Adjusted Streamflow and Storage

Columbia River and Coastal Basins
1928-1989

**ADJUSTED STREAMFLOW
AND
STORAGE

1928-1989**

With Listings of
Historical Streamflow
Summation of Storage Change
and
Adjusted Streamflow

COLUMBIA RIVER AND COASTAL BASINS

prepared for
BONNEVILLE POWER ADMINISTRATION
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PREFACE

This report is the first of a series of reports that describes the development of modified streamflows. It contains listings of historical streamflow, storage changes, and adjusted flow for the period 1928-89.

The basic data were from Earth Info Inc., the U. S. Geological Survey, the Water Resource Branch of Environment Canada, and other sources. The A. G. Crook Company developed computer programs to take streamflow and reservoir elevation data from CD-ROM or computer diskette in ASCII text format to Excel 4.0 spreadsheets where it is processed. The data ultimately is stored in text format on a VAX 8630 and in data base form using system 1032 on the VAX.

This report was prepared by the A.G. Crook Company under contract to the Bonneville Power Administration.

Valuable contributions and suggestions were received from numerous sources. It would be difficult or impossible to give full and impartial credit to the many contributors. However, we particularly wish to acknowledge thanks to BC Hydro & Power Authority, Eugene Water & Electric Board, Puget Sound Power & Light Company, Seattle City Light, PacifiCorp Electric Operations, Washington Public Power Supply System, Tacoma City Light, Portland General Electric, Washington Water Power Company, West Kootenay Power, Ltd., U. S. Bureau of Reclamation, U. S. Army Corps of Engineers and the Bonneville Power Administration.

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I. INTRODUCTION

The development of irrigation projects since the 1830's and the construction of major dams and reservoirs since the early 1900's have altered substantially the natural streamflow regimen of the Columbia River and its tributaries. As development expanded a multipurpose approach to streamflow regulation evolved to provide flood control, irrigation, hydropower generation, navigation, recreation, water quality enhancement, fish and wildlife, and instream flow maintenance. The responsible agencies use computer programs to determine the effects of various alternative system regulations. This report describes the development of the streamflow data that these computer programs use.

Previously the Depletions Task Force of the Columbia River Water Management Group developed the monthly streamflow data for various sites in the Columbia River Basin and coastal tributaries for the 50 year period 1928 to 1978 for the 1980 level of irrigation development. To satisfy the requirements of existing agreements and treaties the Bonneville Power Administration contracted to extend the record to the 61 year period 1928 to 1989 at the 1990 level of irrigation development. The purpose and scope of this study, the definition of terms, and the description of prior studies are summarized below.

- A. Authority and Purpose of Study: The need for an updated study for operational purposes was recognized and the decision was made to undertake the updated study as follows:
 - 1. Collect basic streamflow and storage data; adjust gage/flow to project flow; and accumulate storage change and compute adjusted flow. Streamflow and storage data was computed for two periods for each month.
 - 2. Estimate irrigated area for 1990 irrigation development.
 - 3. Apply monthly diversion and return flow schedules to determine project site adjustments for 1990.
 - 4. Obtain regulation studies on the Upper and Middle Snake, Yakima, and Deschutes river basins.
 - 5. Compute two period per month mean modified flows at existing and selected potential project sites in the Columbia and coastal basins for the 61 year period July 1928 - September 1989 for the 1990 level of irrigation development.
 - 6. Prepare reports describing procedures and presenting the results.

This report addresses the Task described in Paragraph A.1. only. All other tasks are described in companion reports.

- B. Definitions: Modified flow and related components are defined by the Columbia River Water Management Group (CRWVG), as follows:

Streamflow - the rate at which water passes a given point in a stream, usually expressed in cubic feet per second.

Observed Streamflow - is the amount of water that has been historically measured or otherwise determined to have occurred at a specified point in the stream system.

Historical Streamflow - is synonymous with observed streamflow.

Average Streamflow - the average rate of flow at a given point during a specified period.

Natural Streamflow - the rate of flow at a given point of an uncontrolled stream, or streamflow adjusted to eliminate the effects of man made development.

Regulated Streamflow - the controlled rate of flow at a given point due to reservoir regulation or natural lake storage.

Unregulated Streamflow - regulated streamflow adjusted to eliminate the effects of reservoir regulation, but reflecting the effects of natural storage in lakes and river channels.

Adjusted Streamflow - observed streamflow adjusted to eliminate effects of specified controls. Adjusted streamflow as used in this report is further defined in Section II.G.

Diversion Demand - the amount of water withdrawn from surface or groundwater sources.

Return Flow - that portion of the diversion demand that is returned to the stream system and is available for further downstream use.

Streamflow Depletion - that portion of diversion demand that is permanently removed from the stream system.

Modified Streamflow - the observed or historical flow which has been adjusted to a common level of development by correcting for the effects of diversion demand, return flow, and changes in contents of upstream reservoirs and lakes.

C. Prior Studies: An interagency task force was formed by the Columbia Basin Interagency Committee in the early 50's to develop a set of monthly mean modified streamflows for a number of project sites, for two levels of development, for the period July 1928 through June 1948. The two levels of development were those estimated for 1960 and for 2010. These flows were later extended ten years to cover the 30 year period July 1928 through June 1958. A set of data for the 40 year period 1928-68 were compiled by the Depletions Task Force of the Columbia River Water Management Group for the 1970 level of irrigation development and for the projected 2020 level at 167 sites in the Columbia Basin and coastal streams. A third modified flow study was performed by the Depletions Task Force for the 1980 level of development and for the projected 2030 level at 167 sites in the Columbia Basin and coastal streams for a 50-year period (1928 - 1978). These data were made available to federal, state, and local agencies, Canadian agencies, and private utilities for development of operational criteria for the existing system of projects, for the evaluation of potential projects, and for other planning needs.

D. References. A total of thirteen reports were prepared by the Water Management Subcommittee of the Columbia Basin Interagency Committee between 1956 and 1988. Irrigated area, diversion, return flow, and other information on irrigation prior to 1946 are given in a report by W.D. Simons. (14). Additional information is contained in reports by the Pacific Northwest River Basin Commission (15) through (19).

Modified Flows developed by the Depletions Task Force for the 40 year period 1928-68 are given in two provisional reports, one containing data for the 1970 level and one for the 2020 level. Since these data are superseded by the 50 year study these two provisional reports are not referenced.

A study on return flow from the Columbia Basin Project is described in a report by Hanlon (20). Some planning studies utilizing the 40 year flows are contained in a report by the Corps of Engineers (21). A description of procedure used in development of modified flow is given in a paper by Anderson, McLeod, Simons, and Dillard and presented to the ASCE Convention in Atlanta, October 23-25, 1979, (22).

II. DEVELOPMENT OF 61 YEAR RECORD

This 61 year study is a completely independent derivation; not an "add on" to previous work.

A. Computer use. The historical flows, reservoir change-of-contents, adjusted flows, irrigation depletion, reservoir evaporation depletion and modified flows were all developed utilizing 486 IBM-compatible computers. Microsoft EXCEL 4.0 was utilized extensively in developing spread sheet data and in summing data to accumulate irrigation depletion, reservoir change-of-content, and evaporation from upstream locations to downstream locations. Detail on the processing of data through utilization of the 486 IBM-compatible computers is contained in the Technical Appendix.

B. Project identifiers and data type. Each project and project site has been given a three-character identifier. These are the same identifiers used in the Columbia Basin Teletype System (CBTT) for existing projects. For projects and project sites not in the CBTT, three-character identifiers that contain letters in the project name were assigned.

The fourth character in the computer name is the study number. The 40-year study was number "1". The 50-year study was number "2". This study, the 61-year study, is number "3". Special studies may be given other numbers. The fifth and sixth characters of each project identifier defines the type of data. Data types are given below.

<u>ID</u>	<u>DATA TYPES</u>
-----------	-------------------

H	Monthly mean historical streamflow in cubic feet per second.
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S	Monthly storage change, at site, in cubic feet per second.
---	--

F	Monthly storage change, at site, during initial fill, in cubic feet per second.
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- P Monthly mean historical diversion to Banks Lake, (Pumping from FDR), in cubic feet per second.
- SS Summation of monthly storage changes, at site and upstream, in cubic feet per second.
- G Monthly mean historical diversion from Banks Lake to FDR for generation in cubic feet per second.
- A Monthly mean adjusted streamflow (adjusted only for storage changes).

A few examples of full project identifiers are:

- LIB1H - Libby Historical Flow, Study No. 1 (1928 - 1968)
- LIB2H - Libby Historical Flow, Study No. 2 (1928 - 1978)
- LIB3H - Libby Historical Flow, Study No. 3 (1928 - 1989)
- HGH1S - Change in Storage in Hungry Horse Reservoir, Study No. 1
- KER1SS - Summation of Storage Change in Kerr Reservoir, Study No. 1
- TDA2A - The Dalles Dam, Adjusted Flow, Study No. 2 (1928 - 1978)
- TDA3A - The Dalles Dam, Adjusted Flow, Study No. 3 (1928 - 1989)

C. Basic data. Discharge and water surface elevations at gaging stations were obtained from Earth Info, Inc. CD-ROM information service, U.S. Geological Survey's WATSTORE File, from U.S.G.S. Water Supply Papers, from records published by the Water Resources Branch of Environment Canada, and from project owners.

Streamflow data published by the U.S. Geological Survey or obtained from Earth-Info or the WATSTORE File are always identified by an eight digit number. For example the Columbia River at Grand Coulee Dam, Washington, is identified as follows:

U.S.G.S. Number..... 12436500

Grand Coulee Project which is located upstream of the USGS gage was assigned the number 12436100 by the Depletions Task Force.

Streamflow records in Canada are identified by identifier assigned by

Environment Canada. For example, the Columbia River at Birchbank is identified by the seven characters: 08NE049

All U.S.G.S. data and all Canadian data, are as published or as obtained from WATSTORE. No revisions of any kind will be made to any of these basic data unless the revision is approved by the U.S.G.S. or by Environment Canada.

D. Determination of historical streamflow is defined by the CRWMG as the amount of water that has been historically measured or otherwise determined to have occurred at a specified point in the stream system.

In this study the specified points in the stream system are existing projects and selected sites that are utilized to accomplish study objectives. Stream gaging stations may or may not be located at project sites and may or may not cover all of the 61-year period. When the record was missing for all or a part of the 61-year period, the record for the stream gaging site was filled in by correlation with another nearby station or stations. When the gaging site was not at the project location, it was necessary to move the record either up or downstream to the project. To do this, gaging records were generally obtained both up and downstream from the project, and the project flow was determined as the upstream flow plus a portion of the incremental flow of the ungaged portion based on a drainage area ratio. While this was the general case, gaging records were also moved to project site locations by correlations with nearby stations or other adjustments as required on a site-by-site determination. The Technical Appendix to this report contains schematic diagrams for each site illustrating computational procedures for historical streamflow. Computer names, for historical flow data, contain the three character project identifier, the number "3" and the letter "H".

E. Development of flows for two periods per month for each of the twelve months were required. Semimonthly adjusted streamflows for all the twelve months were computed by summing daily flows for the first 15 days of the month and the remaining days of the month to develop split-month historical flow data. This approach of using daily flow data was used whenever daily flow data was available because this computation provided precise period values.

In the instances where daily flows were not available (these instances are documented in the Technical Appendix), the previously derived historical flows for the 2H study (1928 - 1978) were utilized and were transformed into two period flows by utilizing a shape distribution obtained from a nearby station that contained daily flows. This approach was considered the only method available in those instances when prior historical flows were

developed from methods such as graphical correlation.

F. Storage change in lakes and reservoirs was obtained from Earth Info, Inc. CD ROMS, the U.S. Geological Survey, from Environment Canada, and from project owners. These computer names contain the three character project identifier, a "3" for study number three and an "S" for storage. These data from the 61-year study were updated, and in some cases revised. Storage change was computed for two periods for each month. Additional detail on these determinations is contained in the Technical Appendix.

Pondage projects, where the monthly amounts of storage change are insignificant, do not have storage change adjustments. It was necessary, however, to make an adjustment at these sites for the initial or first-time filling of the reservoir from river surface to full pool. This initial fill storage adjustment is identified by an "F". The diversion to Banks Lake by pumping from Franklin D. Roosevelt Lake is included herein as a storage change rather than an irrigation diversion, and is identified by a "P". Diversions from Banks Lake to Franklin D. Roosevelt Lake for generation are identified by a "G".

The summation of all these storage changes at site and upstream from a given site is identified by "SS". The units of storage changes in this study are mean cubic feet per second, so that they may be added directly to streamflow.

G. Adjusted flow is the sum of historical flow and the summation of all storage changes upstream from the project. These flows represent water supply at the given site in the year of occurrence. "Adjusted", or more precisely "adjusted for storage only," streamflows were determined at each of the projects and selected sites for two periods per month of the 61-year period 1928-89. These adjusted flows are basic to development of modified flows in that they will be further adjusted (or modified) for irrigation diversion, evaporation and return flow to a common level of development. Project identifiers for adjusted flows contain the three character project identifier, the number "3" and the letter "A".

III. PRESENTATION OF DATA

This volume contains listings of historical flow, storage change, accumulation of storage change, and adjusted flow for the Columbia River Basin, the Puget Sound Drainage, Coastal Streams in Washington and Oregon, and the Klamath River Basin.

Figure 1 is a schematic diagram of the Columbia River Basin and tributaries showing projects and project sites included in this study.

Figure 2, sheets 1 and 2, is a schematic diagram showing project sites and storage sites used in the development of the adjusted flows. Sheet 1 is for the Upper and Mid Columbia Basin above Priest Rapids. Sheet 2 is the Snake River Basin from Brownlee Dam to Ice Harbor Dam and the Lower Columbia from McNary Dam to Bonneville Dam.

Because of the extensive irrigation in the Upper Snake, the Yakima and the Upper Deschutes River Basins, these basins require special handling. In those basins, a special study is performed to adjust for incremental irrigation practices and to operate the irrigation reservoirs. The regulated outflows from these basins, provided from these special studies, are used as input to the determination of the modified streamflows at downstream sites. Because these special studies are not performed directly as a requirement of this study effort, nor do they use the procedures herein described, historical flows for the individual project sites within these basins are not presented in this report. Only historical outflows from these basins are tabulated. Additional information regarding these regulated study sites is contained in the Technical Appendix.

Table 1 contains all the project identifiers by project site and data type of the data tabulations that are included in this report.

Table 2 gives the computer equations for the computation of the adjusted streamflows of the various project sites.

Table 3 gives the equivalent three-character identifiers, and it indexes (in downstream order) the page numbers for the data at the various projects included in this report.

The data listings are arranged in downstream order and grouped into nine sections comprising subbasins or contiguous areas. These sections are outlined on the map, (Figure 1), and the sections are separated by a colored fly-leaf.

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- (14) Simons, W. D., "Irrigation and Streamflow Depletion in Columbia River Basin Above the Dalles, Oregon," U.S. Geological Survey Water Supply Paper 1220, 1953.
- (15) Pacific Northwest River Basins Commission. "Columbia-North Pacific Region Comprehensive Framework Study of Water and Related Lands," Appendix IX, "Irrigation," February, 1971.
- (16) Pacific Northwest River Basins Commission. "Columbia-North Pacific Region Comprehensive Framework Study," Appendix VIII (Preliminary), "Land Measures and Watershed Protection," October, 1969 (2 volumes).
- (17) Pacific Northwest River Basins Commission. "Columbia-North Pacific Region Comprehensive Framework Study," Appendix XVI, "Comprehensive Framework Plans," June, 1972.
- (18) Pacific Northwest River Basins Commission. "Irrigated Lands in the Pacific Northwest, 1980," July 1981.
- (19) Pacific Northwest River Basins Commission. "Projections of Irrigated land in the Pacific Northwest 2020/2030," September 1981.
- (20) Hanlon, D. W., "Columbia Basin Project Return Flow Study, 1970 and 2020 Levels of Development." U.S. Department of the Interior, Bonneville Power Administration, July, 1973.
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**SCHEMATIC DIAGRAM
COLUMBIA RIVER and TRIBUTARIES
ABOVE PRIEST RAPIDS**

FIGURE 2

**SCHEMATIC DIAGRAM
COLUMBIA RIVER and TRIBUTARIES
PRIEST RAPIDS to BONNEVILLE**

FIGURE 2

TABLE 1
STREAMFLOW AND STORAGE DATA IDENTIFIERS

<u>SITE</u>	<u>HISTORICAL SITE IDENTIFIER</u>	<u>CHANGE OF CONTENT IDENTIFIER</u>	<u>ACCUMULATED CHANGE OF CONTENT IDENTIFIER</u>	<u>ADJUSTED FLOW IDENTIFIER</u>
<u>UPPER COLUMBIA</u>				
Mica	MCD3H	MCD3S		MCD3A
Revelstoke	RVC3H	RVC3S	RVC3SS	RVC3A
Upper Arrow		UPA3S	UPA3SS	
Lower Arrow		LOA3S	LOA3SS	
Hugh Keenleyside	ARD3H	ARD3S	ARD3SS	ARD3A
<u>KOOTENAY</u>				
Libby	LIB3H	LIB3S		LIB3A
Bonnars Ferry	BFE3H			BFE3A
Duncan	DCD3H	DCD3S		DCD3A
Kootenay Lake		KOO3S	KOO3SS	
Corra Linn	COR3H			COR3A
Brilliant	BRI3H			BRI3A
Murphy Creek	MUC3H		MUC3SS	MUC3A
<u>PEND OREILLE</u>				
Hungry Horse	HGH3H	HGH3S		HGH3A
Columbia Falls	CFM3H			CFM3A
Kerr (Flathead Lake)	KER3H	KER3S	KER3SS	KER3A
Thompson Falls	TOM3H			TOM3A
Noxon Rapids	NOX3H	NOX3S	NOX3SS	NOX3A
Cabinet Gorge	CAB3H	CAB3F	CAB3SS	CAB3A
Priest Lake	PSL3H	PSL3S		PSL3A
Albeni Falls	ALF3H	ALF3S	ALF3SS	ALF3A
Box Canyon	BOX3H	BOX3F	BOX3SS	BOX3A
Boundary	BDY3H	BDY3F	BDY3SS	BDY3A
Seven Mile	SEV3H	SEV3F	SEV3SS	SEV3A
Waneta	WAT3H	WAT3F	WAT3SS	WAT3A
<u>SPOKANE</u>				
Coeur d'Alene Lake	COE3H	COE3S		COE3A
Upper Falls	UPF3H			UPF3A
Nine Mile	NIN3H			NIN3A
Long Lake	LLK3H	LLK3S	LLK3SS	LLK3A

TABLE 1
STREAMFLOW AND STORAGE DATA IDENTIFIERS
cont'd

<u>SITE</u>	<u>HISTORICAL SITE IDENTIFIER</u>	<u>CHANGE OF CONTENT IDENTIFIER</u>	<u>ACCUMULATED CHANGE OF CONTENT IDENTIFIER</u>	<u>ADJUSTED FLOW IDENTIFIER</u>
<u>MID COLUMBIA</u>				
Grand Coulee	GCL3H	GCL3S	GCL3SS	GCL3A
Grand Coulee Pumping		FDR3P		
Grand Coulee Generation		FDR3G		
Chief Joseph	CHJ3H	CHJ3S	CHJ3SS	CHJ3A
Wells	WEL3H	WEL3F	WEL3SS	WEL3A
Chelan	CHL3H	CHL3S		CHL3A
Rocky Reach	RRH3H	RRH3F	RRH3SS	RRH3A
Rock Island	RIS3H			RIS3A
Wanapum		WAN3F	WAN3SS	
Priest Rapids	PRD3H	PRD3F	PRD3SS	PRD3A
Yakima	YAK3H			
<u>SNAKE RIVER</u>				
Galloway	GAL3H			GAL3A
Brownlee	BRN3H	BRN3S		BRN3A
Hells Canyon	HCD3H	HCD3F	HCD3SS	HCD3A
Whitebird	WHB3H			
Lime Point	LIM3H			LIM3A
Troy (Grand Ronde)	TRY3H			
Anatone	ANA3H			ANA3A
Orofino	ORO3H			
Dworshak	DWR3H	DWR3S		DWR3A
Spalding	SPD3H			SPD3A
Lower Granite	LWG3H	LWG3F	LWG3SS	LWG3A
Little Goose	LGS3H	LGS3F	LGS3SS	LGS3A
Lower Monumental	LMN3H	LMN3F	LMN3SS	LMN3A
Ice Harbor	IHR3H	IHR3F	IHR3SS	IHR3A
<u>LOWER COLUMBIA</u>				
McNary	MCN3H	MCN3F	MCN3SS	MCN3A
John Day	JDA3H	JDA3S	JDA3SS	JDA3A
Round Butte	ROU3H	ROU3S		ROU3A
Pelton	PEL3H	PEL3F	PEL3SS	
The Dalles	TDA3H	TDA3F	TDA3SS	TDA3A
Bonneville	BON3H			BON3A
<u>WILLAMETTE</u>				
Hills Creek	HCR3H	HCR3S		HCR3A
Lookout Point		LOP3S		LOP3A
Dexter	DEX3H	DEX3F	DEX3SS	DEX3A
Fall Creek	FAL3H	FAL3S		FAL3A
Cottage Grove	COT3H	COT3S		COT3A

TABLE 1
STREAMFLOW AND STORAGE DATA IDENTIFIERS
cont'd

<u>SITE</u>	<u>HISTORICAL SITE IDENTIFIER</u>	<u>CHANGE OF CONTENT IDENTIFIER</u>	<u>ACCUMULATED CHANGE OF CONTENT IDENTIFIER</u>	<u>ADJUSTED FLOW IDENTIFIER</u>
Dorena	DOR3H	DOR3S		DOR3A
Eugene			EUG3SS	
Carman	CAR3H			
Smith Inflow		SMH3S		SMH3A
Trail Bridge	TRB3H			TRB3A
Cougar	CGR3H	CGR3S		CGR3A
Blue River	BLU3H	BLU3S		BLU3A
Leaburg	LEA3H		LEA3SS	LEA3A
Walterville	WAV3H			WAV3A
Fern Ridge	FRN3H	FRN3S		FRN3A
Albany			ALB3SS	
Detroit		DET3S		DET3A
Big Cliff	BCL3H	BCL3F	BCL3SS	BCL3A
Green Peter	GPR3H	GPR3S		GPR3A
Foster	FOS3H	FOS3S	FOS3SS	FOS3A
Salem			SLM3SS	
T.W.Sullivan	SVN3H			SVN3A
<u>CLACKAMAS</u>				
Timothy Meadows	TMY3H	TMY3S		TMY3A
Oak Grove	OAK3H			OAK3A
North Fork	NFK3H	NFK3S	NFK3SS	NFK3A
<u>LEWIS</u>				
Swift		SWF3S		SWF3A
Yale		YAL3S	YAL3SS	YAL3A
Merwin	MER3H	MER3S	MER3SS	MER3A
<u>COWLITZ</u>				
Packwood	PAK3H	PAK3S		PAK3A
Mossyrock		MOS3S	MOS3SS	MOS3A
Mayfield	MAY3H	MAY3S	MAY3SS	MAY3A
<u>PUGET SOUND</u>				
Cushman 1		CS13S		CS13A
Cushman 2				CS23A
Alder		ALD3S		ALD3A
LaGrande	LAG3H			LAG3A
White River				WHI3A
Ross				ROS3A
Diablo				DIA3A

TABLE 1
STREAMFLOW AND STORAGE DATA IDENTIFIERS
 cont'd

<u>SITE</u>	<u>HISTORICAL SITE IDENTIFIER</u>	<u>CHANGE OF CONTENT IDENTIFIER</u>	<u>ACCUMULATED CHANGE OF CONTENT IDENTIFIER</u>	<u>ADJUSTED FLOW IDENTIFIER</u>
Gorge				GOR3A
Upper Baker				UBK3A
Lower Baker				SHA3A
<u>ROGUE</u>				
Lost Creek	LOS3H	LOS3S		LOS3A
<u>KLAMATH</u>				
Link River	LNK3H			LNK3A
"A" Canal	ACL3H			
Klamath Lake		KLA3S		KLA3A
John C. Boyle	JCB3H	JCB3S	JCB3SS	JCB3A
Copco	CPC3H	CPC3S	CPC3SS	CPC3A
Iron Gate	IRG3H	IRG3S	IRG3SS	IRG3A

TABLE 2
EQUATIONS FOR COMPUTATION OF STORAGE CHANGE
AND ADJUSTED STREAMFLOW

ACCUMULATED CHANGE OF STORAGE

$RVC3SS = MCD3S + RVC3S$
 $LOA3SS = UPA3S + LOA3S$
 $ARD3SS = LOA3SS + RVC3SS + ARD3S$
 $KOO3SS = KOO3S + DCD3S + LIB3S$
 $MUC3SS = KOO3SS + ARD3SS$
 $KER3SS = HGH3S + KER3S$
 $NOX3SS = KER3SS + NOX3S$
 $CAB3SS = NOX3SS + CAB3F$
 $ALF3SS = CAB3SS + ALF3S + PSL3S$
 $BOX3SS = ALF3SS + BOX3F$
 $BDY3SS = BOX3SS + BDY3F$
 $SEV3SS = SEV3F + BDY3SS$
 $WAT3SS = BDY3SS + WAT3F$
 $LLK3SS = LLK3S + COE3S$
 $GCL3SS = LLK3SS + WAT3SS + MUC3SS + GCL3S + FDR3P + FDR3G$
 $CHJ3SS = GCL3SS + CHJ3S$
 $WEL3SS = CHJ3SS + WEL3F$
 $RRH3SS = WEL3SS + RRH3F + CHL3S$
 $WAN3SS = RRH3SS + WAN3F$
 $PRD3SS = WAN3SS + PRD3F$
 $HCD3SS = BRN3S + HCD3F$
 $LWG3SS = HCD3SS + DWR3S + LWG3F$
 $LGS3SS = LWG3SS + LGS3F$
 $LMN3SS = LGS3SS + LMN3F$
 $IHR3SS = LMN3SS + IHR3F$
 $MCN3SS = PRD3SS + IHR3SS + MCN3F$
 $JDA3SS = MCN3SS + JDA3S$
 $PEL3SS = ROU3S + PEL3F$
 $TDA3SS = JDA3SS + PEL3SS + TDA3F$
 $DEX3SS = LOP3S + HCR3S + DEX3F$
 $EUG3SS = DEX3SS + FAL3S + DOR3S + COT3S$
 $LEA3SS = SMH3S + CGR3S + BLU3S$
 $ALB3SS = EUG3SS + LEA3SS + FRN3S$
 $BCL3SS = DET3S + BCL3F$
 $FOS3SS = GPR3S + FOS3S$
 $SLM3SS = ALB3SS + BCL3SS + FOS3SS$
 $NFK3SS = TMY3S + NFK3S$
 $YAL3SS = YAL3S + SWF3S$
 $MER3SS = MER3S + YAL3SS$
 $MOS3SS = MOS3S + PAK3S$
 $MAY3SS = MOS3SS + MAY3S$
 $JCB3SS = KLA3S + JCB3S$
 $CPC3SS = JCB3SS + CPC3S$
 $IRG3SS = CPC3SS + IRG3S$

TABLE 2
EQUATIONS FOR COMPUTATION OF STORAGE CHANGE
AND ADJUSTED STREAMFLOW

ADJUSTED FLOW CALCULATIONS

Upper Columbia

$$\begin{aligned} \text{MCD3A} &= \text{MCD3H} + \text{MCD3S} \\ \text{RVC3A} &= \text{RVC3H} + \text{RVC3SS} \\ \text{ARD3A} &= \text{ARD3H} + \text{ARD3SS} \end{aligned}$$

Kootenay

$$\begin{aligned} \text{LIB3A} &= \text{LIB3H} + \text{LIB3S} \\ \text{BFE3A} &= \text{BFE3H} + \text{LIB3S} \\ \text{DCD3A} &= \text{DCD3H} + \text{DCD3S} \\ \text{COR3A} &= \text{COR3H} + \text{KOO3SS} \\ \text{BRI3A} &= \text{BRI3H} + \text{KOO3SS} \end{aligned}$$

Columbia

$$\text{MUC3A} = \text{MUC3H} + \text{MUC3SS}$$

Flathead

$$\begin{aligned} \text{HGH3A} &= \text{HGH3H} + \text{HGH3S} \\ \text{CFM3A} &= \text{CFM3H} + \text{HGH3S} \\ \text{KER3A} &= \text{KER3H} + \text{KER3SS} \end{aligned}$$

Clark Fork

$$\begin{aligned} \text{TOM3A} &= \text{TOM3H} + \text{KER3SS} \\ \text{NOX3A} &= \text{NOX3H} + \text{NOX3SS} \\ \text{CAB3A} &= \text{CAB3H} + \text{CAB3SS} \\ \text{PSL3A} &= \text{PSL3H} + \text{PSL3S} \\ \text{ALF3A} &= \text{ALF3H} + \text{ALF3SS} \\ \text{BOX3A} &= \text{BOX3H} + \text{BOX3SS} \\ \text{BDY3A} &= \text{BDY3H} + \text{BDY3SS} \\ \text{SEV3A} &= \text{SEV3H} + \text{SEV3SS} \\ \text{WAT3A} &= \text{WAT3H} = \text{WAT3SS} \end{aligned}$$

Spokane

$$\begin{aligned} \text{COE3A} &= \text{COE3H} + \text{COE3S} \\ \text{UPF3A} &= \text{UPF3H} + \text{COE3S} \\ \text{NIN3A} &= \text{NIN3H} + \text{COE3S} \\ \text{LLK3A} &= \text{LLK3H} + \text{LLK3SS} \end{aligned}$$

Mid Columbia

$$\begin{aligned} \text{GCL3A} &= \text{GCL3H} + \text{GCL3SS} \\ \text{CHJ3A} &= \text{CHJ3H} + \text{CHJ3SS} \\ \text{WEL3A} &= \text{WEL3H} + \text{WEL3SS} \\ \text{CHL3A} &= \text{CHL3H} + \text{CHL3S} \\ \text{RRH3A} &= \text{RRH3H} + \text{RRH3SS} \\ \text{RIS3A} &= \text{RIS3H} + \text{RRH3SS} \\ \text{PRD3A} &= \text{PRD3H} + \text{PRD3SS} \end{aligned}$$

Snake, Clearwater

$$\begin{aligned} \text{BRN3A} &= \text{BRN3H} + \text{BRN3S} \\ \text{HCD3A} &= \text{HCD3H} + \text{HCD3SS} \\ \text{LIM3A} &= \text{LIM3H} + \text{HCD3SS} \\ \text{ANA3A} &= \text{ANA3H} + \text{HCD3SS} \\ \text{DWR3A} &= \text{DWR3H} + \text{DWR3S} \end{aligned}$$

ADJUSTED FLOW CALCULATIONS
cont'd

SPD3A = SPD3H + DWR3S
LWG3A = LWG3H + LWG3SS
LGS3A = LWG3H + LGS3SS
LMN3A = LMN3H + LMN3SS
IHR3A = LMN3H + IHR3SS

Lower Columbia

MCN3A = MCN3H + MCN3SS
JDA3A = JDA3H + JDA3SS
ROU3A = PEL3H + PEL3SS
TDA3A = TDA3H + TDA3SS
BON3A = BON3H + TDA3SS

Willamette

HCR3A = HCR3H + HCR3S
DEX3A = DEX3H + DEX3SS
DOR3A = DOR3H + DOR3S
FRN3A = FRN3H + FRN3S
COT3A = COT3H + COT3S
FAL3A = FAL3H + FAL3S
TRB3A = TRB3H + SMH3S
CGR3A = CGR3H + CGR3S
BLU3A = BLU3H + BLU3S
LEA3A = LEA3H + LEA3SS
WAV3A = WAV3H + LEA3SS
BCL3A = BCL3H + BCL3SS
GPR3A = GPR3H + GPR3S
FOS3A = FOS3H + FOS3SS
SVN3A = SVN3H + SLM3SS

Clackamas

TMY3A = TMY3H + TMY3S
OAK3A = OAK3H + TMY3S
NFK3A = NFK3H + NFK3SS

Lewis

SWF3A (furnished by PacifiCorp)
YAL3A (furnished by PacifiCorp)
MER3A = MER3H + MER3SS

Cowlitz

PAK3A = PAK3H + PAK3S
MOS3A = MOS3H + MOS3SS
MAY3A = MAY3H + MAY3SS

Skagit

ROS3A (furnished by Seattle City Light)
DIA3A (furnished by Seattle City Light)
GOR3A (furnished by Seattle City Light)
UBK3A = UBK3H + UBK3S (furnished by Puget Sound Power & Light)
SHA3A = SHA3H + SHA3SS (furnished by Puget Sound Power & Light)

Puget Sound

CS13A (furnished by Tacoma City Light)
CS23A (furnished by Tacoma City Light)
WHI3A (furnished by Puget Sound Power and Light)
LAG3A = LAG3H + ALD3S

WA/OR Coast

LOS3A = LOS3H + LOS3S

ADJUSTED FLOW CALCULATIONS
cont'd

Klamath

$$\begin{aligned} \text{KLA3A} &= \text{LNK3H} + \text{ACL3H} + \text{KLA3S} \\ \text{JCB3A} &= \text{JCB3H} + \text{JCB3SS} + \text{ACL3H} \\ \text{CPC3A} &= \text{CPC3H} + \text{CPC3SS} + \text{ACL3H} \\ \text{IRG3A} &= \text{IRG3H} + \text{IRG3SS} + \text{ACL3H} \end{aligned}$$

TABLE 3
INDEX TO DATA CONTAINED IN THIS REPORT

			PAGE NUMBER			
	<u>SITE</u>	<u>STREAM</u>	<u>HISTORICAL FLOW</u>	<u>CHANGE OF CONTENT</u>	<u>ACCUMULATED CHANGE OF CONTENT</u>	<u>ADJ. FLOW</u>
MCD	Mica	Upper Columbia	29	30		31
RVC	Revelstoke	Upper Columbia	32	33	34	35
UPA	Upper Arrow	Upper Columbia		36		
LOA	Lower Arrow	Upper Columbia		37	38	
ARD	Hugh Keenleyside	Upper Columbia	39	40	41	42
LIB	Libby	Kootenay	43	44		45
BFE	Bonnors Ferry	Kootenay	46			47
DCD	Duncan	Kootenay	48	49		50
KOO	Kootenay Lake	Kootenay		51	52	
COR	Corra Linn	Kootenay	53			54
BRI	Brilliant	Kootenay	55			56
MUC	Murphy Creek	Columbia	57		58	59
HGH	Hungry Horse	Pend Oreille	63	64		65
CFM	Columbia Falls	Pend Oreille	66			67
KER	Kerr	Pend Oreille	68	69	70	71
TOM	Thompson Falls	Pend Oreille	72			73
NOX	Noxon Rapids	Pend Oreille	74	75	76	77
CAB	Cabinet Gorge	Pend Oreille	78	79	80	81
PSL	Priest Lake	Pend Oreille	82	83		84
ALF	Albeni Falls	Pend Oreille	85	86	87	88
BOX	Box Canyon	Pend Oreille	89	90	91	92
BDY	Boundary	Pend Oreille	93	94	95	96
SEV	Seven Mile	Pend Oreille	97	98	99	100
WAT	Waneta	Pend Oreille	101	102	103	104
COE	Coeur d'Alene Lake	Spokane	105	106		107
UPF	Upper Falls	Spokane	108			109
NIN	Nine Mile	Spokane	110			111
LLK	Long Lake	Spokane	112	113	114	115
GCL	Grand Coulee	Mid Columbia	119	120	123	124
CHF	Chief Joseph	Mid Columbia	125	126	127	128
WEL	Wells	Mid Columbia	129	130	131	132
CHL	Chelan	Mid Columbia	133	134		135
RRH	Rocky Reach	Mid Columbia	136	137	138	139
RIS	Rock Island	Mid Columbia	140			141
WAN	Wanapum	Mid Columbia		142	143	
PRD	Priest Rapids	Mid Columbia	144	145	146	147
YAK	Yakima	Mid Columbia	148			
GAL	Galloway	Wieser	151			152
BRN	Brownlee	Spokane	153	154		155
HCD	Hells Canyon	Spokane	156	157	158	159
WHB	Whitebird	Salmon	160			

TABLE 3
INDEX TO DATA CONTAINED IN THIS REPORT
cont'd.

				PAGE NUMBER		
<u>I.D.</u>	<u>SITE</u>	<u>STREAM</u>	<u>HISTORICAL FLOW</u>	<u>CHANGE OF CONTENT</u>	<u>ACCUMULATED CHANGE OF CONTENT</u>	<u>ADJ. FLOW</u>
LIM	Lime Point	Snake	161			162
TRY	Troy	Grand Ronde	163			
ANA	Anatone	Snake	164			165
ORO	Orofino	Clearwater	166			
DWR	Dworshak	Clearwater	167	168		169
SPD	Spalding	Clearwater	170			171
LWG	Lower Granite	Lower Snake	172	173	174	175
LGS	Little Goose	Lower Snake	176	177	178	179
LMN	Lower Monumental	Lower Snake	180	181	182	183
IHR	Ice Harbor	Lower Snake	184	185	186	187
MCN	McNary	Lower Columbia	191	192	193	194
JDA	John Day	Lower Columbia	195	196	197	198
ROU	Round Butte	Lower Columbia		200		203
PEL	Pelton	Lower Columbia	199	201	202	
TDA	The Dalles	Lower Columbia	204	205	206	207
BON	Bonneville	Lower Columbia	208			209
HCR	Hills Creek	M. Fk. Willamette	213	214		215
LOP	Lookout Point	M. Fk. Willamette		216		220
DEX	Dexter	M. Fk. Willamette	217	218	219	221
FAL	Fall Creek	M. Fk. Willamette	222	223		224
COT	Cottage Grove	C. Fk. Willamette	225	226		227
DOR	Dorena	Row	228	229		230
EUG	Eugene	Willamette		231		
CAR	Carman	Carman Smith	232			
SMH	Smith Inflow	Smith River		233		234
TRB	Trail Bridge	McKenzie	235			236
CGR	Cougar	McKenzie	237	238		239
BLU	Blue River	McKenzie	240	241		242
LEA	Leaburg	McKenzie	243		244	245
WAV	Walterville	McKenzie	246			247
FRN	Fern Ridge	Long Tom River	248	249		250
ALB	Albany	Willamette		251		
DET	Detroit	North Santiam		252		256
BCL	Big Cliff	North Santiam	253	254	255	257
GPR	Green Peter	South Santiam	258	259		260
FOS	Foster	South Santiam	261	262	263	264
SAL	Salem	Willamette		265		
SVN	T. W. Sullivan	Willamette	266			267
TMY	Timothy Meadows	Clackamas	268	269		270
OAK	Oak Grove	Clackamas	271			272
NFK	North Fork	Clackamas	273	274	275	276
SWF	Swift	Lewis		279		280
YAL	Yale	Lewis		281	282	283
MER	Merwin	Lewis	284	285	286	287

TABLE 3
INDEX TO DATA CONTAINED IN THIS REPORT
cont'd.

<u>I.D.</u>	<u>SITE</u>	<u>STREAM</u>	<u>PAGE NUMBER</u>			
			<u>HISTORICAL</u> <u>FLOW</u>	<u>CHANGE OF</u> <u>CONTENT</u>	<u>ACCUMULATED</u> <u>CHANGE OF</u> <u>CONTENT</u>	<u>ADJ.</u> <u>FLOW</u>
PAK	Packwood	Cowlitz	288	289		290
MOS	Mossyrock	Cowlitz		291	292	293
MAY	Mayfield	Cowlitz	294	295	296	297
CS1	Cushman 1	Skokomish		298		299
CS2	Cushman 2	Skokomish				300
ALD	Alder	Nisqually		301		303
LAG	LaGrande	Nisqually	302			304
WHI	White River	White				305
ROS	Ross	Skagit				306
DIA	Diablo	Skagit				307
GOR	Gorge	Skagit				308
UBK	Upper Baker	Baker				309
SHA	Lower Baker	Baker				310
LOS	Lost Creek	Rogue	313	314		315
KLA	Upper Klamath Lake	Klamath		318		319
LNK	Link River	Klamath	316			320
ACL	"A" Canal	Klamath	317			
JCB	John C. Boyle	Klamath	321	322	323	324
CPC	Copco No. 1 & 2	Klamath	325	326	327	328
IRG	Iron Gate	Klamath	329	330	331	332

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COLUMBIA RIVER IN BRITISH COLUMBIA

**MICA
REVELSTOKE
HUGH KEENLEYSIDE
MURPHY CREEK**

KOOTENAI RIVER IN MONTANA AND IDAHO

**LIBBY
BONNER'S FERRY**

KOOTENAY RIVER IN BRITISH COLUMBIA

**DUNCAN
CORRA LINN
BRILLIANT**

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USGS # 12227100 MICA
Monthly mean historical streamflow in cfs.

River: COLUMBIA

Drainage Area: 8290 Sq. Mi.
River Mile: 1018.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										62900	41760	19430	
1928-29	7932	4895	4408	3780	3190	3140	2959	17750	57700	44770	39500	22930	17820
1929-30	8324	<u>4006</u>	3560	2553	2722	3993	13340	23870	57780	63210	45620	23230	21130
1930-31	8771	5167	3526	2828	2587	3215	5946	27960	59960	56200	39190	25620	20180
1931-32	11120	8101	4721	3197	2682	3344	8296	32110	68720	55510	45060	19610	21930
1932-33	10730	7072	5216	4273	3407	3287	5518	25630	62370	72300	48720	22640	22730
1933-34	12410	9129	5363	4925	3116	3958	21720	52310	61930	56260	40800	20480	24500
1934-35	12070	8887	5060	3637	3885	3882	4531	22400	58800	70640	39620	22760	21460
1935-36	10450	5723	4290	3764	3324	3264	10750	41540	60690	51930	41350	20710	21550
1936-37	10280	5173	3722	3103	2648	2793	5498	19300	47120	52890	34790	22990	17620
1937-38	12070	9250	5476	3637	2814	3420	7499	29010	61060	56950	32190	26850	20940
1938-39	11740	5899	5060	5103	3083	4096	9901	42180	43990	56470	42400	21420	21100
1939-40	11960	8282	6638	4004	3560	3949	9642	34860	56680	59840	36650	25740	21880
1940-41	18390	6891	5025	3505	3324	3802	13540	27180	48070	53170	38880	20420	20300
1941-42	13800	8101	5976	3622	3028	2838	6654	26830	46900	60670	43210	18730	20170
1942-43	10840	5246	3977	2859	2949	2966	13210	19090	38880	62870	41100	18320	18650
1943-44	11060	5191	3237	2675	3051	2873	6271	24020	48580	42430	36900	24570	17610
1944-45	12690	7859	4560	3805	3662	3424	3556	21690	47490	48760	35040	18260	17660
1945-46	9107	4816	3683	2675	2685	3015	6784	44080	65660	58810	39310	21070	21930
1946-47	8547	4895	4721	4441	3760	3678	10290	37950	60520	59190	32670	21010	21060
1947-48	15840	7822	4925	3860	3086	2840	5557	38860	81020	46730	41670	21740	22870
1948-49	11450	6888	4094	2805	2395	2828	6992	33310	38880	37230	32360	17210	16470
1949-50	7969	6207	4023	<u>2436</u>	2362	2927	4733	17590	66340	73230	39620	23050	20980
1950-51	9668	6192	4662	4009	3541	3495	6715	36310	47410	68000	37200	16600	20470
1951-52	10470	5294	3246	2673	2556	2642	8390	33930	52480	53490	37540	17000	19210
1952-53	10240	4457	3200	3145	3032	2987	3978	25480	52880	55250	38090	20810	18740
1953-54	12570	8749	4865	3624	3811	3449	4039	28140	59610	<u>81550</u>	49200	28800	24190
1954-55	11740	9187	6143	4100	3597	3481	4815	14610	58630	69830	38420	21170	20580
1955-56	8998	5500	4411	3651	2688	3032	8472	34880	64980	56550	37810	19440	20930
1956-57	10980	5717	4201	3297	3339	3392	5690	<u>52930</u>	55940	43760	27960	19290	19820
1957-58	10260	5533	4032	3737	3559	3604	6171	41640	68150	47410	38010	19400	21060
1958-59	11760	5921	4644	4046	3451	3185	6235	26690	61160	69020	37050	26440	21750
1959-60	13350	8026	6016	4220	3853	3899	9024	17890	47920	68190	38070	21170	20210
1960-61	12300	7861	4545	4313	3892	3884	6270	35460	84130	49970	40930	17740	22690
1961-62	12700	6197	4597	3623	4120	3121	9479	24410	52640	54500	42010	18780	19790
1962-63	10940	8527	5462	4388	4954	4625	8806	25070	58400	54510	39920	27120	21140
1963-64	12520	6565	4619	3961	3355	2966	5236	18270	61110	66260	35400	19060	20000
1964-65	15020	8731	4809	4090	3934	3536	8468	23720	55680	59530	49050	14890	21090
1965-66	12450	9364	5841	4308	4216	4507	10770	32190	55390	62310	41740	23140	22310
1966-67	12830	7613	5379	4436	3982	3546	5342	23520	87590	75900	47920	29460	<u>25730</u>
1967-68	13430	8108	4112	3934	4043	4565	4778	24570	59660	69960	39150	24280	21790
1968-69	11520	7460	4594	2799	3081	3418	11130	36620	70270	46810	34380	20290	21110
1969-70	11600	7181	4195	3397	3395	3002	4117	18730	60010	49840	36320	14930	18140
1970-71	7965	4116	3038	3127	3285	2835	6261	34900	59550	50130	47460	20600	20390
1971-72	10720	5798	3065	2772	2713	3754	6028	35790	<u>90220</u>	61020	47710	19280	24120
1972-73	10530	5936	4306	3528	3176	3217	1161	<u>308</u>	10630	32390	30980	32440	11610
1973-74	<u>29800</u>	26000	<u>846</u>	2594	<u>630</u>	<u>985</u>	<u>850</u>	736	1153	<u>1424</u>	28490	<u>32920</u>	<u>10570</u>
1974-75	26400	17250	23230	21790	22190	13680	<u>30360</u>	467	848	7932	27640	20670	17670
1975-76	<u>6516</u>	13240	5197	4077	3698	3839	12360	3864	10830	30160	<u>55320</u>	32120	15140
1976-77	16890	13390	19910	20410	18150	21540	28230	19530	24490	20470	24990	22430	20880
1977-78	19030	16580	19430	17530	18720	13070	9287	1757	9984	12070	28870	27730	16150
1978-79	16040	19140	33030	26700	20700	19230	19680	6634	13210	23330	37900	20760	21400
1979-80	23690	15460	15710	18130	23670	22970	12380	694	7145	21010	21520	22160	17040
1980-81	9651	12750	21280	28310	31480	19780	14890	11730	10790	15670	48520	26060	20880
1981-82	13190	13450	22320	23830	17250	18360	12330	14540	12730	37930	33920	29740	20870
1982-83	12850	12120	14260	23020	24380	25160	19610	9363	8047	22390	35380	21950	19040
1983-84	26000	24500	<u>33030</u>	28390	22050	23770	10620	1992	<u>54</u>	6484	24070	22170	18620
1984-85	19690	13090	20720	26210	<u>38850</u>	<u>33280</u>	9890	7301	3374	23710	30350	13590	19960
1985-86	10380	19490	28580	22440	18420	5051	3089	3700	13700	26270	40070	26890	18200
1986-87	10470	16230	25880	30390	33660	24740	15160	1660	9209	24610	37450	23700	21050
1987-88	16730	<u>28180</u>	26830	24120	25100	23030	9856	4954	6550	22710	33270	22890	20360
1988-89	14780	16190	30870	<u>33240</u>	34450	19590	7922	1052	6411	18970	<u>13740</u>	<u>9730</u>	17180
MEAN	12860	9515	8957	8424	8234	7242	9034	22880	45120	47810	37780	22040	20040
MEDIAN	11740	7859	4809	3934	3541	3536	7922	24020	55390	53330	38080	21300	20580

MCD3H

USGS # 12227100 MICA
Monthly mean storage change, at site, in cfs.

River: COLUMBIA

Drainage Area: 8290 Sq. Mi.
River Mile: 1018.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	0	0	0	0
1968-69	0	0	0	0	0	0	0	0	0	0	0	0	0
1969-70	0	0	0	0	0	0	0	0	0	0	0	0	0
1970-71	0	0	0	0	0	0	0	0	0	0	0	0	0
1971-72	0	0	0	0	0	0	0	0	0	0	0	0	0
1972-73	0	0	0	0	4	322	4466	25140	38100	17070	4829	-14006	6370
1973-74	-18303	-16500	3381	1078	2827	2165	7176	19550	67800	61860	15960	-4847	11886
1974-75	-15600	-11263	-18257	-18228	-18656	-11430	-23797	18563	43742	52824	7428	-2268	396
1975-76	4514	-1590	178	96	-15	-781	-4176	31194	34174	41073	2105	232	8985
1976-77	-5180	-7332	-15421	-16007	-14838	-17126	-19946	3266	24831	19497	14732	-6196	-3228
1977-78	-11832	-11459	-15092	-13824	-15687	-9506	-1658	17317	42070	48308	6970	695	3131
1978-79	-3320	-9663	-27873	-23360	-16934	-15159	-13733	15115	35074	29369	-1889	555	-2597
1979-80	-13810	-11520	-11655	-14509	-20623	-19735	-637	44893	43569	20892	5618	-4917	1528
1980-81	2315	-6263	-15203	-24063	-27827	-15241	-7177	25569	30985	43259	497	-3761	453
1981-82	-4848	-5413	-17889	-19711	-13323	-14837	-7954	6757	56234	22970	2295	-2265	170
1982-83	-1536	-5677	-10057	-18636	-20626	-20750	-12214	16822	41367	31763	3906	-3841	160
1983-84	-16732	-14827	-28823	-23082	-17999	-19762	-3490	9427	49665	48292	17197	-2370	-193
1984-85	-9463	-7540	-16432	-22644	-34529	-30733	-3054	25384	43014	25493	-1855	-416	-2587
1985-86	-1831	-14246	-24891	-18840	-14894	-671	4476	23327	59453	24890	-2860	-10658	1991
1986-87	-1985	-10481	-20946	-27470	-30046	-19589	-5773	36650	49450	21305	-9505	-4131	-1745
1987-88	-9883	-23276	-23064	-20847	-20907	-19451	1814	23443	49993	22343	964	-5196	-1988
1988-89	-3509	-8759	-26026	-28450	-30188	-16278	-29	26060	48059	28135	25157	6678	1893
MEAN	-6938	-10363	-16754	-18031	-17309	-13445	-5042	21680	44550	32900	5385	-3336	1448

MCD3S

USGS # 12227100

MICA

River: COLUMBIA

Drainage Area: 8290 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cubic feet per second

River Mile: 1018.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										62900	41760	19430	
1928-29	7932	4895	4408	3780	3190	3140	<u>2959</u>	17750	57700	44770	39500	22930	17820
1929-30	8324	4006	3560	2553	2722	3993	13340	23870	57780	63210	45620	23230	21130
1930-31	8771	5167	3526	2828	2587	3215	5948	27960	59960	56200	39190	25620	20180
1931-32	11120	8101	4721	3197	2682	3344	8296	32110	68720	55510	45060	19610	21930
1932-33	10730	7072	5216	4273	3407	3287	5518	25630	62370	72300	48720	22640	22730
1933-34	12410	9129	5363	4925	3116	3958	<u>21720</u>	52310	61930	58260	40800	20480	24500
1934-35	12070	8887	5060	3637	3885	3882	4531	22400	58800	70640	39620	22760	21460
1935-36	10450	5723	4290	3764	3324	3264	10750	41540	60690	51930	41350	20710	21550
1936-37	10280	5173	3722	3103	2648	2793	5498	19300	47120	52890	34790	22990	17620
1937-38	12070	9250	5476	3637	2814	3420	7499	29010	61060	56950	32190	28850	20940
1938-39	11740	5899	5060	5103	3083	4096	9901	42180	43990	56470	42400	21420	21100
1939-40	11960	8282	<u>6638</u>	4004	3560	3949	9642	34860	56680	59840	36650	25740	21880
1940-41	<u>18390</u>	6891	5025	3505	3324	3802	13540	27180	48070	53170	38880	20420	20300
1941-42	13800	8101	5976	3622	3028	2838	6654	26830	46900	60670	43210	18730	20170
1942-43	10840	5246	3977	2859	2949	2966	13210	19090	38880	62870	41100	18320	18650
1943-44	11060	5191	3237	2675	3051	2873	6271	24020	48580	42430	36900	24570	17610
1944-45	12690	7859	4560	3805	3662	3424	3556	21690	47490	48760	35040	18260	17660
1945-46	9107	4816	3683	2675	2685	3015	6784	44080	65660	58810	39310	21070	21930
1946-47	8547	4695	4721	4441	3760	3678	10290	37950	60520	59190	32670	21010	21060
1947-48	15840	7822	4925	3860	3086	2840	5557	38860	81020	46730	41670	21740	22870
1948-49	11450	6868	4094	2805	2395	2828	6992	33310	<u>38880</u>	<u>37230</u>	32360	17210	<u>16470</u>
1949-50	7969	6207	4023	<u>2436</u>	<u>2362</u>	2927	4733	17590	66340	73230	39620	23050	20980
1950-51	9668	6192	4662	4009	3541	3495	6715	36310	47410	68000	37200	16600	20470
1951-52	10470	5294	3246	2673	2556	2642	8390	33930	52480	53490	37540	17000	19210
1952-53	10240	4457	3200	3145	3032	2987	3978	25480	52880	55250	38090	20810	18740
1953-54	12570	8749	4865	3624	3811	3449	4039	28140	59610	<u>81550</u>	49200	28800	24190
1954-55	11740	9187	6143	4100	3597	3481	4815	14610	58630	69830	38420	21170	20580
1955-56	8998	5500	4411	3651	2688	3032	8472	34880	64980	56550	37810	19440	20930
1956-57	10980	5717	4201	3297	3339	3392	5690	<u>52930</u>	55940	43760	27960	19290	19820
1957-58	10260	5533	4032	3737	3559	3604	6171	41640	68150	47410	38010	19400	21060
1958-59	11760	5921	4644	4046	3451	3185	6235	26690	61160	69020	37050	26440	21750
1959-60	13350	8026	6016	4220	3853	3899	9024	17890	47920	68190	38070	21170	20210
1960-61	12300	7861	4545	4313	3892	3884	6270	35460	84130	49970	40930	17740	22690
1961-62	12700	6197	4597	3623	4120	3121	9479	24410	52640	54500	42010	18780	19790
1962-63	10940	8527	5462	4388	<u>4954</u>	4625	8806	25070	58400	54510	39920	27120	21140
1963-64	12520	6565	4619	3961	3355	2966	5236	18270	61110	66260	35400	19060	20000
1964-65	15020	8731	4809	4090	3934	3536	8468	23720	55680	59530	49050	14890	21090
1965-66	12450	9364	5841	4306	4216	4507	10770	32190	55390	62310	41740	23140	22310
1966-67	12830	7613	5379	4436	3982	3546	5342	23520	87590	75900	47920	29460	<u>25730</u>
1967-68	13430	8108	4112	3934	4043	4565	4778	24570	59660	69960	39150	24280	21790
1968-69	11520	7460	4594	2799	3081	3418	11130	36620	70270	46810	34380	20290	21110
1969-70	11600	7181	4195	3397	3395	3002	4117	18730	60010	49840	36320	14930	18140
1970-71	7965	4116	<u>3038</u>	3127	3285	2835	6261	34900	59550	50130	47460	20600	20390
1971-72	10720	5798	3065	2772	2713	3754	6028	35790	<u>90220</u>	61020	47710	19280	24120
1972-73	10530	5936	4306	3528	3181	3539	5627	25450	48730	49460	35810	18440	17980
1973-74	11500	9500	4227	3672	3457	3150	8026	20290	68750	63280	44450	28070	22450
1974-75	10800	5983	4969	3559	3538	<u>2253</u>	6563	19030	44590	60760	35070	18400	18070
1975-76	11030	<u>11650</u>	5375	4173	3683	3057	8187	35060	45010	71230	<u>57420</u>	<u>32350</u>	24130
1976-77	11700	6060	4488	4407	3308	4414	8288	22800	49320	39960	39720	16240	17650
1977-78	7200	5124	4340	3706	3037	3563	7629	19070	52050	60380	35840	28430	19290
1978-79	12720	9480	5156	3337	3761	4067	5944	21750	48280	52700	36010	21310	18800
1979-80	9878	<u>3942</u>	4057	3625	3045	3236	11750	45590	50710	41900	<u>27140</u>	17250	18570
1980-81	11970	6491	6077	4248	3651	4536	7713	37300	41770	58930	49020	22300	21330
1981-82	8346	8040	4431	4118	3931	3528	4377	21300	68960	60900	36220	27480	21040
1982-83	11310	6447	4204	4382	3758	4410	7391	26180	49410	54160	39290	18110	19200
1983-84	9269	9672	4207	<u>5305</u>	4051	4007	7132	<u>11420</u>	49720	54780	41270	19800	18430
1984-85	10230	5555	4288	3567	4325	2545	6836	32690	46390	49210	28490	<u>13170</u>	17370
1985-86	8550	5248	3689	3596	3530	4380	7565	27030	73150	51160	37210	16230	20190
1986-87	8480	5746	4936	2917	3615	<u>5151</u>	9383	38310	58660	45920	27940	19570	19300
1987-88	<u>6851</u>	4905	3761	3274	4190	3579	11670	28400	56540	45050	34240	17700	18380
1988-89	11270	7431	4841	4794	4259	3316	7893	27110	54470	47100	38900	16410	19080
MEAN	11040	6796	4562	3694	3410	3495	7629	28920	57530	56830	39250	21120	20440
MEDIAN	11060	6447	4545	3651	3407	3424	6992	27030	57700	56230	39030	20540	20470

MCD3A

USGS # 12229800

REVELSTOKE CANYON

River: COLUMBIA

Drainage Area: 10200 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 934

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										84300	54900	25440	
1928-29	10410	7033	6586	5544	4524	4448	4565	28840	82410	58250	51330	31360	24700
1929-30	11040	<u>5573</u>	4864	<u>3159</u>	3517	6338	20380	37420	82540	84730	61050	31870	29520
1930-31	11910	7481	4804	3697	3224	4614	9123	43190	85490	74690	50780	35900	28040
1931-32	16080	12280	7219	4410	3430	4900	12700	49000	97400	73690	60160	25750	30660
1932-33	15330	10610	8216	6511	4981	4769	8463	39880	88800	97770	66060	30880	32050
1933-34	18330	13920	8518	7765	4361	6262	33180	77460	88240	74740	53420	27240	34630
1934-35	17690	13520	7899	5271	5998	6096	8960	35330	83940	95430	51470	31090	30210
1935-36	14880	8390	6346	5521	4807	4725	16400	62250	86520	68480	54240	27570	30100
1936-37	14600	7483	5203	4225	3355	3673	8433	31040	68120	69930	43770	31500	24400
1937-38	17700	14160	8744	5263	3716	5073	11490	44640	87010	75730	39520	38040	29380
1938-39	17100	8668	7896	8119	4283	6569	15120	63160	63900	75060	55880	28840	29760
1939-40	17480	12630	11100	5983	5313	6251	14740	52810	81110	79870	46740	36190	30930
1940-41	28880	10290	7827	5001	4799	5914	20650	42020	69390	70300	50300	27170	28700
1941-42	20780	12300	9749	5241	4167	3769	10190	41610	67870	81070	57290	24230	28380
1942-43	15550	7598	5700	3748	3994	4059	20170	30640	56920	84260	53830	23550	26000
1943-44	15920	7509	4220	3395	4213	3853	9610	37580	70050	54830	47160	34110	24420
1944-45	18820	11920	6891	5589	5521	5078	5475	34370	68570	63940	44110	23430	24600
1945-46	12450	6898	5117	3393	3431	4162	10380	65780	93220	78340	51010	28230	30370
1946-47	11480	6700	7215	6827	5732	5649	17370	57150	85530	74460	44870	28000	29390
1947-48	22380	11550	6894	5567	3766	3586	7971	58700	112900	62240	55300	29010	31710
1948-49	17750	10080	6792	4040	3564	4050	12150	56000	59670	51980	42950	21990	24400
1949-50	11010	9497	7496	5435	5213	6204	7685	27220	98150	103900	53350	29010	30490
1950-51	13770	10070	8636	7307	6160	6088	11500	58740	69450	88030	47230	21230	29210
1951-52	14730	8173	6050	4763	4375	4403	13350	54160	77820	73740	48050	22060	27740
1952-53	14010	6758	5325	5735	5360	5163	7771	43080	80100	75650	49690	28020	27360
1953-54	18970	14480	8530	5432	4780	5665	6598	43270	87260	<u>113400</u>	65210	38500	34560
1954-55	17910	15870	9838	6046	6086	4426	7542	25030	85110	95810	49170	27180	29310
1955-56	13650	9308	6335	5187	4077	4493	12340	53490	90220	73800	46610	24890	28780
1956-57	15230	8631	6267	4195	4226	4091	8699	<u>77540</u>	79350	58440	37000	25190	27560
1957-58	13900	8686	6071	5485	4837	4818	10110	61430	92940	59910	46930	26680	28610
1958-59	18540	8941	6646	4974	4670	4803	9566	41440	83960	89850	47330	36260	29900
1959-60	19450	11930	7851	5834	5965	5515	13270	28960	69210	91930	48980	28430	28200
1960-61	19330	11840	6875	6294	5840	5486	9655	51880	114000	64380	50300	22990	30850
1961-62	17500	8454	6113	5421	6355	4438	13840	37330	75000	70980	53580	24920	27130
1962-63	16050	12560	7842	6288	7942	6472	13510	37300	80210	70380	49970	34460	28680
1963-64	16770	9144	6572	5449	4519	3997	7427	30340	90380	92950	48130	26950	28630
1964-65	23020	13070	6697	5978	5755	6083	12870	35770	76520	74980	62170	19630	28710
1965-66	17400	13870	7688	5756	5311	5312	11960	46570	79070	82920	54240	30690	30230
1966-67	17750	10690	7161	6263	5806	4920	7486	35870	123200	96630	58430	36470	34350
1967-68	19160	11920	6484	5475	5637	7518	8144	41180	90820	98700	53680	35090	32080
1968-69	17900	11960	6989	4152	4547	5256	16860	53670	98230	60890	43320	26820	29320
1969-70	17270	10880	6688	4502	4904	4830	6698	29920	81010	64090	46140	19810	24840
1970-71	11610	6268	3989	4223	5181	4363	10020	51980	83250	67090	63210	31020	28660
1971-72	16260	8769	5027	4485	4674	6341	9567	53900	<u>129500</u>	87730	64330	26530	<u>34830</u>
1972-73	15910	9730	6531	5318	4654	5265	<u>4140</u>	15400	31540	50190	40350	36950	<u>18930</u>
1973-74	<u>33400</u>	28710	<u>2934</u>	4300	<u>2268</u>	<u>2562</u>	6083	14190	32660	<u>25840</u>	42860	40510	19780
1974-75	29320	18140	24320	22260	22810	14510	<u>33180</u>	13770	26430	27450	38210	27160	24800
1975-76	15670	19430	9413	6324	5599	5644	16290	21390	30390	58100	<u>84400</u>	<u>50650</u>	27030
1976-77	21970	15480	21040	21440	19310	22720	33140	30680	45360	34370	36390	28980	27610
1977-78	21670	20330	23230	19140	19290	14220	13360	15920	38450	33390	43600	46000	25730
1978-79	23300	23130	<u>34770</u>	28430	21030	19020	20960	18400	33080	38600	47940	28220	28150
1979-80	27940	18080	19060	19030	25270	24900	21360	22360	25330	33550	30100	30510	24800
1980-81	15510	18140	26350	31770	36310	22420	20950	32210	31440	36070	66030	33610	30910
1981-82	19010	17930	25490	26400	18780	19550	14810	29060	46040	62660	54270	41620	31420
1982-83	17190	15340	17490	24880	27940	29030	26660	26450	31800	48260	50410	29660	28800
1983-84	<u>7827</u>	18940	29350	22750	21810	19710	10450	<u>11080</u>	<u>24860</u>	27610	38700	30890	22010
1984-85	23930	17220	22930	32670	<u>38400</u>	<u>36510</u>	15620	27430	26740	40280	41840	19750	28630
1985-86	14700	25040	28220	23610	17960	8000	7934	16900	41710	43070	49670	31280	25730
1986-87	13870	18750	27590	32810	34080	27170	21410	20870	33980	40500	45510	29270	28810
1987-88	19340	<u>30320</u>	28500	25450	26150	24370	17460	21660	29620	37620	46330	27260	27870
1988-89	18600	20360	32720	<u>34440</u>	35680	24680	11360	15340	27970	33310	<u>24620</u>	<u>15240</u>	24500
MEAN	17490	12840	11230	10070	9676	8931	13230	38720	70030	67110	50070	29550	28320
MEDIAN	17270	11920	7219	5567	5213	5486	11500	37330	79070	70340	49680	28640	28680

RVC3H

USGS # 12229800

REVELSTOKE CANYON

River: COLUMBIA

Drainage Area: 10200 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 934

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	0	0	0	0
1968-69	0	0	0	0	0	0	0	0	0	0	0	0	0
1969-70	0	0	0	0	0	0	0	0	0	0	0	0	0
1970-71	0	0	0	0	0	0	0	0	0	0	0	0	0
1971-72	0	0	0	0	0	0	0	0	0	0	0	0	0
1972-73	0	0	0	0	0	0	0	0	0	0	0	0	0
1973-74	0	0	0	0	0	0	0	0	0	0	0	0	0
1974-75	0	0	0	0	0	0	0	0	0	0	0	0	0
1975-76	0	0	0	0	0	0	0	0	0	0	0	0	0
1976-77	0	0	0	0	0	0	0	0	0	0	0	0	0
1977-78	0	0	0	0	0	0	0	0	0	0	0	0	0
1978-79	0	0	0	0	0	0	0	0	0	0	0	0	0
1979-80	0	0	0	0	0	0	0	0	0	0	0	0	0
1980-81	0	0	0	0	0	0	0	0	0	0	0	0	0
1981-82	0	0	0	0	0	0	0	0	0	0	0	0	0
1982-83	0	0	0	0	0	0	0	0	0	0	0	0	0
1983-84	22193	11619	7240	8051	2661	6592	4695	-140	27	4620	-315	481	5676
1984-85	1287	-618	689	-3665	2481	-781	-495	479	-387	1497	183	-406	7
1985-86	543	-2523	1931	60	1358	-419	-46	1719	-1433	73	73	-29	111
1986-87	-13	-94	-58	-749	531	433	184	913	194	-981	497	-48	64
1987-88	-118	136	-27	-210	-83	60	-232	-223	32	566	-2337	1566	-77
1988-89	867	-76	-136	210	-531	-3566	1331	466	1594	598	225	-62	75
MEAN	4126	1407	1606	616	1069	386	906	536	5	1062	-279	250	976

RVC3S

USGS # 12229800

REVELSTOKE CANYON

River: COLUMBIA

Drainage Area: 10200 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cubic feet per second

River Mile: 934

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	0	0	0	0
1968-69	0	0	0	0	0	0	0	0	0	0	0	0	0
1969-70	0	0	0	0	0	0	0	0	0	0	0	0	0
1970-71	0	0	0	0	0	0	0	0	0	0	0	0	0
1971-72	0	0	0	0	0	0	0	0	0	0	0	0	0
1972-73	0	0	0	0	4	322	4466	25140	38100	17070	4829	-14006	6370
1973-74	-18303	-16500	3381	1078	2827	2165	7178	19550	67600	61860	15960	-4847	11886
1974-75	-15600	-11263	-18257	-18228	-18656	-11430	-23797	18563	43742	52824	7428	-2268	396
1975-76	4514	-1590	178	96	-15	-781	-4176	31194	34174	41073	2105	232	8985
1976-77	-5180	-7332	-15421	-16007	-14838	-17126	-19946	3266	24831	19497	14732	-6196	-3228
1977-78	-11832	-11459	-15092	-13824	-15687	-9506	-1658	17317	42070	48308	6970	695	3131
1978-79	-3320	-9663	-27873	-23360	-16934	-15159	-13733	15115	35074	29369	-1889	555	-2597
1979-80	-13810	-11520	-11655	-14509	-20623	-19735	-637	44893	43569	20892	5618	-4917	1528
1980-81	2315	-6263	-15203	-24063	-27827	-15241	-7177	25569	30985	43259	497	-3761	453
1981-82	-4848	-5413	-17889	-19711	-13323	-14837	-7954	6757	56234	22970	2295	-2265	170
1982-83	-1536	-5677	-10057	-18636	-20626	-20750	-12214	16822	41367	31763	3906	-3841	160
1983-84	5461	-3208	-21582	-15031	-15338	-13170	1204	9287	49693	52912	16882	-1889	5483
1984-85	-8176	-8158	-15742	-26309	-32048	-31513	-3549	25864	42627	26991	-1673	-822	-2580
1985-86	-1288	-16768	-22960	-18780	-13535	-1091	4430	25046	58020	24963	-2786	-10687	2102
1986-87	-1999	-10575	-21005	-28219	-29515	-19156	-5589	37563	49644	20324	-9008	-4179	-1682
1987-88	-10002	-23139	-23091	-21057	-20990	-19392	1582	23220	50025	22910	-1373	-3629	-2065
1988-89	-2641	-8835	-26162	-28240	-30719	-19845	1302	26526	49654	28733	25382	6616	1968
MEAN	-5390	-9835	-16152	-17800	-16932	-13308	-4722	21860	44550	33280	5287	-3248	1793

RVC3SS

USGS # 12229800

REVELSTOKE CANYON

River: COLUMBIA

Drainage Area: 10200 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 934

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										84300	54900	25440	
1928-29	10410	7033	6586	5544	4524	4448	<u>4565</u>	28840	82410	58250	51330	31360	24700
1929-30	11040	<u>5573</u>	4864	<u>3159</u>	3517	6338	20380	37420	82540	84730	61050	31870	29520
1930-31	11910	7481	4804	3697	<u>3224</u>	4614	9123	43190	85490	74690	50780	35900	28040
1931-32	16080	12280	7219	4410	3430	4900	12700	49000	97400	73690	60160	25750	30660
1932-33	15330	10610	8216	6511	4981	4769	8463	39880	88800	97770	66060	30880	32050
1933-34	18330	13920	8518	7765	4361	6262	<u>33180</u>	77460	88240	74740	53420	27240	34630
1934-35	17690	13520	7899	5271	5998	6096	6960	35330	83940	95430	51470	31090	30210
1935-36	14880	8390	6346	5521	4807	4725	16400	62250	86520	68480	54240	27570	30100
1936-37	14600	7483	5203	4225	3355	3673	8433	31040	68120	69930	43770	31500	24400
1937-38	17700	14160	8744	5263	3716	5073	11490	44640	87010	75730	39520	38040	29380
1938-39	17100	8668	7896	<u>8119</u>	4283	6569	15120	63160	63900	75060	55880	28840	29760
1939-40	17480	12630	11100	5983	5313	6251	14740	52810	81110	79870	46740	36190	30930
1940-41	<u>28880</u>	10290	7827	5001	4799	5914	20650	42020	69390	70300	50300	27170	28700
1941-42	20780	12300	9749	5241	4167	3769	10190	41610	67870	81070	57290	24230	28380
1942-43	15550	7598	5700	3748	3994	4059	20170	30640	<u>56920</u>	84260	53830	23550	26000
1943-44	15920	7509	4220	3395	4213	3853	9610	37580	70050	54830	47160	34110	24420
1944-45	18820	11920	6891	5589	5521	5078	5475	34370	68570	63940	44110	23430	24600
1945-46	12450	6898	5117	3393	3431	4162	10380	65780	93220	78340	51010	28230	30370
1946-47	11480	6700	7215	6827	5732	5649	17370	57150	85530	74460	44870	28000	29390
1947-48	22360	11550	6894	5567	3766	3586	7971	58700	112900	62240	55300	29010	31710
1948-49	17750	10080	6792	4040	3564	4050	12150	56000	59670	<u>51980</u>	42950	21990	24400
1949-50	11010	9497	7496	5435	5213	6204	7685	27220	98150	103900	53350	29010	30490
1950-51	13770	10070	8636	7307	6160	6088	11500	58740	69450	88030	47230	21230	29210
1951-52	14730	8173	6050	4763	4375	4403	13350	54160	77820	73740	48050	22060	27740
1952-53	14010	6758	5325	5735	5360	5163	7771	43080	80100	75650	49690	28020	27360
1953-54	18970	14480	8530	5432	4780	5665	6598	43270	87260	<u>113400</u>	65210	38500	34560
1954-55	17910	15870	9838	6046	6086	4426	7542	25030	85110	95810	49170	27180	29310
1955-56	13650	9308	6335	5187	4077	4493	12340	53490	90220	73800	46610	24890	28780
1956-57	15230	8631	6267	4195	4226	4091	8699	<u>77540</u>	79350	58440	37000	25190	27560
1957-58	13900	8686	6071	5485	4837	4818	10110	61430	92940	59910	46930	26680	28610
1958-59	18540	8941	6646	4974	4670	4803	9566	41440	83960	89850	47330	36260	29900
1959-60	19450	11930	7851	5834	5965	5515	13270	28960	69210	91930	48980	28430	28200
1960-61	19330	11840	6875	6294	5840	5486	9655	51880	114000	64380	50300	22990	30850
1961-62	17500	8454	6113	5421	6355	4438	13840	37330	75000	70980	53580	24920	27130
1962-63	16050	12560	7842	6288	7942	6472	13510	37300	80210	70380	49970	34460	28680
1963-64	16770	9144	6572	5449	4519	3997	7427	30340	90380	92950	48130	26950	28630
1964-65	23020	13070	6697	5978	5755	6083	12870	35770	76520	74980	62170	19630	28710
1965-66	17400	13870	7688	5756	5311	5312	11960	46570	79070	82920	54240	30690	30230
1966-67	17750	10690	7161	6263	5806	4920	7486	35870	123200	96630	58430	36470	34350
1967-68	19160	11920	6484	5475	5637	7518	8144	41180	90820	98700	53680	35090	32080
1968-69	17900	11960	6989	4152	4547	5256	16860	53670	98230	60890	43320	26820	29320
1969-70	17270	10880	6688	4502	4904	4830	6698	29920	81010	64090	46140	19810	24840
1970-71	11610	6268	<u>3989</u>	4223	5181	4363	10020	51980	83250	67090	63210	31020	28660
1971-72	16260	8769	5027	4485	4674	6341	9567	53900	<u>129500</u>	87730	64330	26530	34830
1972-73	15910	9730	6531	5318	4658	5587	8606	40540	69640	67260	45180	22940	25300
1973-74	15090	12210	6315	5378	5095	4727	13260	33740	100300	87700	58820	35670	31640
1974-75	13720	6874	6059	4035	4152	<u>3081</u>	9386	32340	70170	80270	45630	24900	25190
1975-76	20190	<u>17840</u>	9591	6420	5585	4863	12120	52580	64560	99180	<u>86510</u>	<u>50880</u>	<u>36020</u>
1976-77	16790	8146	5621	5431	4472	5596	13200	33950	70190	53860	51130	22780	<u>24380</u>
1977-78	9841	8870	8136	5313	3599	4715	11700	33240	80520	81690	50570	46690	28860
1978-79	19980	13470	6897	5074	4097	3859	7232	33520	68150	67970	46050	28770	25550
1979-80	14130	6560	7404	4521	4650	5163	20720	67260	68900	54440	<u>35720</u>	25600	26330
1980-81	17830	11880	<u>11140</u>	7709	<u>8480</u>	7179	13770	57770	62430	79330	66520	29850	31360
1981-82	14160	12510	7598	6691	5456	4708	6851	35820	102300	85630	56560	39350	31590
1982-83	15650	9659	7429	6246	7317	<u>8285</u>	14440	43270	73170	80020	54320	25820	28960
1983-84	13290	15730	7767	7720	6469	6541	11650	<u>20370</u>	74560	80520	55580	29000	27490
1984-85	15760	9066	7192	6364	6351	4995	12070	53290	69360	67270	40170	<u>18930</u>	26050
1985-86	13410	8269	5261	4825	4421	6909	12360	41950	99730	68030	46880	20590	27830
1986-87	11870	8179	6581	4593	4566	8016	15820	58430	83620	60820	36500	25090	27120
1987-88	<u>9336</u>	7182	5406	4391	5159	4981	19040	44880	79640	60530	44950	23630	25800
1988-89	15960	11520	6555	6200	4961	4834	12660	41870	77620	62040	50000	21850	26470
MEAN	16080	10260	6991	5396	4957	5222	11920	44820	82450	76240	51520	28660	28820
MEDIAN	15960	9730	6875	5431	4799	4981	11650	42020	81010	74860	50430	27410	28710

RVC3A

USGS # 12239500

UPPER ARROW

River: COLUMBIA

Drainage Area: 14100 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 780.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	1533	-888	183	70
1968-69	-236	61	-1540	-4172	-8407	-2499	3782	25196	31671	1248	-6297	-1739	3125
1969-70	-5392	-15717	-21207	-17885	-1297	-738	887	11506	51305	10002	-7149	-10632	-597
1970-71	-9550	-14167	-14121	-11330	1041	-5485	4687	21074	32063	13815	201	-3070	1226
1971-72	-4412	-15533	-23508	-18044	-4909	606	-903	20628	34887	14614	-25	-3962	-60
1972-73	861	-5741	-28386	-18766	-9090	1676	-5899	7961	14276	-3882	-12792	-1124	-5102
1973-74	508	8687	2036	71	918	-4009	6572	7225	40907	8839	-9804	-11913	4121
1974-75	-3330	-12205	-10254	-10491	-8820	-5940	-355	12985	35588	22139	-6593	4889	1492
1975-76	-195	-4504	-4647	-15389	-15280	-15823	3696	13950	23797	17919	113	-673	274
1976-77	-11412	-11069	-17814	-16641	-7797	-598	4194	2573	14085	-5817	-4481	-4132	-4948
1977-78	2307	-4490	7994	1617	-4108	-8067	5638	7477	34948	13579	1278	510	4918
1978-79	-7347	-2122	-4882	-25325	-10035	-3656	363	9807	26412	5430	-6356	-3016	-1737
1979-80	-2053	-7029	-23431	-10507	-4595	3730	10007	29919	20369	4784	-11032	6786	1378
1980-81	1265	-5465	-10923	-15768	-9515	-304	10559	24528	7432	2025	-945	-2516	83
1981-82	-2285	-1065	-7849	-17738	-3161	-13267	-21167	7190	45836	16129	-2285	908	66
1982-83	-3121	-4579	-7515	-17021	-11930	-6960	-603	9457	24551	20539	-2243	2332	286
1983-84	-10334	-377	-8484	-11305	-23421	-9446	8705	-5811	35052	19515	-7429	1606	-988
1984-85	-2805	2496	-12407	-27729	-17756	-570	3744	25158	24651	4174	6488	3558	816
1985-86	-3596	386	-19322	-16052	-11096	-3176	-1663	7171	40641	2231	-1248	1916	-345
1986-87	954	-5153	-13511	-25095	-6056	8666	8733	17999	9399	1947	150	-6589	-694
1987-88	-12359	-1758	-11127	-19028	-10620	3926	4662	19253	20150	11929	-4799	-13490	-1091
1988-89	-6091	-3824	-6591	-17947	-6338	6619	2459	12694	23157	13209	4438	-5829	1363
MEAN	-3744	-4913	-11309	-14978	-8203	-2634	2290	13710	28150	8905	-3258	-2091	166

UPA3S

USGS # LOWER ARROW
Monthly mean storage change, at site, in cfs.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	2753	-73	250	247
1968-69	-124	83	-1160	-3548	-6339	-2144	3127	18876	21664	872	-4172	-1225	2188
1969-70	-3471	-10912	-16042	-14222	-104	-2291	-21	10253	38324	6564	-4676	-7085	-368
1970-71	-6576	-9738	-10930	-9246	882	-5275	3285	17257	22898	9161	107	-1949	792
1971-72	-2932	-10424	-16935	-14181	-3674	-80	-1956	16371	26279	9779	58	-2648	-40
1972-73	592	-3829	-19512	-14177	-6988	1325	-5527	6788	11021	-3239	-11874	-2048	-3973
1973-74	235	9124	1328	-26	539	-2564	4186	4399	22852	4603	-4980	-6450	2738
1974-75	-1850	-6779	-6154	-6406	-5971	-6788	528	11002	20813	11767	-3409	2513	789
1975-76	-158	-2261	-2443	-8413	-8768	-9674	2382	8420	13309	9353	51	-335	136
1976-77	-5898	-5973	-10112	-10155	-4857	-446	2728	1346	8980	-3539	-2704	-2555	-2787
1977-78	1361	-2975	5237	1038	-2587	-5091	3548	4675	19927	7094	648	231	2776
1978-79	-3814	-1059	-2591	-14137	-6001	-2275	161	6033	14841	2871	-3369	-1619	-915
1979-80	-1107	-4010	-13733	-7109	-3008	2990	6240	17544	10840	2464	-5728	3587	731
1980-81	617	-2873	-5736	-8852	-5490	-180	6166	13404	3805	1116	-569	-1277	40
1981-82	-1189	-627	-4078	-9780	-1747	-7928	-14749	6028	26966	8444	-1207	586	42
1982-83	-1734	-2348	-4022	-9523	-6883	-4385	-242	5847	13809	10883	-1182	1206	144
1983-84	-5393	-184	-4528	-6204	-14031	-5562	5458	-3696	20743	10269	-3870	849	-518
1984-85	-1514	1425	-6795	-16219	-13021	-618	4640	15224	13823	2253	3476	1803	428
1985-86	-1938	289	-10342	-8984	-6619	-2042	-998	4355	22837	1127	-714	974	-183
1986-87	472	-2639	-7246	-14603	-3566	5355	5146	9944	5009	990	164	-3491	-361
1987-88	-6720	-976	-6225	-11892	-6869	2836	3115	11546	11431	6385	-2560	-7317	-593
1988-89	-3383	-2226	-3909	-11490	-4924	5584	1691	7639	13100	7201	2262	-3057	735
MEAN	-2120	-2805	-6949	-9435	-5239	-1869	1377	9203	17300	4962	-2015	-1321	93

LOA3S

USGS #

LOWER ARROW

Summation of monthly storage changes, at site and upstream, in cfs.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	4286	-961	433	317
1968-69	-360	144	-2700	-7721	-14746	-4643	6909	44072	53334	2120	-10469	-2963	5313
1969-70	-8863	-26629	-37249	-32107	-1401	-3029	867	21759	89630	16566	-11825	-17717	-964
1970-71	-16126	-23904	-25050	-20577	1923	-10760	7972	38331	54961	22977	309	-5019	2017
1971-72	-7344	-25957	-40443	-32225	-8583	526	-2859	37000	61166	24393	33	-6610	-100
1972-73	1454	-9570	-47898	-32944	-16078	3001	-11426	14749	25297	-7121	-24666	-3172	-9075
1973-74	743	17811	3364	48	1458	-8573	10759	11624	63759	13442	-14784	-18363	6859
1974-75	-5180	-18984	-16408	-16898	-14790	-12728	173	23987	56401	33906	-10002	7401	2281
1975-76	-353	-6765	-7090	-23802	-24048	-25497	6079	22369	37105	27271	164	-1009	409
1976-77	-17310	-17042	-27926	-26796	-12655	-1043	6922	3919	23065	-9356	-7184	-6687	-7735
1977-78	3668	-7465	13231	2655	-6694	-13158	9186	12153	54875	20673	1926	741	7894
1978-79	-11161	-3181	-7473	-39462	-16036	-5931	524	15839	41253	8301	-9725	-4635	-2652
1979-80	-3160	-11039	-37164	-17617	-7602	6719	16247	47463	31209	7248	-16759	10372	2109
1980-81	1881	-8338	-16659	-24620	-15005	-483	16725	37932	11237	3141	-1514	-3794	123
1981-82	-3474	-1693	-11927	-27518	-4908	-21195	-35915	13218	72803	24572	-3472	1494	108
1982-83	-4855	-6927	-11537	-26544	-18813	-11345	-844	15305	38360	31421	-3425	3539	429
1983-84	-15727	-561	-13012	-17508	-37452	-15008	14163	-9508	55795	29785	-11300	2455	-1506
1984-85	-4319	3921	-19202	-43948	-30778	-1188	8384	40382	38473	6427	9964	5361	1244
1985-86	-5533	675	-29665	-25035	-17715	-5218	-2661	11526	63478	3359	-1962	2891	-529
1986-87	1426	-7792	-20757	-39698	-9622	14021	13878	27943	14408	2936	315	-10080	-1055
1987-88	-19079	-2734	-17351	-30919	-17489	6763	7777	30799	31581	18315	-7359	-20807	-1684
1988-89	-9474	-6050	-10500	-29437	-11262	12203	4150	20333	36257	20410	6700	-8886	2099
MEAN	-5864	-7718	-18258	-24413	-13443	-4503	3667	22910	45450	13870	-5273	-3412	259

LOA3SS

USGS # 12239500 HUGH KEENLYSIDE (ARROW LK) River: COLUMBIA Drainage Area: 14100 Sq. Mi.
 Monthly mean historical streamflow in cfs. River Mile: 780.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										117200	80860	44330	
1928-29	24120	15440	10940	8110	5500	5671	8281	29610	105900	81820	70400	44320	34310
1929-30	21770	13490	9173	8616	7382	8317	19650	55170	93960	103800	78520	47340	39140
1930-31	21570	12260	8514	6742	6315	6407	10500	53210	104200	92830	66750	50950	36850
1931-32	26860	19480	13080	10040	8109	12400	21540	69250	125400	111400	78730	46700	45370
1932-33	23460	17990	15310	11210	8627	7914	10870	45880	111800	136100	89140	51730	44420
1933-34	28510	27000	18150	13100	11090	11990	28480	<u>95160</u>	127400	90420	71470	45760	47560
1934-35	24290	21880	16610	10810	11700	9931	11050	37400	107800	123000	80210	46920	41990
1935-36	24180	14090	10200	8338	6242	6406	13170	72580	126900	91290	67040	41100	40210
1936-37	22590	12170	8245	<u>6104</u>	<u>5106</u>	<u>5279</u>	7883	29430	86030	91170	60240	41500	31470
1937-38	21790	26020	14570	10260	8153	8006	13230	45110	115700	107200	53670	43870	39100
1938-39	29190	15570	10190	8578	7377	6693	13800	68780	89150	92890	69890	41930	38060
1939-40	24500	22410	16880	12030	9164	9315	18890	56840	106000	97160	65490	50040	40800
1940-41	34200	23790	12060	9533	8180	8733	21900	52490	80670	81930	62180	41790	36630
1941-42	32830	23700	16980	10310	8384	7019	10470	38370	91420	96600	71310	36700	37200
1942-43	22810	13460	9289	7446	6499	5953	14360	34190	70970	101800	70190	35480	32910
1943-44	22550	13590	9398	7353	6609	5849	8564	37110	85720	65040	60010	42490	30410
1944-45	28400	20310	12410	8679	7799	7192	8287	32410	91820	82720	56960	35930	32880
1945-46	18450	13030	9163	7615	6649	6834	12380	69000	134100	107200	67630	41840	41340
1946-47	19690	<u>11610</u>	9002	7647	7456	7473	15560	64550	118600	102100	62960	37790	38880
1947-48	31900	21850	12300	9572	7415	6648	8980	51330	<u>163200</u>	90370	66890	49300	43320
1948-49	27720	17660	11290	8134	7089	7062	13710	65910	92580	67000	60840	37270	34850
1949-50	19510	14340	14120	8289	7076	7688	10040	32070	111300	144200	76650	47570	41310
1950-51	25130	18400	13450	11990	8839	7868	13120	64060	93860	112600	68130	33840	39520
1951-52	23940	14900	10590	7468	7167	6367	11410	60580	106200	101000	68830	32960	37750
1952-53	24660	12700	8532	7402	7465	6925	8374	44340	101600	101500	66150	43190	36240
1953-54	27220	23150	16360	11220	9089	9315	9870	39340	114900	<u>154900</u>	89960	61560	47490
1954-55	29290	22080	20350	12690	10130	8268	10130	24500	100100	140900	77020	41730	41670
1955-56	20600	20500	12420	9762	7705	7400	14200	58960	133900	104000	67980	38620	41400
1956-57	28840	17760	11460	9681	7569	7474	10700	90490	125000	82860	55970	36270	40530
1957-58	23900	15510	11240	9143	9034	9975	15360	66010	147100	88930	63550	43150	42030
1958-59	30710	20400	12810	10980	9305	8513	13560	50740	118600	137700	77270	54780	45670
1959-60	37160	27210	17350	11770	10100	9217	21230	42240	93700	132100	74740	39900	43220
1960-61	29470	24650	13920	10160	9784	9587	14410	51100	151700	102000	70550	42490	44290
1961-62	24600	18490	10770	8471	8724	7947	14250	43770	105600	112000	81940	43360	40190
1962-63	26000	22160	16630	11830	10100	10710	15940	43100	114200	105300	72660	49310	41650
1963-64	28430	17400	12660	9944	8297	7381	9802	33710	125900	144000	80890	41300	43440
1964-65	41310	24170	14380	10240	9102	8646	12790	46720	111400	108800	86020	41670	43170
1965-66	24030	23800	14730	10470	9114	8103	16480	55160	120100	122100	81330	44730	44380
1966-67	30100	19080	14000	11670	10210	8608	10560	36330	153300	151600	84570	52760	48770
1967-68	32380	21230	13260	9962	10660	12030	13700	44470	124100	128700	73340	48050	44420
1968-69	25810	17280	13700	17030	22490	12760	24320	44450	84690	79740	65330	38250	37230
1969-70	34440	<u>45840</u>	50210	41920	8767	10040	10240	28010	24960	64610	67410	44600	36190
1970-71	33050	<u>35720</u>	34110	28810	8246	18510	10860	50290	69310	72750	77130	38200	40020
1971-72	28390	41730	52670	41590	15830	11780	20070	50620	124800	101100	82580	40720	<u>51120</u>
1972-73	<u>18300</u>	23300	58200	43700	24200	6730	22800	23400	34800	76400	74500	47200	37970
1973-74	39620	17300	<u>5045</u>	9153	5204	13810	6958	27350	15160	46970	74070	66990	<u>27490</u>
1974-75	39710	42080	<u>47220</u>	45580	43000	31020	39330	11420	<u>5156</u>	24560	60730	29010	34900
1975-76	21790	36640	24640	36660	33940	37380	21210	32770	<u>24570</u>	67370	<u>107000</u>	<u>67390</u>	42720
1976-77	<u>48210</u>	40180	54710	56130	36830	27820	37770	51410	52520	61780	57380	45190	47620
1977-78	23160	32450	11580	20980	31980	35740	18790	27410	8899	36080	52230	61660	30060
1978-79	45210	35290	49540	75070	43970	32150	31250	28450	20670	51780	68510	40850	43680
1979-80	36410	33220	<u>65230</u>	41640	37880	22790	21220	<u>7503</u>	20720	45560	58450	28310	34980
1980-81	22960	35580	50460	63340	59180	29940	12820	25970	52280	66060	81980	50010	45860
1981-82	33490	30730	44970	59450	28720	48980	<u>61480</u>	41090	16180	66170	74120	52870	46740
1982-83	34480	30570	35140	56670	53540	<u>50880</u>	41250	38470	25250	42520	67200	36670	42730
1983-84	29240	29160	47780	44570	68720	41700	<u>5919</u>	38860	5432	<u>24160</u>	65440	37820	36580
1984-85	35490	18690	47000	<u>85620</u>	<u>76180</u>	41180	19240	16510	18450	50420	41630	<u>24560</u>	39490
1985-86	32840	34090	65170	54990	43210	21660	22690	32030	15580	65310	67260	37110	41130
1986-87	18960	34710	55300	82170	50110	20720	18060	25130	49710	57150	57950	48720	43230
1987-88	43410	38490	51600	63400	48250	24240	26840	19710	30150	42740	67240	57440	42810
1988-89	35780	33280	50890	73950	53090	17020	19770	19650	23220	30730	<u>33520</u>	33970	35350
MEAN	28510	23620	23410	23370	18420	14430	16890	43800	85320	90010	69850	43870	40210
MEDIAN	27720	21880	14120	10810	9089	8733	13800	43100	93960	92060	68670	42820	40800

ARD3H

USGS #	HUGH KEENLYSIDE (ARROW LK)						River:	COLUMBIA			Drainage Area:	14100	Sq. Mi.
Monthly mean storage change, at site, in cfs.											River Mile:	780.6	
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-8000	-12500	-7700	
1928-29	-4300	-2900	-2180	-1510	-510	1100	2880	19200	5000	-4200	-3900	-8800	4
1929-30	-5000	-3520	-1130	-960	640	-200	15400	4800	10400	-5200	-6400	-7300	84
1930-31	-6800	-2740	-1830	-320	-510	1240	5100	14700	10000	-4700	-6800	-8200	-80
1931-32	-3500	-2800	-1800	-1880	840	1800	8500	14600	16000	-14800	-4800	-12100	-26
1932-33	-2700	-1600	-2500	-1580	-1210	-30	6900	19800	17000	-12000	-9700	-10700	121
1933-34	-700	-3600	-4100	-1000	-1290	1300	28100	13600	-14000	-1200	-8200	-10200	-100
1934-35	-1900	-600	-4100	-870	-200	-490	4000	21300	9000	-2000	-15800	-7100	92
1935-36	-4400	-3300	-1510	-1290	-1040	440	15800	24700	-9200	-7100	-5400	-7800	10
1936-37	-4800	-3550	-1770	-1290	-100	160	3680	18000	9900	-5600	-9000	-4400	90
1937-38	1000	-6900	-3700	-1310	-1010	1090	8600	24600	6000	-14800	-9300	-800	284
1938-39	-8300	-4000	-1800	-270	-1220	1000	12400	20300	-3800	-1600	-8800	-8100	-336
1939-40	600	-5700	-1300	-3030	-740	2000	7900	21400	-1000	-4700	-7900	-4200	294
1940-41	-100	-9800	-2120	-1450	-850	2700	11200	6400	5800	-2700	-6200	-5300	-204
1941-42	-900	-5600	-2300	-2000	-1240	-340	7100	21900	-2200	-200	-8200	-8000	-134
1942-43	-3900	-3600	-1210	-1470	-370	80	13100	10200	6100	0	-11700	-8100	-91
1943-44	-3200	-3860	-1690	-570	-980	-200	7400	16500	3200	-2700	-6200	-3800	328
1944-45	-4300	-4000	-3730	-660	-740	240	1630	24600	3200	-7000	-7600	-7500	-473
1945-46	-3000	-2700	-1690	-720	-330	880	8900	31000	-5000	-8900	-9600	-8100	84
1946-47	-5600	-3100	-670	-650	-30	1490	11900	18200	-1000	-3500	-11500	-4300	96
1947-48	-1700	-5300	-2200	-1790	-750	-260	6640	39800	-8000	-14400	-800	-11300	48
1948-49	-4300	-3500	-2720	-1420	-130	-30	10500	20400	-9500	200	-5700	-7000	-245
1949-50	-3800	0	-2600	-1730	-140	-90	3350	16100	27000	-16000	-10300	-8500	221
1950-51	-4400	-3100	-500	-2300	-380	-850	7000	23700	1400	-2000	-14100	-6500	-166
1951-52	-2500	-3700	-2360	-550	-390	30	13700	20200	-1000	-8200	-9200	-3900	169
1952-53	-6400	-3790	-1250	10	-130	120	4540	20800	5000	-6200	-5800	-8600	-136
1953-54	-1000	-2600	-3700	-2290	350	-620	1860	32600	5000	-6000	-9600	-11000	270
1954-55	-5700	1500	-5200	-2300	-1400	-790	3000	15900	28800	-13000	-15200	-8900	-335
1955-56	-100	-5000	-2400	-1060	-980	170	13000	28600	-7000	-6600	-10300	-3800	397
1956-57	-5400	-4400	-1400	-2010	-340	90	6400	32400	-11000	-5300	-7800	-4100	-204
1957-58	-4500	-2700	-1510	-630	20	500	5000	36100	-9000	-10600	-4400	-7100	138
1958-59	-2400	-5500	-1400	-1000	-1250	280	8000	19700	16000	-11000	-13800	-1900	451
1959-60	-4500	-6000	-3300	-1860	-490	1700	5570	9900	19500	-8590	-12900	-2370	-326
1960-61	-1650	-6180	-3010	-580	190	130	3900	34900	-2000	-14900	-5100	-11300	-434
1961-62	600	-5600	-1820	-1080	140	-570	12000	17400	9000	-10000	-8600	-8400	240
1962-63	-1900	-2700	-3000	-2220	1500	100	7300	18800	2000	-6300	-6500	-4500	201
1963-64	-5700	-3000	-2300	-1140	-1030	-290	3900	19000	17000	-10000	-10700	-2200	263
1964-65	-5900	-4000	-3500	-640	-640	-480	12100	15400	5000	-6000	-4500	-12800	-502
1965-66	-200	-3200	-3100	-1060	-940	570	6200	22600	4000	-4000	-10400	-4600	500
1966-67	-5500	-3600	-1400	-1500	-910	-200	3100	24100	26000	-22000	-10500	-5600	122
1967-68	-5500	-3500	-3000	100	-400	1800	600	25600	15000	0	0	0	2569
1968-69	0	0	0	0	0	0	0	0	0	0	0	0	0
1969-70	0	0	0	0	0	0	0	0	0	0	0	0	0
1970-71	0	0	0	0	0	0	0	0	0	0	0	0	0
1971-72	0	0	0	0	0	0	0	0	0	0	0	0	0
1972-73	0	0	0	0	0	0	0	0	0	0	0	0	0
1973-74	0	0	0	0	0	0	0	0	0	0	0	0	0
1974-75	0	0	0	0	0	0	0	0	0	0	0	0	0
1975-76	0	0	0	0	0	0	0	0	0	0	0	0	0
1976-77	0	0	0	0	0	0	0	0	0	0	0	0	0
1977-78	0	0	0	0	0	0	0	0	0	0	0	0	0
1978-79	0	0	0	0	0	0	0	0	0	0	0	0	0
1979-80	0	0	0	0	0	0	0	0	0	0	0	0	0
1980-81	0	0	0	0	0	0	0	0	0	0	0	0	0
1981-82	0	0	0	0	0	0	0	0	0	0	0	0	0
1982-83	0	0	0	0	0	0	0	0	0	0	0	0	0
1983-84	0	0	0	0	0	0	0	0	0	0	0	0	0
1984-85	0	0	0	0	0	0	0	0	0	0	0	0	0
1985-86	0	0	0	0	0	0	0	0	0	0	0	0	0
1986-87	0	0	0	0	0	0	0	0	0	0	0	0	0
1987-88	0	0	0	0	0	0	0	0	0	0	0	0	0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	-3356	-3744	-2320	-1247	-475	389	7954	21000	4965	-7295	-8643	-6922	82

ARD3S

USGS # 12239500

HUGH KEENLYSIDE (ARROW LK)

River: COLUMBIA

Drainage Area: 14100 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 780.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-8000	-12500	-7700	
1928-29	-4300	-2900	-2180	-1510	-510	1100	2880	19200	5000	-4200	-3900	-8800	4
1929-30	-5000	-3520	-1130	-960	640	-200	15400	4800	10400	-5200	-6400	-7300	84
1930-31	-6800	-2740	-1830	-320	-510	1240	5100	14700	10000	-4700	-6800	-8200	-80
1931-32	-3500	-2800	-1800	-1880	840	1800	8500	14800	18000	-14800	-4800	-12100	-26
1932-33	-2700	-1600	-2500	-1580	-1210	-30	6900	19800	17000	-12000	-9700	-10700	121
1933-34	-700	-3600	-4100	-1000	-1290	1300	28100	13600	-14000	-1200	-8200	-10200	-100
1934-35	-1900	-600	-4100	-870	-200	-490	4000	21300	9000	-2000	-15800	-7100	92
1935-36	-4400	-3300	-1510	-1290	-1040	440	15800	24700	-9200	-7100	-5400	-7800	10
1936-37	-4800	-3550	-1770	-1290	-100	160	3680	18000	9900	-5600	-9000	-4400	90
1937-38	1000	-6900	-3700	-1310	-1010	1090	8600	24600	6000	-14800	-9300	-800	284
1938-39	-8300	-4000	-1800	-270	-1220	1000	12400	20300	-3800	-1600	-8800	-8100	-336
1939-40	600	-5700	-1300	-3030	-740	2000	7900	21400	-1000	-4700	-7900	-4200	294
1940-41	-100	-9800	-2120	-1450	-850	2700	11200	6400	5800	-2700	-6200	-5300	-204
1941-42	-900	-5600	-2300	-2000	-1240	-340	7100	21900	-2200	-200	-8200	-8000	-134
1942-43	-3900	-3600	-1210	-1470	-370	80	13100	10200	6100	0	-11700	-8100	-91
1943-44	-3200	-3860	-1690	-570	-980	-200	7400	16500	3200	-2700	-6200	-3800	328
1944-45	-4300	-4000	-3730	-660	-740	240	1630	24600	3200	-7000	-7600	-7500	-473
1945-46	-3000	-2700	-1690	-720	-330	880	8900	31000	-5000	-8900	-9600	-8100	84
1946-47	-5600	-3100	-670	-650	-30	1490	11900	18200	-1000	-3500	-11500	-4300	96
1947-48	-1700	-5300	-2200	-1790	-750	-260	6640	39800	-8000	-14400	-800	-11300	48
1948-49	-4300	-3500	-2720	-1420	-130	-30	10500	20400	-9500	200	-5700	-7000	-245
1949-50	-3800	0	-2600	-1730	-140	-90	3350	16100	27000	-16000	-10300	-8500	221
1950-51	-4400	-3100	-500	-2300	-380	-850	7000	23700	1400	-2000	-14100	-6500	-166
1951-52	-2500	-3700	-2360	-550	-390	30	13700	20200	-1000	-8200	-9200	-3900	169
1952-53	-6400	-3790	-1250	10	-130	120	4540	20800	5000	-6200	-5800	-8600	-136
1953-54	-1000	-2600	-3700	-2290	350	-620	1860	32600	5000	-6000	-9600	-11000	270
1954-55	-5700	1500	-5200	-2300	-1400	-790	3000	15900	28800	-13000	-15200	-8900	-335
1955-56	-100	-5000	-2400	-1060	-980	170	13000	28600	-7000	-6600	-10300	-3800	397
1956-57	-5400	-4400	-1400	-2010	-340	90	6400	32400	-11000	-5300	-7800	-4100	-204
1957-58	-4500	-2700	-1510	-630	20	500	5000	36100	-9000	-10600	-4400	-7100	138
1958-59	-2400	-5500	-1400	-1000	-1250	280	8000	19700	16000	-11000	-13800	-1900	451
1959-60	-4500	-6000	-3300	-1860	-490	1700	5570	9900	19500	-8590	-12900	-2370	-326
1960-61	-1650	-6180	-3010	-580	190	130	3900	34900	-2000	-14900	-5100	-11300	-434
1961-62	600	-5600	-1820	-1080	140	-570	12000	17400	9000	-10000	-8600	-8400	240
1962-63	-1900	-2700	-3000	-2220	1500	100	7300	18800	2000	-6300	-6500	-4500	201
1963-64	-5700	-3000	-2300	-1140	-1030	-290	3900	19000	17000	-10000	-10700	-2200	263
1964-65	-5900	-4000	-3500	-640	-640	-480	12100	15400	5000	-6000	-4500	-12800	-502
1965-66	-200	-3200	-3100	-1060	-940	570	6200	22600	4000	-4000	-10400	-4600	500
1966-67	-5500	-3600	-1400	-1500	-910	-200	3100	24100	26000	-22000	-10500	-5600	122
1967-68	-5500	-3500	-3000	100	-400	1800	600	25600	15000	4286	-961	433	2886
1968-69	-360	144	-2700	-7721	-14746	-4643	6909	44072	53334	2120	-10469	-2963	5313
1969-70	-8863	-26629	-37249	-32107	-1401	-3029	867	21759	89630	16566	-11825	-17717	-964
1970-71	-16126	-23904	-25050	-20577	1923	-10760	7972	38331	54961	22977	309	-5019	2017
1971-72	-7344	-25957	-40443	-32225	-8583	526	-2859	37000	61166	24393	33	-6610	-100
1972-73	1454	-9570	-47898	-32944	-16074	3323	-6960	39889	63397	9949	-19837	-17178	-2705
1973-74	-17560	1311	6745	1124	4285	-4408	17935	31174	131359	75302	1176	-23210	18745
1974-75	-20780	-30247	-34664	-35126	-33446	-24158	-23624	42550	100143	86731	-2574	5133	2677
1975-76	4161	-8355	-6912	-23706	-24063	-26278	1902	53563	71280	68344	2269	-776	9394
1976-77	-22490	-24374	-43347	-42803	-27492	-18169	-13024	7185	47895	10141	7548	-12883	-10963
1977-78	-8163	-18924	-1862	-11169	-22381	-22664	7528	29470	96944	68981	8896	1436	10825
1978-79	-14481	-12844	-35346	-62822	-32970	-21090	-13209	30954	76327	37670	-11614	-4080	-5249
1979-80	-16970	-22559	-48819	-32126	-28226	-13016	15810	92356	74777	28140	-11142	5455	3637
1980-81	4196	-14601	-31863	-48683	-42832	-15724	9548	63501	42221	46400	-1017	-7554	576
1981-82	-8322	-7106	-29816	-47229	-18230	-36033	-43869	19976	129037	47542	-1178	-772	278
1982-83	-6391	-12604	-21593	-45180	-39439	-32095	-13059	32126	79728	63184	481	-303	589
1983-84	-10266	-3769	-34595	-32539	-52791	-28178	15368	-221	105488	82697	5583	566	3977
1984-85	-12495	-4237	-34944	-70257	-62826	-32702	4835	66246	81101	33418	8292	4539	-1336
1985-86	-6821	-16094	-52625	-43815	-31251	-6308	1769	36572	121498	28322	-4749	-7796	1573
1986-87	-572	-18367	-41762	-67916	-39137	-5135	8290	65506	64052	23260	-8693	-14259	-2737
1987-88	-29081	-25873	-40442	-51976	-38479	-12629	9359	54019	81607	41224	-8732	-24436	-3750
1988-89	-12115	-14884	-36662	-57677	-41981	-7641	5452	46859	85911	49143	32081	-2269	4067
MEAN	-5633	-7692	-12043	-13891	-9658	-5004	5162	27750	31320	9339	-5997	-6567	647

ARD3SS

USGS # 12239500

HUGH KEENLYSIDE (ARROW LK)

River: COLUMBIA

Drainage Area: 14100 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 780.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										109200	68360	36630	
1928-29	19820	12540	8756	6600	<u>4990</u>	6771	11160	48810	110900	77620	66500	35520	34310
1929-30	16770	9969	8043	7656	8022	8117	35050	59970	104400	98630	72120	40040	39230
1930-31	14770	9519	6684	6422	5805	7647	15600	67910	114200	88130	59950	42750	36770
1931-32	23360	16680	11280	8156	8949	14200	30040	83850	141400	96650	73930	34600	45340
1932-33	20760	16390	12810	9634	7417	7884	17770	65680	128800	124100	79440	41030	44540
1933-34	27810	23400	14050	12100	9798	13290	<u>56580</u>	108800	113400	89220	63270	35560	47460
1934-35	22390	21280	12510	9940	11500	9441	15050	58700	116800	121000	64410	39820	42090
1935-36	19780	10790	8694	7048	5202	6846	28970	97280	117700	84190	61640	33300	40220
1936-37	17790	8624	<u>6475</u>	<u>4814</u>	5006	<u>5439</u>	11560	47430	95930	85570	51240	37100	31560
1937-38	22790	19120	10870	8954	7143	9096	21830	69710	121700	92360	<u>44370</u>	43070	39380
1938-39	20890	11570	8392	8308	6157	7693	26200	89080	85350	91290	61090	33830	37720
1939-40	25100	16710	15580	8998	8424	11320	26790	78240	105000	92460	57590	45840	41100
1940-41	34100	13990	9937	8083	7330	11430	33100	58890	86470	79230	55980	36490	36420
1941-42	31930	18100	14680	8314	7144	6679	17570	60270	89220	96400	63110	28700	37070
1942-43	18910	9862	8079	5976	6129	6033	27460	44390	<u>77070</u>	101800	58490	27380	32820
1943-44	19350	9734	7708	6783	5629	5649	15960	53610	88920	<u>62340</u>	53810	38690	<u>30730</u>
1944-45	24100	16310	8675	8019	7059	7432	<u>9917</u>	57010	95020	75720	49360	28430	32400
1945-46	15450	10330	7473	6895	6319	7714	21280	100000	129100	98300	58030	33740	41430
1946-47	<u>14090</u>	<u>8505</u>	8332	6997	7426	8963	27460	82750	117600	98620	51460	33490	38980
1947-48	30200	16550	10100	7782	6665	6388	15620	91130	155200	75970	66090	38000	43360
1948-49	23420	14160	8570	6714	6959	7032	24210	86310	83080	67200	55140	30270	34610
1949-50	15710	14340	11520	6559	6936	7598	13390	48170	138300	128200	66350	39070	41530
1950-51	20730	15300	12950	9689	8459	7018	20120	87760	95260	110600	54030	27340	39350
1951-52	21440	11200	8235	6918	6777	6397	25110	80780	105200	92810	59630	29060	37920
1952-53	18260	8910	7282	7412	7335	7045	12910	65140	106600	95260	60350	34590	36100
1953-54	26220	20550	12660	8926	9439	8695	11730	71940	119900	<u>148900</u>	80360	50560	47760
1954-55	23590	23580	15150	10390	8734	7478	13130	40400	128900	127900	61820	32830	41330
1955-56	20500	15500	10020	8702	6725	7570	27200	87560	126900	97410	57680	34820	41800
1956-57	23440	13360	10060	7671	7229	7564	17100	<u>122900</u>	114000	77560	48170	32170	40330
1957-58	19400	12810	9732	8513	9054	10470	20360	102100	138100	78330	59150	36050	42170
1958-59	28310	14900	11410	9976	8055	8793	21560	70440	134600	126700	63470	52880	46120
1959-60	32660	21210	14050	9911	9613	10920	26800	52140	113200	123500	61840	37530	42890
1960-61	27820	18470	10910	9584	9974	9717	18310	86000	149700	87150	65450	31190	43850
1961-62	25200	12890	8950	7391	8864	7377	26250	61170	114600	102000	73340	34960	40430
1962-63	24100	19460	13630	9611	11600	10810	23240	61900	116200	99020	66160	44810	41860
1963-64	22730	14400	10360	8804	7287	7091	13700	52710	142900	134000	70190	39100	43700
1964-65	<u>35410</u>	20170	10880	9600	8462	8166	24890	62120	116400	102800	81520	28870	42670
1965-66	23830	20600	11630	9413	8174	8673	22660	77760	124100	118100	70930	40130	44880
1966-67	24600	15480	12600	10170	9301	8408	13660	60430	179300	129600	74070	47160	48890
1967-68	26880	17730	10260	10060	10260	13830	14300	70070	139100	133000	72380	48480	47310
1968-69	25450	17430	11000	9307	7742	8120	31230	88520	138000	81860	54860	35290	42540
1969-70	25580	19210	12960	9810	7366	7007	11110	49770	114600	81180	55580	<u>26890</u>	35230
1970-71	16930	11820	9062	8230	10170	7748	18830	88620	124300	95730	77440	33180	42040
1971-72	21050	15780	12230	9361	7249	12310	17210	87620	<u>186000</u>	125500	82610	34110	51020
1972-73	19750	13730	10300	10760	8126	10050	15840	63290	98200	86350	54660	30020	35260
1973-74	22060	18610	11790	10280	9489	9399	24890	58520	146500	122300	75250	43780	46240
1974-75	18930	11830	12560	10450	9558	6862	15700	53970	105300	111300	58150	34150	37580
1975-76	25950	<u>28280</u>	17730	12960	9874	11110	23110	86330	95850	135700	<u>109300</u>	<u>66620</u>	<u>52110</u>
1976-77	25720	15810	11360	13330	9336	9647	24750	58590	100400	71920	64930	32310	36660
1977-78	14990	13520	9722	9811	9599	13070	26320	56880	105800	105100	61120	63100	40880
1978-79	30730	22440	14190	12250	11000	11060	18040	59400	97000	89450	56890	36770	38440
1979-80	19440	10660	16410	9516	9458	9779	36830	99860	95500	73700	47310	33770	38620
1980-81	27150	20980	<u>18600</u>	14650	<u>16350</u>	14210	22370	89480	94500	112500	80960	42460	46440
1981-82	25160	23620	15160	12220	10490	12950	17610	61070	145200	113700	72940	52100	47010
1982-83	28090	17960	13550	11490	14100	<u>18790</u>	28190	70600	105000	105700	67680	36370	43320
1983-84	18970	25390	13190	12030	15930	13520	21290	<u>38640</u>	110900	106900	71030	38390	40550
1984-85	22990	14460	12060	15370	13350	8474	24070	82750	99550	83840	49930	29100	38160
1985-86	26020	18000	12550	11170	11960	15360	24460	68610	137100	93630	62510	29320	42700
1986-87	18390	16350	13530	14250	10980	15590	26350	90640	113800	80410	49250	34470	40490
1987-88	14330	12620	11160	11430	9771	11610	36190	73730	111800	83960	58510	33000	39060
1988-89	23670	18390	14230	<u>16270</u>	11110	9379	25230	66510	109100	79870	65600	31700	39410
MEAN	22880	15930	11370	9482	8760	9422	22050	71550	116600	99350	63850	37300	40860
MEDIAN	22990	15780	11280	9413	8459	8673	21830	68610	114000	96530	62170	35400	40880

ARD3A

USGS # 12301921 **LIBBY**
Monthly mean historical streamflow in cfs.

River: KOOTENAI

Drainage Area: 8985 Sq. Mi.
River Mile: 221.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										24680	8958	5220	
1928-29	6047	3600	2621	2187	2400	2529	3524	19510	36370	14090	7577	4851	8792
1929-30	3553	2300	2512	2154	2715	2492	10470	19450	33820	18320	8390	5323	9305
1930-31	3912	3034	2344	2350	2131	2298	3425	18720	22290	10950	5713	4539	6831
1931-32	3230	2657	2462	1947	2768	3870	8511	30820	45510	17270	8591	5753	11110
1932-33	4455	4519	3384	2985	2308	2812	7822	25470	52350	26900	10780	8007	12660
1933-34	8760	8531	8494	6167	4783	6124	<u>27670</u>	43420	30390	14350	7376	4884	14280
1934-35	3893	5233	3181	3170	3832	3303	6191	24180	38890	24370	10230	5529	11030
1935-36	3852	3084	2532	2078	<u>1637</u>	2689	10870	29080	23550	9849	5648	<u>4021</u>	8252
1936-37	<u>3033</u>	<u>2259</u>	2131	<u>1670</u>	1932	<u>2101</u>	3765	20390	27860	14770	7184	4658	7671
1937-38	4366	5444	3148	3147	2552	3165	11180	33500	43810	17970	6919	5159	11720
1938-39	4383	3352	2519	2886	2097	3248	9618	26350	23260	17440	6776	4769	8932
1939-40	5381	4893	3789	2475	2558	3337	8151	27110	23290	10180	5894	5678	8573
1940-41	5209	3608	2961	2542	2273	3359	8358	17790	18380	9260	5725	8007	7305
1941-42	7895	5577	6721	3511	2920	2787	9513	29520	37130	28290	11590	7058	12770
1942-43	5345	4179	3330	2586	3041	3227	19440	22250	32970	29600	10300	5600	11850
1943-44	4721	3604	2569	2261	2216	2252	3984	15810	20770	8847	6065	4855	<u>6500</u>
1944-45	4306	3143	<u>2117</u>	2168	2132	2196	3017	18880	32130	17560	6988	5694	8383
1945-46	4523	4155	3007	2673	2411	3258	11060	38160	40740	21560	9230	7733	12420
1946-47	5576	3721	3500	2580	3342	4487	11950	40050	35280	18480	8529	7033	12090
1947-48	12670	7849	4551	3259	2893	3064	9424	44700	54860	19070	11820	6452	15070
1948-49	4958	3832	2544	2501	2702	3457	10160	32250	22970	10910	7063	5118	9075
1949-50	4294	4442	3638	2609	2873	3824	7334	23880	50210	29870	10920	6242	12540
1950-51	7187	6594	6128	4307	6061	4127	11930	43960	38150	33950	12370	9931	<u>15450</u>
1951-52	10840	6371	4352	4218	3726	3330	14730	30700	30940	19070	9088	5927	11960
1952-53	4326	3035	2642	3523	3542	2967	5583	22720	44370	25940	10190	5969	11260
1953-54	4812	4235	3251	2464	3281	3379	6308	38120	49060	<u>41870</u>	15070	10060	15230
1954-55	6397	5713	4204	3116	2752	2659	4342	17570	48020	28800	10550	6096	11710
1955-56	7051	6567	4447	3768	2898	3872	13490	<u>44830</u>	51180	24600	9957	5887	14900
1956-57	5364	4021	3238	2257	2583	3329	5842	41280	31540	13280	7244	4853	10450
1957-58	4391	3659	2824	2455	2680	3114	6161	37120	28570	15210	7329	5678	9980
1958-59	5188	4225	3651	3471	2634	3173	9578	29010	55360	28650	11660	15130	14330
1959-60	11180	8014	5856	3852	3908	5319	12980	21290	39690	22830	9623	6424	12580
1960-61	4709	4164	2864	2800	3783	3686	6922	37430	59340	16660	9459	6687	13220
1961-62	7246	4715	3335	2928	3960	2807	11500	23480	36530	17770	9303	5779	10790
1962-63	5201	4928	4058	2542	4263	3401	6364	24690	39380	25570	10210	6641	11460
1963-64	5024	4487	3074	2762	2399	2403	5176	24230	51290	24060	9890	7125	11820
1964-65	7895	5391	3523	3209	3373	3487	9760	25780	45420	22980	11090	7755	12500
1965-66	6842	5510	3860	3474	3358	3482	10060	31610	43050	24100	9723	6073	12630
1966-67	4614	4066	3710	3161	3415	2866	4783	25440	<u>64330</u>	29620	10780	6115	13590
1967-68	4913	4203	2934	3101	3294	3831	4011	23770	42230	23010	9943	7543	11070
1968-69	6692	5538	3585	3206	2725	3320	15170	39330	47350	25160	9142	6047	13980
1969-70	5691	4214	2993	2297	2780	2737	3554	20250	32860	13370	6825	5278	8587
1970-71	4555	3398	2883	2838	4544	2989	8031	39230	47400	25140	11800	6545	13320
1971-72	4761	3983	2774	2510	3055	3955	5670	18760	31210	20170	13180	<u>20940</u>	10910
1972-73	<u>32110</u>	<u>24750</u>	3465	3084	3093	3326	3283	<u>2819</u>	4123	5506	10540	19340	9638
1973-74	10040	7838	2639	8844	18010	10900	11350	16230	18080	17340	12490	11520	12060
1974-75	22510	17780	13370	15340	<u>20550</u>	10360	4548	6935	4126	3320	<u>2821</u>	7863	10740
1975-76	11630	16910	18580	<u>24310</u>	16490	<u>12940</u>	6330	3472	4524	14750	<u>18460</u>	11090	13310
1976-77	15530	14330	14070	12130	9618	9715	8303	4831	3950	10050	7601	6643	9748
1977-78	10010	15770	7384	10830	9194	4095	3104	3512	7827	12370	9241	10400	8634
1978-79	12320	18970	19540	16050	5076	3963	3375	2952	3821	3541	5606	7661	8603
1979-80	12990	19710	15190	11380	6804	3771	3241	3149	14600	10300	7625	7623	9697
1980-81	14350	16030	16990	19410	17410	6784	<u>2927</u>	3140	14010	27330	13740	9224	13440
1981-82	12890	13730	19270	18970	13650	8460	7490	11910	5380	8856	10250	8504	11630
1982-83	13190	20070	16610	19590	16250	6521	4518	5837	4042	10900	9959	10110	11450
1983-84	12480	11510	20580	18300	7416	4245	4079	3675	3811	9991	12100	9000	9806
1984-85	12480	15390	<u>20670</u>	19410	6575	3991	3073	3038	3216	5145	6657	11170	9267
1985-86	18830	19110	13330	17030	4035	4454	4190	3113	10830	16020	8718	16030	11350
1986-87	24490	20640	6195	11160	9163	3877	3034	3026	3733	8129	9220	13100	9646
1987-88	20630	12260	8970	19430	14540	4400	3004	2952	<u>3016</u>	<u>3160</u>	4180	17390	9473
1988-89	15020	16450	17390	8604	8553	3283	3019	3013	3329	4826	17180	8852	9144
MEAN	8536	7890	6368	6262	5245	4085	7640	22060	29780	17870	9340	7842	11090
MEDIAN	5691	4928	3523	3147	3294	3359	6364	23480	32130	17500	9272	6593	11260

LIB3H

USGS # 12301921

LIBBY

River: KOOTENAI

Drainage Area:

8985 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

221.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	0	0	0	0
1968-69	0	0	0	0	0	0	0	0	0	0	0	0	0
1969-70	0	0	0	0	0	0	0	0	0	0	0	0	0
1970-71	0	0	0	0	0	0	0	0	0	0	0	0	0
1971-72	0	0	0	0	499	2300	1074	15440	30740	9124	1106	-13360	3921
1972-73	-23771	-18540	136	-34	-75	45	1972	19644	27650	10608	-3115	-13103	127
1973-74	-5181	-2432	1322	-3381	-13515	-6496	327	12445	50191	14405	211	-4591	3670
1974-75	-18128	-13607	-9759	-12297	-17489	-7224	-152	13525	36130	20488	7681	-153	-1
1975-76	-5819	-10558	-11974	-20523	-12740	-9319	3384	33474	25916	12392	-325	-1150	255
1976-77	-9967	-10401	-10966	-9381	-6692	-6818	-2738	10597	16260	-1658	-18	196	-2637
1977-78	-5611	-12199	-4189	-7399	-6415	-126	5163	21360	30957	10874	-317	-2191	2533
1978-79	-6555	-14624	-16329	-13265	-2108	-475	1134	18737	21567	8484	329	-3150	-527
1979-80	-9615	-16771	-11406	-8879	-4123	-876	8510	35054	14482	1799	-98	-1603	558
1980-81	-8881	-11159	-11365	-13776	-12651	-2292	5171	31084	21847	3547	-113	-2311	-10
1981-82	-7310	-9194	-15436	-15372	-9218	-4395	-1933	13762	38965	12419	-53	-693	132
1982-83	-6679	-14916	-12245	-14847	-11948	-1829	4150	19903	26824	11590	-98	-4172	-297
1983-84	-8067	-5357	-17038	-13502	-3880	-855	2432	9369	32345	9591	-3511	-3094	-183
1984-85	-7912	-11467	-17365	-16247	-4097	-1372	4118	24404	23784	5734	-399	-3420	-362
1985-86	-12020	-13300	-9507	-13541	-544	2113	5793	23301	27561	1188	-362	-9748	56
1986-87	-17679	-14566	-2240	-7984	-6097	690	7804	29935	16531	3089	-2257	-8318	-47
1987-88	-16975	-9156	-6348	-16829	-11924	-1661	6006	19509	24082	8664	1860	-12417	-1245
1988-89	-9302	-11442	-14057	-5539	-6148	-295	6216	22029	29563	9769	-7190	-669	1084
MEAN	-10557	-11746	-9927	-11341	-7176	-2160	3246	20750	27520	8450	-370	-4664	390

LIB3S

USGS # 12301921

LIBBY

River: KOOTENAI

Drainage Area:

8985 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

221.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										24680	8958	5220	
1928-29	6047	3600	2621	2187	2400	2529	3524	19510	36370	14090	7577	4851	8792
1929-30	3553	2300	2512	2154	2715	2492	10470	19450	33820	18320	8390	5323	9305
1930-31	3912	3034	2344	2350	2131	2298	3425	18720	22290	10950	5713	4539	6831
1931-32	3230	2657	2462	1947	2768	3870	8511	30820	45510	17270	8591	5753	11110
1932-33	4455	4519	3384	2985	2308	2812	7622	25470	52350	26900	10780	8007	12660
1933-34	8760	<u>8531</u>	<u>8494</u>	<u>6167</u>	4783	6124	<u>27670</u>	43420	30390	14350	7376	4884	14280
1934-35	3893	5233	3181	3170	3832	3303	6191	24180	38890	24370	10230	5529	11030
1935-36	3852	3084	2532	2078	<u>1637</u>	2869	10870	29080	23550	9849	<u>5648</u>	<u>4021</u>	8252
1936-37	<u>3033</u>	<u>2259</u>	2131	<u>1670</u>	1932	<u>2101</u>	3765	20390	27860	14770	7184	4658	7671
1937-38	4366	5444	3148	3147	2552	3185	11180	33500	43810	17970	6919	5159	11720
1938-39	4383	3352	2519	2886	2097	3248	9618	26350	23260	17440	6776	4769	8932
1939-40	5381	4893	3789	2475	2558	3337	8151	27110	23290	10180	5894	5678	8573
1940-41	5209	3608	2961	2542	2273	3359	8358	17790	<u>18380</u>	9260	5725	8007	7305
1941-42	7895	5577	6721	3511	2920	2787	9513	29520	37130	28290	11590	7058	12770
1942-43	5345	4179	3330	2586	3041	3227	19440	22250	32970	29600	10300	5600	11850
1943-44	4721	3604	2569	2261	2216	2252	3984	15810	20770	8847	6065	4855	<u>6500</u>
1944-45	4306	3143	<u>2117</u>	2168	2132	2196	<u>3017</u>	18880	32130	17560	6988	5694	8383
1945-46	4523	4155	3007	2673	2411	3258	11060	38160	40740	21560	9230	7733	12420
1946-47	5576	3721	3500	2580	3342	4467	11950	40050	35280	18480	8529	7033	12090
1947-48	<u>12670</u>	7849	4551	3259	2893	3064	9424	44700	54860	19070	11820	6452	15070
1948-49	4958	3832	2544	2501	2702	3457	10160	32250	22970	10910	7063	5118	9075
1949-50	4294	4442	3638	2609	2873	3824	7334	23880	50210	29870	10920	6242	12540
1950-51	7187	6594	6128	4307	<u>6061</u>	4127	11930	43960	38150	33950	12370	9931	15450
1951-52	10840	6371	4352	4218	3726	3330	14730	30700	30940	19070	9088	5927	11960
1952-53	4326	3035	2642	3523	3542	2967	5583	22720	44370	25940	10190	5969	11260
1953-54	4812	4235	3251	2464	3281	3379	6308	38120	49060	<u>41870</u>	15070	10060	15230
1954-55	6397	5713	4204	3116	2752	2659	4342	17570	48020	28800	10550	6096	11710
1955-56	7051	6567	4447	3768	2898	3872	13490	<u>44830</u>	51180	24600	9957	5887	14900
1956-57	5364	4021	3238	2257	2583	3329	5842	41280	31540	13280	7244	4853	10450
1957-58	4391	3659	2824	2455	2680	3114	6161	37120	28570	15210	7329	5678	9980
1958-59	5188	4225	3651	3471	2634	3173	9578	29010	55360	28650	11680	<u>15130</u>	14330
1959-60	11180	8014	5858	3852	3908	5319	12980	21290	39690	22830	9623	6424	12580
1960-61	4709	4164	2864	2800	3783	3686	6922	37430	59340	16660	9459	6687	13220
1961-62	7246	4715	3335	2928	3960	2807	11500	23480	36530	17770	9303	5779	10790
1962-63	5201	4928	4058	2542	4263	3401	6364	24690	39380	25570	10210	6641	11460
1963-64	5024	4487	3074	2762	2399	2403	5176	24230	51290	24060	9890	7125	11820
1964-65	7895	5391	3523	3209	3373	3487	9760	25780	45420	22980	11090	7755	12500
1965-66	6842	5510	3860	3474	3358	3482	10060	31610	43050	24100	9723	6073	12630
1966-67	4614	4066	3710	3161	3415	2866	4783	25440	64330	29620	10780	6115	13590
1967-68	4913	4203	2934	3101	3294	3831	4011	23770	42230	23010	9943	7543	11070
1968-69	6692	5538	3585	3206	2725	3320	15170	39330	47350	25160	9142	6047	13980
1969-70	5691	4214	2993	2297	2780	2737	3554	20250	32860	13370	6825	5278	8587
1970-71	4555	3398	2883	2838	4544	2989	8031	39230	47400	25140	11800	6545	13320
1971-72	4761	3983	2774	2510	3555	6255	6744	34200	61950	29290	14280	7577	14830
1972-73	8335	6210	3600	3050	3018	3371	5256	22460	31770	16110	7427	6234	9764
1973-74	4854	5406	3962	5463	4496	4408	11680	28680	<u>68280</u>	31740	12700	6930	<u>15730</u>
1974-75	4385	4176	3609	3039	3061	3140	4396	20460	40260	23810	10500	7710	10740
1975-76	5815	6349	6603	3783	3746	3621	9714	36950	30440	27140	<u>18140</u>	9945	13570
1976-77	5565	3930	3102	2745	2925	2898	5565	15430	20210	<u>8396</u>	7583	6838	7111
1977-78	4398	3575	3195	3428	2779	3968	8268	24870	38780	23240	8925	8213	11170
1978-79	5766	4349	3208	2782	2968	3489	4509	21690	25390	12030	5935	4511	8075
1979-80	3373	2936	3783	2505	2681	2895	11750	38200	29080	12100	7527	6020	10260
1980-81	5465	4871	5625	5633	4756	4492	8098	34220	35860	30880	13620	6913	13430
1981-82	5579	4534	3830	3595	4431	4065	5557	25670	44340	21280	10200	7811	11760
1982-83	6508	5154	4368	4740	4301	4692	8667	25740	30870	22490	9861	5939	11150
1983-84	4410	6156	3520	4799	3535	3390	6512	<u>13040</u>	36160	19580	8589	5906	9622
1984-85	4563	3926	3309	3162	2478	2619	7191	27440	27000	10880	6258	7745	8905
1985-86	6809	5806	3821	3489	3491	<u>6567</u>	9983	26410	38390	17210	8356	6282	11410
1986-87	6811	6073	3955	3175	3065	4567	10840	32960	20260	11220	6964	4784	9599
1987-88	3651	3107	2622	2598	2614	2739	9010	22460	27100	11820	6040	4977	8228
1988-89	5716	5008	3333	3065	2404	2988	9235	25040	32890	14590	9989	8184	10230
MEAN	5594	4617	3601	3102	3128	3447	8598	28180	37900	20320	9232	6488	11210
MEDIAN	5188	4235	3333	2985	2920	3320	8268	25780	36530	19330	9186	6085	11260

LIB3A

USGS # 12309501

BONNERS FERRY

River: KOOTENAI

Drainage Area: 12690 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 152.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										28710	11030	6844	
1928-29	7900	5407	3835	3035	3258	4150	7060	29020	41760	15210	7845	5289	11170
1929-30	4297	3222	3371	2845	3750	4149	18010	26110	39600	20240	8988	5893	11720
1930-31	4795	3929	2988	3006	3078	3843	6811	27120	25510	12320	6425	5225	8783
1931-32	4024	3616	3038	2778	4278	7013	17320	47770	56200	20580	9968	6684	15270
1932-33	5282	6500	5999	4501	3390	4459	15180	40720	70450	33220	12580	9220	17660
1933-34	10470	12210	14910	12460	9195	11690	<u>44990</u>	56450	36090	16400	8420	5581	19940
1934-35	4860	8863	4761	5554	6480	5647	11850	39110	49160	27680	11540	6510	15200
1935-36	4783	3912	3224	2999	<u>2086</u>	4013	19690	41260	28750	11280	6556	<u>4863</u>	11130
1936-37	<u>3643</u>	<u>2825</u>	2995	<u>2026</u>	2482	2847	7459	31880	36790	17300	8203	5437	10360
1937-38	4983	7428	4781	5047	3780	5443	22130	48950	54060	21370	7926	5808	16010
1938-39	5111	4108	3298	3910	2853	4813	16240	36500	28400	19590	7806	5470	11560
1939-40	5913	5667	4952	3153	3505	5415	13680	35510	26930	11090	6435	6057	10710
1940-41	5594	4273	3637	3210	2926	4799	12220	23530	21570	10490	6295	9104	8989
1941-42	10140	7875	12650	5100	4168	4213	16470	39870	46890	33090	13010	7752	16840
1942-43	6078	5432	4516	3435	4021	4792	35830	35110	44690	34930	12040	6258	16460
1943-44	5274	4226	3295	2977	2824	<u>2812</u>	5612	19950	23540	9996	6632	5350	<u>7712</u>
1944-45	4837	3807	<u>2642</u>	3025	3084	3092	<u>4965</u>	29960	38820	19490	7700	6321	10680
1945-46	5351	5583	4237	3851	3274	5609	20400	54630	50870	25070	10320	8602	16540
1946-47	6700	4975	5540	4500	5979	8551	22650	57400	42960	20770	9616	7905	16510
1947-48	16920	11130	6626	5177	4563	5046	18180	64260	69640	23120	13880	7552	20530
1948-49	5945	4668	3379	3313	3770	4894	20470	50130	28740	12430	7766	5617	12640
1949-50	5131	6298	5587	3700	4470	7280	15440	41860	68250	36550	12620	6801	17870
1950-51	9128	9671	10660	7515	12570	6867	21060	62110	46450	37270	13900	11240	20750
1951-52	13650	8357	6662	5529	5217	4874	27500	45920	38290	22910	10670	6802	16380
1952-53	5025	3783	3194	5471	6547	4770	11180	37390	54270	28870	11470	6709	14910
1953-54	5384	5127	4229	3133	4438	5329	13630	60090	64490	<u>49660</u>	17310	11500	20450
1954-55	7614	7384	5633	4077	3575	3494	7201	30170	62430	33530	12110	6968	15380
1955-56	9217	10140	7548	6813	4536	6653	28000	<u>68650</u>	63130	28510	11630	6958	<u>21010</u>
1956-57	6423	4785	4210	2765	3343	5680	11480	60000	37780	15300	8153	5461	13860
1957-58	5105	4366	3504	3222	3983	5064	12120	50530	32180	16630	7869	6212	12620
1958-59	5989	6005	5617	6149	4229	4738	19450	44360	68350	32730	12640	17150	18980
1959-60	14220	11390	9117	5263	5791	8980	23620	33610	49390	25600	10790	7053	17070
1960-61	5592	5686	3976	4259	7290	6799	13230	56410	73140	19190	9883	7097	17720
1961-62	7810	5637	4402	4099	5065	4105	20440	34730	43790	19920	10400	6496	13920
1962-63	6212	7086	6743	4297	7333	5911	12090	35280	46640	28270	11320	7181	14890
1963-64	5572	5647	4465	4204	3527	3468	10090	37780	65310	27280	11040	7949	15520
1964-65	8728	6679	5154	4917	5514	5762	19980	40110	57030	25940	11860	8347	16690
1965-66	7546	6665	4945	4199	4137	5420	19230	47770	54130	27220	10120	6186	16510
1966-67	5070	4617	4786	4377	5402	4864	9003	41090	<u>79990</u>	32430	10790	6338	17410
1967-68	5382	5120	4015	4344	5958	8023	7733	35370	51230	25880	10920	8820	14400
1968-69	8818	8295	5787	5174	4585	5893	28820	55630	57770	29650	10400	7226	19050
1969-70	7181	5599	3909	2907	3940	4231	6961	33010	41180	15450	7942	6264	11570
1970-71	5569	4003	3518	4650	9769	5112	17170	61590	60570	30880	13520	7864	18720
1971-72	5869	5306	3653	3318	4750	13550	12700	35270	41940	22980	14000	<u>21670</u>	15420
1972-73	<u>34490</u>	<u>28000</u>	4653	4426	4014	4748	6567	9975	6898	6107	10760	20180	11760
1973-74	11520	10920	4788	17540	23530	15710	22980	33040	36420	23110	14210	12360	18790
1974-75	25510	21760	16360	18420	<u>26160</u>	13750	9077	21490	15230	6182	<u>4003</u>	9490	15550
1975-76	13970	21340	<u>27880</u>	<u>32040</u>	21680	<u>16530</u>	15470	18250	10800	18350	<u>20900</u>	11510	19090
1976-77	17760	17570	16850	14500	11920	11520	12680	<u>9739</u>	<u>5246</u>	11700	8729	7518	12160
1977-78	11670	19260	10700	12860	11620	7796	10020	14910	13840	15220	10780	12000	12550
1978-79	14190	22390	22880	20860	6550	6399	8075	14200	7515	4504	6497	8518	11930
1979-80	14070	22100	17960	13860	8540	5280	11190	13090	19450	11700	8718	8426	12860
1980-81	15680	18910	23450	24600	22630	10230	8800	14070	20800	31110	14960	10120	17940
1981-82	14600	16400	23050	22260	20740	13810	14380	27640	15830	12590	11590	9627	16880
1982-83	14760	22600	19520	22880	20370	11930	11370	16950	10130	13860	11310	10670	15510
1983-84	13860	14400	22640	20820	9412	6064	8389	10620	10370	11860	13060	10290	12690
1984-85	13840	17840	23880	21840	7709	5414	10310	13870	8447	5867	7286	11750	12380
1985-86	21890	25280	15740	20200	7394	12440	12590	12060	14440	17740	9920	17090	15610
1986-87	27840	26490	8317	13330	11260	8443	11380	11750	6327	9446	10070	13770	13200
1987-88	22330	14210	10440	22210	17190	6492	11660	9770	5815	<u>4029</u>	4606	18600	12250
1988-89	17470	20040	20840	10940	10530	5590	12630	13740	8588	6141	18500	10000	12940
MEAN	9911	9947	8458	8260	7376	6661	15130	35230	38280	20750	10460	8702	14940
MEDIAN	7181	6665	4952	4501	4750	5443	12700	35280	39600	20080	10540	7372	15380

BFE3H

USGS # 12309501

BONNERS FERRY

River: KOOTENAI

Drainage Area: 12690 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 152.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										28710	11030	6844	
1928-29	7900	5407	3835	3035	3258	4150	7060	29020	41760	15210	7845	5289	11170
1929-30	4297	3222	3371	2845	3750	4149	18010	26110	39600	20240	8988	5893	11720
1930-31	4795	3929	2988	3006	3078	3843	6811	27120	25510	12320	6425	5225	8783
1931-32	4024	3616	3038	2778	4278	7013	17320	47770	56200	20580	9968	6684	15270
1932-33	5262	6500	5999	4501	3390	4459	15180	40720	70450	33220	12580	9220	17660
1933-34	10470	<u>12210</u>	14910	12460	9195	11690	<u>44990</u>	56450	36090	16400	8420	5581	19940
1934-35	4860	8863	4761	5554	6480	5647	11850	39110	49160	27680	11540	6510	15200
1935-36	4783	3912	3224	2999	<u>2086</u>	4013	19690	41260	28750	11280	6556	<u>4863</u>	11130
1936-37	<u>3643</u>	<u>2825</u>	2995	<u>2026</u>	2482	2847	7459	31880	36790	17300	8203	5437	10360
1937-38	4983	7428	4781	5047	3780	5443	22130	48950	54060	21370	7928	5808	16010
1938-39	5111	4108	3298	3910	2853	4813	16240	36500	28400	19590	7806	5470	11560
1939-40	5913	5667	4952	3153	3505	5415	13680	35510	26930	11090	6435	6057	10710
1940-41	5594	4273	3637	3210	2926	4799	12220	23530	21570	10490	<u>6295</u>	9104	8989
1941-42	10140	7875	12650	5100	4168	4213	16470	39870	46890	33090	13010	7752	16840
1942-43	6078	5432	4516	3435	4021	4792	35830	35110	44690	34930	12040	6258	16460
1943-44	5274	4226	3295	2977	2824	<u>2812</u>	5612	<u>19950</u>	23540	<u>9996</u>	6632	5350	<u>7712</u>
1944-45	4837	3807	<u>2642</u>	3025	3084	3092	<u>4965</u>	29960	38820	19490	7700	6321	10680
1945-46	5351	5583	4237	3851	3274	5609	20400	54630	50870	25070	10320	8602	16540
1946-47	6700	4975	5540	4500	5979	8551	22650	57400	42960	20770	9616	7905	16510
1947-48	<u>16920</u>	11130	6626	5177	4563	5046	18180	64260	69640	23120	13880	7552	20530
1948-49	5945	4668	3379	3313	3770	4894	20470	50130	28740	12430	7766	5817	12640
1949-50	5131	6298	5587	3700	4470	7280	15440	41860	68250	36550	12620	6801	17870
1950-51	9128	9671	10660	7515	<u>12570</u>	6867	21060	62110	46450	37270	13900	11240	20750
1951-52	13650	8357	6662	5529	5217	4874	27500	45920	38290	22910	10670	6802	16380
1952-53	5025	3783	3194	5471	6547	4770	11180	37390	54270	28870	11470	6709	14910
1953-54	5384	5127	4229	3133	4438	5329	13630	60090	64490	<u>49660</u>	17310	11500	20450
1954-55	7614	7384	5633	4077	3575	3494	7201	30170	62430	33530	12110	6968	15380
1955-56	9217	10140	7548	6813	4536	6653	28000	<u>68650</u>	63130	28510	11630	6958	21010
1956-57	6423	4785	4210	2765	3343	5680	11480	60000	37780	15300	8153	5461	13860
1957-58	5105	4366	3504	3222	3983	5064	12120	50530	32180	16630	7869	6212	12620
1958-59	5989	6005	5617	6149	4229	4738	19450	44360	68350	32730	12640	<u>17150</u>	18980
1959-60	14220	11390	9117	5263	5791	8980	23620	33610	49390	25600	10790	7053	17070
1960-61	5592	5686	3976	4259	7290	6799	13230	56410	73140	19190	9883	7097	17720
1961-62	7810	5637	4402	4099	5065	4105	20440	34730	43790	19920	10400	6496	13920
1962-63	6212	7086	6743	4297	7333	5911	12090	35280	46640	28270	11320	7181	14890
1963-64	5572	5647	4465	4204	3527	3468	10090	37780	65310	27280	11040	7949	15520
1964-65	8728	6679	5154	4917	5514	5762	19980	40110	57030	25940	11860	8347	16690
1965-66	7546	6665	4945	4199	4137	5420	19230	47770	54130	27220	10120	6186	16510
1966-67	5070	4617	4786	4377	5402	4864	9003	41090	79990	32430	10790	6338	17410
1967-68	5382	5120	4015	4344	5958	8023	7733	35370	51230	25880	10920	8820	14400
1968-69	8818	8295	5787	5174	4585	5893	28820	55630	57770	29650	10400	7226	19050
1969-70	7181	5599	3909	2907	3940	4231	6961	33010	41180	15450	7942	6264	11570
1970-71	5569	4003	3518	4650	9769	5112	17170	61590	60570	30880	13520	7864	18720
1971-72	5869	5306	3653	3318	5249	<u>15850</u>	13780	50710	72680	32110	15110	8313	19340
1972-73	10720	9460	4789	4392	3939	4793	8540	29620	34550	16720	7644	7079	11880
1973-74	6338	8485	6110	<u>14160</u>	10010	9212	23310	45480	<u>86610</u>	37520	14420	7773	<u>22460</u>
1974-75	7383	8153	6602	6123	8668	6522	8925	35010	51360	26670	11680	9338	15550
1975-76	8156	10780	<u>15910</u>	11520	8940	7209	18850	51720	36710	30740	<u>20580</u>	10360	19350
1976-77	7795	7174	5883	5117	5225	4705	9947	20340	<u>21510</u>	10040	8711	7714	9526
1977-78	6058	7056	6515	5462	5209	7670	15180	36270	44800	26100	10460	9806	15080
1978-79	7632	7769	6551	7600	4441	5924	9210	32940	29080	12990	6827	5368	11400
1979-80	4452	5328	6554	4978	4417	4404	19700	48140	33930	13500	8620	6823	13420
1980-81	6800	7753	12080	10820	9977	7937	13970	45150	42650	34660	14850	7809	17930
1981-82	7286	7203	7618	6890	11520	9410	12450	41400	54790	25010	11540	8934	17010
1982-83	8086	7683	7278	8030	8417	10110	15520	36850	36950	25450	11210	6496	15210
1983-84	5792	9043	5602	7320	5532	5209	10820	19990	42720	21460	9550	7198	12500
1984-85	5926	6370	6515	5590	3613	4042	14430	38280	32230	11600	6886	8330	12020
1985-86	9871	11980	6238	6663	6850	14550	18380	35360	42000	18930	9558	7341	15670
1986-87	10170	11920	6077	5345	5162	9133	19180	41690	22860	12540	7809	5451	13160
1987-88	5350	5050	4089	5385	5269	4831	17670	29280	29900	12690	6465	6179	11000
1988-89	8165	8597	6783	5404	4381	5295	18850	35770	38150	15910	11310	9335	14020
MEAN	6968	6674	5692	5100	5259	6023	16090	41360	46400	23200	10350	7349	15060
MEDIAN	6058	6298	4952	4501	4470	5295	15440	39870	43790	23010	10400	6963	15270

BFE3A

USGS # 12322405 **DUNCAN**
Monthly mean historical streamflow in cfs.

River: DUNCAN

Drainage Area: 942 Sq. Mi.
River Mile: 8.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										10290	5190	2247	
1928-29	1818	1051	650	399	323	378	525	3580	9227	6183	4160	2177	2550
1929-30	967	573	<u>475</u>	388	<u>312</u>	367	1514	3500	7387	7173	4650	2417	2489
1930-31	1118	736	486	443	433	541	845	4860	7997	7373	4240	2827	2672
1931-32	1258	866	617	553	631	748	1654	6620	11800	9743	5910	2957	3621
1932-33	1478	1252	1185	784	510	498	1034	4830	14400	<u>16490</u>	8540	4347	<u>4639</u>
1933-34	3048	2562	1455	1115	850	944	<u>3634</u>	8080	8777	8536	5912	3163	4026
1934-35	1424	1543	944	725	794	587	909	4419	10690	10900	6060	3709	3574
1935-36	1519	1022	655	574	387	496	1899	7734	10830	8526	4605	2469	3402
1936-37	1329	640	530	414	373	384	653	3998	8218	8316	4943	3569	2795
1937-38	2025	2022	976	783	590	691	1501	5920	11220	8760	4028	3895	3546
1938-39	1853	1013	668	659	497	509	1694	7480	7415	9149	5971	3037	3351
1939-40	3020	1808	1361	863	732	805	1765	6560	9294	8063	5369	4269	3668
1940-41	2551	1196	849	717	622	827	2439	5131	8351	7310	5048	3402	3218
1941-42	2651	1562	1243	788	645	602	1433	5015	7569	9410	5746	2591	3293
1942-43	1512	897	762	591	542	511	2304	3669	6847	10460	5650	2586	3047
1943-44	1696	887	677	572	491	454	984	4324	7776	5490	5240	3297	2663
1944-45	2161	1428	796	615	515	460	604	4211	8710	7625	4568	2378	2854
1945-46	1127	850	594	541	479	546	1431	8387	11770	10300	6022	3361	3805
1946-47	1267	790	727	541	544	617	1840	7564	10840	10340	4846	3111	3604
1947-48	2939	1561	962	708	579	541	1077	7171	13660	7199	5973	3076	3793
1948-49	1459	855	582	463	416	423	1311	7254	7364	5900	4712	2646	2799
1949-50	1235	1085	917	568	482	482	769	3389	12000	12080	6687	3525	3617
1950-51	1775	1261	892	823	733	522	1439	7044	8845	12960	5968	2720	3775
1951-52	2199	1018	775	590	587	535	1564	6547	10110	8807	5642	2412	3410
1952-53	1507	651	542	563	597	541	760	5025	10190	11090	6634	3051	3450
1953-54	2061	1590	1056	714	663	646	758	5861	10740	15210	8247	4512	4368
1954-55	1597	1141	1090	706	575	605	684	2670	12310	13280	6521	3287	3724
1955-56	1646	1486	751	513	519	540	1927	7646	12410	10140	5679	3186	3879
1956-57	2210	1154	804	493	461	546	1007	<u>10010</u>	10560	7394	4141	2662	3474
1957-58	1784	1016	719	598	590	647	1184	9054	12800	8637	5940	3228	3869
1958-59	2391	1184	858	715	618	563	1343	5228	12690	12760	6380	5001	4163
1959-60	2733	1843	1139	768	711	713	2053	4102	10270	11450	5820	3854	3797
1960-61	2161	1503	877	781	777	720	1235	6931	<u>16660</u>	8352	6700	2705	4129
1961-62	1978	1244	754	589	695	530	2056	4985	10780	9110	6575	2913	3533
1962-63	2232	1708	1173	850	875	759	1641	5337	11170	9180	6264	4183	3795
1963-64	2144	1336	1011	727	592	533	857	4289	12100	12690	6445	2867	3811
1964-65	2895	1771	1104	916	885	956	2308	5014	10460	9304	7346	2212	3783
1965-66	1894	1685	993	762	617	562	1610	5546	11010	10900	5827	3232	3738
1966-67	1749	1184	976	805	633	535	776	2756	1988	3265	5845	4953	<u>2133</u>
1967-68	5891	3001	<u>12100</u>	3522	2162	326	2641	1616	316	4305	5812	3597	3798
1968-69	1790	1243	7960	9247	875	<u>6622</u>	2036	570	102	5570	4726	6782	4001
1969-70	2174	1736	6004	8124	5556	1290	210	108	115	2505	4791	3891	3038
1970-71	4218	5095	5461	4493	5245	503	1505	2046	736	3274	7084	2350	3498
1971-72	1507	3244	5661	8019	8092	1652	1373	357	2803	7532	8014	2562	4232
1972-73	1609	932	6043	8058	<u>9183</u>	2741	666	<u>100</u>	100	4896	8118	6406	4051
1973-74	3756	1894	1122	<u>170</u>	6755	707	1719	1195	1123	6746	6452	3133	2876
1974-75	1071	784	7301	7791	6835	4101	580	318	141	282	5150	2923	3098
1975-76	2573	1613	7560	7759	8678	825	786	898	111	7157	<u>9635</u>	5967	4466
1976-77	<u>8405</u>	<u>6518</u>	1959	2595	3411	5866	107	116	<u>98</u>	<u>106</u>	3936	7467	3380
1977-78	3585	1099	8079	7035	2711	324	201	118	103	3719	5206	4934	3112
1978-79	6037	4784	6422	4943	1393	2316	99	102	104	2509	5920	<u>8403</u>	3607
1979-80	3850	100	4407	4418	4015	535	1739	102	2124	7188	4386	7107	3333
1980-81	453	143	6318	8183	5778	529	392	119	1004	8000	7630	4948	3629
1981-82	1303	3647	4448	8332	5596	2065	1784	2890	108	4059	6529	4038	3733
1982-83	1844	2722	6127	7474	7197	734	2986	1885	104	3540	6737	2804	3668
1983-84	2918	1513	8713	7863	5432	1293	318	973	100	1061	7067	3026	3368
1984-85	1430	4750	9355	4969	5944	343	85	296	1004	4460	6007	3919	3539
1985-86	<u>318</u>	<u>89</u>	5541	6376	7277	1469	2719	1830	106	3923	5812	3336	3218
1986-87	1044	573	8146	<u>9573</u>	4257	<u>85</u>	<u>84</u>	110	1781	6900	<u>3932</u>	5656	3522
1987-88	532	5228	6209	6223	6472	718	1343	107	105	4597	7872	<u>1769</u>	3429
1988-89	1456	838	7315	8087	8052	997	1382	105	105	1680	5411	4113	3275
MEAN	2167	1648	2883	2770	2357	966	1308	3896	6715	7648	5908	3664	3504
MEDIAN	1818	1244	1056	781	695	563	1343	4211	8218	7812	5878	3230	3546

DCD3H

USGS # 12322405 **DUNCAN**
 Monthly mean storage change, at site, in cfs.

River: DUNCAN

Drainage Area: 942 Sq. Mi.
 River Mile: 8.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-93	-130	-87	
1928-29	-28	-52	-25	-15	-5	14	136	300	3	-93	-130	-87	2
1929-30	-28	-52	-25	-15	-5	14	136	300	3	-93	-130	-87	2
1930-31	-28	-52	-25	-15	-5	14	136	300	3	-93	-130	-87	2
1931-32	-28	-52	-25	-15	-5	14	136	300	3	-93	-130	-87	2
1932-33	-28	-52	-25	-15	-5	14	136	300	3	-93	-130	-87	2
1933-34	-28	-52	-25	-15	-5	14	136	300	3	44	-142	-183	4
1934-35	6	-3	-44	0	-14	-10	111	271	109	-95	-150	-159	2
1935-36	-19	-45	-19	-14	-3	16	201	456	-25	-76	-105	-69	25
1936-37	-59	-32	-3	-19	0	8	83	252	162	-176	-123	-89	0
1937-38	185	-212	-33	-25	-8	28	169	340	-20	-220	-68	-45	8
1938-39	-103	-57	-10	-11	-14	35	266	230	-45	-79	-181	-97	-6
1939-40	60	-108	-21	-29	-7	55	95	250	-44	-23	-119	-79	3
1940-41	-31	-76	-15	-14	-7	66	191	59	39	-70	-118	-12	1
1941-42	-31	-62	-33	-8	-19	-3	137	165	101	-90	-166	-31	-4
1942-43	-62	-28	-5	-20	-4	12	136	191	83	-57	-150	-116	-2
1943-44	-46	-29	-19	-12	-8	3	146	246	-56	-20	-90	-67	4
1944-45	-31	-68	-39	-22	1	8	36	459	-130	-95	-68	-148	-7
1945-46	-17	-25	-13	-14	4	31	159	353	-171	5	-142	-131	4
1946-47	-57	-19	-25	-3	5	36	220	246	-143	-42	-96	-71	4
1947-48	-39	-61	-19	-27	3	-7	143	629	-361	-129	-33	-166	-4
1948-49	-49	-30	-23	-13	1	2	159	236	-184	70	-82	-86	0
1949-50	-55	-15	-39	-30	1	-3	62	191	498	-384	-87	-155	-2
1950-51	-5	-61	-3	-10	-19	-10	151	126	195	-61	-238	-10	4
1951-52	-79	-41	-27	-8	-5	-12	256	153	90	-137	-162	-32	-1
1952-53	-107	-54	-4	30	-26	4	146	265	6	-91	-104	-81	-1
1953-54	-31	-30	-26	-33	18	-14	31	379	260	-211	-127	-202	1
1954-55	-67	39	-60	-36	-15	-6	41	220	387	-184	-221	-147	-5
1955-56	64	-96	-49	3	8	15	163	474	-312	-40	-109	-26	9
1956-57	-90	-54	-3	-32	0	9	193	293	-159	-84	-121	-2	-4
1957-58	-34	-71	-17	-5	14	6	46	566	-196	-137	-120	-68	-1
1958-59	-51	-34	-12	-16	-10	10	227	72	209	-156	-120	-61	4
1959-60	-23	-83	-49	-10	-21	77	17	198	333	-246	-160	-74	-4
1960-61	-1	-83	-36	4	11	16	65	555	-285	-86	-60	-176	-5
1961-62	14	-50	-17	-34	-22	35	179	241	60	-83	-198	-53	6
1962-63	-13	-42	-37	-35	21	11	167	295	-156	-44	-88	-47	3
1963-64	-79	-22	-42	-21	-17	-3	74	311	57	2	-255	26	2
1964-65	-96	-32	-31	-4	-4	14	223	188	-101	21	-144	-138	-9
1965-66	46	-72	-28	-18	-18	33	52	684	-111	-285	-187	-52	4
1966-67	-59	-44	-14	-10	-14	8	95	1938	14065	7929	129	-938	1925
1967-68	-4408	-1607	-11058	-2598	-1279	850	-1816	4120	11515	6597	69	21	19
1968-69	6	-18	-6849	-7826	-326	-5639	437	7220	11941	1388	-195	-3319	-292
1969-70	-305	-472	-4869	-7077	-4904	-627	728	4572	11207	5090	29	-1752	151
1970-71	-2851	-4041	-4505	-3672	-4614	120	-40	5449	9791	5834	-37	-46	140
1971-72	14	-2170	-4668	-6985	-7315	-496	21	6818	11194	3511	-103	33	3
1972-73	-21	-6	-4992	-7035	-8480	-2101	704	5295	8194	2878	-3028	-3736	-991
1973-74	-2184	-778	-309	594	-6042	-33	173	3503	12361	4182	-11	158	1003
1974-75	16	-6	-6401	-6923	-6237	-3674	318	4156	8803	9606	119	-33	5
1975-76	-639	235	-5992	-6673	-7886	-221	798	6269	8215	5677	-16	-135	-13
1976-77	-6195	-5345	-1195	-2026	-2847	-5431	1867	4578	8942	5832	1705	-4719	-389
1977-78	-2368	-189	-7073	-6389	-2246	548	1952	4682	9775	6178	23	-80	396
1978-79	-3666	-3329	-5413	-4290	-783	-1748	1029	4833	8692	4897	-732	-5170	-479
1979-80	-2360	498	-3411	-3792	-3481	37	1416	9799	6994	30	-430	-4110	107
1980-81	1373	1035	-4831	-6986	-4826	309	1248	7417	6187	3364	-73	-1505	251
1981-82	344	-2296	-3439	-7292	-4778	-1441	-764	2081	13386	5645	-120	21	125
1982-83	-6	-1548	-5118	-6465	-6359	196	-1152	4343	9102	6618	-9	-148	-11
1983-84	-1652	84	-7735	-6829	-4829	-513	1391	2199	9992	8193	-181	66	11
1984-85	-13	-3675	-8336	-4391	-5524	155	1724	7150	7516	3232	-1993	-1681	-461
1985-86	1182	947	-4666	-5597	-6607	-362	-747	5073	12077	3907	-18	-1044	375
1986-87	405	567	-7125	-8574	-3709	688	2215	8217	8109	182	61	-2702	-133
1987-88	429	-4285	-5317	-5598	-5939	42	1890	6717	11132	3440	-2938	849	42
1988-89	582	498	-6217	-7076	-7484	-379	571	5163	9955	6097	-44	-1560	45
MEAN	-384	-458	-1975	-2034	-1749	-314	315	2180	3758	1718	-208	-563	31

DCD3S

USGS # 12322405

DUNCAN

River: DUNCAN

Drainage Area:

942 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

8.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										10200	5060	2160	
1928-29	1790	999	625	384	318	392	661	3880	9230	6090	4030	2090	2551
1929-30	<u>939</u>	<u>521</u>	<u>450</u>	<u>373</u>	<u>307</u>	<u>381</u>	1650	3800	7390	7080	4520	2330	<u>2491</u>
1930-31	1090	684	461	428	428	555	981	5160	8000	7280	4110	2740	2673
1931-32	1230	814	592	538	626	762	1790	6920	11800	9650	5780	2870	3623
1932-33	1450	1200	1160	769	505	512	1170	5130	14400	<u>16400</u>	8410	4260	<u>4641</u>
1933-34	3020	<u>2510</u>	1430	1100	845	958	<u>3770</u>	8380	8780	8580	5770	2980	4031
1934-35	1430	1540	900	725	780	577	1020	4690	10800	10810	5910	3550	3576
1935-36	1500	977	636	560	384	512	2100	8190	10810	8450	4500	2400	3427
1936-37	1270	608	527	395	373	392	736	4250	8380	8140	4820	3480	2795
1937-38	2210	1810	943	758	582	719	1670	6260	11200	8540	3960	3850	3554
1938-39	1750	956	658	648	483	544	1960	7690	7370	9070	5790	2940	3345
1939-40	<u>3080</u>	1700	1340	834	725	860	1860	6810	9250	8040	5250	4190	3671
1940-41	2520	1120	834	703	615	893	2630	5190	8390	7240	4930	3390	3218
1941-42	2620	1500	1210	780	626	599	1570	5180	7670	9320	5580	2560	3289
1942-43	1450	869	757	571	538	523	2440	3860	<u>6930</u>	10400	5500	2470	3045
1943-44	1650	858	658	560	483	457	1130	4570	7720	<u>5470</u>	5150	3230	2667
1944-45	2130	1360	757	593	516	468	<u>640</u>	4670	8580	7530	4500	2230	2846
1945-46	1110	825	581	527	483	577	1590	8740	11600	10310	5880	3230	3809
1946-47	1210	771	702	538	549	653	2060	7810	10700	10300	4750	3040	3609
1947-48	2900	1500	943	681	582	534	1220	7800	13300	7070	5940	2910	3789
1948-49	1410	825	559	450	417	425	1470	7490	7180	5970	4630	2560	2799
1949-50	1180	1050	878	538	483	479	831	3580	12500	11700	6600	3370	3615
1950-51	1770	1200	889	813	714	512	1590	7170	9040	12900	5730	2710	3779
1951-52	2120	977	748	582	582	523	1820	6700	10200	8670	5480	2380	3409
1952-53	1400	597	538	593	571	545	906	5290	10200	11000	6530	2970	3449
1953-54	2030	1560	1030	681	681	632	789	6240	11000	15000	8120	4310	4369
1954-55	1530	1180	1030	670	560	599	725	<u>2890</u>	12700	13100	6300	3140	3719
1955-56	1710	1390	702	516	527	555	2090	8120	12100	10100	5570	3160	3888
1956-57	2120	1100	801	461	461	555	1200	<u>10300</u>	10400	7310	4020	2660	3470
1957-58	1750	945	702	593	604	653	1230	9620	12600	8500	5820	3160	3868
1958-59	2340	1150	846	699	608	573	1570	5300	12900	12600	6260	4940	4167
1959-60	2710	1760	1090	758	690	790	2070	4300	10600	11200	5660	3780	3793
1960-61	2160	1420	841	785	788	736	1300	7486	<u>16380</u>	8266	6640	2529	4124
1961-62	1992	1194	737	555	673	565	2235	5226	10840	9027	6377	2860	3539
1962-63	2219	1666	1136	815	896	770	1808	5632	11010	9136	6176	4136	3798
1963-64	2065	1314	969	706	575	530	931	4600	12160	12690	6190	2893	3814
1964-65	2799	1739	1073	912	881	970	2531	5202	10360	9325	7202	<u>2074</u>	3775
1965-66	1940	1613	965	744	599	595	1662	6230	10900	10620	5640	3180	3742
1966-67	1690	1140	962	795	619	543	871	4694	16050	11190	5974	4015	4058
1967-68	1483	1394	1042	924	883	<u>1176</u>	825	5736	11830	10900	5881	3618	3817
1968-69	1796	1225	1111	<u>1421</u>	549	983	2473	7790	12040	6958	4531	3463	3709
1969-70	1869	1264	1135	1047	653	664	939	4680	11320	7595	4820	2140	3190
1970-71	1367	1054	956	822	632	622	1465	7494	10530	9108	7047	2304	3639
1971-72	1521	1074	993	1034	777	1156	1394	7175	14000	11040	7911	2594	4235
1972-73	1588	926	1051	1023	703	640	1370	5395	8294	7774	5090	2670	3060
1973-74	1572	1116	812	764	714	674	1892	4698	13480	10930	6440	3291	3880
1974-75	1087	778	899	867	598	427	898	4474	8944	9888	5270	2891	3102
1975-76	1934	1848	<u>1568</u>	1086	792	604	1583	7167	8326	12830	<u>9619</u>	<u>5832</u>	4453
1976-77	2210	1173	764	569	564	434	1974	4693	9040	5939	5641	2748	2991
1977-78	1217	910	1006	645	465	871	2153	4800	9877	9897	5229	4854	3508
1978-79	2371	1455	1009	653	610	568	1128	4935	8795	7406	5189	3233	3127
1979-80	1490	598	996	626	534	572	3154	9901	9117	7218	<u>3956</u>	2997	3440
1980-81	1826	1178	1487	1197	<u>953</u>	839	1640	7537	7191	11360	7557	3443	3880
1981-82	1647	1350	1009	1040	818	624	1020	4971	13490	9704	6409	4058	3858
1982-83	1839	1175	1009	1009	838	931	1834	6227	9207	10160	6729	2657	3656
1983-84	1266	1597	978	1034	603	780	1709	3172	10090	9254	6885	3093	3379
1984-85	1416	1075	1019	579	420	498	1809	7446	8519	7693	4014	2238	3078
1985-86	1500	1036	874	779	670	1107	1971	6903	12180	7830	5794	2291	3593
1986-87	1450	1140	1021	999	548	773	2299	8327	9891	7082	3994	2955	3389
1987-88	960	943	893	625	533	759	3232	6824	11240	8037	4934	2617	3471
1988-89	2038	1337	1098	1011	568	617	1953	5268	10060	7777	5368	2553	3319
MEAN	1782	1190	908	736	608	651	1623	6077	10470	9365	5699	3101	3534
MEDIAN	1710	1150	943	703	598	599	1590	5632	10400	9122	5651	2962	3593

DCD3A

USGS # 12322745

KOOTENAY LAKE

River: KOOTENAY

Drainage Area: 17700 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 18.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-9617	-9306	-3900	
1928-29	-144	-1823	-1378	-1409	-257	1534	3059	18422	537	-11370	-4953	-3283	-84
1929-30	-1776	-1697	288	-1391	1559	606	13878	4147	3937	-8480	-6080	-3718	60
1930-31	-2228	-1220	-1319	143	59	927	2662	14964	587	-8011	-4842	-2376	-55
1931-32	-684	1340	-505	-3134	725	2564	8162	16198	4852	-17908	-6109	-4693	38
1932-33	-1170	985	-954	-1342	-1048	821	9365	15777	13807	-18280	-11181	-4394	157
1933-34	2225	-2092	3242	-3242	-2209	2251	24985	6228	-15615	-9400	-5822	-3555	-247
1934-35	-484	2344	-2143	664	-755	54	5335	18997	1764	-9251	-11231	-4022	99
1935-36	-1601	-739	-501	-465	-1525	482	16282	11525	-8905	-8539	-4358	-2336	-61
1936-37	-1363	-1146	447	-821	434	-1105	3585	18184	2082	-11257	-5585	-889	204
1937-38	2150	-629	-3047	-1585	-1842	1431	12585	19872	-1634	-18736	-8010	-1110	-57
1938-39	382	-601	-2414	-1682	-3135	782	9416	13017	-4217	-6591	438	-413	438
1939-40	2389	-2115	-1830	-2736	-2923	-2221	2723	17137	-6983	-3969	285	20	15
1940-41	-228	-1149	-1492	-2017	-3160	-1985	4006	8993	-1352	2257	-310	-60	319
1941-42	-19	140	-97	-2561	-5587	-6683	6944	18152	-4460	-8059	-1378	3017	-20
1942-43	-2022	-2147	-2852	-4102	-3068	-1817	16882	5309	2684	-7480	-3871	2102	-61
1943-44	637	-2306	-3979	-4729	-3534	-2384	92	13261	-629	-2634	-148	3268	-243
1944-45	114	-590	-2540	-2687	-3442	-3850	-129	19166	2040	-9620	-1991	3403	5
1945-46	76	-20	-891	-1498	-3191	-4884	8489	21525	-5747	-12726	-4205	2887	-5
1946-47	57	79	-171	-2312	-3169	-4171	8679	15281	-5453	-10191	-1679	3082	11
1947-48	-114	20	76	-2557	-3599	-4963	7826	28065	-7977	-16689	-3159	2792	-11
1948-49	-133	-1885	-4213	-4139	-2071	-942	11073	17288	-12372	-4006	3871	1178	333
1949-50	-793	1039	-1140	-3159	-4330	-6941	3675	17256	14847	-19990	-716	480	0
1950-51	135	-20	-329	-3531	-5678	-5852	6536	22599	-3465	-9044	-1881	200	10
1951-52	-155	0	-1005	-4249	-3495	-6054	15024	10460	-5372	-8852	3629	-60	-18
1952-53	-2311	-2942	-2283	479	-1362	-6934	3820	15222	5041	-10117	1447	-180	-15
1953-54	-290	-816	-2830	-3136	-1540	-6444	4564	29523	-3148	-11361	-10010	1909	-298
1954-55	-495	256	-228	-2341	-4380	-4061	-259	15254	20561	-18267	-9077	3288	-8
1955-56	-285	98	-95	-2675	-3356	-3463	12850	26872	-15583	-12195	-5539	3134	-3
1956-57	-152	59	-569	-1964	-4740	-3846	3360	24937	-13269	-6774	-1624	3638	-24
1957-58	-114	177	76	-2678	-3318	-5089	2934	29779	-15954	-8389	-1203	3361	18
1958-59	-38	-236	-57	-2284	-3241	-5234	7330	15920	9697	-15874	-7580	1650	-19
1959-60	38	20	-95	-2470	-3146	-1082	2150	8517	8358	-9632	-5379	3130	15
1960-61	-57	-79	-114	-1895	-3853	-4946	1954	34963	-9074	-17979	-2444	2291	-59
1961-62	719	177	-853	-1943	-3240	-5162	10268	11171	2406	-11217	-4517	2777	34
1962-63	495	98	-228	-3049	-2671	-4771	2881	19890	-2666	-8416	-6293	4632	0
1963-64	323	-1053	75	-4081	-2719	-3072	2786	16903	8049	-14088	-5633	3231	40
1964-65	-304	118	-133	-2009	-3089	-5850	10186	10275	3814	-11708	-4233	3074	-10
1965-66	133	79	-190	-2256	-3692	-4555	5213	17646	-1154	-9347	692	1097	327
1966-67	-1350	-1999	1281	-3172	-9355	-927	1124	23621	9369	-21322	-4934	3029	-348
1967-68	400	-315	-2381	241	-3079	-5186	1476	18185	976	-7848	-5087	2926	29
1968-69	-483	37	-1123	-1943	-2834	-4510	12327	15073	-4547	-11443	-4178	3242	-39
1969-70	-36	-262	-1612	-1022	-2758	-5029	-195	17288	-1605	-7814	-731	2320	-102
1970-71	561	168	-398	-1159	-4040	-4594	7096	19277	-3423	-9552	-6021	2439	46
1971-72	-924	1329	-1720	-788	-2590	-2745	-1709	21294	-577	-6772	-7249	1094	-101
1972-73	1340	206	-561	-1697	-2959	-5135	-212	7978	2203	-2613	1001	2058	149
1973-74	-380	-505	-199	-1390	-2804	-4933	9544	5066	10787	-12196	-5150	2071	-45
1974-75	290	-430	290	-2970	-2089	-5390	584	9555	1240	-3722	339	2518	25
1975-76	-362	-112	91	-1789	-3233	-5112	2629	10672	-3176	2522	-900	-4578	-252
1976-77	1813	-1247	-820	-991	-1475	-4899	2005	3730	1383	767	-517	2226	168
1977-78	652	-187	-1805	-2566	-2331	-2447	284	7707	4124	-4263	-1269	2771	57
1978-79	308	-150	-960	-2170	-6340	-1423	-529	7929	74	-89	18	2059	-60
1979-80	1250	-150	-978	-1817	-4407	-4740	10624	3313	-1098	-3758	-499	2841	40
1980-81	-91	299	-235	-1821	-3247	-4817	1615	12885	-173	2160	-9280	2378	-12
1981-82	489	0	145	-2899	-3270	-4329	1828	13859	367	-6074	-2949	2804	11
1982-83	-91	225	-1050	-880	-2937	-5406	4345	11874	-5992	653	-4014	-511	-292
1983-84	2624	973	-688	-1635	-3480	-4686	1256	5254	9042	-5843	-1792	479	116
1984-85	2361	150	-362	-2411	-3906	-4150	920	13726	-5426	-1847	71	1798	117
1985-86	815	-917	579	-2211	-2382	-4342	2171	9944	-1555	-1781	-2301	1798	0
1986-87	978	-749	-362	-1756	-3477	-4682	3852	6158	-1543	-285	-499	2971	68
1987-88	-235	-337	652	-2431	-3607	-4256	4775	6731	-2624	-2002	178	1734	-110
1988-89	887	150	326	-1967	-3960	-4345	4096	5002	-131	-1523	410	1992	95
MEAN	61	-362	-790	-2100	-2953	-3361	5591	14830	-529	-8362	-3312	1082	6

KOO3S

USGS # 12322745

KOOTENAY LAKE

River: KOOTENAY

Drainage Area:

17700 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cubic feet per second

River Mile:

16.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-9710	-9436	-3987	
1928-29	-172	-1875	-1403	-1424	-262	1548	3195	18722	540	-11463	-5083	-3370	-83
1929-30	-1804	-1749	243	-1406	1554	620	14014	4447	3940	-8573	-6210	-3805	61
1930-31	-2256	-1272	-1344	128	54	941	2798	15264	590	-8104	-4972	-2463	-54
1931-32	-712	1288	-530	-3149	720	2578	8298	16498	4855	-18001	-6239	-4780	40
1932-33	-1198	933	-979	-1357	-1053	835	9501	16077	13810	-18373	-11311	-4481	159
1933-34	2197	-2144	3217	-3257	-2214	2265	25121	6528	-15612	-9356	-5964	-3738	-243
1934-35	-478	2341	-2187	664	-769	44	5446	19268	1873	-9346	-11381	-4181	101
1935-36	-1620	-784	-520	-479	-1528	498	16483	11981	-8930	-8615	-4463	-2405	-36
1936-37	-1422	-1178	444	-840	434	-1097	3668	18436	2244	-11433	-5708	-978	204
1937-38	2335	-841	-3080	-1610	-1850	1459	12754	20212	-1654	-18956	-8078	-1155	-49
1938-39	279	-658	-2424	-1693	-3149	817	9682	13247	-4262	-6670	257	-510	432
1939-40	2449	-2223	-1851	-2765	-2930	-2166	2818	17387	-7027	-3992	166	-59	17
1940-41	-259	-1225	-1507	-2031	-3167	-1919	4197	9052	-1313	2187	-428	-72	320
1941-42	-50	78	-130	-2569	-5606	-6686	7081	18317	-4359	-8149	-1544	2986	-23
1942-43	-2084	-2175	-2857	-4122	-3072	-1805	17018	5500	2767	-7537	-4021	1986	-63
1943-44	591	-2335	-3998	-4741	-3542	-2381	238	13507	-685	-2654	-238	3201	-239
1944-45	83	-658	-2579	-2709	-3441	-3842	-93	19625	1910	-9715	-2059	3255	-3
1945-46	59	-45	-904	-1512	-3187	-4853	8848	21878	-5918	-12721	-4347	2756	-1
1946-47	0	60	-196	-2315	-3164	-4135	8899	15527	-5596	-10233	-1775	3011	16
1947-48	-153	-41	57	-2584	-3596	-4970	7989	28694	-8338	-16818	-3192	2626	-16
1948-49	-182	-1915	-4236	-4152	-2070	-940	11232	17524	-12556	-3936	3789	1092	333
1949-50	-848	1024	-1179	-3189	-4329	-6944	3737	17447	15345	-20374	-803	325	-2
1950-51	130	-81	-332	-3541	-5697	-5862	6687	22725	-3270	-9105	-2119	190	14
1951-52	-234	-41	-1032	-4257	-3500	-6066	15280	10613	-5282	-8989	3467	-92	-19
1952-53	-2418	-2996	-2287	509	-1388	-6930	3966	15487	5047	-10208	1343	-261	-16
1953-54	-321	-846	-2856	-3169	-1522	-8458	4595	29902	-2888	-11572	-10137	1707	-297
1954-55	-562	295	-288	-2377	-4395	-4067	-218	15474	20948	-18451	-9298	3141	-13
1955-56	-221	2	-144	-2672	-3348	-3448	13013	27346	-15895	-12235	-5648	3108	6
1956-57	-242	5	-572	-1996	-4740	-3837	3553	25230	-13428	-6858	-1745	3636	-28
1957-58	-148	106	59	-2683	-3304	-5083	2980	30345	-16150	-8526	-1323	3293	17
1958-59	-89	-270	-69	-2300	-3251	-5224	7557	15992	9906	-16030	-7700	1589	-15
1959-60	15	-63	-144	-2480	-3167	-1005	2167	8715	8691	-9878	-5539	3056	11
1960-61	-58	-162	-150	-1891	-3842	-4930	2019	35518	-9359	-18065	-2504	2115	-65
1961-62	733	127	-870	-1977	-3262	-5127	10447	11412	2466	-11300	-4715	2724	40
1962-63	482	56	-265	-3084	-2650	-4760	3048	20185	-2822	-8460	-6381	4585	3
1963-64	244	-1075	33	-4102	-2736	-3075	2860	17214	8106	-14086	-5888	3257	43
1964-65	-400	86	-164	-2013	-3093	-5836	10409	10463	3713	-11687	-4377	2936	-18
1965-66	179	7	-218	-2274	-3710	-4522	5265	18330	-1265	-9632	505	1045	332
1966-67	-1409	-2043	1267	-3182	-9369	-919	1219	25559	23434	-13394	-4805	2091	1576
1967-68	-4009	-1922	-13440	-2357	-4357	-4336	-341	22305	12491	-1251	-5018	2946	48
1968-69	-477	20	-7972	-9769	-3159	-10149	12764	22293	7393	-10054	-4373	-77	-332
1969-70	-341	-734	-6480	-8099	-7662	-5655	534	21861	9603	-2723	-702	568	50
1970-71	-2290	-3873	-4903	-4831	-8654	-4475	7056	24726	6368	-3718	-6058	2393	186
1971-72	-909	-841	-6388	-7773	-9406	-941	-613	43552	41356	5863	-6246	-12234	3823
1972-73	-22452	-18340	-5418	-8767	-11514	-7191	2465	32917	38047	10874	-5141	-14781	-716
1973-74	-7746	-3716	814	-4177	-22360	-11463	10044	21015	73340	6391	-4950	-2361	4629
1974-75	-17822	-14043	-15870	-22190	-25815	-16288	750	27236	46174	26372	8139	2333	29
1975-76	-6820	-10435	-17875	-28985	-23859	-14652	6810	50415	30954	20590	-1241	-5862	-10
1976-77	-14349	-16992	-12981	-12399	-11015	-17148	1134	18904	26585	4941	1171	-2297	-2858
1977-78	-7327	-12576	-13067	-16354	-10993	-2026	7400	33749	44856	12790	-1562	500	2986
1978-79	-9913	-18103	-22702	-19724	-9232	-3646	1634	31499	30332	13292	-385	-6260	-1067
1979-80	-10725	-16423	-15795	-14487	-12012	-5579	20550	48166	20378	-1929	-1027	-2873	705
1980-81	-7599	-9825	-16431	-22583	-20723	-6800	8034	51386	27862	9070	-9466	-1438	229
1981-82	-6478	-11491	-18730	-25563	-17266	-10165	-869	29702	52717	11990	-3121	2131	268
1982-83	-6775	-16239	-18413	-22193	-21244	-7039	7342	36119	29934	18860	-4121	-4831	-600
1983-84	-7095	-4300	-25460	-21966	-12169	-6054	5079	16821	51379	11942	-5485	-2548	-57
1984-85	-5564	-14992	-26063	-23049	-13526	-5367	6761	45280	25874	7119	-2321	-3303	-705
1985-86	-10023	-13270	-13593	-21350	-9534	-2591	7217	38317	38083	3315	-2681	-8995	431
1986-87	-16296	-14748	-9727	-18314	-13283	-3304	13870	44310	23097	2986	-2694	-8049	-112
1987-88	-16782	-13777	-11013	-24858	-21470	-5876	12671	32957	32590	10103	-899	-9834	-1313
1988-89	-7833	-10794	-19948	-14582	-17592	-5020	10882	32194	39387	14343	-6823	-237	1224
MEAN	-3265	-4093	-5532	-7295	-6819	-4312	6864	23140	11350	-4191	-3628	-834	152

K003SS

USGS # 12322730

CORRA LINN

River: KOOTENAY

Drainage Area: 17700 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 16.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										63980	30590	16450	
1928-29	13200	10540	7571	5974	4865	<u>5501</u>	<u>7633</u>	30650	75440	42120	22560	13930	20050
1929-30	9043	6427	5441	4928	4808	5821	16590	42090	63130	48650	26400	15700	20830
1930-31	10170	7553	6102	4927	5227	5731	8626	37970	52450	36500	20430	14570	17590
1931-32	7889	<u>5635</u>	6409	8284	5726	11200	19900	64600	97880	62790	27700	16400	27910
1932-33	10670	11050	12190	9710	6885	7153	12410	50950	114600	93130	39430	20320	32510
1933-34	16360	22370	19380	21870	15710	14450	<u>42090</u>	<u>96280</u>	90340	44520	24150	14950	35290
1934-35	8962	13190	11050	8886	11710	9453	12100	44950	91360	68270	35160	17350	27770
1935-36	10070	7430	6250	6057	5206	6256	16450	68300	70640	36300	19570	11870	21910
1936-37	<u>7858</u>	5987	<u>5151</u>	<u>4240</u>	<u>4506</u>	5673	8234	33660	66770	46860	22460	11850	18670
1937-38	8673	16290	12260	10890	8476	8795	21440	60490	98030	62210	23870	14000	28860
1938-39	9617	8270	8741	8963	7998	7326	18560	58140	59350	47810	17420	11730	22080
1939-40	12350	13540	12640	9378	9867	12880	21580	49720	62750	30490	15340	14070	22050
1940-41	12640	9311	8717	8097	8887	11820	20360	39170	47730	23040	15970	20870	18890
1941-42	20810	15240	21590	11610	13070	13920	18450	48500	84650	68060	25710	10550	29450
1942-43	12160	10980	10520	9764	9543	9647	37090	51000	77680	74540	27120	9595	28400
1943-44	9393	9706	9983	9999	8227	7839	10120	26450	48240	23710	15830	8619	<u>15680</u>
1944-45	9922	8251	7707	8397	9065	9638	8875	36600	74490	47770	17500	8496	20600
1945-46	8877	9526	8198	8413	9437	14500	23360	76130	103900	63980	25750	13270	30540
1946-47	10670	8394	9690	9724	13120	17620	25710	82090	87770	54310	20680	11680	29380
1947-48	29220	18250	10790	10930	11300	12960	18810	63240	140200	60430	29350	11350	34730
1948-49	11230	10380	10190	9221	8280	9243	19150	72780	67220	29610	<u>12850</u>	10100	22590
1949-50	9827	10330	11690	10080	12150	18860	19530	46950	106500	93210	26320	13160	31640
1950-51	17880	17080	18120	16660	25040	16980	25090	81020	87830	81600	27890	18220	36200
1951-52	22370	13450	12150	12760	11950	14570	24980	72590	79790	52650	16960	12000	28900
1952-53	10420	8556	7889	9067	11810	14840	12620	50220	94690	69110	22730	13330	27180
1953-54	11470	11660	11290	10410	10040	15840	15990	67750	115400	<u>110600</u>	<u>45520</u>	20320	<u>37370</u>
1954-55	14050	14320	11230	9886	10850	9995	13400	31910	100400	90490	34500	10960	29430
1955-56	17190	17280	12610	13430	10680	14420	30550	81730	135200	69560	28440	10060	36770
1956-57	13030	8605	8994	7516	11210	12740	15170	86070	86640	37340	18690	<u>7435</u>	26210
1957-58	10420	7617	6837	8861	11050	14010	16470	65530	82020	38830	17910	9010	24100
1958-59	11920	10350	9036	12280	10180	13290	20650	58830	113800	82230	33820	<u>31620</u>	34080
1959-60	25760	19290	14580	10980	11860	14950	35980	49710	87050	64300	27050	<u>12170</u>	31160
1960-61	11430	11010	6917	9642	15860	16600	20070	60830	<u>149700</u>	56340	23320	10600	32660
1961-62	12770	8728	8154	8154	11480	11970	22830	47170	84120	53710	27730	10180	25630
1962-63	12380	13320	12430	11120	15370	15450	18200	44120	91480	58860	28410	10750	27700
1963-64	10370	11780	8407	11560	8762	9213	13680	45970	109700	73100	31130	13180	28920
1964-65	17770	12450	9059	10200	11820	15160	20240	57110	96010	59060	30730	11860	29370
1965-66	13290	12740	9159	10310	10340	14090	24720	60010	99710	62060	20600	11760	29130
1966-67	10790	10960	8150	11850	18440	9754	13300	42240	126000	78670	27770	11660	30800
1967-68	15060	12360	20870	9859	14080	18790	13300	42590	87460	56370	29700	16110	28080
1968-69	15260	14110	18600	17950	10190	19140	32050	79570	100800	61240	22660	13970	33920
1969-70	12800	11070	13760	14580	14170	12580	11210	36040	72800	34170	16750	10410	21710
1970-71	11210	10820	11750	12940	22410	13560	18960	75780	101900	62590	32940	10840	32190
1971-72	10960	9609	12990	14210	17630	<u>24980</u>	21670	47130	94490	62760	39800	26420	31900
1972-73	<u>35720</u>	28250	13890	16350	18970	15460	12500	24190	30340	24950	21620	26310	22390
1973-74	18050	17330	10800	23850	33850	24150	24850	54190	83760	68190	35410	16290	34210
1974-75	26160	23590	23520	28460	32930	23730	12570	33600	52970	28900	15990	13600	26290
1975-76	19750	25630	<u>38550</u>	<u>39250</u>	33350	22900	21270	42790	43560	46780	44680	29380	34040
1976-77	24590	24200	20160	18130	17330	22480	15450	<u>20800</u>	<u>23050</u>	18190	17530	16350	19880
1977-78	16680	21270	22900	23260	17040	14170	18930	32280	42580	39580	22710	20270	24350
1978-79	22410	27360	28790	25020	16950	12680	12490	28070	27610	<u>17160</u>	15760	16810	20960
1979-80	17550	20970	24750	19590	18310	13920	17050	46980	41130	30880	18390	16180	23840
1980-81	18880	21280	34130	37110	<u>34110</u>	20140	15740	35400	53540	59720	40910	16450	32330
1981-82	19000	22880	28430	34160	32600	24470	19070	42190	61460	42010	30030	17000	31110
1982-83	21230	26800	28760	33880	32900	24830	19670	35850	48590	36950	30200	18360	29830
1983-84	16780	21790	33920	33480	21130	16190	16110	22060	40540	37350	28160	15920	25330
1984-85	14140	24030	33180	29080	18920	11460	16910	30290	40930	21420	17100	18120	22980
1985-86	24490	28220	21970	29390	20090	23860	23330	28440	47020	35830	23390	21370	27310
1986-87	29010	<u>29010</u>	19140	25550	19900	19090	18020	37030	29190	25730	18300	18260	24060
1987-88	22730	20400	17560	30280	26850	14110	20470	27970	35010	21690	16300	20460	22780
1988-89	21170	22970	27910	23130	23040	13610	21160	35550	39100	20990	28690	16530	24500
MEAN	15350	14950	14810	15160	14870	14200	18910	49840	77350	51840	25360	15020	27330
MEDIAN	13030	12740	11750	10980	11860	14010	18810	46980	82020	53180	24930	13990	27910

COR3H

USGS # 12322730

CORRA LINN

River: KOOTENAY

Drainage Area: 17700 Sq. Mi

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 16.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										54270	21150	12460	
1928-29	13030	8664	6169	4550	4603	7049	10830	49370	75990	30660	17480	10560	19970
1929-30	7239	4678	5684	3522	6362	6441	30600	46540	67070	40080	20190	11890	20890
1930-31	7916	6281	<u>4757</u>	5055	5281	6672	11420	53230	53040	28400	15460	12110	17530
1931-32	7177	6923	5879	5135	6446	13770	28200	81100	102700	44790	21460	11620	27950
1932-33	9467	11980	11210	8353	5832	7988	21910	67030	128400	74760	28120	15840	32670
1933-34	18560	<u>20230</u>	<u>22600</u>	18610	13500	16710	<u>67220</u>	102800	74720	35170	18180	11210	35040
1934-35	8484	15530	8863	9550	10940	9497	17540	64220	93230	58930	23780	13160	27870
1935-36	8448	6646	5730	5578	<u>3678</u>	6754	32940	78280	61710	27690	15110	<u>9465</u>	21870
1936-37	6436	4809	5596	<u>3400</u>	4940	<u>4576</u>	11900	52090	69010	35430	16760	10880	18870
1937-38	11010	15450	9183	9277	6626	10250	34190	80700	96380	43260	15800	12850	28810
1938-39	9896	7612	6317	7271	4849	8144	28250	71390	55090	41140	17670	11220	22510
1939-40	14800	11310	10790	6613	6938	10720	24400	67110	55730	26500	15510	14010	22070
1940-41	12380	8086	7210	6066	5520	9899	24560	48230	<u>46420</u>	25230	15540	20800	19210
1941-42	20760	15310	21460	9042	7468	7236	25530	66810	80290	59910	24160	13530	29430
1942-43	10080	8806	7662	5642	6471	7842	54110	56500	80450	67000	23100	11580	28330
1943-44	9984	7370	5985	5258	4685	5458	10360	39960	47560	<u>21060</u>	15600	11820	<u>15440</u>
1944-45	10010	7593	5128	5688	5624	5796	<u>8781</u>	56220	76400	38050	15440	11750	20600
1945-46	8936	9481	7293	6901	6250	9650	32010	98010	97980	51260	21400	16030	30540
1946-47	10670	8454	9494	7409	9955	13490	34610	97620	82170	44070	18910	14690	29390
1947-48	<u>29070</u>	18210	10840	8343	7701	7988	26780	91930	131900	43620	26150	13980	34720
1948-49	11050	8460	5953	5069	6210	8304	30380	90310	54660	25680	16640	11190	22920
1949-50	8979	11350	10520	6891	7817	11920	23260	64400	121800	72830	25510	13490	31640
1950-51	18010	17000	17790	13120	<u>19340</u>	11120	31780	103700	84560	72500	25770	18410	36210
1951-52	22130	13410	11120	8504	8452	8501	40260	83200	74510	43660	20430	11910	28890
1952-53	7998	5560	5602	9575	10420	7906	16580	65710	99740	58910	24070	13070	27160
1953-54	11150	10810	8436	7242	8521	9378	20590	97650	112500	<u>99020</u>	35390	22030	37070
1954-55	13490	14620	10940	7509	6451	5928	13180	47390	121400	72040	25200	14100	29410
1955-56	16960	17280	12470	10760	7335	10970	43560	109100	119300	57320	22790	13170	36780
1956-57	12790	8610	8422	5520	6466	8908	18720	<u>111300</u>	73210	30480	16950	11070	26180
1957-58	10280	7723	6897	6177	7749	8930	19450	95880	65880	30310	16590	12300	24120
1958-59	11830	10080	8967	9978	6926	8064	28210	74820	123700	66200	26120	<u>33210</u>	34070
1959-60	25780	19230	14410	8502	8696	13940	38140	58420	95740	54420	21510	15220	31170
1960-61	11380	10850	6767	7751	12020	11670	22090	96350	140300	38280	20810	12710	32600
1961-62	13500	8854	7284	6178	8218	6843	33270	58590	86590	42410	23020	12900	25670
1962-63	12860	13380	12170	8034	12720	10690	21250	64300	88660	50400	22030	15330	27700
1963-64	10610	10700	8440	7462	6025	6137	16540	63180	117800	59020	25240	16430	28970
1964-65	17370	12530	8895	8189	8727	9327	30650	67570	99720	47370	26350	14800	29350
1965-66	13460	12750	8941	8035	6634	9566	29990	78340	98440	52430	21100	12810	29460
1966-67	9385	8921	9417	8665	9068	8835	14520	67800	149400	65280	22960	13750	32370
1967-68	11050	10440	7428	7502	9727	14450	12960	64890	99950	55120	24680	19060	28120
1968-69	14780	14130	10620	8183	7029	8986	44810	101900	108200	51190	18280	13890	33590
1969-70	12460	10340	7278	6480	6510	6926	11740	57900	82400	31450	16050	10980	21760
1970-71	8923	6948	6844	8113	13760	9090	26020	100500	108300	58870	26880	13230	32370
1971-72	10050	8768	6599	6435	8221	<u>24040</u>	21050	90680	135800	68620	33560	14190	35720
1972-73	13270	9906	8473	7583	7456	8271	14960	57110	68390	35830	16470	11530	21670
1973-74	10300	13610	11610	<u>19670</u>	11490	12680	34900	75210	<u>157100</u>	74580	30460	13930	<u>38840</u>
1974-75	8343	9547	7654	6267	7113	7441	13320	60840	99150	55270	24120	15930	26320
1975-76	12930	15190	20680	10260	9487	8245	28090	93200	74510	67370	<u>43440</u>	23520	34030
1976-77	10240	7205	7175	5731	6320	5336	16580	39710	49640	23130	18700	14050	17020
1977-78	9353	8696	9831	6909	6049	12140	26330	66030	87430	52370	21150	20770	27330
1978-79	12500	9254	6084	5300	7723	9034	14120	59570	57940	30450	15380	10550	19890
1979-80	6822	<u>4552</u>	8958	5104	6297	8340	37600	95150	61510	28950	17360	13310	24540
1980-81	11280	11450	17700	14530	13390	13340	23780	86790	81400	68790	31450	15010	32560
1981-82	12520	11390	9699	8596	15330	14310	18200	71900	114200	54000	26910	19130	31380
1982-83	14450	10560	10350	11690	11660	17790	27020	71970	78530	55810	26080	13530	29230
1983-84	9686	17490	8460	11510	8961	10140	21190	<u>38880</u>	91920	49290	22680	13380	25270
1984-85	8573	9042	7117	6027	5394	6095	23680	75570	66810	28540	<u>14780</u>	14820	22270
1985-86	14470	14950	8376	8043	10550	21270	30540	66760	85100	39150	20700	12370	27740
1986-87	12710	14270	9412	7234	6617	15790	31890	81340	52290	28720	15610	10210	23950
1987-88	<u>5944</u>	6620	6551	5425	5380	8239	33140	60930	67600	31790	15400	10620	21470
1988-89	13340	12180	7962	8551	5446	8590	32040	67740	78490	35330	21870	16300	25720
MEAN	12090	10850	9281	7862	8055	9892	25780	72980	88700	47650	21730	14190	27480
MEDIAN	11050	10340	8440	7462	7113	8930	25530	67740	84560	46080	21280	13340	27950

COR3A

USGS # 12322970 **BRILLIANT**
Monthly mean historical streamflow in cfs.

River: KOOTENAY

Drainage Area: 19300 Sq. Mi.
River Mile: 1.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										69730	31290	16380	
1928-29	13650	11100	8031	6431	5485	<u>6104</u>	<u>8380</u>	35700	83880	46110	24000	14540	22000
1929-30	9373	6711	5909	5325	5317	6227	19000	47860	70440	53340	27980	16070	22880
1930-31	10440	7919	6366	5413	5734	6351	9923	46070	62440	41920	22250	15700	20120
1931-32	<u>8274</u>	6377	6829	8720	6351	11810	23410	73810	108400	68290	30560	18090	30950
1932-33	11620	12100	13630	10150	7400	7618	14580	57940	128000	101900	43670	23440	36140
1933-34	19280	25520	21340	23930	17410	14470	<u>49570</u>	<u>107300</u>	98760	48830	26490	16160	39170
1934-35	10040	15150	12240	9878	11950	10290	14110	52380	104100	76400	38380	18970	31240
1935-36	11280	8071	6780	6488	5654	6718	20130	76480	79820	40720	21690	13030	24780
1936-37	8612	<u>6262</u>	<u>5290</u>	<u>4210</u>	<u>4516</u>	6136	8777	39030	77090	52850	25070	13570	21030
1937-38	9504	17630	12840	11340	9119	9565	23720	69900	116600	67790	25490	14900	32440
1938-39	10570	9049	9395	9617	8515	7936	21500	68500	68600	55340	19410	12670	25200
1939-40	13300	15370	14280	10120	10500	13610	24300	57220	71440	34000	16780	14790	24640
1940-41	13990	10380	9215	8571	9141	12880	23570	46360	54930	26130	17000	23670	21350
1941-42	23590	16970	23360	12520	13670	14590	20470	54440	93610	73600	27910	11600	32310
1942-43	12920	11660	11160	10410	10150	10180	40800	57000	87580	82420	30010	10690	31350
1943-44	10410	10590	10640	10550	8748	8309	11380	32070	54720	26240	17410	9999	<u>17590</u>
1944-45	11500	9596	8638	9158	9752	10310	9940	43060	85130	52690	19150	9567	23260
1945-46	9769	10470	8969	9083	10060	15270	25920	87130	116300	70670	28080	14870	33990
1946-47	11790	9285	10570	10410	13880	18670	28510	91240	97180	59280	22780	12950	32310
1947-48	31430	20100	11850	11740	11960	13570	20500	71530	155200	64470	31960	13040	38110
1948-49	12710	11440	10990	9803	8785	9894	21740	82280	74260	32770	<u>14720</u>	11230	25130
1949-50	10790	11400	12850	10960	12930	19580	20970	51650	118600	100600	28870	14430	34570
1950-51	19420	18770	19700	18030	26390	17970	27640	89870	97400	89320	30520	19860	39670
1951-52	24640	14830	13330	13700	12670	15250	27950	81590	89440	58100	19070	13090	32030
1952-53	11140	9122	8417	9681	12530	15570	13960	56630	105800	76720	25560	14980	30090
1953-54	13040	13200	12420	11340	10800	16710	17350	76440	127000	<u>121800</u>	49400	23060	<u>41260</u>
1954-55	15760	16090	12750	10890	11610	10640	14710	35740	114200	100900	37870	12390	32900
1955-56	18800	19110	13770	14390	11430	15170	33930	92420	148600	76060	30780	11360	40510
1956-57	14550	9758	9906	8242	11840	13420	16790	98360	95800	40700	20530	<u>8536</u>	29140
1957-58	11720	8728	7668	9584	11940	15150	18390	76100	91310	41920	19230	10120	26890
1958-59	13570	11590	9952	13240	10900	13980	22660	65930	127400	90520	36850	<u>35640</u>	37780
1959-60	29100	21760	16100	12000	12730	16100	39250	55370	98330	71950	29450	13870	34690
1960-61	12890	12400	7863	10490	16870	17790	22320	69720	<u>165800</u>	60880	25160	11780	36140
1961-62	13990	9764	8939	8831	12210	12640	25750	53400	95820	60360	30770	11780	28750
1962-63	14210	15130	13890	12270	16540	16610	20560	51140	102800	64670	30830	12200	30950
1963-64	11470	12990	9472	12410	9464	9862	15100	51550	124300	82230	35120	15750	32500
1964-65	20290	14170	10150	11090	12650	16090	22940	63620	107000	64220	33190	13520	32490
1965-66	14810	14240	10270	11260	11120	14990	27370	67610	111300	68800	22930	12960	32380
1966-67	11800	12010	9263	12820	19370	10670	14780	48430	143500	87690	30400	12900	34470
1967-68	16380	13790	21910	10800	15120	20410	14870	49560	101100	64570	33220	18760	31740
1968-69	17300	15720	19790	18680	10890	19930	35460	89840	112900	66600	24530	15310	37380
1969-70	14580	12880	14970	15470	14950	13380	12390	41350	83080	37910	18380	11520	24250
1970-71	12310	11730	12570	13800	24000	14600	21270	86560	115200	71130	36380	12390	36050
1971-72	12330	10710	13890	15010	18300	26380	23860	56200	110900	72260	43510	28170	35980
1972-73	<u>37320</u>	29400	14770	17160	19630	16310	13910	30400	38880	29760	23320	27330	24860
1973-74	19450	18930	12080	24960	34850	25130	27490	60980	100700	78250	39130	17810	38310
1974-75	26990	24320	24210	29100	33560	24390	13740	38970	64440	36040	18680	15780	29150
1975-76	21260	27370	<u>40150</u>	<u>40350</u>	34170	23680	23570	52080	53830	56820	<u>50410</u>	32790	38100
1976-77	26190	25210	20940	18760	17960	23150	17300	26550	<u>30810</u>	21400	19280	17910	22150
1977-78	17800	22220	23760	23950	17650	15160	21560	39150	53640	46980	25510	23130	27600
1978-79	24390	28630	29680	25710	17570	13590	13890	34480	35790	<u>21270</u>	17390	18000	23410
1979-80	18400	21700	25530	20240	18890	14770	20610	58380	48510	34410	20210	17710	26650
1980-81	20270	22540	35390	38540	<u>35390</u>	21630	18030	44470	64310	69630	44960	18370	36190
1981-82	20980	24880	29870	35210	33720	25700	20740	49060	76510	51260	33720	19340	35090
1982-83	23230	28350	29890	34910	34040	<u>26740</u>	22390	43660	59920	44260	33500	20440	33450
1983-84	18060	23950	35160	34580	22100	17400	18500	<u>26440</u>	53170	46340	31060	17650	28740
1984-85	15430	25120	33980	29740	19490	12050	19130	38730	51000	25120	18690	19950	25720
1985-86	26200	30100	23000	30200	20850	25240	25950	35220	58980	41160	25580	22630	30460
1986-87	30300	<u>30210</u>	20030	26270	20540	20400	20430	46210	35760	29070	19920	19200	26580
1987-88	23400	21030	18280	30870	27430	14840	23790	36250	44820	26580	18120	21550	25550
1988-89	22940	24700	29030	24040	23760	14400	23640	43020	48990	25570	30940	18370	27460
MEAN	16750	16230	15800	15960	15620	15050	21230	57550	88460	58050	27820	16580	30460
MEDIAN	14550	14240	12840	12000	12670	14770	20740	53400	91310	58690	27200	15500	31240

BRI3H

USGS #	BRILLIANT										River:	KOOTENAY	Drainage Area:	19300	Sq. Mi.
Monthly mean streamflow, adjusted for storage, in cfs.											River Mile:		1.9		
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.		
1927-28										60020	21860	12390			
1928-29	13480	9226	6629	5007	5223	7651	11570	54420	84420	34640	18920	11170	21920		
1929-30	7569	<u>4962</u>	6152	3919	6872	6846	33010	52300	74380	44760	21770	12270	22940		
1930-31	8188	<u>6647</u>	<u>5021</u>	5541	5788	7292	12720	61330	63030	33810	17270	13240	20060		
1931-32	7562	7664	6299	5571	7070	14390	31710	90310	113200	50290	24330	13310	30990		
1932-33	10420	13030	12650	8792	6347	8453	24080	74020	141800	83490	32360	18960	36300		
1933-34	21480	<u>23380</u>	<u>24550</u>	20680	15190	16740	<u>74690</u>	113800	83150	39470	20530	12420	38930		
1934-35	9557	17490	10050	10540	11180	10330	19550	71640	106000	67080	27000	14790	31340		
1935-36	9661	7286	6260	6008	<u>4126</u>	7216	36610	88470	70890	32110	17220	<u>10620</u>	24750		
1936-37	7190	5084	5735	<u>3370</u>	4950	<u>5039</u>	12440	57470	79340	41410	19360	12590	21230		
1937-38	11840	16790	9761	9731	7269	11020	36480	90110	115000	48840	17420	13740	32390		
1938-39	10850	8391	6970	7924	5366	8753	31180	81750	64340	48670	19670	12160	25630		
1939-40	15750	13140	12420	7353	7569	11440	27110	74600	64410	30010	16950	14730	24660		
1940-41	13740	9156	7708	6540	5974	10960	27760	55410	<u>53610</u>	28320	16570	23600	21670		
1941-42	23540	17050	23230	9955	8067	7904	27550	72750	89250	65450	26370	14590	32290		
1942-43	10840	9481	8300	6283	7083	8377	57820	62500	90350	74880	25990	12670	31290		
1943-44	11000	8259	6646	5810	5206	5928	11620	45580	54030	<u>23580</u>	17170	13200	<u>17350</u>		
1944-45	11580	8938	6059	6449	6311	6469	<u>9847</u>	62690	87040	42980	17090	12820	23260		
1945-46	9828	10420	8065	7571	6869	10420	34570	109000	110400	57950	23730	17620	33990		
1946-47	11790	9344	10370	8091	10720	14530	37410	106800	91590	49050	21000	15970	32330		
1947-48	<u>31280</u>	20060	11910	9160	8366	8601	28470	100200	146900	47650	28770	15660	38090		
1948-49	12530	9522	6753	5651	6715	8954	32970	99800	61700	28840	18510	12320	25470		
1949-50	9945	12430	11670	7775	8601	12640	24710	69100	133900	80210	28070	14760	34570		
1950-51	19560	18690	19370	14490	<u>20690</u>	12110	34320	112600	94130	80210	28400	20050	39680		
1951-52	24410	14790	12300	9444	9172	9179	43230	92200	84160	49110	22530	13000	32010		
1952-53	8726	6127	6131	10190	11140	8638	17920	72120	110800	66510	26900	14710	30070		
1953-54	12720	12350	9559	8174	9278	10250	21950	106300	124200	<u>110300</u>	39260	24760	40960		
1954-55	15200	16380	12460	8516	7219	6569	14490	51220	135200	82470	28570	15530	32890		
1955-56	18580	19110	13630	11720	8084	11720	46950	119800	132700	63820	25130	14470	40510		
1956-57	14310	9763	9334	6246	7103	9584	20350	<u>123600</u>	82370	33840	18780	12170	29110		
1957-58	11570	8834	7727	6901	8633	10070	21370	106400	75160	33400	17910	13420	26900		
1958-59	13480	11320	9883	10940	7654	8761	30220	81930	137300	74490	29140	<u>37230</u>	37770		
1959-60	29110	21690	15950	9516	9562	15100	41420	64080	107000	62070	23910	16930	34700		
1960-61	12830	12240	7713	8602	13030	12860	24340	105200	156400	42810	22650	13890	36070		
1961-62	14730	9891	8069	6854	8948	7513	36200	64810	98290	49060	26060	14510	28790		
1962-63	14690	15190	13620	9189	13890	11850	23610	71330	100000	56210	24450	16790	30950		
1963-64	11710	11910	9505	8306	6728	6787	17960	68760	132400	68140	29230	19010	32540		
1964-65	19890	14250	9989	9082	9562	10260	33350	74080	110700	52530	28810	16460	32480		
1965-66	14990	14240	10050	8986	7413	10470	32640	85940	110000	59170	23440	14010	32710		
1966-67	10390	9962	10530	9634	9997	9748	16000	73980	166900	74300	25600	14990	36040		
1967-68	12370	11870	8471	8441	10760	16070	14530	71860	113600	63320	28210	21710	31790		
1968-69	16820	15740	11820	8913	7731	9776	48220	112100	120300	56540	20160	15230	37040		
1969-70	14240	12150	8491	7374	7293	7722	12920	63210	92690	35190	17680	12090	24300		
1970-71	10020	7855	7666	8969	15340	10130	28320	111300	121600	67410	30320	14790	36230		
1971-72	11420	9868	7499	7237	8889	<u>25440</u>	23250	99750	152300	78120	37270	15930	39800		
1972-73	14870	11060	9356	8392	8121	9116	16370	63310	76930	40630	18170	12550	24150		
1973-74	11710	15210	12890	<u>20780</u>	12490	13670	37530	82000	<u>174000</u>	84640	34180	15450	<u>42940</u>		
1974-75	9171	10280	8342	8905	7741	8104	14490	66210	110600	62410	26820	18110	29170		
1975-76	14440	16940	22280	11360	10310	9025	30380	102500	84780	77410	<u>49170</u>	26930	38090		
1976-77	11840	8215	7959	6362	6944	6000	18430	45450	57400	26340	20450	15610	19290		
1977-78	10480	9648	10690	7595	6661	13130	28960	72900	98490	59770	23950	23630	30580		
1978-79	14480	10530	6983	5982	8335	9943	15520	65980	66130	34570	17010	11740	22340		
1979-80	7670	5281	9732	5751	6874	9193	41160	106500	68890	32480	19190	14840	27350		
1980-81	12670	12720	18960	15950	14670	14830	26060	95860	92170	78700	35490	16940	36420		
1981-82	14500	13390	11140	9647	16450	15540	19870	78770	129200	63250	30600	21470	35360		
1982-83	16450	12120	11480	12720	12790	19700	29730	79780	89850	63120	29380	15600	32850		
1983-84	10960	19650	9700	12620	9931	11340	23580	<u>43260</u>	104500	58280	25570	15100	28680		
1984-85	9867	10130	7912	6689	5965	6681	25890	84010	76870	32240	<u>16370</u>	16650	25010		
1985-86	16180	16830	9409	8850	11320	22650	33160	73540	97070	44470	22900	13640	30890		
1986-87	14010	15470	10310	7953	7254	17090	34300	90520	58850	32060	17220	11150	26470		
1987-88	<u>6623</u>	7253	7270	6008	5963	8967	36460	69210	77410	36680	17220	11720	24230		
1988-89	15110	13910	9081	9454	6167	9380	34520	75210	88370	39910	24120	18130	28690		
MEAN	13480	12140	10270	8663	8803	10740	28100	80680	99810	53860	24200	15750	30610		
MEDIAN	12530	11870	9505	8306	7741	9776	27760	74600	94130	51410	23820	14770	31290		

BRI3A

USGS # 12323040

MURPHY CREEK

River: COLUMBIA

Drainage Area: 34000 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 759

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										186900	112200	60710	
1928-29	37770	26540	18970	14540	10990	11770	16660	65310	189800	127900	94400	58860	56310
1929-30	31140	20200	15080	13940	12700	14540	38650	103000	164400	157200	106500	63410	62020
1930-31	32010	20180	14880	12160	12050	12760	20420	99280	166700	134700	88990	66650	56970
1931-32	35140	25860	19910	18760	14460	24210	44960	143100	233800	179700	109300	64790	76330
1932-33	35080	30090	28940	21360	16030	15530	25450	103800	239800	238000	132800	75170	80560
1933-34	47790	52530	39480	37030	28500	26470	78050	<u>202400</u>	226100	139200	97960	61920	86740
1934-35	34320	37030	28850	20690	23650	20220	25160	89780	211900	199400	118600	65890	73230
1935-36	35460	22160	16980	14830	11900	13120	33300	149100	206700	132000	88730	54130	65000
1936-37	31200	<u>18440</u>	<u>13540</u>	<u>10310</u>	<u>9622</u>	<u>11410</u>	<u>16660</u>	68460	163100	144000	85310	55070	52490
1937-38	31290	43660	27410	21600	17270	17570	36960	115000	232300	175000	79160	58760	71540
1938-39	39750	24620	19590	18200	15890	14630	35300	137300	157800	148200	89300	54600	63260
1939-40	37810	37780	31150	22140	19680	22930	43190	114100	177400	131200	82270	64830	65450
1940-41	48190	34170	21270	18100	17320	21610	45460	98850	135600	108100	79190	65460	57970
1941-42	56420	40680	40340	22840	22060	21610	30930	92810	185000	170200	99220	48300	69510
1942-43	35730	25120	20450	17850	16650	16140	55170	91190	158600	184200	100200	46170	64260
1943-44	32960	24190	20040	17900	15360	14160	19940	69180	140400	91270	77420	52490	<u>48000</u>
1944-45	39890	29900	21040	17840	17550	17500	18230	75470	177000	135400	76110	45500	56140
1945-46	<u>28220</u>	23490	18130	16700	16710	22110	38300	156100	250400	177900	95720	56700	75330
1946-47	31490	20890	19570	18050	21340	26140	44070	155800	215800	161400	85740	50750	71190
1947-48	63330	41960	24150	21320	19380	20220	29480	122900	318400	154800	98860	62330	81420
1948-49	40440	29100	22280	17940	15870	16960	35450	148200	166800	99770	75560	48500	59990
1949-50	30300	25740	26970	19250	20010	27270	31020	83720	229900	244800	105500	62000	75880
1950-51	44550	37180	33150	30020	35220	25840	40750	153900	191300	201900	98640	53700	79190
1951-52	48580	29730	23930	21170	19840	21610	39360	142200	195700	159100	87900	46050	69780
1952-53	35800	21820	16950	17080	20000	22490	22330	101000	207400	178200	91710	58160	66330
1953-54	40260	36350	28780	22560	19890	26030	27220	115800	241900	<u>276700</u>	139400	84610	<u>88750</u>
1954-55	45060	38170	33100	23580	21750	18900	24840	60240	214400	241800	114900	54110	74570
1955-56	39400	39600	26200	24160	19140	22570	48140	151400	282500	180100	98780	49980	81910
1956-57	43390	27520	21360	17920	19410	20900	27490	188800	220800	123600	76500	44800	69670
1957-58	35620	24240	18910	18730	20970	25120	33760	142100	238400	130800	82790	53280	68920
1958-59	44280	31990	22760	24210	20210	22500	36220	116700	246000	228300	114100	90420	83450
1959-60	66260	48970	33450	23770	22830	25320	60480	97610	192000	204100	104200	53770	77910
1960-61	42360	37050	21780	21290	27760	28850	38340	122400	<u>329600</u>	158300	93000	53430	81270
1961-62	38860	29110	20590	18080	22080	21670	41890	97160	199700	167200	108700	54370	68520
1962-63	40430	37890	31220	24980	27550	28380	37830	93610	213100	162700	99950	60410	71690
1963-64	39920	30910	23070	23250	18420	17820	26070	86210	245600	220600	111600	55920	75100
1964-65	59850	39050	25610	22310	22980	25890	37330	110600	214400	169500	115800	54490	75120
1965-66	38950	37950	25550	22360	20900	24070	45490	121300	225600	187400	102900	56520	76020
1966-67	42160	32100	24130	25610	30870	20400	28600	85540	295000	235600	112600	64320	83100
1967-68	48370	35560	36320	21670	26780	33950	30180	93250	220200	188700	103800	64920	75430
1968-69	43770	33970	34470	37090	34520	34530	60770	133500	193100	144100	87510	52910	74400
1969-70	48630	57980	64560	57120	25120	24640	23940	71140	108700	99490	83500	55100	60260
1970-71	45150	47000	46470	42940	33750	33780	33580	136100	183800	138900	109500	50140	75400
1971-72	41090	51520	65120	56000	35060	39560	45130	107000	230200	169400	122600	67760	86010
1972-73	56290	53200	74140	60970	43380	23840	37880	55550	73610	104700	98490	73280	63140
1973-74	58700	36410	17700	34250	41680	39740	36590	90590	118700	123000	110200	83570	66100
1974-75	66040	<u>67020</u>	69810	73000	75520	55600	52500	<u>52610</u>	73220	59490	77360	43140	63730
1975-76	41720	61480	64270	77700	69070	60560	46210	87670	80580	122600	<u>155000</u>	<u>98110</u>	80580
1976-77	<u>72770</u>	64650	75690	72050	53730	50820	53790	76440	81170	79190	73770	61010	68070
1977-78	40510	53160	35080	43620	48110	49630	41480	68780	66440	82810	74080	81240	57110
1978-79	66450	61110	77700	99280	60510	44800	44020	64870	<u>58020</u>	70890	84800	57800	66010
1979-80	54130	54640	<u>88330</u>	60290	56130	37360	43200	71090	69910	77900	76300	43930	61220
1980-81	39640	54600	84510	101000	<u>92820</u>	51060	32630	71380	116800	134700	124700	65240	80800
1981-82	51430	52080	72210	93960	62990	73000	<u>80950</u>	92090	95020	116100	105300	69490	80590
1982-83	53940	55560	62790	91010	86220	<u>75430</u>	62830	83430	87330	85280	97780	53630	74610
1983-84	44690	50720	81280	79740	86360	<u>57940</u>	25450	64700	61380	68920	93550	52770	64020
1984-85	47430	42030	79240	<u>109900</u>	92110	52230	38220	57380	70720	73740	<u>57460</u>	<u>41260</u>	63410
1985-86	55330	61480	86410	83610	61650	46350	48300	67300	75340	103600	90040	57730	69930
1986-87	47440	61780	72840	103300	68200	41330	39680	72090	83460	83750	75300	65440	67940
1987-88	65630	58260	69130	91090	74560	37580	50990	56910	75290	66710	82510	77140	67130
1988-89	58620	58360	78090	93220	75180	31100	43840	63560	73810	<u>55210</u>	60960	49120	61700
MEAN	44740	39450	38950	38970	33910	29540	38510	101800	173700	146700	96400	59610	70300
MEDIAN	42160	37180	28780	22840	22080	24640	37880	93610	189800	144000	96750	57220	69780

MUC3H

USGS # 12323040

MURPHY CREEK

River: COLUMBIA

Drainage Area:

34000 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile:

759

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-17710	-21936	-11687	
1928-29	-4472	-4775	-3583	-2934	-772	2648	6075	37922	5540	-15663	-8983	-12170	-78
1929-30	-6804	-5269	-887	-2366	2194	420	29414	9247	14340	-13773	-12610	-11105	145
1930-31	-9056	-4012	-3174	-192	-456	2181	7898	29964	10590	-12804	-11772	-10663	-134
1931-32	-4212	-1512	-2330	-5029	1560	4378	16798	31098	20855	-32801	-11039	-16880	14
1932-33	-3898	-667	-3479	-2937	-2263	805	16401	35877	30810	-30373	-21011	-15181	279
1933-34	1497	-5744	-883	-4257	-3504	3565	53221	20128	-29612	-10556	-14164	-13938	-343
1934-35	-2378	1741	-6287	-206	-969	-448	9446	40568	10873	-11346	-27181	-11281	194
1935-36	-6020	-4084	-2030	-1769	-2568	938	32283	36681	-18130	-15715	-9863	-10205	-26
1936-37	-6222	-4728	-1326	-2130	334	-937	7348	36436	12144	-17033	-14708	-5378	294
1937-38	3335	-7741	-6780	-2920	-2860	2549	21354	44812	4346	-33756	-17378	-1955	235
1938-39	-8021	-4658	-4224	-1963	-4369	1817	22082	33547	-8062	-8270	-8543	-8610	96
1939-40	3049	-7923	-3151	-5795	-3670	-166	10718	38787	-8027	-8692	-7734	-4259	312
1940-41	-359	-11025	-3627	-3481	-4017	781	15397	15452	4487	-513	-6628	-5372	116
1941-42	-950	-5522	-2430	-4569	-6846	-7026	14181	40217	-6559	-8349	-9744	-5014	-158
1942-43	-5984	-5775	-4067	-5592	-3442	-1725	30118	15700	8867	-7537	-15721	-6114	-154
1943-44	-2609	-6195	-5688	-5311	-4522	-2581	7638	30007	2515	-5354	-6438	-599	89
1944-45	-4217	-4658	-6309	-3369	-4181	-3802	1537	44225	5110	-16715	-9659	-4245	-476
1945-46	-2941	-2745	-2594	-2232	-3517	-3973	17548	52878	-10918	-21621	-13947	-5344	83
1946-47	-5600	-3040	-866	-2965	-3194	-2645	20799	33727	-6596	-13733	-13275	-1289	112
1947-48	-1853	-5341	-2143	-4374	-4346	-5230	14609	68494	-16338	-31218	-3992	-8674	32
1948-49	-4482	-5415	-6956	-5572	-2200	-970	21732	37924	-22056	-3736	-1911	-5908	88
1949-50	-4648	1024	-3779	-4919	-4469	-7034	7087	33547	42345	-36374	-11103	-8175	218
1950-51	-4270	-3181	-832	-5841	-6077	-6712	13687	46425	-1870	-11105	-16219	-6310	-152
1951-52	-2734	-3741	-3392	-4807	-3890	-6036	28980	30813	-6282	-17189	-5733	-3992	150
1952-53	-8818	-6786	-3537	519	-1518	-6810	8506	36287	10047	-16408	-4457	-8861	-151
1953-54	-1321	-3446	-6556	-5459	-1172	-7078	6455	62502	2112	-17572	-19737	-9293	-27
1954-55	-6262	1795	-5488	-4677	-5795	-4857	2782	31374	49748	-31451	-24498	-5759	-348
1955-56	-321	-4998	-2544	-3732	-4328	-3278	26013	55946	-22895	-18835	-15948	-692	402
1956-57	-5642	-4395	-1972	-4006	-5080	-3747	9953	57630	-24428	-12158	-9545	-464	-233
1957-58	-4648	-2594	-1451	-3313	-3284	-4583	7980	66445	-25150	-19126	-5723	-3807	155
1958-59	-2489	-5770	-1469	-3300	-4501	-4944	15557	35692	25906	-27030	-21500	-311	436
1959-60	-4485	-6063	-3444	-4340	-3657	695	7737	18615	28191	-18468	-18439	686	-315
1960-61	-1708	-6342	-3160	-2471	-3652	-4800	5919	70418	-11359	-32965	-7604	-9185	-499
1961-62	1333	-5473	-2690	-3057	-3122	-5697	22447	28812	11466	-21300	-13315	-5676	280
1962-63	-1418	-2644	-3265	-5304	-1150	-4660	10348	38985	-822	-14760	-12881	85	204
1963-64	-5456	-4075	-2267	-5242	-3766	-3365	6760	36214	25106	-24086	-16588	1057	305
1964-65	-6300	-3914	-3664	-2653	-3733	-6316	22509	25863	8713	-17687	-8877	-9864	-520
1965-66	-21	-3193	-3318	-3334	-4650	-3952	11465	40930	2735	-13632	-9895	-3555	832
1966-67	-6909	-5643	-133	-4882	-10279	-1119	4319	49659	49434	-35394	-15305	-3509	1698
1967-68	-9509	-5422	-16440	-2257	-4757	-2536	259	47905	27491	3035	-5980	3379	2935
1968-69	-837	164	-10672	-17490	-17905	-14793	19673	66385	60728	-7934	-14842	-3041	4981
1969-70	-9205	-27362	-43729	-40206	-9063	-8684	1400	43620	99232	13842	-12528	-17148	-914
1970-71	-18415	-27777	-29954	-25408	-6731	-15235	15028	63057	61329	19259	-5750	-2626	2204
1971-72	-8253	-26798	-46831	-39998	-17990	-415	-3473	80552	102523	30256	-6213	-18843	3723
1972-73	-20999	-27910	-53316	-41711	-27588	-3868	-4495	72806	101445	20823	-24977	-31959	-3421
1973-74	-25306	-2405	7559	-3054	-18076	-15870	27978	52188	204698	81693	-3774	-25572	23374
1974-75	-38602	-44291	-50534	-57316	-59262	-40446	-22874	69786	146317	113103	5565	7466	2705
1975-76	-2659	-18790	-24787	-52692	-47922	-40930	8713	103979	102233	88934	1028	-6639	9385
1976-77	-36839	-41366	-56328	-55201	-38507	-35317	-11890	26089	74480	15082	8718	-15180	-13821
1977-78	-15491	-31499	-14928	-27523	-33374	-24690	14927	63219	141801	81770	7333	1936	13811
1978-79	-24394	-30946	-58047	-82547	-42202	-24736	-11575	62453	106659	50962	-11999	-10341	-6316
1979-80	-27695	-38983	-84614	-46614	-40238	-18595	36160	140522	95155	26211	-12169	2582	4341
1980-81	-3403	-24425	-48294	-71267	-63555	-22524	17582	114887	70083	55471	-10483	-8992	805
1981-82	-14799	-18596	-48546	-72792	-35497	-46197	-44738	49678	181755	59533	-4299	1360	546
1982-83	-13166	-28843	-40007	-67373	-60683	-39134	-5716	68245	109662	82045	-3640	-5134	-11
1983-84	-17361	-8069	-60055	-54504	-64960	-34233	20447	16601	156867	94639	98	-1982	3920
1984-85	-18059	-19229	-61007	-93306	-76352	-38069	11596	111525	106974	40537	5971	1236	-2042
1985-86	-16844	-29364	-66218	-65165	-40785	-8900	8986	74890	159581	31637	-7430	-16791	2004
1986-87	-16868	-33115	-51489	-86230	-52420	-8439	22160	109816	87150	26246	-11388	-22307	-2849
1987-88	-45863	-39650	-51456	-76834	-59949	-18504	22029	86977	114196	51327	-9631	-34270	-5063
1988-89	-19948	-25678	-56611	-72258	-59573	-12661	16335	79053	125298	63486	25258	-2506	5291
MEAN	-8899	-11785	-17575	-21186	-16477	-9318	12030	50890	42670	5148	-9625	-7401	799

MUC3SS

USGS # 12323040

MURPHY CREEK

River: COLUMBIA

Drainage Area: 34000 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 759

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										169200	90220	49020	
1928-29	33300	21780	15390	11610	10210	14420	22740	103200	195300	112300	85420	46690	56240
1929-30	24330	14930	14190	11570	14890	14960	68060	112300	178700	143400	93890	52310	62170
1930-31	22950	16170	<u>11710</u>	11960	11590	14940	28320	129200	177300	121900	77220	55990	56840
1931-32	30920	24350	17580	13730	18020	28590	61750	174200	254700	146900	98260	47910	76340
1932-33	31190	29420	25480	18430	13760	16340	41850	139700	270600	207600	111800	59990	80840
1933-34	49290	<u>46780</u>	38600	<u>32770</u>	24990	30030	<u>131300</u>	222600	196500	128700	83790	47980	86390
1934-35	31940	38770	22570	20480	22680	19770	34600	130300	222800	188100	91410	54610	73430
1935-36	29440	18070	14950	13060	<u>9329</u>	14060	65580	185700	188500	116300	78870	43920	64970
1936-37	24980	<u>13710</u>	12210	<u>8184</u>	9956	<u>10480</u>	24010	104900	175300	127000	70610	49690	52790
1937-38	34630	35910	20630	18690	14410	20120	58310	159800	236700	141200	<u>61780</u>	56810	71770
1938-39	31730	19960	15360	16230	11520	16450	57380	170800	149700	140000	80760	45990	63350
1939-40	40860	29850	28000	16350	15990	22760	53910	152800	169400	122500	74540	60570	65760
1940-41	47830	23140	17840	14620	13300	22390	60860	114300	<u>140100</u>	107600	72560	60090	58090
1941-42	55470	35150	37910	18270	15210	14580	45120	133000	178500	161900	89480	43290	69360
1942-43	29750	19340	16380	12260	13210	14410	85280	106900	167400	176700	84480	40050	64110
1943-44	30350	17990	14350	12590	10830	11580	27580	99180	143000	<u>85920</u>	70980	51890	<u>48090</u>
1944-45	35680	25240	14730	14470	13370	13900	<u>19760</u>	119700	182100	118700	66450	41250	55660
1945-46	25270	20750	15540	14470	13190	18130	55850	209000	239500	156300	81770	51360	75420
1946-47	25890	17850	18710	15090	18150	23500	64870	189500	209200	147700	72460	49460	71310
1947-48	61470	36610	22010	16940	15030	14990	44090	191400	302100	123600	94870	53660	81450
1948-49	35950	23690	15320	12360	13670	15990	57180	186100	144800	96030	73650	42590	60080
1949-50	25660	26770	23190	14330	15540	20240	38100	117300	272300	208500	94420	53830	76100
1950-51	40280	34000	32310	24180	29150	19130	54440	200400	189400	190800	82420	47390	79030
1951-52	45840	25990	20530	16360	15950	15580	68340	173000	189400	141900	82170	42060	69930
1952-53	26990	15040	13410	17600	18480	15680	30840	137300	217400	161800	87250	49300	66170
1953-54	38940	32900	22220	17100	18720	18950	33680	178300	244000	<u>259200</u>	119600	75320	88720
1954-55	38790	39970	27610	18910	15950	14050	27630	91620	264100	210400	90390	48360	74220
1955-56	39080	34610	23650	20420	14810	19290	74150	207300	259600	161200	82810	49290	82320
1956-57	37750	23130	19390	13920	14330	17150	37450	<u>246500</u>	196400	111400	66950	44340	69440
1957-58	30970	21650	17460	15410	17690	20540	41740	208600	213200	111700	77060	49470	69070
1958-59	41790	26220	21290	20910	15710	17550	51770	152400	271900	201200	92610	90110	83890
1959-60	<u>61770</u>	42910	30010	19430	19180	26010	68220	116200	220200	185600	85750	54460	77590
1960-61	40650	30710	18620	18820	24100	24050	44260	192800	318400	125400	85400	44240	80770
1961-62	40190	23640	17900	15030	18960	15970	64340	126000	211100	145900	95360	48700	68800
1962-63	39020	35250	27960	19670	28400	23720	48180	132600	212200	147900	87070	60500	71890
1963-64	34470	26840	20800	18010	14650	14460	32830	122400	270700	196600	95030	56970	75410
1964-65	53550	35130	21940	19660	19250	19580	59840	136400	223200	151900	106900	44630	74600
1965-66	38930	34780	22230	19030	16250	20120	56960	162300	228300	173700	92960	52960	76850
1966-67	35250	26460	24000	20920	20590	19280	30920	135200	<u>344400</u>	200200	97300	60810	84800
1967-68	38860	30140	19880	19410	22020	31420	30440	141200	247600	191800	97790	68300	78370
1968-69	42930	34130	23800	19600	16610	19740	80440	199900	253900	136100	72670	49870	79380
1969-70	39430	30610	20830	16910	16060	15960	25340	114800	207900	113300	70980	<u>37950</u>	59350
1970-71	26730	19230	16510	17530	27020	18550	48610	199200	245100	158200	103800	47510	77600
1971-72	32840	24730	18290	16000	17070	<u>39150</u>	41660	187600	332700	199700	116300	48910	89730
1972-73	35290	25290	20820	19260	15790	19970	33380	128400	175100	125500	73520	41320	59720
1973-74	33400	34010	25260	31190	23610	23870	64570	142800	323400	204700	106400	58000	89470
1974-75	27440	22730	19280	15680	16260	15150	29630	122400	219500	172600	82930	50610	66440
1975-76	39060	42690	<u>39490</u>	25010	21150	19630	54930	191700	182800	211600	<u>156100</u>	<u>91470</u>	<u>89960</u>
1976-77	35930	23280	19360	16850	15220	15500	41900	102500	155600	94270	82490	45830	54250
1977-78	25020	21660	20160	16100	14730	24940	56400	132000	208200	164600	81420	83170	70920
1978-79	42060	30160	19660	16730	18310	20070	32440	127300	164700	121900	72800	47460	59700
1979-80	26430	15660	23720	13670	15890	18770	79360	211800	165100	104100	64130	46520	65560
1980-81	36240	30170	36210	29780	<u>29260</u>	28530	50220	186300	186900	190100	114200	56250	81610
1981-82	36640	33480	23670	21170	27490	26800	36220	141800	276800	175600	101000	70850	81140
1982-83	40780	26720	22790	23640	25540	36290	57110	151700	197000	167300	94140	48500	74600
1983-84	27330	42650	21230	25240	21400	23710	45900	<u>81300</u>	218200	163600	93650	50790	67940
1984-85	29370	22800	18240	16560	15760	14160	49810	168900	177700	114300	63430	42520	61370
1985-86	38480	32120	20190	18440	20870	37450	57290	142200	234900	135300	82610	40940	71940
1986-87	30570	28660	21350	17120	15780	32890	61840	181900	170600	110000	63910	43130	65090
1987-88	<u>19770</u>	18610	17670	14260	14610	19080	73020	143900	189500	118000	72880	42870	62070
1988-89	38670	32680	21480	20960	15610	18440	60170	142600	199100	118700	86220	46620	67000
MEAN	35840	27670	21370	17790	17430	20230	50540	152700	216400	151900	86780	52210	71100
MEDIAN	35680	26720	20630	17100	15950	19130	50220	142600	209200	147300	84940	49300	71310

MUC3A

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FLATHEAD RIVER AND CLARK FORK

**HUNGRY HORSE
COLUMBIA FALLS
KERR**

**THOMPSON FALLS
NOXON RAPIDS
CABINET GORGE**

PEND OREILLE RIVER IN IDAHO AND WASHINGTON

**PRIEST LAKE
ALBENI FALLS
BOX CANYON
BOUNDARY**

PEND D'OREILLE RIVER IN BRITISH COLUMBIA

**SEVEN MILE
WANETA**

SPOKANE RIVER

**POST FALLS (COEUR D'ALENE LAKE)
UPPER FALLS
MONROE STREET
NINE MILE
LONG LAKE
LITTLE FALLS**

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USGS # 12362001

HUNGRY HORSE

River: SF FLATHEAD

Drainage Area:

1654 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

5.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										5579	1487	715	
1928-29	915	740	528	452	430	606	2109	10910	10610	2486	811	493	2598
1929-30	445	392	372	309	538	470	8487	9178	6830	1864	690	558	2510
1930-31	922	1004	758	694	755	1198	3305	11800	5661	1368	618	691	2408
1931-32	615	820	788	552	1445	2135	5485	14450	12260	3476	1139	719	3656
1932-33	832	2292	1907	1170	910	878	4008	11140	<u>25010</u>	5396	1426	870	4647
1933-34	2899	4128	3504	2729	2043	2945	11770	15230	6920	1907	775	539	4623
1934-35	879	2064	997	924	1029	1280	3058	12750	11990	3213	964	574	3317
1935-36	451	396	<u>313</u>	348	349	474	7222	17460	7140	1560	676	498	3081
1936-37	432	361	410	<u>266</u>	302	402	2020	11360	8780	2296	873	504	2344
1937-38	551	824	961	957	946	939	5312	11620	10470	2622	893	568	3059
1938-39	572	582	804	754	515	1302	7618	15920	7632	2727	832	540	3330
1939-40	467	477	697	556	579	1378	4561	10560	5761	1326	607	499	2293
1940-41	508	491	477	465	497	953	3255	6613	3965	1152	557	785	1647
1941-42	1522	1192	2357	958	604	623	5460	9266	9157	3533	1014	684	3039
1942-43	523	1084	1098	751	739	932	9805	11120	16040	8152	1670	833	4397
1943-44	743	639	616	450	382	450	2591	8865	5414	1668	754	675	1941
1944-45	630	598	590	813	721	745	1836	11940	10810	3295	912	667	2807
1945-46	922	1916	1130	877	720	1326	7176	14090	10850	3505	1130	715	3705
1946-47	1539	1725	1937	1474	1750	1873	6516	17740	11670	3728	1228	978	4358
1947-48	2494	1429	950	932	693	634	3972	<u>18140</u>	15230	3018	1249	638	4120
1948-49	482	467	439	356	357	579	5620	15950	7906	1850	762	622	2962
1949-50	703	1394	1476	967	863	1097	3490	12420	19940	<u>9717</u>	2282	937	4618
1950-51	1945	2367	2671	1634	2210	1107	5387	15250	11060	6218	1548	764	4359
1951-52	686	2629	1210	768	585	624	5083	6817	2437	2365	791	622	2052
1952-53	<u>387</u>	1912	4384	1907	428	468	561	358	366	535	395	<u>355</u>	<u>1012</u>
1953-54	1293	3722	2267	3177	6417	2217	8545	3239	1986	6290	1632	763	3435
1954-55	1620	1341	6584	7565	4650	6189	2552	903	2240	5840	1234	625	3455
1955-56	1843	1899	2930	6220	8616	9660	8370	2216	5097	2920	1030	1477	4335
1956-57	3341	5265	<u>8985</u>	<u>10030</u>	3987	671	202	1140	1237	1787	784	5540	3583
1957-58	4772	<u>9092</u>	5601	1001	<u>208</u>	359	289	4468	2090	1995	710	798	2630
1958-59	1500	3790	4375	7024	7497	6849	12590	2920	7345	6914	1569	1890	<u>5326</u>
1959-60	4571	3628	3002	2756	6476	3906	11360	2869	5749	3991	1143	653	4150
1960-61	690	955	898	782	6281	8490	<u>13270</u>	3695	5589	2220	643	2085	3761
1961-62	2222	391	6605	9099	6782	408	5732	4997	3835	3425	1062	645	3754
1962-63	1357	1568	6295	7321	2026	259	8484	3415	911	3014	812	722	3025
1963-64	1403	<u>204</u>	7428	9779	3214	3900	3747	3166	6138	5034	1179	1464	3903
1964-65	1437	1981	5243	8221	<u>9447</u>	<u>14840</u>	6121	2588	205	2735	1650	2506	4731
1965-66	2888	2273	8239	8347	2673	2150	984	2757	4356	3320	1567	4896	3719
1966-67	<u>8803</u>	7679	4874	4167	2479	4039	5868	1848	1391	953	1253	4760	4012
1967-68	4742	3533	7316	7961	407	397	676	2155	5046	1399	1306	3421	3212
1968-69	2880	2127	5834	5677	8094	5981	9976	1474	169	1530	6036	7481	4742
1969-70	4400	3653	6096	525	565	1522	5603	2894	2118	577	4113	6413	3215
1970-71	5763	1539	6581	6399	1614	3535	10480	2510	4419	2753	1728	3932	4284
1971-72	3635	7267	7825	6899	3771	6763	7912	3510	2170	<u>292</u>	<u>213</u>	2801	4418
1972-73	5373	3905	5015	5561	5901	1449	1878	758	<u>156</u>	3738	4528	543	3229
1973-74	4075	2334	844	4603	6788	7764	10970	2951	2605	5385	2186	4094	4526
1974-75	5986	7950	5514	3532	2033	2750	3012	2543	1965	3835	1979	2789	3668
1975-76	3966	5768	3338	4471	4613	6248	8758	1969	4444	3885	1651	630	4134
1976-77	6011	2294	6490	4111	2428	2953	2648	211	3050	4079	5180	2280	3496
1977-78	5259	4810	532	3847	3393	2664	350	539	2726	2677	1625	1317	2473
1978-79	2561	7683	7862	4770	371	2151	1289	4637	2934	4125	5863	2392	3919
1979-80	5657	7381	2886	723	477	<u>237</u>	<u>183</u>	272	4574	2242	2135	3954	2556
1980-81	2267	3482	5436	1983	2568	3604	4432	3589	10310	3787	1010	3454	3820
1981-82	6609	3316	3071	4264	2644	4244	7567	3171	2527	5657	1348	836	3783
1982-83	1211	2147	2854	3712	5016	3695	6615	3980	932	4329	1829	5834	3496
1983-84	5099	1094	5438	3403	5757	3635	1535	2478	1191	512	3326	4361	3151
1984-85	3205	1871	4803	6403	6081	4169	741	262	2485	4775	7218	6275	4020
1985-86	3648	613	5655	5025	2095	595	2098	2917	5242	1783	2852	6507	3258
1986-87	4695	1731	3370	4138	2552	1048	430	1206	1131	1289	4414	<u>9533</u>	2962
1987-88	6416	2978	2637	3128	8909	10250	2237	<u>205</u>	343	2347	1962	2574	3655
1988-89	1671	1186	2221	2503	5026	3940	559	212	225	3593	<u>7218</u>	8988	3100
MEAN	2556	2530	3382	3298	2824	2770	4980	6322	5784	3219	1808	2198	3473
MEDIAN	1671	1912	2886	2729	2033	1449	4561	3510	4574	2967	1241	835	3496

HGH3H

USGS # 12362001

HUNGRY HORSE

River: SF FLATHEAD

Drainage Area:

1654 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

5.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	364	30
1951-52	1633	-967	-116	28	117	-6	2293	7343	6217	158	84	-51	1396
1952-53	26	-1525	-3794	-836	622	387	2997	10133	16259	4759	758	247	2496
1953-54	-844	-2999	-1538	-2460	-5493	-1217	-5252	14690	12782	2103	-19	248	882
1954-55	-198	134	-5370	-6588	-3827	-5433	-791	8533	13655	-202	-84	8	-18
1955-56	-263	-126	-1185	-4912	-7540	-8316	-2379	14762	9668	477	43	-805	-25
1956-57	-2408	-4279	-7629	-9026	-3249	134	2684	16115	7921	179	-99	-4943	-368
1957-58	-4145	-8318	-4922	-481	478	448	2705	12572	6318	11	-8	20	391
1958-59	23	-960	-1884	-4854	-5978	-5510	-6426	9143	16323	248	-23	8	34
1959-60	15	-114	-1032	-1637	-5542	-1974	-5630	6384	9085	19	-8	-4	-16
1960-61	0	0	-255	-122	-4345	-6694	-9253	11027	9205	-4	38	-1315	-106
1961-62	-938	532	-5610	-8195	-5711	481	2020	8754	9705	69	-8	-12	106
1962-63	-11	31	-4635	-6191	-49	1141	-5166	6717	8268	0	11	-71	-4
1963-64	-872	390	-6683	-8866	-2652	-3212	-1615	8847	14821	141	27	24	7
1964-65	8	-598	-2983	-6693	-7828	-13139	-57	11058	17524	2484	0	-165	-15
1965-66	-1444	-1006	-7197	-7458	-1959	-946	3786	9875	6539	-46	-636	-4292	-404
1966-67	-8067	-6818	-3655	-3034	-1403	-3182	-3665	12068	18542	4231	-198	-4167	56
1967-68	-3684	-1856	-6259	-6886	1112	1907	1491	8346	8265	2225	130	-418	344
1968-69	-42	-24	-4518	-3990	-7104	-4971	-2638	11441	9072	2301	-5045	-6593	-970
1969-70	-3448	-2896	-5371	228	220	-723	-4041	10975	14526	2538	-3055	-5553	281
1970-71	-4843	-460	-5437	-4726	2365	-2133	-5595	15812	11362	2545	-331	-3206	429
1971-72	-2918	-6444	-7081	-6063	-2903	-3383	-4030	11389	17801	5401	1551	-1866	124
1972-73	-4389	-3010	-3905	-4558	-5405	-529	413	8778	8682	-1681	-3830	4	-773
1973-74	-3403	-155	833	-1573	-5330	-6150	-5225	8350	21763	1897	-647	-3230	613
1974-75	-5375	-7147	-4850	-2788	-1410	-1935	-1732	6846	18292	4058	-213	-1512	180
1975-76	-2419	-3502	-580	-2998	-3447	-5281	-3615	14795	7276	1143	-11	130	144
1976-77	-5477	-1697	-5890	-3610	-1841	-2293	1370	7641	2382	-2708	-4352	-1306	-1497
1977-78	-3980	-3596	1074	-2981	-2692	-569	5729	10305	11598	2879	-137	28	1484
1978-79	-1764	-6920	-7197	-4274	382	-828	1676	10424	8383	-1551	-5007	-1833	-729
1979-80	-5106	-6963	-2120	-247	69	478	5985	12977	3359	286	-1097	-2741	414
1980-81	-1510	-2084	-2655	-65	-1093	-1983	615	10294	2071	91	15	-2832	89
1981-82	-6040	-2668	-2340	-3612	-989	-2742	-4607	9626	15469	758	53	-98	225
1982-83	-324	-1236	-1993	-2634	-4160	-2151	-3244	6073	9083	503	-537	-5002	-442
1983-84	-4162	491	-4587	-1709	-4919	-2505	2552	6070	10987	2933	-2365	-3390	-53
1984-85	-2166	-723	-3923	-5802	-5395	-3449	4552	15065	7242	-3052	-6151	-3024	-558
1985-86	-507	2938	-4522	-4031	-263	3798	3690	8070	3352	289	-2050	-5485	438
1986-87	-3617	-201	-2396	-3432	-1882	618	6189	9064	2606	259	-3574	-8910	-432
1987-88	-5926	-2464	-2071	-2553	-8463	-9106	3001	9951	5806	-1113	-1467	-2072	-1361
1988-89	-298	394	-1112	-1645	-4207	-2747	6712	12261	12013	-340	-5758	-7792	639
MEAN	-2339	-2022	-3563	-3718	-2940	-2466	-382	10330	10370	902	-1158	-2092	78

HGH3S

USGS # 12362001

HUNGRY HORSE

River: SF FLATHEAD

Drainage Area:

1654 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

5.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										5579	1487	715	
1928-29	915	740	528	452	430	606	2109	10910	10610	2486	811	<u>493</u>	2598
1929-30	445	392	372	309	538	470	8487	9178	6830	1864	690	558	2510
1930-31	922	1004	758	694	755	1198	3305	11800	5661	1368	618	691	2408
1931-32	615	820	788	552	1445	2135	5485	14450	12260	3476	1139	719	3656
1932-33	832	2292	1907	1170	910	878	4008	11140	<u>25010</u>	5396	1426	870	4647
1933-34	2899	<u>4128</u>	<u>3504</u>	2729	2043	2945	<u>11770</u>	15230	6920	1907	775	539	4623
1934-35	879	2064	997	924	1029	1280	3058	12750	11990	3213	964	574	3317
1935-36	451	396	<u>373</u>	346	349	474	7222	17460	7140	1560	676	498	3081
1936-37	432	<u>361</u>	410	<u>266</u>	<u>302</u>	<u>402</u>	2020	11360	8780	2296	873	504	2344
1937-38	551	824	961	957	946	939	5312	11620	10470	2622	893	568	3059
1938-39	572	562	804	754	515	1302	7618	15920	7632	2727	832	540	3330
1939-40	467	477	697	556	579	1378	4561	10560	5761	1326	607	499	2293
1940-41	508	491	477	465	497	953	3255	<u>6613</u>	3965	<u>1152</u>	557	785	<u>1647</u>
1941-42	1522	1192	2357	958	604	623	5460	9266	9157	3533	1014	684	3039
1942-43	523	1084	1098	751	739	932	9805	11120	16040	8152	1670	833	4397
1943-44	743	639	616	450	382	450	2591	8865	5414	1668	754	675	1941
1944-45	630	598	590	813	721	745	1836	11940	10810	3295	912	667	2807
1945-46	922	1916	1130	877	720	1326	7176	14090	10850	3505	1130	715	3705
1946-47	1539	1725	1937	1474	1750	1873	6516	17740	11670	3728	1228	978	4358
1947-48	2494	1429	950	932	693	634	3972	18140	15230	3018	1249	638	4120
1948-49	482	467	439	356	357	579	5620	15950	7906	1850	762	622	2962
1949-50	703	1394	1476	967	863	1097	3490	12420	19940	<u>9717</u>	<u>2282</u>	937	4618
1950-51	1945	2367	2671	1634	2210	1107	5387	15250	11060	6218	1548	1128	4389
1951-52	2319	1662	1094	796	702	618	7376	14160	8654	2523	875	572	3449
1952-53	<u>413</u>	387	590	1071	1050	855	3558	10490	16620	5295	1153	602	3508
1953-54	450	723	729	717	924	1000	3293	17930	14770	8393	1613	1011	4316
1954-55	1422	1475	1213	976	823	756	1761	9436	15890	5638	1150	633	3436
1955-56	1580	1773	1745	1308	1076	1343	5991	16980	14770	3398	1073	672	4310
1956-57	933	986	1355	1005	737	805	2887	17260	9158	1966	685	596	3215
1957-58	627	775	679	520	686	807	2994	17040	8408	2006	703	817	3022
1958-59	1523	2830	2491	2169	1519	1340	6166	12060	23670	7161	1546	1898	<u>5360</u>
1959-60	<u>4587</u>	3514	1970	1120	934	1932	5727	9254	14830	4010	1135	649	4134
1960-61	690	955	643	660	1935	1796	4016	14720	14790	2216	681	770	3655
1961-62	1284	922	995	904	1071	888	7751	13750	13540	3493	1054	633	3860
1962-63	1345	1600	1660	1130	1977	1399	3318	10130	9179	3014	824	651	3020
1963-64	531	594	745	912	562	688	2132	12010	20960	5175	1206	1487	3909
1964-65	1445	1383	2260	1528	1619	1698	6063	13650	17730	5220	1650	2341	4717
1965-66	1444	1267	1043	890	714	1204	4770	12630	10890	3275	931	604	3315
1966-67	736	861	1219	1133	1075	857	2203	13920	19930	5184	1055	593	4068
1967-68	1058	1678	1057	1075	1519	2304	2168	10500	13310	3624	1436	3003	3556
1968-69	2838	2104	1316	1687	991	1010	7338	12910	9240	3831	991	888	3773
1969-70	952	757	725	753	785	799	1562	13870	16640	3114	1058	861	3496
1970-71	919	1078	1144	1672	<u>3979</u>	1402	4888	<u>18320</u>	15780	5298	1397	726	4714
1971-72	718	824	743	837	868	3379	3881	14900	19970	5693	1763	935	4542
1972-73	984	896	1110	1003	496	920	2291	9536	8839	2057	699	546	2456
1973-74	672	2179	1677	<u>3030</u>	1459	1614	5742	11300	24370	7282	1538	864	5140
1974-75	611	803	664	744	624	815	<u>1280</u>	9389	20260	7892	1765	1278	3847
1975-76	1547	2266	2758	1473	1165	968	5143	16760	11720	5027	1640	760	4279
1976-77	534	597	600	501	587	659	4019	7852	5433	1370	828	974	1999
1977-78	1280	1214	1606	866	701	2095	6079	10840	14320	5556	1488	1345	3957
1978-79	797	763	665	497	754	1322	2964	15060	11320	2574	856	559	3189
1979-80	551	418	766	477	546	715	6168	13250	7933	2528	1038	1213	2970
1980-81	757	1399	2781	1918	1475	1622	5047	13880	12380	3879	1025	622	3909
1981-82	570	648	731	652	1655	1502	2960	12800	18000	6415	1401	738	4007
1982-83	887	911	861	1078	857	1544	3371	10050	10020	4831	1292	832	3054
1983-84	937	1585	851	1695	838	1131	4087	8548	12180	3446	961	972	3097
1984-85	1039	1148	880	600	686	719	5292	15330	9727	1723	1067	<u>3251</u>	3462
1985-86	3141	3551	1133	994	1833	<u>4393</u>	5788	10990	8595	2073	802	1022	3696
1986-87	1078	1530	974	707	670	1667	6619	10270	<u>3737</u>	1548	839	624	2531
1987-88	491	514	566	575	446	1149	5239	10160	6149	1235	<u>495</u>	501	2294
1988-89	1373	1580	1110	858	819	1193	7271	12470	12240	3253	1460	1196	3739
MEAN	1099	1271	1163	982	992	1233	4742	12760	12250	3772	1098	882	3522
MEDIAN	887	1004	974	890	819	1097	4770	12470	11320	3347	1046	715	3508

HG3A

USGS # 12363000

COLUMBIA FALLS

River: FLATHEAD

Drainage Area:

4464 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

143

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										18870	4979	2797	
1928-29	3879	2882	2014	1719	1526	1927	5449	28980	28950	7966	3148	1969	7559
1929-30	1600	1293	1317	1338	1671	1624	20140	24300	20580	6781	2835	2108	7134
1930-31	2580	2534	1802	1714	2094	2667	8043	30350	15670	4687	2301	2249	6418
1931-32	1920	2271	1815	1340	2987	5506	14340	42350	37560	11350	4174	2680	10690
1932-33	2642	5225	4615	2298	1876	2102	10320	30460	<u>61910</u>	16830	4892	3209	12200
1933-34	8117	<u>11050</u>	9035	7264	5103	6698	<u>32210</u>	43350	20050	6754	2924	1909	12900
1934-35	2254	6722	2892	3484	3355	2816	7227	34030	34910	11990	3845	2210	9662
1935-36	1657	1446	<u>1113</u>	1132	1171	1629	16680	43130	19410	5180	2510	<u>1790</u>	8089
1936-37	<u>1431</u>	<u>1182</u>	1178	<u>928</u>	<u>905</u>	<u>1083</u>	5028	30580	27370	8145	3055	1829	6920
1937-38	2012	3027	2332	2501	2180	2481	15190	35100	32610	9629	3453	2273	9416
1938-39	2200	1946	2254	2141	1303	3215	18520	38960	19990	8536	3016	1968	8710
1939-40	1582	1587	2128	1544	1585	3041	10570	27930	16230	4434	2103	1981	6236
1940-41	2017	1675	1559	1449	1358	2202	8735	18070	11260	<u>4178</u>	<u>1980</u>	3174	<u>4818</u>
1941-42	4852	3620	7336	3308	2156	1788	13040	25540	25210	12460	4046	2711	8868
1942-43	2063	2960	3145	2355	2525	2634	24530	27630	38480	20290	5049	2614	11190
1943-44	2298	1892	1655	1291	1143	1260	5748	21080	14390	4855	2589	2248	5048
1944-45	2254	1937	1605	1909	1787	1853	3959	30000	28570	9980	3147	2507	7487
1945-46	2746	5007	3026	2383	2019	3326	17540	39560	30060	10960	3883	2633	10290
1946-47	4125	4086	3800	2658	3418	4186	17030	<u>46490</u>	31100	11350	4562	3591	11400
1947-48	8546	4803	2852	2460	1893	1837	10370	45840	39350	9445	5347	2519	11290
1948-49	1837	1573	1370	1269	1309	1682	13140	40020	22400	6758	3245	2365	8117
1949-50	2398	4375	4271	2563	2379	3128	8375	32770	51670	<u>25140</u>	6885	3210	12290
1950-51	6376	6781	6938	4601	5955	3276	13260	43850	31180	19860	5855	5093	12790
1951-52	7564	5994	3712	2432	2012	1906	17260	29900	16490	8917	3729	2351	8536
1952-53	1561	2855	5205	3776	2565	1949	5817	19550	29010	12010	4103	2276	7571
1953-54	2503	5177	3685	4273	7667	3658	12050	33670	29970	24530	6900	4535	11570
1954-55	4903	4419	8797	9122	5920	7344	4832	14670	29060	17430	4797	2519	9506
1955-56	6191	6000	5498	8247	9892	11020	16130	29580	30900	11890	4486	3591	11940
1956-57	5864	7037	<u>10560</u>	<u>11210</u>	5181	2175	4561	31940	18560	7116	3151	6916	9561
1957-58	6043	10260	6622	1987	1299	1841	5258	30580	14410	5928	2774	2633	7513
1958-59	4244	6764	7260	9791	9371	8572	21130	22080	40400	18540	5406	6672	13330
1959-60	<u>11210</u>	8304	6400	4700	8281	6939	21300	17900	29050	12500	4355	2625	11100
1960-61	2240	2743	2276	1917	8170	10640	18610	27830	31660	8207	3098	3973	10080
1961-62	4987	2204	7828	10270	8306	1597	15700	24180	22370	9724	4011	2403	9462
1962-63	3732	4369	9060	9053	4887	2375	14080	19790	19570	12190	3630	2550	8790
1963-64	2827	1557	8501	10700	4132	4739	6489	23530	45510	15740	4693	4346	11060
1964-65	4955	4338	7265	9947	<u>11130</u>	<u>16020</u>	14040	24420	28830	13070	5891	5648	12130
1965-66	5509	4247	10000	9885	3844	3613	8272	22630	25160	11160	4369	6886	9662
1966-67	10440	9588	6951	5935	4449	5519	8866	23340	33440	12290	4515	6435	10990
1967-68	6335	6040	8714	9173	2216	3423	<u>3825</u>	19670	25810	9015	4545	7827	8897
1968-69	7529	5874	7914	7497	9478	7321	21780	22980	17580	9444	8560	9029	11240
1969-70	6388	5115	7129	1550	1604	2561	7552	23760	27930	7105	6593	8123	8806
1970-71	7246	2826	7916	7947	6042	5336	17420	30770	30270	14150	5995	5912	11840
1971-72	5234	8822	9006	7983	4851	12040	14290	29000	34470	11840	4952	5229	12310
1972-73	7519	5512	6376	7076	7290	2653	5599	17280	16590	9028	6762	2197	7831
1973-74	5520	5975	3538	9516	9394	10010	20410	23150	42690	21050	7035	6637	<u>13720</u>
1974-75	7438	9423	6735	4546	3013	3736	4653	18740	36850	18080	6348	5940	10480
1975-76	6452	9290	8229	6583	6236	7551	16200	27730	21640	14930	7405	3326	11310
1976-77	7581	3522	7571	5074	3371	3855	7449	<u>11920</u>	11170	7148	7389	4585	6748
1977-78	7168	6372	2297	5041	4416	4497	7407	18690	23930	12550	5705	4953	8597
1978-79	4546	9595	9155	5714	1433	3923	5349	27310	20750	9947	8205	3962	9213
1979-80	6779	8414	4110	1639	1328	1263	9204	23310	18790	7352	4754	7023	7833
1980-81	4506	6485	9693	5995	5028	6299	11860	25330	29710	13030	4425	5360	10660
1981-82	8114	4688	4355	5340	4750	6420	11320	22660	30060	17540	5285	2898	10310
1982-83	3244	3969	4418	5500	6553	6149	12420	20730	17810	14110	5608	8138	9057
1983-84	6924	4104	6941	6335	7874	5629	7561	15080	20060	8053	6388	7077	8493
1984-85	5586	4091	6322	7752	7270	5411	8506	23350	19580	9820	9972	10690	9874
1985-86	8830	6773	7822	6727	4119	6546	11110	19470	20660	6725	5263	8519	9398
1986-87	6808	4100	5077	5164	3610	3622	10440	20550	<u>9605</u>	5347	7096	11150	7735
1987-88	7487	3776	3510	3866	9643	11390	9508	15370	11950	5737	3491	3625	7437
1988-89	3910	3727	3818	3890	6041	5537	9970	20150	20430	10630	<u>10610</u>	<u>12300</u>	9252
MEAN	4874	4823	5251	4866	4334	4542	11930	27100	26420	11300	4873	4395	9564
MEDIAN	4903	4369	5077	4546	3610	3613	10570	25330	25810	10300	4553	3268	9462

CFM3H

USGS # 12363000

COLUMBIA FALLS

River: FLATHEAD

Drainage Area:

4464 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

143

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										18870	4979	2797	
1928-29	3879	2882	2014	1719	1526	1927	5449	28980	28950	7966	3148	1969	7559
1929-30	1600	1293	1317	1338	1671	1824	20140	24300	20580	6781	2835	2108	7134
1930-31	2580	2534	1802	1714	2094	2667	8043	30350	15670	4687	2301	2249	6418
1931-32	1920	2271	1815	1340	2987	5506	14340	42350	37560	11350	4174	2680	10690
1932-33	2642	5225	4615	2298	1876	2102	10320	30460	61910	16830	4892	3209	12200
1933-34	8117	<u>11050</u>	<u>9035</u>	7264	5103	6698	<u>32210</u>	43350	20050	6754	2924	1909	12900
1934-35	2254	6722	2892	3484	3355	2816	7227	34030	34910	11990	3845	2210	9662
1935-36	1657	1446	<u>1113</u>	1132	1171	1629	16680	43130	19410	5180	2510	1790	8089
1936-37	<u>1431</u>	<u>1182</u>	1178	<u>928</u>	<u>905</u>	<u>1083</u>	5028	30580	27370	8145	3055	1829	6920
1937-38	2012	3027	2332	2501	2180	2481	15190	35100	32610	9629	3453	2273	9416
1938-39	2200	1946	2254	2141	1303	3215	18520	38960	19990	8536	3016	1968	8710
1939-40	1582	1587	2128	1544	1585	3041	10570	27930	16230	4434	2103	1981	6236
1940-41	2017	1675	1559	1449	1358	2202	8735	<u>18070</u>	<u>11260</u>	<u>4178</u>	<u>1980</u>	3174	<u>4818</u>
1941-42	4852	3620	7336	3308	2156	1788	13040	25540	25210	12460	4046	2711	8868
1942-43	2063	2960	3145	2355	2525	2634	24530	27630	38480	20290	5049	2614	11190
1943-44	2298	1892	1655	1291	1143	1260	5748	21080	14390	4855	2589	2248	5048
1944-45	2254	1937	1605	1909	1787	1853	3959	30000	28570	9980	3147	2507	7487
1945-46	2746	5007	3026	2383	2019	3326	17540	39560	30060	10960	3883	2633	10290
1946-47	4125	4086	3800	2658	3418	4186	17030	46490	31100	11350	4562	3591	11400
1947-48	8546	4803	2852	2460	1893	1837	10370	45840	39350	9445	5347	2519	11290
1948-49	1837	1573	1370	1269	1309	1682	13140	40020	22400	6758	3245	2365	8117
1949-50	2398	4375	4271	2563	2379	3128	8375	32770	51670	25140	6885	3210	12290
1950-51	6376	6781	6938	4601	5955	3276	13260	43850	31180	19860	5855	5457	12820
1951-52	9197	5027	3596	2460	2129	1900	19550	37240	22710	9075	3813	2300	9932
1952-53	1587	1330	1411	2941	3187	2336	8814	29680	45270	16770	4861	2523	10070
1953-54	1659	2178	2147	1814	2174	2441	6800	<u>48360</u>	42760	<u>26630</u>	6881	4783	12450
1954-55	4705	4553	3426	2534	2093	1911	4041	23210	42710	17230	4714	2527	9488
1955-56	5928	5874	4313	3335	2352	2703	13750	44340	40570	12370	4529	2786	11910
1956-57	3456	2758	2929	2185	1932	2310	7246	48050	26480	7295	3052	1972	9193
1957-58	1897	1944	1701	1505	1777	2289	7963	43150	20730	5939	2766	2653	7904
1958-59	4267	5804	5376	4936	3393	3062	14700	31230	58720	18790	5384	6680	13360
1959-60	<u>11220</u>	8190	5367	3064	2739	4965	15670	24280	38140	12520	4348	2621	11080
1960-61	2240	2743	2021	1795	3825	3945	9357	38850	40870	8203	3136	2658	9978
1961-62	4050	2736	2219	2071	2595	2078	17720	32940	32080	9792	4003	2392	9568
1962-63	3721	4400	4425	2862	4838	3516	8911	26510	27830	12190	3641	2479	8786
1963-64	1954	1946	1817	1834	1480	1527	4874	32380	60330	15880	4719	4370	11070
1964-65	4963	3740	4282	3255	3301	2885	13980	35480	46360	15550	5891	5483	12110
1965-66	4065	3240	2803	2427	1885	2667	12060	32500	31700	11110	3733	2594	9258
1966-67	2368	2770	3296	2901	3046	2338	5201	35410	51980	16530	4317	2268	11050
1967-68	2650	4184	2454	2287	3327	5329	5317	28020	34070	11240	4674	7410	9241
1968-69	7487	5850	3396	3507	2374	2350	19140	34420	26650	11740	3515	2436	10270
1969-70	2940	2219	1758	1778	1824	1838	3512	34740	42460	9642	3538	2570	9087
1970-71	2403	2365	2479	3221	<u>8407</u>	3203	11830	46580	41630	16700	5684	2706	12270
1971-72	2316	2378	1925	1921	1948	8662	10260	40390	52270	17240	6502	3363	12440
1972-73	3130	2502	2471	2518	1885	2125	6012	26060	25270	7348	2932	2201	7058
1973-74	2117	5820	4371	<u>7943</u>	4064	3856	15190	31510	<u>64450</u>	22950	6387	3407	<u>14340</u>
1974-75	2063	2276	1885	1758	1603	1801	<u>2920</u>	25590	55140	22140	6135	4429	10660
1975-76	4033	5788	7649	3584	2789	2271	12580	42520	28920	16080	<u>7394</u>	3456	11460
1976-77	2104	1825	1681	1464	1531	1562	8819	19560	13550	4440	3037	3279	5251
1977-78	3188	2776	3371	2059	1724	3928	13140	29000	35530	15430	5568	4981	10080
1978-79	2783	2676	1958	1440	1815	3094	7025	37730	29130	8396	3198	2129	8483
1979-80	1673	1451	1990	1392	1397	1741	15190	36280	22150	7638	3657	4282	8247
1980-81	2996	4401	7039	5930	3935	4316	12480	35630	31780	13120	4441	2529	10750
1981-82	2075	2020	2015	1728	3762	3678	6717	32290	45530	18300	5338	2799	10540
1982-83	2920	2733	2426	2866	2393	3998	9172	26800	26890	14610	5071	3137	8615
1983-84	2762	4594	2354	4626	2955	3124	10110	21150	31050	10990	4023	3687	8439
1984-85	3420	3368	2399	1950	1875	1961	13060	38410	26820	6768	3820	<u>7667</u>	9316
1985-86	8323	9711	3301	2696	3857	<u>10340</u>	14800	27540	24010	7015	3213	3034	9836
1986-87	3191	3899	2681	1733	1728	4240	16630	29610	12210	5606	3522	2240	7303
1987-88	1561	1311	1439	1314	1180	2284	12510	25320	17760	4624	2024	<u>1553</u>	6076
1988-89	3612	4121	2706	2245	1834	2790	16680	32410	32440	10290	4853	4508	9891
MEAN	3417	3564	3032	2550	2502	3005	11690	33530	32880	11850	4163	3079	9613
MEDIAN	2650	2776	2454	2287	2094	2634	11830	32500	31100	11050	3943	2627	9662

CFM3A

USGS # 12371800

KERR (FLATHEAD LAKE)

River: FLATHEAD

Drainage Area:

7086 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

72

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										31730	<u>12460</u>	6090	
1928-29	4948	4558	3626	3089	2731	2828	3651	20410	39580	16770	6516	3630	9378
1929-30	2633	2208	2183	1865	2146	2467	10180	25930	27060	13110	5856	3533	8287
1930-31	3254	3395	3107	2539	2663	2920	5580	24810	24680	10430	4726	3131	7626
1931-32	2746	2528	2561	2476	2257	4616	11240	35310	42940	23370	8489	4656	11950
1932-33	3382	4214	5984	4571	3669	3194	4935	24820	<u>63140</u>	<u>34330</u>	10930	5503	14080
1933-34	5223	<u>13420</u>	10940	12050	7920	7316	<u>22310</u>	<u>49210</u>	35020	14310	6221	3600	15660
1934-35	2792	<u>5277</u>	5174	4043	4566	4101	5279	25080	45260	22520	8555	4329	11430
1935-36	2886	2362	2155	2150	1912	2165	7508	40200	33940	11840	5060	3003	9617
1936-37	<u>2277</u>	<u>1897</u>	<u>1680</u>	<u>1713</u>	<u>1738</u>	<u>1828</u>	<u>2710</u>	20740	33390	17260	6556	3528	7968
1937-38	2708	2889	3062	3132	2981	2931	7547	27220	41720	11430	3350	6674	9637
1938-39	4480	2649	2861	4860	5460	3927	10380	38780	27300	9825	4810	5051	10060
1939-40	4384	3342	2988	3517	3272	2822	8708	23040	16340	<u>4763</u>	4005	4015	6771
1940-41	4006	3863	3466	5538	5377	4332	5859	<u>5961</u>	11290	<u>5064</u>	3975	3778	<u>5197</u>
1941-42	4584	6510	11600	14270	5937	3673	7888	22750	25030	14710	6727	4729	10740
1942-43	4264	4337	6136	9508	8581	4255	17410	29140	42800	23400	6263	6667	13560
1943-44	6827	5404	4925	4597	3654	4159	4003	9630	14780	4976	3903	4084	5912
1944-45	4382	4375	5173	5580	5853	5937	4540	16740	32550	11490	3970	4028	8713
1945-46	4327	4676	7033	8174	9181	7778	12300	36950	34820	12760	6071	4389	12380
1946-47	4172	4745	9837	9106	9748	7685	12410	45570	36330	12730	5873	5018	13620
1947-48	10930	9270	7713	9477	8391	5277	6976	34530	58170	9463	6823	3968	14220
1948-49	3559	3946	6016	11200	5252	4758	8488	34920	24310	8164	4364	<u>2689</u>	9841
1949-50	5253	6368	7840	9622	9166	6104	7805	24970	54250	33960	9277	4130	14910
1950-51	7132	8556	11480	14840	12010	8962	11300	41820	36710	24510	6862	6076	15890
1951-52	9503	8891	7993	9115	11820	5973	10580	31780	19850	10910	4205	5029	11300
1952-53	6380	6789	7019	6704	5865	6094	5219	13590	31060	14540	4542	7068	9569
1953-54	7302	7579	7648	6123	9655	8688	9206	29850	33820	29880	8335	5792	13680
1954-55	6818	9215	12350	12710	12950	8784	6906	10430	23900	20890	5694	7809	11520
1955-56	7654	8794	11280	11150	12090	11900	17030	27170	37210	15300	4407	7813	14290
1956-57	8682	11030	<u>13640</u>	14030	9234	7867	5089	21480	21340	8381	3822	6038	10900
1957-58	8939	12920	11980	7044	5573	7467	5534	19940	18600	7820	<u>2336</u>	5630	9500
1958-59	5245	5621	13360	<u>16500</u>	16500	10260	20570	28410	43140	22750	6322	8216	<u>16370</u>
1959-60	<u>13980</u>	11900	11130	9785	11410	14600	22110	20600	29140	16790	5336	4247	14240
1960-61	4824	5053	7265	6845	8121	12680	17300	29800	38670	10170	4014	4807	12450
1961-62	7038	5686	10110	13610	<u>17320</u>	6295	10720	26860	20890	11830	4162	3122	11440
1962-63	4795	6483	11500	13600	11460	9858	12650	10770	22590	14530	4062	3192	10440
1963-64	5655	4540	8458	10560	12810	13080	7456	15270	49790	20160	5479	5907	13230
1964-65	6489	9121	10510	11630	16910	<u>21260</u>	15460	26970	33050	16730	7670	7148	15220
1965-66	7927	8134	12000	12070	14210	<u>9406</u>	8413	15230	28990	14420	4465	8800	11970
1966-67	13020	11580	8298	10610	12000	12180	9670	18550	36840	14060	4813	6863	13180
1967-68	7844	7709	12920	13350	6956	8578	8224	11280	25080	11510	5834	9839	10760
1968-69	9775	10630	11700	12710	13880	13020	17610	25380	17450	12480	9499	10360	13700
1969-70	9932	7492	9084	7102	5531	6947	8491	17960	27970	10040	7446	9206	10610
1970-71	10060	6397	10780	11600	12560	9842	13680	30670	33260	17060	7434	6809	14180
1971-72	8784	9827	12520	12640	10020	12890	18260	26590	37680	14420	6046	5677	14600
1972-73	8150	9589	10380	10690	11990	9332	6808	8412	12260	10060	5997	3008	8875
1973-74	6695	7459	8701	11080	13990	16090	19300	26480	44130	25070	8618	6324	16150
1974-75	7754	10770	11120	11940	9013	7320	6352	11980	36330	17920	8102	7331	12150
1975-76	9964	10380	11930	11410	13120	11250	14200	27690	20790	17060	8817	6109	13570
1976-77	6788	9498	10440	11730	7704	6102	4317	7805	<u>6403</u>	6751	7165	5861	7557
1977-78	9388	10350	7377	10470	9959	5929	9450	13400	23980	16310	6734	7270	10870
1978-79	9186	11910	12420	11920	7249	4573	6584	20180	20850	11600	7623	6391	10900
1979-80	8065	10930	10220	7717	5602	2326	5131	17540	21120	9882	5026	7533	9256
1980-81	8768	8539	10710	10960	12300	9479	9196	22100	34320	16100	5283	6006	12800
1981-82	10400	9396	7670	10620	8634	7669	10040	21620	29410	20420	6363	5372	12320
1982-83	5388	6669	7312	11310	11250	7865	10480	15310	17340	17430	6556	8959	10480
1983-84	9974	10030	9574	10890	10010	8683	7925	7204	19800	10040	6136	7911	9830
1984-85	9605	9025	10590	10810	9810	7176	7580	15740	20350	9657	9807	11730	10990
1985-86	10630	10580	10070	11310	10940	9226	11540	12680	21450	7703	4493	8654	10750
1986-87	9178	9858	9557	9699	7685	5306	7439	13470	8100	6197	7389	10480	8702
1987-88	10130	8965	9154	5559	9072	12130	11250	8263	9412	5985	3446	4492	8146
1988-89	7315	9232	8909	5593	7212	7941	8426	15020	18470	12080	10920	<u>12000</u>	10270
MEAN	6872	7367	8446	9035	8638	7543	9921	22660	29450	14800	6226	5986	11380
MEDIAN	6827	7579	9084	10470	9013	7320	8491	22100	28990	13590	6058	5827	10990

KER3H

USGS # 12371800

KERR (FLATHEAD LAKE)

River: FLATHEAD

Drainage Area:

7086 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

72

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-7545	-5229	-2147	
1928-29	210	-592	-744	-686	-189	417	2770	12611	-3418	-7448	-3104	-1519	-135
1929-30	-568	-606	530	-511	503	246	11324	1162	-2481	-5312	-2979	-631	32
1930-31	134	20	-762	-170	335	840	3295	9180	-5458	-4978	-2242	-395	-13
1931-32	-570	196	-19	-360	812	2181	6170	9750	-1625	-10213	-3569	-1882	61
1932-33	-248	2099	-327	-1036	-994	-19	6467	9377	7331	-14886	-4949	-1552	76
1933-34	3615	-20	1308	-2143	-1415	1453	14228	867	-9765	-5689	-2927	-1342	-152
1934-35	401	2475	-1250	-76	-127	-153	3866	13331	-3620	-8289	-4111	-1899	45
1935-36	-895	-293	-227	-208	-40	435	11438	8171	-9480	-6010	-2534	-1378	-87
1936-37	-511	-274	-38	-133	21	227	3307	12526	-1936	-8045	-3163	-1440	47
1937-38	-210	690	0	-229	-317	516	8454	9941	-4367	-920	160	-4065	820
1938-39	-2120	-444	-235	-2047	-3443	19	8716	6634	-3483	-60	-1885	-3048	-95
1939-40	-2780	-1446	-233	-1718	-904	1500	3916	7859	2849	424	-1997	-1781	477
1940-41	-1732	-1615	-1318	-3429	-3310	-1309	3877	14148	2012	-697	-2020	-521	364
1941-42	948	-1834	-2978	-10254	-2906	-1184	7504	6981	6163	389	-2084	-1625	-79
1942-43	-1694	-561	-1820	-6052	-5463	-1247	12355	3166	2897	1839	-307	-3770	-41
1943-44	-3692	-2558	-2634	-2681	-1951	-2213	2849	13994	2711	225	-1516	-1898	61
1944-45	-1694	-1845	-2863	-2930	-3401	-3269	517	16363	1813	574	-861	-1558	103
1945-46	-928	1104	-2662	-4735	-5914	-3379	8338	8493	1228	697	-1721	-1192	-34
1946-47	908	317	-4320	-5264	-5444	-1689	7131	8619	1603	574	61	-487	192
1947-48	-881	-2800	-3555	-5468	-5023	-1982	6356	18894	-9194	3393	287	-868	-26
1948-49	-1004	-1334	-3763	-9084	-2617	-1462	7695	10436	2180	-287	-799	-106	-14
1949-50	-2534	-979	-2872	-6004	-5475	-732	3703	11937	5732	-1783	-184	-445	54
1950-51	451	-318	-2426	-8215	-3631	-4200	5697	11254	1271	164	-41	127	23
1951-52	-20	-1313	-3133	-5197	-7852	-2566	10755	6214	2988	61	-164	-2277	-197
1952-53	-4369	-3635	-1318	-1869	-2405	-3044	2301	10335	5776	246	61	-4718	-187
1953-54	-4442	-1634	-3183	-841	-736	-3585	4937	10627	3149	615	123	-381	384
1954-55	-1393	-3695	-3006	-2829	-5770	-1282	-580	7645	11062	-307	-430	-5047	-436
1955-56	-826	-1695	-4388	-1806	-1170	215	3486	9473	1820	-430	820	-3660	162
1956-57	-2339	-3158	-1918	-2103	-2645	-4185	1453	16345	1821	-41	-697	572	283
1957-58	-2248	-1750	-4413	-3830	-2864	-4711	2332	16611	593	-451	389	-2905	-247
1958-59	-383	-2390	-3947	-4616	-4921	-606	4891	1647	7538	717	225	0	249
1959-60	-164	-953	-2937	-3436	-1998	-5543	4197	3230	8044	-676	307	-911	-89
1960-61	-1929	-1375	-4189	-4103	1262	-570	3918	5626	2466	-328	-369	-551	-35
1961-62	-1378	-2271	-1728	-2708	-7086	-3386	8746	3990	7005	-266	246	-233	101
1962-63	0	-953	-1605	-3446	-4907	-5973	3491	11975	1630	-205	-82	85	30
1963-64	-2472	-2480	726	948	-7467	-7126	803	12770	3803	-102	266	-148	-5
1964-65	-943	-3746	-1752	-180	-4336	-3007	2924	5279	5364	143	20	-64	-2
1965-66	-1189	-2617	-1069	-1129	-9002	-4799	2820	11673	4637	-41	225	-1292	-87
1966-67	-1849	-625	161	-3322	-5858	-5160	1425	9492	5876	840	-205	-275	73
1967-68	-820	-847	-3228	-3265	-3212	-3218	-3059	11500	6369	-246	225	-127	17
1968-69	-717	-3146	-2458	-3546	-3137	-3969	8403	3304	5431	-225	-676	-614	-117
1969-70	-2933	-1771	-1280	-4376	-2803	-3001	441	10702	6664	-553	-369	-953	-9
1970-71	-2044	-2438	-2141	-2299	-4025	-3158	5881	7215	4070	266	-512	-868	10
1971-72	-2913	-313	-2692	-3885	-3274	2001	-974	7774	5194	492	-143	0	115
1972-73	-41	-3157	-3184	-2851	-3840	-5616	159	11042	7339	-512	430	-847	-70
1973-74	-1309	-438	-3928	160	-3156	-4866	4821	1971	7461	-225	-820	678	38
1974-75	123	-974	-3783	-6410	-4839	-2637	-398	10099	6327	2736	-738	-551	-61
1975-76	-2151	63	-2077	-3461	-5622	-2576	5035	6140	5086	553	-41	-2052	-85
1976-77	1063	-5389	-2395	-5788	-3493	-1465	4431	7035	6623	799	82	-508	99
1977-78	-1851	-3417	-3349	-4447	-4507	232	2351	10367	5136	-205	307	-1228	-23
1978-79	-4187	-2113	-2879	-4867	-4549	982	1320	12830	4240	-492	738	-2118	-59
1979-80	-1171	-2459	-5356	-5370	-3349	173	5826	11659	1990	-553	205	-148	127
1980-81	-3877	-1875	-40	-3626	-5892	-1831	4645	9489	3118	-287	-123	-699	-50
1981-82	-2314	-4074	-2744	-4615	-2675	194	3246	6139	6754	1004	-225	-1945	-96
1982-83	-1553	-2251	-2300	-5050	-3979	-155	3489	8751	5140	-205	-266	-911	78
1983-84	-2835	-5073	-2094	-3767	-1523	-1515	1746	10831	5260	-20	348	-847	49
1984-85	-3651	-4269	-4085	-2958	-2153	-1082	3289	11844	3448	-82	82	-191	28
1985-86	-1230	-3654	-1948	-3751	-5602	-117	2344	10140	3341	-430	553	-233	-9
1986-87	-1961	-5012	-3945	-4216	-3693	96	5106	10584	3009	184	-370	-105	-5
1987-88	-3150	-5100	-5379	-1447	857	-352	-61	10019	5095	0	-594	-953	-92
1988-89	-3354	-5263	-4615	-1368	-688	-1454	4468	9231	4997	-635	82	233	132
MEAN	-1381	-1690	-2243	-3195	-3177	-1696	4432	9300	2764	-1173	-787	-1165	28

KER3S

USGS # 12371800

KERR (FLATHEAD LAKE)

River: FLATHEAD

Drainage Area:

7086 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile:

72

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-7545	-5229	-2147	
1928-29	210	-592	-744	-686	-189	417	2770	12611	-3418	-7448	-3104	-1519	-135
1929-30	-568	-606	530	-511	503	246	11324	1162	-2481	-5312	-2979	-631	32
1930-31	134	20	-762	-170	335	840	3295	9180	-5458	-4978	-2242	-395	-13
1931-32	-570	196	-19	-360	812	2181	6170	9750	-1625	-10213	-3569	-1882	61
1932-33	-248	2099	-327	-1036	-994	-19	6467	9377	7331	-14886	-4949	-1552	76
1933-34	3615	-20	1308	-2143	-1415	1453	14226	867	-9765	-5689	-2927	-1342	-152
1934-35	401	2475	-1250	-76	-127	-153	3866	13331	-3620	-8289	-4111	-1899	45
1935-36	-895	-293	-227	-208	-40	435	11438	8171	-9480	-6010	-2534	-1378	-87
1936-37	-511	-274	-38	-133	21	227	3307	12526	-1936	-8045	-3163	-1440	47
1937-38	-210	690	0	-229	-317	516	8454	9941	-4367	-920	160	-4065	820
1938-39	-2120	-444	-235	-2047	-3443	19	8716	6634	-3483	-60	-1885	-3048	-95
1939-40	-2780	-1446	-233	-1718	-904	1500	3916	7859	2849	424	-1997	-1781	477
1940-41	-1732	-1615	-1318	-3429	-3310	-1309	3877	14148	2012	-697	-2020	-521	364
1941-42	948	-1834	-2978	-10254	-2906	-1184	7504	6981	6163	389	-2084	-1625	-79
1942-43	-1694	-561	-1820	-6052	-5463	-1247	12355	3166	2897	1839	-307	-3770	-41
1943-44	-3692	-2558	-2634	-2681	-1951	-2213	2849	13994	2711	225	-1516	-1898	61
1944-45	-1694	-1845	-2863	-2930	-3401	-3269	517	16363	1813	574	-861	-1558	103
1945-46	-928	1104	-2662	-4735	-5914	-3379	8338	8493	1228	697	-1721	-1192	-34
1946-47	908	317	-4320	-5264	-5444	-1689	7131	8619	1603	574	61	-487	192
1947-48	-881	-2800	-3555	-5468	-5023	-1982	6356	18894	-9194	3393	287	-868	-26
1948-49	-1004	-1334	-3763	-9084	-2617	-1462	7695	10436	2180	-287	-799	-106	-14
1949-50	-2534	-979	-2872	-6004	-5475	-732	3703	11937	5732	-1783	-184	-445	54
1950-51	451	-318	-2426	-8215	-3631	-4200	5697	11254	1271	164	-41	491	53
1951-52	1613	-2280	-3249	-5169	-7735	-2572	13048	13557	9205	219	-80	-2328	1199
1952-53	-4343	-5160	-5113	-2505	-1783	-2657	5298	20468	22034	5005	820	-4471	2310
1953-54	-5285	-4633	-4721	-3300	-6229	-4802	-316	25318	15931	2718	104	-133	1266
1954-55	-1591	-3561	-8376	-9417	-9597	-6715	-1371	16178	24716	-509	-514	-5039	-454
1955-56	-1088	-1821	-5573	-6717	-8710	-8101	1107	24235	11489	47	863	-4465	137
1956-57	-4747	-7437	-9548	-11130	-5894	-4051	4137	32461	9742	138	-796	-4372	-84
1957-58	-6394	-10068	-9335	-4311	-2387	-4263	5037	29183	6911	-439	382	-2885	144
1958-59	-360	1430	-5831	-9470	-10899	-6116	-1535	10790	23861	965	203	8	283
1959-60	-149	-1067	-3969	-5073	-7540	-7517	-1433	9614	17129	-657	300	-914	-104
1960-61	-1929	-1375	-4445	-4225	-3084	-7264	-5334	16653	11670	-332	-331	-1865	-141
1961-62	-2316	-1740	-7337	-10903	-12797	-2905	10766	12745	16710	-198	238	-245	207
1962-63	-11	-921	-6240	-9637	-4956	-4832	-1675	18691	9899	-205	-71	14	25
1963-64	-3344	-2090	-5957	-7919	-10119	-10338	-812	21617	18624	38	293	-125	2
1964-65	-935	-4345	-4735	-6873	-12165	-16146	2867	16337	22889	2628	20	-229	-16
1965-66	-2632	-3623	-8266	-8587	-10961	-5744	6605	21548	11177	-87	-411	-5584	-491
1966-67	-9916	-7443	-3494	-6356	-7262	-8342	-2240	21561	24418	5071	-403	-4442	129
1967-68	-4504	-2703	-9488	-10151	-2100	-1311	-1568	19846	14634	1979	355	-545	361
1968-69	-759	-3170	-6977	-7536	-10241	-8940	5765	14744	14503	2076	-5721	-7208	-1086
1969-70	-6381	-4667	-6651	-4148	-2583	-3725	-3599	21677	21190	1984	-3424	-6505	273
1970-71	-6888	-2899	-7578	-7025	-1660	-5292	287	23028	15433	2812	-844	-4074	440
1971-72	-5831	-6757	-9773	-9948	-6177	-1382	-5004	19163	22995	5893	1407	-1866	239
1972-73	-4430	-6167	-7089	-7409	-9245	-6145	572	19819	16021	-2193	-3399	-843	-843
1973-74	-4712	-592	-3096	-1413	-8486	-10816	-404	10321	29225	1672	-1467	-2552	652
1974-75	-5252	-8121	-8633	-9197	-6249	-4572	-2130	16945	24619	6794	-951	-2062	119
1975-76	-4570	-3440	-2657	-6459	-9069	-7856	1420	20935	12361	1696	-52	-1922	59
1976-77	-4414	-7086	-8285	-9398	-5334	-3759	5801	14676	9005	-1909	-4270	-1814	-1398
1977-78	-5831	-7013	-2275	-7428	-7198	-337	8080	20672	16734	2674	170	-1201	1462
1978-79	-5950	-9033	-10076	-9141	-4167	154	2996	23254	12623	-2043	-4269	-3950	-788
1979-80	-6277	-9422	-7476	-5617	-3280	651	11811	24637	5350	-268	-892	-2889	541
1980-81	-5387	-3958	-2695	-3691	-6985	-3813	5260	19782	5189	-195	-108	-3530	38
1981-82	-8354	-6742	-5084	-8227	-3664	-2548	-1361	15765	22223	1762	-172	-2044	129
1982-83	-1877	-3487	-4293	-7684	-8138	-2307	244	14825	14224	298	-803	-5912	-364
1983-84	-6997	-4582	-6682	-5476	-6442	-4020	4298	16900	16248	2913	-2016	-4237	-5
1984-85	-5817	-4992	-8008	-8760	-7548	-4531	7841	26909	10690	-3134	-6070	-3215	-530
1985-86	-1737	-716	-6469	-7783	-5884	3681	6034	18210	6693	-141	-1496	-5718	430
1986-87	-5578	-5213	-6341	-7648	-5575	715	11295	19648	5615	443	-3944	-9014	-437
1987-88	-9075	-7564	-7450	-3999	-7606	-9458	2941	19970	10902	-1113	-2062	-3025	-1453
1988-89	-3652	-4869	-5727	-3012	-4895	-4201	11180	21492	17010	-975	-5676	-7559	771
MEAN	-2838	-2950	-4462	-5511	-5008	-3232	4195	15740	9227	-620	-1497	-2481	78

KER3SS

USGS # 12371800

KERR (FLATHEAD LAKE)

River: FLATHEAD

Drainage Area:

7086 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

72

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										24180	7233	3943	
1928-29	5158	3966	2882	2402	2543	3245	6420	33030	36180	9321	3413	2110	9243
1929-30	2085	1602	2713	<u>1354</u>	2649	2713	21500	27090	24580	7798	2877	2902	8319
1930-31	3387	3414	2345	2388	2998	3759	8875	33990	19230	5453	2484	2736	7613
1931-32	2175	2724	2542	2116	3069	6797	17410	45060	41310	13160	4920	2774	12010
1932-33	3134	6313	5656	3535	2676	3175	11400	34200	70470	19440	5978	3951	14160
1933-34	8838	<u>13400</u>	<u>12250</u>	<u>9908</u>	6505	8768	<u>36530</u>	50070	25250	8622	3294	2258	15510
1934-35	3193	7752	3924	3967	4439	3948	9144	38410	41640	14230	4445	2430	11480
1935-36	1991	2069	1928	1941	1872	2601	18950	48370	24460	5825	2527	1625	9530
1936-37	1766	1623	<u>1642</u>	1581	1758	2055	6017	33270	31460	9211	3394	2088	8014
1937-38	2498	3579	3082	2903	2664	3446	16000	37160	37360	10510	3510	2609	10460
1938-39	2360	2204	2627	2813	2017	3946	19100	45420	23820	9766	2925	2004	9961
1939-40	1604	1896	2755	1799	2368	4322	12620	30900	19190	5186	2009	2234	7248
1940-41	2275	2248	2148	2109	2067	3022	9735	<u>20110</u>	<u>13300</u>	<u>4367</u>	1955	3257	<u>5561</u>
1941-42	5532	4677	8620	4013	3031	2489	15390	29730	31200	15100	4643	3104	10680
1942-43	2570	3776	4316	3456	3118	3007	29760	32300	45700	25240	5955	2896	13520
1943-44	3135	2846	2292	1916	1703	<u>1946</u>	6852	23620	17490	5201	2387	2186	5973
1944-45	2688	2530	2310	2650	2452	2668	5057	33110	34360	12060	3109	2470	8815
1945-46	3400	5780	4371	3440	3267	4400	20640	45440	36050	13460	4350	3197	12350
1946-47	5079	5062	5517	3842	4304	5996	19540	54190	37930	13300	5934	4531	13810
1947-48	10050	6470	4158	4009	3368	3295	13330	53420	48970	12860	7110	3100	14200
1948-49	2555	2612	2253	2113	2635	3296	16180	45350	26490	7877	3565	2583	9827
1949-50	2718	5389	4968	3618	3691	5372	11510	36900	59980	32180	<u>9092</u>	3686	14960
1950-51	7583	8238	9058	8623	8376	4762	17000	53070	37980	24680	6821	6587	15940
1951-52	11120	6611	4744	3946	4090	3401	23630	45340	29060	11130	4126	2701	12500
1952-53	2037	1609	1907	4199	4082	3438	10520	34060	53090	19540	5362	2597	11880
1953-54	2017	2947	2927	2823	3426	3886	8890	<u>55170</u>	49750	<u>32590</u>	8438	5659	14950
1954-55	5226	5655	3975	3297	3351	2069	5535	26610	48620	20380	5180	2770	11070
1955-56	6565	6973	5710	4436	3383	3798	18130	51400	48700	15340	5270	3348	14430
1956-57	3935	3595	4094	2896	3339	3816	9225	53940	31080	8519	3026	1666	10810
1957-58	2546	2852	2641	2733	3186	3204	10570	49120	25510	7380	2718	2745	9644
1958-59	4885	7051	7528	7033	5603	4140	19030	39200	67000	23710	6524	8224	16660
1959-60	<u>13830</u>	10830	7160	4712	3869	7086	20680	30210	46270	16130	5636	3333	14130
1960-61	2894	3678	2821	2620	5037	5411	11970	46460	50340	9837	3683	2942	12310
1961-62	4722	3946	2774	2707	4523	3391	21480	39600	37600	11640	4401	2877	11640
1962-63	4784	5562	5265	3965	6502	5026	10970	29480	32490	14320	3991	3206	10470
1963-64	2311	2450	2501	2642	2695	2740	6644	36890	68410	20190	5772	5782	13230
1964-65	5554	4776	5780	4756	4746	5118	18320	43300	55940	19350	7690	6920	15210
1965-66	5294	4511	3730	3484	3253	3661	15020	36780	40170	14340	4054	3216	11480
1966-67	3108	4136	4804	4255	4740	3841	7430	40120	61250	19130	4410	2420	13310
1967-68	3340	5006	3432	3194	4856	7267	6656	31130	39720	13490	6190	<u>9295</u>	11120
1968-69	9016	7465	4727	5174	3641	4082	23370	40120	31950	14560	3778	3155	12620
1969-70	3550	2825	2433	2954	2948	3222	4892	39640	49160	12020	4022	2701	10880
1970-71	3175	3499	3201	4575	<u>10900</u>	4550	13970	53700	48690	19870	6590	2735	14620
1971-72	2953	3070	2748	2697	3847	11500	13260	45760	60680	20310	7453	3811	14840
1972-73	3720	3422	3296	3286	2741	3187	7380	28230	28280	7864	2598	2165	8033
1973-74	1983	6867	5605	9668	5503	5274	18900	36800	<u>73360</u>	26750	7151	3772	<u>16800</u>
1974-75	2502	2651	2490	2744	2764	2748	<u>4222</u>	28930	60950	24710	7151	5268	12270
1975-76	5393	6945	9272	4951	4048	3396	15620	48630	33150	18750	8765	4187	13630
1976-77	2374	2411	2153	2332	2370	2343	10120	22480	15410	4842	2895	4047	6159
1977-78	3557	3335	5102	3037	2760	5592	17530	34070	40710	18980	6904	6070	12330
1978-79	3235	2877	2343	2782	3082	4727	9579	43430	33480	9555	3353	2441	10110
1979-80	1788	1508	2741	2100	2321	2977	16940	42180	26470	9615	4134	4644	9797
1980-81	3381	4581	8013	7270	5315	5666	14460	41880	39510	15910	5176	2476	12840
1981-82	2045	2654	2585	2394	4970	5122	8683	37380	51640	22180	6191	3328	12450
1982-83	3511	3183	3019	3624	3110	5559	10730	30130	31570	17730	5752	3047	10120
1983-84	2977	5453	2892	5411	3566	4663	12220	24100	36040	12950	4120	3674	9825
1984-85	3787	4033	2585	2054	2262	2645	15420	42640	31040	6524	3737	8519	10460
1985-86	8894	9868	3598	3530	5079	<u>12910</u>	17570	30890	28150	7562	2996	2936	11180
1986-87	3600	4645	3216	2051	2110	6021	18730	33110	13720	6641	3445	<u>1465</u>	8265
1987-88	<u>1052</u>	<u>1401</u>	1704	1560	<u>1466</u>	2671	14190	28230	20310	4873	<u>1385</u>	1467	6693
1988-89	3663	4363	3182	2580	2317	3739	19610	36510	35480	11100	5240	4446	11040
MEAN	4034	4417	3984	3524	3629	4310	14120	38390	38670	14180	4730	3505	11460
MEDIAN	3235	3776	3182	3037	3253	3798	13970	37160	36160	13230	4375	2994	11480

KER3A

USGS # 12390001

THOMPSON FALLS

River: CLARK FORK

Drainage Area: 20968 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 208

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										45890	<u>19420</u>	11290	
1928-29	9627	8887	7649	5675	5165	6765	8878	36600	59520	24940	9498	6051	15800
1929-30	5523	4994	5394	4491	6300	6026	24130	43110	40540	18610	8683	6563	14550
1930-31	7218	7108	6128	5398	5281	5807	9703	36920	33530	13590	6306	<u>4945</u>	11860
1931-32	<u>4930</u>	4965	5131	4709	5534	8725	20500	62130	66570	32050	12110	7711	19610
1932-33	6255	8412	9000	7646	6259	6684	12050	44750	104100	46440	15280	9631	23070
1933-34	10720	<u>21470</u>	<u>22350</u>	<u>23140</u>	17000	18640	<u>50350</u>	72390	47880	18410	9278	5896	26480
1934-35	6291	8915	8965	7941	8374	8203	12080	43320	64190	30390	11800	6720	18200
1935-36	5521	5058	4386	4239	4400	7221	21310	66190	51350	16940	7920	5911	16730
1936-37	5192	<u>4762</u>	<u>4238</u>	<u>3474</u>	<u>4101</u>	<u>4833</u>	<u>6493</u>	34460	46150	22520	9332	5540	12630
1937-38	5208	5457	6061	5993	5558	6565	17800	50400	68300	23430	6880	9889	17640
1938-39	8138	6302	6324	7946	8168	8596	20280	61430	40010	15220	7208	7499	16470
1939-40	7438	6473	6233	6209	6482	7420	17040	37870	26020	<u>8178</u>	6000	6065	11790
1940-41	7356	6859	6225	7993	7858	7191	9914	<u>14110</u>	20240	9170	6327	7486	<u>9218</u>
1941-42	8875	10950	16510	17740	9210	8064	18150	39300	48080	24040	10310	7900	18300
1942-43	7513	8443	10020	12580	13560	10620	41630	54490	80920	42680	12300	10880	25460
1943-44	10960	9632	8002	7245	6497	7244	8454	20600	30070	12250	7394	6924	11270
1944-45	7415	7559	7331	8712	8723	8857	8763	33810	53740	19600	6866	6797	14850
1945-46	7601	8265	10290	11480	12210	11960	22740	57030	52360	20600	9347	8387	19370
1946-47	10120	11210	17930	14120	15490	15800	26110	<u>83520</u>	63130	22650	10380	9398	25020
1947-48	17280	15300	13010	14850	13270	10350	20590	75920	<u>105400</u>	22180	13940	8732	27540
1948-49	8070	8308	8944	13840	9374	9600	20830	70410	46410	14730	8130	6519	18820
1949-50	9590	11070	12580	12180	13410	12690	18210	46210	95750	<u>53300</u>	16670	9193	25920
1950-51	13250	15950	17200	19590	19630	15310	26340	77300	63630	37550	12850	11430	27550
1951-52	15520	14380	12180	13140	15890	10530	25870	63350	38410	18740	8188	8062	20370
1952-53	9871	10190	10120	10980	10510	10140	11830	29490	67230	26560	9255	10310	18030
1953-54	10850	11080	11350	9116	13660	14310	20210	60520	59990	44960	13610	10480	23400
1954-55	11300	13450	15970	15820	16300	12280	13180	30370	55230	38840	10850	11620	20440
1955-56	12380	13570	18140	16630	17000	20260	41320	70640	69670	26320	9903	12020	27300
1956-57	13110	15120	18000	16440	14070	14220	13530	55970	46690	15390	7739	9217	19990
1957-58	12820	16620	15500	10420	9050	11800	13960	51670	42560	16400	6574	8629	18050
1958-59	9312	11820	20010	22020	21280	16780	36640	54280	81520	35450	11300	13720	27810
1959-60	<u>24500</u>	20830	18680	15110	15840	21340	36700	40120	52640	23370	9790	8194	23910
1960-61	8396	9028	10540	10470	13100	17760	24690	51820	67000	15940	7064	8280	20320
1961-62	11250	9427	13970	16900	22560	10390	26330	52720	48670	21380	8885	7022	20760
1962-63	9820	11750	17200	17460	19770	15980	21430	30310	44390	24160	7788	7077	18900
1963-64	9190	8185	11890	13840	15950	16390	13780	37360	94690	34820	11000	11180	23130
1964-65	11030	13680	16900	17220	22450	26530	33130	58290	72460	30330	13990	14810	27550
1965-66	14130	13370	16550	16230	17640	14390	19590	33090	44670	20960	7624	12180	19180
1966-67	16410	15450	12150	13890	15700	16170	15560	42200	80990	26650	9365	10200	22870
1967-68	12910	13570	17680	18250	13250	16030	15630	28530	52670	21170	10630	16230	19690
1968-69	16700	17030	16480	18640	19690	19590	38340	57650	39410	25440	13830	14740	24810
1969-70	14980	12050	13330	11400	9957	11410	14520	44810	64170	22800	12470	14140	20530
1970-71	15070	10950	15190	17040	<u>22600</u>	15660	25290	68810	68910	29800	12430	11280	26080
1971-72	13030	14330	16400	16960	16070	<u>26850</u>	32220	60500	86920	30320	12540	10830	28060
1972-73	13070	13870	15240	15270	15520	13260	11450	19910	23550	14500	8639	5953	14180
1973-74	9531	12130	12410	20600	19770	22630	35170	53030	90380	41450	14350	10730	<u>28490</u>
1974-75	11740	14860	14650	15560	12580	10880	11010	33620	82990	41900	15970	13560	23280
1975-76	16780	17560	21430	17770	18690	17470	31180	70580	52370	31930	15730	11410	26940
1976-77	11590	13650	14070	15030	11250	9282	9237	16280	<u>14370</u>	9882	9519	8651	11910
1977-78	13080	14410	13550	14730	13990	13400	24250	38290	53950	32580	11710	12720	21390
1978-79	14010	16550	16490	16390	12500	10600	15030	48920	43460	18910	11440	10220	19580
1979-80	11580	15130	14130	11150	9472	6310	14850	47620	52780	21640	9503	12400	18880
1980-81	14080	14220	17880	17630	18330	15440	18280	50390	66510	27870	9390	9723	23310
1981-82	14880	13640	11870	14360	15920	14920	20390	50100	68040	40040	11900	9671	23830
1982-83	10660	11080	11300	15760	15810	13940	17120	31360	36750	29850	11930	13650	18270
1983-84	15020	15160	13420	17270	14600	13750	16460	25420	46910	20920	10600	12940	18510
1984-85	14470	13620	14440	14660	13640	11070	17740	37240	36820	13950	13830	<u>17600</u>	18260
1985-86	16630	16740	15050	15850	18410	22910	27080	32240	43790	14390	7943	13240	20320
1986-87	13960	14400	13490	13220	11360	9793	16420	28800	16130	10120	10200	13830	14320
1987-88	13280	11840	12020	8223	12010	16200	20300	23490	22270	10130	<u>5861</u>	6507	13500
1988-89	10230	12880	12070	8702	10550	13030	22810	37570	38190	18900	15360	16810	18100
MEAN	11270	11880	12810	13070	13090	12900	20740	46390	55340	24910	10530	9954	20200
MEDIAN	11030	12050	13330	14120	13410	12280	19590	44810	52640	22720	10050	9697	19690

TOM3H

USGS #	THOMPSON FALLS										River:	CLARK FORK	Drainage Area:	20968 Sq. Mi.
Monthly mean streamflow, adjusted for storage, in cfs.											River Mile:	208		
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.	
1927-28										38350	14190	9146		
1928-29	9837	8295	6905	4989	4976	7182	11650	49210	56110	17490	6395	4532	15670	
1929-30	4954	4387	5924	3980	6803	6272	35450	44270	38060	13300	5704	5932	14580	
1930-31	7351	7128	5366	5228	5616	6647	13000	46100	28070	8609	4064	4551	11850	
1931-32	4359	5161	5112	4349	6346	10910	26670	71880	64940	21830	8544	5828	19670	
1932-33	6007	10510	8673	6610	5265	6665	18520	54120	111400	31550	10330	8079	23140	
1933-34	14340	<u>21450</u>	<u>23660</u>	<u>20990</u>	15580	20090	<u>64570</u>	73260	38120	12730	6351	4554	26330	
1934-35	6692	12290	7715	7865	8247	8051	15950	56650	60570	22100	7689	4821	18240	
1935-36	4626	4764	<u>4159</u>	4031	4360	7657	32750	74360	41870	10930	5386	4533	16640	
1936-37	4681	4489	4200	<u>3342</u>	<u>4122</u>	5060	9800	46980	44220	14470	6169	4099	12670	
1937-38	4998	6147	6061	5764	5240	7080	26250	60350	63930	22510	7040	5823	18460	
1938-39	6018	5858	6089	5898	4725	8615	29000	68060	36520	15160	5323	4451	16380	
1939-40	4658	5028	6000	4491	5578	8921	20960	45730	28870	8601	4004	4284	12270	
1940-41	5624	5244	4906	4563	4549	5881	13790	<u>28260</u>	22250	8473	4307	6965	<u>9582</u>	
1941-42	9822	9114	13530	7482	6303	6880	25650	46280	54240	24430	8230	6274	18220	
1942-43	5819	7882	8195	6528	8098	9372	53990	57650	83820	44520	11990	7106	25420	
1943-44	7288	7074	5368	4565	4545	<u>5031</u>	11300	34590	32780	12480	5877	5026	11330	
1944-45	5721	5714	4468	5782	5322	5587	9280	50170	55550	20180	6006	5239	14950	
1945-46	6673	9370	7626	6747	6291	8578	31080	65520	53590	21300	7626	7196	19340	
1946-47	11030	11530	13610	8855	10050	13910	33240	92140	64730	23220	10440	8911	25210	
1947-48	16400	12500	9455	9385	8250	8365	26940	94820	96190	25570	14230	7864	27510	
1948-49	7066	6974	5181	4760	6757	8138	28530	80840	48590	14450	7330	6413	18810	
1949-50	7055	10090	9708	6175	7938	11960	21910	58150	101500	<u>51520</u>	<u>16490</u>	8748	25980	
1950-51	13700	15630	14780	11380	16000	11110	32040	88560	64900	37710	12810	11920	27600	
1951-52	17130	12100	8935	7972	8158	7954	38920	76900	47620	18960	8108	5734	21560	
1952-53	5528	5030	5004	8474	8723	7487	17130	49960	89260	31570	10070	5842	20340	
1953-54	5568	6447	6630	5816	7434	9507	19890	85840	75920	47680	13710	10340	24670	
1954-55	9707	9886	7598	6402	6703	5563	11810	46550	79950	38330	10340	6581	19980	
1955-56	11290	11750	12570	9912	8287	12160	42420	<u>94870</u>	81160	26370	10770	7551	27440	
1956-57	8361	7680	8455	5309	8173	10170	17670	88430	56430	15530	6944	4845	19910	
1957-58	6422	6548	6162	6113	6663	7538	18990	80850	49470	15960	6956	5744	18190	
1958-59	8952	13250	14180	12550	10380	10660	35110	65070	105400	36420	11500	13730	28090	
1959-60	<u>24350</u>	19760	14710	10040	8298	13820	35260	49730	69770	22720	10090	7280	23800	
1960-61	6467	7652	6100	6250	10010	10500	19350	68480	78670	15610	6733	6414	20180	
1961-62	8939	7687	6637	5999	9763	7485	37100	65470	65380	21180	9123	6777	20960	
1962-63	9809	10830	10960	7824	14820	11150	19760	49000	54290	23950	7717	7091	18920	
1963-64	5846	6095	5934	5925	5832	6055	12970	58970	113300	34850	11290	11050	23140	
1964-65	10100	9335	12160	10350	10290	10380	35990	74630	95350	32960	14010	14580	27530	
1965-66	11500	9742	8289	7646	6679	8645	26190	54640	55850	20870	7214	6598	18690	
1966-67	6496	8007	8659	7532	8443	7825	13320	63760	105400	31720	8962	5758	23000	
1967-68	8408	10870	8187	8096	11150	14720	14070	48370	67300	23150	10990	<u>15680</u>	20060	
1968-69	15940	13860	9500	11100	9446	10650	44100	72400	53910	27510	8107	7528	23720	
1969-70	8594	7386	6679	7249	7374	7689	10920	66480	85360	24790	9045	7638	20800	
1970-71	8187	8049	7615	10020	<u>20940</u>	10370	25580	91840	84340	32610	11580	7208	26520	
1971-72	7200	7572	6632	7016	9897	25460	27210	79660	109900	36210	13950	8965	28300	
1972-73	8635	7707	8151	7858	6278	7114	12020	39730	39570	12310	5240	5109	13340	
1973-74	4819	11540	9319	19190	11290	11820	34770	63350	<u>119600</u>	43120	12890	8175	<u>29150</u>	
1974-75	6486	6740	6016	6365	6335	6305	<u>8880</u>	50570	107600	48700	15020	11490	23400	
1975-76	12210	14120	18770	11310	9622	9614	32600	91510	64730	33630	15680	9487	27000	
1976-77	7172	6562	5782	5629	5912	5523	15040	30960	23380	<u>7972</u>	5249	6837	10510	
1977-78	7245	7402	11280	7298	6792	13060	32320	58970	70680	35250	11880	11520	22860	
1978-79	8058	7519	6418	7253	8329	10750	18030	72170	56080	18870	7170	6266	18790	
1979-80	5307	5705	6658	5535	6192	6961	26660	72260	58130	21370	8611	9515	19420	
1980-81	8698	10270	15180	13940	11340	11620	23540	70170	71700	27670	9282	6192	23350	
1981-82	6522	6897	6790	6130	12260	12370	19030	65860	90260	41800	11720	7627	23960	
1982-83	8780	7598	7009	8079	7672	11630	17360	46190	50970	30150	11130	7733	17910	
1983-84	8026	10570	6743	11790	8156	9728	20750	42320	63160	23840	8584	8700	18510	
1984-85	8650	8625	6427	5899	6088	6535	25580	64150	47510	10820	7759	14390	17730	
1985-86	14890	16020	8577	8066	12550	<u>26590</u>	33110	50450	50480	14250	6447	7520	20750	
1986-87	8381	9189	7146	5570	5785	10510	27720	48450	<u>21750</u>	10560	6251	4820	13890	
1987-88	<u>4206</u>	<u>4279</u>	4569	4224	4402	6746	23240	43460	33170	9015	<u>3800</u>	<u>3482</u>	12050	
1988-89	6573	8011	6339	5690	5658	8830	33990	59070	55200	17930	9679	9251	18870	
MEAN	8429	8933	8352	7560	8083	9664	24930	62120	64570	24280	9035	7473	20280	
MEDIAN	7268	7882	7009	6610	7434	8645	25580	60350	60570	22610	8564	7028	19980	

TOM3A

USGS # 12391301

NOXON RAPIDS

River: CLARK FORK

Drainage Area: 21833 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 169.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										45570	<u>18530</u>	9326	
1928-29	7437	7010	5237	3997	3502	5499	8842	37040	57100	23470	8551	4607	14390
1929-30	4297	3745	4132	2853	5479	5595	24930	42470	39560	17760	7834	5053	13660
1930-31	5654	5605	4830	4026	4278	5314	10200	36750	31810	12520	5528	<u>3842</u>	10900
1931-32	3783	3561	3677	3667	4413	9423	22600	65340	66890	32780	11360	6409	19520
1932-33	5014	6865	7853	6884	4956	6022	14270	45950	108700	46440	14270	8066	22960
1933-34	9249	<u>19430</u>	<u>27690</u>	<u>25430</u>	17840	20580	<u>55590</u>	72990	47010	18230	7869	4811	27250
1934-35	5099	9006	8076	6795	7718	7563	13440	45380	62740	29390	11360	5521	17700
1935-36	4041	3625	2988	3070	<u>2366</u>	5324	23600	66050	49790	16160	6588	4335	15680
1936-37	<u>3576</u>	<u>3132</u>	<u>2865</u>	<u>1697</u>	2380	<u>3243</u>	6416	35100	44410	21380	7940	4095	11390
1937-38	3620	3969	4718	4876	4201	6230	20210	51730	68000	23250	5861	7950	17070
1938-39	6585	4832	4827	6346	6791	7754	21750	61320	40650	14980	6486	6096	15750
1939-40	5837	4878	4744	4693	5236	7163	17740	38480	26060	<u>7208</u>	<u>4871</u>	4657	10970
1940-41	5784	5347	4331	6377	6451	5991	9239	<u>14220</u>	20000	8299	4992	6006	<u>8077</u>
1941-42	7295	9782	16770	17230	8125	6953	18640	38590	46900	23600	8909	6559	17490
1942-43	6107	7164	8832	11420	12330	9181	44730	56470	82720	43390	11560	9636	25280
1943-44	9723	8415	7065	5957	5112	5750	7512	19420	27750	10900	5974	5548	9927
1944-45	6032	6154	5805	7535	7908	8057	8609	34710	51710	18810	6121	5710	13930
1945-46	6461	7236	9307	10750	11060	11060	24100	58010	52130	20190	8144	7033	18810
1946-47	8464	10120	18410	13490	15160	16080	27200	<u>83420</u>	62420	22630	9239	8173	24620
1947-48	15850	14000	11950	13720	12340	9704	21690	80080	<u>110500</u>	22280	12620	7098	27620
1948-49	6864	7177	7376	12550	8725	9452	23520	72050	47340	14400	6797	4917	18490
1949-50	7832	9132	10980	11280	13300	13540	20870	49030	95660	<u>54140</u>	15610	7601	25770
1950-51	11360	15170	17120	19380	21090	15250	28180	78970	65430	37990	11650	10010	27660
1951-52	13760	12500	10960	11600	14080	9578	26260	63140	38100	18180	7304	6629	19350
1952-53	8047	8464	8425	9782	9878	9355	11610	31470	65660	26180	8541	8764	17170
1953-54	9152	9365	10440	7411	12330	14270	20670	62570	60200	45150	13130	9559	22920
1954-55	10220	12790	14940	14530	15400	10840	12950	31660	56130	38350	10410	10650	19910
1955-56	11480	13000	18710	16210	15880	19370	43630	74130	70920	26520	9307	10770	27480
1956-57	11880	13780	16980	14770	13180	13300	14960	59590	47460	14970	7158	7551	19670
1957-58	11570	15240	14370	8968	8231	11280	14910	52790	42690	16190	5548	7437	17480
1958-59	8532	11160	19260	21380	21650	16420	27750	53950	79690	33690	10130	13240	26370
1959-60	<u>23750</u>	19340	18150	12990	14270	21470	38510	42930	52470	22240	8262	7733	23440
1960-61	6172	7629	9535	8946	12600	19290	27440	56330	64500	15220	6129	7326	20080
1961-62	10380	8423	12300	15710	22110	13440	28520	55500	45400	19720	7999	5770	20410
1962-63	8685	10510	15990	15930	19960	18180	23330	29610	39210	22280	7601	5194	18010
1963-64	8343	7107	9919	12150	15220	17940	15570	38010	89370	32780	9697	9992	22120
1964-65	9723	12390	16140	16500	<u>23480</u>	30180	36620	61810	69030	29300	12660	13500	27590
1965-66	12990	12080	15150	14900	17050	16690	23910	29980	42360	19900	6992	10540	18520
1966-67	14770	14210	11650	12870	16850	18450	18940	40900	77120	25020	8185	8261	22230
1967-68	11320	12440	16110	16150	13480	17550	19370	27390	45780	19740	9075	14420	18550
1968-69	15250	15940	15340	16930	18730	19930	44120	58190	37680	24380	12230	13100	24330
1969-70	13800	10480	12060	10190	9476	13880	17350	41560	62630	21650	11040	12570	19740
1970-71	14060	9870	14060	16050	23330	18280	28040	70780	70210	28820	11320	10360	26250
1971-72	12010	12610	15200	15210	15610	<u>32410</u>	33740	61070	87970	28870	11430	9145	27920
1972-73	12150	13040	13300	14330	14320	16620	13760	14460	21670	13370	7530	4838	13270
1973-74	8848	11750	12430	22230	19800	22220	39600	56730	92590	40710	13820	9609	<u>29170</u>
1974-75	10850	13840	13370	14590	11850	13100	13820	32700	81860	40170	15030	12380	22800
1975-76	16160	16050	22090	17200	19030	18960	29440	70780	50740	30470	14740	10690	26400
1976-77	10670	12750	13000	14990	10130	12640	<u>4873</u>	16210	<u>13400</u>	8330	8897	8100	11170
1977-78	11880	13330	13630	14030	14870	14800	25870	38050	50060	31070	11320	12070	20920
1978-79	13050	15380	15260	13780	10840	10200	15970	48130	40700	17490	10470	9125	18410
1979-80	10750	13720	12860	10680	9719	9342	12920	45290	51090	20530	9334	10740	18080
1980-81	13260	13050	17770	16840	17790	15170	18110	48200	63820	26180	9125	8833	22340
1981-82	14190	13180	11400	13620	17140	16010	21300	52440	70400	40730	11820	8884	24270
1982-83	10160	10770	11090	15930	15960	14800	17870	32540	37360	29160	11570	13120	18370
1983-84	14100	14790	12050	16490	14560	13490	16770	26700	46030	21130	10210	12270	18190
1984-85	13520	12600	13450	13280	12530	14160	19210	33610	36020	13360	12880	<u>16420</u>	17590
1985-86	15710	16380	14480	14700	17890	24930	26900	31640	42910	13750	7305	12260	19870
1986-87	13050	13820	12920	12710	11040	9496	17630	28450	15470	9628	9230	12730	13860
1987-88	12260	11240	11110	7625	11040	15540	20970	22650	20970	9671	5350	5908	12850
1988-89	9477	12120	11360	8166	10500	12280	24160	38230	36730	18230	14460	15650	17620
MEAN	10020	10700	11920	12040	12500	13390	21990	46950	54450	24180	9608	8696	19670
MEDIAN	10160	11240	12060	12990	12530	13440	20870	45380	50740	22260	9178	8217	19350

NOX3H

USGS # 12391301

NOXON RAPIDS

River: CLARK FORK

Drainage Area: 21833 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 169.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	2979	730	1162	485	181	-210	442
1959-60	-198	326	-210	209	-69	-153	112	120	53	-10	27	-939	-60
1960-61	725	-49	-206	113	319	-1291	-1128	551	1915	-71	80	-152	64
1961-62	-6	-31	78	-359	-926	-2344	417	621	2696	-41	-94	174	14
1962-63	-111	21	65	-329	-237	-1919	-1043	1106	2324	88	-581	606	-4
1963-64	-324	211	68	17	-779	-2077	-910	985	2806	-22	70	-166	-11
1964-65	-5	112	37	9	-786	-2227	331	359	2184	69	133	-45	14
1965-66	-109	37	-35	0	-302	-1941	-1579	3210	671	-53	-215	282	1
1966-67	-18	-72	-251	226	-1058	-1758	-2003	2913	1840	0	-89	21	-12
1967-68	81	-105	-104	151	-51	-989	-2702	1326	2529	-321	249	45	10
1968-69	-85	-22	-174	131	-456	-761	-1669	2588	382	-234	128	82	0
1969-70	-257	280	-102	-92	-116	-2116	-2094	3773	703	-191	70	59	-3
1970-71	-198	159	-28	125	-13	-2046	-958	2630	290	-233	243	-128	-12
1971-72	-92	239	-190	-150	-225	-1950	101	2121	325	-151	-113	185	7
1972-73	-116	-165	236	-233	208	-2790	-1532	3931	119	67	106	224	7
1973-74	-276	-104	-197	165	-75	433	-2024	390	1318	189	-306	229	-20
1974-75	-84	-127	279	-126	-62	-1702	-1474	2179	1047	81	-120	287	16
1975-76	-437	370	-453	130	-725	-1447	1499	984	189	-255	-101	125	-12
1976-77	47	-3	5	-879	380	-2849	3359	-330	14	530	-54	-146	-6
1977-78	70	92	-141	77	-1127	-59	-79	260	1133	-151	-38	91	17
1978-79	-227	-161	-354	72	427	171	-718	774	-51	-60	-25	169	0
1979-80	-212	88	117	-563	-468	-2050	2525	674	-48	-81	-270	391	3
1980-81	-176	38	-213	238	-84	-57	134	6	141	-49	-132	53	-9
1981-82	-52	-62	101	-44	-166	20	164	34	46	-25	-201	218	3
1982-83	77	-93	33	-96	-103	81	-127	252	-20	-63	-13	-232	-24
1983-84	233	-55	-13	63	-244	219	-140	-370	675	-237	-137	74	6
1984-85	-128	203	-31	143	-131	-2606	-305	3095	-145	-44	126	-121	7
1985-86	-65	52	-256	231	139	-299	405	75	-146	-52	95	-44	10
1986-87	-42	-109	-35	-373	26	568	40	-61	-107	-48	146	-116	-9
1987-88	36	-107	222	-47	-54	-250	9	241	39	31	-35	-91	0
1988-89	75	-94	16	109	-1163	712	232	-50	84	-44	13	52	4
MEAN	-62	29	-58	-36	-264	-1116	-264	1133	780	-29	-28	32	14

NOX3S

USGS # 12391301

NOXON RAPIDS

River: CLARK FORK

Drainage Area: 21833 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 169.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-7545	-5229	-2147	
1928-29	210	-592	-744	-686	-189	417	2770	12611	-3418	-7448	-3104	-1519	-135
1929-30	-568	-606	530	-511	503	246	11324	1162	-2481	-5312	-2979	-631	32
1930-31	134	20	-762	-170	335	840	3295	9180	-5458	-4978	-2242	-395	-13
1931-32	-570	196	-19	-360	812	2181	6170	9750	-1625	-10213	-3569	-1882	61
1932-33	-248	2099	-327	-1036	-994	-19	6467	9377	7331	-14886	-4949	-1552	76
1933-34	3615	-20	1308	-2143	-1415	1453	14228	867	-9765	-5689	-2927	-1342	-152
1934-35	401	2475	-1250	-76	-127	-153	3866	13331	-3620	-8289	-4111	-1899	45
1935-36	-895	-293	-227	-208	-40	435	11438	8171	-9480	-6010	-2534	-1378	-87
1936-37	-511	-274	-38	-133	21	227	3307	12526	-1936	-8045	-3163	-1440	47
1937-38	-210	690	0	-229	-317	516	8454	9941	-4367	-920	160	-4065	820
1938-39	-2120	-444	-235	-2047	-3443	19	8716	6634	-3483	-60	-1885	-3048	-95
1939-40	-2780	-1446	-233	-1718	-904	1500	3916	7859	2849	424	-1997	-1781	477
1940-41	-1732	-1615	-1318	-3429	-3310	-1309	3877	14148	2012	-697	-2020	-521	364
1941-42	948	-1834	-2978	-10254	-2906	-1184	7504	6981	6163	389	-2084	-1625	-79
1942-43	-1694	-561	-1820	-6052	-5463	-1247	12355	3166	2897	1839	-307	-3770	-41
1943-44	-3692	-2558	-2634	-2681	-1951	-2213	2849	13994	2711	225	-1516	-1898	61
1944-45	-1694	-1845	-2863	-2930	-3401	-3269	517	16363	1813	574	-861	-1558	103
1945-46	-928	1104	-2662	-4735	-5914	-3379	8338	8493	1228	697	-1721	-1192	-34
1946-47	908	317	-4320	-5264	-5444	-1689	7131	8619	1603	574	61	-487	192
1947-48	-881	-2800	-3555	-5468	-5023	-1982	6356	18894	-9194	3393	287	-868	-26
1948-49	-1004	-1334	-3763	-9084	-2617	-1462	7695	10436	2180	-287	-799	-106	-14
1949-50	-2534	-979	-2872	-6004	-5475	-732	3703	11937	5732	-1783	-184	-445	54
1950-51	451	-318	-2426	-8215	-3631	-4200	5697	11254	1271	164	-41	491	53
1951-52	1613	-2280	-3249	-5169	-7735	-2572	13048	13557	9205	219	-80	-2328	1199
1952-53	-4343	-5160	-5113	-2505	-1783	-2657	5298	20468	22034	5005	820	-4471	2310
1953-54	-5285	-4633	-4721	-3300	-6229	-4802	-316	25318	15931	2718	104	-133	1266
1954-55	-1591	-3561	-8376	-9417	-9597	-6715	-1371	16178	24716	-509	-514	-5039	-454
1955-56	-1088	-1821	-5573	-6717	-8710	-8101	1107	24235	11489	47	863	-4465	137
1956-57	-4747	-7437	-9548	-11130	-5894	-4051	4137	32461	9742	138	-796	-4372	-84
1957-58	-6394	-10068	-9335	-4311	-2387	-4263	5037	29183	6911	-439	382	-2885	144
1958-59	-360	1430	-5831	-9470	-10899	-6116	1444	11520	25023	1450	383	-202	725
1959-60	-347	-741	-4180	-4864	-7608	-7670	-1321	9734	17183	-668	327	-1853	-165
1960-61	-1204	-1425	-4651	-4112	-2765	-8556	-6460	17204	13585	-403	-251	-2017	-77
1961-62	-2322	-1771	-7259	-11262	-13722	-5248	11183	13366	19405	-239	145	-71	221
1962-63	-122	-900	-6175	-9966	-5194	-6751	-2718	19798	12223	-117	-652	620	21
1963-64	-3668	-1879	-5890	-7902	-10897	-12414	-1722	22603	21430	17	363	-290	-10
1964-65	-940	-4232	-4697	-6884	-12950	-18373	3198	16696	25073	2697	153	-274	-2
1965-66	-2741	-3586	-8301	-8587	-11263	-7686	5026	24758	11848	-140	-626	-5302	-490
1966-67	-9935	-7515	-3744	-6129	-8320	-10100	-4243	24474	26258	5071	-492	-4422	117
1967-68	-4422	-2808	-9592	-10000	-2151	-2300	-4270	21172	17163	1658	604	-499	371
1968-69	-844	-3192	-7150	-7405	-10697	-9701	4096	17332	14884	1842	-5592	-7125	-1087
1969-70	-6638	-4387	-6753	-4240	-2699	-5841	-5693	25449	21894	1793	-3354	-6446	270
1970-71	-7086	-2740	-7605	-6900	-1673	-7338	-872	25658	15722	2579	-600	-4202	428
1971-72	-5923	-6518	-9963	-10097	-6402	-3332	-4903	21284	23320	5742	1294	-1681	246
1972-73	-4546	-6332	-6853	-7642	-9037	-8935	-960	23750	16140	-2126	-3294	-620	-836
1973-74	-4987	-696	-3293	-1248	-8560	-10383	-2428	10711	30543	1861	-1773	-2323	632
1974-75	-5336	-8248	-8354	-9323	-6311	-8274	-3604	19124	25666	6874	-1070	-1776	135
1975-76	-5007	-3070	-3110	-6329	-9794	-9304	2919	21920	12550	1442	-153	-1797	47
1976-77	-4367	-7089	-8280	-10277	-4954	-6608	9161	14346	9018	-1379	-4324	-1960	-1404
1977-78	-5761	-6920	-2416	-7351	-8325	-396	8000	20933	17866	2523	133	-1109	1478
1978-79	-6177	-9194	-10430	-9069	-3740	324	2278	24028	12573	-2103	-4295	-3781	-788
1979-80	-6489	-9333	-7359	-6180	-3748	-1399	14335	25311	5302	-349	-1162	-2499	544
1980-81	-5563	-3921	-2907	-3453	-7069	-3870	5394	19789	5330	-245	-239	-3477	29
1981-82	-8405	-6804	-4984	-8271	-3829	-2528	-1197	15799	22269	1737	-373	-1825	132
1982-83	-1800	-3579	-4260	-7779	-8241	-2226	117	15077	14204	235	-816	-6144	-388
1983-84	-6764	-4637	-6694	-5413	-6686	-3800	4157	16530	16922	2676	-2154	-4163	1
1984-85	-5946	-4790	-8039	-8616	-7679	-7137	7535	30005	10545	-3178	-5944	-3336	-523
1985-86	-1802	-664	-6725	-7552	-5725	3382	6438	18285	6547	-192	-1402	-5762	439
1986-87	-5619	-5322	-6376	-8021	-5549	1283	11335	19586	5509	396	-3798	-9130	-446
1987-88	-9039	-7671	-7228	-4046	-7660	-9707	2949	20211	10941	-1081	-2097	-3116	-1453
1988-89	-3577	-4963	-5710	-2903	-6058	-3489	11412	21442	17094	-1019	-5664	-7507	775
MEAN	-2868	-2936	-4491	-5529	-5138	-3781	4061	16310	9623	-635	-1511	-2465	85

NOX3SS

USGS # 12391301

NOXON RAPIDS

River: CLARK FORK

Drainage Area: 21833 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 169.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										38020	13300	7179	
1928-29	7647	6418	4493	3311	3313	5916	11610	49650	53680	16020	5447	3088	14260
1929-30	3729	3139	4662	2342	5982	5841	36250	43630	37080	12450	4855	4422	13690
1930-31	5788	5625	4068	3856	4613	6154	13490	45930	26350	7542	3286	3447	10880
1931-32	3213	3757	3658	3307	5225	11600	28770	75090	65280	22570	7791	4527	19580
1932-33	4766	8964	7526	5848	3962	6003	20740	55330	116000	31550	9321	6514	23040
1933-34	12880	<u>19410</u>	<u>29000</u>	<u>23290</u>	16430	22030	<u>69820</u>	73860	37250	12540	4942	3469	27100
1934-35	5500	11480	6826	6719	7591	7410	17310	58710	59120	21100	7249	3622	17750
1935-36	3146	3332	<u>2761</u>	2862	<u>2326</u>	5759	35040	74220	40310	10150	4054	2957	15600
1936-37	3065	<u>2858</u>	2827	<u>1564</u>	2401	<u>3470</u>	9723	47630	42470	13330	4777	<u>2655</u>	11440
1937-38	3410	4659	4718	4647	3884	6746	28660	61670	63630	22330	6021	3885	17890
1938-39	4465	4388	4592	4299	3348	7773	30470	67950	37170	14920	4601	3048	15650
1939-40	<u>3057</u>	3432	4511	2975	4332	8663	21660	46340	28910	7632	<u>2874</u>	2876	11450
1940-41	4052	3732	3013	2948	3141	4682	13120	<u>28370</u>	22010	7602	2972	5485	<u>8441</u>
1941-42	8243	7948	13790	6976	5219	5769	26140	45570	53060	23990	6825	4934	17410
1942-43	4413	6603	7012	5368	6867	7934	57080	59640	85620	45230	11250	5866	25240
1943-44	6031	5857	4431	3276	3161	3537	10360	33410	30460	11130	4458	3650	9989
1944-45	4338	4309	2942	4605	4507	4788	<u>9126</u>	51070	53520	19380	5260	4152	14040
1945-46	5533	8340	6645	6015	5146	7681	32440	66500	53360	20890	6423	5841	18780
1946-47	9372	10440	14090	8226	9716	14390	34330	92040	64020	23200	9300	7686	24810
1947-48	14970	11200	8395	8252	7317	7722	28050	<u>98970</u>	101300	25670	12910	6230	27590
1948-49	5860	5843	3613	3466	6108	7990	31210	82490	49520	14110	5998	4811	18470
1949-50	5298	8153	8108	5276	7825	12810	24570	60970	101400	<u>52360</u>	<u>15430</u>	7156	25820
1950-51	11810	14850	14690	11160	17460	11050	33880	90220	66700	38150	11610	10500	27720
1951-52	15370	10220	7711	6431	6345	7006	39310	76700	47310	18400	7224	4301	20550
1952-53	3704	3304	3312	7277	8095	6698	16910	51940	87690	31190	9361	4293	19480
1953-54	3867	4732	5719	4111	6101	9468	20350	87890	76130	47870	13230	9426	24180
1954-55	8629	9229	6564	5113	5803	4125	11580	47840	80850	37840	9896	5611	19450
1955-56	10390	11180	13140	9493	7170	11270	44740	98370	82410	26570	10170	6305	27620
1956-57	7133	6343	7432	3640	7286	9249	19100	92050	57200	15110	6362	3179	19590
1957-58	5176	5172	5035	4657	5844	7017	19950	81970	49600	15750	5930	4552	17630
1958-59	8172	12590	13430	11910	10750	10300	29190	65470	104700	35140	10510	13040	27100
1959-60	<u>22800</u>	18600	13970	8126	6662	13800	37190	52660	69650	21570	8588	5880	23280
1960-61	4968	6204	4884	4834	9838	10730	20980	73540	78090	14810	5878	5309	20010
1961-62	8055	6652	5039	4445	8385	8195	39700	68870	64810	19480	8143	5700	20630
1962-63	8562	9610	9818	5962	14760	11430	20610	49410	51440	22170	6949	5814	18030
1963-64	4675	5228	4030	4244	4320	5522	13840	60620	110800	32800	10060	9701	22110
1964-65	8783	8157	11440	9636	10520	11810	39820	78510	94100	31990	12820	13220	27580
1965-66	10240	8489	6851	6313	5783	9000	28940	54740	54200	19760	6367	5234	18030
1966-67	4838	6699	7909	6740	8530	8348	14700	65370	103400	30090	7693	3839	22350
1967-68	6897	9634	6521	6151	11330	15240	15100	48560	62950	21400	9679	<u>13920</u>	18920
1968-69	14410	12750	8192	9521	8028	10230	48210	75520	52560	26220	6639	5978	23240
1969-70	7164	6090	5308	5946	6778	8038	11660	67010	84520	23450	7683	6120	20010
1970-71	6972	7130	6458	9155	<u>21660</u>	10940	27370	96440	85930	31390	10720	6155	26680
1971-72	6086	6096	5234	5114	<u>9208</u>	<u>29080</u>	28840	82360	111300	34610	12720	7464	28170
1972-73	7606	6711	6448	6685	5280	7688	12800	38210	37810	11240	4236	4219	12440
1973-74	3861	11050	9132	20980	11240	11830	37170	67440	<u>123100</u>	42570	12050	7286	<u>29800</u>
1974-75	5518	5593	5011	5266	5542	6828	10210	51820	107500	47050	13960	10600	22940
1975-76	11150	12980	18980	10880	9234	9656	32360	92700	63290	31910	14590	8892	26450
1976-77	6299	5657	4722	4711	5173	6034	14030	30560	22420	<u>6950</u>	4372	6140	9768
1977-78	6120	6413	11210	6679	6540	14410	33870	58990	67930	33600	11460	10960	22390
1978-79	6868	6189	4832	4710	7101	10520	18250	72150	53280	15390	6179	5344	17620
1979-80	4264	4384	5502	4499	5971	7943	27260	70600	56390	20180	8172	8238	18630
1980-81	7699	9125	14860	13390	10730	11300	23510	67990	69150	25940	8886	5356	22370
1981-82	5786	6378	6418	5345	13310	13490	20100	68240	92670	42460	11450	7059	24400
1982-83	8360	7190	6832	8151	7715	12570	17990	47620	51560	29400	10760	6980	17980
1983-84	7334	10150	5352	11080	7869	9685	20930	43230	62960	23800	8061	8108	18190
1984-85	7572	7807	5415	4659	4855	7019	26740	63610	46570	10180	6939	13080	17070
1985-86	13910	15710	7757	7152	12170	28310	33340	49920	49460	13560	5903	6497	20310
1986-87	7431	8500	6545	4689	5494	10780	28960	48030	<u>20980</u>	10020	5432	3595	13410
1987-88	3218	3566	3882	3579	3380	5828	23920	42860	31910	8589	3254	2792	11400
1988-89	5900	7157	5649	5263	4444	8794	35570	59670	53820	17210	8792	8148	18400
MEAN	7154	7761	7425	6510	7363	9605	26050	63260	64080	23540	8098	6231	19750
MEDIAN	6120	6699	6448	5345	6540	8348	26140	61670	59120	21870	7688	5828	19480

NOX3A

USGS # 12391900

CABINET GORGE

River: CLARK FORK

Drainage Area: 22067 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 149.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										48000	<u>20100</u>	10600	
1928-29	8649	8208	6384	5101	4593	6649	10130	39180	59920	25250	9787	5728	15830
1929-30	5414	4843	5242	3921	6628	6755	26740	44810	41810	19270	9057	6194	15070
1930-31	6805	6762	5960	5131	5391	6464	11520	38870	33760	13850	6677	4943	12210
1931-32	4876	4654	4775	4760	5533	10720	24260	68350	69990	34840	12730	7592	21120
1932-33	6154	8059	9083	8083	6094	7187	15660	48420	113400	48900	15720	9293	24690
1933-34	10520	<u>21030</u>	<u>29550</u>	<u>27220</u>	19390	22210	<u>58340</u>	76300	49490	19790	9096	5940	29100
1934-35	6238	10270	9314	7988	8940	8780	14840	47810	65720	31310	12700	6673	19240
1935-36	5146	4716	4059	4144	<u>3417</u>	6470	25330	69140	52360	17650	7774	5449	17160
1936-37	<u>4666</u>	<u>4208</u>	<u>3932</u>	<u>2727</u>	3432	<u>4322</u>	7597	37200	46810	23040	9169	5201	12730
1937-38	4711	5071	5844	6008	5311	7405	21830	54360	71150	24970	7024	9180	18590
1938-39	7771	5962	5957	7524	7984	8978	23420	64260	42930	16430	7669	7267	17220
1939-40	6999	6010	5871	5819	6379	8368	19280	40690	27870	<u>8414</u>	6002	5781	12300
1940-41	6944	6493	6045	7736	7632	7158	10510	<u>15650</u>	21610	9542	6127	7174	<u>9377</u>
1941-42	8504	11070	18280	18760	9356	8151	20210	40800	49380	25330	10170	7744	19030
1942-43	7278	8369	10090	12760	13700	10450	47140	59250	86340	45750	12900	10920	27070
1943-44	11010	9661	8267	7123	8251	6909	8728	21020	29610	12220	7141	6701	11220
1944-45	7200	7326	6966	8752	9136	9285	9861	36800	54340	20390	7292	6868	15360
1945-46	7643	8443	10580	12070	12390	13030	25850	60840	54770	21810	9380	8234	20440
1946-47	9707	11420	19970	14900	16620	17570	29040	<u>86880</u>	65390	24330	10510	9406	26360
1947-48	17330	15420	13310	15130	13710	10990	23360	83620	<u>115000</u>	23970	14000	8301	29470
1948-49	8059	8382	8587	13930	9981	10730	25250	75330	49830	15840	7990	6050	20050
1949-50	9058	10400	12310	12620	14700	14950	22510	51570	99740	<u>56850</u>	17080	8820	27570
1950-51	12700	16630	18640	20970	22740	16710	30060	82470	68500	40180	13000	11310	29530
1951-52	15180	13880	12290	12950	15510	10860	28070	66130	40290	19740	8513	7817	20950
1952-53	9278	9711	9669	11070	11170	10630	12960	33450	68740	27990	9795	10020	18700
1953-54	10420	10640	11750	8624	13700	15700	22310	65550	63100	47570	14520	10840	24630
1954-55	11520	14170	16390	15970	16870	12160	14340	33650	58900	40550	11720	11970	21520
1955-56	12820	14390	20280	17700	17360	20960	46000	77480	74160	28340	10580	12090	29330
1956-57	13230	15200	18500	16220	14580	14700	16410	62470	49950	16420	8362	8768	21270
1957-58	12920	16700	15800	10230	9465	12620	16360	55450	45030	17680	6701	8650	19020
1958-59	9781	12490	20850	23040	23320	17920	29610	56650	83810	35740	11430	14640	28240
1959-60	<u>24870</u>	20930	19710	14380	15700	23130	40720	45280	55510	24980	10010	9334	25370
1960-61	7404	8996	10670	10030	14750	21150	29980	57750	67670	17410	7414	8089	21760
1961-62	11320	9283	13270	16940	23870	14690	30500	56020	47240	22080	9812	6352	21750
1962-63	9875	11970	17480	17390	22110	20090	25520	32650	41700	24290	8773	5996	19780
1963-64	9236	7936	10890	13430	16610	19200	17410	40200	93860	35590	11270	11400	23860
1964-65	11150	13920	18410	18790	25600	32390	38770	63180	71820	31900	14710	15120	29620
1965-66	14660	13550	16870	16650	18820	18530	27110	34160	45970	22540	8205	11910	20720
1966-67	16420	16290	12950	14630	19260	20660	21220	44530	82100	27820	9640	9738	24560
1967-68	12650	14150	17730	18000	15980	19750	21870	31840	51980	22920	10030	15660	21020
1968-69	16440	17270	16280	17600	18910	20750	45280	60150	41170	26910	13760	14460	25760
1969-70	15090	11470	12920	10540	9960	14460	18470	43890	66680	23230	12220	13310	21040
1970-71	15100	10630	15080	17280	<u>26060</u>	20440	30800	75310	74050	31400	12240	11070	28270
1971-72	12680	13230	16100	16370	<u>16970</u>	<u>35550</u>	36200	66260	94970	32200	13710	9595	30300
1972-73	12930	13480	13490	15510	15790	18320	15190	16950	24700	14760	7889	<u>4779</u>	14470
1973-74	9789	12970	13650	23890	21300	23330	40690	57140	94550	41990	15380	10480	<u>30400</u>
1974-75	11520	13940	14020	15650	12670	14240	14840	36130	84850	42850	16010	13170	24170
1975-76	17190	17060	24320	18940	20860	20610	32720	75050	54560	32990	16490	11420	28550
1976-77	11210	13440	13750	15620	10730	13320	<u>5365</u>	18000	<u>14680</u>	8844	9174	8393	11900
1977-78	12350	14070	14990	15050	15960	15870	28640	42480	54480	33770	11940	12800	22700
1978-79	13530	16060	15910	14230	11330	10940	17630	53280	44850	20420	11780	9530	20010
1979-80	11510	16170	13270	11050	9869	9748	14540	49810	54880	22260	9886	10690	19480
1980-81	13590	13640	19650	18350	19460	16210	19860	52760	68600	29230	10020	9040	24200
1981-82	14770	13720	11630	13930	19300	18110	24130	57560	74290	43270	12980	9615	26120
1982-83	10630	11250	11730	16940	17140	16850	19740	36020	41380	32250	12340	13880	20020
1983-84	14760	15580	12560	17740	15700	14590	18570	29950	50640	23450	10690	13210	19760
1984-85	13960	13230	14100	14010	13360	15050	21690	37870	40240	14720	13580	<u>17500</u>	19110
1985-86	16040	17070	14720	14900	18450	27020	29730	34370	45940	15000	7566	12940	21110
1986-87	13890	14980	13760	13230	11910	11180	20810	33410	18730	11380	10590	13970	15670
1987-88	13190	12180	12190	8186	12080	17030	24420	26190	23830	10910	<u>5965</u>	6347	14360
1988-89	10550	13420	12420	8937	11530	13690	27910	42720	40860	20510	16240	17200	19680
MEAN	11100	11840	13100	13230	13830	14800	23900	49920	57710	26190	10820	9728	21310
MEDIAN	11150	12490	13270	14010	13710	14590	22510	48420	54480	24130	10100	9370	21020

CAB3H

USGS # 12391900

CABINET GORGE

River: CLARK FORK

Drainage Area: 22067 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 149.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52											2000		169
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 12391900

CABINET GORGE

River: CLARK FORK

Drainage Area: 22067 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 149.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-7545	-5229	-2147	
1928-29	210	-592	-744	-686	-189	417	2770	12611	-3418	-7448	-3104	-1519	-135
1929-30	-568	-606	530	-511	503	246	11324	1162	-2481	-5312	-2979	-631	32
1930-31	134	20	-762	-170	335	840	3295	9180	-5458	-4978	-2242	-395	-13
1931-32	-570	196	-19	-360	812	2181	6170	9750	-1625	-10213	-3569	-1882	61
1932-33	-248	2099	-327	-1036	-994	-19	6467	9377	7331	-14886	-4949	-1552	76
1933-34	3615	-20	1308	-2143	-1415	1453	14226	867	-9765	-5689	-2927	-1342	-152
1934-35	401	2475	-1250	-76	-127	-153	3866	13331	-3620	-8289	-4111	-1899	45
1935-36	-895	-293	-227	-208	-40	435	11438	8171	-9480	-6010	-2534	-1378	-87
1936-37	-511	-274	-38	-133	21	227	3307	12526	-1936	-8045	-3163	-1440	47
1937-38	-210	690	0	-229	-317	516	8454	9941	-4367	-920	160	-4065	820
1938-39	-2120	-444	-235	-2047	-3443	19	8716	6634	-3483	-60	-1885	-3048	-95
1939-40	-2780	-1446	-233	-1718	-904	1500	3916	7859	2849	424	-1997	-1781	477
1940-41	-1732	-1615	-1318	-3429	-3310	-1309	3877	14148	2012	-697	-2020	-521	364
1941-42	948	-1834	-2978	-10254	-2906	-1184	7504	6981	6163	389	-2084	-1625	-79
1942-43	-1694	-561	-1820	-6052	-5463	-1247	12355	3166	2897	1839	-307	-3770	-41
1943-44	-3692	-2558	-2634	-2681	-1951	-2213	2849	13994	2711	225	-1516	-1898	61
1944-45	-1694	-1845	-2863	-2930	-3401	-3269	517	16363	1813	574	-861	-1558	103
1945-46	-928	1104	-2662	-4735	-5914	-3379	8338	8493	1228	697	-1721	-1192	-34
1946-47	908	317	-4320	-5264	-5444	-1689	7131	8619	1603	574	61	-487	192
1947-48	-881	-2800	-3555	-5468	-5023	-1982	6356	18894	-9194	3393	287	-868	-26
1948-49	-1004	-1334	-3763	-9084	-2617	-1462	7695	10436	2180	-287	-799	-106	-14
1949-50	-2534	-979	-2872	-6004	-5475	-732	3703	11937	5732	-1783	-184	-445	54
1950-51	451	-318	-2426	-8215	-3631	-4200	5697	11254	1271	164	-41	491	53
1951-52	1613	-2280	-3249	-5169	-7735	-2572	13048	13557	9205	219	1920	-2328	1369
1952-53	-4343	-5180	-5113	-2505	-1783	-2657	5298	20488	22034	5005	820	-4471	2310
1953-54	-5285	-4633	-4721	-3300	-6229	-4802	-316	25318	15931	2718	104	-133	1266
1954-55	-1591	-3561	-8376	-9417	-9597	-6715	-1371	16178	24716	-509	-514	-5039	-454
1955-56	-1088	-1821	-5573	-6717	-8710	-8101	1107	24235	11489	47	863	-4465	137
1956-57	-4747	-7437	-9548	-11130	-5894	-4051	4137	32461	9742	138	-796	-4372	-84
1957-58	-6394	-10068	-9335	-4311	-2387	-4263	5037	29183	6911	-439	382	-2885	144
1958-59	-360	1430	-5831	-9470	-10899	-6116	1444	11520	25023	1450	383	-202	725
1959-60	-347	-741	-4180	-4864	-7608	-7670	-1321	9734	17183	-668	327	-1853	-165
1960-61	-1204	-1425	-4651	-4112	-2765	-8556	-6460	17204	13585	-403	-251	-2017	-77
1961-62	-2322	-1771	-7259	-11262	-13722	-5248	11183	13366	19405	-239	145	-71	221
1962-63	-122	-900	-6175	-9966	-5194	-6751	-2718	19798	12223	-117	-652	620	21
1963-64	-3668	-1879	-5890	-7902	-10897	-12414	-1722	22603	21430	17	363	-290	-10
1964-65	-940	-4232	-4697	-6864	-12950	-18373	3198	16696	25073	2697	153	-274	-2
1965-66	-2741	-3586	-8301	-8587	-11263	-7686	5026	24758	11848	-140	-626	-5302	-490
1966-67	-9935	-7515	-3744	-6129	-8320	-10100	-4243	24474	26258	5071	-492	-4422	117
1967-68	-4422	-2808	-9592	-10000	-2151	-2300	-4270	21172	17163	1658	604	-499	371
1968-69	-844	-3192	-7150	-7405	-10697	-9701	4096	17332	14884	1842	-5592	-7125	-1087
1969-70	-6638	-4387	-6753	-4240	-2699	-5841	-5693	25449	21894	1793	-3354	-6446	270
1970-71	-7086	-2740	-7605	-6900	-1673	-7338	-672	25658	15722	2579	-600	-4202	428
1971-72	-5923	-6518	-9963	-10097	-6402	-3332	-4903	21284	23320	5742	1294	-1681	246
1972-73	-4546	-6332	-6853	-7642	-9037	-8935	-960	23750	16140	-2126	-3294	-620	-836
1973-74	-4987	-696	-3293	-1248	-8560	-10383	-2428	10711	30543	1861	-1773	-2323	632
1974-75	-5336	-8248	-8354	-9323	-6311	-6274	-3604	19124	25666	6874	-1070	-1776	135
1975-76	-5007	-3070	-3110	-6329	-9794	-9304	2919	21920	12550	1442	-153	-1797	47
1976-77	-4367	-7089	-8280	-10277	-4954	-6608	9161	14346	9018	-1379	-4324	-1960	-1404
1977-78	-5761	-6920	-2416	-7351	-8325	-396	8000	20933	17866	2523	133	-1109	1478
1978-79	-6177	-9194	-10430	-9069	-3740	324	2278	24028	12573	-2103	-4295	-3781	-788
1979-80	-6489	-9333	-7359	-6180	-3748	-1399	14335	25311	5302	-349	-1162	-2499	544
1980-81	-5563	-3921	-2907	-3453	-7069	-3870	5394	19789	5330	-245	-239	-3477	29
1981-82	-8405	-6804	-4984	-8271	-3829	-2528	-1197	15799	22269	1737	-373	-1825	132
1982-83	-1800	-3579	-4260	-7779	-8241	-2226	117	15077	14204	235	-816	-6144	-388
1983-84	-6764	-4637	-6694	-5413	-6686	-3800	4157	16530	16922	2676	-2154	-4163	1
1984-85	-5946	-4790	-8039	-8616	-7679	-7137	7535	30005	10545	-3178	-5944	-3336	-523
1985-86	-1802	-664	-6725	-7552	-5725	3382	6438	18285	6547	-192	-1402	-5762	439
1986-87	-5619	-5322	-6376	-8021	-5549	1283	11335	19586	5509	396	-3798	-9130	-446
1987-88	-9039	-7671	-7228	-4046	-7660	-9707	2949	20211	10941	-1081	-2097	-3116	-1453
1988-89	-3577	-4963	-5710	-2903	-6058	-3489	11412	21442	17094	-1019	-5664	-7507	775
MEAN	-2800	-2917	-4433	-5452	-5058	-3704	4063	16370	9284	-635	-1478	-2465	88

CAB3SS

USGS # 12391900

CABINET GORGE

River: CLARK FORK

Drainage Area: 22067 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 149.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										40450	14870	8453	
1928-29	8859	7616	5639	4414	4404	7066	12900	51800	56500	17800	6683	4209	15700
1929-30	4846	4237	5772	3410	7131	7001	38060	45970	39330	13960	6078	5563	15110
1930-31	6939	6782	5197	4961	5727	7303	14820	48050	28300	8877	4435	4548	12200
1931-32	4305	4850	4756	4400	6346	12900	30430	78100	68360	24620	9163	5710	21180
1932-33	5906	10160	8755	7047	5100	7168	22130	57800	120700	34020	10770	7741	24770
1933-34	14130	<u>21010</u>	<u>30860</u>	<u>25070</u>	17970	23670	<u>72570</u>	77170	39720	14100	6170	4598	28950
1934-35	6639	12750	8064	7912	8813	8627	18700	61140	62100	23020	8592	4774	19290
1935-36	4251	4423	<u>3832</u>	3936	<u>3376</u>	6905	36770	77310	42880	11640	5240	4071	17070
1936-37	4155	<u>3934</u>	3894	<u>2594</u>	3453	<u>4549</u>	10900	49720	44870	14990	6007	3760	12780
1937-38	4501	5761	5844	5779	4994	7921	30280	64310	66780	24050	7184	5114	19410
1938-39	5650	5518	5722	5476	4541	8997	32140	70900	39440	16370	5784	4219	17130
1939-40	4219	4565	5638	4101	5475	9869	23200	48550	30720	8837	4005	4000	12770
1940-41	5212	4878	4726	4306	4322	5849	14380	<u>29800</u>	<u>23620</u>	8846	4107	6653	<u>9741</u>
1941-42	9452	9236	15300	8507	6450	6967	27720	47780	55540	25720	8087	6118	18950
1942-43	5584	7808	8265	6713	8240	9207	59490	62410	89230	47590	12590	7146	27030
1943-44	7314	7103	5634	4442	4300	4696	11580	35010	32320	12450	5625	4803	11280
1944-45	5506	5481	4103	5823	5735	6016	<u>10380</u>	53170	56160	20960	6431	5310	15460
1945-46	6716	9547	7921	7333	6471	9851	34190	89330	56000	22500	7658	7042	20410
1946-47	10610	11740	15650	9633	11170	15880	36170	95500	67000	24900	10580	8919	26560
1947-48	16450	12620	9751	9661	8687	9005	29720	<u>102500</u>	105800	27370	14290	7433	29450
1948-49	7055	7048	4824	4849	7364	9264	32940	85770	52010	15550	7191	5944	20040
1949-50	6523	9417	9434	6619	9225	14220	26210	63510	105500	<u>55070</u>	<u>16900</u>	8376	27620
1950-51	13150	16320	16210	12760	19110	12510	35760	93720	69770	40340	12960	11800	29580
1951-52	16790	11600	9041	7785	7775	8284	41110	79690	49490	19960	10430	5489	22320
1952-53	4935	4551	4556	8568	9389	7972	18260	53920	90780	33000	10610	5546	21010
1953-54	5133	6005	7025	5324	7469	10900	22000	90870	79030	50290	14620	10710	25890
1954-55	9924	10610	8011	6554	7270	5442	12970	49830	83620	40040	11200	6932	21060
1955-56	11730	12560	14710	10980	8652	12860	47110	101700	85650	28390	11440	7627	29470
1956-57	8482	7763	8955	5089	8681	10650	20550	94930	59700	16560	7567	4397	21190
1957-58	6525	6632	6468	5918	7079	8354	21390	84630	51940	17240	7083	5765	19160
1958-59	9421	13920	15020	13570	12420	11800	31050	68170	108800	37190	11820	14430	28960
1959-60	<u>24520</u>	20190	15530	9518	8096	15460	39400	55010	72690	24320	10340	7480	25200
1960-61	6200	7571	6020	5923	11990	12600	23500	74960	81250	17010	7163	6072	21680
1961-62	8993	7512	6010	5677	10150	9443	41680	69380	66650	21840	9957	6281	21970
1962-63	9753	11070	11290	7427	16910	13340	22800	52440	53930	24170	8121	6616	19800
1963-64	5568	6057	4997	5524	5716	6786	15690	62800	115300	35610	11630	11110	23850
1964-65	10210	9688	13710	11930	12650	14020	41970	79880	96890	34600	14860	14850	29620
1965-66	11920	9959	8567	8058	7554	10840	32130	58920	57820	22400	7580	6604	20230
1966-67	6488	8772	9203	8496	10940	10560	16970	69000	108400	32890	9148	5316	24680
1967-68	8224	11340	8137	8000	13830	17450	17600	53010	69140	24580	10630	<u>15160</u>	21390
1968-69	15590	14070	9130	10190	8217	11040	49380	77490	56050	28750	8165	7331	24680
1969-70	8455	7078	6171	6296	7262	8624	12780	69340	88580	25030	8869	6864	21310
1970-71	8014	7895	7474	10380	<u>24390</u>	13100	30130	101000	89770	33980	11640	6868	28700
1971-72	6756	6709	6137	6270	10570	<u>32220</u>	31300	87550	118300	37940	15010	7913	30550
1972-73	8380	7144	6634	7870	6758	9388	14230	40700	40840	12640	4595	4159	13630
1973-74	4802	12280	10360	22640	12740	12950	38260	67850	<u>125100</u>	43850	13600	8159	<u>31040</u>
1974-75	6181	5691	5666	6325	6358	7968	11240	55250	110500	49720	14940	11390	24300
1975-76	12180	13990	21210	12610	11070	11300	35640	98970	67110	34430	16340	9624	28600
1976-77	6841	6351	5468	5339	5781	6715	14530	32350	23700	<u>7464</u>	4849	6433	10500
1977-78	6588	7149	12570	7697	7635	15470	36640	63410	72350	36300	12070	11690	24180
1978-79	7355	6870	5478	5163	7586	11260	19900	77310	57420	18310	7488	5749	19220
1979-80	5019	6837	5914	4869	6121	8350	28870	75120	60180	21910	8724	8186	20020
1980-81	8026	9715	16740	14900	12390	12340	25250	72550	73930	28990	9782	5563	24230
1981-82	6367	6916	6647	5659	15470	15580	22940	73360	96560	45010	12600	7790	26250
1982-83	8830	7674	7468	9156	8899	14620	19860	51100	55580	32490	11520	7737	19630
1983-84	8000	10940	5861	12320	9016	10790	22730	46480	67570	26130	8539	9050	19760
1984-85	8016	8442	6057	5392	5681	7912	29230	67880	50780	11540	7631	14160	18590
1985-86	14240	16410	7998	7352	12720	30400	36160	52660	52480	14800	6165	7179	21550
1986-87	8272	9658	7379	5213	6364	12460	32140	52990	24240	11770	6792	4839	15220
1987-88	<u>4155</u>	4512	4962	4140	4417	7325	27370	46400	34770	9829	<u>3868</u>	<u>3231</u>	12910
1988-89	6977	8452	6711	6034	5472	10200	39330	64160	57960	19490	10580	9688	20450
MEAN	8227	8908	8608	7703	8687	11020	27960	66240	67330	25560	9345	7263	21400
MEDIAN	7055	7763	7025	6554	7586	9869	27720	64310	62100	24240	8797	6759	21180

CAB3A

USGS # 12393560

PRIEST LAKE

River: PRIEST

Drainage Area:

572 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

43.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1310	536	296	
1928-29	263	274	255	225	221	247	<u>409</u>	2414	2294	1059	434	236	697
1929-30	178	156	176	193	226	286	1403	2343	1364	695	352	208	633
1930-31	175	198	194	197	<u>208</u>	309	1079	3306	1640	733	302	182	714
1931-32	162	246	299	351	345	762	2444	5604	4181	1510	510	283	1393
1932-33	236	527	855	669	481	448	943	3690	5124	2103	615	349	1339
1933-34	386	757	1143	1622	1129	1119	<u>3445</u>	4135	1827	650	299	174	1391
1934-35	164	491	614	621	677	604	1084	3739	3877	1534	572	300	1191
1935-36	216	197	228	301	249	270	1124	3890	1813	679	282	193	789
1936-37	<u>152</u>	<u>133</u>	<u>152</u>	<u>189</u>	236	224	496	2258	2628	1269	495	333	716
1937-38	285	611	932	926	754	711	1797	4395	4010	1338	441	250	1373
1938-39	230	251	266	388	346	344	1502	3464	2017	1072	398	210	877
1939-40	183	215	423	478	421	605	2129	3340	1856	636	278	213	898
1940-41	219	326	333	431	432	842	1931	3058	2069	952	425	528	964
1941-42	827	972	<u>1687</u>	1150	761	562	1199	2569	3071	1502	<u>837</u>	388	1297
1942-43	302	339	395	370	383	334	2349	3200	3586	1738	578	303	1157
1943-44	255	294	358	326	294	262	716	2193	1620	626	274	176	617
1944-45	199	270	289	339	370	414	655	4426	3994	1277	420	254	1079
1945-46	228	381	418	398	390	567	1912	<u>5919</u>	4554	1768	558	407	1463
1946-47	306	386	600	532	629	874	1933	4852	3023	1051	430	433	1257
1947-48	855	1318	545	552	444	444	1101	5011	5422	1669	774	400	1545
1948-49	384	259	318	259	277	351	1638	4965	2665	771	385	240	1047
1949-50	236	406	976	623	494	566	1046	3466	4996	2535	430	178	1333
1950-51	365	1312	953	1481	<u>1820</u>	1069	1565	4469	2835	777	128	350	1423
1951-52	1092	1105	1417	782	584	465	1390	4899	3037	888	184	67	1329
1952-53	704	770	393	408	522	427	432	4135	4544	1124	452	134	1172
1953-54	821	811	514	466	420	447	905	4494	5143	2273	487	456	1441
1954-55	326	1553	854	554	425	374	701	2349	5385	<u>2694</u>	420	212	1321
1955-56	1029	1604	842	844	591	539	1766	5439	4840	992	234	205	1577
1956-57	389	1338	554	402	359	505	946	5028	2624	495	218	97	1084
1957-58	1284	524	378	359	437	995	1705	4187	2339	410	<u>86</u>	60	1068
1958-59	339	1354	729	689	639	504	1177	3665	4639	789	256	<u>1201</u>	1329
1959-60	1368	1001	830	672	579	513	2378	3957	4259	830	266	372	1417
1960-61	1309	720	623	492	715	998	1775	4850	6018	675	241	159	1548
1961-62	1293	594	439	382	315	306	1325	3350	3250	565	251	218	1026
1962-63	802	1368	1121	902	702	647	1475	3166	2635	860	220	163	1173
1963-64	482	1205	667	483	396	354	605	2990	4947	864	327	257	1129
1964-65	865	1083	666	549	446	452	1231	4153	3659	700	390	242	1205
1965-66	600	1023	567	504	372	417	1543	3363	2837	731	127	119	1018
1966-67	699	959	906	855	841	688	1090	3000	5547	1033	164	<u>56</u>	1317
1967-68	899	1098	565	420	535	1134	1348	2928	3422	656	368	505	1155
1968-69	1085	1706	1178	822	621	472	1946	5298	3900	1376	253	153	1571
1969-70	969	1139	575	430	438	435	768	2890	3151	362	236	71	956
1970-71	790	995	565	461	693	640	1212	4789	3944	1176	182	268	1311
1971-72	794	1131	553	441	417	1071	1724	3941	4700	1339	454	193	1396
1972-73	942	896	394	474	389	462	962	2715	2136	433	146	69	836
1973-74	932	1524	1217	<u>1721</u>	1505	961	2093	4630	<u>7030</u>	2659	348	258	<u>2071</u>
1974-75	848	975	696	520	412	445	578	3635	5110	1271	417	540	1289
1975-76	1223	1038	1078	836	595	496	1304	4350	3025	949	660	435	1335
1976-77	1367	514	269	231	231	267	476	<u>1199</u>	<u>985</u>	224	124	210	<u>510</u>
1977-78	1259	678	582	510	389	413	1820	3965	3252	874	173	410	1197
1978-79	1188	609	228	306	398	407	748	3329	1291	381	116	120	764
1979-80	1227	368	460	350	361	812	1572	4642	1631	586	309	488	1071
1980-81	994	693	814	1187	1111	1115	1393	3664	3308	1543	483	262	1383
1981-82	<u>1505</u>	812	720	532	919	1470	1419	3973	4996	1533	393	395	1557
1982-83	1417	783	721	701	800	1689	2011	4201	4420	1712	687	312	1625
1983-84	347	<u>2309</u>	1102	714	622	692	1663	2748	4716	1195	286	138	1373
1984-85	1157	714	392	328	236	289	1144	3298	2360	<u>215</u>	191	318	889
1985-86	1215	976	299	409	499	1040	1818	2549	1879	628	146	191	972
1986-87	1409	806	784	347	377	<u>1802</u>	2314	3604	1233	412	213	74	1121
1987-88	1040	603	479	293	335	302	2227	2508	1617	343	100	63	825
1988-89	874	1067	402	387	322	<u>224</u>	1878	4325	1880	480	368	176	1035
MEAN	716	799	623	564	527	614	1422	3753	3380	1057	350	267	1174
MEDIAN	794	770	565	474	432	496	1393	3690	3250	918	338	238	1191

PSL3H

USGS # 12393560

PRIEST LAKE

River: PRIEST

Drainage Area:

572 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

43.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-201	-335	-178	
1928-29	54	32	46	-96	110	100	538	407	-269	-533	-308	-151	-7
1929-30	-34	-95	207	-50	153	119	1023	-508	-80	-420	-230	-143	-8
1930-31	31	40	-15	130	187	331	480	-70	-559	-381	-265	-55	-14
1931-32	31	83	81	-8	131	277	1015	253	-558	-788	-284	-135	6
1932-33	92	293	77	-131	-85	0	900	637	-242	-975	-396	-36	10
1933-34	219	24	516	-177	-179	254	1244	-678	-815	-376	-184	-118	-22
1934-35	138	520	8	62	-43	0	558	692	-747	-563	-315	-178	11
1935-36	-27	32	23	23	-25	31	1427	-140	-759	-392	-230	-43	-8
1936-37	-34	-24	107	4	64	-15	516	811	-320	-609	-276	-111	9
1937-38	69	500	-62	-31	-123	134	1151	375	-900	-748	-284	-119	-4
1938-39	46	0	77	61	-59	177	1044	-77	-408	-493	-299	-95	-3
1939-40	11	36	295	-115	70	407	599	77	-774	-380	-218	20	2
1940-41	123	16	100	19	-21	465	435	197	-547	-454	-177	242	34
1941-42	100	72	301	-347	-191	-65	756	570	-409	-348	-462	-206	-19
1942-43	-46	119	8	-38	-25	100	1229	54	-281	-583	-277	-167	6
1943-44	84	-12	58	-27	-49	-23	640	143	-355	-312	-180	-28	-6
1944-45	8	111	-12	73	42	119	259	1097	-847	-640	-249	-44	6
1945-46	61	214	73	69	38	131	1073	281	-744	-715	-250	-123	8
1946-47	23	194	19	-31	119	170	787	-66	-567	-412	-142	-52	2
1947-48	747	-386	27	-42	54	-35	706	1115	-1305	-583	-280	-143	-8
1948-49	-23	127	54	-4	140	69	946	152	-1043	-353	-199	-63	-18
1949-50	69	436	-207	-150	13	100	464	971	-92	-1001	-19	-28	45
1950-51	714	-148	376	-399	-495	-319	692	565	-376	-4	97	-60	58
1951-52	-58	-403	-381	-154	-131	-8	1502	144	-481	-74	-19	52	-2
1952-53	-571	-595	-46	153	-51	42	1030	574	-465	-35	-70	20	-1
1953-54	-594	-428	-103	8	8	23	527	1305	-523	-294	105	-88	-3
1954-55	-15	-693	-253	-142	-51	-31	467	1058	169	-492	4	60	7
1955-56	-147	-716	-58	-123	-45	27	1282	916	-1171	-62	58	-16	-3
1956-57	-12	-1027	-142	-88	110	50	683	890	-485	-12	-4	28	1
1957-58	-982	-225	19	0	378	69	354	968	-573	-4	-19	68	2
1958-59	-108	-832	-196	127	-140	-8	826	600	-304	-27	-15	-423	-39
1959-60	-335	-127	-35	-96	-98	357	394	692	-332	0	23	-100	30
1960-61	-843	0	-211	34	289	69	449	1328	-1041	31	-43	-4	4
1961-62	-836	-281	-15	-99	4	65	1029	511	-352	12	-19	52	5
1962-63	-298	-469	-88	-215	34	119	425	707	-232	-46	8	4	-4
1963-64	-297	-592	-219	-15	-114	0	491	1178	-449	0	0	48	5
1964-65	-541	-437	-107	-84	-8	0	1221	388	-433	4	-31	-12	-4
1965-66	-448	-524	-130	-50	-80	199	552	653	-164	-43	39	16	3
1966-67	-575	-373	100	-50	-140	65	198	1377	-434	-236	-27	24	-3
1967-68	-471	-524	-157	0	176	276	0	965	-228	-27	12	20	5
1968-69	-228	-521	-127	-211	-81	19	1326	709	-740	-197	-35	140	5
1969-70	-533	-596	-100	0	-51	15	289	1181	-368	105	-128	104	-5
1970-71	-525	-647	-19	42	98	-69	806	872	-481	-89	35	12	3
1971-72	-471	-655	-115	-4	49	533	-24	1555	-833	-74	-93	16	-6
1972-73	-644	-484	-4	-27	-72	107	436	895	-124	-58	-105	100	3
1973-74	-490	-274	-130	377	-383	46	868	594	44	-695	31	-80	-6
1974-75	-663	-258	-111	-115	-8	15	360	1274	-337	-70	81	-172	1
1975-76	-717	-206	38	-127	-33	-103	658	846	-280	-39	108	-80	6
1976-77	-982	-253	-126	-8	17	15	661	679	20	-54	31	8	-1
1977-78	-963	-194	23	-96	-21	372	576	507	-240	-39	155	16	8
1978-79	-879	-373	-172	0	157	15	452	690	12	-15	-19	4	-12
1979-80	-920	-186	88	-107	131	0	1455	-322	-36	-35	12	-16	1
1980-81	-978	-52	315	-177	76	23	509	534	-240	50	-58	12	0
1981-82	-886	-127	-57	-27	463	-123	362	913	-453	-8	4	20	4
1982-83	-882	-222	-4	77	136	319	490	777	-710	-15	-19	-4	-5
1983-84	-8	-638	-395	-8	-49	234	485	626	-96	-147	-54	72	3
1984-85	-898	-214	0	-54	55	15	539	800	-268	46	-15	-44	-4
1985-86	-701	-365	11	19	47	311	266	634	-204	0	23	60	9
1986-87	-921	-20	-211	42	-17	376	657	93	-48	-8	-12	16	-6
1987-88	-867	-281	57	27	-65	211	799	240	-84	-23	-23	40	2
1988-89	-667	-412	-34	46	-140	330	824	-12	108	-70	27	-24	-2
MEAN	-313	-209	-14	-38	5	107	702	572	-426	-242	-94	-33	1

PSL3S

USGS # 12393560

PRIEST LAKE

River: PRIEST

Drainage Area:

572 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

43.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1109	201	118	
1928-29	317	306	301	<u>129</u>	331	347	947	2821	2025	526	126	85	690
1929-30	144	<u>61</u>	383	144	379	405	2425	<u>1835</u>	1284	275	122	65	625
1930-31	206	238	178	327	395	640	1559	3236	1081	352	<u>37</u>	127	700
1931-32	193	329	379	343	476	1039	3460	5857	3623	722	226	148	1399
1932-33	328	821	932	539	396	448	1843	4327	4882	1128	219	313	1349
1933-34	605	781	1659	1444	950	1373	<u>4690</u>	3457	1012	274	115	<u>55</u>	1368
1934-35	301	1011	622	683	634	604	1642	4430	3131	971	257	122	1202
1935-36	190	228	251	324	225	301	2551	3750	1054	287	52	150	781
1936-37	118	110	259	193	299	<u>209</u>	1012	3069	2308	659	219	222	725
1937-38	354	1111	870	895	631	845	2948	4770	3109	590	157	131	1369
1938-39	276	251	343	450	286	520	2546	3386	1610	580	98	115	874
1939-40	195	250	718	363	491	1012	2727	3417	1082	256	59	233	901
1940-41	341	342	433	450	411	1307	2366	3255	1522	498	249	770	997
1941-42	927	1043	<u>1988</u>	803	569	497	1955	3139	2662	1154	375	181	1278
1942-43	256	458	402	332	358	434	3578	3254	3305	1155	301	136	1163
1943-44	339	282	415	299	245	239	1356	2336	1265	314	94	148	611
1944-45	207	381	277	412	413	533	<u>914</u>	5523	3147	637	170	211	1073
1945-46	290	595	491	467	428	698	2984	6200	3810	1053	308	284	1471
1946-47	329	580	619	502	748	1043	2720	4786	2456	639	288	382	1259
1947-48	<u>1601</u>	932	572	509	497	409	1807	6127	4117	1086	494	257	1537
1948-49	361	386	372	255	418	421	2584	5117	1622	418	186	176	1029
1949-50	304	842	769	473	507	666	1510	4437	4903	1534	411	150	1378
1950-51	1078	1164	1328	1083	1325	750	2256	5034	2459	773	224	290	1481
1951-52	1034	702	1036	629	453	458	2892	5043	2556	814	164	119	1327
1952-53	133	175	347	561	471	470	1462	4709	4078	1089	382	154	1172
1953-54	227	382	410	474	428	470	1433	5800	4620	1979	592	368	1437
1954-55	311	860	601	412	374	343	1168	3406	5554	<u>2202</u>	424	272	1328
1955-56	882	888	785	721	545	565	3048	<u>6356</u>	3669	930	292	189	1574
1956-57	377	312	413	314	469	554	1629	5918	2139	483	214	125	1084
1957-58	302	299	397	359	815	1064	2059	5155	1766	406	66	128	1070
1958-59	230	523	533	816	498	497	2003	4265	4335	762	241	<u>778</u>	1290
1959-60	1033	874	796	576	481	870	2772	4649	3927	830	289	272	1447
1960-61	466	720	413	526	1004	1087	2225	6179	4977	706	198	155	1552
1961-62	457	313	423	283	320	371	2354	3861	2898	577	231	270	1031
1962-63	504	899	1032	687	736	766	1900	3873	2403	813	227	167	1169
1963-64	185	613	449	467	282	354	1096	4168	4498	864	327	305	1133
1964-65	324	646	559	465	437	452	2452	4541	3226	704	359	230	1201
1965-66	152	498	437	454	291	616	2095	4016	2673	688	166	135	1021
1966-67	124	586	1005	805	701	753	1288	4377	5113	797	137	80	1314
1967-68	429	574	408	420	711	1411	1348	3892	3194	629	380	525	1160
1968-69	856	1185	1051	611	540	491	3271	6007	3160	1179	219	293	1576
1969-70	436	544	475	430	387	450	1057	4070	2783	466	108	175	951
1970-71	265	349	546	503	790	571	2018	5661	3462	1087	216	280	1314
1971-72	323	476	438	437	466	1605	1700	5495	3868	1265	361	209	1390
1972-73	298	412	390	<u>447</u>	317	569	1398	3610	2012	375	41	169	839
1973-74	442	1249	1086	<u>2098</u>	1122	1007	2961	5224	<u>7074</u>	1964	379	178	<u>2064</u>
1974-75	185	717	585	406	403	460	938	4910	4773	1201	498	368	1290
1975-76	506	832	1116	709	562	392	1962	5196	2745	910	<u>768</u>	355	1341
1976-77	385	261	143	223	248	282	1137	1878	<u>1005</u>	<u>170</u>	155	218	<u>509</u>
1977-78	296	484	605	414	368	785	2397	4471	3012	836	328	426	1205
1978-79	309	236	<u>56</u>	306	555	422	1200	4019	1303	366	96	124	751
1979-80	307	182	548	243	492	812	3027	4320	1595	551	321	472	1073
1980-81	<u>16</u>	642	1129	1010	1187	1138	1902	4197	3068	1593	425	274	1383
1981-82	619	685	662	506	<u>1362</u>	1348	1781	4886	4543	1525	397	415	1561
1982-83	535	561	717	778	935	2008	2501	4977	3709	1696	668	308	1620
1983-84	339	<u>1672</u>	707	707	573	926	2148	3374	4620	1047	232	210	1375
1984-85	260	500	392	274	291	305	1883	4097	2092	261	176	274	886
1985-86	514	611	310	428	545	1351	2084	3183	1675	628	169	251	981
1986-87	488	786	573	389	360	<u>2178</u>	2972	3696	1185	404	201	90	1115
1987-88	173	322	536	320	269	512	3027	2748	1533	320	76	103	827
1988-89	207	654	368	433	<u>183</u>	554	2702	4313	1988	410	395	152	1033
MEAN	397	586	607	526	531	721	2123	4330	2956	815	257	234	1175
MEDIAN	317	561	533	450	469	565	2059	4320	2898	714	225	199	1201

PSL3A

USGS # 12395400 **ALBENI FALLS**

River: PEND O'REILLE

Drainage Area: 24200 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 90.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										59200	<u>27200</u>	14400	
1928-29	10660	10530	8872	6545	6396	8391	12090	33630	67060	35570	14560	8002	18560
1929-30	6664	6220	6683	5489	7318	8727	22230	47370	46430	26480	12790	7811	17060
1930-31	7573	7956	7600	6665	7381	9057	15190	38600	42120	21040	9859	<u>6353</u>	14980
1931-32	<u>6208</u>	6498	6165	6677	6371	14750	29400	70690	84280	48210	18670	10240	25710
1932-33	7923	10370	12710	11750	8785	10200	17040	48850	114900	71740	23700	12850	29300
1933-34	11430	23890	<u>32120</u>	<u>40010</u>	27600	24470	54830	87470	63360	27960	13560	7997	34580
1934-35	7563	13200	13710	12000	13800	13290	17650	47610	77920	43230	18420	9909	24050
1935-36	7097	6574	6282	6597	<u>4380</u>	8865	20160	73450	67030	26790	12390	7978	20670
1936-37	6757	<u>6049</u>	<u>5987</u>	<u>4271</u>	4932	<u>6622</u>	11410	34900	55690	33530	14620	8376	16140
1937-38	6974	8683	10700	11860	10130	12170	23100	57020	83320	40440	12230	10750	23980
1938-39	9642	8613	8045	9867	9811	11270	23140	65750	55330	26160	11320	8772	20700
1939-40	8574	8309	8870	8367	9422	12750	23280	43390	39370	14980	8148	7323	16060
1940-41	8497	8767	8198	10420	10830	11690	14630	21340	26990	15740	8735	9294	<u>12920</u>
1941-42	11000	13200	21700	24700	14500	12000	19300	40200	61000	36500	14800	10000	23280
1942-43	9100	10700	12500	13700	16700	13100	44000	68000	92000	65000	20400	12600	31510
1943-44	12400	11900	11000	9200	8000	8800	11800	21900	34000	19700	9200	7900	13820
1944-45	8400	8900	9200	10700	11200	12800	14400	36200	65000	32600	11200	8350	19090
1945-46	9200	10800	13000	15000	14700	16900	26800	65000	73000	34700	13900	10200	25300
1946-47	10700	13900	22200	20800	19700	22100	30200	<u>88500</u>	83500	36400	14800	11700	31260
1947-48	17300	22500	17300	18300	16800	16000	22900	75500	<u>143000</u>	46200	20500	11800	35620
1948-49	9950	11000	11100	14600	13500	15300	26100	77000	71000	25000	11700	8100	24570
1949-50	10000	12500	16100	15800	18300	22000	27300	52000	108000	<u>82000</u>	25800	12400	33570
1950-51	13200	21300	22200	28700	27200	24200	31800	78500	82000	52000	20000	13300	34570
1951-52	18500	18500	18900	16200	18700	15700	26400	74000	47100	21600	9130	9930	24580
1952-53	13280	25080	15000	14740	17790	13850	15150	37680	68400	30170	11170	13740	22960
1953-54	22380	20590	14950	12450	14650	20580	23570	65560	77800	48730	14620	12320	29090
1954-55	13060	21150	18420	18130	18930	20130	25780	35580	63430	46630	12000	14920	25670
1955-56	17680	20510	22980	21720	23270	26540	<u>56940</u>	83730	89980	30960	11540	16850	35170
1956-57	15510	23290	21250	19360	17670	19510	22640	67310	57000	18390	8717	14120	25420
1957-58	18790	25310	20380	12560	10910	20810	21380	53780	49310	18710	6902	9411	22400
1958-59	12440	18630	23360	27690	29540	20980	38060	68040	91170	37000	12830	17990	33080
1959-60	<u>31330</u>	<u>32280</u>	23840	17420	19260	27490	50590	57570	58110	27090	11170	10350	30520
1960-61	14450	19450	13480	13210	22290	28240	36900	65170	81210	19860	7831	7907	27450
1961-62	17970	22770	16260	18900	22650	20930	33200	60400	50750	22460	10210	6977	25280
1962-63	15480	18610	22400	20710	28340	23700	32140	36310	43940	26940	9438	7114	23700
1963-64	14140	17040	13290	16270	17850	24670	23140	45880	96930	37010	11990	12830	27530
1964-65	17310	22290	19680	25430	<u>31640</u>	37230	41960	72600	75080	33730	16370	16830	34150
1965-66	19750	19540	21620	18640	21000	23460	33840	42620	44050	24130	8477	17540	24540
1966-67	21530	24450	22750	19200	22410	25910	21880	45550	89500	29920	10080	13770	28870
1967-68	24550	20260	19470	20050	19470	13930	31780	34610	50740	23300	11940	18040	23970
1968-69	25260	28680	21700	21840	22760	25430	54920	70470	48560	29820	14190	19140	31910
1969-70	25390	20310	15280	13750	13790	19200	19080	47090	70630	25410	15310	17540	25250
1970-71	23430	19220	17910	18030	29160	22970	37390	79100	82560	35410	13530	15200	32790
1971-72	24140	24240	18740	19190	20320	<u>38420</u>	46010	64420	102500	34890	14730	12850	34990
1972-73	21860	20730	16880	16050	17740	22100	17000	20470	19730	14760	8171	11900	17280
1973-74	18160	20200	19710	26330	31160	32160	47130	71200	105400	50480	15290	15310	<u>37670</u>
1974-75	21620	22400	16650	15220	16260	17010	17610	44750	86680	45430	17830	17880	28290
1975-76	27730	24880	26740	21190	23740	23970	39680	77560	59450	35560	18990	15770	32970
1976-77	26010	17930	15450	16280	12320	15210	<u>5507</u>	<u>15320</u>	<u>15220</u>	<u>7295</u>	9979	13270	14180
1977-78	22540	23140	19440	18050	18980	18810	32500	49730	55190	36970	13430	17600	27210
1978-79	25260	22880	17220	15820	14260	14470	16690	53710	47450	20540	12060	15100	23000
1979-80	21010	21410	16610	14260	12630	14730	16010	46950	59160	24110	11230	16870	22910
1980-81	26460	20430	18140	18950	24870	26840	23090	54680	78940	32120	11340	13730	29110
1981-82	25510	22370	15690	14470	19070	30200	31700	61120	80930	46110	13880	11080	31050
1982-83	17230	21190	14200	13590	24490	29710	25640	41550	45380	37400	14220	18120	25210
1983-84	23300	22410	16420	18890	20550	18430	24480	32950	54700	24170	11680	16640	23670
1984-85	25110	21140	15170	15440	13000	16190	22920	39010	41280	14840	14520	<u>21570</u>	21700
1985-86	22820	26100	18130	17680	20140	30270	34250	33950	44650	16780	8568	17710	24220
1986-87	25940	21830	16030	13810	14560	13770	23490	32940	18880	12440	11180	17770	18560
1987-88	23010	18180	14060	9795	12690	17990	25890	25640	22190	11270	<u>5875</u>	10270	16400
1988-89	20400	20250	13170	10770	11210	16760	28170	46020	41190	20470	16170	20830	22150
MEAN	16670	17900	16120	15970	17010	19080	27270	52920	64780	32160	13310	12790	25450
MEDIAN	17300	20250	16260	15800	17670	18430	24480	49730	63360	30050	12310	12710	25210

ALF3H

USGS # 12395400

ALBENI FALLS

River: PEND O'REILLE

Drainage Area:

24200 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

90.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-7798	-6182	-2101	
1928-29	-124	-309	-493	-486	-59	1114	2092	12150	-941	-9420	-3653	-1155	-108
1929-30	-216	-524	642	-735	1792	14	9687	1628	-2595	-5868	-2556	-774	11
1930-31	216	-140	-592	214	179	1157	2286	9034	-5026	-5406	-1999	-446	-37
1931-32	-187	-110	307	13	1628	2397	6101	11903	-3625	-11353	-4641	-1501	68
1932-33	-191	1428	180	-755	-620	943	8080	9967	10131	-17977	-6352	-1470	77
1933-34	1575	2057	7230	-4272	-3119	3117	12849	-1140	-9253	-6833	-2836	-984	-124
1934-35	638	1874	-733	429	-536	415	4534	11915	-2998	-9127	-4330	-1811	23
1935-36	-310	-181	-307	40	43	875	12517	7105	-9316	-7463	-2521	-743	-29
1936-37	-415	-303	333	-427	251	333	3138	11050	-1227	-8117	-3316	-1307	-3
1937-38	-27	1123	478	14	-983	1577	8591	9401	-2834	-12856	-3325	28	90
1938-39	-178	-675	421	451	227	1571	6767	8266	-7375	-7540	-2215	-42	-26
1939-40	-150	-406	530	-287	672	2179	4348	5780	-7970	-4495	-803	84	-37
1940-41	381	-212	328	301	-166	355	1853	2768	-1111	-3637	-724	720	71
1941-42	424	1056	3874	-2607	-2458	-369	6742	7933	-3608	-7537	-2936	-890	-21
1942-43	164	607	345	1232	-828	1294	14217	1929	3920	-14861	-5997	-586	79
1943-44	138	-610	-410	-342	-435	339	1457	5395	-89	-5708	-970	-71	-110
1944-45	55	28	-14	628	242	799	343	11713	-1187	-9717	-2757	141	23
1945-46	246	806	650	152	337	1103	7575	8515	-6878	-9036	-2802	-268	28
1946-47	975	1087	2868	-1791	808	707	5798	11462	-8966	-9399	-2548	-584	36
1947-48	4726	-2605	-490	182	239	-1251	8197	23787	-10485	-17645	-3637	-1636	-36
1948-49	82	169	41	1199	-77	442	8269	12694	-14179	-6988	-2051	-564	-64
1949-50	928	1538	194	656	496	490	4113	12248	7958	-18853	-6266	-2269	70
1950-51	3133	-332	3023	-2295	2890	-2876	6080	14702	-7453	-9911	-5511	-357	75
1951-52	2100	101	-1035	-42	613	-1114	11528	3761	3423	1438	-887	-2029	1474
1952-53	-2289	-12908	-2922	1803	-1078	152	2940	6427	10578	278	-77	-3184	-8
1953-54	-9796	-6990	-152	-415	2126	-783	5224	12699	-3182	3415	1151	-32	273
1954-55	-232	-3697	348	-257	-234	-6236	-5910	6334	9282	-46	538	-1962	-168
1955-56	-987	-1344	2578	596	-3151	-1276	495	8178	-3933	107	155	-3714	-154
1956-57	-408	-5331	117	-966	-519	-672	150	10713	398	-46	247	-4673	-54
1957-58	-3353	-6968	-2435	184	3684	-3497	2161	13798	584	107	216	-239	342
1958-59	-1376	-2241	333	-242	-3399	222	-184	760	4283	1620	77	144	22
1959-60	-2385	-6581	0	-103	-16	754	122	-474	8485	231	15	287	22
1960-61	-3979	-6008	-29	73	567	-571	45	8276	932	-214	445	160	-17
1961-62	-3733	-11444	-57	29	3511	-3157	4829	5436	3760	795	309	-319	-24
1962-63	-3530	-2542	-387	74	-1524	207	-673	5047	3658	-662	430	48	24
1963-64	-3430	-5260	30	-414	474	-3080	-90	4360	6680	489	278	96	7
1964-65	-3961	-4775	2910	-3073	-2125	-1208	5357	1091	5401	185	46	-144	-24
1965-66	-3895	-3318	-2593	278	-146	102	-168	615	9264	155	201	-4516	-344
1966-67	-3326	-4722	-4360	1094	1585	-1689	3342	7705	4582	15	247	-3513	69
1967-68	-9610	-3461	42	28	804	11213	-6080	3908	6015	214	0	64	271
1968-69	-4495	-5209	176	468	65	0	2353	4645	2199	-446	-92	-3176	-288
1969-70	-7546	-6136	481	340	-141	-297	5218	7207	4161	632	-754	-3520	-28
1970-71	-6540	-6042	-57	2612	1056	376	1513	9542	1185	108	155	-1930	174
1971-72	-8220	-7020	608	311	640	5494	-3320	12314	713	139	-108	-2636	-62
1972-73	-6700	-4344	58	1491	-385	-1115	1436	3035	8355	627	154	-5621	-252
1973-74	-6244	-2150	503	8315	-4453	-2947	4815	1770	8038	-2356	525	-4223	154
1974-75	-8277	-4814	226	1867	-1382	586	2778	3380	8947	461	-31	-2901	73
1975-76	-7408	-4174	2568	959	219	-556	-30	8829	2194	232	-155	-2337	40
1976-77	-12016	-2413	481	1368	-48	114	3052	6884	2165	2454	61	-3115	-85
1977-78	-7259	-5830	71	-198	78	1896	3131	4259	7282	-108	355	-3155	40
1978-79	-9021	-4493	113	71	-423	524	5206	9771	1219	-108	31	-4370	-116
1979-80	-7139	-5061	0	71	106	-467	5144	11339	366	-108	-124	-3430	67
1980-81	-9619	-2902	7754	3932	151	-5670	2940	7258	-1680	826	46	-2848	27
1981-82	-7734	-5894	85	2739	9054	-4142	-545	6953	3210	-15	-15	-126	238
1982-83	-4146	-7982	507	7442	-1706	-4166	832	4588	4838	-416	338	-2902	-207
1983-84	-7599	-861	438	2064	-2222	483	-227	4363	5684	875	-247	-2713	10
1984-85	-9074	-4907	283	-863	1332	270	4358	7336	3802	492	-554	-3161	-69
1985-86	-3903	-5547	174	-521	1635	2526	-575	5146	4426	-183	15	-3427	-19
1986-87	-8407	-4196	-71	1067	-1103	3612	2947	7425	2290	-200	-31	-3287	19
1987-88	-8315	-4832	-14	-184	545	1154	5473	5324	3829	321	46	-3365	-8
1988-89	-8558	-4532	368	-524	642	-396	6986	5958	3616	-168	523	-3591	15
MEAN	-3287	-2975	419	377	88	56	3610	7314	1015	-3490	-1248	-1741	24

ALF3S

USGS # 12395400

ALBENI FALLS

River: PEND O'REILLE

Drainage Area: 24200 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 90.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-15545	-11746	-4425	
1928-29	140	-869	-1191	-1269	-138	1631	5400	25169	-4628	-17401	-7064	-2825	-249
1929-30	-818	-1225	1379	-1296	2448	379	22034	2282	-5155	-11600	-5765	-1548	36
1930-31	381	-81	-1370	174	702	2329	6060	18145	-11042	-10765	-4507	-895	-63
1931-32	-726	169	368	-354	2571	4855	13285	21906	-5809	-22353	-8494	-3519	136
1932-33	-347	3820	-71	-1922	-1699	924	13447	19982	17221	-33839	-11696	-3057	163
1933-34	5409	2060	9054	-6592	-4713	4824	28319	-951	-19832	-12899	-5947	-2444	-299
1934-35	1176	4869	-1974	414	-705	262	8958	25938	-7364	-17979	-8756	-3889	79
1935-36	-1232	-443	-511	-145	-22	1341	25382	15136	-19554	-13865	-5285	-2164	-124
1936-37	-960	-601	403	-555	335	545	6960	24387	-3483	-16771	-6755	-2858	52
1937-38	-168	2313	416	-246	-1423	2227	18196	19717	-8101	-14524	-3449	-4156	907
1938-39	-2252	-1119	263	-1535	-3276	1767	16527	14823	-11266	-8092	-4399	-3185	-124
1939-40	-2919	-1816	592	-2120	-163	4087	8863	13717	-5896	-4451	-3018	-1678	443
1940-41	-1229	-1810	-891	-3110	-3498	-489	6165	17114	353	-4787	-2920	441	468
1941-42	1471	-707	1197	-13208	-5556	-1618	15002	15483	2147	-7496	-5481	-2722	-118
1942-43	-1576	165	-1468	-4858	-6317	146	27800	5149	6536	-13606	-6581	-4523	43
1943-44	-3470	-3180	-2986	-3049	-2435	-1898	4946	19532	2267	-5795	-2667	-1996	-54
1944-45	-1632	-1705	-2889	-2228	-3117	-2351	1119	29173	-220	-9783	-3867	-1461	120
1945-46	-620	2125	-1939	-4513	-5539	-2144	16986	17288	-6394	-9054	-4773	-1583	1
1946-47	1905	1598	-1433	-7085	-4517	-812	13716	20014	-7931	-9237	-2629	-1123	230
1947-48	4591	-5791	-4018	-5328	-4730	-3268	15259	43796	-20983	-14835	-3630	-2647	-70
1948-49	-945	-1038	-3668	-7888	-2553	-951	16910	23281	-13042	-7628	-3049	-733	-96
1949-50	-1538	995	-2886	-5497	-4967	-142	8281	25156	13598	-21637	-6470	-2742	168
1950-51	4297	-798	972	-10910	-1236	-7395	12469	26521	-6558	-9751	-5455	74	186
1951-52	3655	-2582	-4665	-5365	-7253	-3694	26078	17461	12147	1583	1013	-4305	2840
1952-53	-7203	-18662	-8080	-549	-2911	-2462	9268	27469	32147	5248	673	-7635	2301
1953-54	-15676	-12051	-4976	-3707	-4094	-5563	5435	39322	12227	5839	1359	-253	1536
1954-55	-1839	-7951	-8282	-9816	-9883	-12981	-6814	23570	34167	-1048	28	-6941	-614
1955-56	-2222	-3881	-3052	-6244	-11906	-9351	2884	33330	6384	92	1075	-8195	-19
1956-57	-5167	-13794	-9572	-12184	-6303	-4674	4970	44064	9654	80	-552	-9017	-138
1957-58	-10729	-17262	-11751	-4127	1675	-7691	7552	43949	6922	-336	578	-3056	488
1958-59	-1845	-1643	-5694	-9585	-14437	-5901	2087	12879	29002	3043	445	-482	708
1959-60	-3067	-7449	-4214	-5063	-7722	-6560	-805	9953	25335	-436	366	-1666	-112
1960-61	-6026	-7433	-4891	-4004	-1909	-9058	-5965	26808	13476	-586	151	-1861	-90
1961-62	-6891	-13496	-7332	-11333	-10208	-8340	17040	19313	22813	567	434	-338	202
1962-63	-3950	-3912	-6650	-10107	-6684	-6425	-2966	25552	15649	-826	-214	672	41
1963-64	-7396	-7731	-6079	-8331	-10538	-15474	-1321	28141	27661	506	641	-147	2
1964-65	-5442	-9444	-1894	-10021	-15084	-19581	9776	18174	30041	2886	169	-430	-30
1965-66	-7084	-7428	-11024	-8359	-11490	-7384	5412	26026	20948	-28	-386	-9802	-831
1966-67	-13836	-12611	-8004	-5085	-6876	-11724	-703	33556	30406	4850	-272	-7910	184
1967-68	-14503	-6792	-9707	-9972	-1171	9189	-10349	26045	22949	1845	616	-416	647
1968-69	-5568	-8922	-7101	-7148	-10713	-9682	7774	22686	16343	1199	-5719	-10161	-1371
1969-70	-14718	-11118	-6371	-3900	-2890	-6123	-186	33837	25686	2530	-4235	-9862	236
1970-71	-14151	-9429	-7681	-4246	-519	-7031	1647	36072	16426	2597	-411	-6120	605
1971-72	-14614	-14193	-9469	-9790	-5713	2696	-8247	35153	23200	5808	1093	-4301	178
1972-73	-11890	-11160	-6799	-6178	-9493	-9942	912	27680	24371	-1557	-3244	-6141	-1085
1973-74	-11721	-3121	-2920	7444	-13397	-13284	3256	13076	38625	-1190	-1217	-6626	780
1974-75	-14276	-13319	-8239	-7571	-7681	-5673	-466	23779	34277	7265	-1020	-4849	209
1975-76	-13132	-7450	-504	-5497	-9608	-9963	3548	31595	14464	1635	-199	-4214	92
1976-77	-17366	-9755	-7925	-8916	-4984	-6478	12873	21909	11203	1020	-4232	-5066	-1489
1977-78	-13982	-12944	-2322	-7645	-8268	1872	11707	25698	24908	2376	643	-4248	1526
1978-79	-16078	-14060	-10489	-8998	-4006	863	7936	34490	13804	-2227	-4283	-8147	-917
1979-80	-14548	-14580	-7271	-6216	-3511	-1866	20934	36328	5632	-492	-1274	-5944	612
1980-81	-16160	-6874	5162	302	-6841	-9517	8843	27581	3409	631	-251	-6313	56
1981-82	-17025	-12825	-4956	-5559	5688	-6792	-1380	23666	25026	1714	-385	-1932	374
1982-83	-6828	-11783	-3757	-261	-9812	-6074	1439	20441	18332	-196	-497	-9050	-600
1983-84	-14371	-6135	-6652	-3357	-8957	-3083	4415	21519	22510	3404	-2455	-6804	14
1984-85	-15917	-9910	-7756	-9533	-6293	-6852	12433	38140	14079	-2639	-6513	-6540	-596
1985-86	-6407	-6576	-6540	-8054	-4044	6219	6130	24064	10770	-376	-1363	-9129	429
1986-87	-14947	-9538	-6658	-6912	-6669	5271	14940	27105	7751	188	-3841	-12401	-432
1987-88	-18221	-12784	-7185	-4204	-7180	-8343	9222	25775	14685	-784	-2074	-6441	-1459
1988-89	-12802	-9907	-5377	-3381	-5555	-3555	19223	27388	20818	-1257	-5114	-11122	788
MEAN	-6475	-6124	-4087	-5190	-5046	-3619	8371	24200	10210	-4367	-2821	-4240	113

ALF3SS

USGS # 12395400

ALBENI FALLS

River: PEND O'REILLE

Drainage Area: 24200 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 90.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										43660	15450	9975	
1928-29	10800	9656	7681	5277	6258	10020	17490	58790	62430	18170	7496	5177	18310
1929-30	5846	<u>4994</u>	8062	4193	9766	9106	44260	49650	41270	14880	7030	6262	17090
1930-31	7954	7875	6231	6839	8082	11390	21250	56740	31070	10270	5352	5458	14920
1931-32	5482	6667	6534	6323	8942	19600	42690	92600	78470	25850	10180	6722	25840
1932-33	7576	14190	12640	9827	7086	11120	30490	68830	132200	37900	12010	9793	29460
1933-34	16830	<u>25950</u>	<u>41170</u>	33420	22880	29300	<u>83150</u>	86520	43530	15060	7611	5553	34280
1934-35	8739	18070	11740	12410	13090	13550	26610	73540	70560	25250	9664	6021	24130
1935-36	5865	6131	<u>5771</u>	6452	<u>4357</u>	10210	45550	88590	47480	12920	7108	5814	20550
1936-37	5797	5448	6390	<u>3716</u>	5268	7167	18370	59290	52210	16760	7864	5517	16190
1937-38	6807	11000	11110	11610	8710	14400	41300	76740	75220	25910	8785	6591	24890
1938-39	7390	7494	8308	8332	6535	13040	39680	80570	44060	18070	6920	5587	20570
1939-40	5655	6493	9462	6248	9259	16830	32140	57100	33470	10530	5130	5645	16500
1940-41	7269	6956	7308	7312	7327	11200	20790	38450	27340	10950	5815	9735	13390
1941-42	12470	12490	22900	11490	8944	10380	34300	55680	63150	29000	9319	7278	23170
1942-43	7524	10860	11030	8842	10380	13250	71800	73150	98540	51390	13820	8077	31560
1943-44	8930	8720	8014	6151	5565	<u>6902</u>	16750	41430	36270	13910	6533	5904	13770
1944-45	6768	7195	6311	8472	8083	10450	<u>15520</u>	65370	64780	22820	7333	6889	19210
1945-46	8580	12920	11060	10490	9161	14760	<u>43790</u>	82290	66610	25650	9127	8617	25300
1946-47	12610	15500	20770	13710	15180	21290	43920	108500	75570	27160	12170	10580	31490
1947-48	21890	16710	13280	12970	12070	12730	38160	<u>119300</u>	122000	31360	16870	9153	35550
1948-49	9005	9962	7432	6712	10950	14350	43010	100300	57960	17370	8651	7367	24470
1949-50	8462	13490	13210	10300	13330	21860	35580	77160	121600	<u>60360</u>	<u>19330</u>	9658	33740
1950-51	17500	20500	23170	17790	25960	16810	44270	105000	75440	42250	14540	13370	34750
1951-52	22150	15920	14240	10840	11450	12010	52480	91460	59250	23180	10140	5625	27420
1952-53	6081	6421	6920	14190	14880	11390	24420	65150	100500	35420	11840	6101	25270
1953-54	6705	8543	9969	8741	10560	15020	29010	104900	90030	54570	15980	12070	30620
1954-55	11230	13200	10140	8310	9042	7148	18970	59150	97600	45580	12030	7976	25060
1955-56	15460	16630	19930	15470	11360	17180	59820	117100	96360	31050	12610	8655	35150
1956-57	10340	9496	11670	7178	11370	14830	27610	111400	66650	18470	8164	5107	25280
1957-58	8061	8045	8627	8434	12590	13120	28930	97730	56230	18380	7480	6354	22890
1958-59	10600	16990	17670	18100	15100	15080	40150	80920	120200	40040	13270	17510	33790
1959-60	<u>28270</u>	24830	19620	12360	11540	20930	49780	67520	83440	26650	11530	8680	30410
1960-61	8426	12020	8586	9207	20380	19180	30930	91980	94690	19280	7983	6046	27360
1961-62	11080	9274	8924	7564	12450	12590	50240	79720	73560	23030	10640	6639	25480
1962-63	11530	14700	15750	10600	21660	17270	29170	61860	59590	26110	9225	7786	23750
1963-64	6739	9309	7216	7940	7308	9194	21820	74020	124600	37510	12630	12680	27530
1964-65	11870	12850	17780	15410	16560	17650	51730	90770	105100	36620	16540	16400	34120
1965-66	12660	12110	10600	10280	9510	16080	39260	68640	64990	24110	8091	7733	23710
1966-67	7693	11840	14750	14120	15540	14180	21170	79100	119900	34770	9810	5860	29060
1967-68	10040	13470	9761	10080	18300	23120	21430	60660	73690	25140	12560	<u>17630</u>	24620
1968-69	19690	19760	14600	14690	12050	15740	62700	93160	64900	31010	8471	8982	30540
1969-70	10680	9189	8910	9849	10900	13080	18900	80930	96320	27940	11080	7678	25490
1970-71	9281	9795	10230	13780	<u>28640</u>	15940	39030	115200	98990	38010	13120	9077	33400
1971-72	9528	10040	9273	9404	14610	<u>41110</u>	37770	99580	125700	40700	15830	8548	35170
1972-73	9972	9574	10080	9877	8250	12160	17920	48150	44100	13200	4927	5763	16190
1973-74	6440	17080	16790	<u>33770</u>	17760	18880	50390	84280	<u>144100</u>	49290	14070	8680	<u>38450</u>
1974-75	7340	9081	8406	7648	8583	11340	17140	68530	121000	52690	16810	13030	28500
1975-76	14600	17430	26240	15690	14140	14010	43220	109200	73910	37190	18790	11550	33060
1976-77	8644	8171	7529	7361	7335	8735	18380	<u>37230</u>	<u>26430</u>	<u>8316</u>	5746	8200	<u>12690</u>
1977-78	8556	10190	17120	10410	10710	20680	44210	75430	80100	39350	14080	13350	28740
1978-79	9180	8820	6727	6821	10250	15330	24630	88200	61250	18310	7778	6950	22080
1979-80	6459	6826	9339	8049	9115	12870	36950	83280	64800	23620	9958	10930	23520
1980-81	10300	13550	23300	19260	18030	17320	31930	82260	82350	32750	11090	7415	29170
1981-82	8481	9548	10730	8913	24750	23410	30320	84780	108000	47830	13500	9144	31420
1982-83	10400	9407	10450	13330	14670	23640	27080	62000	63710	37210	13720	9070	24610
1983-84	8929	16270	9768	15540	11590	15350	28900	54470	77210	27580	9220	9840	23690
1984-85	9192	11230	7411	5905	6706	9335	35360	77150	55360	12200	8004	15030	21100
1985-86	16410	19520	11590	9624	16100	36490	40380	58020	55420	16410	7204	8585	24650
1986-87	10990	12290	9374	6894	7888	19040	38430	60050	26630	12630	7342	5369	18130
1987-88	<u>4792</u>	5392	6879	5591	5511	9651	35110	51420	36880	10490	<u>3801</u>	<u>3833</u>	14940
1988-89	7595	10340	7795	7394	5659	13210	47390	73410	62010	19210	11060	9705	22940
MEAN	10200	11780	12040	10780	11970	15460	35640	77120	74990	27800	10490	8554	25560
MEDIAN	8930	10340	10080	9624	10900	14350	35360	77150	70560	25880	9884	8027	25270

ALF3A

USGS # 12396485

BOX CANYON

River: PEND O'REILLE

Drainage Area: 24900 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 34.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										59500	<u>27400</u>	14550	
1928-29	10850	10750	8985	6675	6515	8520	12250	33500	68100	37400	15250	8140	18950
1929-30	6745	6285	6705	5520	7350	8785	21850	47750	47150	27300	13000	7895	17240
1930-31	7655	8005	7655	6715	7530	9245	15300	38150	43050	21800	10030	<u>6495</u>	15160
1931-32	<u>6250</u>	6550	6220	6735	6530	15100	30350	71300	85900	50100	19250	10400	26250
1932-33	8125	10550	13450	12550	9490	10400	17900	49550	115500	74800	24750	13000	30070
1933-34	11520	24200	<u>32350</u>	<u>41480</u>	29030	25910	55280	<u>89040</u>	64980	29210	13840	8126	35440
1934-35	7654	13400	13990	12220	14130	13700	18560	48200	79200	44960	19120	10100	24630
1935-36	7438	6970	6588	6890	<u>4482</u>	9116	20050	73660	68550	28010	12490	8099	21070
1936-37	6844	<u>6164</u>	<u>6104</u>	<u>4449</u>	5064	<u>6834</u>	11600	34640	56580	35040	14940	8568	16450
1937-38	7116	8678	10780	12400	10450	12880	24240	58030	84880	42550	12640	10890	24660
1938-39	9694	8700	8080	9919	9806	11240	23590	65720	56240	26750	11480	8836	20890
1939-40	8726	8458	8898	8454	9601	13330	24440	43940	40870	15620	8222	7460	16500
1940-41	8606	8964	8494	10610	11080	12300	15160	22060	28050	16160	8824	9362	<u>13300</u>
1941-42	11610	13980	22630	25680	15400	12310	19810	41360	62760	38380	15440	10540	24200
1942-43	9181	10820	12670	13370	17300	13400	45160	68910	92460	67510	21510	12900	32130
1943-44	12760	12180	11220	9498	8497	8925	11990	22320	34800	20520	9422	8020	14180
1944-45	8528	8957	9052	10780	11780	13240	14920	37860	66110	34370	11780	8549	19670
1945-46	9408	11060	13280	15400	15080	17480	28480	67560	74880	36560	14510	10540	26220
1946-47	10760	14080	22530	21190	20500	23060	31300	88780	85220	37910	15250	12080	31940
1947-48	17520	23520	17720	18850	17120	16580	24060	76080	<u>146800</u>	49890	21900	12220	36800
1948-49	10260	11100	11050	14270	14020	16160	27740	78220	73820	26520	12420	8510	25380
1949-50	10390	12940	16630	15620	18780	23260	29300	53270	108400	<u>85840</u>	27060	13100	34610
1950-51	13440	22300	22940	29240	28680	25900	33850	79420	84680	54520	21260	13860	35870
1951-52	18840	19060	19380	16640	19520	16740	28250	77060	48590	22570	9378	10290	25550
1952-53	12430	25790	15840	15050	18590	14390	16070	40300	70500	32530	11760	13500	23860
1953-54	23510	21070	15200	12790	15300	21830	24810	65770	81650	53110	14890	13140	30330
1954-55	12810	21880	18880	18390	19250	19990	27750	36070	62260	47870	12350	14360	25980
1955-56	17620	20060	23310	21600	22840	25950	<u>58300</u>	84370	91960	32450	11670	16360	35490
1956-57	15320	24330	22490	20160	18940	21090	24720	68500	60060	19280	8797	14240	26510
1957-58	19470	25810	22000	12870	12300	22580	23530	54810	52120	19450	6728	9339	23460
1958-59	11790	18950	23810	28350	30780	21480	39070	68510	91530	39050	11870	16120	33380
1959-60	<u>31000</u>	<u>32970</u>	25130	17730	19760	27960	51510	58130	57610	28270	11450	10560	30990
1960-61	14170	20010	14390	13590	24410	29110	39080	65440	83330	20910	7986	8623	28350
1961-62	18410	23560	16910	19740	24210	22450	34690	60530	53690	22880	10540	7649	26250
1962-63	15690	18320	22680	20710	28060	23700	33480	36550	44330	26730	9349	7034	23830
1963-64	14370	17870	13630	16680	18230	25840	24990	47830	98610	39680	12480	12720	28520
1964-65	16530	22130	19880	24710	31260	37610	44120	75870	77160	34560	15930	15940	34610
1965-66	19970	19690	21980	18880	20550	23520	35570	43930	43840	25160	8834	16930	24900
1966-67	20920	23400	22550	18930	22240	27050	22740	46430	90650	31090	9977	13090	29050
1967-68	24860	20530	19650	19910	19580	15450	33280	35700	50130	24310	11330	18200	24370
1968-69	23970	28480	21850	21530	23030	25450	57230	73670	48530	30930	14480	19090	32360
1969-70	25130	21200	15090	14160	14290	20160	20310	48220	72010	25060	13990	17620	25620
1970-71	24620	20190	18440	19640	30010	25220	38830	78690	83800	36430	13240	14560	33610
1971-72	24170	24850	19400	19360	20580	<u>40630</u>	48290	64720	104900	36770	15220	13750	36010
1972-73	21850	21230	17350	17420	18620	23510	17580	21660	20750	15480	8679	12180	18020
1973-74	18140	20990	21940	29830	<u>33810</u>	34910	50120	71770	103200	55230	15970	15690	<u>39260</u>
1974-75	22250	23690	17580	16410	17680	18180	19560	47780	86700	49000	17290	17910	29520
1975-76	27960	25730	27400	21380	23990	24690	42560	77980	60580	35350	18070	15190	33430
1976-77	26270	18120	14960	16360	12470	15230	<u>6476</u>	<u>15890</u>	<u>15090</u>	<u>7395</u>	10060	13370	14340
1977-78	22320	23070	18280	17620	18690	18220	33440	50080	53990	36780	14810	17190	27050
1978-79	24080	22960	17330	15880	14330	14750	17100	55860	49920	20890	11410	14590	23300
1979-80	20240	20910	16430	13260	12420	14660	16590	48770	60330	24410	10600	16300	22910
1980-81	25950	19910	18400	18830	24810	27200	23120	52970	77200	32010	11140	12960	28690
1981-82	25030	22980	15650	14550	18430	31250	32100	61190	79870	48370	14550	10990	31290
1982-83	17960	21910	14880	14240	24990	31060	26610	41780	45950	37860	14270	17790	25760
1983-84	24090	23010	14630	19200	21280	19740	26590	34810	55800	26040	11600	16680	24410
1984-85	25120	22120	15450	16350	13180	16630	24410	38910	41890	14550	13760	20960	21960
1985-86	22440	26500	15890	17880	20340	31090	35690	35110	45640	16240	7352	16540	24180
1986-87	25300	23240	17070	14440	15610	15560	24410	32620	18980	12120	11020	17330	18980
1987-88	22700	18630	14690	9995	12320	18750	26900	27730	21630	11560	<u>6336</u>	10210	16780
1988-89	20350	21010	13820	11790	11660	17460	28910	45970	41400	21290	16450	<u>21400</u>	22650
MEAN	16700	18270	16430	16320	17490	19820	28460	53790	65820	33470	13510	12780	26020
MEDIAN	17520	20190	16430	16350	18230	18750	26590	50080	62760	31550	12480	12980	25620

BOX3H

USGS # 12396485

BOX CANYON

River: PEND O'REILLE

Drainage Area: 24900 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 34.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55									170				14
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 12396485

BOX CANYON

River: PIND O'REILLY

Drainage Area: 24900 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 34.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										15545	-11746	-4425	
1928-29	140	-869	-1191	-1269	-138	1631	5400	25169	4628	-17401	-7064	-2825	-249
1929-30	-818	-1225	1379	-1296	2448	379	22034	2282	-5155	-11600	-5765	-1548	36
1930-31	381	-81	-1370	174	702	2329	6060	18145	-11042	-10765	-4507	-895	-63
1931-32	-726	169	368	-354	2571	4855	13285	21906	-5809	-22353	-8494	-3519	136
1932-33	-347	3820	-71	-1922	-1699	924	13447	19982	17221	-33839	-11696	-3057	163
1933-34	5409	2060	9054	-6592	-4713	4824	28319	-951	-19832	-12899	-5947	-2444	-299
1934-35	1176	4869	-1974	414	-705	262	8958	25938	-7364	-17979	-8756	-3889	79
1935-36	-1232	-443	-511	-145	-22	1341	25382	15136	-19554	-13865	-5285	-2164	-124
1936-37	-960	-601	403	-555	335	545	6960	24387	-3483	-16771	-6755	-2858	52
1937-38	-168	2313	416	-246	-1423	2227	18196	19717	-8101	-14524	-3449	-4156	907
1938-39	-2252	-1119	263	-1535	-3276	1767	16527	14823	-11266	-8092	-4399	-3185	-124
1939-40	-2919	-1816	592	-2120	-163	4087	8863	13717	-5896	-4451	-3018	-1678	443
1940-41	-1229	-1810	-891	-3110	-3498	-489	6165	17114	353	-4787	-2920	441	468
1941-42	1471	-707	1197	-13208	-5556	-1618	15002	15483	2147	-7496	-5481	-2722	-118
1942-43	-1576	165	-1468	-4858	-6317	146	27800	5149	6536	-13606	-6581	-4523	43
1943-44	-3470	-3180	-2986	-3049	-2435	-1898	4946	19532	2267	-5795	-2667	-1996	-54
1944-45	-1632	-1705	-2889	-2228	-3117	-2351	1119	29173	-220	-9783	-3867	-1461	120
1945-46	-620	2125	-1939	-4513	-5539	-2144	16986	17288	-6394	-9054	-4773	-1583	1
1946-47	1905	1598	-1433	-7085	-4517	-812	13716	20014	-7931	-9237	-2629	-1123	230
1947-48	4591	-5791	-4018	-5328	-4730	-3268	15259	43796	-20983	-14835	-3630	-2647	-70
1948-49	-945	-1038	-3668	-7888	-2553	-951	16910	23281	-13042	-7628	-3049	-733	-96
1949-50	-1538	995	-2886	-5497	-4967	-142	8281	25156	13598	-21637	-6470	-2742	168
1950-51	4297	-798	972	-10910	-1236	-7395	12469	26521	-6558	-9751	-5455	74	186
1951-52	3655	-2582	-4665	-5365	-7253	-3694	26078	17461	12147	1583	1013	-4305	2840
1952-53	-7203	-18662	-8080	-549	-2911	-2462	9268	27469	32147	5248	673	-7635	2301
1953-54	-15676	-12051	-4976	-3707	-4094	-5563	5435	39322	12227	5839	1359	-253	1536
1954-55	-1839	-7951	-8282	-9816	-9883	-12981	-6814	23570	34337	-1048	28	-6941	-600
1955-56	-2222	-3881	-3052	-6244	-11906	-9351	2884	33330	6384	92	1075	-8195	-19
1956-57	-5167	-13794	-9572	-12184	-6303	-4674	4970	44064	9654	80	-552	-9017	-138
1957-58	-10729	-17262	-11751	-4127	1675	-7691	7552	43949	6922	-336	578	-3056	488
1958-59	-1845	-1643	-5694	-9585	-14437	-5901	2087	12879	29002	3043	445	-482	708
1959-60	-3067	-7449	-4214	-5063	-7722	-6560	-805	9953	25335	-436	366	-1666	-112
1960-61	-6026	-7433	-4891	-4004	-1909	-9058	-5965	26808	13476	-586	151	-1861	-90
1961-62	-6891	-13496	-7332	-11333	-10208	-8340	17040	19313	22813	567	434	-338	202
1962-63	-3950	-3912	-6650	-10107	-6684	-6425	-2966	25552	15649	-826	-214	672	41
1963-64	-7396	-7731	-6079	-8331	-10538	-15474	-1321	28141	27661	506	641	-147	2
1964-65	-5442	-9444	-1894	-10021	-15084	-19581	9776	18174	30041	2886	169	-430	-30
1965-66	-7084	-7428	-11024	-8359	-11490	-7384	5412	26026	20948	-28	-386	-9802	-831
1966-67	-13836	-12611	-8004	-5085	-6876	-11724	-703	33556	30406	4850	-272	-7910	184
1967-68	-14503	-6792	-9707	-9972	-1171	9189	-10349	26045	22949	1845	616	-416	647
1968-69	-5568	-8922	-7101	-7148	-10713	-9682	7774	22686	16343	1199	-5719	-10161	-1371
1969-70	-14718	-11118	-6371	-3900	-2890	-6123	-186	33837	25686	2530	-4235	-9862	236
1970-71	-14151	-9429	-7681	-4246	-519	-7031	1647	36072	16426	2597	-411	-6120	605
1971-72	-14614	-14193	-9469	-9790	-5713	2696	-8247	35153	23200	5808	1093	-4301	178
1972-73	-11890	-11160	-6799	-6178	-9493	-9942	912	27680	24371	-1557	-3244	-6141	-1085
1973-74	-11721	-3121	-2920	7444	-13397	-13284	3256	13076	38625	-1190	-1217	-6626	780
1974-75	-14276	-13319	-8239	-7571	-7681	-5673	-466	23779	34277	7265	-1020	-4849	209
1975-76	-13132	-7450	-504	-5497	-9608	-9963	3548	31595	14464	1635	-199	-4214	92
1976-77	-17366	-9755	-7925	-8916	-4984	-6478	12873	21909	11203	1020	-4232	-5066	-1489
1977-78	-13982	-12944	-2322	-7645	-8268	1872	11707	25698	24908	2376	643	-4248	1526
1978-79	-16078	-14060	-10489	-8998	-4006	863	7936	34490	13804	-2227	-4283	-8147	-917
1979-80	-14548	-14580	-7271	-6216	-3511	-1866	20934	36328	5632	-492	-1274	-5944	612
1980-81	-16160	-6874	5162	302	-6841	-9517	8843	27581	3409	631	-251	-6313	56
1981-82	-17025	-12825	-4956	-5559	5688	-6792	-1380	23666	25026	1714	-385	-1932	374
1982-83	-6828	-11783	-3757	-261	-9812	-6074	1439	20441	18332	-196	-497	-9050	-600
1983-84	-14371	-6135	-6652	-3357	-8957	-3083	4415	21519	22510	3404	-2455	-6804	14
1984-85	-15917	-9910	-7756	-9533	-6293	-6852	12433	38140	14079	-2639	-6513	-6540	-596
1985-86	-6407	-6576	-6540	-8054	-4044	6219	6130	24064	10770	-376	-1363	-9129	429
1986-87	-14947	-9538	-6658	-6912	-6669	5271	14940	27105	7751	188	-3841	-12401	-432
1987-88	-18221	-12784	-7185	-4204	-7180	-8343	9222	25775	14685	-784	-2074	-6441	-1459
1988-89	-12802	-9907	-5377	-3381	-5555	-3555	19223	27388	20818	-1257	-5114	-11122	788
MEAN	-6475	-6124	-4087	-5190	-5046	-3619	8371	24200	10220	-4367	-2821	-4240	113

BOX3SS

USGS # 12396485

BOX CANYON

River: PEND O'REILLE

Drainage Area:

24900 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

34.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										43960	15650	10120	
1928-29	10990	9881	7794	5406	6377	10150	17650	58670	63470	20000	8186	5315	18700
1929-30	5927	<u>5060</u>	8084	4224	9798	9184	43880	50030	41990	15700	7235	6347	17270
1930-31	8036	7924	6285	8889	8232	11570	21360	56290	32010	11040	5523	5600	15100
1931-32	5524	6719	6588	6381	9101	19950	43640	93210	80090	27750	10760	6881	26390
1932-33	7778	14370	13380	10630	7791	11320	31350	69530	132700	40960	13050	9943	30240
1933-34	16930	<u>26260</u>	<u>41400</u>	34890	24320	30730	<u>83600</u>	88090	45150	16310	7893	5682	35140
1934-35	8830	18270	12020	12830	13420	13980	27520	74140	71840	26980	10360	6211	24710
1935-36	6206	6527	<u>6077</u>	6745	<u>4460</u>	10460	45430	88800	49000	14150	7205	5935	20940
1936-37	5884	5563	6507	<u>3894</u>	5399	7379	18560	59030	53100	18270	8185	5710	16500
1937-38	6948	10990	11200	12150	9027	15110	42440	77750	76780	28030	9191	6734	25570
1938-39	7442	7581	8343	8384	6530	13010	40120	80540	44970	18660	7081	5651	20770
1939-40	5807	6642	9490	8334	9438	17420	33300	57660	34970	11170	5204	5782	16940
1940-41	7377	7154	7603	7500	7582	11810	21320	39170	28400	11370	5904	9803	13770
1941-42	13080	13270	23830	12470	9844	10890	34810	56840	64910	30880	9959	7818	24080
1942-43	7605	10980	11200	8512	10980	13550	72960	74060	99000	53900	14930	8377	32170
1943-44	9290	9000	8234	6449	6062	7027	16940	41850	37070	14730	6755	6024	14130
1944-45	6896	7252	6163	8552	8663	10890	<u>16040</u>	67030	65890	24590	7913	7088	19790
1945-46	8788	13180	11340	10890	9541	15340	45470	84850	68490	27510	9737	8957	26220
1946-47	12670	15680	21100	14100	15980	22250	45020	108800	77290	28670	12620	10960	32170
1947-48	22110	17730	13700	13520	12390	13310	39320	<u>119900</u>	125800	35050	18270	9573	36730
1948-49	9315	10080	7382	6382	11470	15210	44650	101500	60780	18890	9371	7777	25280
1949-50	8852	13930	13740	10120	13810	23120	37580	78430	122000	<u>64200</u>	<u>20590</u>	10360	34780
1950-51	17740	21500	23910	18330	27440	18510	46320	105900	78120	44770	15800	13930	36050
1951-52	22490	16480	14720	11280	12270	13050	54330	94520	60740	24150	10390	5985	28390
1952-53	5226	7128	7762	14500	15680	11930	25340	67770	102600	37780	12430	5862	26160
1953-54	7837	9019	10220	9080	11210	16260	30250	105100	93880	58950	16250	12890	31860
1954-55	10970	13930	10800	8578	9364	<u>7009</u>	20930	59640	96590	46820	12380	7415	25380
1955-56	15400	16180	20260	15350	10930	16600	61180	117700	98350	32540	12740	8170	35470
1956-57	10150	10540	12920	7981	12640	16420	29690	112600	69710	19360	8245	5220	26370
1957-58	8745	8545	10250	8744	13970	14890	31080	98760	59040	19110	7307	6283	23950
1958-59	9942	17310	18110	18770	16340	15580	41180	81390	120500	42090	12310	15640	34080
1959-60	<u>27930</u>	25520	20910	12670	12030	21400	50700	68080	82940	27830	11810	8897	30880
1960-61	8140	12580	9497	9585	22510	20060	33110	92240	96810	20330	8137	6762	28260
1961-62	11520	10070	9580	8409	14010	14110	51730	79840	76510	23450	10980	7311	26450
1962-63	11740	14400	16030	10600	21380	17280	30520	62100	59980	25910	9136	7706	23870
1963-64	6972	10140	7547	8350	7696	10360	23670	75970	126300	40190	13120	12580	28530
1964-65	11090	12690	17990	14690	16180	18030	53900	94050	107200	37440	16100	15510	34580
1965-66	12880	12260	10960	10520	9060	16140	40980	69950	64790	25130	8448	7128	24060
1966-67	7084	10790	14550	13850	15360	15330	22030	79990	121100	35940	9706	5180	29240
1967-68	10350	13740	9942	9934	18410	24630	22930	61750	73080	26150	11940	<u>17790</u>	25020
1968-69	18400	19560	14750	14380	12320	15770	65000	96350	64870	32130	8758	8932	30990
1969-70	10410	10090	8716	10260	11400	14040	20120	82060	97700	27590	9757	7758	25850
1970-71	10470	10760	10750	15390	<u>29490</u>	18190	40480	114800	100200	39030	12830	8440	34210
1971-72	9554	10660	9928	9571	14870	<u>43320</u>	40040	99880	128100	42580	16310	9444	36190
1972-73	9962	10070	10550	11240	9128	13570	18500	49340	45120	13920	5435	6040	16940
1973-74	6421	17870	19020	<u>37270</u>	20420	21630	53380	84840	<u>141900</u>	54040	14750	9063	<u>40040</u>
1974-75	7975	10370	9341	8844	9997	12510	19090	71560	121000	56270	16270	13060	29730
1975-76	14830	18280	26890	15890	14380	14720	46110	109600	75050	36980	17870	10970	33520
1976-77	8905	8365	7039	7448	7488	8748	19350	<u>37800</u>	<u>26290</u>	<u>8415</u>	5832	8301	<u>12850</u>
1977-78	8337	10120	15960	9974	10420	20090	45150	75780	78900	39160	15450	12940	28580
1978-79	8000	8900	6837	6886	10320	15620	25040	90350	63720	18670	7122	6446	22380
1979-80	5688	6333	9162	7046	8910	12800	37520	85100	65960	23920	9329	10350	23520
1980-81	9792	13030	23560	19130	17970	17680	31960	80550	80610	32640	10890	6649	28750
1981-82	8004	10160	10700	8988	24120	24460	30720	84850	104900	50090	14160	9057	31670
1982-83	11130	10130	11120	13980	15180	24990	28050	62220	64280	37670	13770	8737	25160
1983-84	9716	16870	7982	15840	12320	16660	31010	56330	78310	29450	9145	9876	24420
1984-85	9205	12210	7693	6812	6889	9777	36840	77050	55970	11920	7250	14420	21360
1985-86	16030	19930	9345	9824	16290	37310	41820	59170	56410	15860	5989	7408	24610
1986-87	10360	13700	10410	7531	8941	20830	39350	59720	26730	12310	7180	4932	18550
1987-88	<u>4482</u>	5846	7503	5792	5140	10410	36120	53510	36310	10770	<u>4262</u>	<u>3773</u>	15330
1988-89	7543	11110	8446	8406	6106	13900	48130	73360	62220	20030	11330	10280	23440
MEAN	10220	12150	12340	11130	12440	16200	36830	77990	76040	29100	10690	8545	26130
MEDIAN	9205	10790	10410	9824	11210	15210	36840	77750	71840	27550	9858	7798	25850

BOX3A

USGS # 12398555

BOUNDARY

River: PEND O'REILLE

Drainage Area: 25200 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 17

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										59830	27630	14680	
1928-29	11020	10950	9105	6800	6630	8650	12420	33400	69100	39210	15930	8280	19330
1929-30	6834	6352	8730	5553	7381	8839	21510	48100	47910	28140	13220	7985	17420
1930-31	7735	8054	7712	6774	7679	9426	15440	37700	43970	22610	10180	<u>6643</u>	15350
1931-32	<u>6286</u>	6600	6265	6785	6694	15480	31290	71920	87470	51950	19800	10600	26790
1932-33	8335	10660	14190	13380	10210	10620	18820	50320	115700	77900	25770	13170	30830
1933-34	11620	24510	<u>32580</u>	<u>42960</u>	30460	27060	55740	<u>90600</u>	66610	30460	14120	8254	36270
1934-35	7744	13600	14270	12450	14460	14110	19470	48800	80470	46700	19820	10300	25210
1935-36	7778	7366	6895	7183	<u>4585</u>	9367	19940	73870	70070	29230	12590	8220	21460
1936-37	6930	<u>6278</u>	<u>6222</u>	<u>4627</u>	5195	<u>7047</u>	11800	34380	57460	36540	15260	8759	16760
1937-38	7258	8674	10870	12950	10770	13590	25390	59040	86430	44660	13060	11030	25350
1938-39	9745	8788	8116	9971	9801	11220	24040	65700	57160	27340	11630	8899	21090
1939-40	8877	8608	8925	8542	9780	13910	25600	44500	42370	16270	8296	7598	16930
1940-41	8715	9161	8789	10800	11350	12900	15680	22770	29110	16570	8914	9431	<u>13680</u>
1941-42	12220	14750	23560	26650	16310	12620	20320	42530	64510	40250	16080	11070	25120
1942-43	9262	10930	12840	13040	17890	13700	46310	69820	92920	70020	22620	13200	32750
1943-44	13120	12470	11430	9795	8993	9050	12180	22750	35600	21330	9645	8140	14540
1944-45	8656	9014	8904	10850	12360	13670	15440	39510	67220	36140	12360	8748	20250
1945-46	9617	11310	13560	15810	15450	18050	30160	70110	76770	38410	15120	10890	27140
1946-47	10830	14260	22860	21580	21300	24030	32390	89070	86930	39420	15700	12450	32620
1947-48	17750	24530	18150	19400	17440	17150	25210	76660	<u>150500</u>	53580	23300	12640	37970
1948-49	10580	11210	11000	13940	14550	17020	29380	79430	76630	28030	13150	8921	26190
1949-50	10780	13380	17160	15430	19250	24510	31310	54540	108900	<u>89680</u>	<u>28310</u>	13790	35650
1950-51	13680	23310	23670	29790	30150	27590	35900	80330	87370	57050	22510	14410	37170
1951-52	19190	19620	19870	17070	20340	17780	30100	80120	50080	23540	9626	10650	26520
1952-53	13210	26260	16730	16130	19900	16280	17400	40220	73380	33170	12630	13770	24880
1953-54	24390	21720	16260	14000	16290	22890	25820	67690	83920	53970	15300	13510	31380
1954-55	13510	22490	19340	18920	20050	20610	29310	37890	65330	50150	13350	15250	27180
1955-56	19090	21290	24900	23750	24660	28420	<u>61360</u>	87930	95180	33490	12240	17380	37420
1956-57	15800	24590	22690	20400	19180	21490	25280	68970	61020	20030	9679	15020	27030
1957-58	20020	26680	22570	13760	13830	24610	25510	55960	53230	21110	8618	10710	24760
1958-59	12440	19940	24590	29240	31480	22980	40250	70660	94480	40280	13440	17550	34710
1959-60	<u>31490</u>	<u>33630</u>	26690	19370	21630	29080	53190	60940	60410	30160	13620	11220	32600
1960-61	15210	20820	15270	14520	24980	29590	39690	68000	86110	22130	8225	8789	29380
1961-62	18950	23560	17820	20250	24900	23130	35650	62590	55230	23930	11590	8257	27130
1962-63	17390	20140	23530	21360	28460	24870	34670	38250	46020	28050	9793	7462	24950
1963-64	14780	18410	14400	17200	18560	26090	25570	48080	100600	39350	13050	13320	29060
1964-65	16920	22760	20410	25110	31720	37800	44020	75960	76710	34750	16060	16000	34820
1965-66	20390	20040	22260	19130	20870	23830	35600	43490	43660	25540	8775	17050	25040
1966-67	21470	24130	23200	19400	22840	27810	23300	46890	92940	31110	8583	13430	29550
1967-68	25270	21180	20030	20320	20090	15720	32850	36010	50760	24800	11550	18000	24670
1968-69	25250	29460	22350	21460	23180	25750	57870	75190	49150	31640	14620	19170	32940
1969-70	25500	21410	15270	13800	14570	19960	20370	47430	73110	25600	14460	17870	25790
1970-71	24990	20440	18480	18840	30210	25280	38180	80190	84630	36120	13670	14380	33750
1971-72	23930	24580	18980	19030	20640	<u>39550</u>	47890	65420	106300	36070	14840	13270	35820
1972-73	22050	21640	17560	17440	18670	23740	17280	22330	21020	15680	8841	12080	18190
1973-74	18270	22070	22210	28870	<u>33840</u>	34550	49830	73730	106900	55810	15870	15720	<u>39760</u>
1974-75	22280	23730	17710	16690	17710	17990	19720	47280	89790	48250	17890	18210	29780
1975-76	27790	26070	27370	22060	24560	24330	40650	80010	60610	36570	19450	15740	33800
1976-77	26460	18480	15090	16270	12770	15530	<u>6574</u>	<u>15160</u>	<u>15130</u>	<u>7243</u>	10940	13850	14480
1977-78	22480	23490	19930	18250	18830	19000	34350	50210	55340	37450	13540	17750	27570
1978-79	25060	24060	17580	15750	15000	15360	17430	53370	47790	21220	11920	14950	23330
1979-80	20850	21950	16720	14060	12680	15050	17580	51670	62570	25950	11180	16620	23900
1980-81	26620	20730	19200	19570	25840	28500	24070	57090	84220	34570	11750	13040	30420
1981-82	25900	23480	15920	14630	19110	33230	33730	66400	87080	50190	14660	11050	33000
1982-83	18710	23130	15420	14830	25520	33330	28080	45200	49320	40010	15180	18350	27240
1983-84	24760	24370	16060	20330	22280	20860	28360	37190	60170	27870	12180	17350	25930
1984-85	26220	23210	15980	16680	13840	17260	25870	42180	45020	15570	14520	<u>21820</u>	23190
1985-86	24000	28140	17040	18450	20880	32980	38580	37760	48170	17300	8470	17150	25700
1986-87	26140	23820	17090	13770	15060	15870	25240	34740	18880	11960	10780	17270	19230
1987-88	23180	18920	14810	10110	12630	18720	27620	28590	22090	11420	<u>6170</u>	10000	17020
1988-89	20380	21280	13840	11880	11860	18240	30050	47630	41680	21160	16340	21320	23000
MEAN	17140	18790	16870	16680	18000	20450	29260	54990	67530	34590	14010	13100	26730
MEDIAN	17750	21180	17040	16270	18560	19000	27620	51670	65330	32400	13280	13240	26520

BDY3H

USGS # 12398555

BOUNDARY

River: PEND O'REILLE

Drainage Area: 25200 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 17

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67										250	1300		132
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 12398555

BOUNDARY

River: PEND O'REILLE

Drainage Area: 25200 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 17

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-15545	-11746	-4425	
1928-29	140	-869	-1191	-1269	-138	1631	5400	25169	-4628	-17401	-7064	-2825	-249
1929-30	-818	-1225	1379	-1296	2448	379	22034	2282	-5155	-11600	-5765	-1548	36
1930-31	381	-81	-1370	174	702	2329	6060	18145	-11042	-10765	-4507	-895	-63
1931-32	-726	169	368	-354	2571	4855	13285	21906	-5809	-22353	-8494	-3519	136
1932-33	-347	3820	-71	-1922	-1699	924	13447	19982	17221	-33839	-11696	-3057	163
1933-34	5409	2060	9054	-6592	-4713	4824	28319	-951	-19832	-12899	-5947	-2444	-299
1934-35	1176	4869	-1974	414	-705	262	8958	25938	-7364	-17979	-8756	-3889	79
1935-36	-1232	-443	-511	-145	-22	1341	25382	15136	-19554	-13865	-5285	-2164	-124
1936-37	-960	-601	403	-555	335	545	6960	24387	-3483	-16771	-6755	-2858	52
1937-38	-168	2313	416	-246	-1423	2227	18196	19717	-8101	-14524	-3449	-4156	907
1938-39	-2252	-1119	263	-1535	-3276	1767	16527	14823	-11266	-8092	-4399	-3185	-124
1939-40	-2919	-1816	592	-2120	-163	4087	8863	13717	-5896	-4451	-3018	-1678	443
1940-41	-1229	-1810	-891	-3110	-3498	-489	6165	17114	353	-4787	-2920	441	468
1941-42	1471	-707	1197	-13208	-5556	-1618	15002	15483	2147	-7496	-5481	-2722	-118
1942-43	-1576	165	-1468	-4858	-6317	146	27800	5149	6536	-13606	-6581	-4523	43
1943-44	-3470	-3180	-2986	-3049	-2435	-1898	4946	19532	2267	-5795	-2667	-1996	-54
1944-45	-1632	-1705	-2889	-2228	-3117	-2351	1119	29173	-220	-9783	-3867	-1461	120
1945-46	-620	2125	-1939	-4513	-5539	-2144	16986	17288	-6394	-9054	-4773	-1583	1
1946-47	1905	1598	-1433	-7085	-4517	-812	13716	20014	-7931	-9237	-2629	-1123	230
1947-48	4591	-5791	-4018	-5328	-4730	-3268	15259	43796	-20983	-14835	-3630	-2647	-70
1948-49	-945	-1038	-3668	-7888	-2553	-951	16910	23281	-13042	-7628	-3049	-733	-96
1949-50	-1538	995	-2886	-5497	-4967	-142	8281	25156	13598	-21637	-6470	-2742	168
1950-51	4297	-798	972	-10910	-1236	-7395	12469	26521	-6558	-9751	-5455	74	186
1951-52	3655	-2582	-4665	-5365	-7253	-3694	26078	17461	12147	1583	1013	-4305	2840
1952-53	-7203	-18662	-8080	-549	-2911	-2462	9268	27469	32147	5248	673	-7635	2301
1953-54	-15676	-12051	-4976	-3707	-4094	-5563	5435	39322	12227	5839	1359	-253	1536
1954-55	-1839	-7951	-8282	-9816	-9883	-12981	-6814	23570	34337	-1048	28	-6941	-600
1955-56	-2222	-3881	-3052	-6244	-11906	-9351	2884	33330	6384	92	1075	-8195	-19
1956-57	-5167	-13794	-9572	-12184	-6303	-4674	4970	44064	9654	80	-552	-9017	-138
1957-58	-10729	-17262	-11751	-4127	1675	-7691	7552	43949	6922	-336	578	-3056	488
1958-59	-1845	-1643	-5694	-9585	-14437	-5901	2087	12879	29002	3043	445	-482	708
1959-60	-3067	-7449	-4214	-5063	-7722	-6560	-805	9953	25335	-436	366	-1666	-112
1960-61	-6026	-7433	-4891	-4004	-1909	-9058	-5965	26808	13476	-586	151	-1861	-90
1961-62	-6891	-13496	-7332	-11333	-10208	-8340	17040	19313	22813	567	434	-338	202
1962-63	-3950	-3912	-6650	-10107	-6684	-6425	-2966	25552	15649	-826	-214	672	41
1963-64	-7396	-7731	-6079	-8331	-10538	-15474	-1321	28141	27661	506	641	-147	2
1964-65	-5442	-9444	-1894	-10021	-15084	-19581	9776	18174	30041	2886	169	-430	-30
1965-66	-7084	-7428	-11024	-8359	-11490	-7384	5412	26026	20948	-28	-386	-9802	-831
1966-67	-13836	-12611	-8004	-5085	-6876	-11724	-703	33556	30406	5100	1028	-7910	315
1967-68	-14503	-6792	-9707	-9972	-1171	9189	-10349	26045	22949	1845	616	-416	647
1968-69	-5568	-8922	-7101	-7148	-10713	-9682	7774	22686	16343	1199	-5719	-10161	-1371
1969-70	-14718	-11118	-6371	-3900	-2890	-6123	-186	33837	25686	2530	-4235	-9862	236
1970-71	-14151	-9429	-7681	-4246	-519	-7031	1647	36072	16426	2597	-411	-6120	605
1971-72	-14614	-14193	-9469	-9790	-5713	2696	-8247	35153	23200	5808	1093	-4301	178
1972-73	-11890	-11160	-6799	-6178	-9493	-9942	912	27680	24371	-1557	-3244	-6141	-1085
1973-74	-11721	-3121	-2920	7444	-13397	-13284	3256	13076	38625	-1190	-1217	-6626	780
1974-75	-14276	-13319	-8239	-7571	-7681	-5673	-466	23779	34277	7265	-1020	-4849	209
1975-76	-13132	-7450	-504	-5497	-9608	-9963	3548	31595	14464	1635	-199	-4214	92
1976-77	-17366	-9755	-7925	-8916	-4984	-6478	12873	21909	11203	1020	-4232	-5066	-1489
1977-78	-13982	-12944	-2322	-7645	-8268	1872	11707	25698	24908	2376	643	-4248	1526
1978-79	-16078	-14060	-10489	-8998	-4006	863	7936	34490	13804	-2227	-4283	-8147	-917
1979-80	-14548	-14580	-7271	-6216	-3511	-1866	20934	36328	5632	-492	-1274	-5944	612
1980-81	-16160	-6874	5162	302	-6841	-9517	8843	27581	3409	631	-251	-6313	56
1981-82	-17025	-12825	-4956	-5559	5688	-6792	-1380	23666	25026	1714	-385	-1932	374
1982-83	-6828	-11783	-3757	-261	-9812	-6074	1439	20441	18332	-196	-497	-9050	-600
1983-84	-14371	-6135	-6652	-3357	-8957	-3083	4415	21519	22510	3404	-2455	-6804	14
1984-85	-15917	-9910	-7756	-9533	-6293	-6852	12433	38140	14079	-2639	-6513	-6540	-596
1985-86	-6407	-6576	-6540	-8054	-4044	6219	6130	24064	10770	-376	-1363	-9129	429
1986-87	-14947	-9538	-6658	-6912	-6669	5271	14940	27105	7751	188	-3841	-12401	-432
1987-88	-18221	-12784	-7185	-4204	-7180	-8343	9222	25775	14685	-784	-2074	-6441	-1459
1988-89	-12802	-9907	-5377	-3381	-5555	-3555	19223	27388	20818	-1257	-5114	-11122	788
MEAN	-6475	-6124	-4087	-5190	-5046	-3619	8371	24200	10220	-4363	-2800	-4240	116

BDY3SS

USGS # 12398555

BOUNDARY

River: PEND O'REILLE

Drainage Area: 25200 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 17

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										44280	15880	10260	
1928-29	11160	10080	7914	5531	6492	10280	17820	58570	64470	21810	8868	5455	19080
1929-30	6016	<u>5127</u>	8110	4257	9829	9218	43540	50390	42760	16540	7452	6436	17460
1930-31	8116	7974	6342	6948	8380	11760	21500	55840	32920	11840	5670	5748	15290
1931-32	5559	6769	6634	6431	9265	20340	44580	93830	81660	29600	11310	7077	26930
1932-33	7987	14480	14120	11460	8511	11540	32270	70300	133000	44060	14070	10110	30990
1933-34	17020	<u>26570</u>	<u>41630</u>	<u>36370</u>	25740	31880	<u>84060</u>	89650	46780	17560	8173	5810	35970
1934-35	8920	18470	12290	12870	13760	14370	28430	74730	73110	28720	11070	6406	25290
1935-36	6546	6923	6384	7038	<u>4563</u>	10710	45320	89010	50510	15360	7302	6056	21340
1936-37	5970	5677	6624	<u>4072</u>	5530	7593	18760	58770	53980	19770	8506	5900	16810
1937-38	7090	10990	11290	12700	9343	15820	43590	78760	78330	30140	9615	6878	26250
1938-39	7492	7669	8379	8436	6525	12990	40560	80530	45900	19250	7229	5714	20960
1939-40	5959	6791	9517	6422	9617	17990	34470	58210	36480	11820	5278	5920	17380
1940-41	7486	7351	7899	7690	7852	12410	21840	39880	29460	11780	5994	9871	14150
1941-42	13690	14040	24760	13440	10760	11000	35320	58010	66650	32750	10600	8351	25000
1942-43	7686	11100	11370	8184	11570	13850	74110	74970	99460	56410	16040	8674	32790
1943-44	9650	9287	8440	6745	6558	<u>7153</u>	17120	42280	37870	15530	6978	6144	14490
1944-45	7024	7309	<u>6015</u>	8626	9248	11320	<u>16560</u>	86680	67000	26360	8490	7287	20370
1945-46	8996	13430	11630	11300	9911	15910	47140	87400	70380	29360	10350	9304	27150
1946-47	12730	15860	21420	14490	16790	23210	46110	109100	79000	30180	13070	11330	32850
1947-48	22340	18740	14130	14070	12710	13880	40470	120500	129500	38750	19670	9990	37900
1948-49	9639	10170	7335	6047	12000	16070	46290	102700	63580	20400	10100	8188	26090
1949-50	9247	14370	14280	9932	14290	24360	39590	79690	122500	<u>68040</u>	<u>21840</u>	11050	35820
1950-51	17980	22510	24650	18880	28910	20200	48370	106800	80810	47300	17050	14480	37360
1951-52	22850	17040	15200	11700	13090	14090	56180	97580	62230	25120	10640	6340	29360
1952-53	6005	7601	8649	15580	16990	13810	26670	67690	105500	38420	13300	6132	27180
1953-54	8715	9673	11290	10290	12200	17330	31250	107000	96150	59810	16660	13260	32920
1954-55	11670	14540	11060	9100	10160	7625	22500	61460	99670	49100	13380	8310	26580
1955-56	16870	17410	21850	17510	12760	19070	64240	<u>121300</u>	101600	33590	13310	9185	37400
1956-57	10630	10800	13110	8216	12880	16810	30250	113000	70670	20110	9127	6007	26890
1957-58	9294	9418	10820	9628	15510	16920	33060	99910	60160	20770	9196	7650	25250
1958-59	10590	18290	18900	19650	17040	17080	42330	83540	123500	43320	13890	17070	35420
1959-60	<u>28420</u>	26180	22480	14310	13910	22520	52390	70890	85740	29730	13980	9556	32490
1960-61	9185	13380	10370	10510	23070	20530	33730	94810	99580	21540	8377	6928	29290
1961-62	12060	10070	10480	8916	14690	14790	52690	81900	78050	24500	12020	7919	27340
1962-63	13440	16230	16880	11250	21780	18440	31700	63800	61670	27220	9579	8134	24990
1963-64	7380	10680	8318	8869	8017	10610	24250	76220	128200	39850	13690	13170	29060
1964-65	11470	13320	18520	15090	16630	18220	53790	94140	106700	37630	16230	15570	34790
1965-66	13310	12610	11240	10770	9378	16450	41010	69520	64610	25510	8389	7251	24210
1966-67	7638	11520	15200	14310	15970	16090	22590	80450	123300	36210	9612	5517	29870
1967-68	10760	14390	10320	10340	18920	24910	22500	62050	73710	26650	12170	<u>17590</u>	25320
1968-69	19680	20530	15250	14320	12460	16070	65640	97870	65500	32830	8900	9009	31570
1969-70	10790	10290	8903	9898	11680	13840	20180	81260	98800	28130	10220	8006	26030
1970-71	10840	11010	10800	14590	<u>29690</u>	18250	39830	116300	101100	38710	13260	8259	34360
1971-72	9318	10380	9515	9236	14920	<u>42250</u>	39640	100600	129500	41880	15930	8973	36000
1972-73	10160	10480	10760	11260	9172	13800	18190	50010	45390	14120	5596	5937	17110
1973-74	6550	18950	19290	36320	20440	21270	53090	86810	<u>145500</u>	54620	14650	9096	<u>40540</u>
1974-75	8007	10410	9470	9116	10030	12320	19250	71060	124100	55520	16870	13360	29990
1975-76	14660	18620	26870	16570	14950	14370	44190	111600	75070	38200	19250	11530	33890
1976-77	9092	8725	7162	7351	7781	9057	19450	<u>37060</u>	<u>26330</u>	<u>8263</u>	6708	8787	<u>12990</u>
1977-78	8498	10550	17610	10610	10560	20870	46060	75910	80250	39820	14180	13500	29090
1978-79	8984	9997	7088	6754	10990	16220	25370	87860	61600	18990	7638	6806	22410
1979-80	6307	7373	9445	7846	9165	13180	38510	88000	68200	25460	9903	10670	24520
1980-81	10460	13860	24370	19880	19000	18990	32910	84670	87630	35210	11490	6725	30470
1981-82	8878	10660	10970	9070	24800	26440	32350	90070	112100	51900	14280	9117	33370
1982-83	11880	11340	11670	14570	15710	27260	29520	65640	67650	39810	14680	9304	26640
1983-84	10390	18240	9413	16970	13320	17780	32780	58710	82680	31270	9725	10540	25940
1984-85	10300	13300	8227	7146	7547	10410	38300	80320	59100	12930	8009	15280	22600
1985-86	17590	21570	10500	10400	16840	39200	44710	61830	58940	16930	7106	8021	26130
1986-87	11190	14280	10430	6854	8389	21140	40180	61850	26630	12150	6941	4872	18800
1987-88	<u>4963</u>	6139	7629	5905	5451	10380	36840	54370	36770	10630	<u>4096</u>	<u>3561</u>	15560
1988-89	7579	11370	8463	8504	6304	14680	49280	75010	62500	19910	11220	10200	23790
MEAN	10670	12670	12780	11490	12960	16840	37630	79190	77750	30230	11210	8864	26850
MEDIAN	9318	11100	10800	10290	12000	16070	38300	79690	73110	29040	10470	8285	26640

BDY3A

USGS # 12399100

SEVEN MILE

River: PEND O'REILLE

Drainage Area: 25700 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										61950	27900	14950	
1928-29	11240	11240	9320	6940	6760	8830	12740	35650	71930	39660	16020	8380	19930
1929-30	6930	6460	6860	5620	7490	9010	23280	49790	49860	28640	13340	8090	17990
1930-31	7850	8190	7870	6920	7820	9650	16370	41380	45990	23390	10370	<u>6880</u>	16090
1931-32	<u>6460</u>	6830	6530	7000	6870	15970	35220	77660	91510	52750	20080	10840	28170
1932-33	8590	11240	14890	13880	10500	11030	21500	55950	121900	79960	26130	13470	32490
1933-34	12060	25470	<u>33390</u>	<u>43510</u>	30990	28310	62950	<u>94760</u>	67930	30740	14260	8414	37750
1934-35	7984	14560	14970	13000	15390	14810	21370	53670	84550	48940	20340	10590	26710
1935-36	8008	7656	7165	7423	<u>4705</u>	9547	22720	77710	71140	29570	12750	8378	22270
1936-37	7065	<u>6401</u>	<u>6353</u>	<u>4722</u>	5276	<u>7181</u>	12390	37370	59700	37160	15490	8917	17390
1937-38	7474	9138	11250	13330	11070	14170	27800	63850	89560	45230	13240	11150	26480
1938-39	9974	9072	8356	10240	9938	11670	26790	69590	59220	28130	11850	9074	22050
1939-40	9110	8899	9504	8866	10060	14700	28060	48440	44060	16610	8467	7762	17870
1940-41	9024	9465	9049	11060	11620	13930	17910	25980	30850	17380	9217	10500	<u>14660</u>
1941-42	13420	15740	25050	27140	16680	12980	22250	46090	68010	41580	16510	11300	26440
1942-43	9457	11150	13040	13210	18080	13960	49380	73150	96360	71370	22960	13380	33820
1943-44	13360	12720	11730	10020	9178	9225	13420	25430	37180	21760	9844	8351	15190
1944-45	8871	9376	9149	11050	12580	14000	16390	44620	70770	36820	12570	8975	21280
1945-46	9844	11750	13890	16090	15690	18550	33040	76690	80290	39540	15410	11200	28540
1946-47	11010	14470	23140	21830	21520	24460	34630	92880	88850	40060	15990	12690	33510
1947-48	18320	25300	18790	19830	17730	17470	26890	84330	<u>156400</u>	54820	25190	13520	39830
1948-49	11230	11720	11420	14290	14830	17350	31720	85200	78610	28540	13370	9072	27320
1949-50	10990	13820	17640	15710	19510	24920	32630	58620	113700	<u>90990</u>	<u>28690</u>	13970	36830
1950-51	14470	24110	24540	30440	30980	28110	38010	85380	90080	58000	22740	14620	38480
1951-52	19750	19990	20340	17350	20560	18030	32810	84740	52710	24430	9877	10800	27640
1952-53	13320	26370	16830	16330	20160	16560	18520	44560	77600	34510	13020	14050	25940
1953-54	24660	22180	16580	14290	16590	23340	27010	73490	88480	56010	15740	13900	32760
1954-55	13850	23190	19810	19240	20300	20830	30230	40980	71160	52520	13900	15530	28460
1955-56	19650	21950	25320	24110	24970	28770	<u>63770</u>	93450	98530	34330	12540	17590	38700
1956-57	16070	24800	22880	20550	19350	21790	26600	75430	63190	20480	9934	15210	28050
1957-58	20250	26890	22760	13940	14230	25230	26950	61310	54950	21530	8809	10900	25690
1958-59	12680	20190	24850	29580	31730	23270	42040	74810	99140	41200	13700	18340	35900
1959-60	<u>32490</u>	<u>34320</u>	27160	19660	21910	29700	55270	64770	64620	31100	13850	11440	33840
1960-61	15510	21140	15460	14780	25520	30150	41580	73100	90690	22820	8435	8979	30610
1961-62	19220	23780	18000	20400	25080	23340	37660	65800	58090	24590	11860	8460	28000
1962-63	17700	20510	24020	21700	28930	25350	36030	42100	48750	28850	10060	7660	25920
1963-64	14960	18710	14660	17430	18750	26290	26550	52050	105600	40450	13440	13660	30160
1964-65	17290	23140	20690	25340	31950	38180	46030	79580	79640	35400	16330	16240	35790
1965-66	20580	20360	22510	19340	21050	24230	37370	47700	46630	26380	9008	17190	26020
1966-67	21630	24350	23520	19670	23170	28210	24170	50860	98440	32050	8795	13550	30660
1967-68	25490	21510	20230	20560	20480	16680	33690	39840	55070	25640	11970	18450	25760
1968-69	25820	30170	22870	21760	23430	26100	60120	80450	52270	32840	14900	19390	34200
1969-70	25860	21910	15570	14030	14790	20280	21130	50830	76030	26160	14660	18050	26620
1970-71	25180	20640	18670	19100	30790	25660	39780	85700	88420	37610	14010	14670	34990
1971-72	24180	24850	19190	19220	20840	<u>40730</u>	49480	71440	111000	37850	15230	13540	37250
1972-73	22330	21900	17750	17670	18860	24150	18450	26180	23600	16300	9019	12250	19040
1973-74	18630	22770	22790	29660	<u>34390</u>	35170	52040	77960	114100	57750	16310	15930	<u>41410</u>
1974-75	22420	23980	17940	16870	17870	18230	20510	51300	94640	49640	18320	18590	30870
1975-76	28160	26970	28450	22530	24910	24660	42290	85070	64060	37970	20330	16270	35170
1976-77	26740	18700	15270	16440	12950	15750	<u>7814</u>	<u>17450</u>	<u>16660</u>	<u>7606</u>	11150	14150	15080
1977-78	22770	23870	20270	18530	19080	19690	36340	54280	59560	38660	13970	18420	28800
1978-79	25490	24350	17790	15930	15170	15820	18470	57440	49560	21820	12140	15160	24140
1979-80	21070	22130	17060	14310	12960	15680	20990	56270	64100	26480	11520	16980	24960
1980-81	26900	21190	19820	20330	26520	29310	25450	61390	87840	36410	12220	13340	31710
1981-82	26380	24060	16390	14960	19720	33960	34910	70700	91730	51790	15240	11510	34330
1982-83	19290	23660	15860	15260	26160	34710	30080	50000	53120	41900	15840	18830	28720
1983-84	25140	25890	16610	20850	22680	21580	30100	40200	65270	29250	12490	17590	27250
1984-85	26430	23450	16170	16840	13980	17470	27320	46520	47500	15940	14750	<u>22130</u>	24060
1985-86	24440	28830	17260	18710	21150	33760	40120	41100	50110	18160	8758	17420	26610
1986-87	26540	24330	17460	14010	15290	17110	27430	38440	20140	12440	11020	17430	20150
1987-88	23330	19080	15040	10250	12770	19050	30230	32040	24210	11890	<u>6342</u>	10190	17860
1988-89	20690	21820	14120	12150	12070	18590	32290	51630	44390	21660	16660	21530	24000
MEAN	17470	19220	17240	16980	18300	20940	31130	59260	70820	35580	14340	13380	27840
MEDIAN	18320	21510	17260	16440	18750	19690	30080	56270	68010	33590	13570	13530	27640

SEV3H

USGS # 12399100

SEVEN MILE

River: PEND O'REILLE

Drainage Area: 25700 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
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1957-58													0
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1960-61													0
1961-62													0
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1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80		1143											94
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 12399100

SEVEN MILE

River: PEND O'REILLE

Drainage Area: 25700 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-15545	-11746	-4425	
1928-29	140	-869	-1191	-1269	-138	1631	5400	25169	-4628	-17401	-7064	-2825	-249
1929-30	-818	-1225	1379	-1296	2448	379	22034	2282	-5155	-11600	-5765	-1548	36
1930-31	381	-81	-1370	174	702	2329	6060	18145	-11042	-10765	-4507	-895	-63
1931-32	-726	169	368	-354	2571	4855	13285	21906	-5809	-22353	-8494	-3519	136
1932-33	-347	3820	-71	-1922	-1699	924	13447	19982	17221	-33839	-11696	-3057	163
1933-34	5409	2060	9054	-6592	-4713	4824	28319	-951	-19832	-12899	-5947	-2444	-299
1934-35	1176	4869	-1974	414	-705	262	8958	25938	-7364	-17979	-8756	-3889	79
1935-36	-1232	-443	-511	-145	-22	1341	25382	15136	-19554	-13865	-5285	-2164	-124
1936-37	-960	-601	403	-555	335	545	6960	24387	-3483	-16771	-6755	-2858	52
1937-38	-168	2313	416	-246	-1423	2227	18196	19717	-8101	-14524	-3449	-4156	907
1938-39	-2252	-1119	263	-1535	-3276	1767	16527	14823	-11266	-8092	-4399	-3185	-124
1939-40	-2919	-1816	592	-2120	-163	4087	8863	13717	-5896	-4451	-3018	-1678	443
1940-41	-1229	-1810	-891	-3110	-3498	-489	6165	17114	353	-4787	-2920	441	468
1941-42	1471	-707	1197	-13208	-5556	-1618	15002	15483	2147	-7496	-5481	-2722	-118
1942-43	-1576	165	-1468	-4858	-6317	146	27800	5149	6536	-13606	-6581	-4523	43
1943-44	-3470	-3180	-2986	-3049	-2435	-1898	4946	19532	2267	-5795	-2667	-1996	-54
1944-45	-1632	-1705	-2889	-2228	-3117	-2351	1119	29173	-220	-9783	-3867	-1461	120
1945-46	-620	2125	-1939	-4513	-5539	-2144	16986	17288	-6394	-9054	-4773	-1583	1
1946-47	1905	1598	-1433	-7085	-4517	-812	13716	20014	-7931	-9237	-2629	-1123	230
1947-48	4591	-5791	-4018	-5328	-4730	-3268	15259	43796	-20983	-14835	-3630	-2647	-70
1948-49	-945	-1038	-3668	-7888	-2553	-951	16910	23281	-13042	-7628	-3049	-733	-96
1949-50	-1538	995	-2886	-5497	-4967	-142	8281	25156	13598	-21637	-6470	-2742	168
1950-51	4297	-798	972	-10910	-1236	-7395	12469	26521	-6558	-9751	-5455	74	186
1951-52	3655	-2582	-4665	-5365	-7253	-3694	26078	17461	12147	1583	1013	-4305	2840
1952-53	-7203	-18662	-8080	-549	-2911	-2462	9268	27469	32147	5248	673	-7635	2301
1953-54	-15676	-12051	-4976	-3707	-4094	-5563	5435	39322	12227	5839	1359	-253	1536
1954-55	-1839	-7951	-8282	-9816	-9883	-12981	-6814	23570	34337	-1048	28	-6941	-600
1955-56	-2222	-3881	-3052	-6244	-11906	-9351	2884	33330	6384	92	1075	-8195	-19
1956-57	-5167	-13794	-9572	-12184	-6303	-4674	4970	44064	9654	80	-552	-9017	-138
1957-58	-10729	-17262	-11751	-4127	1675	-7691	7552	43949	6922	-336	578	-3056	488
1958-59	-1845	-1643	-5694	-9585	-14437	-5901	2087	12879	29002	3043	445	-482	708
1959-60	-3067	-7449	-4214	-5063	-7722	-6560	-805	9953	25335	-436	366	-1666	-112
1960-61	-6026	-7433	-4891	-4004	-1909	-9058	-5965	26808	13476	-586	151	-1861	-90
1961-62	-6891	-13496	-7332	-11333	-10208	-8340	17040	19313	22813	567	434	-338	202
1962-63	-3950	-3912	-6650	-10107	-6684	-6425	-2966	25552	15649	-826	-214	672	41
1963-64	-7396	-7731	-6079	-8331	-10538	-15474	-1321	28141	27661	506	641	-147	2
1964-65	-5442	-9444	-1894	-10021	-15084	-19581	9776	18174	30041	2886	169	-430	-30
1965-66	-7084	-7428	-11024	-8359	-11490	-7384	5412	26026	20948	-28	-386	-9802	-831
1966-67	-13836	-12611	-8004	-5085	-6876	-11724	-703	33556	30406	5100	1028	-7910	315
1967-68	-14503	-6792	-9707	-9972	-1171	9189	-10349	26045	22949	1845	616	-416	647
1968-69	-5568	-8922	-7101	-7148	-10713	-9682	7774	22686	16343	1199	-5719	-10161	-1371
1969-70	-14718	-11118	-6371	-3900	-2890	-6123	-186	33837	25686	2530	-4235	-9862	236
1970-71	-14151	-9429	-7681	-4246	-519	-7031	1647	36072	16426	2597	-411	-6120	605
1971-72	-14614	-14193	-9469	-9790	-5713	2696	-8247	35153	23200	5808	1093	-4301	178
1972-73	-11890	-11160	-6799	-6178	-9493	-9942	912	27680	24371	-1557	-3244	-6141	-1085
1973-74	-11721	-3121	-2920	7444	-13397	-13284	3256	13076	38625	-1190	-1217	-6626	780
1974-75	-14276	-13319	-8239	-7571	-7681	-5673	-466	23779	34277	7265	-1020	-4849	209
1975-76	-13132	-7450	-504	-5497	-9608	-9963	3548	31595	14464	1635	-199	-4214	92
1976-77	-17366	-9755	-7925	-8916	-4984	-6478	12873	21909	11203	1020	-4232	-5066	-1489
1977-78	-13982	-12944	-2322	-7645	-8268	1872	11707	25698	24908	2376	643	-4248	1526
1978-79	-16078	-14060	-10489	-8998	-4006	863	7936	34490	13804	-2227	-4283	-8147	-917
1979-80	-14548	-13437	-7271	-6216	-3511	-1866	20934	36328	5632	-492	-1274	-5944	706
1980-81	-16160	-6874	5162	302	-6841	-9517	8843	27581	3409	631	-251	-6313	56
1981-82	-17025	-12825	-4956	-5559	5688	-6792	-1380	23666	25026	1714	-385	-1932	374
1982-83	-6828	-11783	-3757	-261	-9812	-6074	1439	20441	18332	-196	-497	-9050	-600
1983-84	-14371	-6135	-6652	-3357	-8957	-3083	4415	21519	22510	3404	-2455	-6804	14
1984-85	-15917	-9910	-7756	-9533	-6293	-6852	12433	38140	14079	-2639	-6513	-6540	-596
1985-86	-6407	-6576	-6540	-8054	-4044	6219	6130	24064	10770	-376	-1363	-9129	429
1986-87	-14947	-9538	-6658	-6912	-6669	5271	14940	27105	7751	188	-3841	-12401	-432
1987-88	-18221	-12784	-7185	-4204	-7180	-8343	9222	25775	14685	-784	-2074	-6441	-1459
1988-89	-12802	-9907	-5377	-3381	-5555	-3555	19223	27388	20818	-1257	-5114	-11122	788
MEAN	-6475	-6105	-4087	-5190	-5046	-3619	8371	24200	10220	-4363	-2800	-4240	117

SEV3SS

USGS # 12399100

SEVEN MILE

River: PEND O'REILLE

Drainage Area: 25700 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										46410	16150	10520	
1928-29	11380	10370	8129	5671	6622	10460	18140	60820	67300	22260	8956	5555	19680
1929-30	6112	<u>5235</u>	8239	4324	9938	9389	45310	52070	44700	17040	7575	6542	18030
1930-31	8231	8109	6500	7094	8522	11980	22430	59520	34950	12630	5863	5985	16020
1931-32	5734	6999	6898	6646	9441	20820	48510	99570	85700	30400	11590	7321	28310
1932-33	8243	15060	14820	11960	8801	11950	34950	75930	139100	46120	14430	10410	32660
1933-34	17470	<u>27530</u>	<u>42440</u>	36920	26280	33130	<u>91270</u>	93810	48100	17840	8313	5970	37450
1934-35	9160	19430	13000	13410	14680	15070	30330	79810	77190	30960	11580	6701	26790
1935-36	6776	7213	6654	7278	<u>4683</u>	10890	48100	92850	51590	15710	7465	6214	22150
1936-37	6105	5800	6756	<u>4167</u>	<u>5611</u>	7726	19350	61760	56220	20390	8735	6059	17440
1937-38	7306	11450	11670	13080	9647	16400	46000	83570	81460	30710	9791	6994	27380
1938-39	7722	7953	8619	8705	6662	13440	43320	84410	47950	20040	7451	5889	21920
1939-40	6191	7083	10100	6746	9897	18790	36920	62160	38160	12160	5449	6084	18320
1940-41	7795	7655	8158	7950	8122	13440	24070	43090	31200	12590	6297	10940	15130
1941-42	14890	15030	26250	13930	11120	11360	37250	61570	70160	34080	11030	8578	26330
1942-43	7881	11310	11570	8352	11760	14110	77180	78300	102900	57760	16380	8857	33870
1943-44	9890	9540	8744	6971	6743	<u>7327</u>	18370	44960	39450	15970	7177	6355	15130
1944-45	7239	7671	<u>6260</u>	8822	9463	11650	<u>17510</u>	73790	70550	27040	8703	7514	21400
1945-46	9224	13870	11950	11580	10150	16410	50030	93980	73900	30490	10640	9617	28540
1946-47	12920	16070	21710	14740	17000	23650	48350	112900	80920	30820	13360	11570	33740
1947-48	22910	19510	14770	14500	13000	14200	42150	<u>128100</u>	135400	39980	21560	10870	39760
1948-49	10280	10680	7752	6402	12280	16400	48630	108500	65570	20910	10320	8339	27230
1949-50	9452	14810	14750	10210	14540	24780	40910	83780	127300	<u>69350</u>	<u>22220</u>	11230	37000
1950-51	18770	23310	25510	19530	29740	20720	50480	111900	83520	48250	17280	14690	38670
1951-52	23400	17410	15680	11990	13310	14340	58890	102200	64860	26010	10890	6495	30480
1952-53	6117	7708	8750	15780	17250	14100	27790	72030	109700	39760	13690	6415	28250
1953-54	8984	10130	11600	10580	12500	17780	32450	112800	100700	61850	17100	13650	34300
1954-55	12010	15240	11530	9424	10420	7849	23420	64550	51470	13930	13930	8589	27860
1955-56	17430	18070	22270	17870	13060	19420	66650	126800	104900	34420	13620	9395	38680
1956-57	10900	11010	13310	8366	13050	17120	31570	119500	72840	20560	9382	6193	27910
1957-58	9521	9628	11010	9813	15900	17540	34500	105300	61870	21190	9387	7844	26180
1958-59	10840	18550	19160	19990	17290	17370	44130	87690	128100	44240	14150	17860	36610
1959-60	<u>29420</u>	26870	22950	14600	14190	23140	54460	74720	89950	30660	14220	9774	33730
1960-61	9484	13710	10570	10780	23610	21090	35610	99910	104200	22230	8586	7118	30520
1961-62	12330	10280	10670	9067	14870	15000	54700	85110	80900	25160	12290	8122	28210
1962-63	13750	16600	17370	11590	22250	18920	33080	67650	64400	28020	9846	8332	25960
1963-64	7564	10980	8581	9099	8212	10820	25230	80190	133300	40960	14080	13510	30160
1964-65	11850	13700	18800	15320	16870	18600	55810	97750	109700	38290	16500	15810	35760
1965-66	13500	12930	11490	10980	9560	16850	42780	73730	67580	26350	8622	7388	25190
1966-67	7794	11740	15520	14580	16290	16490	23470	84420	128800	37150	9823	5640	30980
1967-68	10990	14720	10520	10590	19310	25870	23340	65880	78020	27490	12590	<u>18030</u>	26410
1968-69	20250	21250	15770	14610	12720	16420	67890	103100	68610	34040	9181	9229	32830
1969-70	11140	10790	9199	10130	11900	14160	20940	84670	101700	28690	10420	8188	26860
1970-71	11030	11210	10990	14850	<u>30270</u>	18630	41430	121800	104800	40210	13600	8550	35590
1971-72	9566	10660	9721	9430	15130	<u>43430</u>	41230	106600	134200	43660	16320	9239	37430
1972-73	10440	10740	10950	11490	9367	14210	19360	53860	47970	14740	5775	6109	17950
1973-74	6909	19650	19870	<u>37100</u>	20990	21890	55300	91040	<u>152700</u>	56560	15090	9304	<u>42190</u>
1974-75	8144	10660	9701	9299	10190	12580	20040	75080	128900	56910	17300	13740	31080
1975-76	15030	19520	27950	17030	15300	14700	45840	116700	78520	39600	20130	12060	35260
1976-77	9374	8945	7345	7524	7966	9272	20690	<u>39360</u>	<u>27860</u>	<u>8626</u>	6918	9084	<u>13590</u>
1977-78	8788	10930	17950	10880	10810	21560	48050	79980	84470	41040	14610	14170	30330
1978-79	9415	10290	7301	6934	11170	16690	26410	91930	63370	19590	7856	7013	23220
1979-80	6518	8693	9789	8093	9451	13810	41920	92590	69730	25990	10240	11040	25670
1980-81	10740	14310	24980	20630	19680	19790	34290	88970	91250	37040	11970	7025	31770
1981-82	9350	11230	11430	9401	25400	27160	33530	94370	116800	53510	14850	9578	34700
1982-83	12460	11880	12100	15000	16350	28640	31520	70440	71460	41700	15340	9784	28120
1983-84	10760	19760	9954	17490	13720	18500	34510	61720	87780	32650	10040	10790	27260
1984-85	10510	13540	8418	7307	7689	10620	39760	84660	61580	13300	8234	15590	23460
1985-86	18030	22260	10720	10660	17100	39980	46250	65160	60880	17790	7395	8294	27040
1986-87	11600	14790	10800	7101	8623	22380	42370	65550	27890	12630	7181	5032	19720
1987-88	<u>5104</u>	6292	7853	6044	5589	10700	39450	57810	38890	11110	<u>4268</u>	<u>3749</u>	16400
1988-89	7884	11910	8741	8774	6510	15040	51510	79020	65210	20400	11540	10410	24790
MEAN	10990	13120	13160	11790	13260	17320	39500	83470	81040	31220	11540	9144	27960
MEDIAN	9566	11450	10990	10580	12280	16410	39760	83780	77190	30440	10760	8564	27910

SEV3A

USGS # 12399350

WANETA

River: PEND O'REILLE

Drainage Area: 25800 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 0.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										61950	27900	14950	
1928-29	11240	11240	9320	6940	6760	8830	12740	35650	71930	39660	16020	8380	19930
1929-30	6930	6460	6860	5620	7490	9010	23280	49790	49860	28640	13340	8090	17990
1930-31	7850	8190	7870	6920	7820	9650	16370	41380	45990	23390	10370	<u>6880</u>	16090
1931-32	<u>6460</u>	6830	6530	7000	6870	15970	35220	77660	91510	52750	20080	10840	28170
1932-33	8590	11240	14890	13880	10500	11030	21500	55950	121900	79960	26130	13470	32490
1933-34	12060	25470	<u>33390</u>	<u>43510</u>	30990	28310	62950	<u>94760</u>	67930	30740	14260	8414	37750
1934-35	7984	14560	14970	13000	15390	14810	21370	53670	84550	48940	20340	10590	26710
1935-36	8008	7856	7165	7423	<u>4705</u>	9547	22720	77710	71140	29570	12750	8378	22270
1936-37	7065	<u>6401</u>	<u>6353</u>	<u>4722</u>	5276	<u>7181</u>	12390	37370	59700	37160	15490	8917	17390
1937-38	7474	9138	11250	13330	11070	14170	27800	63850	89560	45230	13240	11150	26480
1938-39	9974	9072	8356	10240	9938	11670	26790	69590	59220	28130	11850	9074	22050
1939-40	9110	8899	9504	8866	10060	14700	28060	48440	44060	16610	8467	7762	17870
1940-41	9024	9465	9049	11060	11620	13930	17910	25980	30850	17380	9217	10500	<u>14660</u>
1941-42	13420	15740	25050	27140	16680	12980	22250	46090	68010	41580	16510	11300	26440
1942-43	9457	11150	13040	13210	18080	13960	49380	73150	96360	71370	22960	13380	33820
1943-44	13360	12720	11730	10020	9178	9225	13420	25430	37180	21760	9844	8351	15190
1944-45	8871	9376	9149	11050	12580	14000	16390	44620	70770	36820	12570	8975	21280
1945-46	9844	11750	13890	16090	15690	18550	33040	76690	80290	39540	15410	11200	28540
1946-47	11010	14470	23140	21830	21520	24460	34630	92880	88850	40060	15990	12690	33510
1947-48	18320	25300	18790	19830	17730	17470	26890	84330	<u>156400</u>	54820	25190	13520	39830
1948-49	11230	11720	11420	14290	14830	17350	31720	85200	78610	28540	13370	9072	27320
1949-50	10990	13820	17640	15710	19510	24920	32630	58620	113700	<u>90990</u>	<u>28690</u>	13970	36830
1950-51	14470	24110	24540	30440	30980	28110	38010	85380	90080	58000	22740	14620	38480
1951-52	19750	19990	20340	17350	20560	18030	32810	84740	52710	24430	9877	10800	27640
1952-53	13320	26370	16830	16330	20160	16560	18520	44560	77600	34510	13020	14050	25940
1953-54	24660	22180	16580	14290	16590	23340	27010	73490	88480	56010	15740	13900	32760
1954-55	13850	23190	19810	19240	20300	20830	30230	40980	71160	52520	13900	15530	28460
1955-56	19650	21950	25320	24110	24970	28770	<u>63770</u>	93450	98530	34330	12540	17590	38700
1956-57	16070	24800	22880	20550	19350	21790	26600	75430	63190	20480	9934	15210	28050
1957-58	20250	26890	22760	13940	14230	25230	26950	61310	54950	21530	8809	10900	25690
1958-59	12680	20190	24850	29580	31730	23270	42040	74810	99140	41200	13700	18340	35900
1959-60	<u>32490</u>	<u>34320</u>	27160	19660	21910	29700	55270	64770	64620	31100	13850	11440	33840
1960-61	15510	21140	15460	14780	25520	30150	41580	73100	90690	22820	8435	8979	30610
1961-62	19220	23780	18000	20400	25080	23340	37660	65800	58090	24590	11860	8460	28000
1962-63	17700	20510	24020	21700	28930	25350	36030	42100	48750	28850	10060	7660	25920
1963-64	14960	18710	14660	17430	18750	26290	26550	52050	105600	40450	13440	13660	30160
1964-65	17290	23140	20690	25340	31950	38180	46030	79580	79640	35400	16330	16240	35790
1965-66	20580	20360	22510	19340	21050	24230	37370	47700	46630	26380	9008	17190	26020
1966-67	21630	24350	23520	19670	23170	28210	24170	50860	98440	32050	8795	13550	30660
1967-68	25490	21510	20230	20560	20480	16680	33690	39840	55070	25640	11970	18450	25760
1968-69	25820	30170	22870	21760	23430	26100	60120	80450	52270	32840	14900	19390	34200
1969-70	25860	21910	15570	14030	14790	20280	21130	50830	76030	26160	14660	18050	26620
1970-71	25180	20640	18670	19100	30790	25660	39780	85700	88420	37610	14010	14670	34990
1971-72	24180	24850	19190	19220	20840	<u>40730</u>	49480	71440	111000	37850	15230	13540	37250
1972-73	22330	21900	17750	17670	18860	24150	18450	26180	23600	16300	9019	12250	19040
1973-74	18630	22770	22790	29660	<u>34390</u>	35170	52040	77960	114100	57750	16310	15930	<u>41410</u>
1974-75	22420	23980	17940	16870	17870	18230	20510	51300	94640	49640	18320	18590	30870
1975-76	28160	26970	28450	22530	24910	24660	42290	85070	64060	37970	20330	16270	35170
1976-77	26740	18700	15270	16440	12950	15750	<u>7814</u>	<u>17450</u>	<u>16660</u>	<u>7606</u>	11150	14150	15080
1977-78	22770	23870	20270	18530	19080	19690	36340	54280	59560	38660	13970	18420	28800
1978-79	25490	24350	17790	15930	15170	15820	18470	57440	49560	21820	12140	15160	24140
1979-80	21070	22130	17060	14310	12960	15680	20990	56270	64100	26480	11520	16980	24960
1980-81	26900	21190	19820	20330	26520	29310	25450	61390	87840	36410	12220	13340	31710
1981-82	26380	24060	16390	14960	19720	33960	34910	70700	91730	51790	15240	11510	34330
1982-83	19290	23660	15860	15260	26160	34710	30080	50000	53120	41900	15840	18830	28720
1983-84	25140	25890	16610	20850	22680	21580	30100	40200	65270	29250	12490	17590	27250
1984-85	26430	23450	16170	16840	13980	17470	27320	46520	47500	15940	14750	<u>22130</u>	24060
1985-86	24440	28830	17260	18710	21150	33760	40120	41100	50110	18160	8758	17420	26610
1986-87	26540	24330	17460	14010	15290	17110	27430	38440	20140	12440	11020	17430	20150
1987-88	23330	19080	15040	10250	12770	19050	30230	32040	24210	11890	<u>6342</u>	10190	17860
1988-89	20690	21820	14120	12150	12070	18590	32290	51630	44390	21660	16660	21530	24000
MEAN	17470	19220	17240	16980	18300	20940	31130	59260	70820	35580	14340	13380	27840
MEDIAN	18320	21510	17260	16440	18750	19690	30080	56270	68010	33590	13570	13530	27640

WAT3H

USGS # 12399350

WANETA

River: PEND O'REILLE

Drainage Area: 25800 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 0.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54			325										28
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

WAT3F

USGS # 12399350

WANETA

River: PEND O'REILLE

Drainage Area: 25800 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 0.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-15545	-11746	-4425	
1928-29	140	-869	-1191	-1269	-138	1631	5400	25169	-4628	-17401	-7064	-2825	-249
1929-30	-818	-1225	1379	-1296	2448	379	22034	2282	-5155	-11600	-5765	-1548	36
1930-31	381	-81	-1370	174	702	2329	6060	18145	-11042	-10765	-4507	-895	-63
1931-32	-726	169	368	-354	2571	4855	13285	21906	-5809	-22353	-8494	-3519	136
1932-33	-347	3820	-71	-1922	-1699	924	13447	19982	17221	-33839	-11696	-3057	163
1933-34	5409	2080	9054	-6592	-4713	4824	28319	-951	-19832	-12899	-5947	-2444	-299
1934-35	1176	4869	-1974	414	-705	262	8958	25938	-7364	-17979	-8756	-3889	79
1935-36	-1232	-443	-511	-145	-22	1341	25382	15136	-19554	-13865	-5285	-2164	-124
1936-37	-960	-601	403	-555	335	545	6960	24387	-3483	-16771	-6755	-2858	52
1937-38	-168	2313	416	-246	-1423	2227	18196	19717	-8101	-14524	-3449	-4156	907
1938-39	-2252	-1119	263	-1535	-3276	1767	16527	14823	-11266	-8092	-4399	-3185	-124
1939-40	-2919	-1816	592	-2120	-163	4087	8863	13717	-5896	-4451	-3018	-1678	443
1940-41	-1229	-1810	-891	-3110	-3498	-489	6165	17114	353	-4787	-2920	441	468
1941-42	1471	-707	1197	-13208	5556	-1618	15002	15483	2147	-7496	-5481	-2722	-118
1942-43	-1576	165	-1468	-4858	-6317	146	27800	5149	6536	-13606	-6581	-4523	43
1943-44	-3470	-3180	-2986	-3049	-2435	-1898	4946	19532	2267	-5795	-2667	-1996	-54
1944-45	-1632	-1705	-2889	-2228	-3117	-2351	1119	29173	-220	-9783	-3867	-1461	120
1945-46	-620	2125	-1939	-4513	-5539	-2144	16986	17288	-6394	-9054	-4773	-1583	1
1946-47	1905	1598	-1433	-7085	-4517	-812	13716	20014	-7931	-9237	-2629	-1123	230
1947-48	4591	-5791	-4018	-5328	-4730	-3268	15259	43796	-20983	-14835	-3630	-2647	-70
1948-49	-945	-1038	-3668	-7888	-2553	-951	16910	23281	-13042	-7628	-3049	-733	-96
1949-50	-1538	995	-2886	-5497	-4967	-142	8281	25156	13598	-21637	-6470	-2742	168
1950-51	4297	-798	972	-10910	-1236	-7395	12469	26521	-6558	-9751	-5455	74	186
1951-52	3655	-2582	-4665	-5365	-7253	-3694	26078	17461	12147	1583	1013	-4305	2840
1952-53	-7203	-18662	-8080	-549	-2911	-2462	9268	27469	32147	5248	673	-7635	2301
1953-54	-15676	-12051	-4651	-3707	-4094	-5563	5435	39322	12227	5839	1359	-253	1564
1954-55	-1839	-7951	-8282	-9816	-9883	-12981	-6814	23570	34337	-1048	28	-6941	-600
1955-56	-2222	-3881	-3052	-6244	-11906	-9351	2884	33330	6384	92	1075	-8195	-19
1956-57	-5167	-13794	-9572	-12184	-6303	-4674	4970	44064	9654	80	-552	-9017	-138
1957-58	-10729	-17262	-11751	-4127	1675	-7691	7552	43949	6922	-336	578	-3056	488
1958-59	-1845	-1643	-5694	-9585	-14437	-5901	2087	12879	29002	3043	445	-482	708
1959-60	-3067	-7449	-4214	-5063	-7722	-6560	-805	9953	25335	-436	366	-1666	-112
1960-61	-6026	-7433	-4891	-4004	-1909	-9058	-5965	26808	13476	-586	151	-1861	-90
1961-62	-6891	-13496	-7332	-11333	-10208	-8340	17040	19313	22813	567	434	-338	202
1962-63	-3950	-3912	-6650	-10107	-6684	-6425	-2966	25552	15649	-826	-214	672	41
1963-64	-7396	-7731	-6079	-8331	-10538	-15474	-1321	28141	27661	506	641	-147	2
1964-65	-5442	-9444	-1894	-10021	-15084	-19581	9776	18174	30041	2886	169	-430	-30
1965-66	-7084	-7428	-11024	-8359	-11490	-7384	5412	26026	20948	-28	-386	-9802	-831
1966-67	-13836	-12611	-8004	-5085	-6876	-11724	-703	33556	30406	5100	1028	-7910	315
1967-68	-14503	-6792	-9707	-9972	-1171	9189	-10349	26045	22949	1845	616	-416	647
1968-69	-5568	-8922	-7101	-7148	-10713	-9682	7774	22686	16343	1199	-5719	-10161	-1371
1969-70	-14718	-11118	-6371	-3900	-2890	-6123	-186	33837	25686	2530	-4235	-9862	236
1970-71	-14151	-9429	-7681	-4246	-519	-7031	1647	36072	16426	2597	-411	-6120	605
1971-72	-14614	-14193	-9469	-9790	-5713	2696	-8247	35153	23200	5808	1093	-4301	178
1972-73	-11890	-11160	-6799	-6178	-9493	-9942	912	27680	24371	-1557	-3244	-6141	-1085
1973-74	-11721	-3121	-2920	7444	-13397	-13284	3256	13076	38625	-1190	-1217	-6626	780
1974-75	-14276	-13319	-8239	-7571	-7681	-5673	-466	23779	34277	7265	-1020	-4849	209
1975-76	-13132	-7450	-504	-5497	-9608	-9963	3548	31595	14464	1635	-199	-4214	92
1976-77	-17366	-9755	-7925	-8916	-4984	-6478	12873	21909	11203	1020	-4232	-5066	-1489
1977-78	-13982	-12944	-2322	-7645	-8268	1872	11707	25698	24908	2376	643	-4248	1526
1978-79	-16078	-14060	-10489	-8998	-4006	863	7936	34490	13804	-2227	-4283	-8147	-917
1979-80	-14548	-14580	-7271	-6216	-3511	-1866	20934	36328	5632	-492	-1274	-5944	612
1980-81	-16160	-6874	5162	302	-6841	-9517	8843	27581	3409	631	-251	-6313	56
1981-82	-17025	-12825	-4956	-5559	5688	-6792	-1380	23666	25026	1714	-385	-1932	374
1982-83	-6828	-11783	-3757	-261	-9812	-6074	1439	20441	18332	-196	-497	-9050	-600
1983-84	-14371	-6135	-6652	-3357	-8957	-3083	4415	21519	22510	3404	-2455	-6804	14
1984-85	-15917	-9910	-7756	-9533	-6293	-6852	12433	38140	14079	-2639	-6513	-6540	-596
1985-86	-6407	-6576	-6540	-8054	-4044	6219	6130	24064	10770	-376	-1363	-9129	429
1986-87	-14947	-9538	-6658	-6912	-6669	5271	14940	27105	7751	188	-3841	-12401	-432
1987-88	-18221	-12784	-7185	-4204	-7180	-8343	9222	25775	14685	-784	-2074	-6441	-1459
1988-89	-12802	-9907	-5377	-3381	-5555	-3555	19223	27388	20818	-1257	-5114	-11122	788
MEAN	-6475	-6124	-4082	-5190	-5046	-3619	8371	24200	10220	-4363	-2800	-4240	116

WAT3SS

USGS # 12399350

WANETA

River: PEND O'REILLE

Drainage Area: 25800 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 0.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										46410	16150	10520	
1928-29	11380	10370	8129	5671	6622	10460	18140	60820	67300	22260	8956	5555	19680
1929-30	6112	<u>5235</u>	8239	4324	9938	9389	45310	52070	44700	17040	7575	6542	18030
1930-31	8231	8109	6500	7094	8522	11980	22430	59520	34950	12630	5863	5985	16020
1931-32	5734	6999	6898	6646	9441	20820	48510	99570	85700	30400	11590	7321	28310
1932-33	8243	15060	14820	11960	8801	11950	34950	75930	139100	46120	14430	10410	32660
1933-34	17470	<u>27530</u>	<u>42440</u>	36920	26280	33130	<u>91270</u>	93810	48100	17840	8313	5970	37450
1934-35	9160	19430	13000	13410	14680	15070	30330	79610	77190	30960	11580	6701	26790
1935-36	6776	7213	6654	7278	<u>4683</u>	10890	48100	92850	51590	15710	7465	6214	22150
1936-37	6105	5800	6756	<u>4167</u>	5611	7726	19350	61760	56220	20390	8735	6059	17440
1937-38	7306	11450	11670	13080	9647	16400	46000	83570	81460	30710	9791	6994	27380
1938-39	7722	7953	8619	8705	8662	13440	43320	84410	47950	20040	7451	5889	21920
1939-40	6191	7083	10100	6746	9897	18790	36920	62160	38160	12160	5449	6084	18320
1940-41	7795	7855	8158	7950	8122	13440	24070	43090	31200	12590	6297	10940	15130
1941-42	14890	15030	26250	13930	11120	11360	37250	61570	70160	34080	11030	8578	26330
1942-43	7881	11310	11570	8352	11760	14110	77180	78300	102900	57760	16380	8857	33870
1943-44	9890	9540	8744	8971	6743	<u>7327</u>	18370	44960	39450	15970	7177	6355	15130
1944-45	7239	7671	<u>6260</u>	8822	9463	11650	<u>17510</u>	73790	70550	27040	8703	7514	21400
1945-46	9224	13870	11950	11580	10150	16410	50030	93980	73900	30490	10640	9617	28540
1946-47	12920	16070	21710	14740	17000	23650	48350	112900	80920	30820	13360	11570	33740
1947-48	22910	19510	14770	14500	13000	14200	42150	<u>128100</u>	135400	39980	21560	10870	39760
1948-49	10280	10680	7752	6402	12280	16400	48630	108500	65570	20910	10320	8339	27230
1949-50	9452	14810	14750	10210	14540	24780	40910	83780	127300	<u>69350</u>	<u>22220</u>	11230	37000
1950-51	18770	23310	25510	19530	29740	20720	50480	111900	83520	48250	17280	14690	38670
1951-52	23400	17410	15680	11990	13310	14340	58890	102200	64860	26010	10890	6495	30480
1952-53	6117	7708	8750	15780	17250	14100	27790	72030	109700	39760	13690	6415	28250
1953-54	8984	10130	11930	10580	12500	17780	32450	112800	100700	61850	17100	13650	34330
1954-55	12010	15240	11530	9424	10420	7849	23420	64550	105500	51470	13930	8589	27860
1955-56	17430	18070	22270	17870	13060	19420	66650	126800	104900	34420	13620	9395	38680
1956-57	10900	11010	13310	8366	13050	17120	31570	119500	72840	20560	9382	6193	27910
1957-58	9521	9628	11010	9813	15900	17540	34500	105300	61870	21190	9387	7844	26180
1958-59	10840	18550	19160	19990	17290	17370	44130	87690	128100	44240	14150	17860	36610
1959-60	<u>29420</u>	26870	22950	14600	14190	23140	54460	74720	89950	30660	14220	9774	33730
1960-61	9484	13710	10570	10780	23610	21090	35610	99910	104200	22230	8586	7118	30520
1961-62	12330	10280	10670	9067	14870	15000	54700	85110	80900	25160	12290	8122	28210
1962-63	13750	16600	17370	11590	22250	18920	33060	67650	64400	28020	9846	8332	25960
1963-64	7564	10980	8581	9099	8212	10820	25230	80190	133300	40960	14080	13510	30160
1964-65	11850	13700	18800	15320	16870	18600	55810	97750	109700	38290	16500	15810	35760
1965-66	13500	12930	11490	10980	9560	16850	42780	73730	67580	26350	8622	7388	25190
1966-67	7794	11740	15520	14580	16290	16490	23470	84420	128800	37150	9823	5640	30980
1967-68	10990	14720	10520	10590	19310	25870	23340	65880	78020	27490	12590	<u>18030</u>	26410
1968-69	20250	21250	15770	14610	12720	16420	67890	103100	68610	34040	9181	9229	32830
1969-70	11140	10790	9199	10130	11900	14160	20940	84670	101700	28690	10420	8188	26860
1970-71	11030	11210	10990	14850	<u>30270</u>	18630	41430	121800	104800	40210	13600	8550	35590
1971-72	9566	10660	9721	9430	15130	<u>43430</u>	41230	106600	134200	43660	16320	9239	37430
1972-73	10440	10740	10950	11490	9367	14210	19360	53860	47970	14740	5775	6109	17950
1973-74	6909	19650	19870	<u>37100</u>	20990	21890	55300	91040	<u>152700</u>	56560	15090	9304	<u>42190</u>
1974-75	8144	10660	9701	9299	10190	12560	20040	75080	128900	56910	17300	13740	31080
1975-76	15030	19520	27950	17030	15300	14700	45840	116700	78520	39600	20130	12060	35260
1976-77	9374	8945	7345	7524	7966	9272	20690	<u>39360</u>	<u>27860</u>	<u>8626</u>	6918	9084	<u>13590</u>
1977-78	8788	10930	17950	10880	10810	21560	48050	79980	84470	41040	14610	14170	30330
1978-79	9415	10290	7301	8934	11170	16690	26410	91930	63370	19590	7856	7013	23220
1979-80	6518	7550	9789	8093	9451	13810	41920	92590	69730	25990	10240	11040	25570
1980-81	10740	14310	24980	20630	19680	19790	34290	88970	91250	37040	11970	7025	31770
1981-82	9350	11230	11430	9401	25400	27160	33530	94370	116800	53510	14850	9576	34700
1982-83	12460	11880	12100	15000	16350	28640	31520	70440	71460	41700	15340	9784	28120
1983-84	10760	19760	9954	17490	13720	18500	34510	61720	87780	32650	10040	10790	27260
1984-85	10510	13540	8418	7307	7689	10620	39760	84660	61580	13300	8234	15590	23460
1985-86	18030	22260	10720	10660	17100	39980	46250	65160	60880	17790	7395	8294	27040
1986-87	11600	14790	10800	7101	8623	22380	42370	65550	27890	12630	7181	5032	19720
1987-88	<u>5104</u>	6292	7853	6044	5589	10700	39450	57810	38890	11110	<u>4268</u>	<u>3749</u>	16400
1988-89	7884	11910	8741	8774	6510	15040	51510	79020	65210	20400	11540	10410	24790
MEAN	10990	13100	13160	11790	13260	17320	39500	83470	81040	31220	11540	9144	27960
MEDIAN	9566	11450	10990	10580	12280	16410	39760	83780	77190	30440	10760	8564	27910

WAT3A

USGS # 12418900

COEUR D'ALENE

River: SPOKANE

Drainage Area:

3840 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

102.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1524	1003	913	
1928-29	1097	1149	1189	1087	<u>1025</u>	<u>1751</u>	7065	13090	5059	1187	1113	1242	3014
1929-30	960	972	935	1307	2487	3873	11270	7055	3531	1018	1108	1071	2956
1930-31	1020	965	1015	<u>996</u>	1913	6776	13550	11000	<u>2005</u>	935	1072	1023	3526
1931-32	1045	883	910	2582	2430	11790	23770	28990	12500	1643	847	849	7356
1932-33	988	4931	4667	4533	2483	5588	14210	22660	21830	3119	839	916	7234
1933-34	2720	6537	<u>23660</u>	<u>24930</u>	13750	12730	21170	9156	2113	914	822	721	9929
1934-35	793	4113	4355	5470	6517	7888	14670	23050	9810	1453	1004	1246	6691
1935-36	1055	<u>627</u>	<u>784</u>	1632	1972	5773	16980	21990	5249	1059	1070	1151	4950
1936-37	1375	787	811	1330	1075	2587	12420	20320	7514	1321	979	1283	4331
1937-38	952	2029	5542	7406	4463	9567	18630	19290	7111	1303	921	1119	6537
1938-39	1316	1315	1137	1826	2648	5136	16600	16320	3224	1375	1472	1271	4472
1939-40	1048	667	1210	1968	5236	13170	15010	10390	2283	1075	974	959	4493
1940-41	1073	1317	3559	4536	3948	4678	3923	6826	4114	935	1001	1146	3086
1941-42	1670	3286	9485	3810	4871	4836	12460	8548	5693	2290	624	747	4852
1942-43	1053	3919	4262	4123	3970	4831	<u>26050</u>	18880	13220	2460	886	903	7029
1943-44	1308	1698	2629	2010	2286	2000	6819	5742	2273	921	1048	1041	2477
1944-45	1276	1410	1266	2947	5029	6508	8970	18480	5962	2003	337	842	4585
1945-46	1316	2815	4982	7795	3797	7845	17270	22660	8550	1716	334	582	6655
1946-47	1187	4277	12820	6672	9185	9115	13270	15780	5117	2101	408	946	6728
1947-48	2800	3702	5638	8738	4920	6398	14930	<u>29410</u>	21890	2202	1515	785	8578
1948-49	1571	1580	3098	2682	3141	10600	19630	27670	6737	1096	575	<u>188</u>	6571
1949-50	879	2809	3375	4400	6627	17110	19750	23910	22710	<u>6311</u>	1066	396	9107
1950-51	2289	4494	9512	8010	15980	7548	15630	16950	5915	1454	253	381	7306
1951-52	3015	3876	5576	4460	5374	4170	18130	22290	6048	1912	384	1269	6371
1952-53	1378	1691	1892	6233	11040	5914	8894	18710	12770	1265	527	1235	5918
1953-54	2043	1982	3534	4186	7078	9303	14600	24340	14700	2474	1133	1087	7196
1954-55	3083	3887	3441	2234	2846	2517	9174	19470	16650	3032	737	1003	5674
1955-56	3190	6097	12570	10430	5026	6986	24270	29240	14000	1733	810	1066	9624
1956-57	2418	2909	3672	3564	2170	9890	16120	27690	11350	1150	425	564	6855
1957-58	2040	2439	2668	2846	8822	8455	14710	19500	5457	1051	<u>185</u>	862	5726
1958-59	1357	5639	8755	12730	7946	6937	16750	21530	14600	1365	501	1740	8309
1959-60	3120	<u>8169</u>	6364	4335	5671	7371	21590	16710	9552	1246	593	1606	7169
1960-61	1689	2068	3210	3393	<u>16340</u>	14420	13860	20030	12660	932	197	708	7387
1961-62	886	2003	1808	4014	5266	4499	19220	19200	8383	1414	419	500	5616
1962-63	1770	3462	6730	5433	9613	7437	12440	10780	3314	964	193	378	5177
1963-64	<u>782</u>	2420	2525	2722	3401	2939	11740	21280	22280	2372	1173	1157	6213
1964-65	1504	3133	14570	10220	11370	9738	17020	21580	9676	2006	1017	830	8541
1965-66	1130	2871	2663	3690	2215	6289	16000	13810	4418	1338	356	418	4605
1966-67	1623	2137	4433	7291	9866	6597	9613	18320	14820	1440	460	1092	6441
1967-68	1735	2441	3307	3738	10260	12880	8404	8668	5688	1475	812	1506	5054
1968-69	<u>3373</u>	6169	7363	9382	5121	5958	23300	23950	8197	1863	973	1510	8102
1969-70	1666	1742	2166	3170	8329	7925	9601	18810	14100	1850	1218	1277	5960
1970-71	1684	2461	3574	5294	13450	7566	13660	26660	17480	3484	1286	1815	8152
1971-72	1821	2372	2696	4368	7960	<u>25440</u>	17390	25250	20510	2945	1461	1202	9449
1972-73	1557	1484	2599	5118	4531	4718	5540	5876	3155	910	563	1492	3119
1973-74	1609	3063	10720	20320	13700	9125	21100	25150	<u>26710</u>	5247	1315	1510	<u>11600</u>
1974-75	1697	2107	1980	2801	3339	6509	7686	22610	18500	3026	<u>1566</u>	1777	6141
1975-76	2284	3489	9390	8716	6829	6386	16580	23730	9219	2707	1562	1680	7719
1976-77	1913	1731	1449	1665	1552	2110	<u>3558</u>	<u>5679</u>	3057	<u>889</u>	695	1398	<u>2143</u>
1977-78	1675	2098	12170	5653	6300	9511	15490	14820	6737	2527	1399	1750	6683
1978-79	1751	1573	1534	1565	2493	8320	11340	22360	5795	1441	715	1525	5055
1979-80	1529	1676	2076	3677	3282	6194	9307	12950	9308	2431	1166	1750	4610
1980-81	1775	1945	7000	9731	10180	6740	9952	12170	10040	3230	949	1574	6246
1981-82	1783	2462	3791	2840	14850	18780	14730	19500	12760	3011	1018	1618	8043
1982-83	2059	2915	4214	7145	8446	14890	10460	12400	7483	3778	1453	1414	6380
1983-84	1892	3281	4915	6378	7748	10550	13280	14140	13570	2847	948	1660	6749
1984-85	1757	2806	3793	1945	1498	3380	16790	18020	10360	1535	950	<u>1849</u>	5394
1985-86	2132	4636	3430	2065	7794	18230	12940	9594	3886	1167	420	1221	5608
1986-87	2466	2624	3827	2491	3159	10160	11220	8528	2113	1066	504	1205	4119
1987-88	1249	1383	2365	1804	1907	4824	14460	7779	3621	1219	392	859	3480
1988-89	1494	2627	2854	2520	2181	7569	20360	16880	6674	1445	1142	1411	5601
MEAN	1684	2757	4729	5098	6044	8022	14350	17680	9574	1890	853	1133	6142
MEDIAN	1623	2441	3534	4014	5029	6986	14600	18810	8197	1465	935	1149	6246

COE3H

USGS # 12418900

COEUR D'ALENE

River: SPOKANE

Drainage Area:

3840 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

102.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-147	-512	-385	
1928-29	-226	-82	-295	-338	-263	1741	1165	-437	-183	-120	-656	-697	-32
1929-30	-264	-386	558	-531	1457	533	426	-47	-6	-168	-689	-509	21
1930-31	-217	92	-230	372	393	684	519	-279	70	-387	-744	-412	-16
1931-32	-304	163	301	-371	1263	1958	3000	-725	-3894	-5	-331	-370	54
1932-33	-129	-5	-209	-186	-522	1403	5370	-1733	-2653	-611	-137	-106	38
1933-34	-46	-440	7625	-4148	-3464	3171	-818	-2001	-21	-317	-540	-294	-77
1934-35	550	-160	-115	186	-437	528	4392	-896	-2850	-41	-485	-720	-2
1935-36	-389	82	62	430	-878	475	7605	-5590	-395	-105	-656	-555	-6
1936-37	-704	-286	307	-573	-150	1497	3383	-635	-1488	-41	-401	-672	19
1937-38	-173	813	-76	-382	-560	1376	4938	-3314	-1493	-143	-428	-486	0
1938-39	-381	-205	393	164	-729	2590	1888	-2680	69	-305	-992	-710	-73
1939-40	-299	41	849	-137	1534	1046	-433	-556	-42	-412	-646	-261	51
1940-41	-75	307	515	-351	-275	761	1378	394	-359	-139	-657	-121	116
1941-42	-215	-92	37	-540	-555	293	1409	221	364	39	-261	-409	26
1942-43	-319	78	-350	-712	-447	2203	2972	-1599	-2016	821	-297	-451	-8
1943-44	-242	-609	-431	-795	-656	218	1791	1382	40	-527	-713	-483	-85
1944-45	-524	-469	-215	1002	202	281	637	1182	-375	-943	-71	26	61
1945-46	-380	170	280	-1020	-220	1810	3720	-2210	-2080	-80	-20	-60	-11
1946-47	100	820	-10	-720	-300	440	1700	-1200	340	-930	-20	-110	4
1947-48	190	800	-730	-800	640	-630	4880	3530	-7820	963	15	-104	82
1948-49	-636	366	-1121	-1319	1631	376	4927	-2337	-1531	-31	-285	326	6
1949-50	-16	-24	-470	-542	951	54	1867	2246	-2931	-1109	-16	72	2
1950-51	-101	113	364	-1163	52	-834	2091	-421	-106	63	-16	17	-1
1951-52	-55	-286	-490	-1613	-9	1021	6258	-4472	-168	-39	-47	-795	-73
1952-53	-618	-785	-625	1940	-694	36	3581	-1186	-1644	851	-8	-836	6
1953-54	-980	-440	120	-93	1354	-823	3504	642	-3354	1010	8	8	71
1954-55	-1471	-574	-874	-228	263	154	2022	2837	-3226	1034	31	-388	-32
1955-56	-375	655	2035	-2627	-1333	2247	5533	-1735	-4624	557	-63	-470	-13
1956-57	-873	-1006	621	-1386	1441	825	2006	2338	-3759	345	-8	-356	13
1957-58	-858	-910	-346	470	2661	-1816	2352	-83	-889	39	-116	-542	-25
1958-59	-298	811	-104	1229	-2688	336	2611	-337	-2066	850	86	-380	25
1959-60	221	404	-1103	-1088	629	2962	-1697	291	-498	238	-8	-1031	-53
1960-61	-550	671	-1058	9	4747	-3029	177	2909	-2910	354	78	-425	50
1961-62	21	-972	-127	-897	201	852	3588	-1436	-796	-8	39	-16	32
1962-63	-286	216	-739	-1508	1437	81	70	208	668	-8	-8	0	-3
1963-64	-248	-577	-863	-431	-946	704	2510	2971	-3893	727	-55	0	2
1964-65	-198	54	2274	-2089	-1124	-916	6823	-4130	-601	31	24	-24	3
1965-66	-422	-1207	-865	-299	-355	2276	-35	-17	894	-8	-24	-88	-9
1966-67	-976	-233	605	713	-2107	613	225	3137	-2895	674	31	-685	-49
1967-68	-427	-226	-780	-217	4240	-2735	-722	1480	287	8	8	57	61
1968-69	-334	153	-1012	-288	-1131	2523	3591	-2459	-1082	-63	-423	-665	-97
1969-70	-546	-637	-494	1745	-224	-241	273	2925	-2264	447	-473	-520	10
1970-71	-531	-239	-859	2268	-864	-277	2427	1728	-3778	935	8	-814	14
1971-72	-476	-660	-699	1392	1774	1530	-2251	4188	-4908	759	-313	-344	12
1972-73	-585	-294	326	80	-1791	493	541	1664	72	16	-401	-768	-39
1973-74	-645	932	181	3350	-4630	2207	2606	-331	-2024	-856	-147	-807	20
1974-75	-805	-555	-366	13	-78	423	1987	2002	-2634	903	-132	-852	-2
1975-76	-656	-463	1567	-426	-679	-204	1996	527	-723	-55	-39	-853	3
1976-77	-857	-605	-392	-562	-77	210	2498	987	-276	-39	-361	-587	-8
1977-78	-591	350	532	-727	-35	2419	-1344	-216	693	-102	-252	-770	0
1978-79	-759	-518	-533	-640	1024	1327	1838	-388	-211	-86	-225	-939	-18
1979-80	-584	-774	305	-560	575	27	3058	-503	-292	-23	-275	-689	16
1980-81	-795	-115	4671	-3474	653	-661	1295	-592	120	-39	-15	-910	5
1981-82	-630	-642	-129	-124	6043	-3954	1451	377	-1251	357	-70	-781	9
1982-83	-643	-725	89	951	1252	-875	171	961	-284	-23	-54	-567	15
1983-84	-765	822	-1591	1345	-1101	1358	47	1711	-1316	23	-130	-814	-25
1984-85	-623	69	-1323	-495	48	1246	2012	651	-609	39	-184	-719	7
1985-86	-414	-403	-1527	549	4032	-948	-1202	1016	32	46	-23	-480	30
1986-87	-1277	583	-1269	-746	627	1151	1453	23	72	39	-31	-958	-37
1987-88	-641	-578	-736	-504	402	1585	844	547	16	15	-122	-516	23
1988-89	-760	-483	-870	-145	-331	2458	2552	-1841	143	24	-109	-722	-9
MEAN	-444	-133	9	-288	195	599	2024	-21	-1301	69	-215	-460	2

COE3S

USGS # 12418900

COEUR D'ALENE

River: SPOKANE

Drainage Area: 3840 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 102.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1377	491	527	
1928-29	871	1067	894	<u>749</u>	<u>762</u>	3492	8230	12660	4877	1066	457	546	2983
1929-30	696	586	1492	776	3944	4406	11700	7009	3525	850	419	562	2977
1930-31	803	1057	<u>785</u>	1368	2306	7460	14070	10720	<u>2075</u>	547	328	611	3510
1931-32	740	1046	1211	2210	3692	13750	26770	28260	8608	1638	516	479	7410
1932-33	859	4926	4459	4347	1960	6991	19580	20930	19170	2508	701	810	7272
1933-34	2675	6097	<u>31290</u>	20780	10280	15900	20350	7155	2092	597	282	428	9852
1934-35	1344	3952	4240	5656	6079	8416	19070	22160	6960	1413	518	526	6689
1935-36	666	709	845	2062	1094	6248	24580	16400	4854	954	414	596	4944
1936-37	670	<u>501</u>	1118	757	925	4084	15800	19690	6027	1280	578	611	4350
1937-38	779	2842	5465	7024	3903	10940	23560	15980	5618	1160	493	633	6537
1938-39	935	1110	1530	1990	1919	7726	18490	13640	3293	1070	481	561	4399
1939-40	750	708	2059	1830	6769	14220	14580	9835	2241	663	328	697	4545
1940-41	997	1623	4074	4185	3671	5439	<u>5301</u>	7220	3756	797	344	1026	3202
1941-42	1455	3193	9523	3270	4316	5129	13860	8769	6057	2329	363	338	4878
1942-43	734	3998	3912	3410	3523	7034	29020	17290	11210	3281	589	452	7021
1943-44	1067	1088	2198	1215	1630	<u>2218</u>	8610	7124	2313	<u>395</u>	336	559	2392
1944-45	752	941	1051	3949	5230	6788	9606	19660	5586	1060	266	867	4646
1945-46	936	2985	5262	6775	3577	9655	20990	20450	6470	1636	314	522	6644
1946-47	1287	5097	12810	5952	8885	9555	14970	14580	5457	1171	388	836	6733
1947-48	2990	4502	4908	7938	5560	5768	19810	<u>32940</u>	14070	3165	<u>1530</u>	681	8660
1948-49	935	1946	1977	1363	4772	10980	24560	25340	5206	1065	290	514	6577
1949-50	863	2785	2905	3858	7578	17170	21610	26160	19780	<u>5202</u>	1050	468	9109
1950-51	2188	4607	9876	6847	16030	6714	17720	16530	5809	1517	237	398	7304
1951-52	2960	3590	5086	2847	5365	5191	24390	17820	5880	1873	337	474	6298
1952-53	760	906	1266	8173	10340	5950	12480	17520	11120	2116	519	399	5924
1953-54	1063	1542	3653	4093	8432	8479	18110	24980	11340	3484	1141	1095	7267
1954-55	1612	3312	2567	2006	3108	2670	11200	22300	13430	4066	768	615	5642
1955-56	2815	6752	14600	7807	3694	9233	<u>29800</u>	27510	9372	2290	747	596	9612
1956-57	1545	1902	4293	2178	3611	10720	18130	30030	7591	1495	417	<u>208</u>	6868
1957-58	1182	1529	2323	3316	11480	6640	17060	19420	4568	1090	<u>69</u>	320	5701
1958-59	1059	6450	8650	13960	5278	7273	19360	21190	12530	2215	587	1360	8334
1959-60	<u>3340</u>	<u>8573</u>	5261	3246	6300	10330	19890	17000	9055	1483	585	576	7115
1960-61	1138	2740	2152	3402	<u>21090</u>	11390	14040	22940	9753	1285	276	283	7438
1961-62	907	1031	1682	3116	5467	5351	22810	17760	7587	1406	458	484	5648
1962-63	1484	3678	5991	3926	11050	7517	12510	10990	3982	957	185	378	5173
1963-64	<u>534</u>	1843	1662	2291	2455	3643	14250	24250	18380	3099	1118	1157	6215
1964-65	1307	3187	16840	8126	10250	8822	23840	17450	9075	2038	1041	806	8544
1965-66	708	1664	1798	3392	1860	8566	15960	13790	5312	1330	333	330	4596
1966-67	647	1904	5038	8004	7760	7209	9838	21460	11920	2114	491	407	6392
1967-68	1308	2214	2527	3521	14500	10140	7683	10150	5975	1483	820	<u>1563</u>	5115
1968-69	3038	6322	6351	9093	3991	8481	26890	21490	7115	1800	550	845	8005
1969-70	1120	1105	1672	4915	8104	7684	9874	21730	11830	2297	745	757	5970
1970-71	1152	2223	2715	7562	12590	7290	16090	28390	13700	4418	1294	1001	8166
1971-72	1345	1712	1997	5760	9734	<u>26970</u>	15140	29440	15600	3704	1148	858	9461
1972-73	972	1190	2925	5198	2740	5212	6081	7540	3227	926	162	724	3080
1973-74	964	3994	10880	<u>23670</u>	9067	11330	23710	24820	<u>24680</u>	4391	1168	703	<u>11620</u>
1974-75	892	1552	1613	2814	3261	6933	9673	24610	15860	3929	1433	925	6139
1975-76	1628	3025	10960	8291	6150	6182	18570	24260	8496	2652	1523	827	7722
1976-77	1056	1125	1057	1103	1475	2320	6056	<u>6665</u>	2781	850	334	811	<u>2135</u>
1977-78	1084	2448	12700	4925	6265	11930	14150	14610	7431	2425	1147	980	6682
1978-79	992	1055	1001	925	3517	9647	13180	21980	5584	1355	489	586	5037
1979-80	945	902	2381	3117	3856	6220	12370	12450	9016	2408	892	1061	4625
1980-81	979	1831	11670	6257	10830	6079	11250	11580	10160	3191	934	663	6251
1981-82	1153	1820	3663	2716	20890	14830	16180	19880	11510	3368	948	837	8051
1982-83	1416	2190	4302	8096	9698	14010	10630	13360	7200	3755	1400	847	6395
1983-84	1127	4103	3324	7724	6646	11910	13320	15850	12260	2870	819	846	6724
1984-85	1134	2875	2471	1449	1546	4626	18800	18670	9755	1574	766	1130	5401
1985-86	1718	4233	1903	2613	11830	17280	11740	10610	3917	1213	396	741	5638
1986-87	1189	3207	2558	1744	3786	11310	12670	8551	2184	1105	473	247	4082
1987-88	608	805	1629	1301	2309	6389	15300	8326	3637	1235	271	343	3503
1988-89	733	2144	1984	2375	1850	10030	22910	15040	6818	1468	1033	689	5592
MEAN	1239	2624	4738	4809	6239	8621	16370	17650	8274	1960	638	673	6144
MEDIAN	1059	2144	2715	3410	5230	7517	15800	17520	7115	1506	504	613	6251

COE3A

USGS # 12422150

UPPER FALLS

River: SPOKANE

Drainage Area: 4290 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 76.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										2481	1769	1604	
1928-29	1689	1758	1754	1559	<u>1489</u>	<u>2047</u>	7161	13480	5726	1867	1543	1722	3493
1929-30	1476	1461	1363	1594	2652	4026	11290	7506	4396	1521	1443	1421	3337
1930-31	1385	1355	1337	<u>1339</u>	2056	8608	13880	11520	2622	1357	1371	1391	3856
1931-32	1370	1235	<u>1233</u>	2656	2501	11580	23790	<u>29800</u>	14080	2595	1511	1442	7820
1932-33	1561	5694	5217	5043	3019	5667	14080	22890	21820	4445	1595	1527	7718
1933-34	3037	7195	<u>22910</u>	<u>25430</u>	14310	12960	20930	9957	3073	1666	1480	1433	10360
1934-35	1414	4271	4675	5690	6609	8084	14070	23000	11200	2412	1745	1958	7090
1935-36	1735	1261	1315	2027	2529	5791	16430	22640	6448	1932	1731	1840	5478
1936-37	1938	1374	1353	1750	1575	2714	11920	19800	8351	2137	1528	1836	4702
1937-38	1494	2408	5664	7645	4954	9646	18890	19830	8030	2024	1534	1666	6990
1938-39	1798	1792	1605	2140	2965	5142	16360	16630	3999	1976	1930	1783	4846
1939-40	1533	<u>1151</u>	1645	2310	5252	13070	15140	10830	3116	1679	1506	1498	4889
1940-41	1584	1798	3812	4780	4285	4876	4261	6915	4617	1557	1517	1661	3470
1941-42	2123	3572	9652	4303	5175	5139	12460	9135	6143	2958	1212	1244	5254
1942-43	1495	4060	4570	4445	4315	4986	<u>25030</u>	19100	14220	3477	1577	1514	7383
1943-44	1851	2230	3312	2645	2934	2512	6843	6026	2884	1449	1521	1526	2974
1944-45	1735	1881	1754	3201	5341	6753	9320	18430	6967	2672	1019	1378	5036
1945-46	1845	3391	5326	8295	4497	8439	17470	22880	9727	2576	1059	1190	7239
1946-47	1691	4682	13090	7191	9887	9785	13900	16200	5980	2842	1134	1516	7313
1947-48	3349	4095	5830	9049	5489	7021	15120	29080	22740	3330	<u>2416</u>	1519	9086
1948-49	2148	2116	3689	3444	3746	11090	20090	28590	8271	2068	1362	1007	7324
1949-50	1524	3238	3934	4907	6846	17490	20670	25250	24280	<u>7706</u>	2025	1280	9929
1950-51	2752	4985	9681	8783	<u>16420</u>	8311	16000	17530	6840	2302	1035	1156	7921
1951-52	3421	4299	6006	5118	5908	4790	18220	23270	6989	2719	1206	1833	6978
1952-53	1934	2227	2408	6429	11600	6425	9164	19330	13570	2098	1261	1669	6466
1953-54	2387	2422	3830	4541	7248	9645	14370	23920	15110	3487	1939	1773	7549
1954-55	3396	4230	3901	2762	3195	2919	9287	20000	17560	3895	1565	1598	6196
1955-56	<u>3527</u>	6142	12360	10950	5598	7262	23810	29390	15100	2849	1712	1849	10050
1956-57	3030	3586	4165	4155	2794	9768	16090	28060	12590	2277	1349	1344	7462
1957-58	2537	2981	3139	3424	8895	9120	15080	20290	6801	1987	1002	1534	6375
1958-59	1911	5885	8946	13160	8865	7538	16930	21850	15190	2349	1315	2279	8838
1959-60	3521	<u>8164</u>	6931	5003	6068	7608	21920	17350	10590	2181	1452	<u>2303</u>	7734
1960-61	2338	2678	3735	3892	16160	15260	14550	20350	13830	1906	1018	1341	8022
1961-62	1580	2544	2461	4274	5649	5068	19190	19580	9363	2308	1215	1162	6184
1962-63	2323	3843	7137	5982	10070	7934	12920	11460	4184	1765	908	988	5760
1963-64	<u>1315</u>	2789	3044	3210	3941	3440	11880	21490	22910	3473	1936	1815	6753
1964-65	2043	3439	14500	10820	12110	10540	17280	22610	10830	2899	1819	1544	9189
1965-66	1732	3301	3166	4006	2801	6476	16490	14540	5074	1993	936	<u>932</u>	5125
1966-67	1932	2464	4414	7125	9977	6742	9664	17790	15130	2138	1017	1393	6615
1967-68	2096	2706	3498	3912	9900	12870	8569	8608	5842	1917	1206	1774	5222
1968-69	3455	6101	7452	9524	5463	6165	23070	24090	8873	2426	1360	1803	8320
1969-70	2088	2193	2545	3424	8281	8162	9736	18580	14430	2473	1687	1718	6252
1970-71	2125	2847	4039	5411	13300	7816	13560	26850	17890	4180	1813	2138	8451
1971-72	2215	2711	3064	4302	7519	<u>25380</u>	17550	25280	21050	3665	2043	1723	9709
1972-73	2050	2045	3011	5295	4916	4736	5647	5983	3505	<u>1270</u>	764	1629	3394
1973-74	1940	3230	10440	20930	14940	9919	21910	26270	<u>27780</u>	6618	2060	2080	<u>12310</u>
1974-75	2322	2689	2618	3297	3950	6856	7974	23170	19460	3879	2105	2244	6721
1975-76	2705	3824	9142	8825	7179	6735	16790	24510	10040	3316	2035	2068	8102
1976-77	2330	2212	1948	2133	2024	2560	<u>3865</u>	<u>5770</u>	3453	1285	919	1585	<u>2508</u>
1977-78	1985	2449	12050	6052	6685	9574	15850	15060	7251	2953	1653	2042	6970
1978-79	2082	1973	1902	1907	2668	8172	11400	23200	6419	1910	1045	1723	5389
1979-80	1787	2022	2318	3748	3449	6146	9262	13330	9569	2825	1459	1973	4822
1980-81	2042	2294	6934	10140	10320	7009	9891	12490	10150	3684	1325	1754	6477
1981-82	2080	2714	4060	3506	14840	18750	14400	19310	12830	3483	1465	1916	8229
1982-83	2389	3238	4486	7364	8712	15570	10900	12750	8159	4287	2057	1880	6810
1983-84	2235	3588	5254	6645	8123	10790	13780	14690	14390	3600	1543	2096	7209
1984-85	2240	3115	4035	2470	1973	3537	16680	18430	10870	2033	1342	2116	5740
1985-86	2485	4764	3840	2514	7423	18550	13200	9569	4334	1623	806	1381	5862
1986-87	2590	2894	3875	2847	3342	9397	10760	8664	<u>2532</u>	1408	839	1359	4214
1987-88	1503	1650	2578	2183	2192	4679	13710	7761	3925	1533	<u>653</u>	1028	3608
1988-89	1642	2770	3136	2816	2480	7215	19620	16790	6905	1897	1374	1630	5693
MEAN	2129	3148	5034	5481	6384	8276	14430	18020	10330	2639	1448	1631	6571
MEDIAN	2043	2770	3875	4302	5463	7262	14370	19100	8873	2329	1462	1630	6721

UPF3H

USGS # 12422150

UPPER FALLS

River: SPOKANE

Drainage Area:

4290 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

76.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										2333	1257	1219	
1928-29	1463	1675	1459	1221	<u>1226</u>	3788	8325	13050	5544	1747	887	1026	3461
1929-30	1212	1075	1920	<u>1063</u>	4109	4559	11710	7459	4390	1353	754	912	3358
1930-31	1168	1446	<u>1107</u>	1711	2450	7292	14400	11240	2692	969	627	979	3840
1931-32	1066	1398	1534	2284	3764	13540	26790	29070	10190	2590	1180	1072	7874
1932-33	1432	5690	5008	4856	2496	7070	19450	21150	19160	3834	1458	1421	7756
1933-34	2991	6755	<u>30530</u>	21280	10850	16130	20110	7956	3052	1350	940	1139	10280
1934-35	1964	4111	4559	5876	6172	8612	18460	22100	8353	2371	1260	1238	7087
1935-36	1346	1342	1377	2457	1652	6266	24030	17050	6053	1827	1075	1285	5472
1936-37	1233	1088	1660	1177	1425	4211	15300	19160	6864	2096	1127	1165	4721
1937-38	1321	3221	5587	7262	4394	11020	23830	16520	6537	1881	1105	1179	6990
1938-39	1416	1588	1998	2304	2237	7732	18240	13950	4068	1671	939	1073	4773
1939-40	1235	1192	2493	2172	6786	14120	14710	10280	3073	1267	860	1237	4940
1940-41	1508	2105	4327	4429	4010	5637	<u>5639</u>	7309	4258	1419	861	1540	3586
1941-42	1908	3480	9689	3763	4620	5432	13870	9355	6507	2997	952	835	5280
1942-43	1177	4138	4220	3732	3868	7189	28000	17500	12210	4298	1280	1063	7375
1943-44	1609	1620	2882	1850	2278	<u>2730</u>	8634	7409	2924	<u>923</u>	808	1043	2889
1944-45	1211	1412	1539	4203	5542	7033	9957	19610	6592	1728	948	1404	5097
1945-46	1465	3561	5606	7275	4277	10250	21190	20670	7647	2496	1039	1130	7229
1946-47	1791	5502	13080	6471	9587	10220	15600	15000	6320	1912	1114	1406	7317
1947-48	3539	4895	5100	8249	6129	6391	20000	<u>32610</u>	14920	4293	<u>2431</u>	1415	9168
1948-49	1512	2482	2568	2125	5377	11460	25010	26250	6740	2037	1077	1333	7330
1949-50	1508	3214	3464	4365	7797	17550	22540	27500	21350	<u>6597</u>	2009	1352	9931
1950-51	2651	5098	10040	7620	16470	7477	18090	17100	6734	2365	1019	1173	7920
1951-52	3366	4013	5516	3505	5899	5811	24480	18800	6821	2680	1159	1038	6905
1952-53	1315	1443	1783	8369	10910	6461	12740	18140	11930	2949	1253	832	6472
1953-54	1406	1982	3950	4448	8601	8821	17880	24560	11760	4497	1947	1781	7619
1954-55	1926	3656	3027	2534	3458	3073	11310	22840	14330	4929	1597	1210	6164
1955-56	3152	6797	14400	8319	4265	9509	<u>29340</u>	27660	10470	3406	1650	1379	10040
1956-57	2157	2579	4787	2769	4235	10590	18100	30400	8829	2622	1341	988	7474
1957-58	1678	2071	2793	3894	11560	7304	17410	20200	5911	2026	886	992	6350
1958-59	1613	6696	8842	14390	6197	7875	19540	21520	13120	3200	1401	<u>1899</u>	8863
1959-60	<u>3742</u>	<u>8568</u>	5828	3914	6697	10570	20220	17640	10090	2419	1444	1273	7681
1960-61	1788	3350	2677	3901	<u>20910</u>	12240	14730	23260	10920	2260	1096	917	8072
1961-62	1601	1572	2334	3377	5850	5920	22780	18150	8567	2301	1254	1146	6216
1962-63	2036	4059	6399	4475	11510	8014	12990	11660	4852	1757	901	988	5757
1963-64	1068	2213	2181	2779	2995	4144	14390	24460	19010	4200	1881	1815	6755
1964-65	1845	3493	16770	8735	10990	9622	24100	18480	10230	2930	1843	1520	9192
1965-66	1310	2094	2301	3708	2446	8753	16450	14520	5967	1985	912	844	5116
1966-67	956	2231	5019	7838	7870	7355	9889	20920	12230	2812	1049	708	6566
1967-68	1669	2480	2718	3695	14140	10140	7848	10090	6129	1925	1214	1830	5283
1968-69	3121	6255	6440	9236	4332	8688	26660	21630	7791	2363	937	1138	8223
1969-70	1542	1555	2051	5169	8056	7921	10010	21500	12170	2919	1214	1198	6261
1970-71	1594	2608	3180	7679	12440	7540	15980	28580	14110	5115	1820	1324	8466
1971-72	1740	2051	2365	5694	9293	<u>26910</u>	15300	29470	16140	4424	1730	1378	9721
1972-73	1465	1751	3336	5375	3126	5229	6188	7647	3577	1286	<u>363</u>	861	3355
1973-74	1295	4161	10600	<u>24280</u>	10310	12130	24510	25940	<u>25760</u>	5762	1913	1274	<u>12330</u>
1974-75	1517	2134	2252	3310	3873	7280	9961	25170	16820	4782	1973	1392	6719
1975-76	2050	3361	10710	8399	6500	6531	18790	25040	9320	3262	1996	1215	8105
1976-77	1472	1607	1556	1571	1947	2770	6362	<u>6757</u>	3177	1246	558	997	<u>2500</u>
1977-78	1394	2800	12580	5324	6650	11990	14510	14840	7944	2851	1401	1272	6970
1978-79	1323	1455	1369	1267	3692	9498	13240	22820	6208	1824	820	784	5371
1979-80	1203	1248	2623	3188	4024	6173	12320	12830	9277	2802	1184	1283	4838
1980-81	1247	2180	11600	6669	10970	6349	11190	11900	10270	3645	1310	843	6482
1981-82	1450	2072	3931	3382	20890	14790	15850	19680	11580	3840	1396	1135	8238
1982-83	1747	2513	4575	8315	9964	14700	11070	13710	7875	4264	2003	1313	6824
1983-84	1470	4410	3663	7990	7022	12150	13820	16400	13070	3623	1413	1282	7184
1984-85	1617	3184	2712	1974	2021	4783	18690	19080	10260	2072	1158	1396	5747
1985-86	2071	4361	2313	3063	11450	17610	12000	10590	4365	1670	783	901	5892
1986-87	1312	3478	2606	2100	3969	10550	12220	8687	<u>2604</u>	1447	808	<u>400</u>	4177
1987-88	<u>862</u>	<u>1072</u>	1842	1679	2594	6245	14550	8308	3941	1548	532	512	3631
1988-89	881	2287	2266	2671	2150	9672	22170	14950	7049	1920	1266	908	5685
MEAN	1684	3015	5044	5192	6579	8875	16450	18000	9027	2708	1232	1171	6572
MEDIAN	1508	2482	3180	3901	5542	7875	15600	18150	7875	2368	1170	1176	6719

UPF3A

USGS # 12425950 **NINE MILE**
Monthly mean historical streamflow in cfs.

River: SPOKANE

Drainage Area: 5204 Sq. Mi.
River Mile: 58.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										2939	2178	2007	
1928-29	2067	2153	2183	1968	<u>1915</u>	<u>2847</u>	7739	13950	6210	2209	1898	2079	3945
1929-30	1828	1834	1719	1886	3268	4442	11830	7927	4726	1880	1816	1795	3736
1930-31	1714	1699	1676	<u>1714</u>	2485	7308	14740	11980	3019	1636	1662	1702	4282
1931-32	1668	1539	<u>1612</u>	3223	3665	13650	25120	30320	14780	3009	1861	1793	8521
1932-33	1884	5887	5792	5862	3446	7400	15300	23660	22290	4891	1926	1879	8359
1933-34	3309	7542	<u>24180</u>	<u>26850</u>	15460	13920	21930	10710	3491	2002	1834	1747	11070
1934-35	1803	4693	5247	6736	7585	9217	15230	23630	11760	2814	2089	2245	7748
1935-36	2094	1612	1716	2621	2962	6802	16740	23010	6960	2271	2062	2142	5922
1936-37	2261	1686	1662	2002	1979	3630	12920	20570	8876	2487	1850	2152	5186
1937-38	1804	2737	6216	8672	5775	11520	19630	20440	8615	2397	1855	1993	7646
1938-39	2168	2183	1996	2617	3461	6307	16920	17360	4443	2342	2285	2136	5355
1939-40	1851	<u>1517</u>	2022	2679	6544	14200	16050	11520	3578	2036	1837	1837	5464
1940-41	1951	2228	4630	5806	5126	5601	4810	7438	5108	1890	1827	1973	4029
1941-42	2433	3966	10280	4857	6026	5864	13130	9710	6687	3386	1525	1546	5776
1942-43	1778	4514	5154	4988	4994	6111	<u>27150</u>	20140	14740	3918	1875	1891	8087
1943-44	2211	2598	3637	3002	3476	3101	7299	6523	3336	1749	1800	1823	3375
1944-45	2037	2202	2070	3562	5859	7755	9991	19160	7665	2999	1318	1708	5526
1945-46	2136	3721	5927	9107	5345	9819	18700	24040	10370	2968	1380	1620	7925
1946-47	2005	4984	13650	7890	10600	10540	14580	17040	6471	3224	1459	1846	7844
1947-48	3765	4586	6608	10220	6576	8030	16440	<u>32010</u>	24520	3858	<u>2782</u>	1823	10100
1948-49	2515	2527	4087	3617	5394	12980	20470	28540	8894	2419	1628	1266	7877
1949-50	1814	3561	4501	5440	8864	19150	20660	25080	24200	<u>8291</u>	2375	1583	10450
1950-51	2899	5119	9922	9411	<u>17680</u>	9082	16360	17900	7185	2578	1207	<u>1217</u>	8314
1951-52	3387	4308	6133	5054	7027	6224	19200	23940	7346	3018	1370	1932	7405
1952-53	2255	2597	2828	7336	12470	7089	9665	20130	14210	2511	1660	2024	7020
1953-54	2787	2823	4356	5147	8400	10450	15160	24670	15750	3777	2236	2125	8129
1954-55	3701	4571	4309	3216	3808	3535	9818	20170	17770	4169	1818	1913	6568
1955-56	3711	6488	13530	12080	6005	8925	25290	30630	15990	3134	2070	2134	10840
1956-57	3322	3877	4471	4535	3667	10560	16800	29270	13320	2516	1669	1635	7995
1957-58	2917	3368	3550	4229	10240	9852	16050	20690	7182	2372	1328	1859	6941
1958-59	2256	6235	9580	14720	9609	8653	17590	22420	15830	2797	1641	<u>2691</u>	9487
1959-60	<u>3910</u>	<u>8596</u>	7391	5480	6959	8363	22590	17870	11060	2537	1773	2626	8238
1960-61	2662	3065	4120	4422	17630	16320	15150	20830	14270	2225	1368	1696	8574
1961-62	1928	2881	2867	4674	6319	5909	19490	20150	9777	2534	1504	1486	6609
1962-63	2688	4151	7511	6340	11050	8510	13330	11760	4410	1984	1155	1253	6143
1963-64	<u>1622</u>	3132	3362	3613	4512	4301	12270	21740	23260	3859	2231	2136	7151
1964-65	2355	3788	15100	11710	13080	11200	17970	22910	11170	3247	2177	1902	9700
1965-66	2090	3688	3631	4577	3429	7262	16580	14690	5520	2344	1263	1258	5531
1966-67	2266	2882	5005	8084	10830	7608	10330	18410	15750	2527	1312	1730	7194
1967-68	2461	3108	3984	4546	10850	13640	9074	9092	6341	2252	1490	2086	5722
1968-69	3832	6535	7946	10230	6052	7728	24250	24750	9464	2815	1684	2140	8958
1969-70	2428	2529	2933	4259	9403	9123	10320	18900	15020	2839	1987	2040	6786
1970-71	2472	3213	4456	6234	13970	8738	14200	26850	18420	4591	2105	2482	8930
1971-72	2587	3090	3498	5059	8511	<u>26040</u>	18180	25300	21240	4029	2364	2022	10160
1972-73	2346	2361	3414	5838	5346	5255	5970	6238	3797	1564	1056	1896	3746
1973-74	2222	3687	11710	22320	15810	11010	22580	26150	<u>27640</u>	7033	2367	2385	<u>12870</u>
1974-75	2643	3068	3015	3816	4680	8095	8974	23480	20010	4358	2461	2580	7270
1975-76	3101	4235	9960	9667	7984	7585	17720	24770	10580	3728	2428	2426	8685
1976-77	2695	2606	2278	2580	2394	2950	<u>4190</u>	<u>6019</u>	3760	<u>1552</u>	1235	1884	<u>2846</u>
1977-78	2279	2771	12470	6582	7494	10230	16470	15680	7767	3359	2043	2417	7464
1978-79	2441	2356	2284	2359	3821	9034	11930	23530	6886	2272	1332	2052	5875
1979-80	2129	2379	2711	4281	4213	6750	9702	13820	10210	3259	1776	2311	5292
1980-81	2363	2641	7329	10690	11230	7649	10600	13120	10740	4125	1610	2064	6984
1981-82	2462	3021	4474	4068	15900	19670	15180	19620	13280	3862	1761	2240	8741
1982-83	2705	3607	5026	8107	9708	16760	11680	13200	8591	4690	2404	2213	7382
1983-84	2584	4120	5774	7564	8989	11970	14720	15300	15030	4020	1891	2441	7847
1984-85	2621	3572	4507	3030	2555	4541	17250	18790	11300	2367	1642	2462	6224
1985-86	2853	5121	4238	3286	8328	19300	13820	10110	4777	1943	1121	1708	6368
1986-87	2937	3285	4275	3373	4052	10140	11280	9115	<u>2864</u>	1726	1155	1654	4659
1987-88	1814	1978	3014	2769	2781	5182	13980	8156	4309	1873	<u>953</u>	1332	4004
1988-89	1961	3154	3525	3347	3014	8514	20200	17320	7376	2244	1687	1979	6198
MEAN	2455	3508	5525	6130	7223	9242	15140	18560	10820	3004	1765	1952	7100
MEDIAN	2355	3132	4356	4857	6052	8510	15180	19620	9464	2687	1788	1952	7194

NIN3H

USGS # 12425950

NINE MILE

River: SPOKANE

Drainage Area:

5204 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

58.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										2791	1666	1622	
1928-29	1841	2071	1888	1630	<u>1652</u>	4588	8904	13510	6027	2088	1243	1382	3913
1929-30	1564	1448	2277	<u>1355</u>	4725	4975	12260	7881	4720	1712	1127	1286	3757
1930-31	1496	1791	<u>1447</u>	2085	2879	7992	15250	11700	3089	1249	918	1290	4266
1931-32	1364	1702	1913	2851	4927	15610	28120	29600	10880	3004	1530	1424	8575
1932-33	1755	5883	5583	5676	2923	8803	20670	21930	19640	4281	1789	1773	8398
1933-34	3263	7103	<u>31810</u>	22700	11990	17090	21110	8713	3470	1685	1294	1453	11000
1934-35	2354	4532	5131	6923	7147	9745	19620	22740	8915	2774	1604	1525	7746
1935-36	1705	1693	1777	3051	2084	7277	24340	17420	6566	2166	1405	1587	5915
1936-37	1556	1401	1969	1429	1829	5127	16300	19940	7388	2446	1448	1481	5205
1937-38	1631	3550	6139	8290	5215	12900	24560	17120	7122	2254	1426	1507	7646
1938-39	1786	1979	2389	2781	2732	8897	18810	14680	4512	2036	1294	1426	5282
1939-40	1552	1558	2870	2542	8078	15250	15620	10960	3536	1624	1191	1576	5516
1940-41	1876	2535	5145	5455	4851	6362	<u>6188</u>	7832	4750	1751	1170	1852	4145
1941-42	2218	3873	10320	4316	5471	6156	14540	9931	7051	3425	1264	1137	5802
1942-43	1459	4592	4803	4276	4547	8313	30120	18540	12720	4740	1579	1441	8079
1943-44	1969	1988	3207	2207	2820	3319	9090	7905	3377	<u>1223</u>	1087	1340	3290
1944-45	1513	1732	1855	4564	6061	8036	10630	20340	7289	2056	1247	1734	5587
1945-46	1756	3891	6207	8087	5125	11430	22420	21830	8292	2888	1360	1560	7914
1946-47	2105	5804	13640	7170	10300	10980	16280	15840	6811	2294	1439	1736	7848
1947-48	3955	5386	5878	9424	7216	7400	21320	<u>35540</u>	16700	4821	<u>2797</u>	1719	10180
1948-49	1879	2893	2966	2298	7025	13360	25390	26200	7363	2388	1343	1592	7883
1949-50	1798	3537	4031	4898	9815	19210	22530	27320	21270	<u>7182</u>	2359	1655	10450
1950-51	2798	5232	10290	8248	17730	8248	18450	17480	7079	2641	1191	1234	8313
1951-52	3332	4022	5643	3441	7018	7245	25460	19460	7178	2979	1323	1137	7332
1952-53	1636	1813	2203	9276	11780	7124	13250	18940	12570	3362	1652	1187	7026
1953-54	1807	2383	4476	5054	9754	9631	18660	25310	12390	4787	2243	2133	8199
1954-55	2230	3996	3436	2988	4071	3689	11840	23010	14550	5203	1849	1525	6536
1955-56	3335	7143	15560	9451	4673	11170	<u>30820</u>	28890	11370	3691	2007	1664	10830
1956-57	2449	2871	5092	3149	5108	11380	18800	31610	9564	2861	1661	1279	8008
1957-58	2059	2458	3204	4699	12900	8037	18400	20610	6293	2411	1212	1317	6916
1958-59	1959	7045	9456	15940	6941	8989	20200	22080	13760	3647	1727	<u>2311</u>	9512
1959-60	<u>4130</u>	<u>8999</u>	6289	4391	7588	11320	20890	18160	10560	2775	1765	1595	8184
1960-61	2112	3736	3062	4431	<u>22380</u>	13290	15330	23730	11360	2578	1447	1271	8624
1961-62	1949	1909	2740	3777	6521	6761	23080	18710	8981	2526	1543	1469	6641
1962-63	2402	4367	6772	4832	12490	8590	13400	11970	5077	1976	1148	1253	6140
1963-64	1375	2556	2499	3183	3566	5004	14780	24710	19370	4586	2176	2136	7153
1964-65	2158	3842	17370	9618	11960	10280	24790	18780	10570	3278	2200	1878	9703
1965-66	1668	2481	2766	4278	3074	9538	16540	14670	6413	2336	1239	1170	5522
1966-67	1291	2649	5610	8797	8728	8221	10550	21550	12860	3201	1343	1044	7144
1967-68	2034	2882	3204	4329	15090	10900	8352	10570	6628	2260	1497	2143	5783
1968-69	3498	6688	6934	9939	4922	10250	27840	22290	8381	2752	1261	1475	8861
1969-70	1882	1892	2439	6004	9179	8882	10590	21830	12750	3285	1514	1520	6796
1970-71	1941	2974	3597	8502	13110	8462	16630	28580	14640	5525	2113	1669	8944
1971-72	2111	2430	2799	6451	10280	<u>27570</u>	15930	29490	16340	4787	2051	1678	10170
1972-73	1761	2067	3739	5918	3555	5748	6512	7902	3869	1580	<u>655</u>	1128	3707
1973-74	1577	4619	11870	<u>25670</u>	11180	13220	25190	25810	<u>25610</u>	6177	2219	1579	<u>12890</u>
1974-75	1837	2513	2648	3829	4602	8518	10960	25470	17380	5261	2329	1728	7268
1975-76	2445	3772	11530	9242	7305	7381	19720	25300	9857	3673	2389	1573	8689
1976-77	1838	2001	1886	2018	2317	<u>3159</u>	6688	<u>7006</u>	3484	1513	873	1296	<u>2839</u>
1977-78	1688	3121	13000	5855	7459	12650	15130	15460	8460	3257	1791	1647	7463
1978-79	1682	1838	1751	1719	4846	10360	13770	23140	6675	2186	1107	1113	5857
1979-80	1544	1606	3016	3721	4788	6777	12760	13320	9922	3236	1502	1621	5308
1980-81	1568	2527	12000	7215	11880	6989	11900	12520	10860	4086	1594	1153	6989
1981-82	1833	2379	4346	3944	21940	15720	16630	20000	12030	4219	1692	1459	8749
1982-83	2062	2882	5114	9058	10960	15890	11850	14160	8307	4666	2350	1646	7397
1983-84	1819	4943	4183	8909	7887	13330	14770	17010	13720	4043	1761	1628	7822
1984-85	1999	3641	3184	2534	2603	5787	19260	19440	10700	2406	1458	1743	6231
1985-86	2439	4718	2711	3835	12360	18350	12620	11130	4809	1989	1098	1228	6398
1986-87	1659	3868	3005	2627	4679	11290	12730	9138	<u>2955</u>	1765	1124	<u>695</u>	4623
1987-88	<u>1173</u>	<u>1400</u>	2278	2265	3183	6747	14830	8704	4325	1889	832	816	4027
1988-89	1201	2671	2655	3202	2683	10970	22750	15480	7520	2267	1578	1257	6189
MEAN	2011	3375	5534	5842	7418	9841	17160	18540	9519	3073	1550	1492	7101
MEDIAN	1838	2882	3597	4431	6521	8882	16300	18780	8381	2774	1478	1514	7153

NIN3A

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										3400	2800	2410	
1928-29	2480	2500	2620	2440	2640	<u>3520</u>	8300	14400	6510	2550	2270	2410	4395
1929-30	2258	2389	<u>1904</u>	2277	3981	<u>5717</u>	12040	7758	4866	2254	2154	2177	4136
1930-31	2038	2040	2083	<u>2025</u>	2937	8070	15810	12380	3445	1848	1970	2058	4711
1931-32	1933	<u>1843</u>	2015	3847	4981	15670	26550	30770	15230	3423	2254	2154	9221
1932-33	2159	6141	6347	6714	3864	9205	18510	24550	22630	5254	2245	2248	9000
1933-34	3724	7814	<u>25580</u>	<u>28270</u>	16420	14970	22910	11360	3917	2357	2254	1994	11790
1934-35	2193	5165	5853	7901	8467	10320	16420	24230	12240	3205	2509	2473	8407
1935-36	2466	1943	2085	3247	3477	7960	17030	23240	7385	2630	2442	2434	6368
1936-37	2610	1979	1964	2398	2687	4511	13550	21390	9273	2921	2294	2312	5670
1937-38	2163	3025	6710	9753	6567	13570	20440	20900	9041	2787	2260	2312	8304
1938-39	2487	2626	2322	3182	4018	7503	17490	17900	4854	2750	2772	2516	5873
1939-40	1996	2059	2341	2991	7914	15250	16960	12140	4103	2358	2245	2108	6026
1940-41	2358	2689	5415	6777	5975	6322	5573	7743	5595	2316	2106	2249	4588
1941-42	2774	4315	10940	5410	7004	6473	13850	10200	7226	3899	1891	1895	6311
1942-43	<u>1868</u>	5013	5737	5552	5648	7327	<u>29410</u>	21000	15200	4444	2120	2397	8789
1943-44	2490	3032	3974	3217	4740	3966	6751	7049	3932	1942	2090	2072	3764
1944-45	2326	2571	2384	3912	6399	8759	10630	20070	8268	3226	1600	2043	6012
1945-46	2499	4021	6583	9843	6186	10810	19970	25180	10990	3394	1618	2115	8613
1946-47	2244	5328	14190	8617	11300	11280	15360	17750	7015	3600	1791	2161	8373
1947-48	4281	4949	7427	11390	7790	8701	17870	<u>33520</u>	25650	4275	<u>3178</u>	2250	10940
1948-49	3030	3048	4527	4081	6026	14110	21710	30500	9072	2633	2098	1529	8547
1949-50	2164	3914	4678	5739	9055	21530	23000	26440	25330	<u>7951</u>	2664	1936	11190
1950-51	3487	5867	11150	10230	18880	10090	17810	19060	8073	3011	1859	1769	9205
1951-52	4278	5254	7058	5739	8001	7492	20780	24530	8088	3595	1821	2374	8243
1952-53	2576	2981	3269	8318	13250	7755	10260	20860	14870	2870	2157	2282	7575
1953-54	3256	3148	4945	5747	9611	11180	18000	25550	16180	4212	2368	2481	8708
1954-55	3996	4957	4979	4166	4664	4688	8756	20370	18000	4384	2063	2257	6942
1955-56	3889	6815	14760	13140	6506	10660	26850	31820	16770	3342	2464	2375	11630
1956-57	3636	4413	4554	5474	4683	10720	17440	30660	13920	2658	2006	1909	8529
1957-58	3309	3760	3974	5115	11540	10510	17120	21070	7539	2758	1646	2158	7508
1958-59	2683	6498	10200	16430	10180	9768	18290	23000	16420	3296	1889	3105	10140
1959-60	<u>4327</u>	<u>9065</u>	7780	6170	7841	9417	23370	17800	11530	2887	2084	<u>3122</u>	8756
1960-61	2862	3455	4572	5047	<u>19500</u>	17380	15560	20970	14680	2557	1710	2135	9119
1961-62	2230	3214	3216	5215	7523	7498	19020	20140	10140	2760	1831	1834	7031
1962-63	3058	4399	7879	6892	11940	10480	12990	11320	4635	2221	1424	<u>1476</u>	6523
1963-64	1949	3506	3672	3982	6013	5639	11300	22010	23560	4252	2487	2493	7552
1964-65	2638	4118	15820	12570	13990	11860	18740	23160	11470	3596	2516	2308	10210
1965-66	2408	4108	4123	5790	4733	7691	15720	14820	5997	2660	1573	1575	5933
1966-67	2602	3302	5582	9095	11650	9182	10280	19070	16320	2916	1604	2089	7774
1967-68	2828	3491	4500	5571	12030	14480	9046	9389	6825	2637	1721	2399	6220
1968-69	4231	6939	8448	10960	6682	9815	24930	25350	9997	3262	1983	2464	9596
1969-70	2810	2848	3324	5103	10560	10780	10160	19210	15580	3213	2279	2369	7322
1970-71	2833	3538	4913	7052	14650	10310	14200	26850	18920	5019	2380	2816	9408
1971-72	2961	3488	3911	5824	9657	<u>27400</u>	18060	25250	21400	4381	2698	2294	10610
1972-73	2656	2705	3755	6405	6215	6035	5881	6232	4099	1849	1356	2143	4098
1973-74	2525	4173	12940	23830	16590	12730	22650	26010	<u>27480</u>	7449	2641	2742	<u>13450</u>
1974-75	2900	3488	3367	4929	6385	8471	9367	24110	20190	4838	2805	2919	7813
1975-76	3522	4675	10740	10490	8819	9089	17980	25050	11090	4120	2828	2770	9269
1976-77	3054	3042	2598	3877	<u>2118</u>	3808	<u>4206</u>	<u>5812</u>	4084	<u>1798</u>	1565	2173	<u>3184</u>
1977-78	2576	3090	12890	7128	8264	10960	17030	16310	8261	3775	2418	2779	7956
1978-79	2822	2872	2763	3564	5074	8838	12480	23830	7345	2614	1645	2374	6364
1979-80	2460	2775	3074	5315	5630	6436	10040	14250	10800	3695	2104	2670	5763
1980-81	2666	2996	7799	11150	12150	8271	11410	13640	11340	4577	1897	2387	7491
1981-82	2844	3313	4882	5223	16450	20470	15970	19970	13660	4294	2032	2622	9256
1982-83	2951	3969	5576	8844	10710	17960	12460	13650	8998	5113	2760	2520	7948
1983-84	2925	4642	6315	8478	9846	13180	15680	16080	15450	4467	2287	2813	8493
1984-85	3017	4018	5093	4683	3495	4739	17030	19150	11690	2743	1905	2896	6707
1985-86	3214	5493	4867	4636	8506	19800	14420	10670	5216	2252	1435	2061	6869
1986-87	3252	3672	4677	4991	5271	9348	11810	9551	<u>3231</u>	2065	1435	1970	5104
1987-88	2113	2318	3820	4514	3419	4930	13430	8523	4714	2185	<u>1251</u>	1635	4397
1988-89	2283	3605	3874	4144	4364	8811	20830	17780	7855	2612	1956	2344	6703
MEAN	2806	3908	6054	6974	8122	10230	15690	19070	11280	3360	2102	2293	7646
MEDIAN	2666	3506	4867	5571	7004	9348	15970	20070	9997	3108	2101	2301	7774

USGS # 12432510

LONG LAKE

River: SPOKANE

Drainage Area: 6020 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 33.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-3	-12	0	
1928-29	-35	49	-8	-63	-299	128	18	11	183	0	-16	25	1
1929-30	-78	-182	172	-99	-96	-859	334	591	190	-15	35	-8	-1
1930-31	4	4	-67	63	-23	-62	-19	66	-29	67	-16	-45	-4
1931-32	32	0	-24	-58	-153	48	-100	70	250	0	-42	-8	2
1932-33	47	-61	20	-33	9	-72	11	-114	134	85	12	-17	2
1933-34	-142	76	-122	-3	181	-85	32	109	-8	-20	-65	67	0
1934-35	0	-51	-35	-118	93	30	-34	33	88	11	-76	60	-1
1935-36	-12	20	32	-32	-83	-147	22	141	88	-20	-50	11	-2
1936-37	-26	20	7	-145	-303	35	370	-42	128	-85	-122	156	0
1937-38	-50	40	58	-54	30	-172	-77	139	160	-16	-85	8	-2
1938-39	50	-52	65	-89	-62	-31	-4	184	33	-42	-132	-27	-8
1939-40	172	-175	58	58	-78	84	4	63	-61	35	-76	67	14
1940-41	-39	-31	33	55	-9	4	-213	219	4	-94	30	36	0
1941-42	-31	45	-27	0	-128	115	-49	90	4	-86	-54	-47	-13
1942-43	192	-44	0	-20	25	-93	-129	186	49	-85	54	-128	1
1943-44	81	-66	-12	142	-721	-276	1004	-28	-143	107	-11	49	12
1944-45	13	-49	23	11	-21	-2	35	-185	94	101	18	-5	3
1945-46	-72	29	-55	76	7	-8	-49	28	27	-34	82	-66	-3
1946-47	76	-42	12	-27	5	27	-108	121	-53	6	-7	16	3
1947-48	-101	128	-40	8	-129	96	-107	-124	232	137	14	3	10
1948-49	-12	-25	-109	28	-256	83	-24	-3	277	55	-99	37	-3
1949-50	50	4	-4	-129	43	-155	-297	73	229	437	13	17	24
1950-51	27	1	-263	238	-56	61	-88	-16	104	6	-64	79	3
1951-52	-45	-114	22	112	3	-7	-288	207	97	-28	3	42	1
1952-53	0	-13	-21	-75	95	-2	-98	67	-20	53	-98	97	-2
1953-54	-68	76	-63	7	-59	83	-55	-134	208	-146	164	-4	1
1954-55	8	-46	-261	-495	-243	-537	1592	-38	-11	59	7	-30	-2
1955-56	5	18	-70	74	-94	-74	-86	46	114	78	-37	44	2
1956-57	-23	-245	222	-560	-144	628	59	-185	134	97	-18	18	0
1957-58	-12	-5	-14	-81	34	72	-82	30	25	-2	8	26	0
1958-59	-81	87	-27	-156	171	2	-34	-13	49	-52	78	-2	0
1959-60	-29	-38	72	-214	8	-300	-117	588	8	7	11	-174	-14
1960-61	124	-4	-67	-95	-392	-2	191	335	39	-13	9	-84	6
1961-62	46	3	57	-141	-533	-748	773	572	50	-1	-37	-24	4
1962-63	-4	60	6	-194	94	-1396	761	742	0	-18	-22	43	3
1963-64	-20	-30	8	35	-930	-477	1365	-29	48	-7	38	-36	-2
1964-65	29	18	-119	25	59	-9	-79	52	42	-1	18	-48	-1
1965-66	40	-33	-27	-642	-675	357	942	25	-31	34	17	10	5
1966-67	-1	-3	15	-52	43	-707	710	-42	53	0	2	-23	-3
1967-68	-2	18	-30	-392	-225	-73	532	187	15	-49	53	-1	3
1968-69	-23	29	-9	-29	-40	-524	508	59	57	-58	25	13	0
1969-70	-42	18	-2	-10	-34	-694	737	16	20	-8	9	-7	-2
1970-71	-15	40	-40	6	-4	-645	647	-2	30	-18	18	11	1
1971-72	-2	-19	20	-8	-154	-702	752	66	43	11	-13	27	0
1972-73	-14	-29	61	-24	-439	-262	413	260	-11	10	-7	19	1
1973-74	-22	-29	41	-124	100	-628	613	14	13	-1	32	-52	-6
1974-75	63	-42	44	-594	-976	862	607	-353	387	-2	11	-3	6
1975-76	-25	-29	37	18	-30	-654	667	-15	23	20	-7	13	0
1976-77	7	-43	11	-851	646	-468	310	456	-17	22	-15	10	0
1977-78	-3	2	-3	-16	39	-79	58	-18	23	-10	15	13	1
1978-79	-22	-133	-96	-754	-99	1059	-24	20	8	20	-26	8	-2
1979-80	10	-38	29	-502	-653	918	98	58	61	-2	-11	-22	-1
1980-81	19	-8	-75	85	-5	19	-95	102	-12	-11	-2	-14	1
1981-82	2	15	7	-594	502	126	-8	-34	69	-53	25	-59	-4
1982-83	69	8	-11	7	-9	-13	1	0	25	-20	-10	26	6
1983-84	8	10	-21	5	9	-33	-19	-164	227	-27	-47	-26	-7
1984-85	-14	12	-114	-1093	-357	805	785	7	46	-41	37	-87	0
1985-86	7	-14	-231	-578	729	238	17	-24	4	11	2	-26	5
1986-87	32	3	-2	-1091	-509	1528	-16	16	4	-22	36	-21	1
1987-88	12	-13	-371	-1159	-50	754	829	28	-21	28	2	2	2
1988-89	-3	-67	40	-265	-817	1002	-58	72	-8	-21	43	-16	-1
MEAN	3	-15	-21	-174	-114	-30	220	75	62	6	-6	-1	1

LLK3S

USGS # 12432510

LONG LAKE

River: SPOKANE

Drainage Area:

6020 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile:

33.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-151	-524	-385	
1928-29	-261	-34	-303	-402	-561	1869	1182	-425	1	-120	-672	-672	-31
1929-30	-342	-567	729	-631	1361	-326	761	544	184	-183	-654	-518	20
1930-31	-213	96	-297	434	371	622	500	-213	41	-321	-760	-457	-20
1931-32	-272	163	278	-429	1110	2006	2900	-655	-3643	-5	-373	-378	56
1932-33	-82	-66	-188	-219	-513	1331	5380	-1847	-2518	-526	-125	-123	40
1933-34	-188	-364	7503	-4151	-3283	3086	-786	-1892	-29	-337	-605	-226	-77
1934-35	550	-212	-150	69	-345	558	4358	-862	-2761	-29	-562	-661	-3
1935-36	-401	102	93	398	-960	328	7627	-5449	-307	-126	-706	-544	-9
1936-37	-730	-266	314	-718	-453	1532	3752	-678	-1360	-125	-523	-515	19
1937-38	-223	853	-19	-436	-530	1205	4861	-3175	-1333	-159	-513	-479	-2
1938-39	-331	-257	458	75	-791	2559	1884	-2496	102	-347	-1123	-737	-81
1939-40	-126	-134	907	-80	1455	1130	-429	-492	-104	-377	-722	-194	65
1940-41	-114	276	548	-295	-284	765	1165	612	-354	-232	-627	-85	116
1941-42	-245	-48	10	-540	-683	408	1360	311	368	-47	-314	-456	13
1942-43	-127	34	-350	-732	-422	2110	2843	-1412	-1968	737	-243	-578	-7
1943-44	-161	-676	-443	-653	-1377	-58	2795	1354	-103	-419	-724	-434	-73
1944-45	-511	-518	-192	1013	181	279	672	996	-281	-842	-53	21	64
1945-46	-452	199	225	-944	-213	1802	3671	-2182	-2053	-114	62	-126	-13
1946-47	176	778	2	-747	-295	467	1592	-1079	287	-924	-27	-94	7
1947-48	89	928	-770	-792	511	-534	4773	3406	-7588	1100	29	-101	92
1948-49	-648	341	-1230	-1291	1375	459	4903	-2340	-1254	24	-384	363	4
1949-50	34	-20	-474	-671	994	-101	1570	2319	-2702	-672	-3	89	26
1950-51	-74	114	101	-925	-4	-773	2003	-437	-2	69	-80	96	1
1951-52	-100	-400	-488	-1501	-6	1014	5970	-4265	-71	-67	-44	-753	-72
1952-53	-618	-798	-647	1865	-599	33	3483	-1119	-1664	904	-105	-740	4
1953-54	-1049	-364	57	-87	1295	-740	3450	508	-3146	864	172	4	71
1954-55	-1462	-621	-1135	-724	19	-383	3615	2799	-3237	1094	39	-418	-34
1955-56	-370	674	1965	-2553	-1426	2173	5447	-1690	-4510	635	-99	-426	-11
1956-57	-896	-1251	843	-1946	1297	1453	2065	2153	-3625	442	-26	-338	13
1957-58	-871	-915	-360	390	2696	-1744	2270	-53	-864	37	-108	-516	-25
1958-59	-378	897	-131	1073	-2497	338	2576	-350	-2017	798	164	-382	25
1959-60	191	366	-1031	-1302	637	2662	-1814	879	-490	244	3	-1205	-68
1960-61	-426	667	-1126	-87	4355	-3031	367	3244	-2871	340	87	-509	57
1961-62	67	-968	-70	-1039	-332	104	4361	-863	-746	-9	2	-41	35
1962-63	-291	276	-733	-1702	1531	-1315	831	950	668	-26	-30	43	0
1963-64	-268	-607	-855	-396	-1876	226	3875	2941	-3845	720	-17	-36	0
1964-65	-168	72	2155	-2064	-1065	-925	6744	-4078	-559	30	42	-72	1
1965-66	-382	-1240	-892	-941	-1030	2634	907	8	862	26	-6	-78	-4
1966-67	-977	-235	619	661	-2064	-95	935	3095	-2842	674	34	-708	-52
1967-68	-429	-208	-810	-609	4015	-2808	-190	1668	302	-41	61	56	63
1968-69	-357	183	-1021	-317	-1170	1998	4099	-2400	-1025	-120	-398	-652	-98
1969-70	-588	-619	-496	1736	-259	-935	1009	2941	-2244	438	-464	-527	8
1970-71	-546	-198	-899	2274	-867	-922	3074	1727	-3748	917	26	-803	15
1971-72	-478	-679	-678	1384	1620	828	-1499	4254	-4865	770	-326	-317	12
1972-73	-599	-322	387	56	-2230	232	954	1924	61	25	-409	-749	-38
1973-74	-667	903	201	3226	-4530	1579	3218	-318	-2010	-857	-116	-859	14
1974-75	-742	-597	-322	-581	-1054	1285	2594	1649	-2248	901	-121	-855	4
1975-76	-681	-492	1605	-408	-709	-859	2663	512	-700	-35	-45	-840	3
1976-77	-850	-648	-381	-1413	569	-258	2807	1442	-293	-17	-377	-577	-8
1977-78	-594	352	528	-743	4	2340	-1286	-234	716	-111	-237	-758	1
1978-79	-781	-651	-630	-1393	926	2385	1815	-368	-203	-66	-251	-932	-20
1979-80	-574	-812	334	-1062	-78	945	3156	-446	-231	-26	-285	-711	14
1980-81	-777	-122	4596	-3388	648	-642	1200	-491	108	-50	-18	-925	6
1981-82	-628	-627	-122	-718	6545	-3828	1443	343	-1182	304	-44	-840	4
1982-83	-574	-717	78	957	1243	-888	172	961	-259	-44	-63	-541	21
1983-84	-757	832	-1612	1350	-1093	1326	27	1547	-1089	-4	-177	-840	-32
1984-85	-637	81	-1437	-1589	-309	2051	2798	658	-563	-2	-147	-807	7
1985-86	-408	-417	-1758	-30	4760	-709	-1185	992	36	57	-22	-506	35
1986-87	-1246	587	-1272	-1837	118	2679	1437	39	76	17	5	-979	-36
1987-88	-629	-590	-1107	-1663	353	2320	1673	576	-5	44	-119	-514	25
1988-89	-764	-550	-830	-410	-1148	3460	2494	-1770	136	2	-66	-738	-10
MEAN	-442	-148	-12	-462	81	569	2244	54	-1239	76	-221	-461	2

LLK3SS

USGS # 12432510

LONG LAKE

River: SPOKANE

Drainage Area:

6020 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

33.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										3249	2076	2025	
1928-29	2219	2466	2317	2038	<u>2079</u>	5389	9482	13970	6511	2430	1598	1738	4364
1929-30	1916	1821	2633	<u>1647</u>	5342	5391	12800	8302	5050	2071	1499	1660	4156
1930-31	1825	2135	<u>1786</u>	2460	3307	8693	16110	12170	3486	1528	1210	1601	4691
1931-32	1661	2007	2293	3418	6090	17670	29450	30120	11580	3418	1880	1775	9277
1932-33	2078	6075	6158	8495	3351	10540	21890	22710	20110	4727	2120	2125	9039
1933-34	3536	7450	<u>33080</u>	24120	13140	18060	22120	9470	3888	2020	1648	1767	11710
1934-35	2743	4954	5703	7969	8122	10880	20780	23370	9476	3176	1948	1812	8404
1935-36	2065	2045	2178	3645	2517	8288	24650	17790	7078	2504	1736	1890	6359
1936-37	1879	<u>1713</u>	2278	1680	2234	6043	17310	20710	7913	2796	1770	1797	5689
1937-38	1940	3878	6691	9317	6037	14770	25300	17720	7707	2628	1747	1834	8302
1938-39	2156	2369	2780	3258	3228	10060	19380	15400	4955	2402	1649	1779	5791
1939-40	1870	1925	3247	2911	9369	16380	16530	11650	3999	1981	1523	1915	6091
1940-41	2244	2964	5963	6481	5691	7087	<u>6737</u>	8355	5241	2084	1479	2164	4704
1941-42	2528	4267	10950	4870	6321	6881	15210	10510	7594	3852	1577	1439	6324
1942-43	1741	5047	5386	4820	5226	9437	32250	19590	13230	5181	1877	1819	8783
1943-44	2329	2356	3531	2565	3363	3908	9546	8402	3829	<u>1523</u>	1366	1638	3691
1944-45	1815	2053	2171	4924	6580	9038	11300	21070	7987	2384	1547	2064	6076
1945-46	2047	4220	6808	8899	5973	12610	23640	23000	8937	3280	1680	1990	8600
1946-47	2419	6106	14190	7870	11000	11740	18950	16670	7302	2676	1764	2067	8379
1947-48	4370	5876	6656	10600	8302	8167	22640	<u>36920</u>	18070	5374	<u>3207</u>	2148	11030
1948-49	2381	3389	3297	2790	7401	14570	26610	28160	7818	2658	1714	1892	8550
1949-50	2198	3894	4204	5068	10050	21430	24570	28760	22630	<u>7278</u>	2661	2025	11220
1950-51	3412	5981	11250	9302	18870	9315	19820	18630	8072	3080	1778	1865	9206
1951-52	4178	4854	6590	4238	7995	8506	26750	20270	8016	3528	1777	1621	8171
1952-53	1957	2183	2623	10180	12650	7788	13750	19750	13210	3774	2052	1542	7579
1953-54	2207	2784	5002	5661	10910	10440	19450	26060	13030	5077	2540	2485	8779
1954-55	2534	4337	3844	3443	4683	4305	12370	23170	14770	5477	2102	1839	6909
1955-56	3519	7489	16730	10580	5080	12830	<u>32300</u>	30130	12260	3976	2365	1948	11620
1956-57	2740	3162	5398	3528	5980	12180	19510	32820	10300	3100	1981	1571	8541
1957-58	2439	2845	3615	5504	14240	8769	19390	21020	6675	2796	1538	1642	7483
1958-59	2305	7395	10070	17500	7686	10100	20870	22650	14410	4094	2053	<u>2724</u>	10160
1959-60	<u>4519</u>	<u>9431</u>	6749	4868	8479	12080	21560	18680	11040	3131	2086	1917	8688
1960-61	2436	4122	3447	4961	<u>23850</u>	14350	15920	24210	11810	2897	1797	1626	9176
1961-62	2298	2245	3147	4177	7191	7601	23380	19270	9395	2751	1833	1793	7066
1962-63	2768	4675	7146	5190	13470	9167	13820	12270	5303	2196	1395	1518	6523
1963-64	1681	2899	2817	3586	4137	5865	15170	24950	19720	4971	2471	2456	7552
1964-65	2470	4190	17970	10500	12930	10940	25480	19080	10910	3626	2557	2235	10210
1965-66	2026	2868	3231	4849	3703	10320	16630	14820	6860	2687	1567	1497	5929
1966-67	1625	3067	6201	9756	9585	9087	11220	22170	13480	3590	1637	1381	7723
1967-68	2399	3283	3690	4962	16040	11670	8856	11060	7127	2596	1781	2455	6283
1968-69	3874	7121	7427	10640	5512	11810	29030	22950	8972	3142	1585	1813	9498
1969-70	2221	2229	2828	6838	10300	9844	11170	22150	13340	3651	1815	1843	7330
1970-71	2287	3339	4014	9326	13780	9384	17270	28580	15170	5936	2405	2013	9423
1971-72	2483	2809	3232	7208	11280	<u>28230</u>	16560	29500	16530	5151	2372	1977	10620
1972-73	2057	2383	4142	6461	3985	6267	6835	8156	4161	1875	<u>947</u>	1395	4060
1973-74	1858	5076	13150	<u>27060</u>	12060	14310	25870	25690	<u>25470</u>	6591	2526	1884	<u>13460</u>
1974-75	2158	2891	3045	4348	5332	9756	11960	25760	17940	5739	2685	2064	7817
1975-76	2841	4183	12340	10080	8110	8230	20650	25560	10390	4085	2783	1930	9272
1976-77	2204	2394	2217	2465	2687	<u>3549</u>	7013	<u>7254</u>	3791	1781	1189	1596	<u>3177</u>
1977-78	1981	3442	13420	6385	8268	13300	15750	16080	8977	3663	2181	2021	7957
1978-79	2041	2221	2133	2170	5999	11220	14300	23460	7142	2547	1394	1442	6343
1979-80	1886	1963	3409	4254	5552	7381	13200	13810	10570	3669	1819	1959	5778
1980-81	1889	2874	12390	7761	12800	7629	12610	13150	11440	4527	1879	1463	7496
1981-82	2215	2686	4760	4506	22990	16640	17410	20310	12480	4597	1987	1782	9261
1982-83	2377	3251	5654	9802	11950	17080	12630	14610	8740	5069	2697	1979	7969
1983-84	2168	5475	4702	9828	8753	14510	15710	17610	14360	4463	2110	1973	8460
1984-85	2380	4099	3656	3094	3186	6790	19830	19810	11130	2741	1758	2089	6714
1985-86	2806	5075	3109	4607	13270	19090	13240	11670	5252	2309	1413	1555	6904
1986-87	2007	4258	3405	3154	5389	12030	13250	9590	<u>3306</u>	2083	1440	<u>990</u>	5068
1987-88	<u>1484</u>	1728	2713	2851	3772	7249	15100	9099	4709	2229	1132	1120	4422
1988-89	1520	3055	3043	3734	3216	12270	23330	16010	7990	2614	1890	1606	6693
MEAN	2364	3760	6043	6512	8203	10800	17940	19130	10040	3436	1881	1832	7648
MEDIAN	2215	3251	4014	4961	7191	10060	16950	19590	8972	3136	1789	1836	7723

LLK3A

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MID-COLUMBIA RIVER IN WASHINGTON

**GRAND COULEE
CHIEF JOSEPH
WELLS
CHELAN
ROCKY REACH
ROCK ISLAND
WANAPUM
PRIEST RAPIDS
YAKIMA RIVER**

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USGS # 12436100 **GRAND COULEE**
 Monthly mean historical streamflow in cfs.

River: COLUMBIA

Drainage Area: 74700 Sq. Mi.
 River Mile: 596.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										260000	144000	78600	
1928-29	52000	41300	32100	25200	21300	25600	38800	116000	270000	168000	111000	69500	81130
1929-30	<u>41130</u>	29240	23670	18790	23040	28470	71040	160000	222400	195100	124400	76990	84860
1930-31	45050	32610	26760	22590	24270	32050	55490	158100	220600	166000	104200	77890	80760
1931-32	43000	34060	28230	29940	25910	56270	114800	254300	333700	236600	130100	78800	114000
1932-33	47510	48180	51250	42620	30760	37530	68650	194000	392100	337200	166700	93130	126300
1933-34	63280	86630	98430	113900	79670	72430	168600	<u>315200</u>	311700	176100	117200	73800	<u>140000</u>
1934-35	45170	56900	51010	42770	50190	47800	67330	178100	322000	259400	145000	80610	112500
1935-36	47280	33370	27400	26590	21470	31640	77470	258800	301300	170800	106700	65950	97570
1936-37	41970	<u>28480</u>	<u>23200</u>	<u>18220</u>	<u>18200</u>	<u>23840</u>	44060	135500	243800	194500	109500	67810	79400
1937-38	42570	57270	46970	47310	37110	51070	99800	218800	344900	235500	101100	72920	113200
1938-39	54690	37670	31100	32810	30480	35150	86210	234200	235100	188500	110200	67410	95700
1939-40	48130	50650	44510	34890	38420	50510	100600	152300	241000	167000	94720	76180	91590
1940-41	54730	48490	36640	37090	36640	47870	75620	145300	141700	92890	89290	83390	74300
1941-42	75930	69040	93410	58780	49740	47190	73610	143700	256800	221000	119900	66510	106600
1942-43	48600	41690	42150	38830	39010	37360	139600	195400	286200	271300	128400	62240	111200
1943-44	49800	44960	37430	45890	40680	38210	<u>32020</u>	86450	192800	118900	91830	63060	<u>70190</u>
1944-45	55910	45700	41800	39020	38450	40600	44600	156900	278900	184300	92540	61430	90250
1945-46	41360	40530	39660	43790	39600	52420	103500	285200	357500	227400	116600	75080	118900
1946-47	46870	40510	55970	48680	54860	65470	96920	272500	314900	208700	110000	67010	115500
1947-48	86430	74880	52940	56430	53660	49980	72940	268400	<u>528600</u>	221300	131100	79410	139600
1948-49	56620	45800	42800	43730	42550	45740	100100	268300	254800	135200	88600	58870	98870
1949-50	45700	43390	51290	54390	56220	65170	91960	184900	367600	<u>355600</u>	134000	78700	127800
1950-51	61940	68250	69810	76640	86850	74350	111200	281700	306400	272400	129600	69140	134400
1951-52	74230	60710	60950	69980	63440	74130	73810	261200	256800	191900	99550	<u>58710</u>	112400
1952-53	52270	51050	47910	44350	64170	73890	75130	122200	308300	226600	111800	81170	105000
1953-54	68500	61920	54640	61640	56180	66030	58430	232500	358100	329600	164300	107000	135400
1954-55	65640	65110	64300	63310	71710	79200	71520	75320	290700	300200	133700	72470	113000
1955-56	62210	66190	62320	65480	65810	66740	176400	277900	399400	219600	113000	72030	137200
1956-57	64200	61400	54430	73280	64760	49230	69460	274500	289400	143700	92690	60160	108300
1957-58	59240	57510	52780	56920	62730	78530	85110	196000	298700	153600	87520	63840	104500
1958-59	62130	54610	58800	70980	75000	89840	110000	211400	336700	269100	124100	110400	131300
1959-60	104700	95530	77430	70680	67100	65980	147100	171800	245900	231500	113300	69360	121800
1960-61	62410	62560	54020	59180	84510	84740	102000	211700	420400	181000	96200	63670	123400
1961-62	60140	58460	51910	63280	70600	55970	106000	174900	247800	180600	115600	64420	104200
1962-63	61140	64380	73170	77170	78530	69120	95210	134700	243900	189000	102800	67770	104800
1963-64	55890	52930	51420	50750	67510	57510	58380	152700	341000	262100	118100	69660	111500
1964-65	80000	66630	65060	74060	98250	84550	104100	217700	276700	202200	122900	73370	122200
1965-66	62370	62820	67540	64770	74860	72280	66410	164800	250200	209000	102200	69380	105700
1966-67	64440	60020	68740	69350	70630	81260	85320	121400	372300	256600	113300	79580	120300
1967-68	68280	64470	81290	69190	64750	98630	93470	106800	233100	201300	106600	84480	106100
1968-69	70710	72980	86120	98860	110700	104700	<u>180800</u>	202500	207400	178300	99310	73280	123800
1969-70	77730	86190	91080	84840	73090	81520	88860	118100	154800	115100	97040	72040	95160
1970-71	75460	70910	74870	69560	92470	131400	117300	237300	258200	187700	124200	72900	126200
1971-72	69810	78660	97570	92170	102300	143100	145000	196800	310300	201500	140300	91150	139100
1972-73	74450	79740	100100	89280	93830	96020	96890	<u>65760</u>	75490	101000	101300	73490	87290
1973-74	72290	63800	90000	142800	139200	109200	139300	173600	207000	183500	126500	105900	129300
1974-75	89380	94150	95840	102100	116600	138300	121200	147100	125500	101200	95770	67160	107800
1975-76	76180	95230	97000	114600	139100	136500	129200	159300	144100	166500	<u>183600</u>	<u>121700</u>	130300
1976-77	<u>105000</u>	94720	96460	109100	93540	94240	64520	87220	<u>70600</u>	71210	78040	78820	87010
1977-78	64240	78160	74810	99610	100900	89750	130500	132200	95540	112600	90460	106400	97870
1978-79	96490	102600	97670	118900	108300	91590	99080	110600	90270	89070	89460	74100	97320
1979-80	78360	99610	90980	105400	93790	77970	66750	106300	147400	105100	89980	67550	94080
1980-81	68140	81100	108100	<u>146200</u>	126300	96220	88110	123600	211900	172200	135800	79490	119800
1981-82	80280	80800	92440	113700	119400	<u>185300</u>	151200	158700	159900	165400	119500	80060	125700
1982-83	74330	93980	86130	107500	<u>139900</u>	182700	140600	130900	108200	124200	116400	77480	115100
1983-84	71350	83910	114000	104100	130400	104900	128400	127800	112400	111100	101600	67790	104700
1984-85	74960	72600	95800	139300	137600	106000	83920	110800	84900	70850	62650	61980	91580
1985-86	82200	<u>107700</u>	<u>120600</u>	77670	92880	110800	132600	114600	105300	108700	93650	70570	101500
1986-87	74410	87320	96570	118400	91300	71390	82100	119900	101600	77760	81010	75670	89810
1987-88	88890	77680	100800	109200	95210	83950	64560	93240	87730	73110	77050	83310	86270
1988-89	77750	92460	119500	116000	101200	67560	77270	128900	86530	<u>63890</u>	<u>60490</u>	65220	88040
MEAN	65010	64920	67570	71520	72750	75530	95750	174000	243300	183700	110900	75450	108400
MEDIAN	64200	63800	64300	69190	70600	72280	91960	159300	250200	183900	110100	73100	107800

GCL3H

USGS # 12436100

GRAND COULEE

River: COLUMBIA

Drainage Area: 74700 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 596.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	1025	0	-543	-182	208	43
1938-39	-46	229	299	98	846	332	531	618	-42	81	114	479	290
1939-40	-78	50	-107	156	-167	5195	521	32445	-5070	-11707	539	-669	1803
1940-41	4564	-282	117	39	-216	468	5465	2488	38439	39380	2326	-218	7745
1941-42	1004	-3987	-10148	-402	-433	-2484	5571	20106	24472	5228	2214	-3878	3108
1942-43	-688	837	-2187	-1599	1755	877	3041	1890	418	-135	256	223	371
1943-44	-337	-4422	-1444	-13142	-9622	-8563	10738	24175	1590	324	-175	363	-14
1944-45	-3321	-1702	-7729	-4844	-351	1647	7014	9464	-237	-189	-81	-4282	-391
1945-46	-324	-98	256	-432	493	2254	2302	-40	-405	202	-108	-3934	16
1946-47	-1228	1339	1147	-283	-15	-1161	2985	1161	28	67	-2578	-446	76
1947-48	3213	56	-864	-2578	-7312	-1446	10293	1768	28	-175	216	-321	256
1948-49	-1080	-921	-3132	-5990	-4399	6878	1009	6753	795	-4063	796	-516	-293
1949-50	-1863	209	-1373	-11748	-6064	10869	-1201	-6182	20526	432	162	-2943	75
1950-51	-148	-823	594	-2713	1465	-5847	3342	5920	1074	-13	-2551	-28	1
1951-52	-216	-3819	-7633	-21119	-11684	-22890	35363	21024	14444	-324	-2794	-42	-35
1952-53	-1282	-865	-10363	-2508	-10399	-24095	-17128	55335	13404	-300	-13	-4004	-79
1953-54	-77	13	-3844	-18130	-8328	-3723	15459	3722	4880	13844	65	-2720	119
1954-55	-946	563	-4690	-14452	-22301	-30455	-2072	54409	20873	104	-1071	-1841	-24
1955-56	1183	-967	2515	-3810	-14261	-1857	-15222	20335	13986	-39	0	-2840	9
1956-57	-467	-3985	-5178	-27162	-17975	4900	5199	38287	7609	-170	-4826	1840	-45
1957-58	363	-1150	-5379	-14952	-14061	-14766	2660	43526	5892	-65	118	-324	254
1958-59	-2695	2663	-849	849	-11963	-30277	-4402	16136	30491	-118	248	-162	13
1959-60	91	-1429	-8719	-19987	-12673	1385	1171	14763	25391	52	-627	-2205	-229
1960-61	-1178	-27	-10779	-15994	-9395	-4165	2269	23968	17772	-3668	3642	-405	197
1961-62	39	-2019	-8258	-17625	-13608	-1040	0	13284	21437	6055	1709	-13	55
1962-63	-144	-985	-8266	-21379	-7301	-2173	-124	20738	18847	366	248	-67	-9
1963-64	-744	94	-11373	-8034	-22923	-5963	9366	6236	31050	-3253	3253	67	-4
1964-65	-562	459	-2047	-10771	-24989	-5859	9645	4085	27098	-572	2216	-1201	-105
1965-66	535	-970	-15377	-16367	-25846	-13934	32053	17205	21666	-2839	4392	-634	60
1966-67	-848	-847	-12754	-13429	-5163	-20124	-17752	38776	30473	937	1319	-1457	-60
1967-68	431	-4657	-19700	-19556	-3412	-27668	-14593	40369	45690	3691	1410	-27	114
1968-69	-209	-1416	-18178	-25708	-41226	-27448	-5363	64979	51041	-717	469	-847	-173
1969-70	1172	-1977	-5152	-4763	-17723	-22003	-26353	26051	44028	7611	-940	-2405	-99
1970-71	-104	228	-2155	2661	-7255	-50860	-13388	31882	41546	-418	65	-4201	-176
1971-72	1133	1619	-4735	-5873	-29106	-24409	-17366	24545	51587	7306	-3010	-7325	-396
1972-73	7595	-992	298	-1718	-21640	-35609	-26720	30049	22837	14367	762	5721	-254
1973-74	4529	2319	-28551	-38301	-34474	-11434	-1168	47819	65396	5340	-65	-1012	987
1974-75	-264	95	-1445	-2377	-9749	-42489	-22644	4709	66949	8949	653	-4268	-189
1975-76	-1995	360	5885	-1769	-30344	-34886	-10935	51595	21911	3132	-94	-2404	180
1976-77	635	-3953	1627	-13335	-22253	-20340	120	14405	28934	11383	1724	-2618	-190
1977-78	169	-350	-4098	-25168	-19946	-2845	-16125	21277	41230	8212	-1786	313	170
1978-79	-6653	-10433	1543	2004	-23954	-16411	-16060	40948	18813	731	3126	-2038	-489
1979-80	-2775	-19838	17507	-21772	-14812	-13627	18349	42126	1178	-1471	132	-3203	243
1980-81	1353	-1559	5287	-7229	1536	-9517	-17246	26814	4501	906	-906	-1477	240
1981-82	-1613	-1142	-505	2094	-16367	-48053	-11448	31352	39735	6789	-836	1139	154
1982-83	-93	-10445	376	10640	-12777	-42442	-22567	29624	41301	5373	-4753	-1319	-515
1983-84	3216	1782	-7615	7403	-9712	-698	-37495	2688	42602	-6657	4931	735	132
1984-85	-776	-2383	3523	-10811	-27619	-28463	207	11470	37375	9784	1743	2072	-204
1985-86	-13	-11323	-12069	27967	-684	-7296	-30787	6887	20592	7932	349	913	272
1986-87	-13	783	-3534	1648	-3053	-292	-3952	-1308	-2038	11492	-2254	2788	54
1987-88	-3032	-331	-14067	-5780	-5596	-22402	28139	4253	12815	-463	4265	-1583	-396
1988-89	-64	-11556	-25330	-9974	-12108	-8229	18818	3864	33846	5209	8834	1021	352
MEAN	-91	-1921	-4876	-7961	-12140	-13009	-2362	20190	21940	2834	436	-1000	250

GCL3S

USGS # 12436100

COULEE PUMP

River: COLUMBIA

Drainage Area: 74700 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 596.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	540	1240	2330	2980	2020	765
1951-52	1900	20	0	0	0	0	0	1270	2426	3457	2873	0	1005
1952-53	0	0	0	0	0	0	0	3045	5667	3775	0	0	1045
1953-54	0	0	0	0	0	0	0	2562	8249	6500	3014	2163	1881
1954-55	53	2298	188	0	0	0	0	1884	8976	5883	3938	1155	2036
1955-56	788	3809	856	0	0	0	1455	3733	4344	4161	3254	267	1893
1956-57	0	0	0	0	0	0	1709	3194	6666	4395	2087	0	1510
1957-58	0	0	0	0	3504	2278	0	4051	7841	5661	3792	2289	2442
1958-59	0	1733	0	0	0	0	0	2283	6262	5131	5368	1440	1861
1959-60	8	0	0	0	0	0	1316	5747	5824	6654	5110	1702	2209
1960-61	0	0	0	0	1537	581	560	2366	8814	8528	5398	1381	2435
1961-62	0	76	0	0	0	0	1915	5611	8234	6501	4232	0	2229
1962-63	0	99	0	0	0	0	0	1758	9473	9192	9694	2033	2707
1963-64	635	0	0	0	0	0	244	8731	9521	8333	5910	1982	2963
1964-65	0	0	0	0	0	0	73	7928	8833	8768	8158	1352	2954
1965-66	0	0	0	0	0	3	2469	9070	6267	7436	5275	6141	3073
1966-67	2020	0	0	0	0	0	342	5526	9226	9234	5799	1422	2821
1967-68	6736	0	0	0	0	0	0	4447	9214	9621	7379	2177	3321
1968-69	3213	65	0	0	0	0	0	1385	9382	9135	7424	4195	2918
1969-70	1074	0	0	0	0	2151	2090	6402	6475	6741	5488	5960	3050
1970-71	0	2153	0	0	0	0	0	5124	8601	7642	7512	2703	2828
1971-72	0	2875	0	0	0	0	0	3558	9219	9576	7520	4452	3106
1972-73	57	0	0	0	0	0	0	2582	8063	9150	9431	9418	3239
1973-74	3943	51	280	0	0	0	0	0	7403	11760	8776	1810	2864
1974-75	3264	3041	33	58	180	310	0	4857	8535	9547	6177	3150	3283
1975-76	0	0	2934	0	628	1365	1652	8385	7784	7638	5388	4412	3362
1976-77	2226	101	0	0	259	240	5473	8435	8244	7174	7724	1408	3463
1977-78	1164	2882	0	4	0	0	0	6904	8500	9191	4136	0	2753
1978-79	7923	72	0	0	0	0	0	8814	11533	8114	7455	4127	4037
1979-80	3697	0	0	0	0	0	0	8890	5477	7855	1691	0	2324
1980-81	0	0	0	0	7721	3928	4101	6198	6304	7586	6688	4160	3862
1981-82	773	0	0	0	0	467	2639	7102	8504	5382	6334	4050	2952
1982-83	2652	18	0	19	41	39	2580	6255	8904	6275	4844	3042	2904
1983-84	2116	0	6	46	72	69	758	9571	6518	8065	6286	5059	3233
1984-85	1526	0	0	0	0	0	3515	8167	8493	8960	7427	1723	3344
1985-86	0	0	0	0	0	23	9340	5272	8663	7213	5856	4839	3437
1986-87	1336	0	2	0	0	508	6591	7683	7882	6673	6484	2488	3321
1987-88	2488	0	0	0	0	1112	7026	6768	7369	7936	7248	5173	3768
1988-89	2333	73	0	0	2	0	3927	7747	8493	8959	6949	4764	3626

USGS # 12438100

COULEE GENERATION

River: COLUMBIA

Drainage Area: 74700 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 596.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28													0
1928-29													0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73	0	0	0	0	0	0	0	0	0	0	0	0	0
1973-74	0	-34	0	0	0	0	0	0	0	0	0	0	-3
1974-75	0	0	-73	-150	-140	-21	0	0	0	0	0	0	-32
1975-76	0	0	0	0	-553	-425	0	-1	-2	0	0	0	-80
1976-77	0	-15	0	0	0	0	0	0	0	0	0	0	-1
1977-78	0	0	0	0	0	0	0	0	0	-42	0	0	-4
1978-79	0	0	0	0	0	0	0	0	0	0	-17	0	-1
1979-80	0	0	0	0	0	0	0	-2	0	0	0	0	0
1980-81	0	0	0	0	0	0	0	0	0	0	0	0	0
1981-82	0	0	0	0	0	0	0	0	0	0	0	0	0
1982-83	0	0	0	-146	-9	0	0	-9	-83	0	0	-29	-23
1983-84	-37	-11	0	-119	-59	-122	-500	0	-31	0	0	0	-73
1984-85	-75	0	0	0	0	0	0	0	0	0	0	0	-6
1985-86	-273	0	0	0	0	0	-360	-64	-251	-32	-3	-375	-113
1986-87	-9	0	0	0	0	0	0	0	0	0	0	0	-1
1987-88	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 12436100

GRAND COULEE

River: COLUMBIA

Drainage Area: 74700 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 596.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-33405	-34206	-16498	
1928-29	-4593	-5678	-5077	-4604	-1472	6148	12657	62665	913	-33185	-16719	-15666	-358
1929-30	-7964	-7062	1221	-4293	6003	473	52208	12073	9369	-25555	-19029	-13171	200
1930-31	-8888	-3997	-4841	417	617	5132	14459	47896	-411	-23889	-17039	-12015	-217
1931-32	-5211	-1180	-1684	-5812	5241	11238	32983	52349	11404	-55159	-19906	-20777	205
1932-33	-4327	3088	-3738	-5077	-4475	3060	35229	54013	45512	-64738	-32832	-18361	482
1933-34	6718	-4048	15675	-15001	-11500	11476	80753	17284	-49473	-23792	-20716	-16608	-719
1934-35	-652	6398	-8412	277	-2019	374	22762	65643	748	-29354	-36498	-15830	270
1935-36	-7653	-4425	-2447	-1516	-3550	2607	65292	46369	-37991	-29706	-15853	-12913	-159
1936-37	-7913	-5595	-609	-3404	216	1141	18061	60145	7301	-33929	-21986	-8751	365
1937-38	2945	-4574	-6382	-3602	-4814	5981	44411	62378	-5088	-48983	-21522	-6382	1182
1938-39	-10649	-5805	-3204	-3325	-7589	6475	41024	46492	-19268	-16628	-13952	-12053	181
1939-40	-74	-9823	-1760	-7838	-2544	10245	19672	84458	-19097	-25227	-10935	-6800	2622
1940-41	2862	-12842	-3853	-6847	-8015	1525	28192	35667	42925	33848	-7849	-5234	8446
1941-42	1280	-10264	-11371	-18719	-13517	-10720	36114	76118	20428	-10663	-13326	-12069	2845
1942-43	-8375	-4739	-8072	-12781	-8425	1409	63802	21327	13853	-20541	-22289	-10992	254
1943-44	-6578	-14473	-10561	-22155	-17957	-13100	26117	75068	6270	-11244	-10004	-2667	-52
1944-45	-9680	-8583	-17118	-9429	-7468	-4027	10342	83859	4371	-27529	-13660	-9967	-683
1945-46	-4337	-518	-4053	-8122	-8775	-2061	40507	67944	-19770	-30586	-18765	-10986	87
1946-47	-4747	675	-1150	-11080	-8021	-4151	39092	53824	-14212	-23827	-18509	-2952	424
1947-48	6039	-10149	-7795	-13072	-15878	-10478	44934	117463	-44881	-45129	-7377	-11743	310
1948-49	-7155	-7033	-14986	-20741	-7777	5417	44554	65618	-35556	-15403	-4548	-6794	-297
1949-50	-8015	2208	-8512	-22835	-14505	3592	15736	54840	73768	-58251	-17414	-13771	487
1950-51	-195	-4688	836	-20388	-5852	-20727	31501	78969	-6116	-18470	-21325	-4148	801
1951-52	2505	-10521	-16157	-32792	-22834	-31606	96391	66303	22665	-12540	-4684	-9092	3888
1952-53	-17921	-27110	-22626	-673	-15427	-33335	4129	121017	59601	-6782	-3903	-21239	3119
1953-54	-18123	-15847	-14995	-27382	-12299	-17104	30799	108616	24322	9476	-15127	-10100	3608
1954-55	-10456	-3916	-19407	-29668	-37959	-48676	-2489	114035	110697	-25417	-21564	-13805	1030
1955-56	-944	-5364	-260	-16339	-31922	-12313	20577	111654	-2691	-13987	-11719	-11886	2274
1956-57	-12172	-23425	-15879	-45298	-28060	-2068	23896	145327	-4123	-7412	-12862	-7979	1107
1957-58	-15885	-21922	-18940	-22003	-9471	-26506	20462	157918	-5358	-13829	-1343	-5414	3314
1958-59	-7407	-2120	-8142	-10964	-33399	-40784	15818	66640	89644	-18175	-15275	103	3043
1959-60	-7261	-14576	-17409	-30691	-23415	-1818	7605	49956	84252	-11954	-13588	-2688	1484
1960-61	-9338	-13134	-19956	-22555	-9064	-20472	3150	126804	25833	-28351	1675	-10578	2100
1961-62	-5451	-21881	-18349	-33053	-27269	-14973	45763	66157	63204	-8186	-6938	-6068	2801
1962-63	-5802	-7166	-18915	-38492	-13604	-14574	8089	87983	43814	-6054	-3182	2765	2942
1963-64	-13228	-12318	-20573	-20002	-39103	-24576	18925	82263	89493	-17782	-6801	2923	3265
1964-65	-12472	-12827	-5450	-25509	-44871	-32680	48748	51973	74126	-6574	1708	-10215	2300
1965-66	-6952	-12831	-30612	-29000	-43015	-22634	52305	93240	52478	-9036	-620	-7928	3130
1966-67	-20549	-19336	-20272	-22535	-24381	-33061	-12860	130611	116698	-19448	-7125	-12162	4723
1967-68	-17275	-17079	-46657	-32394	-5326	-23823	-24872	120433	105647	18150	3485	5169	7079
1968-69	-3758	-9927	-36972	-50663	-71014	-49924	26183	153014	136468	1562	-13066	-10505	6258
1969-70	-22264	-41076	-55749	-47134	-29935	-35594	-22040	112852	173178	31162	-12680	-23982	2281
1970-71	-33216	-35023	-40689	-24719	-15372	-74047	6361	137861	124153	29997	1442	-11047	5475
1971-72	-22212	-37176	-61713	-54277	-51189	-21300	-30585	148062	181664	53716	-936	-26335	6623
1972-73	-25836	-40383	-59431	-49551	-60951	-49188	-29349	135041	156777	42807	-18436	-23710	-1559
1973-74	-29222	-2286	-23430	-30685	-70477	-39008	33285	112766	314112	96746	3604	-32258	28017
1974-75	-50621	-55070	-60582	-67938	-77707	-87033	-43389	104779	253830	139765	11255	643	5981
1975-76	-18466	-26372	-14868	-60385	-88506	-85697	5640	196064	145691	101304	6077	-9685	12943
1976-77	-52194	-55637	-63008	-78865	-64916	-62153	9384	72281	122569	34643	13557	-22034	-12047
1977-78	-28734	-41559	-20821	-61075	-61584	-23323	9224	116865	217155	101396	10089	-2757	18257
1978-79	-39983	-56018	-67623	-90934	-69237	-37898	-17884	146337	150605	57514	-5969	-17330	-3706
1979-80	-41896	-74213	-54043	-75663	-58639	-33144	78599	227418	107211	32078	-11905	-7276	7534
1980-81	-18986	-32980	-33250	-81582	-60493	-38271	14481	174989	84404	64545	-4971	-13548	4969
1981-82	-33293	-33191	-54129	-76975	-39631	-104403	-53484	112140	253837	73722	770	3777	4031
1982-83	-18010	-51770	-43310	-56163	-81997	-88499	-24092	125517	177858	93453	-4109	-13030	1776
1983-84	-27194	-11601	-75928	-49180	-84709	-36741	-12347	51926	227377	99447	8683	-3831	7193
1984-85	-33937	-31441	-66677	-115238	-110573	-71333	30548	169961	166359	56640	8481	-2315	502
1985-86	-23943	-47679	-86586	-45281	-40752	-10663	-7877	112041	199390	46429	-2611	-21048	6064
1986-87	-31748	-41284	-62951	-93332	-62023	-273	41177	143335	100821	44616	-10993	-30412	57
1987-88	-65257	-53357	-73814	-88480	-72373	-45817	68089	124348	149061	58061	-311	-37636	-3124
1988-89	-31245	-47618	-88148	-86023	-78382	-20986	60796	116282	188590	76400	35861	-8581	10047
MEAN	-15048	-19347	-25676	-33499	-31376	-23037	21630	95690	74860	7851	-8714	-11262	2876

GCL3SS

USGS # 12436100

GRAND COULEE

River: COLUMBIA

Drainage Area: 74700 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 596.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										226800	109800	62100	
1928-29	47410	35620	27020	20600	19830	31750	<u>51460</u>	178700	270900	134800	94280	53830	80770
1929-30	33160	<u>22180</u>	24890	<u>14490</u>	29040	28940	123200	172000	231700	169500	105400	63820	85060
1930-31	36170	28610	<u>21920</u>	23010	24880	37190	69950	206000	220200	142100	87210	65870	80550
1931-32	37790	32880	26540	24120	31150	67510	147800	306700	345100	181500	110200	58020	114200
1932-33	43180	51280	47510	37540	26290	40590	103900	248000	437600	272500	133900	74770	126800
1933-34	70000	<u>82580</u>	<u>114100</u>	98900	68170	83910	<u>249300</u>	332400	262300	152300	96450	57190	139300
1934-35	44520	63290	42600	43050	48170	48170	90100	243700	322800	230000	108500	64780	112800
1935-36	39630	28940	24950	25070	<u>17920</u>	34240	142800	305100	263300	141100	90890	53030	97410
1936-37	34060	22890	22590	14820	18420	<u>24980</u>	62120	195700	251100	160500	87540	59060	79770
1937-38	45520	52700	40590	43700	32290	57050	144200	281200	339800	186500	79530	66540	114400
1938-39	44040	31860	27890	29490	22890	41630	127200	280700	215800	171900	96220	55350	95880
1939-40	48050	40820	42750	27060	35880	60750	120300	236700	221900	141800	83790	69380	94210
1940-41	57590	35850	32790	30250	28620	49390	103800	181000	<u>184600</u>	126700	81440	78160	82750
1941-42	77210	58780	82040	40060	36220	36470	109700	219800	277200	210300	106500	54440	109500
1942-43	40220	36950	34080	26040	30580	38770	203400	216700	300100	250700	106100	51250	111500
1943-44	43220	30480	26870	23730	22720	25110	58140	161500	199000	107700	81820	60400	<u>70130</u>
1944-45	46230	37110	24680	29590	30990	36580	54940	240800	283300	156800	78880	51460	89560
1945-46	37020	40010	35610	35670	30820	50350	144000	353100	337800	196800	97860	64090	119000
1946-47	42120	41180	54820	37600	46840	61320	136000	326300	300700	184900	91480	64060	116000
1947-48	92470	64730	45140	43360	37780	39500	117900	385900	483700	176100	123700	67670	139900
1948-49	49460	38770	27810	22980	34770	51150	144700	333900	219200	119800	84050	52080	98570
1949-50	37690	45590	42780	31560	41710	68770	107700	239700	441300	297400	116500	64930	128300
1950-51	61750	63560	70650	56250	<u>81000</u>	53630	142700	360700	300300	253900	108300	64990	135200
1951-52	76740	50190	44790	37190	40610	42520	170200	327500	279500	179300	94860	49610	116300
1952-53	34350	23940	25290	43680	48740	40550	79260	243200	367900	219900	107900	59930	108100
1953-54	50370	46070	39640	34260	43880	48930	89230	341100	382400	<u>339100</u>	149200	96930	139000
1954-55	55180	61190	44890	33640	33750	30520	69030	189400	401400	274800	112200	58670	114000
1955-56	61270	60830	62060	49140	33890	54430	197000	389500	396700	205600	101300	60140	139500
1956-57	52030	37980	38550	27980	36700	47160	93360	<u>419800</u>	285300	136300	79830	52180	109400
1957-58	43360	35590	33840	34920	53260	52020	105600	354000	293400	139700	86170	58430	107800
1958-59	54720	52490	50660	60010	41800	49050	125800	278100	426300	250900	108800	110500	134300
1959-60	<u>97390</u>	80960	60020	39990	43680	64170	154700	221800	330100	219500	99730	66670	123300
1960-61	53070	49430	34070	36630	75450	64270	105100	338500	446200	152700	97880	53090	125500
1961-62	54680	36580	33560	30230	43330	41000	151800	241100	311000	172400	108700	58350	107000
1962-63	55340	57210	54260	38680	64930	54550	103300	222600	287800	182900	99660	70540	107800
1963-64	42660	40610	30850	30750	28400	32930	77310	234900	430500	244300	111300	72580	114800
1964-65	67530	53810	59610	48560	53380	51870	152800	269700	350900	195600	124800	63150	124500
1965-66	55420	49990	36930	35770	31850	49650	118700	258000	302600	199900	101600	61460	108900
1966-67	43890	40680	48460	46810	46240	48200	72460	252000	489000	237200	106100	67420	125100
1967-68	51010	47390	34630	36800	59430	74800	68600	227200	338700	219400	110000	89650	113200
1968-69	66950	63050	49140	48200	39660	54770	207000	355600	343900	179900	86240	62770	130100
1969-70	55460	45110	35340	37700	43150	45930	66820	231000	328000	146200	84360	48060	97440
1970-71	42250	35880	34180	44840	77100	57310	123600	375200	382300	217700	125800	61860	131700
1971-72	47600	41490	35860	37890	51120	<u>121800</u>	114400	344900	492000	255300	139400	64820	145700
1972-73	48620	39360	40670	39730	32880	46840	67540	200800	232300	143800	82890	49780	85730
1973-74	43070	61510	66570	<u>112200</u>	68700	70230	172600	286400	<u>521100</u>	280300	130100	73590	<u>157400</u>
1974-75	38760	39080	35250	34140	38940	51260	77780	251900	379300	240900	107000	67800	113800
1975-76	57710	68860	82130	54200	50630	50750	134800	355400	289800	267800	<u>189700</u>	<u>112000</u>	143200
1976-77	52850	39080	33450	30190	28630	32080	73910	<u>159500</u>	193200	<u>105900</u>	91600	56780	74960
1977-78	35500	36600	53990	38530	39350	66420	139800	249100	312700	214000	100500	103700	116100
1978-79	56510	46590	30050	28000	39100	53690	81200	256900	240900	146600	83490	56770	93620
1979-80	36470	25390	36930	29690	35150	44830	145300	333700	254600	137200	78070	60280	101600
1980-81	49150	48120	74830	64640	65780	57950	102600	298600	296300	236700	130800	65940	124700
1981-82	46980	47610	38310	36710	79730	80850	97680	270900	413700	239100	120300	83840	129700
1982-83	56320	42210	42820	51330	57950	94210	116500	256500	286000	217600	112300	64450	116900
1983-84	44160	72310	38110	54930	45740	68120	116000	179700	339700	210600	110300	63960	111900
1984-85	41030	41160	29120	24040	27000	34660	114500	280800	251300	127500	71130	59660	92080
1985-86	58260	59980	34050	32390	52120	100200	124800	226700	304700	155100	91040	49520	107600
1986-87	42660	46030	33620	25070	29280	71120	123300	263200	202400	122400	<u>70020</u>	<u>45260</u>	89860
1987-88	<u>23630</u>	24330	26980	20760	22840	38130	132700	217600	236800	131200	76740	45670	83140
1988-89	46510	44840	31380	29970	22840	46580	138100	245200	275100	140300	96350	56640	98090
MEAN	49970	45570	41890	38020	41370	52490	117400	269700	318100	191600	102200	64190	111200
MEDIAN	47410	42210	36930	35770	38940	49650	116500	256500	300700	183900	100100	61980	112800

GCL3A

USGS # 12437990

CHIEF JOSEPH

River: COLUMBIA

Drainage Area: 75400 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 545.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										260000	144000	78600	
1928-29	52000	41300	32100	25200	21300	25600	38800	116000	270000	168000	111000	69500	81130
1929-30	<u>41130</u>	29240	23670	18790	23040	28470	71040	160000	222400	195100	124400	76990	84860
1930-31	45050	32610	26760	22590	24270	32050	55490	158100	220600	166000	104200	77890	80760
1931-32	43000	34060	28230	29940	25910	56270	114800	254300	333700	236600	130100	78800	114000
1932-33	47510	48180	51250	42620	30760	37530	68650	194000	392100	337200	166700	93130	126300
1933-34	63280	86630	98430	113900	79670	72430	168600	<u>315200</u>	311700	176100	117200	73800	<u>140000</u>
1934-35	45170	56900	51010	42770	50190	47800	67330	178100	322000	259400	145000	80810	112500
1935-36	47280	33370	27400	26590	21470	31640	77470	258800	301300	170800	106700	65950	97570
1936-37	41970	<u>28480</u>	<u>23200</u>	<u>18220</u>	<u>18200</u>	<u>23840</u>	44060	135500	243800	194500	109500	67810	79400
1937-38	42570	57270	46970	47310	37110	51070	99800	218800	344900	235500	101100	72920	113200
1938-39	54690	37670	31100	32810	30480	35150	86210	234200	235100	188500	110200	67410	95700
1939-40	48130	50650	44510	34890	38420	50510	100600	152300	241000	167000	94720	76180	91590
1940-41	54730	48490	36640	37090	36640	47870	75620	145300	141700	92890	89290	83390	74300
1941-42	75930	69040	93410	58780	49740	47190	73610	143700	256800	221000	119900	66510	106600
1942-43	48600	41690	42150	38830	39010	37360	139600	195400	286200	271300	128400	62240	111200
1943-44	49800	44960	37430	45890	40680	38210	<u>32020</u>	86450	192800	118900	91830	63060	<u>70190</u>
1944-45	55910	45700	41800	39020	38450	40600	44600	156900	278900	184300	92540	61430	90250
1945-46	41360	40530	39660	43790	39600	52420	103500	285200	357500	227400	116600	75080	118900
1946-47	46870	40510	55970	48680	54860	65470	96920	272500	314900	208700	110000	67010	115500
1947-48	86430	74880	52940	56430	53660	49980	72940	268400	<u>528600</u>	221300	131100	79410	139600
1948-49	56620	45800	42800	43730	42550	45740	100100	268300	254800	135200	88600	<u>58870</u>	98870
1949-50	45700	43390	51290	54390	56220	65170	91960	184900	367600	<u>355600</u>	134000	78700	127800
1950-51	61940	68250	69810	76640	86850	74350	111200	281700	306400	272400	129600	69140	134400
1951-52	74230	60710	60950	69980	63440	74130	78030	260300	257600	194800	102800	61690	113500
1952-53	54890	53370	50020	46710	66640	76040	77830	122000	309100	227400	114300	83850	106900
1953-54	70390	63320	56380	63480	57660	67800	60170	225600	356500	329800	165900	107900	135900
1954-55	68020	65480	62230	63160	71890	79550	72500	75090	285300	305300	131400	76110	113200
1955-56	62710	67420	63030	68020	67550	68320	173600	279200	393000	222200	112500	74210	137600
1956-57	64880	61440	55510	73050	65950	51160	69870	270400	290600	145000	90620	60670	108500
1957-58	59530	56610	52060	55320	62650	80530	86350	192000	295500	150300	88600	63280	103700
1958-59	61610	54560	58660	70660	75690	90190	109400	210900	334300	271000	123800	110500	131200
1959-60	<u>104500</u>	95140	77630	71040	66710	66260	147100	172600	246000	231300	113800	69830	121900
1960-61	62100	62200	53590	58700	84110	84720	101800	211400	420200	181400	94860	63280	123100
1961-62	59970	57930	50820	63450	71040	55660	103600	172800	249700	182200	117300	65110	104200
1962-63	60840	64660	73410	77690	78580	69750	94430	133800	246700	189200	101700	68230	105000
1963-64	57510	52370	53780	51700	68670	58970	57950	154700	350100	269400	119600	72300	114000
1964-65	82500	68020	63800	73130	96300	84710	103100	217300	281700	203400	123100	74410	122700
1965-66	62110	64820	69470	66810	75640	73070	68290	165500	256000	214600	103200	71240	107700
1966-67	65170	60970	68050	70560	73060	83290	85160	124700	382400	271500	121600	79670	124000
1967-68	68830	66920	81190	70310	63960	101800	96400	108800	239700	209800	113300	87750	109200
1968-69	72390	74470	86330	100900	114100	106000	<u>178500</u>	198300	203700	178900	101200	75020	124100
1969-70	74810	84670	89920	82390	71660	79450	86050	116200	154100	117000	99120	71970	94070
1970-71	71640	70400	72210	66420	86550	123400	116500	232900	253600	182900	125100	73080	123100
1971-72	68070	75050	94150	88340	98070	139500	140900	193500	313000	201500	140800	90840	137000
1972-73	75920	78400	96430	87630	91680	97470	96860	<u>65980</u>	77260	102600	101600	72350	87040
1973-74	71520	61610	88190	137200	139000	109300	136200	169500	202100	179300	125800	103300	126800
1974-75	91340	92950	91940	99020	113200	133900	118600	145400	125400	100600	91110	65020	105700
1975-76	72460	90580	92950	111300	140400	132100	122100	148300	139000	164700	<u>172800</u>	<u>115700</u>	125200
1976-77	98800	88110	90840	109500	91150	89770	61540	85680	<u>68450</u>	69220	76890	74900	83790
1977-78	64210	78430	74510	99500	100800	89730	130600	132600	95070	112600	90930	104900	97750
1978-79	95840	100600	96940	118000	108400	91360	97740	106200	87940	89100	90890	75790	96540
1979-80	79490	96450	87600	98860	94530	80570	66760	103400	137400	107000	92850	66240	92590
1980-81	67910	81890	108500	141800	121600	96710	89360	123900	213900	174800	134100	80590	119600
1981-82	82200	81760	93590	111100	117700	182600	147700	155900	159700	165100	117000	78500	124500
1982-83	73920	93630	83350	105600	140200	<u>185900</u>	142700	129500	107100	122600	115300	72660	114300
1983-84	69470	83100	112200	104700	132300	100900	128100	126100	108300	107300	97400	67980	103100
1984-85	74240	72410	96850	<u>142500</u>	<u>140400</u>	108600	85350	110300	84940	72690	63730	62130	92630
1985-86	82100	<u>107400</u>	121100	77110	92290	110100	133000	116200	105400	109400	93550	71150	101600
1986-87	74940	88310	98020	120300	92170	72950	83790	122400	103800	79150	82520	76510	91260
1987-88	89600	79600	102500	111600	96900	85340	65460	95650	88880	73280	77070	84200	87550
1988-89	79270	95610	<u>121800</u>	119900	104400	70040	80000	133800	88890	<u>65040</u>	<u>62530</u>	65760	90560
MEAN	65010	64770	67200	71250	72720	75550	95550	173300	243200	184500	111100	75530	108300
MEDIAN	64210	64660	63030	68020	71040	72950	91960	158100	253600	182500	110600	73440	108500

CHJ3H

USGS # 12437990

CHIEF JOSEPH

River: COLUMBIA

Drainage Area: 75400 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 545.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	672	3399	330	348	-115	18	273	3645	-1195	164	-479	586
1955-56	558	-195	846	-763	176	-410	-131	-34	0	-23	161	-119	6
1956-57	70	47	-34	-93	-151	356	-96	1189	-262	-1085	1460	-139	110
1957-58	-133	87	49	13	-68	-289	-865	280	-289	851	-1069	807	-52
1958-59	553	-200	-311	263	-279	-237	183	408	161	-325	181	-37	33
1959-60	11	39	278	-592	424	-312	175	-158	138	327	-134	-595	-35
1960-61	-539	-60	208	105	366	299	199	-120	-37	-36	-12	199	45
1961-62	-48	-99	230	-494	-342	-246	303	767	-25	429	-550	-237	-24
1962-63	241	-776	308	227	266	-834	-335	1304	0	-495	471	-250	12
1963-64	-395	683	-110	-217	-26	-1045	673	538	-12	-168	314	25	18
1964-65	-37	-1140	1067	-181	-1032	896	362	-339	274	-410	373	176	10
1965-66	12	-50	37	-400	-410	770	-214	110	25	-339	351	-300	-30
1966-67	-60	50	60	145	54	-446	600	-73	-13	73	-1752	1100	-27
1967-68	699	-1389	1271	-375	427	61	-993	985	-113	73	24	-151	49
1968-69	85	-388	254	-434	266	364	-1812	101	1257	181	122	-25	-2
1969-70	122	-351	96	170	-41	-553	384	377	-38	-73	-387	-223	-43
1970-71	640	-164	-217	144	0	195	-413	460	-25	37	-146	-350	16
1971-72	253	164	-195	-253	557	-12	-25	49	-76	49	0	-944	-37
1972-73	71	283	313	-491	733	-1248	890	350	-362	326	-518	661	76
1973-74	-520	399	0	146	41	-364	364	-37	-685	651	-604	74	-46
1974-75	-1163	152	921	-784	-401	1087	710	-61	50	-266	-121	300	36
1975-76	24	-13	49	61	13	-110	-300	-252	322	352	0	-1005	-70
1976-77	273	160	435	-290	187	-36	214	-327	263	24	-578	610	74
1977-78	24	-537	205	132	108	24	-300	-358	545	158	-555	560	-1
1978-79	-230	25	0	-396	425	-336	472	-36	-323	-333	658	88	-3
1979-80	-990	848	84	-132	103	-132	149	0	-360	373	-156	162	-7
1980-81	-36	50	220	-183	1332	178	39	-63	-39	-1049	948	131	118
1981-82	-25	-157	178	0	-239	-251	351	165	26	-468	354	13	-3
1982-83	38	-79	38	-25	-70	127	-288	76	262	-518	403	13	-1
1983-84	63	-197	140	-89	-54	127	-131	101	144	-203	127	13	4
1984-85	0	13	-127	-428	333	-51	-168	429	-210	140	-63	79	-6
1985-86	25	-236	140	63	112	-152	-79	-38	144	76	-13	-314	-23
1986-87	177	66	-89	63	0	101	-392	277	79	-127	-13	105	21
1987-88	-25	-66	0	51	-27	25	13	-365	312	51	-101	118	-2
1988-89	-478	129	277	-101	267	-25	13	25	-170	38	127	-131	-4
MEAN	-22	-64	286	-137	97	-74	-12	172	132	-83	-15	-2	23

CHJ3S

USGS # 12437990

CHIEF JOSEPH

River: COLUMBIA

Drainage Area: 75400 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 545.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-33405	-34206	-16498	
1928-29	-4593	-5678	-5077	-4604	-1472	6148	12657	62665	913	-33185	-16719	-15666	-358
1929-30	-7964	-7062	1221	-4293	6003	473	52208	12073	9369	-25555	-19029	-13171	200
1930-31	-8888	-3997	-4841	417	617	5132	14459	47896	-411	-23889	-17039	-12015	-217
1931-32	-5211	-1180	-1684	-5812	5241	11238	32983	52349	11404	-55159	-19906	-20777	205
1932-33	-4327	3088	-3738	-5077	-4475	3060	35229	54013	45512	-64738	-32832	-18361	482
1933-34	6718	-4048	15675	-15001	-11500	11476	80753	17284	-49473	-23792	-20716	-16608	-719
1934-35	-652	6398	-8412	277	-2019	374	22762	65643	748	-29354	-36498	-15830	270
1935-36	-7653	-4425	-2447	-1516	-3550	2607	65292	46369	-37991	-29706	-15853	-12913	-159
1936-37	-7913	-5595	-609	-3404	216	1141	18061	60145	7301	-33929	-21986	-8751	365
1937-38	2945	-4574	-6382	-3602	-4814	5981	44411	62378	-5088	-48983	-21522	-6382	1182
1938-39	-10649	-5805	-3204	-3325	-7589	6475	41024	46492	-19268	-16628	-13952	-12053	181
1939-40	-74	-9823	-1760	-7838	-2544	10245	19672	84458	-19097	-25227	-10935	-6800	2622
1940-41	2862	-12842	-3853	-6847	-8015	1525	28192	35667	42925	33848	-7849	-5234	8446
1941-42	1280	-10264	-11371	-18719	-13517	-10720	38114	76118	20428	-10663	-13326	-12069	2845
1942-43	-8375	-4739	-8072	-12781	-8425	1409	63802	21327	13853	-20541	-22289	-10992	254
1943-44	-6578	-14473	-10561	-22155	-17957	-13100	26117	75068	6270	-11244	-10004	-2667	-52
1944-45	-9680	-8583	-17118	-9429	-7468	-4027	10342	83859	4371	-27529	-13660	-9967	-683
1945-46	-4337	-518	-4053	-8122	-8775	-2061	40507	67944	-19770	-30586	-18765	-10986	87
1946-47	-4747	675	-1150	-11080	-8021	-4151	39092	53824	-14212	-23827	-18509	-2952	424
1947-48	6039	-10149	-7795	-13072	-15878	-10478	44934	117463	-44881	-45129	-7377	-11743	310
1948-49	-7155	-7033	-14986	-20741	-7777	5417	44554	65618	-35556	-15403	-4548	-6794	-297
1949-50	-8015	2208	-8512	-22835	-14505	3592	15736	58480	73768	-58251	-17414	-13771	487
1950-51	-195	-4688	836	-20388	-5852	-20727	31501	78969	-6116	-18470	-21325	-4148	801
1951-52	2505	-10521	-16157	-32792	-22834	-31606	96391	66303	22665	-12540	-4684	-9092	3888
1952-53	-17921	-27110	-22626	-673	-15427	-33335	4129	121017	59601	-6782	-3903	-21239	3119
1953-54	-18123	-15847	-14995	-27382	-12299	-17104	30799	108616	24322	9476	-15127	-10100	3608
1954-55	-10456	-3244	-16008	-29338	-37612	-48792	-2471	114309	114342	-26613	-21399	-14284	1616
1955-56	-386	-5559	586	-17102	-31746	-12723	20446	111619	-2691	-14009	-11558	-12006	2280
1956-57	-12102	-23378	-15913	-45391	-28212	-1712	23800	146516	-4385	-8496	-11402	-8118	1217
1957-58	-16018	-21834	-18891	-21990	-9539	-26795	19597	158198	-5647	-12978	-2411	-4607	3262
1958-59	-6854	-2320	-8453	-10701	-33678	-41022	16002	67048	89805	-18500	-15094	66	3076
1959-60	-7250	-14537	-17131	-31283	-22991	-2131	7780	49798	84389	-11627	-13722	-3283	1448
1960-61	-9877	-13194	-19748	-22450	-8698	-20173	3349	126684	25795	-28387	1663	-10379	2144
1961-62	-5499	-21980	-18120	-33547	-27610	-15218	46066	66924	63179	-7757	-7487	-6305	2778
1962-63	-5561	-7942	-18607	-38265	-13338	-15408	7754	89287	43814	-6549	-2712	2515	2955
1963-64	-13623	-11635	-20683	-20219	-39129	-25620	19598	82801	89480	-17950	-6487	2948	3284
1964-65	-12509	-13967	-4383	-25689	-45904	-31784	49110	51634	74400	-6984	2081	-10038	2310
1965-66	-6940	-12882	-30575	-29400	-43425	-21864	52091	93349	52503	-9375	-269	-8228	3100
1966-67	-20610	-19287	-20212	-22390	-24327	-33507	-12260	130538	116685	-19375	-8877	-11062	4695
1967-68	-16575	-18468	-45386	-32769	-4899	-23762	-25865	121419	105533	18224	3510	5018	7128
1968-69	-3673	-10315	-36719	-51097	-70748	-49560	24371	153115	137726	1743	-12944	-10530	6256
1969-70	-22142	-41427	-55652	-46964	-29975	-36147	-21656	113229	173140	31089	-13067	-24205	2238
1970-71	-32577	-35187	-40907	-24574	-15372	-73852	5948	138321	124128	30034	1296	-11396	5491
1971-72	-21959	-37012	-61908	-54529	-50632	-21312	-30610	148111	181588	53765	-936	-27279	6586
1972-73	-25765	-40101	-59118	-50042	-60219	-50435	-28460	135392	156415	43133	-18954	-23049	-1483
1973-74	-29742	-1887	-23430	-30539	-70436	-39373	33649	112729	313426	97397	3000	-32184	27970
1974-75	-51783	-54918	-59661	-68722	-78107	-85947	-42680	104718	253881	139499	11133	943	6017
1975-76	-18442	-26384	-14819	-60304	-88493	-85807	5340	195812	146014	101656	6077	-10689	12873
1976-77	-51921	-55477	-62573	-79156	-64729	-62189	9597	71954	122832	34667	12979	-21424	-11973
1977-78	-28710	-42096	-20616	-60943	-61476	-23298	8924	116506	217700	101554	9534	-2197	18256
1978-79	-40213	-55993	-67623	-91329	-68812	-38234	-17412	146300	150282	57181	-5311	-17242	-3709
1979-80	-42886	-73365	-53958	-75796	-58536	-33276	78748	227418	106851	32451	-12062	-7114	7526
1980-81	-19022	-32930	-33030	-81765	-59160	-38093	14520	174925	84365	63496	-4023	-13416	5087
1981-82	-33318	-33348	-53952	-76975	-39870	-104655	-53133	112305	253863	73254	1124	3790	4028
1982-83	-17972	-51849	-43272	-56189	-82067	-88372	-24380	125593	178120	92935	-3706	-13017	1775
1983-84	-27131	-11797	-75789	-49269	-84763	-36614	-12478	52028	227521	99244	8810	-3818	7198
1984-85	-33937	-31428	-66803	-115666	-110240	-71383	30380	170390	166149	56780	8417	-2237	496
1985-86	-23918	-47915	-86446	-45218	-40639	-10815	-7956	112003	199534	46505	-2624	-21362	6042
1986-87	-31571	-41218	-63040	-93268	-62023	-172	40785	143613	100899	44489	-11006	-30307	78
1987-88	-65282	-53422	-73814	-88429	-72400	-45791	68102	123983	149372	58112	-413	-37518	-3126
1988-89	-31723	-47489	-87871	-86125	-78116	-21011	60809	116307	188420	76438	35988	-8712	10043
MEAN	-15060	-19383	-25511	-33578	-31321	-23080	21630	95790	74930	7804	-8723	-11263	2889

CHJ3SS

USGS # 12437990

CHIEF JOSEPH

River: COLUMBIA

Drainage Area: 75400 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 545.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										226600	109800	62100	
1928-29	47410	35620	27020	20800	19830	31750	<u>51460</u>	178700	270900	134800	94280	53830	80770
1929-30	33160	<u>22180</u>	24890	<u>14490</u>	29040	28940	123200	172000	231700	169500	105400	63820	85060
1930-31	36170	28610	<u>21920</u>	23010	24880	37190	69950	206000	220200	142100	87210	65870	80550
1931-32	37790	32880	26540	24120	31150	67510	147800	306700	345100	181500	110200	58020	114200
1932-33	43180	51260	47510	37540	26290	40590	103900	248000	437600	272500	133900	74770	126800
1933-34	70000	<u>82580</u>	<u>114100</u>	98900	88170	83910	<u>249300</u>	332400	262300	152300	96450	57190	139300
1934-35	44520	63290	42600	43050	48170	48170	90100	243700	322800	230000	108500	64780	112800
1935-36	39630	28940	24950	25070	<u>17920</u>	34240	142800	305100	263300	141100	90890	53030	97410
1936-37	34060	22890	22590	14820	18420	<u>24980</u>	62120	195700	251100	160500	87540	59060	79770
1937-38	45520	52700	40590	43700	32290	57050	144200	281200	339800	186500	79530	66540	114400
1938-39	44040	31860	27890	29490	22890	41630	127200	280700	215800	171900	96220	55350	95880
1939-40	48050	40820	42750	27060	35880	60750	120300	236700	221900	141800	83790	69380	94210
1940-41	57590	35650	32790	30250	28620	49390	103800	181000	<u>184600</u>	126700	81440	78160	82750
1941-42	77210	58780	82040	40060	36220	36470	109700	219800	277200	210300	106500	54440	109500
1942-43	40220	36950	34080	26040	30580	38770	203400	216700	300100	250700	106100	51250	111500
1943-44	43220	30480	26870	23730	22720	25110	58140	161500	199000	107700	81820	60400	<u>70130</u>
1944-45	46230	37110	24680	29590	30990	36580	54940	240800	283300	156800	78880	51460	89560
1945-46	37020	40010	35610	35670	30820	50350	144000	353100	337800	196800	97860	64090	119000
1946-47	42120	41180	54820	37600	46840	61320	136000	326300	300700	184900	91480	64060	116000
1947-48	92470	64730	45140	43360	37780	39500	117900	385900	483700	176100	123700	67670	139900
1948-49	49460	38770	27810	22980	34770	51150	144700	333900	219200	119800	84050	52080	98570
1949-50	37690	45590	42780	31560	41710	68770	107700	239700	441300	297400	116500	64930	128300
1950-51	61750	63560	70650	58250	<u>81000</u>	53630	142700	360700	300300	253900	108300	64990	135200
1951-52	76740	50190	44790	37190	40610	42520	174400	326600	280200	182300	98090	52600	117400
1952-53	36970	26260	27400	46040	51220	42710	81960	243000	368700	220800	110400	62610	110000
1953-54	52260	47480	41390	36100	45360	50700	90970	334200	380800	<u>339200</u>	150800	97750	139500
1954-55	57560	62220	46220	33830	34280	30760	70030	189400	399700	278700	110000	61830	114800
1955-56	62320	61860	63610	50920	35810	55600	194100	390800	390400	208200	101000	62200	139900
1956-57	52780	38060	39600	27650	37740	49450	93670	<u>416900</u>	286200	136500	79210	52550	109700
1957-58	43510	34780	33170	33330	53110	53730	106000	350200	289800	137300	86190	58670	106900
1958-59	54760	52240	50210	59960	42010	49170	125400	278000	424100	252500	108700	<u>110600</u>	134200
1959-60	<u>97290</u>	80610	60500	39760	43720	64130	154900	222400	330400	219700	100000	66550	123400
1960-61	52230	49010	33840	36250	75410	64550	105100	338100	448000	153000	96520	52900	125200
1961-62	54480	35950	32700	29900	43430	40440	149700	239700	312800	174400	109800	58810	107000
1962-63	55280	56720	54800	39430	65240	54340	102200	223100	290500	182600	98950	70750	107900
1963-64	43880	40740	33100	31480	29540	33350	77540	237500	439600	251400	113100	75250	117200
1964-65	69990	54050	59410	47440	50390	52930	152200	268900	356100	196400	125200	64370	125000
1965-66	55170	51940	38890	37410	32220	51200	120400	258800	308500	205200	102900	63010	110800
1966-67	44560	41690	47840	48170	48730	49790	72900	255200	499100	252200	112800	68610	128700
1967-68	52250	48450	35800	37540	59060	78000	70540	230300	345200	228000	116800	92770	116300
1968-69	68720	64160	49610	49850	43310	56480	202800	351400	341400	180600	88220	64490	130400
1969-70	52660	43240	34270	35430	41680	43300	64390	229400	327300	148100	86050	47760	96310
1970-71	39070	35210	31300	41840	71170	49570	122400	371200	377800	213000	126400	61680	128600
1971-72	46110	38040	32250	33810	47430	<u>118200</u>	110200	341600	494600	255200	139800	63560	143600
1972-73	50150	38300	37310	37590	31460	47030	68400	201400	233700	145700	82670	49300	85550
1973-74	41780	59720	64760	<u>106700</u>	68600	69960	169800	282200	<u>515600</u>	276700	128800	71150	<u>154800</u>
1974-75	39560	38030	32280	30290	35130	47990	75880	250100	379300	240100	102200	65960	111700
1975-76	54020	64190	78140	51000	51890	46320	127500	344100	285000	266400	<u>178900</u>	105000	138100
1976-77	46880	32630	28270	30320	26420	27580	71140	<u>157600</u>	191300	<u>103900</u>	89870	53470	71820
1977-78	35500	36340	53890	38550	39300	66430	139500	249100	312800	214100	100500	102700	116000
1978-79	55620	44560	29320	26670	39630	53120	80330	252500	238200	146300	85580	58540	92830
1979-80	36600	23090	33640	23070	36000	47300	145500	330800	244200	139400	80790	59120	100100
1980-81	48890	48960	75490	60010	62460	58620	103900	298800	298300	238300	130100	67180	124700
1981-82	48880	48420	39640	34110	77830	77930	94600	268200	413600	238400	118100	82290	128600
1982-83	55950	41780	40080	49410	58110	97500	118300	255100	285200	215500	111500	59650	116000
1983-84	42340	71300	36450	55440	47540	64270	115600	178200	335800	206500	106200	64170	110300
1984-85	40300	40980	30050	26790	30120	37210	115700	280700	251100	129500	72140	59890	93130
1985-86	58180	59520	34620	31900	51650	99280	125000	282200	304900	155900	90920	49780	107600
1986-87	43370	47090	34980	26990	30150	72780	124600	266000	204700	123600	<u>71520</u>	<u>46200</u>	91340
1987-88	<u>24320</u>	26170	28670	23210	24500	39550	133600	219600	238300	131400	76660	46680	84420
1988-89	47550	48120	33960	33760	26240	49020	140800	250100	277300	141500	98520	57050	100600
MEAN	49950	45390	41690	37670	41400	52470	117200	269100	318200	192300	102400	64270	111200
MEDIAN	47410	41780	35800	35430	37780	49570	117900	255100	300700	183700	100300	62410	111700

CHJ3A

USGS # 12450652

WELLS

River: COLUMBIA

Drainage Area:

86100 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

515.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										269200	148300	81280	
1928-29	54210	43470	33990	27080	22830	26570	39340	118300	279200	173500	113200	71700	83840
1929-30	<u>43430</u>	31280	25170	20490	24020	29600	73160	164900	228700	199400	126700	79250	87520
1930-31	46230	33730	27780	23550	25100	32460	56300	163300	225500	168700	106600	79750	82710
1931-32	44120	35220	29130	30890	27090	58420	116900	260500	342000	240600	131500	80410	116600
1932-33	48670	50620	54070	44350	32520	38740	69580	197200	406500	348700	169500	94870	130100
1933-34	66210	91470	102100	117300	83360	76280	179200	<u>327900</u>	320200	178500	118600	75440	145000
1934-35	46930	59480	53020	45300	54750	50330	68970	183600	333400	264400	148300	82530	116200
1935-36	49110	35130	28990	27860	22530	32330	77970	263600	308000	171900	107500	67580	99550
1936-37	43520	<u>29930</u>	<u>24580</u>	<u>19550</u>	<u>19230</u>	<u>24850</u>	45090	138300	253600	197500	110700	69480	81670
1937-38	44280	59080	48840	48830	38390	52410	101700	226000	351700	238400	102800	74050	115800
1938-39	56530	39310	32800	34170	31380	36000	87680	236600	238500	190200	111300	68960	97360
1939-40	49580	52930	46840	36580	39090	51730	103000	156900	243700	168300	96170	77320	93530
1940-41	56390	50660	37960	38210	37730	49500	79720	147800	145800	94970	90560	85010	76350
1941-42	78230	71030	95550	61120	51730	48440	76850	150100	263000	222700	122000	68300	109400
1942-43	51020	43970	44430	41220	41180	39560	144300	203100	299700	282400	133900	65030	116200
1943-44	52210	47220	39830	47490	42320	39840	<u>33970</u>	91320	200400	123300	94630	65310	<u>73170</u>
1944-45	58130	47970	44010	41500	40490	42170	46730	162200	290600	188600	95150	63750	93670
1945-46	43690	43130	41380	45890	41450	54260	105800	295000	367200	234200	119800	77830	122800
1946-47	49540	42500	58250	50700	57000	68130	101500	282800	323800	213000	112500	69270	119400
1947-48	88050	77830	55220	58340	55950	51550	74220	274900	<u>552200</u>	231800	136800	84110	145000
1948-49	60230	48970	45470	46110	45000	48080	104600	284100	269600	141800	92200	<u>61620</u>	104300
1949-50	48120	46950	54770	56510	58340	67680	95430	195400	384100	<u>366900</u>	140800	81910	133500
1950-51	64550	71970	73440	80800	92150	78590	117800	295400	318900	278700	134100	72280	140200
1951-52	76380	63930	63530	72970	65860	76710	81260	265400	262800	197800	104400	62640	116400
1952-53	55630	54160	50650	48030	68210	77450	80020	128800	316100	233600	116500	85240	109600
1953-54	72080	65200	58350	64970	59290	69310	62200	232400	366400	339200	170100	111100	139700
1954-55	70370	68610	65160	65130	73910	81840	74970	79730	298300	317000	137100	78560	117800
1955-56	64740	70970	65080	69800	69500	70280	178400	292900	410400	230600	115900	76270	142900
1956-57	67060	63740	58420	74820	68020	52710	72220	281700	299700	148700	92500	62020	112000
1957-58	60880	58060	53560	56670	63960	82570	89240	201400	303500	153700	90070	64660	106600
1958-59	63490	56830	61400	73170	78480	93210	113900	220100	347600	280000	127400	112900	135900
1959-60	<u>108700</u>	99540	82410	73320	69260	68310	152300	179500	256400	237400	116700	71480	126400
1960-61	65880	66010	57020	60420	85680	86280	108500	223000	452400	189100	96550	65530	129600
1961-62	61850	60970	53790	66340	75970	57490	107300	178400	260700	188000	118700	65690	108000
1962-63	65160	69020	79600	80130	82430	72890	97550	145200	259500	197300	106900	69420	110500
1963-64	61390	56530	58560	55910	68810	60260	60040	160900	373800	281900	125200	70410	119500
1964-65	85010	72040	68140	77120	97870	84520	107100	227800	297700	209600	127500	75620	127600
1965-66	63860	66880	69980	68260	77530	73710	72730	176400	263700	221900	108800	76700	111900
1966-67	70410	65250	71240	73910	75720	87280	89920	133000	413100	275600	123000	82350	130200
1967-68	69600	69440	83320	72950	66980	105800	99010	122400	256100	216200	115200	89420	114000
1968-69	74250	76090	87900	102900	116400	107400	<u>185000</u>	218600	216700	184100	102600	76060	129000
1969-70	75440	85340	90130	83460	72130	80810	86710	126600	172100	117000	97530	71360	96670
1970-71	74430	69990	73860	69740	91440	133300	120900	260600	276200	186100	126000	69800	129600
1971-72	68790	77840	98880	93180	99890	142000	149300	217800	350500	216800	145500	91140	<u>146000</u>
1972-73	72930	76850	98940	89340	93540	98830	98670	<u>73740</u>	84400	105900	102100	72960	89040
1973-74	72760	62390	92260	142300	<u>146800</u>	113100	143400	186800	234700	192900	133200	104400	135300
1974-75	90620	93920	95330	100800	118600	139200	121900	155400	147000	108400	93020	66820	110900
1975-76	74620	92970	96430	116500	145800	143700	135500	184000	162300	178400	<u>184300</u>	<u>123700</u>	136600
1976-77	101800	91350	92830	110900	93710	91130	62260	90930	<u>70030</u>	<u>66390</u>	75020	76970	85320
1977-78	64460	79310	74740	99630	100800	90910	133300	142800	112100	117500	91490	105400	101000
1978-79	95130	100600	96040	119300	107400	89140	95190	115500	93470	86830	85250	72120	96300
1979-80	76130	96600	88980	104200	92800	77910	69820	121600	157800	106100	87580	66680	95500
1980-81	69200	82910	110800	<u>145500</u>	126100	101200	94580	137800	224700	181100	137900	82160	124500
1981-82	83180	83760	97900	115400	119100	185700	150100	164500	179300	172900	123500	82820	130000
1982-83	77560	99550	89040	110700	144000	<u>189500</u>	150300	151600	128300	135800	126400	77800	123300
1983-84	68620	83820	114800	106800	134500	106400	131400	132100	129800	114200	101400	69110	107600
1984-85	77210	75250	98220	144300	140200	108600	88820	124200	96860	73220	<u>62700</u>	62690	95820
1985-86	84290	<u>109900</u>	123500	77800	94200	117200	140300	127300	123500	114600	92990	70600	106400
1986-87	74380	88070	98080	119900	93080	75260	87890	138700	110300	81120	83120	77800	94020
1987-88	91240	80030	103100	112500	98470	86800	72220	107500	99950	77930	79700	86690	91380
1988-89	82120	98750	<u>126000</u>	124800	108600	74780	87160	151300	105300	71260	68680	71940	97540
MEAN	66800	66990	69600	73570	74890	77880	99200	183600	256700	190200	113800	77360	112500
MEDIAN	66210	66880	65160	69800	72130	75260	95190	164900	262800	188900	112900	75530	112000

WEL3H

USGS # 12450652

WELLS

River: COLUMBIA

Drainage Area: 86100 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 515.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67								5025					427
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 12450652

WELLS

River: COLUMBIA

Drainage Area: 86100 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 515.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-33405	-34206	-16498	
1928-29	-4593	-5678	-5077	-4604	-1472	6148	12657	62665	913	-33185	-16719	-15666	-358
1929-30	-7964	-7062	1221	-4293	6003	473	52208	12073	9369	-25555	-19029	-13171	200
1930-31	-8888	-3997	-4841	417	617	5132	14459	47896	-411	-23889	-17039	-12015	-217
1931-32	-5211	-1180	-1684	-5812	5241	11238	32983	52349	11404	-55159	-19906	-20777	205
1932-33	-4327	3088	-3738	-5077	-4475	3060	35229	54013	45512	-64738	-32832	-18361	482
1933-34	6718	-4048	15675	-15001	-11500	11476	80753	17284	-49473	-23792	-20716	-16608	-719
1934-35	-652	6398	-8412	277	-2019	374	22762	65643	748	-29354	-36498	-15830	270
1935-36	-7653	-4425	-2447	-1516	-3550	260	65292	46369	-37991	-29706	-15853	-12913	-159
1936-37	-7913	-5595	-609	-3404	216	1141	18061	60145	7301	-33929	-21986	-8751	365
1937-38	2945	-4574	-6382	-3602	-4814	5981	44411	62378	-5088	-48983	-21522	-6382	1182
1938-39	-10649	-5805	-3204	-3325	-7589	6475	41024	46492	-19268	-16628	-13952	-12053	181
1939-40	-74	-9823	-1760	-7838	-2544	10245	19672	84458	-19097	-25227	-10935	-6800	2622
1940-41	2862	-12842	-3853	-6847	-8015	1525	28192	35667	42925	33848	-7849	-5234	8446
1941-42	1280	-10264	-11371	-18719	-13517	-10720	36114	76118	20428	-10663	-13326	-12069	2845
1942-43	-8375	-4739	-8072	-12781	-8425	1409	63802	21327	13853	-20541	-22289	-10992	254
1943-44	-6578	-14473	-10561	-22155	-17957	-13100	26117	75068	6270	-11244	-10004	-2667	-52
1944-45	-9680	-8583	-17118	-9429	-7468	-4027	10342	83859	4371	-27529	-13660	-9967	-683
1945-46	-4337	-518	-4053	-8122	-8775	-2061	40507	67944	-19770	-30586	-18765	-10986	87
1946-47	-4747	675	-1150	-11080	-8021	-4151	39092	53824	-14212	-23827	-18509	-2952	424
1947-48	6039	-10149	-7795	-13072	-15878	-10478	44934	117463	-44881	-45129	-7377	-11743	310
1948-49	-7155	-7033	-14986	-20741	-7777	5417	44554	65618	-35556	-15403	-4548	-6794	-297
1949-50	-8015	2208	-8512	-22835	-14505	3592	15736	54840	73768	-58251	-17414	-13771	487
1950-51	-195	-4688	836	-20388	-5852	-20727	31501	78969	-6116	-18470	-21325	-4148	801
1951-52	2505	-10521	-16157	-32792	-22834	-31606	96391	66303	22665	-12540	-4684	-9092	3888
1952-53	-17921	-27110	-22626	-673	-15427	-33335	4129	121017	59601	-6782	-3903	-21239	3119
1953-54	-18123	-15847	-14995	-27382	-12299	-17104	30799	108616	24322	9476	-15127	-10100	3608
1954-55	-10456	-3244	-16008	-29338	-37612	-48792	-2471	114309	114342	-26613	-21399	-14284	1616
1955-56	-386	-5559	586	-17102	-31746	-12723	20446	111619	-2691	-14009	-11558	-12006	2280
1956-57	-12102	-23378	-15913	-45391	-28212	-1712	23800	146516	-4385	-8496	-11402	-8118	1217
1957-58	-16018	-21834	-18891	-21990	-9539	-26795	19597	158198	-5647	-12978	-2411	-4607	3262
1958-59	-6854	-2320	-8453	-10701	-33678	-41022	16002	67048	89805	-18500	-15094	66	3076
1959-60	-7250	-14537	-17131	-31283	-22991	-2131	7780	49798	84389	-11627	-13722	-3283	1448
1960-61	-9877	-13194	-19748	-22450	-8698	-20173	3349	126684	25795	-28387	1663	-10379	2144
1961-62	-5499	-21980	-18120	-33547	-27610	-15218	46066	66924	63179	-7757	-7487	-6305	2778
1962-63	-5561	-7942	-18607	-38265	-13338	-15408	7754	89287	43814	-6549	-2712	2515	2955
1963-64	-13623	-11635	-20683	-20219	-39129	-25620	19598	82801	89480	-17950	-6487	2948	3284
1964-65	-12509	-13967	-4383	-25689	-45904	-31784	49110	51634	74400	-6984	2081	-10038	2310
1965-66	-6940	-12882	-30575	-29400	-43425	-21864	52091	93349	52503	-9375	-269	-8228	3100
1966-67	-20610	-19287	-20212	-22390	-24327	-33507	-12260	135563	116685	-19375	-8877	-11062	5122
1967-68	-16575	-18468	-45386	-32769	-4899	-23762	-25865	121419	105533	18224	3510	5018	7128
1968-69	-3673	-10315	-36719	-51097	-70748	-49560	24371	153115	137726	1743	-12944	-10530	6256
1969-70	-22142	-41427	-55652	-46964	-29975	-36147	-21656	113229	173140	31089	-13067	-24205	2238
1970-71	-32577	-35187	-40907	-24574	-15372	-73852	5948	138321	124128	30034	1296	-11396	5491
1971-72	-21959	-37012	-61908	-54529	-50632	-21312	-30610	148111	181588	53765	-936	-27279	6586
1972-73	-25765	-40101	-59118	-50042	-60219	-50435	-28460	135392	156415	43133	-18954	-23049	-1483
1973-74	-29742	-1887	-23430	-30539	-70436	-39373	33649	112729	313426	97397	3000	-32184	27970
1974-75	-51783	-54918	-59661	-68722	-78107	-85947	-42680	104718	253881	139499	11133	943	6017
1975-76	-18442	-26384	-14819	-60304	-88493	-85807	5340	195812	146014	101656	6077	-10689	12873
1976-77	-51921	-55477	-62573	-79156	-64729	-62189	9597	71954	122832	34667	12979	-21424	-11973
1977-78	-28710	-42096	-20616	-60943	-61476	-23298	8924	116506	217700	101554	9534	-2197	18256
1978-79	-40213	-55993	-67623	-91329	-68812	-38234	-17412	146300	150282	57181	-5311	-17242	-3709
1979-80	-42886	-73365	-53958	-75796	-58536	-33276	78748	227418	106851	32451	-12062	-7114	7526
1980-81	-19022	-32930	-33030	-81765	-59160	-38093	14520	174925	84365	63496	-4023	-13416	5087
1981-82	-33318	-33348	-53952	-76975	-39870	-104655	-53133	112305	253863	73254	1124	3790	4028
1982-83	-17972	-51849	-43272	-56189	-82067	-88372	-24380	125593	178120	92935	-3706	-13017	1775
1983-84	-27131	-11797	-75789	-49269	-84763	-36614	-12478	52028	227521	99244	8810	-3818	7198
1984-85	-33937	-31428	-66803	-115666	-110240	-71383	30380	170390	166149	56780	8417	-2237	496
1985-86	-23918	-47915	-86446	-45218	-40639	-10815	-7956	112003	199534	46505	-2624	-21362	6042
1986-87	-31571	-41218	-63040	-93268	-62023	-172	40785	143613	100899	44489	-11006	-30307	78
1987-88	-65282	-53422	-73814	-88429	-72400	-45791	68102	123983	149372	58112	-413	-37518	-3126
1988-89	-31723	-47489	-87871	-86125	-78116	-21011	60809	116307	188420	76438	35988	-8712	10043
MEAN	-15060	-19383	-25511	-33578	-31321	-23080	21630	95870	74930	7804	-8723	-11263	2896

WEL3SS

USGS # 12450652

WELLS

River: COLUMBIA

Drainage Area: 86100 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 515.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										235800	114100	64780	
1928-29	49620	37790	28910	22480	21360	32720	<u>52000</u>	181000	280100	140300	96480	56030	83490
1929-30	35470	24220	26390	16200	30020	30070	125400	177000	238100	173800	107700	66080	87720
1930-31	37340	29730	<u>22940</u>	23970	25720	37590	70760	211200	225100	144800	89560	67730	82490
1931-32	38910	34040	27450	25080	32330	69660	149900	312800	353400	185400	111600	59630	116800
1932-33	44340	53710	50330	39270	28040	41800	104800	251200	452000	284000	136700	76510	130600
1933-34	72930	<u>87420</u>	<u>117800</u>	102300	71860	87740	<u>260000</u>	345200	270700	154700	97880	58830	144300
1934-35	46280	65880	44610	45580	52730	50700	91730	249200	334100	235000	111800	66700	116500
1935-36	41480	30700	26540	26340	<u>18980</u>	34940	143300	310000	270000	142200	91650	54670	99390
1936-37	35610	24340	23970	<u>16150</u>	19450	<u>25990</u>	63150	198400	260900	163600	88710	60730	82040
1937-38	47220	54510	42460	45230	33580	58390	146100	288400	346600	189400	81280	67670	117000
1938-39	45880	33510	29600	30850	23790	42480	128700	283100	219200	173600	97350	56910	97540
1939-40	49510	43110	45080	28740	36550	61980	122700	241400	224600	143100	85240	70520	96150
1940-41	59250	37820	34110	31360	29720	51030	107900	183500	<u>188700</u>	128800	82710	79780	84800
1941-42	79510	60770	84180	42400	38210	37720	113000	226200	283400	212000	108700	56230	112300
1942-43	42650	39230	36360	28440	32750	40970	208100	224400	313600	261900	111600	54040	116400
1943-44	45630	32750	29270	25330	24360	26740	60090	166400	206700	112100	84630	62640	<u>73120</u>
1944-45	48450	39390	26890	32070	33020	38140	57070	246100	295000	161100	81490	53780	92990
1945-46	39350	42610	37330	37770	32670	52200	146300	362900	347400	203600	101000	66840	122900
1946-47	44790	43170	57100	39620	48980	63980	140600	336600	309600	189200	93990	66320	119800
1947-48	94090	67680	47430	45270	40070	41070	119200	392400	507300	186700	129400	72370	145300
1948-49	53070	41940	30480	25370	37220	53500	149200	349700	234000	126400	87650	54830	104000
1949-50	40110	49160	46260	33680	43840	71270	111200	250200	457900	308600	123400	68140	134000
1950-51	64360	67280	74280	60410	<u>86300</u>	57860	149300	374400	312800	260200	112800	68130	141000
1951-52	78890	53410	47370	40180	43030	45100	177700	331700	285500	185300	99720	53550	120300
1952-53	37710	27050	28020	47360	52780	44120	84150	249800	375700	226800	112600	64000	112700
1953-54	53960	49350	43360	37590	46990	52210	93000	341000	390700	<u>348700</u>	155000	101000	143400
1954-55	59910	65370	49150	35790	36300	33050	72500	194000	412600	290400	115700	64280	119400
1955-56	64350	65410	65670	52700	37750	57560	198800	404500	407700	216600	104300	64260	145100
1956-57	54960	40360	42510	29430	39810	51000	96020	<u>428200</u>	295300	140200	81100	53900	113200
1957-58	44860	36230	34670	34680	54420	55770	108800	359600	297900	140700	87660	60050	109900
1958-59	56640	54510	52950	62470	44800	52190	129900	287100	437400	261500	112300	113000	139000
1959-60	<u>101500</u>	85000	65280	42040	46270	66180	160100	229300	340800	225800	103000	68200	127800
1960-61	56000	52820	37270	37970	76980	66110	111800	349700	478200	160700	98210	55150	131700
1961-62	56350	38990	35670	32790	48360	42270	153400	245300	323900	180200	111200	59390	110800
1962-63	59600	61080	60990	41860	69090	57480	105300	234500	303300	190800	104200	71940	113500
1963-64	47770	44900	37880	35690	29680	34640	79640	243700	463300	263900	118700	73360	122800
1964-65	72500	58070	63760	51430	51970	52740	156200	279400	372100	202600	129600	65580	129900
1965-66	56920	54000	39400	38860	34110	51850	124800	269700	316200	212500	108500	68470	115000
1966-67	49800	45960	51030	51520	51390	53770	77660	268600	529800	256200	114100	71290	135300
1967-68	53020	50970	37930	40180	62080	82000	73150	243900	361700	234500	118700	94430	121100
1968-69	70580	65780	51180	51840	45670	57800	209400	371700	354500	185800	89620	65530	135300
1969-70	53290	43910	34480	36490	42150	44660	65050	239800	345200	148100	84460	<u>47160</u>	98910
1970-71	41850	34810	32950	45160	76070	59410	126800	399000	400300	216200	127300	58400	135100
1971-72	46830	40830	36980	38650	49060	<u>120700</u>	118700	365900	532100	270500	144500	63860	152500
1972-73	47160	36750	39820	39300	33320	48390	70210	209100	240800	149000	83120	49910	87560
1973-74	43020	60500	68830	<u>111800</u>	76390	73770	177100	299500	<u>548100</u>	290300	136200	72230	<u>163300</u>
1974-75	38840	39000	35670	32120	40530	53210	79190	260100	400800	247900	104100	67760	116900
1975-76	56170	66590	81610	56210	57290	57930	140800	379800	308300	280000	<u>190400</u>	<u>113100</u>	149400
1976-77	49890	35870	30260	31730	28990	28940	71850	<u>162900</u>	192900	<u>101100</u>	88000	55550	73350
1977-78	35750	37210	54130	38690	39300	67610	142200	259300	329800	219100	101000	103200	119200
1978-79	54920	44600	28420	27980	38610	50910	77780	261800	243700	144000	79940	54870	92590
1979-80	33240	<u>23230</u>	35020	28430	34260	44630	148600	349000	264600	138500	75520	59570	103000
1980-81	50180	49980	77740	63750	66930	63070	109100	312700	309100	244600	133900	68750	129600
1981-82	49860	50420	43950	38440	79220	81090	96970	276800	433200	246200	124600	86610	134000
1982-83	59590	47700	45760	54470	61930	101100	125900	277200	306400	228800	122700	64780	125100
1983-84	41490	72030	38980	57540	49690	69820	118900	184200	357300	213500	110200	65300	114800
1984-85	43280	43820	31420	28600	29940	37210	119200	294600	263000	130000	<u>71120</u>	60460	96320
1985-86	60370	61970	37030	32590	53560	106400	132300	239300	323000	161100	90370	49240	112400
1986-87	42810	46850	35040	26650	31060	75090	128700	282300	211200	125600	72120	47490	94100
1987-88	<u>25960</u>	26610	29310	24070	26070	41010	140300	231500	249300	136000	79290	49170	88260
1988-89	50390	51260	38110	38680	30500	53770	148000	267600	293800	147700	104700	63230	107600
MEAN	51740	47610	44090	39990	43570	54800	120800	279400	331700	198000	105100	66090	115400
MEDIAN	49620	44900	38110	37970	39810	52210	119200	268600	313600	189300	104200	64530	116500

WEL3A

USGS # 12452400 CHELAN
Monthly mean historical streamflow in cfs.

River: CHELAN

Drainage Area: 924 Sq. Mi.
River Mile: 4.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										2851	1418	1677	
1928-29	1252	1521	1792	2342	2305	654	356	168	235	1599	2089	<u>2407</u>	1389
1929-30	2375	2314	1839	1432	<u>138</u>	<u>43</u>	72	154	890	2213	2204	1761	1296
1930-31	1552	1646	2040	1397	427	209	171	770	3276	2016	2266	2281	1509
1931-32	2153	1355	1197	<u>336</u>	473	665	880	3974	4950	2571	1495	1393	1790
1932-33	1786	<u>764</u>	2274	1165	1820	1854	588	1244	6516	5286	2296	1347	2248
1933-34	2457	<u>3287</u>	<u>2804</u>	2577	2958	1048	<u>4416</u>	<u>6731</u>	4462	2765	2196	2005	<u>3739</u>
1934-35	2007	787	<u>844</u>	1516	3949	2047	872	2490	5796	3593	2155	2237	2344
1935-36	2183	1997	2119	1581	1461	367	386	538	3867	1919	2156	2183	1727
1936-37	2150	2106	1810	1338	1178	676	899	544	1268	3387	2197	2166	1647
1937-38	2125	2050	1475	1155	907	868	746	3137	6293	3193	2140	2126	2188
1938-39	2165	2164	2130	899	694	931	765	863	1193	2670	2133	2105	1566
1939-40	2198	2221	2189	1788	980	1073	916	597	2319	2308	2200	2086	1742
1940-41	2143	2111	1299	1204	962	931	350	118	2176	1791	1841	1552	1374
1941-42	718	829	1158	1418	1302	1050	980	2491	3249	2677	1374	1540	1567
1942-43	1884	1426	902	1395	1302	1676	979	960	4691	5117	2188	1995	2046
1943-44	2059	2116	1891	1478	210	174	23	60	1068	1475	1467	1941	<u>1167</u>
1944-45	1984	2022	1957	1144	146	199	820	893	3051	2504	1741	2065	1550
1945-46	2124	1652	1294	1399	1829	1442	1549	1934	4238	3786	2222	2183	2137
1946-47	2024	1898	1465	1783	1535	1667	1182	1961	3018	2468	2220	2065	1943
1947-48	969	914	1236	2087	1749	1430	1140	2308	<u>9566</u>	2802	2251	2027	2365
1948-49	1842	1890	2365	2320	1798	1191	1200	1766	3635	3102	2202	2157	2124
1949-50	2160	1649	1371	2125	1512	1379	965	4040	6713	<u>6451</u>	2477	1355	2693
1950-51	952	1253	1725	1679	<u>4308</u>	2260	2657	6295	5576	4305	1651	1729	2855
1951-52	<u>651</u>	1988	1855	<u>3651</u>	1733	1446	1472	1400	1499	2257	1628	2063	1805
1952-53	1737	2067	1675	1651	1722	2016	1700	1496	797	4078	1967	1965	1910
1953-54	1623	2070	2206	2197	1933	2072	1089	2333	3284	6340	2980	2137	2531
1954-55	2188	2213	2232	2227	2192	2155	1563	97	2502	4590	2366	2098	2203
1955-56	1647	1247	1886	1761	3047	2325	1624	5660	7133	5386	2126	2033	2989
1956-57	2224	2283	2307	2302	2239	2093	1179	1302	5053	2292	1160	2236	2217
1957-58	2286	2317	2303	2222	1504	1910	1273	772	4063	2178	977	2131	1994
1958-59	2059	1755	1522	1874	3479	<u>2369</u>	1106	2212	5182	5373	1674	1882	2534
1959-60	<u>2491</u>	2331	2365	2754	2316	2332	1902	1611	5125	3975	1346	2187	2559
1960-61	2170	2086	2245	2146	1921	2166	1404	623	5322	3150	1333	1365	2159
1961-62	1553	2032	2094	2050	2001	1883	244	83	1878	2586	1455	1088	1578
1962-63	1632	2080	2087	2087	1102	1847	880	686	3677	2330	1460	777	1724
1963-64	2085	2099	2112	2119	2098	2081	1558	345	3154	4932	1698	<u>743</u>	2087
1964-65	1693	1964	2107	2107	1619	1017	950	1061	4981	3387	1837	851	1965
1965-66	1909	2046	2048	2042	2019	2002	1242	570	<u>168</u>	2791	1316	1846	1667
1966-67	2050	2090	2087	2067	2046	2026	1755	261	4650	4092	1451	1800	2195
1967-68	2081	2110	2124	2115	2116	2089	1053	1671	6968	4096	1662	2073	2510
1968-69	2136	2113	2157	2135	2135	2100	104	2146	6254	2191	1478	2013	2244
1969-70	2144	2180	2156	2093	2145	1761	56	167	852	1689	1401	2006	1552
1970-71	1839	1860	1891	1972	1224	2205	1346	3344	4472	4965	2828	2222	2525
1971-72	2232	2132	2234	2242	2221	1628	2173	3764	8005	4984	3008	2020	3052
1972-73	2176	2173	2185	2181	2143	842	<u>16</u>	<u>16</u>	292	1760	1603	1668	1420
1973-74	1616	2078	2113	2003	2140	2155	1813	1598	7383	5714	2837	1941	2782
1974-75	2152	1924	1954	2167	2135	2090	954	805	3481	4649	1816	1731	2157
1975-76	1889	2043	2134	2200	1987	2177	1838	4313	3366	5080	<u>3247</u>	2134	2708
1976-77	2061	1967	1912	1930	1162	695	428	21	189	<u>967</u>	1445	1515	1193
1977-78	1507	1475	2070	2123	2123	2147	1190	922	4635	3964	1877	1560	2132
1978-79	1963	2129	2082	1950	1755	1906	751	37	193	1090	1443	1760	1421
1979-80	1665	1845	1978	2115	2144	2128	1089	623	3052	2476	1491	1515	1841
1980-81	1504	1500	1870	2079	2044	1558	988	1352	3513	3007	1548	1362	1859
1981-82	1606	1970	2001	2023	2063	2060	1388	1953	5395	3817	1992	1551	2317
1982-83	1930	2053	2083	2074	2031	1358	2059	2128	4188	3374	1870	1717	2238
1983-84	1852	2046	2034	2011	2051	2034	2007	1384	2382	3803	2021	1185	2069
1984-85	1977	1965	2053	1974	1377	995	989	1013	1034	1799	845	1134	1432
1985-86	2062	2197	2203	2200	1486	978	1010	1129	3885	1894	1060	1115	1767
1986-87	1768	2178	2210	2204	2204	1921	867	2150	1806	1800	<u>730</u>	1118	1745
1987-88	2107	1872	1983	2200	2055	456	384	1147	1955	2444	1259	1193	1588
1988-89	2013	2207	2200	2200	2200	1504	2116	2200	2334	2020	1097	1320	1948
MEAN	1894	1912	1933	1918	1801	1514	1122	1614	3642	3229	1837	1765	2017
MEDIAN	2013	2046	2053	2067	1933	1676	1010	1244	3513	2826	1827	1912	1994

CHL3H

USGS # 12452400 CHELAN
Monthly mean storage change, at site, in cfs.

River: CHELAN

Drainage Area: 924 Sq. Mi.
River Mile: 4.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										91	-384	-1030	
1928-29	-361	-1129	-1363	-1952	-1951	-253	369	3521	4164	352	-987	-1744	-102
1929-30	-1902	-2014	-1455	-1316	382	748	2781	2890	2610	149	-960	-1104	59
1930-31	-1103	-1211	-1665	-948	-6	427	1199	4487	777	-59	-1290	-1446	-69
1931-32	-1664	-810	-770	99	851	1048	1651	1108	1152	293	-144	-876	156
1932-33	-1190	1251	-1094	-334	-1478	-1307	1252	2305	947	405	123	-287	54
1933-34	-448	-1006	-308	-1283	-1740	1481	3024	-59	562	43	-683	-1292	-134
1934-35	-1310	1030	184	-16	-2466	-958	739	3138	1102	341	-661	-1198	8
1935-36	-1733	-1736	-1858	-1230	-1300	128	2438	5654	1559	-155	-1253	-1693	-94
1936-37	-1811	-2033	-1480	-1248	-892	-158	190	3414	7056	112	-1270	-1480	31
1937-38	-1418	-1056	-692	-539	-340	36	2009	3478	1235	-53	-1238	-1381	4
1938-39	-1692	-1802	-1521	-57	-322	-181	1687	3886	2589	139	-1088	-1679	-3
1939-40	-1655	-1510	-1174	-1319	-381	41	1684	4905	2129	-400	-1369	-1386	-37
1940-41	-936	-1598	-623	-692	-547	328	3043	3389	827	-341	-1109	-833	77
1941-42	472	77	11	-976	-939	-602	1203	2039	943	-144	-528	-1238	32
1942-43	-1718	-1117	-379	-944	-803	-942	2232	3195	2084	277	-672	-1413	-15
1943-44	-1649	-1855	-1478	-1250	98	285	1490	3549	2847	21	-854	-1264	-9
1944-45	-1527	-1574	-1522	-474	686	375	152	4026	2008	-128	-976	-1634	-53
1945-46	-1307	-877	-709	-910	-1389	-750	545	6216	1751	96	-805	-1566	37
1946-47	-1521	-1378	-870	-1313	-759	-114	1816	4582	1707	112	-1216	-1469	-32
1947-48	281	-82	-551	-1511	-1270	-899	414	4787	1076	431	-629	-1271	72
1948-49	-965	-1252	-1741	-2049	-1282	-382	1499	6028	1816	43	-821	-1280	-24
1949-50	-1527	668	286	-1434	-945	-488	341	785	4216	213	-16	-480	132
1950-51	304	116	-91	-560	-2440	-1374	845	1707	1794	128	-133	-976	-43
1951-52	405	-1271	-1389	-3202	-1374	-967	956	4259	3107	565	-435	-1570	-73
1952-53	-1458	-2016	-1390	-770	-775	-1300	-101	3819	5049	912	-101	-1224	56
1953-54	-860	-1068	-1389	-1371	-1132	-1376	385	3845	3629	581	5	-656	53
1954-55	-1495	-422	-1235	-1674	-1619	-1712	-575	3061	5968	373	-491	-1261	-89
1955-56	-276	1198	-927	-1071	-2569	-1620	1854	3507	1334	283	-160	-954	55
1956-57	-1174	-1364	-844	-1634	-1627	-1212	753	7373	595	-91	-101	-1454	-49
1957-58	-1580	-1636	-1558	-1649	-601	-1046	394	7606	1631	-27	-16	-1526	7
1958-59	-1060	-520	106	-842	-2769	-1374	1603	3006	3049	176	37	-182	116
1959-60	0	-44	-533	-1987	-1578	-1153	642	2676	1975	181	-21	-1549	-112
1960-61	-1628	-1457	-1873	-1483	-882	-984	708	5184	3898	-91	43	-865	49
1961-62	-995	-1638	-1724	-1360	-864	-1317	2243	2974	3371	283	-155	-485	26
1962-63	-949	-767	-1066	-1530	111	-815	466	3761	1378	75	-107	55	48
1963-64	-1493	-1425	-1454	-1398	-1673	-1472	-176	3227	5551	283	0	33	-1
1964-65	-854	-1483	-1636	-1516	-846	-5	1317	3459	1383	181	-69	-298	-27
1965-66	-1444	-1474	-1605	-1672	-1779	-1434	889	4084	4384	315	-107	-1174	-79
1966-67	-1491	-1492	-1211	-1327	-1388	-1435	-827	4392	5814	224	21	-1014	27
1967-68	-820	-488	-923	-244	-435	21	158	3235	149	299	-112	-1042	-11
1968-69	-1556	-1395	-1395	-1379	-1605	-1310	2389	5569	1658	16	-629	-1068	-51
1969-70	-1400	-1615	-1585	-1634	-1646	-1205	884	3759	5597	491	-512	-1414	-20
1970-71	-1527	-1499	-1494	-1093	818	-1253	144	4406	3063	507	-363	-1415	18
1971-72	-1638	-1347	-1548	-1531	-1200	1138	124	4380	2293	992	-21	-898	69
1972-73	-1445	-1631	-1516	-1619	-1729	-356	1250	3864	3593	432	-592	-1046	-59
1973-74	-1193	-1416	-1410	-518	-1211	-1183	492	3245	4080	672	32	-860	66
1974-75	-1764	-1542	-1379	-1514	-1586	-1494	255	4111	4574	1094	-75	-915	-14
1975-76	-994	-520	912	-1039	-850	-1372	-185	1943	2454	656	-53	-689	24
1976-77	-1489	-1518	-1623	-1443	-674	-250	1011	2013	3013	308	-106	-904	-140
1977-78	-1219	-708	-653	-1535	-1435	-642	1443	3750	3158	213	-395	-176	154
1978-79	-1400	-1035	-1717	-1768	-1406	-1071	438	4459	3169	741	-496	-1173	-99
1979-80	-1288	-1649	-659	-1516	-1522	-1233	1928	5844	1669	107	-496	-821	36
1980-81	-1152	-707	477	-467	-774	-516	610	3373	413	-101	-133	-810	26
1981-82	-899	-1101	-1422	-1341	-926	-984	-140	2996	4212	539	-251	-678	2
1982-83	-1318	-1571	-1428	-911	-1102	474	285	4397	2025	-59	0	-904	0
1983-84	-1488	-641	-1606	126	-895	-733	-577	1192	5214	448	-299	-700	0
1984-85	-1376	-1386	-1801	-1738	-1127	-439	1070	3607	3702	240	-101	-573	8
1985-86	-1181	-1194	-1789	-1555	-582	1058	1340	3387	1345	-139	91	-551	22
1986-87	-1347	-1364	-1699	-1732	-1651	-692	1611	4841	2397	5	-11	-634	-15
1987-88	-1960	-1694	-1419	-1970	-1761	186	2662	3565	3043	112	-272	-672	-15
1988-89	-809	-981	-1370	-1521	-1508	-677	877	2811	3708	363	-48	-915	-1
MEAN	-1180	-1062	-1109	-1224	-1072	-578	1003	3705	2682	228	-411	-1016	1

CHL3S

USGS # 12452400

CHELAN

River: CHELAN

Drainage Area:

924 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

4.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										2941	1034	647	
1928-29	891	392	429	390	354	<u>401</u>	<u>725</u>	3690	4399	1951	1102	663	1287
1929-30	473	300	383	116	520	791	2852	3044	3500	2362	1243	657	1355
1930-31	449	434	375	449	421	636	1370	5257	4053	1958	975	835	1440
1931-32	489	545	427	435	1324	1714	2531	5082	6101	2865	1351	517	1947
1932-33	597	2016	1179	831	342	547	1841	3548	7463	5692	2419	1060	2302
1933-34	2009	2281	2497	1294	1218	2529	<u>7439</u>	6673	5024	2808	1513	713	3005
1934-35	697	1817	1009	1500	1483	1089	1612	5627	6898	3934	1494	1039	2352
1935-36	449	261	261	351	<u>160</u>	495	2824	6192	5426	1765	903	490	1633
1936-37	339	72	330	<u>90</u>	287	517	1089	3958	8324	3499	927	686	1678
1937-38	707	993	783	616	567	904	2755	6615	7528	3140	903	745	2192
1938-39	473	361	609	842	372	750	2452	4748	3782	2809	1044	426	1563
1939-40	543	711	1015	469	599	1114	2599	5502	4448	1908	831	700	1705
1940-41	1207	512	675	511	414	1259	3393	3507	<u>3003</u>	1450	732	719	1452
1941-42	1190	905	1169	442	362	448	2182	4530	4192	2533	845	<u>302</u>	1599
1942-43	166	309	523	451	499	734	3210	4155	6775	5395	1516	582	2031
1943-44	410	261	414	228	308	458	1513	3609	3915	1496	<u>613</u>	677	1158
1944-45	457	449	435	671	831	574	971	4918	5059	2376	764	431	1498
1945-46	817	775	585	489	441	692	2094	8150	5989	3882	1417	617	2174
1946-47	503	520	595	470	776	1553	2997	6543	4725	2580	1003	596	1911
1947-48	1250	832	685	576	479	531	1555	7095	10640	3233	1622	756	2438
1948-49	878	638	624	271	516	810	2699	7794	5451	3144	1381	877	2100
1949-50	633	2318	1657	691	567	891	1306	4825	10930	6665	2461	876	2825
1950-51	1256	1369	1634	1119	1868	886	3502	8002	7371	4433	1518	753	2812
1951-52	1057	717	466	448	359	479	2428	5660	4606	2823	1193	493	1731
1952-53	279	<u>52</u>	284	881	946	716	1599	5315	5846	4990	1866	741	1967
1953-54	763	1002	817	826	801	696	1474	6178	6913	<u>6921</u>	2985	1481	2584
1954-55	694	1791	997	553	573	442	987	3159	8470	4963	1876	837	2114
1955-56	1371	<u>2446</u>	960	690	478	704	3478	<u>9166</u>	8467	5669	1966	1079	3044
1956-57	1050	918	1463	668	612	880	1933	8676	5648	2201	1058	782	2168
1957-58	706	681	745	573	902	864	1666	8377	5694	2152	961	604	2001
1958-59	999	1234	1628	1032	710	995	2709	5219	8230	5549	1712	<u>1700</u>	2650
1959-60	<u>2491</u>	2287	1832	766	738	1179	2544	4288	7100	4157	1324	638	2447
1960-61	542	629	371	663	1039	1183	2112	5807	9220	3059	1376	499	2208
1961-62	558	394	369	690	1137	566	2487	3057	5250	2869	1300	603	1604
1962-63	683	1313	1021	557	1213	1032	1346	4447	5055	2405	1353	832	1772
1963-64	591	675	658	721	426	609	1383	3572	8705	5215	1698	776	2086
1964-65	840	481	471	591	772	1012	2266	4520	6364	3568	1767	554	1938
1965-66	466	572	444	370	240	567	2132	4654	4552	3106	1210	671	1589
1966-67	559	598	876	740	659	591	927	4653	10460	4316	1473	786	2222
1967-68	1262	1622	1201	1871	1681	2110	1211	4906	7117	4395	1550	1032	2498
1968-69	581	718	761	755	530	790	2493	7715	7912	2207	849	945	2193
1969-70	744	564	571	459	498	556	940	3926	6449	2180	889	592	1532
1970-71	312	361	397	879	<u>2042</u>	952	1491	7750	7535	5472	2465	807	2543
1971-72	593	786	685	712	1021	<u>2766</u>	2297	8143	10300	5976	2986	1121	<u>3121</u>
1972-73	730	542	669	562	414	487	1265	3879	3886	2192	1011	622	1360
1973-74	423	662	703	1485	929	972	2304	4844	<u>11460</u>	6386	2869	1081	2848
1974-75	388	382	574	653	549	596	1209	4916	8055	5742	1742	816	2143
1975-76	895	1522	<u>3045</u>	1161	1137	805	1653	6256	5820	5736	<u>3193</u>	1445	2732
1976-77	572	450	289	488	488	445	1439	<u>2034</u>	3202	<u>1275</u>	1339	611	<u>1053</u>
1977-78	288	767	1417	587	688	1505	2633	4672	7793	4177	1482	1384	2286
1978-79	563	1093	365	182	349	835	1189	4497	3362	1831	947	588	1322
1979-80	376	197	1318	599	622	894	3017	6467	4721	2583	995	693	1877
1980-81	352	793	2347	1612	1270	1041	1598	4725	3926	2906	1414	552	1885
1981-82	707	868	579	682	1137	1077	1248	4948	9607	4356	1742	873	2319
1982-83	612	482	655	1163	930	1832	2344	6526	6214	3316	1870	813	2238
1983-84	364	1405	428	<u>2137</u>	1156	1301	1430	2575	7596	4251	1722	484	2069
1984-85	601	579	<u>252</u>	236	251	556	2059	4620	4736	2039	743	561	1440
1985-86	881	1002	414	645	904	2037	2350	4516	5230	1755	1151	564	1789
1986-87	422	813	511	471	552	1228	2478	6991	4203	1805	719	484	1730
1987-88	<u>146</u>	179	564	230	294	642	3046	4712	4998	2556	987	520	1573
1988-89	1204	1227	830	679	692	827	2993	5011	6042	2383	1049	405	1947
MEAN	714	850	824	694	729	936	2126	5319	6324	3456	1427	749	2018
MEDIAN	597	681	655	616	599	810	2112	4916	5989	3000	1345	690	2001

CHL3A

USGS # 12453682

ROCKY REACH

River: COLUMBIA

Drainage Area: 87800 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 473.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										275200	151200	83040	
1928-29	55660	44890	35230	28320	23840	27210	39690	119800	285200	177100	114700	73150	85630
1929-30	44940	32620	26150	21610	24670	30350	74560	168200	232900	202200	128200	80730	89280
1930-31	47000	34470	28450	24190	25650	32730	56830	166700	228700	170500	108200	80980	84000
1931-32	44860	35990	29720	31520	27860	59840	118200	264600	347400	243200	132500	81470	118300
1932-33	49440	52230	55930	45490	33670	39540	70190	199400	416000	356200	171400	96010	132600
1933-34	68140	94860	104500	119600	85790	78780	<u>186200</u>	<u>336200</u>	325900	180100	119500	76510	148300
1934-35	48090	61170	54340	46960	57740	51990	70050	187300	341000	267700	150500	83800	118700
1935-36	50320	36280	30040	28700	23230	32780	78300	266800	312500	172700	108100	68660	100900
1936-37	<u>44540</u>	<u>30880</u>	<u>25490</u>	<u>20420</u>	<u>19900</u>	<u>25520</u>	45770	140200	260100	199500	111500	70580	83180
1937-38	45400	60270	50070	49820	39240	53290	102900	230700	356200	240400	104000	74800	117600
1938-39	57740	40400	33920	35070	31980	36550	88650	238200	240700	191300	112000	69970	98450
1939-40	50540	54440	48370	37700	39530	52530	104500	159900	245400	169100	97130	78060	94790
1940-41	57490	52090	38830	38950	38450	50570	82420	149400	148500	96340	91390	86080	77700
1941-42	79750	72330	96950	62660	53040	49260	78980	154300	267000	223900	123400	69480	111300
1942-43	52610	45470	45920	42790	42610	41010	147300	208200	308600	289700	137500	66860	119400
1943-44	53790	48700	41400	48550	43390	40910	<u>35260</u>	94520	205300	126300	96470	66800	<u>75140</u>
1944-45	59590	49460	45460	43130	41830	43210	48130	165700	298300	191400	96870	65280	95920
1945-46	45230	44840	42520	47280	42660	55470	107300	301400	373600	238700	121900	79630	125400
1946-47	51300	43810	59760	52030	58400	69870	104500	289600	329600	215800	114200	70760	122000
1947-48	89110	79770	56710	59590	57450	52580	75070	279200	<u>567700</u>	238800	140500	87210	148600
1948-49	62600	51060	47230	47670	46610	49620	107500	294400	279300	146200	94570	63440	107800
1949-50	49720	49290	57070	57900	59730	69330	97720	202300	394900	<u>374300</u>	145200	84020	137200
1950-51	66270	74420	75830	83530	95640	81390	122100	304400	327100	282900	137000	74350	144100
1951-52	77800	66050	65230	74930	67450	78400	84080	269900	267300	200400	105900	63470	118700
1952-53	56280	54860	51210	49180	69590	78690	81930	134800	322300	239100	118400	86460	112000
1953-54	73560	66850	60070	66280	60730	70630	63990	238400	375000	347400	173700	113800	143100
1954-55	72420	71380	67720	66850	75680	83840	77130	83780	309700	327300	142100	80700	121800
1955-56	66510	74070	66880	71360	71210	72000	182700	304900	425600	237900	118800	78070	147500
1956-57	68970	65760	60960	76370	69840	54070	74290	291500	307700	151900	94140	<u>63210</u>	115100
1957-58	62060	59330	54870	57850	65110	84360	91770	209700	310500	156600	91360	65860	109200
1958-59	65140	58810	63800	75380	80920	95850	117800	228200	359300	287900	130500	115100	140100
1959-60	<u>112400</u>	103400	86590	75310	71490	70110	156900	185600	265400	242800	119200	72930	130300
1960-61	66400	66530	57490	60650	85900	86490	103200	224600	456800	190100	96780	65840	130000
1961-62	62110	61390	54200	66740	76640	57740	107800	179200	262200	188800	118900	65770	108600
1962-63	65750	69610	80450	80460	82950	73320	97980	146700	261300	198400	107600	69580	111300
1963-64	61920	57100	59210	56490	68830	60440	60330	161800	377000	283600	126000	70150	120300
1964-65	85350	72590	68730	77660	98090	84490	107700	229200	299900	210500	128100	75790	128300
1965-66	64100	67160	70050	68460	77790	73800	73340	177900	264700	222900	109600	77440	112500
1966-67	71120	65830	71680	74370	76080	87820	90570	134800	417300	276200	123200	82720	131100
1967-68	72130	72290	84880	74460	68660	106300	95840	120100	263100	219200	115300	88150	115100
1968-69	73620	76500	89250	102400	116500	105500	176300	217800	221400	179500	100300	75510	127900
1969-70	79710	89370	92940	85850	74290	83220	89130	125000	174100	118600	98150	74170	98820
1970-71	76460	73460	77140	71960	92600	132900	121800	262100	287900	199700	127700	74500	133500
1971-72	74670	79510	98260	91860	104300	151200	154300	232800	378100	232300	152700	96370	<u>153900</u>
1972-73	79600	83260	101900	92030	92850	97430	98080	<u>74060</u>	81610	103100	98950	72620	89660
1973-74	73740	63370	92210	139700	<u>144900</u>	112500	140300	189600	254200	207500	129500	104600	137600
1974-75	91350	93140	95090	101500	115200	135900	118200	157100	150100	111500	96740	67110	111100
1975-76	75560	97510	103800	119000	139800	138100	131700	181000	162300	183300	<u>191100</u>	<u>124200</u>	137400
1976-77	107100	94090	94550	111900	92510	96270	68440	95880	<u>76790</u>	74530	78360	79780	89260
1977-78	65350	79180	77250	101200	102100	94750	134100	143800	122000	119100	91280	102700	102700
1978-79	96480	103300	100100	118100	109300	94300	96570	116500	95300	89510	87600	74630	98450
1979-80	79180	100900	94440	108700	98760	82950	73200	121700	162800	112300	91510	68740	99590
1980-81	70490	83800	111600	<u>148500</u>	127900	102200	94890	139300	231100	186000	139000	82210	126400
1981-82	84850	87620	99250	115800	122300	188800	158300	169900	192900	182500	124300	83920	134300
1982-83	77660	99090	88880	109300	142500	<u>192100</u>	155300	157000	132300	136600	123800	76240	124200
1983-84	71230	88810	117500	109000	137400	110000	134700	134400	138300	122100	104600	71940	111600
1984-85	79750	76820	100700	147200	143300	112100	91060	129400	100600	74550	<u>63240</u>	63550	98310
1985-86	87860	<u>112500</u>	<u>126000</u>	82140	96020	117300	140500	130200	126300	114900	95920	73340	108600
1986-87	77320	91740	101000	122700	96150	77500	89500	141700	113300	83340	83970	78420	96420
1987-88	93130	81770	104800	114800	100400	86700	69560	106800	99830	78100	78130	85110	91630
1988-89	81670	98950	125300	123700	108200	73440	85960	147000	103800	<u>70210</u>	64210	67970	95830
MEAN	68440	68810	71240	74810	76020	79140	100500	187100	263000	194000	115300	78460	114700
MEDIAN	68140	67160	67720	71960	74290	77500	95840	169900	265400	191400	114500	75650	115100

RRH3H

USGS # 12453682

ROCKY REACH

River: COLUMBIA

Drainage Area: 87800 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 473.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61							6270						515
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 12453682

ROCKY REACH

River: COLUMBIA

Drainage Area: 87800 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 473.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-33315	-34590	-17527	
1928-29	-4954	-6806	-6440	-6558	-3423	5894	13026	66187	5077	-32833	-17706	-17410	-460
1929-30	-9866	-9076	-234	-5609	6386	1221	54989	14964	11979	-25406	-19989	-14274	260
1930-31	-9991	-5208	-6506	-532	611	5559	15658	52383	366	-23948	-18330	-13462	-287
1931-32	-6875	-1991	-2454	-5713	6092	12286	34634	53457	12555	-54865	-20050	-21654	362
1932-33	-5517	4339	-4832	-5411	-5953	1753	36481	56317	46459	-64333	-32710	-18648	536
1933-34	6270	-5054	15367	-16284	-13240	12957	83777	17225	-48911	-23749	-21399	-17900	-853
1934-35	-1961	7428	-8248	261	-4485	-584	23502	68781	1850	-29013	-37160	-17029	278
1935-36	-9387	-6161	-4306	-2746	-4850	2735	67730	52023	-36432	-29860	-17107	-14607	-254
1936-37	-9724	-7628	-2089	-4652	-676	982	18251	63560	14357	-33817	-23256	-10232	396
1937-38	1527	-5630	-7074	-4140	-5153	6018	46420	65856	-3853	-49036	-22760	-7763	1186
1938-39	-12341	-7607	-4725	-3382	-7911	6294	42711	50377	-16679	-16489	-15040	-13732	178
1939-40	-1729	-11333	-2934	-9157	-2925	10286	21356	89363	-16968	-25627	-12303	-8186	2585
1940-41	1926	-14440	-4476	-7540	-8562	1853	31234	39056	43752	33506	-8959	-6067	8523
1941-42	1751	-10187	-11360	-19695	-14457	-11322	37316	78157	21370	-10808	-13854	-13307	2877
1942-43	-10093	-5855	-8451	-13725	-9228	467	66034	24522	15937	-20264	-22961	-12405	239
1943-44	-8226	-16328	-12039	-23406	-17859	-12815	27607	78616	9116	-11222	-10858	-3930	-61
1944-45	-11207	-10157	-18640	-9903	-6782	-3652	10494	87884	6380	-27657	-14636	-11601	-736
1945-46	-5644	-1395	-4762	-9032	-10164	-2812	41052	74161	-18019	-30490	-19571	-12551	124
1946-47	-6268	-703	-2020	-12393	-8781	-4264	40908	58406	-12505	-23715	-19725	-4422	392
1947-48	6320	-10231	-8346	-14583	-17147	-11377	45348	122250	-43806	-44698	-8006	-13014	383
1948-49	-8120	-8285	-16727	-22790	-9058	5035	46054	71646	-33740	-15360	-5370	-8074	-321
1949-50	-9542	2877	-8225	-24269	-15450	3103	18077	55626	77984	-58038	-17430	-14250	619
1950-51	109	-4572	745	-20948	-8292	-22101	32346	80676	-4322	-18342	-21459	-5124	758
1951-52	2911	-11792	-17546	-35994	-24208	-32574	97347	70562	25772	-11975	-5119	-10662	3814
1952-53	-19379	-29126	-24016	-1443	-16203	-34635	4028	124836	64649	-5869	-4004	-22463	3176
1953-54	-18983	-16915	-16384	-28753	-13431	-18480	31184	112461	27951	10058	-15121	-10756	3662
1954-55	-11951	-3666	-17242	-31013	-39231	-50504	-3046	117370	120311	-26239	-21890	-15544	1528
1955-56	-661	-4360	-341	-18173	-34315	-14343	22300	115126	-1358	-13727	-11718	-12959	2335
1956-57	-13276	-24742	-16757	-47025	-29838	-2924	24553	153889	-3790	-8587	-11503	-9573	1168
1957-58	-17598	-23471	-20449	-23639	-10141	-27841	19991	165803	-4016	-13005	-2427	-6134	3269
1958-59	-7914	-2840	-8347	-11543	-36447	-42396	17605	70054	92854	-18324	-15057	-115	3192
1959-60	-7250	-14581	-17664	-33271	-24569	-3284	8422	52475	86364	-11445	-13743	-4832	1336
1960-61	-11505	-14651	-21621	-23933	-9580	-21157	10327	131868	29694	-28478	1706	-11244	2709
1961-62	-6494	-23619	-19844	-34907	-28475	-16535	48308	69898	66551	-7475	-7642	-6790	2804
1962-63	-6510	-8709	-19673	-39795	-13227	-16222	8220	93048	45192	-6474	-2818	2570	3003
1963-64	-15116	-13059	-22136	-21618	-40801	-27092	19422	86028	95032	-17668	-6487	2981	3282
1964-65	-13362	-15450	-6019	-27205	-46750	-31789	50427	55093	75783	-6803	2012	-10336	2283
1965-66	-8383	-14355	-32180	-31071	-45203	-23298	52980	97433	56887	-9060	-376	-9403	3021
1966-67	-22101	-20779	-21422	-23717	-25715	-34942	-13087	139955	122499	-19151	-8855	-12076	5149
1967-68	-17395	-18956	-46308	-33013	-5334	-23741	-25707	124654	105682	18522	3398	3976	7117
1968-69	-5229	-11709	-38114	-52476	-72352	-50870	26760	158684	139384	1759	-13574	-11598	6205
1969-70	-23541	-43043	-57238	-48598	-31622	-37353	-20772	116988	178736	31580	-13579	-25619	2218
1970-71	-34104	-36686	-42400	-25667	-14554	-75105	6092	142728	127191	30541	933	-12811	5509
1971-72	-23598	-38358	-63457	-56060	-51832	-20174	-30486	152490	183881	54757	-957	-28177	6655
1972-73	-27210	-41732	-60634	-51661	-61947	-50791	-27210	139255	160008	43565	-19546	-24096	-1543
1973-74	-30935	-3303	-24841	-31057	-71647	-40556	34141	115974	317506	98069	3032	-33044	28036
1974-75	-53547	-56460	-61040	-70236	-79694	-87441	-42425	108829	258454	140593	11059	28	6003
1975-76	-19436	-26905	-13907	-61343	-89343	-87178	5155	197755	148468	102313	6024	-11378	12897
1976-77	-53410	-56994	-64196	-80598	-65403	-62439	10608	73967	125844	34975	12873	-22328	-12113
1977-78	-29929	-42804	-21269	-62478	-62911	-23940	10367	120256	220858	101768	9139	-2373	18411
1978-79	-41613	-57028	-69340	-93097	-70218	-39306	-16974	150760	153451	57923	-5807	-18414	-3808
1979-80	-44174	-75014	-54617	-77311	-60058	-34509	80677	233262	108519	32558	-12558	-7936	7562
1980-81	-20174	-33637	-32553	-82232	-59934	-38610	15130	178298	84779	63394	-4156	-14227	5113
1981-82	-34217	-34449	-55374	-78316	-40795	-105638	-53272	115301	258076	73793	873	3112	4030
1982-83	-19290	-53420	-44700	-57100	-83168	-87898	-24095	129991	180145	92876	-3706	-13921	1775
1983-84	-28618	-12438	-77394	-49143	-85658	-37347	-13055	53219	232736	99692	8512	-4518	7197
1984-85	-35314	-32814	-68604	-117404	-111366	-71823	31450	173997	169851	57020	8316	-2810	504
1985-86	-25099	-49109	-88235	-46773	-41221	-9757	-6616	115390	200879	46367	-2533	-21913	6063
1986-87	-32917	-42583	-64739	-95001	-63675	-864	42396	148453	103296	44495	-11017	-30941	63
1987-88	-67243	-55116	-75233	-90400	-74161	-45606	70764	127548	152416	58224	-685	-38191	-3141
1988-89	-32532	-48469	-89242	-87645	-79624	-21688	61685	119119	192128	76800	35940	-9627	10042
MEAN	-16240	-20445	-26621	-34802	-32393	-23658	22730	99580	77620	8032	-9134	-12279	2906

RRH3SS

USGS # 12453682

ROCKY REACH

River: COLUMBIA

Drainage Area: 87800 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 473.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										241900	116600	65510	
1928-29	50710	38080	28790	21760	20420	33100	<u>52720</u>	186000	290300	144300	96990	55740	85170
1929-30	35070	23540	25920	16000	31060	31570	129500	183200	244900	176800	108200	66460	89540
1930-31	37010	29260	<u>21940</u>	23660	26260	38290	72490	219100	229100	146600	89870	67520	83710
1931-32	37980	34000	27270	25810	33950	72130	152800	318100	360000	188300	112500	59820	118600
1932-33	43920	56570	51100	40080	27720	41290	106700	255700	462500	291900	138700	77360	133200
1933-34	74410	<u>89610</u>	<u>119900</u>	103300	72550	91740	<u>270000</u>	353400	277000	156400	98100	58610	147400
1934-35	46130	68600	46090	47220	53250	51410	93550	256100	342800	238700	113300	66770	118900
1935-36	40930	30120	25730	25950	<u>18380</u>	35520	146000	318800	276100	142800	90990	54050	100600
1936-37	34820	<u>23250</u>	23400	<u>15770</u>	19220	<u>26500</u>	64020	203800	274500	165700	88240	60350	83570
1937-38	46930	54640	43000	45680	34090	59310	149300	296600	352300	191400	81240	67040	118700
1938-39	45400	32790	29190	31690	24070	42840	131400	288600	224000	174800	96960	56240	98630
1939-40	48810	43110	45440	28540	36600	62820	125900	249300	228400	143500	84830	69870	97370
1940-41	59420	37650	34350	31410	29890	52420	113700	188500	<u>192300</u>	129800	82430	80010	86230
1941-42	81500	62140	85590	42970	38580	37940	116300	232500	288400	213100	109500	56170	114200
1942-43	42520	39610	37470	29070	33380	41480	213300	232700	324500	269400	114500	54460	119700
1943-44	45560	32370	29360	25140	25530	28090	62870	173100	214400	115100	85610	62870	<u>75080</u>
1944-45	48380	39300	26820	33230	35050	39560	58620	253600	304700	163700	82230	53680	95190
1945-46	39590	43450	37760	38250	32500	52660	148400	375600	355600	208200	102300	67080	125600
1946-47	45030	43110	57740	39640	49620	65610	145400	348000	317100	192100	94470	66340	122400
1947-48	95430	69540	48360	45010	40300	41200	120400	401500	523900	194100	132500	74200	148900
1948-49	54480	42780	30500	24880	37550	54660	153600	366000	245600	130800	89200	55370	107500
1949-50	40180	52170	48840	33630	44280	72430	113800	257900	472900	316300	127800	69770	137800
1950-51	66380	69850	76570	62580	<u>87350</u>	59290	154400	385100	322800	264600	115500	69230	144800
1951-52	80710	54260	47680	38940	43240	45830	181400	340500	293100	188400	100800	52810	122500
1952-53	36900	25730	27190	47740	53390	44060	85960	259600	386900	233200	114400	64000	115200
1953-54	54580	49930	43690	37530	47300	52150	95170	350900	403000	<u>357500</u>	158600	103000	146700
1954-55	60470	67710	50480	35840	36450	33340	74080	201100	430000	301100	120200	65160	123300
1955-56	65850	69710	66540	53190	36900	57660	205000	420000	424200	224200	107100	65110	149800
1956-57	55690	41020	44200	29350	40000	51150	98840	<u>445400</u>	303900	143300	82640	53640	116300
1957-58	44460	35860	34420	34210	54970	56520	111800	375500	306500	143600	88930	59730	112500
1958-59	57230	55970	55450	63840	44470	53450	135400	298300	452200	269600	115400	<u>115000</u>	143300
1959-60	<u>105200</u>	88820	68930	42040	46920	66830	165300	238100	351800	231400	105500	68100	131600
1960-61	54900	51880	35870	36720	76320	65330	113600	356500	486500	161600	98490	54590	132700
1961-62	55620	37770	34350	31840	48160	41200	156100	249100	328700	181400	111300	58980	111400
1962-63	59240	60900	60780	40670	69720	57100	106200	239800	306500	191900	104800	72150	114300
1963-64	46810	44040	37070	34870	28030	33350	79750	247800	472000	266000	119600	73130	123600
1964-65	71990	57140	62710	50460	51340	52700	158200	284300	375700	203700	130100	65460	130600
1965-66	55720	52800	37870	37390	32590	50510	126300	275400	321600	213900	109200	68030	115500
1966-67	49020	45050	50260	50660	50370	52880	77480	274800	539800	257000	114300	70640	136200
1967-68	54730	53340	38570	41450	63320	82520	70130	244800	368800	237700	118700	92120	122200
1968-69	68390	64790	51140	49890	44130	54590	203100	376500	360800	181300	86690	63910	134100
1969-70	56170	46320	35700	37260	42670	45870	68360	242000	352800	150200	84570	48550	101000
1970-71	42350	36780	34740	46290	78050	57790	127900	404800	415100	230200	128800	61690	139000
1971-72	51070	41150	34800	35800	52510	<u>131000</u>	123800	385300	561900	287000	151800	68190	160500
1972-73	52390	41530	41310	40360	30910	46630	70870	213300	241600	146600	79400	48530	88120
1973-74	42800	60070	67370	<u>108700</u>	73250	71940	174500	305600	<u>571700</u>	305600	132500	71540	<u>165600</u>
1974-75	37800	36680	34050	31270	35480	48490	75760	265900	408500	252100	107800	67140	117100
1975-76	56130	70600	89930	57650	50450	50880	136800	378800	310700	285600	<u>197100</u>	112900	150300
1976-77	53690	37100	30360	31270	27110	33830	79050	<u>169800</u>	202600	<u>109500</u>	91240	57450	77140
1977-78	35420	36380	55980	38710	39160	70810	144500	264000	342800	220900	100400	100400	121100
1978-79	54860	46280	30710	25000	39100	55000	79600	267300	248700	147400	81790	56220	94640
1979-80	35000	25920	39820	31400	38700	48440	153900	355000	271300	144900	78950	60800	107200
1980-81	50320	50160	79020	66280	68000	63620	110000	317600	315900	249400	134800	67980	131600
1981-82	50640	53170	43870	37480	81520	83140	105000	285200	451000	256200	125200	87030	138400
1982-83	58370	45670	44180	52170	59280	104200	131200	287000	312400	229500	120100	62320	125900
1983-84	42610	76370	40130	59830	51780	72680	121700	187600	371000	221800	113100	67420	118800
1984-85	44440	44000	32070	29790	31880	40240	122500	303400	270400	131600	<u>71550</u>	60740	98820
1985-86	62780	63340	37780	35370	54800	107500	133900	245600	327200	161300	<u>93390</u>	51430	114700
1986-87	44400	49160	36270	27680	32480	76640	131900	290100	216600	127800	72960	47480	96480
1987-88	<u>25890</u>	26650	29540	24390	26250	41090	140300	234400	252200	136300	77450	<u>46920</u>	88490
1988-89	49140	50480	36020	36040	28580	51750	147600	266100	295900	147000	100100	58340	105900
MEAN	52200	48360	44620	40010	43630	55490	123200	286700	340600	202100	106200	66180	117600
MEDIAN	50320	45670	38570	37260	39160	52420	123800	274800	322800	192000	105100	65130	118700

RRH3A

USGS # 12462552

ROCK ISLAND

River: COLUMBIA

Drainage Area: 89400 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 453.4

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										284200	155400	85650	
1928-29	57810	47000	37070	30150	25330	28150	40220	122100	294100	182500	116900	75290	88280
1929-30	47180	34610	27610	23270	25630	31450	76630	173000	239100	206400	130500	82930	91880
1930-31	48150	35560	29450	25130	26460	33130	57620	171800	233500	173200	110600	82790	85910
1931-32	<u>45950</u>	37120	30600	32450	29010	61930	120200	270700	355500	247000	133900	83040	120800
1932-33	50570	54810	58680	47180	35380	40720	71090	202500	430000	367400	174100	97710	136400
1933-34	71000	99380	108100	122900	89390	82510	<u>196500</u>	<u>348500</u>	334200	182400	120800	78110	153100
1934-35	49810	63680	56300	49420	62180	54450	71650	192700	352100	272500	153800	85670	122300
1935-36	52110	37990	31590	29940	24270	33450	78790	271500	319000	173800	108900	70250	102800
1936-37	46050	<u>32290</u>	<u>26840</u>	<u>21710</u>	<u>20900</u>	<u>26500</u>	46770	143000	269700	202500	112600	72200	85400
1937-38	47070	62040	51890	51300	40490	54600	104700	237700	362900	243200	105700	75900	120100
1938-39	59540	42000	35570	36400	32860	37380	90080	240600	244000	193000	113000	71480	100100
1939-40	51960	56660	50630	39350	40190	53710	106800	164400	248000	170300	98550	79170	96670
1940-41	59110	54200	40120	40040	39510	52150	86410	151800	152500	98360	92630	87660	79700
1941-42	81990	74270	99030	64940	54980	50470	82140	160500	273000	225600	125500	71230	114000
1942-43	54970	47690	48140	45110	44730	43150	151900	215700	321800	300500	142900	69580	124200
1943-44	56140	50900	43740	50110	44990	42500	<u>37160</u>	99280	212700	130600	99200	68990	<u>78050</u>
1944-45	61760	51670	47610	45550	43810	44740	50200	170900	309700	195600	99410	67540	99260
1945-46	47500	47380	44200	49330	44460	57260	109500	310900	383100	245300	125000	82310	129300
1946-47	53900	45750	61980	54000	60480	72460	108900	299600	338200	220000	116700	72970	125800
1947-48	90690	82650	58930	61450	59680	54110	76320	285600	<u>590600</u>	249000	146100	91790	153800
1948-49	66120	54150	49830	49990	48990	51900	111900	309800	293700	152700	98070	66120	113100
1949-50	52080	52750	60460	59970	61800	71780	101100	212500	411000	<u>385300</u>	151800	87150	142700
1950-51	68820	78040	79360	87580	100800	85520	128500	317700	339200	289000	141400	77410	149800
1951-52	79890	69190	67750	77840	69810	80910	88120	276300	273700	204100	107900	<u>64660</u>	121900
1952-53	57210	55850	52000	50830	71560	80450	84660	143400	331100	246900	121100	88200	115400
1953-54	75670	69200	62530	68150	62770	72510	66530	247000	387300	359100	178900	117800	147800
1954-55	75360	75320	71380	69310	78210	86700	80220	89580	326000	342000	149300	83760	127500
1955-56	69050	78510	69440	73590	73650	74450	188700	322100	447400	248300	123000	80640	154000
1956-57	71690	68640	64590	78590	72430	56010	77230	305600	319100	156500	96490	64900	119600
1957-58	63750	61150	56750	59540	66750	86920	95380	221500	320500	160800	93200	67580	112900
1958-59	67500	61640	67230	78520	84400	99630	123400	239800	375900	299100	134900	118100	146100
1959-60	<u>117600</u>	108900	92580	78180	74670	72680	163500	194300	278400	250500	122800	75000	135900
1960-61	67400	67830	58070	63710	89680	93410	106500	234500	464000	196700	99170	67090	133900
1961-62	64790	63510	57180	70150	77040	61000	113700	186100	273700	196500	123600	69210	113100
1962-63	66190	71750	80810	83930	84630	76370	100000	152900	272100	203100	107100	70940	114200
1963-64	67210	63210	63500	60310	76250	65940	67810	167400	387800	297300	133100	82550	127700
1964-65	87740	74220	71310	79670	101700	87930	115200	241500	314700	217000	130300	76820	133300
1965-66	65380	69300	71580	69800	78860	75550	79950	190200	275300	228900	111300	78250	116400
1966-67	68860	65150	73260	76230	78540	90540	92730	139700	427700	284700	125500	83400	134000
1967-68	76230	76400	87580	79490	74610	113800	103000	130300	274500	228400	116600	91550	121100
1968-69	76320	79980	89370	102300	112900	105200	182000	234000	234700	187400	100800	73970	131600
1969-70	81140	92780	96600	88880	76950	84740	92820	132300	185000	120800	101200	76510	102600
1970-71	76150	71280	76220	73530	93560	132900	122300	269500	298700	207900	130700	73540	135800
1971-72	75070	83770	99820	93350	108400	151800	159600	248400	397000	243200	157200	98240	<u>159500</u>
1972-73	81060	84480	103900	93930	96970	99170	101100	<u>79870</u>	86970	105600	99910	73290	92210
1973-74	75020	64970	93840	143200	<u>148100</u>	119700	149800	197600	263600	211500	133200	104400	142000
1974-75	94890	92970	97100	102100	115500	134500	119600	161300	159800	118400	97250	68570	113500
1975-76	82970	102800	107800	118500	142200	140700	136800	193700	169500	190600	<u>201800</u>	<u>122700</u>	142600
1976-77	103700	98470	98650	111600	94050	94470	71160	95450	<u>81610</u>	76550	79480	81010	90570
1977-78	67370	83800	82520	104800	105300	95870	137200	150500	130200	122300	93140	105800	106500
1978-79	99190	103900	97950	122100	107300	94310	102800	126500	100200	90850	87020	74580	100600
1979-80	78840	99420	95280	107500	97190	83800	78080	129200	163700	111600	90150	69590	100400
1980-81	70260	87210	118000	<u>152400</u>	133000	107500	99230	147300	239700	183000	137600	81400	129700
1981-82	84880	86750	98340	116700	124600	184900	155900	182100	195900	179200	123700	83450	134800
1982-83	79500	99320	91290	112400	147500	<u>200100</u>	161300	167400	141800	138700	124400	80670	128600
1983-84	71220	87850	115400	109600	135200	109400	132500	135700	141900	124700	102400	70090	111200
1984-85	78970	76580	99590	143400	140000	109900	94780	132200	104600	77720	<u>64450</u>	64830	98720
1985-86	86360	<u>111600</u>	124100	81540	96680	120600	143000	134000	131300	116300	96220	73630	109700
1986-87	77370	92670	100900	122200	96000	79090	92360	148000	116100	83770	83630	77040	97470
1987-88	91890	81190	104600	114900	101000	88070	74050	113200	106800	81750	78860	84720	93450
1988-89	82630	100500	<u>126500</u>	123100	108000	73510	90120	153100	111000	<u>72430</u>	65040	68120	97810
MEAN	70110	70890	73160	76610	77870	81130	104100	194900	272400	199300	117700	80150	118200
MEDIAN	69050	69300	71310	73590	76950	79090	100000	182100	274500	196600	116700	77230	119600

RIS3H

USGS # 12462552

ROCK ISLAND

River: COLUMBIA

Drainage Area: 89400 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 453.4

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										250900	120800	68120	
1928-29	52860	40190	30630	23590	21910	34040	<u>53250</u>	188300	299200	149700	99190	57880	87820
1929-30	37310	25530	27380	17660	32020	32670	131600	188000	251100	181000	110500	68660	92140
1930-31	38160	30350	<u>22950</u>	24600	27070	38690	73280	224200	233800	149200	92270	69320	85630
1931-32	39080	35130	28150	26740	35100	74220	154800	324200	368100	192200	113900	61390	121200
1932-33	45050	58950	53850	41770	29430	42470	107600	258800	476500	303100	141400	79060	136900
1933-34	77270	<u>94330</u>	<u>123400</u>	106800	76150	95460	<u>280300</u>	365700	285300	158600	99410	60210	152200
1934-35	47850	71110	48050	49680	57690	53870	95160	261500	353900	243400	116600	68640	122600
1935-36	42720	31830	27280	27190	<u>19420</u>	36190	146500	323500	282600	143900	91770	55640	102500
1936-37	36330	24660	24750	<u>17060</u>	20230	<u>27480</u>	65020	206600	284100	168700	89310	61970	85800
1937-38	48600	56410	44820	47160	35340	60620	151100	303600	359000	194200	82900	68140	121300
1938-39	47200	34390	30840	33020	24950	43670	132800	291000	227300	176500	97960	57740	100200
1939-40	50230	45330	47690	30190	37260	64000	128100	253800	231000	144700	86240	70980	99250
1940-41	61030	39760	35640	32500	30940	54010	117600	190900	<u>196300</u>	131900	83670	81590	88220
1941-42	83750	64090	87670	45250	40520	39150	119500	238600	294300	214800	111600	57930	116900
1942-43	44880	41830	39690	31390	35500	43620	217900	240300	337800	280300	119900	57180	124500
1943-44	47910	34570	31700	26700	27130	29680	64770	177900	221800	119400	88340	65060	<u>77990</u>
1944-45	50560	41520	28970	35640	37030	41080	60690	258800	316100	167900	84780	55940	98530
1945-46	41860	45990	39440	40300	34290	54450	150600	385100	365000	214800	105400	69760	129400
1946-47	47640	45050	59960	41610	51700	68190	149800	358100	325700	196300	97020	68540	126200
1947-48	97010	72420	50580	46870	42540	42730	121700	407900	546800	204300	138100	78770	154200
1948-49	58000	45870	33100	27200	39930	56940	158000	381500	259900	137400	92700	58040	112800
1949-50	42540	55630	52240	35700	46350	74880	117200	268100	488900	327200	134400	72900	143400
1950-51	68930	73470	80110	66630	<u>92510</u>	63420	160800	398400	334800	270700	119900	72290	150500
1951-52	82800	57400	50200	41840	45600	48340	185500	346800	299400	192100	102800	54000	125700
1952-53	37830	26730	27980	49390	55360	45810	88680	268200	395700	241000	117100	65740	118500
1953-54	56690	52290	46150	39400	49340	54030	97710	359500	415200	<u>369200</u>	163800	107000	151500
1954-55	63410	71650	54140	38290	38980	36200	77170	207000	446300	315800	127400	68210	129000
1955-56	68390	74150	69100	55420	39340	60100	211000	437200	446000	234500	111200	67680	156300
1956-57	58410	43890	47840	31570	42590	53090	101800	<u>459500</u>	315300	147900	84990	55330	120700
1957-58	46150	37680	36300	35900	56610	59070	115400	387300	316500	147800	90770	61450	116200
1958-59	59590	58800	58880	66980	47950	57230	141000	309900	468700	280800	119800	<u>118000</u>	149300
1959-60	<u>110400</u>	94320	74890	44890	50100	69390	171900	246800	364700	239100	109000	70170	137200
1960-61	55900	53180	36450	39770	80100	72260	116800	366300	493700	168200	100900	55850	136600
1961-62	58300	39890	37340	35250	48570	44470	162000	256000	340300	189000	115900	62420	116000
1962-63	59680	63040	61140	44140	71410	60150	108300	246000	317300	196600	104300	73510	117200
1963-64	52090	50150	41360	38690	35450	38850	87230	253400	482600	279600	126600	85530	131000
1964-65	74380	58770	65290	52460	54960	56140	165600	296600	390500	210200	132300	66480	135600
1965-66	57000	54940	39400	38730	33660	52250	132900	287600	332200	219800	111000	68850	119400
1966-67	46760	44370	51840	52510	52820	55590	79650	279700	550200	265600	116700	71320	139100
1967-68	58830	57440	41280	46470	69280	90080	77340	254900	380200	246900	120000	95530	128200
1968-69	71090	68270	51250	49790	40540	54320	208700	392700	374100	189100	87230	62370	137800
1969-70	57600	49740	39370	40280	45330	47390	72050	249300	363700	152400	87600	50890	104800
1970-71	42040	34590	33820	47870	79000	57790	128400	412200	425900	238400	131600	60730	141300
1971-72	51480	45410	36360	37290	54580	<u>131600</u>	129100	400800	580900	298000	156200	70070	166100
1972-73	53850	42740	43270	42270	35020	48380	73870	219100	247000	149200	80370	49190	90670
1973-74	44080	61670	69000	<u>112200</u>	76500	79160	184000	313600	<u>581100</u>	309600	136200	71400	<u>170000</u>
1974-75	41350	36510	36060	31890	35820	47040	77130	270100	418300	259000	108300	68600	119500
1975-76	63530	75860	93890	57120	52860	53530	142000	391400	318000	293000	<u>207800</u>	111300	155500
1976-77	50310	41480	34460	31000	28650	32030	81760	<u>169400</u>	207500	<u>111500</u>	92350	58680	78460
1977-78	37440	41000	61250	42340	42360	71930	147500	270700	351100	224100	102300	103400	124900
1978-79	57570	46880	28600	29000	37130	55000	85870	277300	253700	148800	81220	56170	96760
1979-80	34660	<u>24410</u>	40660	30220	37130	49290	158800	362400	272200	144200	77590	61660	107900
1980-81	50090	53580	85500	70160	73070	68930	114400	325600	324500	246400	133400	67170	134800
1981-82	50660	52300	42970	38350	83800	79300	102600	297400	454000	253000	124600	86560	138900
1982-83	60210	45900	46590	55270	64310	112200	137200	297300	321900	231600	120700	66750	130400
1983-84	42600	75410	38040	60450	49500	72100	119500	189000	374600	224400	111000	65570	118400
1984-85	43650	43770	30990	25950	28630	38080	126200	306200	274400	134700	72760	62020	99230
1985-86	61270	62460	35820	34760	55450	110900	136400	249400	332200	162700	93690	51710	115700
1986-87	44460	50090	36160	27200	32330	78220	134800	296500	219400	128300	<u>72610</u>	<u>46100</u>	97530
1987-88	<u>24650</u>	26070	29400	24500	26790	42470	144800	240800	259200	140000	78170	46530	90310
1988-89	50090	52070	37210	35430	28420	51830	151800	272200	303100	149200	101000	58490	107900
MEAN	53870	50450	46540	41800	45480	57480	126800	294400	350000	207300	108500	67870	121100
MEDIAN	50560	46880	40660	38730	40540	54030	128100	279700	332200	196400	106800	66620	121200

RIS3A

USGS # 12464612

WANAPUM

River: COLUMBIA

Drainage Area: 90700 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 415.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
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1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63								7661	-1127	2174	429		779
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70													0
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1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

WAN3F

Summation of monthly storage changes, at site and upstream, in cubic feet per second

River Mile: 415.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-33315	-34590	-17527	
1928-29	-4954	-6806	-6440	-6556	-3423	5894	13026	66187	5077	-32833	-17706	-17410	-460
1929-30	-9866	-9076	-234	-5609	6386	1221	54989	14964	11979	-25406	-19989	-14274	260
1930-31	-9991	-5208	-6506	-532	611	5559	15658	52383	366	-23948	-18330	-13462	-287
1931-32	-6875	-1991	-2454	-5713	6092	12286	34634	53457	12555	-54865	-20050	-21654	362
1932-33	-5517	4339	-4832	-5411	-5953	1753	36481	56317	46459	-64333	-32710	-18648	536
1933-34	6270	-5054	15367	-16284	-13240	12957	83777	17225	-48911	-23749	-21399	-17900	-853
1934-35	-1961	7428	-8248	261	-4485	-584	23502	68781	1850	-29013	-37160	-17029	278
1935-36	-9387	-6161	-4306	-2746	-4850	2735	67730	52023	-36432	-29860	-17107	-14607	-254
1936-37	-9724	-7628	-2089	-4652	-676	982	18251	63560	14357	-33817	-23256	-10232	396
1937-38	1527	-5630	-7074	-4140	-5153	6018	46420	65856	-3853	-49036	-22760	-7763	1186
1938-39	-12341	-7607	-4725	-3382	-7911	8294	42711	50377	-16679	-16489	-15040	-13732	178
1939-40	-1729	-11333	-2934	-9157	-2925	10286	21356	89363	-16968	-25627	-12303	-8186	2585
1940-41	1926	-14440	-4476	-7540	-8562	1853	31234	39056	43752	33506	-8959	-6067	8523
1941-42	1751	-10187	-11360	-19695	-14457	-11322	37316	78157	21370	-10808	-13854	-13307	2877
1942-43	-10093	-5855	-8451	-13725	-9228	467	66034	24522	15937	-20264	-22961	-12405	239
1943-44	-8226	-16328	-12039	-23406	-17859	-12815	27607	78616	9116	-11222	-10858	-3930	-61
1944-45	-11207	-10157	-18840	-9903	-6782	-3652	10494	87884	6380	-27657	-14636	-11601	-736
1945-46	-5644	-1395	-4762	-9032	-10164	-2812	41052	74161	-18019	-30490	-19571	-12551	124
1946-47	-6268	-703	-2020	-12393	-8781	-4264	40908	58406	-12505	-23715	-19725	-4422	392
1947-48	6320	-10231	-8346	-14583	-17147	-11377	45348	122250	-43806	-44698	-8006	-13014	383
1948-49	-8120	-8285	-16727	-22790	-9058	5035	46054	71646	-33740	-15360	-5370	-8074	-321
1949-50	-9542	2877	-8225	-24269	-15450	3103	16077	55626	77984	-58038	-17430	-14250	619
1950-51	109	-4572	745	-20948	-8292	-22101	32346	80676	-4322	-18342	-21459	-5124	758
1951-52	2911	-11792	-17546	-35994	-24208	-32574	97347	70562	25772	-11975	-5119	-10682	3814
1952-53	-19379	-29126	-24016	-1443	-16203	-34635	4028	124836	64649	-5869	-4004	-22463	3176
1953-54	-18983	-16915	-16384	-28753	-13431	-18480	31184	112461	27951	10058	-15121	-10756	3662
1954-55	-11951	-3666	-17242	-31013	-39231	-50504	-3046	117370	120311	-26239	-21890	-15544	1528
1955-56	-661	-4360	-341	-18173	-34315	-14343	22300	115126	-1358	-13727	-11718	-12959	2335
1956-57	-13276	-24742	-16757	-47025	-29838	-2924	24553	153889	-3790	-8587	-11503	-9573	1168
1957-58	-17598	-23471	-20449	-23639	-10141	-27841	19991	165803	-4016	-13005	-2427	-6134	3269
1958-59	-7914	-2840	-8347	-11543	-36447	-42396	17605	70054	92854	-18324	-15057	-115	3192
1959-60	-7250	-14581	-17664	-33271	-24569	-3284	8422	52475	86364	-11445	-13743	-4832	1336
1960-61	-11505	-14651	-21621	-23933	-9580	-21157	10327	131868	29694	-28478	1706	-11244	2709
1961-62	-6494	-23619	-19844	-34907	-28475	-16535	48308	69898	66551	-7475	-7642	-6790	2804
1962-63	-6510	-8709	-19673	-39795	-13227	-16222	8220	100709	44065	-4300	-2389	2570	3782
1963-64	-15116	-13059	-22136	-21618	-40801	-27092	19422	86028	95032	-17668	-6487	2981	3282
1964-65	-13362	-15450	-6019	-27205	-46750	-31789	50427	55093	75783	-6803	2012	-10336	2283
1965-66	-8383	-14355	-32180	-31071	-45203	-23298	52980	97433	56887	-9060	-376	-9403	3021
1966-67	-22101	-20779	-21422	-23717	-25715	-34942	-13087	139955	122499	-19151	-8855	-12076	5149
1967-68	-17395	-18956	-46308	-33013	-5334	-23741	-25707	124654	105682	18522	3398	3976	7117
1968-69	-5229	-11709	-38114	-52476	-72352	-50870	26760	158684	139384	1759	-13574	-11598	6205
1969-70	-23541	-43043	-57238	-48598	-31622	-37353	-20772	116988	178736	31580	-13579	-25619	2218
1970-71	-34104	-36686	-42400	-25667	-14554	-75105	6092	142728	127191	30541	933	-12811	5509
1971-72	-23598	-38358	-63457	-56060	-51832	-20174	-30486	152490	183881	54757	-957	-28177	6655
1972-73	-27210	-41732	-60634	-51661	-61947	-50791	-27210	139255	160008	43565	-19546	-24096	-1543
1973-74	-30935	-3303	-24841	-31057	-71647	-40556	34141	115974	317506	98069	3032	-33044	28036
1974-75	-53547	-56460	-61040	-70236	-79694	-87441	-42425	108829	258454	140593	11059	28	6003
1975-76	-19436	-26905	-13907	-61343	-89343	-87178	5155	197755	148468	102313	6024	-11378	12897
1976-77	-53410	-56994	-64196	-80598	-65403	-62439	10608	73967	125844	34975	12873	-22328	-12113
1977-78	-29929	-42804	-21269	-62478	-62911	-23940	10367	120256	220858	101768	9139	-2373	18411
1978-79	-41613	-57028	-69340	-93097	-70218	-39306	-16974	150760	153451	57923	-5807	-18414	-3808
1979-80	-44174	-75014	-54617	-77311	-60058	-34509	80677	233262	108519	32558	-12558	-7936	7562
1980-81	-20174	-33637	-32553	-59934	-38610	-13810	15130	178298	84779	63394	-4156	-14227	5113
1981-82	-34217	-34449	-55374	-78316	-40795	-105638	-53272	115301	258076	73793	873	3112	4030
1982-83	-19290	-53420	-44700	-57100	-83168	-87898	-24095	129991	180145	92876	-3706	-13921	1775
1983-84	-28618	-12438	-77394	-49143	-85658	-37347	-13055	53219	232736	99692	8512	-4518	7197
1984-85	-35314	-32814	-68604	-117404	-111366	-71823	31450	173997	169851	57020	8316	-2810	504
1985-86	-25099	-49109	-88235	-46773	-41221	-9757	-6616	115390	200879	46367	-2533	-21913	6063
1986-87	-32917	-42583	-64739	-95001	-63675	-864	42396	148453	103296	44495	-11017	-30941	63
1987-88	-67243	-55116	-75233	-90400	-74161	-45606	70764	127548	152416	58224	-685	-38191	-3141
1988-89	-32532	-48469	-89242	-87645	-79624	-21688	61685	119119	192128	76800	35940	-9627	10042
MEAN	-16240	-20445	-26621	-34802	-32393	-23658	22730	99700	77600	8067	-9127	-12279	2919

USGS # 12472710

PRIEST RAPIDS

River: COLUMBIA

Drainage Area: 95500 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 397.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										284200	155400	85650	
1928-29	57810	47000	37070	30150	25330	28150	40220	122100	294100	182500	116900	75290	88290
1929-30	47180	34610	27610	23270	25630	31450	76630	173000	239100	206400	130500	82930	91880
1930-31	48150	35580	29450	25130	26460	33130	57620	171800	233500	173200	110600	82790	85910
1931-32	<u>45950</u>	37120	30600	32450	29010	61930	120200	270700	355500	247000	133900	83040	120800
1932-33	50570	54610	58680	47180	35380	40720	71090	202500	430000	367400	174100	97710	136400
1933-34	71000	99380	108100	122900	89390	82510	<u>196500</u>	<u>348500</u>	334200	182400	120800	78110	153100
1934-35	49810	63880	56300	49420	62180	54450	71650	192700	352100	272500	153800	85670	122300
1935-36	52110	37990	31590	29940	24270	33450	78790	271500	319000	173800	108900	70250	102800
1936-37	48050	<u>32290</u>	<u>26840</u>	<u>21710</u>	<u>20900</u>	<u>26500</u>	46770	143000	269700	202500	112600	72200	85400
1937-38	47070	62040	51890	51300	40490	54800	104700	237700	362900	243200	105700	75900	120100
1938-39	59540	42000	35570	36400	32860	37380	90080	240600	244000	193000	113000	71480	100100
1939-40	51960	56660	50630	39350	40190	53710	106800	164400	248000	170300	98550	79170	96670
1940-41	59110	54200	40120	40040	39510	52150	86410	151800	152500	98360	92640	87660	79700
1941-42	81990	74270	99150	64940	54980	50470	82130	160600	273100	225600	125400	71230	114000
1942-43	54970	47690	48140	45110	44730	43150	151900	215800	321900	300500	142900	69580	124300
1943-44	56140	50900	43740	50110	44990	42500	<u>37160</u>	99310	212800	130700	99170	68990	<u>78070</u>
1944-45	61760	51670	47610	45550	43810	44740	50200	171000	309800	195600	99390	67540	99280
1945-46	47500	47380	44200	49330	44460	57260	109600	311000	383000	245400	125000	82310	129300
1946-47	53900	45750	61980	54000	60480	72460	108900	299700	338300	219900	116800	72970	125800
1947-48	90740	82610	58930	61450	59680	54110	76290	285700	<u>590700</u>	249200	146100	91830	153800
1948-49	66120	54150	49830	49990	48990	51900	111900	309900	293700	152800	98170	66120	113100
1949-50	52080	52750	60480	59970	61800	71780	101200	212500	411000	<u>385400</u>	151800	87110	142800
1950-51	68820	78040	79370	87610	100800	85520	128600	317700	339300	289000	141400	77410	149800
1951-52	79890	69190	67750	77840	69810	80910	88130	276300	273700	204100	107900	<u>64660</u>	121900
1952-53	57210	55850	52000	50830	71560	80450	84660	143300	331100	246900	121100	88220	115400
1953-54	75670	69200	62530	68150	62770	72510	66530	247000	387300	359100	178900	117800	147900
1954-55	75360	75320	71380	69310	78210	86700	80220	89550	326100	342100	149400	83760	127500
1955-56	69050	78510	69440	73590	73650	74440	188700	322100	447500	248300	122900	80640	154000
1956-57	71690	68640	64590	78590	72430	56010	77230	305700	319200	156600	96490	64900	119600
1957-58	63750	61150	56750	59540	66750	86930	95320	221600	320500	160800	93180	67580	113000
1958-59	67500	61640	67230	78520	84400	99680	123500	239800	375800	299200	134900	118100	146100
1959-60	<u>118200</u>	109000	92780	77350	75130	68910	163700	193800	279100	251800	122400	74190	135600
1960-61	66600	66500	58050	63270	90190	92670	103800	227400	461400	196100	100500	65000	132500
1961-62	61600	59480	52570	65040	74180	58170	109000	182100	270400	192500	123100	65980	109600
1962-63	65380	70140	79950	83090	84480	75940	98340	141000	270400	200900	104700	69470	112000
1963-64	61550	56100	59480	55070	72700	61220	63110	167600	388300	294300	130200	74570	123700
1964-65	88820	70940	69470	78050	101500	91530	114100	237500	315200	219900	129600	78330	133000
1965-66	64540	70590	74740	68230	81340	77630	76270	183500	274000	227600	110500	73590	115400
1966-67	66660	65470	73700	75730	76290	89960	90660	139500	432500	288200	126100	82110	134000
1967-68	73220	75820	89770	78780	74660	109000	100300	127000	271400	226600	114100	91260	119400
1968-69	77670	78800	92060	104600	119700	106800	186100	232500	234100	187900	101000	75430	133100
1969-70	82110	89060	96700	87160	76690	85220	91760	129600	181700	123900	100700	74470	101700
1970-71	75180	74540	77120	70240	95030	133100	121500	269800	298200	207600	131900	74430	136000
1971-72	71340	81000	98820	92120	105000	152400	158000	236900	388800	238400	152800	94570	<u>155800</u>
1972-73	80540	83140	102100	93030	96790	101200	99070	<u>79060</u>	87390	106000	101600	71320	91800
1973-74	78680	66560	96120	142200	<u>147200</u>	115300	145600	196900	260800	213100	136800	104900	142000
1974-75	95430	95730	97440	105100	118300	137100	120600	163500	161900	118800	99100	69980	115300
1975-76	81010	101800	109900	122400	143600	142400	136600	185100	166900	185600	<u>191000</u>	<u>126700</u>	141200
1976-77	105500	96910	97360	113300	97710	97900	69480	95700	<u>78810</u>	<u>71850</u>	78950	79990	90330
1977-78	66390	82670	81800	101800	103700	96290	138400	150600	129100	126000	95680	107800	106600
1978-79	101100	107100	101400	125300	111100	96390	102400	127300	103000	93300	88850	75720	102700
1979-80	81400	101500	97640	110300	99230	85430	80390	135000	171000	114400	92850	71180	103300
1980-81	71980	86530	118400	<u>153200</u>	132200	106400	99360	147500	239300	188400	141700	84220	130800
1981-82	87530	89280	100700	119800	126900	193300	161000	183700	204800	186700	126200	84990	138900
1982-83	80390	100000	91140	114800	147000	<u>201800</u>	162700	168700	144000	141000	127200	80370	129900
1983-84	72840	89780	120500	112900	139700	113800	137900	141300	147000	128800	105200	72770	115100
1984-85	81590	79460	102300	148100	145500	113200	96910	136400	108500	79700	<u>66740</u>	67170	101900
1985-86	89310	<u>115200</u>	128300	85100	98910	123200	147700	138900	136200	118700	98930	75440	113000
1986-87	80760	97840	104700	127400	98900	81690	96650	155200	119000	87070	86090	80590	101400
1987-88	96570	82690	108200	118300	103300	90490	77420	117300	110800	84700	81560	88790	96710
1988-89	85750	103300	<u>131100</u>	128600	111300	77420	93330	158200	115800	74730	67040	70950	101400
MEAN	70330	70970	73670	76960	78430	81600	104100	194500	272800	199700	117900	80240	118400
MEDIAN	69050	70140	69470	73590	75130	80450	99070	182100	273700	195900	115400	76660	119400

PRD3H

USGS # 12472710

PRIEST RAPIDS

River: COLUMBIA

Drainage Area: 95500 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 397.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
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1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60						2630							223
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
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1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 12472710

PRIEST RAPIDS

River: COLUMBIA

Drainage Area: 95500 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cubic feet per second

River Mile: 397.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-33315	-34590	-17527	
1928-29	-4954	-6806	-6440	-6556	-3423	5894	13026	66187	5077	-32833	-17706	-17410	-460
1929-30	-9866	-9076	-234	-5609	6386	1221	54989	14964	11979	-25406	-19989	-14274	260
1930-31	-9991	-5208	-6506	-532	611	5559	15658	52383	366	-23948	-18330	-13462	-287
1931-32	-6875	-1991	-2454	-5713	6092	12286	34634	53457	12555	-54865	-20050	-21654	362
1932-33	-5517	4339	-4832	-5411	-5953	1753	36481	56317	46459	-64333	-32710	-18648	536
1933-34	6270	-5054	15367	-16284	-13240	12957	83777	17225	-48911	-23749	-21399	-17900	-853
1934-35	-1961	7428	-8248	261	-4485	-584	23502	68781	1850	-29013	-37160	-17029	278
1935-36	-9387	-6161	-4306	-2746	-4850	2735	67730	52023	-38432	-29860	-17107	-14607	-254
1936-37	-9724	-7628	-2089	-4652	-676	982	18251	63560	14357	-33817	-23256	-10232	396
1937-38	1527	-5630	-7074	-4140	-5153	6018	46420	65856	-3853	-49036	-22760	-7763	1186
1938-39	-12341	-7607	-4725	-3382	-7911	6294	42711	50377	-16679	-16489	-15040	-13732	178
1939-40	-1729	-11333	-2934	-9157	-2925	10286	21356	89363	-16968	-25627	-12303	-8186	2585
1940-41	1926	-14440	-4476	-7540	-8562	1853	31234	39056	43752	33506	-8959	-6067	8523
1941-42	1751	-10187	-11360	-19695	-14457	-11322	37316	78157	21370	-10808	-13854	-13307	2877
1942-43	-10093	-5855	-8451	-13725	-9228	467	66034	24522	15937	-20264	-22961	-12405	239
1943-44	-8226	-16328	-12039	-23406	-17859	-12815	27607	78616	9116	-11222	-10858	-3930	-61
1944-45	-11207	-10157	-18640	-9903	-6782	-3652	10494	87884	6380	-27657	-14636	-11601	-736
1945-46	-5644	-1395	-4762	-9032	-10164	-2812	41052	74161	-18019	-30490	-19571	-12551	124
1946-47	-6268	-703	-2020	-12393	-8781	-4264	40908	58406	-12505	-23715	-19725	-4422	392
1947-48	6320	-10231	-8346	-14583	-17147	-11377	45348	122250	-43806	-44698	-8006	-13014	383
1948-49	-8120	-8285	-16727	-22790	-9058	5035	46054	71646	-33740	-15360	-5370	-8074	-321
1949-50	-9542	2877	-8225	-24269	-15450	3103	16077	55626	77984	-58038	-17430	-14250	619
1950-51	109	-4572	745	-20948	-8292	-22101	32346	80676	-4322	-18342	-21459	-5124	758
1951-52	2911	-11792	-17546	-35994	-24208	-32574	97347	70562	25772	-11975	-5119	-10662	3814
1952-53	-19379	-29126	-24016	-1443	-16203	-34635	4028	124836	64649	-5869	-4004	-22463	3176
1953-54	-18983	-16915	-16384	-28753	-13431	-18480	31184	112461	27951	10058	-15121	-10756	3662
1954-55	-11951	-3666	-17242	-31013	-39231	-50504	-3046	117370	120311	-26239	-21890	-15544	1528
1955-56	-661	-4360	-341	-18173	-34315	-14343	22300	115126	-1358	-13727	-11718	-12959	2335
1956-57	-13276	-24742	-16757	-47025	-29838	-2924	24553	153889	-3790	-8587	-11503	-9573	1168
1957-58	-17598	-23471	-20449	-23639	-10141	-27841	19991	165803	-4016	-13005	-2427	-6134	3269
1958-59	-7914	-2840	-8347	-11543	-36447	-42396	17605	70054	92854	-18324	-15057	-115	3192
1959-60	-7250	-14581	-17664	-33271	-24569	-654	8422	52475	86364	-11445	-13743	-4832	1559
1960-61	-11505	-14651	-21621	-23933	-9580	-21157	10327	131868	29694	-28478	1706	-11244	2709
1961-62	-6494	-23619	-19844	-34907	-28475	-16535	48308	69898	66551	-7475	-7642	-6790	2804
1962-63	-6510	-8709	-19673	-39795	-13227	-16222	8220	100709	44065	-4300	-2389	2570	3782
1963-64	-15116	-13059	-22136	-21618	-40801	-27092	19422	86028	95032	-17668	-6487	2981	3282
1964-65	-13362	-15450	-6019	-27205	-46750	-31789	50427	55093	75783	-6803	2012	-10336	2283
1965-66	-8383	-14355	-32180	-31071	-45203	-23298	52980	97433	56887	-9060	-376	-9403	3021
1966-67	-22101	-20779	-21422	-23717	-25715	-34942	-13087	139955	122499	-19151	-8855	-12076	5149
1967-68	-17395	-18956	-46308	-33013	-5334	-23741	-25707	124654	105682	18522	3398	3976	7117
1968-69	-5229	-11709	-38114	-52476	-72352	-50870	26760	158684	139384	1759	-13574	-11598	6205
1969-70	-23541	-43043	-57238	-48598	-31622	-37353	-20772	116988	178736	31580	-13579	-25619	2218
1970-71	-34104	-36686	-42400	-25667	-14554	-75105	6092	142728	127191	30541	933	-12811	5509
1971-72	-23598	-38358	-63457	-56060	-51832	-20174	-30486	152490	183881	54757	-957	-28177	6655
1972-73	-27210	-41732	-60634	-51661	-61947	-50791	-27210	139255	160008	43565	-19546	-24096	-1543
1973-74	-30935	-3303	-24841	-31057	-71647	-40556	34141	115974	317506	98069	3032	-33044	28036
1974-75	-53547	-56460	-61040	-70236	-79694	-87441	-42425	108829	258454	140593	11059	28	6003
1975-76	-19436	-26905	-13907	-61343	-89343	-87178	5155	197755	148468	102313	6024	-11378	12897
1976-77	-53410	-56994	-64196	-80598	-65403	-62439	10608	73967	125844	34975	12873	-22328	-12113
1977-78	-29929	-42804	-21269	-62478	-62911	-23940	10367	120256	220858	101768	9139	-2373	18411
1978-79	-41613	-57028	-69340	-93097	-70218	-39306	-16974	150760	153451	57923	-5807	-18414	-3808
1979-80	-44174	-75014	-54617	-77311	-60058	-34509	80677	233262	108519	32558	-12558	-7936	7562
1980-81	-20174	-33637	-32553	-82232	-59934	-38610	15130	178298	84779	63394	-4156	-14227	5113
1981-82	-34217	-34449	-55374	-78316	-40795	-105638	-53272	115301	258076	73793	873	3112	4030
1982-83	-19290	-53420	-44700	-57100	-83168	-87898	-24095	129991	180145	92876	-3706	-13921	1775
1983-84	-28618	-12438	-77394	-49143	-85658	-37347	-13055	53219	232736	99692	8512	-4518	7197
1984-85	-35314	-32814	-68604	-117404	-111366	-71823	31450	173997	169851	57020	8316	-2810	504
1985-86	-25099	-49109	-88235	-46773	-41221	-9757	-6616	115390	200879	46367	-2533	-21913	6063
1986-87	-32917	-42583	-64739	-95001	-63675	-864	42396	148453	103296	44495	-11017	-30941	63
1987-88	-67243	-55116	-75233	-90400	-74161	-45606	70764	127548	152416	58224	-685	-38191	-3141
1988-89	-32532	-48469	-89242	-87645	-79624	-21688	61685	119119	192128	76800	35940	-9627	10042
MEAN	-16240	-20445	-26621	-34802	-32393	-23615	22730	99700	77600	8067	-9127	-12279	2922

PRD3SS

USGS # 12472710

PRIEST RAPIDS

River: COLUMBIA

Drainage Area: 95500 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cubic feet per second

River Mile: 397.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										250900	120800	68120	
1928-29	52860	40200	30630	23590	21900	34050	<u>53250</u>	188300	299200	149700	99190	57880	87830
1929-30	37320	25540	27370	17660	32010	32670	131600	188000	251100	180900	110500	68650	92140
1930-31	38160	30350	<u>22950</u>	24600	27070	38690	73280	224200	233800	149200	92270	69320	85630
1931-32	39080	35130	28150	26740	35100	74220	154800	324200	368100	192200	113900	61390	121200
1932-33	45050	58950	53850	41770	29430	42470	107600	258800	476500	303100	141400	79060	136900
1933-34	77270	94330	<u>123400</u>	106600	76150	95460	<u>280300</u>	365700	285300	158600	99410	60210	152200
1934-35	47850	71110	48050	49680	57690	53870	95160	261500	353900	243400	116600	68640	122600
1935-36	42720	31830	27280	27190	<u>19420</u>	36190	146500	323500	282600	143900	91770	55640	102500
1936-37	36330	<u>24660</u>	24750	<u>17060</u>	20230	<u>27480</u>	65020	206600	284100	168700	89310	61970	85800
1937-38	48600	56410	44820	47160	35340	60620	151100	303600	359000	194200	82900	68140	121300
1938-39	47200	34390	30840	33020	24950	43670	132800	291000	227300	176500	97960	57740	100200
1939-40	50230	45330	47690	30190	37260	64000	128100	253800	231000	144700	86240	70980	99250
1940-41	61030	39760	35640	32500	30940	54010	117600	190900	<u>196300</u>	131900	83680	81590	88230
1941-42	83750	64090	87790	45250	40520	39150	119400	238700	294500	214800	111500	57930	116900
1942-43	44880	41830	39690	31390	35500	43620	218000	240300	337900	280300	119900	57180	124500
1943-44	47910	34570	31700	26700	27130	29680	64770	177900	221900	119500	88320	65060	<u>78010</u>
1944-45	50560	41520	28970	35640	37030	41080	60690	258900	316100	167900	84750	55940	98540
1945-46	41860	45990	39440	40300	34290	54450	150600	385200	365000	214900	105400	69760	129400
1946-47	47640	45050	59960	41610	51700	68190	149800	358100	325800	196200	97060	68540	126200
1947-48	97060	72380	50580	46870	42540	42730	121600	407900	546900	204500	138100	78820	154200
1948-49	58000	45870	33100	27200	39930	56940	158000	381500	260000	137400	92800	58040	112800
1949-50	42540	55630	52240	35700	46350	74880	117300	268100	489000	327300	134300	72860	143400
1950-51	68930	73470	80120	66660	<u>92510</u>	63420	180900	398400	334900	270700	120000	72290	150500
1951-52	82800	57400	50200	41840	45600	48340	185500	346800	299500	192200	102800	54000	125800
1952-53	37830	26730	27980	49390	55360	45810	88680	268100	395700	241000	117100	65750	118500
1953-54	56690	52290	46150	39400	49340	54030	97710	359500	415300	<u>369200</u>	163800	107100	151500
1954-55	63410	71650	54140	38290	38980	36200	77170	206900	446400	315900	127500	68210	129100
1955-56	68390	74150	69100	55420	39340	60090	211000	437200	446100	234500	111200	67680	156400
1956-57	58410	43890	47840	31570	42590	53090	101800	<u>459600</u>	315400	148000	84990	55330	120700
1957-58	46150	37880	36300	35900	56610	59090	115300	387400	316500	147800	90750	61450	116200
1958-59	59590	58800	58880	66980	47950	57280	141100	309900	468700	280800	119900	<u>118000</u>	149300
1959-60	<u>110900</u>	<u>94390</u>	75120	44080	50560	68260	172100	246300	365400	240300	108600	69350	137200
1960-61	55090	51850	36420	39340	80610	71510	114100	359300	491100	167700	102200	53750	135200
1961-62	55110	35840	32730	30140	45700	41640	157300	252000	337000	185100	115500	59190	112400
1962-63	58870	61430	60280	43300	71250	59720	106600	241700	314400	196600	102300	72040	115800
1963-64	46430	43040	37350	33450	31900	34130	82530	253600	483300	276700	123700	77550	127000
1964-65	75460	55490	63450	50840	54760	59740	164600	292600	391000	213100	131600	67990	135300
1965-66	56160	56230	42560	37160	36130	54330	129200	281000	330900	218600	110100	64190	118400
1966-67	44560	44690	52280	52010	50580	55020	77580	279500	555000	269000	117200	70030	139200
1967-68	55820	56870	43470	45760	69330	85260	74570	251700	377000	245100	117500	95240	126500
1968-69	72440	67090	53950	52170	47330	55910	212800	391200	373500	189700	87440	63830	139300
1969-70	58570	46010	39460	38570	45060	47860	70990	246600	360400	155400	87120	48850	103900
1970-71	41070	37850	34720	44570	80480	57980	127600	412600	425400	238200	132800	61620	141500
1971-72	47740	42640	35360	36060	53160	<u>132200</u>	127500	389400	572600	293100	151900	66390	162500
1972-73	53330	41400	41470	41360	34840	50430	71860	218300	247400	149500	82010	<u>47220</u>	90250
1973-74	47750	63250	71280	<u>111100</u>	75530	74770	179700	312900	<u>578300</u>	311200	139900	71840	<u>170000</u>
1974-75	41880	39270	36400	34860	38650	49620	78180	272300	420400	259400	110200	70010	121300
1975-76	61570	74860	95960	61070	54240	55270	141700	382900	315400	287900	<u>197000</u>	115300	154000
1976-77	52110	39910	33160	32740	32310	35460	80090	<u>169700</u>	204700	<u>106800</u>	91830	57670	78220
1977-78	36460	40070	60530	39370	40750	72350	148700	270800	350000	227700	104800	105500	125100
1978-79	59530	50070	32050	32230	40890	57080	85460	278000	256400	151200	83040	57310	98940
1979-80	37230	26530	43020	32940	39170	50920	161100	368200	279500	147000	80290	63240	110900
1980-81	51810	52890	85830	70930	72290	67750	114500	325800	324100	251700	137500	69990	135900
1981-82	53310	54830	45350	41520	86080	87680	107700	299000	462800	260500	127100	88100	142900
1982-83	61100	46630	46440	57750	63870	113900	138600	298700	324100	233800	123500	66450	131700
1983-84	44220	77340	43150	63810	54070	76400	124900	194500	379700	228500	113700	68260	122300
1984-85	46280	46640	33740	30740	34170	41390	128400	310400	278300	136700	<u>75060</u>	64360	102400
1985-86	64210	66050	40020	38330	57690	113400	141100	254300	337000	165000	96390	53530	119100
1986-87	47840	55250	39970	32410	35220	80830	139000	303600	222300	131600	75070	49650	101400
1987-88	<u>29330</u>	27570	33000	27920	29100	44880	148200	244800	263200	142900	80880	50600	93570
1988-89	53220	54790	41830	40990	31680	55730	155000	277300	307900	151500	103000	61330	111500
MEAN	54090	50520	47050	42150	46040	57980	126900	294300	350400	207800	108800	67960	121300
MEDIAN	51810	46630	42560	39340	40890	55020	127600	279500	334900	196400	107000	66420	121300

PRD3A

USGS # 12510500

YAKIMA

River: YAKIMA

Drainage Area:

5616 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

29.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1490	1260	1530	
1928-29	1660	1750	1490	1360	1360	2310	1440	3360	3020	1210	1100	1260	1779
1929-30	1160	<u>1180</u>	<u>1310</u>	<u>1330</u>	2870	2800	4110	1830	1360	1160	1110	1140	1769
1930-31	1220	1480	1420	1380	2020	1370	1480	3960	1510	1020	832	906	1548
1931-32	976	1970	1480	2400	2930	7600	5350	6570	5380	1520	1080	<u>679</u>	3161
1932-33	<u>686</u>	2980	3760	4320	2386	3276	4479	5942	10470	5114	1603	<u>2582</u>	3967
1933-34	2988	4133	<u>17330</u>	<u>14100</u>	9617	6502	8885	4503	1307	1063	1244	1404	6085
1934-35	2107	4508	3771	6367	7916	3749	2737	5826	6644	1718	1344	1675	4000
1935-36	2328	1961	1546	1879	1450	3115	5851	10330	7976	1434	1185	1416	3373
1936-37	1371	1784	1638	1335	1400	2706	3430	3055	9552	2597	1551	1861	2684
1937-38	1686	2892	3769	4886	3384	5671	7824	8927	7041	1730	1469	1490	4231
1938-39	1895	2143	2216	2491	1839	2890	2472	3178	2389	1348	1357	1475	2144
1939-40	1594	1794	2129	1702	2854	4155	3067	4712	1863	1332	1393	1593	2349
1940-41	1815	1958	2370	2002	2235	2860	2076	1273	1392	1228	1318	1622	1843
1941-42	1985	2171	3091	1920	2366	2241	2098	1925	1845	1512	1435	1568	2011
1942-43	1685	2510	3259	3411	3332	3516	8779	4829	8120	3109	1655	1487	3796
1943-44	1860	2158	2160	1536	1636	1743	1026	1389	1840	1394	1410	1552	1642
1944-45	1569	1926	1719	2432	2838	1714	1480	3153	2876	1389	1636	1590	2021
1945-46	1658	2228	2319	3098	2211	3585	4233	8775	7281	2345	1541	1973	3442
1946-47	2167	3238	7011	3507	4366	4758	4604	6828	3765	1535	1520	1848	3762
1947-48	2794	4286	5432	2938	3432	3417	3782	9150	<u>16470</u>	2550	1867	1866	4820
1948-49	2464	2584	4270	2543	2965	6615	8325	9148	7299	1785	1864	2350	4354
1949-50	<u>4252</u>	4402	4213	2413	3605	6562	6630	7841	11430	5100	1911	2118	5039
1950-51	3598	5855	9015	7031	<u>10080</u>	6908	7150	8101	6722	1839	1722	1961	5801
1951-52	2811	2739	2747	2125	3656	3309	3144	3740	3275	1912	1992	1899	2775
1952-53	1976	1843	1678	4681	5625	2714	2154	4012	5999	2313	1837	1761	3030
1953-54	2303	2162	3717	4419	5003	4819	4872	6896	6920	<u>5398</u>	2266	2509	4269
1954-55	3224	3317	2633	2225	2434	1881	1998	3249	8520	3525	1809	2062	3068
1955-56	2965	6133	9099	6860	4166	8452	<u>13190</u>	<u>13090</u>	12730	3729	2019	2235	<u>7055</u>
1956-57	2823	2965	6017	3118	2542	3856	5662	11190	3121	1418	1590	1886	3864
1957-58	2720	2088	2199	2392	4410	3919	4810	5985	2607	1225	1436	1814	2957
1958-59	2445	4701	5945	6748	6090	4633	4419	5855	5560	1415	1503	2539	4307
1959-60	4128	<u>6293</u>	8306	4988	3108	3691	4874	4969	3171	1224	1500	1939	4020
1960-61	2209	2732	2299	2909	7054	6904	5995	9439	7029	1216	1480	1624	4217
1961-62	2160	2146	2377	4405	4238	2629	4254	3028	3382	1375	1489	1702	2752
1962-63	2911	3800	5379	3779	6418	3422	4550	4148	1740	1478	1516	1686	3383
1963-64	1998	2231	2160	2341	2432	2540	1802	2171	5929	2580	1732	1826	2474
1964-65	2474	2280	4197	5309	9605	6931	5261	5131	4326	1668	1828	1988	4214
1965-66	2355	2118	1895	2054	1829	3005	3924	2815	1860	1805	1463	1804	2245
1966-67	2057	2196	3724	3255	4245	2331	1870	4199	6726	1759	1473	1557	2937
1967-68	2403	3010	3676	5323	7764	8439	1740	1791	2134	1175	1857	2166	3446
1968-69	2510	3233	3253	3367	2934	5304	7663	9088	6242	1375	1513	1881	4031
1969-70	2162	1962	2052	2999	3999	3880	2642	3571	3666	1316	1446	1873	2620
1970-71	2201	2126	2285	4746	6625	3651	6250	9144	7311	2556	1558	2433	4218
1971-72	2692	2858	2761	3940	6290	<u>16750</u>	13020	12160	12380	3185	1971	2434	6696
1972-73	2871	2595	3903	5349	2679	2234	1460	1597	1259	<u>678</u>	918	1180	2230
1973-74	1506	2938	3763	10550	5561	4438	8940	9914	12170	5386	2276	2167	5794
1974-75	2718	2314	2636	5084	6935	5065	3657	8196	6914	2891	2151	1934	4191
1975-76	2439	3406	12450	8998	5322	3710	6809	7132	3417	2960	<u>2333</u>	2154	5106
1976-77	2524	1997	1757	1704	<u>1163</u>	<u>486</u>	<u>493</u>	<u>902</u>	<u>902</u>	867	1011	1689	<u>1293</u>
1977-78	1785	2552	9973	4951	4572	6489	6439	3911	4176	2001	2105	2549	4294
1978-79	2040	2126	2190	1439	2271	3185	1676	1735	1100	823	<u>751</u>	785	1675
1979-80	1021	1820	4482	3016	3210	6504	7097	5295	2899	1731	1636	2005	3393
1980-81	2043	2830	6613	5891	6391	4237	1561	2090	1843	1488	1391	1894	3176
1981-82	2463	2351	2910	3718	8735	6732	3705	6422	6865	2884	1779	2306	4207
1982-83	2445	2549	3396	6317	5960	9744	6649	7071	5372	2384	1918	2144	4657
1983-84	2121	3504	2818	7225	5440	5437	3831	4183	7342	2210	1528	2040	3963
1984-85	2525	2588	2157	2002	2431	2637	4154	2639	2333	1211	1522	2144	2356
1985-86	2435	2764	2028	2474	4445	9334	3617	2182	1747	1475	1290	2099	2984
1986-87	2252	2634	2229	1917	2542	4873	2902	3628	1518	1352	1200	1134	2350
1987-88	1493	1462	2224	1953	2482	2118	3157	2215	1792	1172	1282	1562	1905
1988-89	1715	2389	2357	2446	2157	3166	5534	3608	1855	1320	1392	1532	2454
MEAN	2220	2748	3820	3826	4129	4484	4542	5295	5011	1984	1551	1805	3446
MEDIAN	2201	2510	2761	3098	3384	3710	4154	4503	3765	1516	1515	1854	3383

YAK3H

LOWER SNAKE RIVER

GALLOWAY

BROWNLEE

OXBOW

HELL'S CANYON

WHITE BIRD -- SALMON RIVER

LIME POINT

TROY -- GRANDE RONDE RIVER

ANATONE

DWORSIAK -- CLEARWATER RIVER

OROFINO -- CLEARWATER RIVER

SPALDING -- CLEARWATER RIVER

LOWER GRANITE

LITTLE GOOSE

LOWER MONUMENTAL

ICE HARBOR

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USGS # 13268001

GALLOWAY

River: WEISER

Drainage Area:

1480 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

13.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										154	141	134	
1928-29	104	146	160	155	180	1430	1695	1490	892	182	153	97	559
1929-30	42	81	242	125	978	950	1083	968	315	149	137	70	424
1930-31	74	101	110	139	253	1847	1252	800	<u>178</u>	153	137	57	427
1931-32	<u>37</u>	80	125	135	225	3481	3731	3626	1425	213	163	83	1113
1932-33	78	158	118	144	207	1529	3193	2503	1979	235	159	95	867
1933-34	75	135	665	1229	744	978	1386	575	243	148	153	95	535
1934-35	53	203	317	492	406	1344	2431	1905	649	155	149	93	683
1935-36	50	102	<u>96</u>	157	268	2121	3918	2692	782	169	161	93	884
1936-37	58	<u>80</u>	99	<u>103</u>	<u>155</u>	1520	1879	1532	566	180	164	110	539
1937-38	87	406	1519	852	2174	4328	3726	3638	2068	415	171	145	1623
1938-39	193	256	257	229	206	2795	1892	1264	313	167	155	107	657
1939-40	91	94	198	534	2674	3838	4101	1967	642	186	175	146	1212
1940-41	267	661	923	955	2093	2244	2013	1975	1320	319	215	181	1090
1941-42	213	258	1419	882	1675	1854	3323	2326	1554	270	233	201	1178
1942-43	145	328	972	2323	1257	3182	4836	2458	2123	527	197	184	1543
1943-44	201	276	200	164	427	1057	1628	1207	921	243	218	184	559
1944-45	101	289	166	446	2130	1727	1471	3195	2129	303	236	220	1025
1945-46	159	376	1058	684	482	4431	3620	2865	900	275	238	207	1281
1946-47	185	990	1595	375	1572	1468	1412	2102	1136	257	211	202	954
1947-48	227	283	297	810	868	1025	2751	3791	2075	297	222	222	1071
1948-49	190	208	212	179	882	3505	2377	2609	790	222	202	158	963
1949-50	150	192	159	271	1030	2979	2596	2357	1798	413	225	207	1030
1950-51	233	288	491	496	1798	1758	2853	2362	896	262	238	160	979
1951-52	412	627	1534	915	1838	2380	<u>7764</u>	<u>4621</u>	1860	464	242	298	1905
1952-53	297	164	215	2503	1635	1156	2169	2626	<u>3174</u>	557	247	188	1239
1953-54	140	202	319	987	1532	1313	2318	2321	1050	304	234	155	901
1954-55	158	181	151	157	159	592	2056	2393	1563	401	241	184	687
1955-56	136	299	<u>2920</u>	2050	1269	2037	2762	2800	1325	337	256	190	1368
1956-57	358	359	494	225	1836	4065	2941	4318	1577	304	282	188	1410
1957-58	167	167	410	392	3709	2114	3183	4277	1860	329	277	210	1406
1958-59	135	204	237	843	1190	848	1621	1594	1006	304	306	292	710
1959-60	324	214	178	180	584	3262	2317	2057	1248	300	271	201	929
1960-61	138	654	320	271	2280	1928	1565	1719	978	281	240	127	864
1961-62	108	228	424	329	1635	1391	2460	1885	1171	305	284	213	862
1962-63	<u>631</u>	716	1347	385	2051	683	2225	2030	1028	288	259	197	977
1963-64	123	322	248	371	603	1347	4373	2656	2563	505	295	253	1133
1964-65	186	201	2686	2367	1825	1294	3535	2980	1790	383	313	234	1481
1965-66	159	224	244	487	283	1343	1523	1206	461	250	215	50	539
1966-67	67	173	649	1358	1022	1170	1111	2791	2144	393	257	191	944
1967-68	203	179	183	278	2641	1293	920	1401	875	320	254	121	714
1968-69	167	402	381	1848	1030	2268	4303	2865	1144	329	257	208	1266
1969-70	167	133	426	<u>4126</u>	1794	1392	973	2887	2550	530	270	272	1293
1970-71	215	674	1403	2464	1483	2839	3587	4063	2508	709	297	272	1711
1971-72	239	251	648	1547	1756	4008	1601	2784	2279	356	272	298	1337
1972-73	215	204	686	1080	697	1816	1171	1718	702	287	254	190	754
1973-74	135	<u>1446</u>	1983	3172	1573	3614	3715	3038	3063	581	290	240	1905
1974-75	214	203	184	222	722	2975	2201	3515	2686	687	354	255	1187
1975-76	315	341	720	411	740	2063	3388	2833	1041	356	292	238	1061
1976-77	173	137	128	149	166	<u>136</u>	<u>174</u>	<u>182</u>	183	<u>104</u>	<u>62</u>	<u>46</u>	<u>136</u>
1977-78	120	149	1226	1371	2027	2304	3125	2599	1665	457	238	195	1284
1978-79	128	134	153	153	698	2374	1509	2036	730	282	219	146	715
1979-80	155	142	326	1117	2432	1600	2364	2441	1612	340	231	236	1075
1980-81	159	212	1415	945	2613	1397	1690	1667	1034	312	264	172	979
1981-82	155	589	1522	745	<u>5403</u>	3552	3254	3369	2270	<u>866</u>	369	277	1838
1982-83	276	414	1845	1514	3518	<u>5432</u>	3075	3393	2405	741	410	240	<u>1930</u>
1983-84	333	650	931	573	916	5095	3146	3150	2553	649	<u>466</u>	<u>406</u>	1575
1984-85	333	387	395	352	364	1520	2867	1653	772	328	347	320	804
1985-86	293	340	309	313	4948	4032	2056	1964	1330	428	368	387	1372
1986-87	200	217	204	194	739	1770	993	710	242	161	137	78	469
1987-88	71	135	185	197	606	803	1059	785	492	177	104	62	388
1988-89	43	248	246	256	328	4839	2818	1819	993	305	300	183	1037
MEAN	178	303	644	799	1366	2220	2509	2350	1371	337	238	185	1039
MEDIAN	159	217	320	446	1030	1847	2364	2362	1171	304	238	189	1025

GAL3H

USGS # 13268001

GALLOWAY

River: WEISER

Drainage Area:

1460 Sq. Mi.

Regulated Flows - 1989 Conditions - Computed by IDWR

River Mile:

13.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										278	242	200	
1928-29	104	146	159	155	180	1351	1618	1480	892	293	254	109	564
1929-30	42	81	242	124	978	950	1081	973	301	270	236	37	439
1930-31	68	101	109	138	254	1849	1245	789	250	263	80	35	433
1931-32	<u>39</u>	<u>77</u>	125	135	224	3345	3632	3648	1452	299	268	200	1123
1932-33	102	158	117	143	<u>148</u>	1249	3106	2474	1993	299	254	198	854
1933-34	70	138	665	1229	745	976	1383	581	250	200	65	35	527
1934-35	46	203	317	493	405	1343	2430	1914	650	252	174	<u>35</u>	689
1935-36	42	103	<u>96</u>	158	269	1872	3795	2690	766	285	252	173	875
1936-37	55	79	99	<u>104</u>	155	1521	1879	1538	563	270	76	44	534
1937-38	85	407	1519	851	1973	4251	3743	3635	2064	415	268	217	1616
1938-39	185	255	257	229	205	2641	1872	1272	393	272	262	123	668
1939-40	91	94	198	533	2573	3729	4011	1927	605	293	270	207	1203
1940-41	267	660	924	955	1844	2225	2007	1978	1360	348	309	250	1088
1941-42	207	257	1418	799	1394	1947	3317	2348	1568	306	275	222	1168
1942-43	132	329	972	2163	1260	3236	4808	2449	2124	558	278	250	1545
1943-44	171	276	200	164	428	1028	1494	1212	956	299	237	200	554
1944-45	99	289	164	444	1946	1781	1437	3215	2096	350	270	250	1021
1945-46	146	376	1047	660	373	4431	3628	2864	901	304	270	222	1276
1946-47	177	981	1595	369	1464	1556	1423	2101	1165	299	260	208	963
1947-48	216	282	298	810	869	1025	2674	3745	2072	350	278	207	1067
1948-49	146	207	211	179	805	3352	2410	2609	778	276	237	200	953
1949-50	148	192	158	272	1030	2934	2596	2345	1810	355	275	250	1028
1950-51	221	284	491	496	1694	1802	2849	2373	923	299	262	200	985
1951-52	379	625	1534	725	1314	2620	<u>8058</u>	<u>4635</u>	1892	444	275	250	1890
1952-53	122	158	215	2627	1649	1208	2161	2625	<u>3139</u>	555	272	250	1243
1953-54	125	202	319	987	1532	1308	2274	2316	1052	299	270	200	902
1954-55	156	181	151	156	158	592	2030	2290	1568	350	267	250	680
1955-56	137	299	<u>2786</u>	2069	1222	2134	2776	2799	1360	312	272	200	1367
1956-57	361	360	494	226	1973	3895	2902	4302	1602	299	270	200	1404
1957-58	159	166	410	392	3709	2148	3173	4277	1902	324	286	200	1411
1958-59	128	203	237	842	1190	846	1607	1597	1007	296	270	250	701
1959-60	324	213	179	181	564	3284	2311	2062	1267	294	267	203	932
1960-61	111	654	320	272	2280	1927	1563	1726	966	281	255	161	865
1961-62	107	229	424	330	1635	1391	2455	1883	1176	280	259	200	856
1962-63	<u>626</u>	716	1347	385	2024	683	2237	2033	1042	299	257	200	978
1963-64	117	321	247	345	396	1319	4553	2654	2563	475	312	313	1130
1964-65	171	202	2576	2360	1653	1335	3625	2986	1800	350	333	250	1469
1965-66	140	225	244	486	283	1343	1519	1212	454	276	237	91	544
1966-67	67	173	649	1358	1023	1169	1111	2799	2149	327	260	200	940
1967-68	197	180	184	276	2594	1260	916	1408	877	285	275	200	713
1968-69	163	395	372	1748	823	2506	4250	2861	1153	312	270	203	1256
1969-70	168	133	329	<u>4376</u>	1808	1496	963	2887	2554	509	267	291	1315
1970-71	211	665	1404	2304	1483	3053	3588	4058	2524	759	311	260	1720
1971-72	237	245	477	1529	1850	4054	1591	2786	2286	350	285	250	1328
1972-73	194	197	686	1047	619	1929	1228	1716	689	285	257	200	757
1973-74	135	<u>1447</u>	1982	3176	1572	3614	3711	3040	2943	678	350	250	1909
1974-75	163	203	184	221	727	2975	2201	3514	2685	686	355	250	1182
1975-76	316	341	720	411	746	2062	3388	2833	1012	299	293	234	1054
1976-77	174	136	127	150	166	<u>137</u>	<u>173</u>	<u>190</u>	<u>180</u>	<u>98</u>	<u>65</u>	45	<u>137</u>
1977-78	120	150	1226	1371	1995	2304	3126	2599	1598	439	260	250	1281
1978-79	128	134	153	153	699	2376	1509	2036	662	299	267	200	719
1979-80	135	143	325	1117	2441	1600	2359	2443	1639	350	250	250	1080
1980-81	148	212	1415	934	2569	1379	1709	1654	1059	299	257	200	975
1981-82	137	588	1522	691	<u>5463</u>	3516	3254	3368	2237	<u>867</u>	369	277	1831
1982-83	276	413	1852	1560	3518	<u>5432</u>	3075	3393	2405	740	410	250	<u>1935</u>
1983-84	333	650	932	572	916	5095	3146	3150	2553	649	<u>465</u>	<u>405</u>	1574
1984-85	333	387	395	351	364	1521	2867	1654	771	329	348	319	804
1985-86	293	339	309	312	4948	4032	2057	1965	1331	428	368	387	1372
1986-87	200	217	203	197	738	1769	993	711	242	161	137	79	469
1987-88	72	134	185	197	607	803	1059	786	492	177	104	62	388
1988-89	42	249	246	257	328	4838	2818	1820	993	304	301	183	1037
MEAN	168	303	635	792	1325	2219	2504	2348	1373	358	263	202	1038
MEDIAN	146	217	320	444	1030	1872	2359	2348	1176	299	268	202	1021

GAL3A

USGS # 13289710 **BROWNLEE**
Monthly mean historical streamflow in cfs.

River: SNAKE

Drainage Area: 72590 Sq. Mi.
River Mile: 285

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										10450	8095	9592	
1928-29	15840	15740	14140	14000	12880	23210	27180	20580	19060	8675	7649	9334	15690
1929-30	11420	17090	16810	15040	18210	14150	14760	16940	13470	7685	8099	9132	13530
1930-31	11470	13610	14600	12500	11740	14140	14010	12320	8280	<u>6579</u>	6861	7927	11170
1931-32	9522	11290	11420	11260	11880	24750	28410	34470	26550	10100	8216	9655	16460
1932-33	11180	12540	12610	11960	11690	15380	19890	21510	29750	9578	8489	9850	14520
1933-34	11360	12320	12560	14620	13030	13230	15380	11870	8755	7439	7424	8013	11320
1934-35	<u>9243</u>	<u>10400</u>	10570	10750	<u>10510</u>	11550	17870	18150	17440	8114	7864	8744	11760
1935-36	9454	10710	<u>9999</u>	11360	12600	15330	35640	35730	26670	8440	8593	10020	16180
1936-37	10620	11110	10860	<u>10220</u>	12000	14300	21800	19410	13840	8280	8414	9445	12510
1937-38	10800	12140	15450	12960	14590	25240	43460	46000	37410	19580	9220	10180	21430
1938-39	12870	13300	13110	13080	14350	25850	26390	19180	11080	8912	8627	10150	14740
1939-40	11190	11510	11720	12460	16190	22340	30960	22890	14290	8438	8445	11400	15130
1940-41	12860	13960	13310	13350	16100	19650	19240	20840	21760	10030	10110	11510	15200
1941-42	13200	14610	16770	14300	17360	17070	36910	28230	27410	11410	9712	11560	18170
1942-43	13110	15460	17190	23690	26310	34580	63730	37390	47390	<u>26010</u>	11200	12170	27280
1943-44	17000	17880	15840	14610	12900	15510	20720	17240	24130	10060	9701	10970	15530
1944-45	12190	13580	12210	14150	18380	16950	20380	31950	32620	12010	10130	11810	17160
1945-46	13940	17880	19680	20240	18390	30530	48530	36450	25040	11300	10040	12440	22030
1946-47	15530	17630	20370	15950	19370	17980	19910	28810	30660	10610	10160	12050	18220
1947-48	14660	14880	15880	17050	16040	14570	23490	32170	37790	12430	10480	12380	18460
1948-49	13560	13480	15590	16370	20880	29680	25430	26650	19530	10330	10470	12110	17820
1949-50	14610	14140	13240	14270	17770	22810	32110	27570	31980	20860	11530	13140	19480
1950-51	16910	17430	17970	20040	29200	29600	38060	39690	26390	13650	12350	12770	22780
1951-52	18730	18320	20600	20710	24640	32960	<u>71880</u>	54860	32740	16960	11950	13860	28140
1952-53	14640	12880	13150	19800	19620	20500	22050	23380	44150	15260	11540	13340	19150
1953-54	14490	14270	14700	15590	17370	18830	24510	24220	21330	12730	11290	12860	16830
1954-55	15610	14910	13850	13770	12240	14050	18860	17400	16230	11280	10340	12120	14220
1955-56	13920	13690	20290	21120	21220	30630	37920	39270	40860	12290	12160	13610	23050
1956-57	17050	15920	15730	14380	20960	33130	35750	50770	29140	11580	11700	13950	22510
1957-58	16050	14190	14850	14880	25180	24140	36530	33430	26440	8036	8444	14250	19620
1958-59	12590	13240	12290	13980	16480	16080	15360	8880	13600	10470	10810	15750	13260
1959-60	16930	13580	14180	16220	16720	17100	16280	17970	17330	9216	11950	13020	15030
1960-61	13290	14440	15690	17640	16840	15430	10880	<u>5942</u>	10140	6643	8339	10900	12150
1961-62	12160	11920	13330	15980	18150	16520	20280	18620	13660	8909	11310	12820	14440
1962-63	16420	15200	15690	18190	17370	12980	12460	20680	33880	10520	10620	13830	16450
1963-64	13490	13760	17380	19290	16550	15770	18480	23510	29140	11510	11250	13760	16970
1964-65	14490	15870	26590	28210	<u>55100</u>	40720	38890	37110	21520	16240	15080	15660	26940
1965-66	20640	17510	19750	24650	19790	15990	11310	6757	10880	9092	9865	11760	14810
1966-67	13380	13820	14540	17560	17940	14890	12640	13780	19510	12320	9867	12770	14390
1967-68	14780	16450	17450	19440	20710	12910	14300	6928	12180	9269	13250	12110	14120
1968-69	14380	16300	19860	25060	30890	34870	39880	23710	17010	10670	10760	13760	21350
1969-70	14880	14450	15220	23090	27880	18070	19460	26130	29820	15690	11040	15260	19170
1970-71	16250	18540	22790	31540	40630	37560	58140	46710	34460	21000	11060	15020	29360
1971-72	<u>23950</u>	25400	25230	30420	38210	60250	47680	30680	22900	12260	12080	14710	28610
1972-73	21000	22240	23000	25100	23500	19240	16130	11800	12360	8263	9682	13170	17080
1973-74	13590	17680	18660	25250	28630	40380	55570	37900	28560	19470	11410	13610	25840
1974-75	17260	17400	18880	22100	28080	32080	46070	48400	26100	13930	11150	15220	24530
1975-76	16250	18630	22620	25200	30230	31180	45740	34870	24990	10150	13910	16140	24100
1976-77	17100	16920	18340	17680	12030	13550	8345	6197	<u>7633</u>	6856	<u>6621</u>	<u>6829</u>	11520
1977-78	11260	11070	15910	19000	18420	22090	27180	27450	16820	13640	10990	15630	17440
1978-79	13120	15870	19730	20470	20230	23970	22400	12750	13770	12160	8392	10580	16090
1979-80	11960	14170	11830	16230	15250	15880	19140	27390	33600	14400	10510	14220	17020
1980-81	13340	15870	16820	17390	18710	16210	14160	19720	26020	9361	9271	12860	15770
1981-82	14190	14890	19320	20180	29890	46940	50030	42540	31040	23760	12630	18180	26930
1982-83	20770	23000	29450	33690	35660	55070	45150	53160	44930	24380	<u>16880</u>	17350	33280
1983-84	19850	26640	<u>29830</u>	<u>37870</u>	31780	40970	60220	<u>66610</u>	<u>56600</u>	22170	15810	<u>18920</u>	<u>35570</u>
1984-85	23750	<u>28270</u>	26170	26730	24820	25620	33650	16710	18720	11110	10070	16290	21780
1985-86	16440	15400	16670	20310	36600	<u>63880</u>	49560	36250	37380	12710	11970	17940	27830
1986-87	22660	21080	22670	21500	16930	11960	9348	11690	8387	9689	10110	11970	14840
1987-88	11110	13430	13830	13970	11180	<u>10960</u>	<u>6513</u>	10700	7762	7246	8127	8410	<u>10280</u>
1988-89	9910	12550	11930	15370	15780	22870	29050	13950	9867	10500	11680	13290	14710
MEAN	14660	15610	16900	18590	20700	24010	28950	26470	23820	12140	10420	12610	18720
MEDIAN	14190	14880	15840	17390	18210	19650	24510	23710	24130	10640	10400	12770	17020

BRN3H

USGS # 13289710

BROWNLEE

River: SNAKE

Drainage Area: 72590 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 285

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	26	6500	3366	3677	-204	1118
1958-59	1633	572	1163	0	-2041	-1946	237	7543	2597	-163	344	-706	794
1959-60	-1133	-349	-1184	-4455	-1684	2988	4961	952	-241	901	-464	-471	-17
1960-61	222	-577	-3018	-5462	-1264	-1681	2056	7229	1485	1669	256	-208	65
1961-62	-18	-12	-1841	-5159	-1394	128	1676	2955	3267	578	-286	-82	-1
1962-63	124	-68	-249	-5449	2559	-501	4043	-18	89	-23	-95	-726	-57
1963-64	-38	394	-3853	-6176	-3033	-842	5970	2507	6282	-100	-98	-180	53
1964-65	156	96	-1104	-555	-10665	-3998	1121	4463	10002	-136	-866	-1103	-160
1965-66	-4957	-677	199	-3875	-314	2032	3318	5989	252	245	66	52	192
1966-67	-141	-302	-906	-3107	-4578	-1901	-155	4487	5933	151	200	-139	-16
1967-68	171	-876	-1299	-3752	100	2047	-3247	5095	1855	-162	-256	241	-2
1968-69	-102	0	-3095	-323	-4765	-4140	2219	6619	3367	0	0	-169	-9
1969-70	32	-993	-1575	1510	-7947	-104	-1004	6612	2792	98	128	-333	-3
1970-71	129	-706	-2233	1630	-7142	-4482	-2953	7985	7261	163	130	-874	-42
1971-72	-16	-390	-535	-261	-4977	-4784	-4041	2604	12874	113	-373	336	50
1972-73	-375	-1212	-1596	-2484	-2935	1863	4155	2540	-1095	978	82	-33	10
1973-74	80	-671	-65	-2880	-4155	853	-4894	1353	10041	-16	-113	-168	-32
1974-75	-1059	-439	50	-2186	-4334	-1427	-1780	2368	8508	145	374	-1833	-113
1975-76	1805	-134	-357	-2179	-5880	-702	355	7192	1211	16	-323	0	113
1976-77	16	-776	-1317	-2658	1934	-967	-383	2835	84	-588	570	1682	19
1977-78	-896	-51	-1558	-4154	-1716	-1096	4110	2297	2944	-358	-343	-116	-84
1978-79	554	-220	-3828	-2462	566	2063	299	3884	-2694	-3677	3256	1666	-52
1979-80	634	-2737	-1044	-1760	746	-153	2914	3197	-157	-1880	-103	1230	68
1980-81	283	-1132	426	-1855	-965	-1208	5587	-230	-264	-683	-380	-157	-52
1981-82	513	-531	-1848	-5120	8033	-8887	825	6294	3232	-102	-172	-1241	12
1982-83	-100	1201	-21	-1983	-1556	-4823	2411	2892	3434	-107	-1926	-1344	-166
1983-84	3061	-104	-320	-2373	-4784	1490	2502	-39	3533	-338	-737	-822	103
1984-85	1332	-555	-3082	-2292	-1776	-1826	3061	6986	-2908	-1309	1575	464	-14
1985-86	-364	118	-792	-1460	4269	-5568	501	5852	93	-180	-9	-617	121
1986-87	322	-250	-524	-2638	-2243	3327	2056	-525	1010	-431	-742	-530	-87
1987-88	1663	-1444	-2222	-2710	542	171	4728	-178	1577	-378	-645	788	142
1988-89	151	-422	-820	-4489	-3376	3470	-1632	3783	3121	-1522	-830	-1157	-288
MEAN	119	-427	-1234	-2704	-2089	-987	1259	3611	2999	-117	59	-211	52

BRN3S

USGS # 13289710

BROWNLEE

River: SNAKE

Drainage Area: 72590 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 285

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										10450	8095	9592	
1928-29	15840	15740	14140	14000	12880	23210	27180	20580	19060	8675	7649	9334	15690
1929-30	11420	17090	16810	15040	18210	14150	14760	16940	13470	7685	8099	9132	13530
1930-31	11470	13610	14600	12500	11740	14140	14010	12320	8280	6579	<u>6861</u>	<u>7927</u>	11170
1931-32	9522	11290	11420	11260	11880	24750	28410	34470	26550	10100	8216	9655	16460
1932-33	11180	12540	12610	11960	11690	15380	19890	21510	29750	9578	8489	9850	14520
1933-34	11360	12320	12560	14620	13030	13230	15380	11870	8755	7439	7424	8013	11320
1934-35	<u>9243</u>	<u>10400</u>	10570	10750	<u>10510</u>	11550	17870	18150	17440	8114	7864	8744	11760
1935-36	9454	10710	<u>9999</u>	11360	12600	15330	35640	35730	26670	8440	8593	10020	16180
1936-37	10620	11110	10860	<u>10220</u>	12000	14300	21800	19410	13840	8280	8414	9445	12510
1937-38	10800	12140	15450	12960	14590	25240	43480	46000	37410	19580	9220	10180	21430
1938-39	12870	13300	13110	13080	14350	25850	26390	19180	11080	8912	8627	10150	14740
1939-40	11190	11510	11720	12460	16190	22340	30960	22890	14290	8438	8445	11400	15130
1940-41	12860	13960	13310	13350	16100	19650	19240	20840	21760	10030	10110	11510	15200
1941-42	13200	14610	16770	14300	17360	17070	36910	28230	27410	11410	9712	11560	18170
1942-43	13110	15460	17190	23690	26310	34580	63730	37390	47390	<u>26010</u>	11200	12170	27280
1943-44	17000	17880	15840	14610	12900	15510	20720	17240	24130	10060	9701	10970	15530
1944-45	12190	13580	12210	14150	18380	16950	20380	31950	32620	12010	10130	11810	17160
1945-46	13940	17880	19680	20240	18390	30530	48530	36450	25040	11300	10040	12440	22030
1946-47	15530	17630	20370	15950	19370	17980	19910	28810	30660	10610	10160	12050	18220
1947-48	14660	14880	15880	17050	16040	14570	23490	32170	37790	12430	10480	12380	18460
1948-49	13560	13480	15590	16370	20880	29680	25430	26650	19530	10330	10470	12110	17820
1949-50	14610	14140	13240	14270	17770	22810	32110	27570	31980	20860	11530	13140	19480
1950-51	16910	17430	17970	20040	29200	29600	38060	39690	26390	13650	12350	12770	22780
1951-52	18730	18320	20600	20710	24640	32960	<u>71880</u>	54860	32740	16960	11950	13860	28140
1952-53	14640	12880	13150	19800	19620	20500	22050	23380	44150	15260	11540	13340	19150
1953-54	14490	14270	14700	15590	17370	18830	24510	24220	21330	12730	11290	12860	16830
1954-55	15610	14910	13850	13770	12240	14050	18860	17400	16230	11280	10340	12120	14220
1955-56	13920	13690	20290	21120	21220	30630	37920	39270	40860	12290	12160	13610	23050
1956-57	17050	15920	15730	14380	20960	33130	35750	50770	29140	11580	11700	13950	22510
1957-58	16050	14190	14850	14880	25180	24140	36530	33450	32940	11400	12120	14040	20740
1958-59	14220	13820	13450	13980	14440	14140	15600	16420	16190	10310	11150	15050	14050
1959-60	15800	13230	12990	11770	15030	20090	21240	18920	17090	10120	11490	12550	15020
1960-61	13510	13870	12670	12170	15580	13770	12940	13170	11620	8312	8595	10690	12210
1961-62	12140	11910	11690	10830	16760	16650	21960	21570	16920	9487	11020	12730	14440
1962-63	16540	15130	15440	12740	19930	12480	16500	20670	33970	10500	10530	13110	16400
1963-64	13450	14150	13530	13110	13510	14920	24450	26020	35430	11410	11150	13580	17030
1964-65	14650	15960	25490	27650	<u>44440</u>	36720	40010	41570	31520	16100	14220	14560	26780
1965-66	15680	16840	19950	20770	19480	18030	14630	12750	11130	9337	9931	11820	15010
1966-67	13240	13520	13640	14460	13360	12990	12490	18270	25440	12470	10070	12630	14370
1967-68	14950	15580	16150	15690	20810	14960	11050	12020	14040	9108	13000	12350	14110
1968-69	14280	16300	16760	24740	26130	30730	42100	30320	20370	10670	10760	13590	21340
1969-70	14910	13460	13640	24600	19940	17960	18450	32740	32610	15790	11170	14930	19170
1970-71	16380	17830	20560	33170	33490	33080	55180	54700	41720	21160	11190	14150	29320
1971-72	23930	25010	24690	30160	33230	55470	43640	33280	35780	12370	11710	15050	28660
1972-73	20620	21030	21400	22620	20570	21100	20290	14340	11260	9241	9764	13140	17090
1973-74	13670	17010	18600	22370	24470	41230	50680	39250	38600	19450	11300	13440	25810
1974-75	16200	16960	18930	19920	21740	30660	44290	50770	34610	14070	11530	13390	24410
1975-76	18060	18500	22260	23020	24350	30480	46090	42060	26200	10170	13580	16140	24210
1976-77	17110	16140	17020	15020	13970	12580	<u>7963</u>	<u>9033</u>	<u>7717</u>	<u>6268</u>	7191	8511	11540
1977-78	10360	11020	14360	14850	16700	20990	31290	29750	19760	13280	10640	15510	17360
1978-79	13670	15650	15900	18010	20800	26030	22700	16630	11070	8479	11650	12250	16040
1979-80	12590	11430	10780	14470	16000	15720	22050	30590	33450	12520	10410	15450	17090
1980-81	13630	14740	17240	15530	17750	15000	19750	19490	25760	8678	8891	12700	15720
1981-82	14700	14360	17470	15060	37930	38060	50860	48840	34270	23660	12460	16940	26940
1982-83	20670	24200	29430	31700	34100	50250	47560	56060	48360	24270	14960	16010	33110
1983-84	22910	26540	<u>29510</u>	<u>35500</u>	26990	42460	62720	<u>66570</u>	<u>60130</u>	21840	<u>15070</u>	<u>18100</u>	<u>35680</u>
1984-85	<u>25080</u>	<u>27720</u>	23080	24440	23040	23800	36710	23700	15820	9798	11650	16750	21760
1985-86	16080	15520	15870	18850	40870	<u>58310</u>	50060	42100	37470	12530	11960	17320	27950
1986-87	22980	20830	22150	18860	14690	15290	11400	11160	9397	9257	9372	11440	14750
1987-88	12770	11980	11610	11260	11720	<u>11130</u>	11240	10520	9339	6868	7482	9198	<u>10420</u>
1988-89	10060	12130	11110	10890	12400	26340	27420	17730	12990	8976	10850	12140	14420
MEAN	14720	15400	16270	17260	19640	23510	29590	28370	25390	12080	10450	12510	18740
MEDIAN	14280	14610	15590	15020	17770	20500	24510	26020	25760	10560	10500	12500	17090

BRN3A

USGS # 13290440

HELLS CANYON

River: SNAKE

Drainage Area: 73300 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 247.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										10630	8134	9637	
1928-29	15860	15790	14230	14170	13070	23640	27700	21290	19830	8796	7686	9370	15950
1929-30	11450	17170	17030	15150	18590	14580	15370	17300	13930	7769	8126	9165	13760
1930-31	11550	13670	14710	12690	11870	14380	14440	12790	8542	<u>6628</u>	6881	7960	11340
1931-32	9562	11370	11520	11460	12070	25190	29200	35700	27310	10250	8262	9698	16800
1932-33	11250	12600	12730	12190	11850	15650	20480	22260	31120	9780	8537	9889	14850
1933-34	11410	12420	12810	15110	13480	13850	16000	12260	9021	7499	7448	8044	11600
1934-35	<u>9289</u>	<u>10500</u>	10720	10960	<u>10740</u>	11780	18450	18840	18060	8226	7896	8777	12010
1935-36	9497	10780	<u>10100</u>	11510	12770	15590	36380	36370	27030	8498	8615	10050	16400
1936-37	10660	11180	10970	<u>10340</u>	12130	14550	22160	20070	14350	8379	8452	9478	12710
1937-38	10850	12240	15800	13280	14930	25980	44660	47440	38690	19840	9281	10220	21940
1938-39	12940	13410	13300	13290	14540	26500	27000	19720	11390	8989	8652	10180	14990
1939-40	11230	11570	11860	12720	16530	23080	31830	23520	14790	8517	8472	11440	15440
1940-41	12960	14190	13570	13690	16420	20350	19940	21590	22680	10230	10160	11580	15590
1941-42	13270	14780	17690	14970	17930	17500	38140	29200	28260	11660	9764	11610	18690
1942-43	13170	15590	17400	24050	26790	35110	64920	38120	48260	<u>26390</u>	11280	12230	27700
1943-44	17070	17990	16000	14820	13110	15720	21230	17720	24710	10180	9738	11010	15760
1944-45	12230	13680	12350	14420	18660	17310	20930	32870	33570	12180	10180	11860	17480
1945-46	14000	17990	19900	20560	18650	31030	49500	37450	25780	11490	10090	12500	22400
1946-47	15610	17850	20930	16300	19910	18590	20540	29580	31220	10720	10200	12090	18600
1947-48	14760	15050	16160	18490	16360	14900	24440	33720	39200	12650	10540	12430	19030
1948-49	13630	13600	15740	16550	21150	30220	26230	27570	20090	10430	10500	12150	18130
1949-50	14670	14240	13400	14500	18070	23230	32660	28290	32910	21130	11590	13190	19800
1950-51	17010	17630	18320	20370	29690	29990	38930	40530	26980	13810	12390	12810	23140
1951-52	18800	18430	20900	20990	24930	33270	<u>73050</u>	56200	33800	17260	12010	13910	28580
1952-53	14690	12980	13320	20200	19970	20930	22770	24230	45280	15620	11610	13390	19530
1953-54	14550	14370	14880	15880	17800	19300	24820	24970	21950	12920	11340	12910	17120
1954-55	15670	15010	13980	13970	12410	14230	19250	18230	17060	11450	10380	12170	14490
1955-56	13990	13840	20970	21760	21590	31460	39260	40590	41940	12510	12220	13670	23620
1956-57	17130	16060	15980	14640	21500	33740	36370	52240	29980	11720	11750	14000	22920
1957-58	16130	14290	15060	15140	26300	25260	38050	36510	29110	8442	8558	14380	20520
1958-59	12730	13550	12850	15040	17300	17050	16980	10690	15590	10800	10910	15930	14080
1959-60	17260	13920	14590	16690	17180	18530	17790	19580	18650	9380	12030	13110	15720
1960-61	13400	14670	16040	18020	17950	16610	11940	7601	11800	6781	8401	10980	12810
1961-62	12280	12100	13680	16580	18960	17440	22210	20250	15380	9280	11410	12910	15170
1962-63	16990	15780	17120	18800	19070	14180	13920	22590	35480	10830	10720	13940	17410
1963-64	13610	13990	17650	19650	16900	16390	19680	25380	31440	11940	11360	13870	17640
1964-65	14600	16050	27410	29330	<u>56790</u>	41950	41180	39350	23870	16880	15400	15900	28030
1965-66	21210	17870	19950	24970	20130	17120	12580	7943	11600	9241	9880	11860	15350
1966-67	13480	14010	15290	18370	18730	15570	13480	15520	22080	13130	10180	13180	15220
1967-68	13590	15500	17990	20240	22290	13760	15120	8077	13490	9837	14140	12570	14680
1968-69	14950	16710	19930	26830	32720	37450	43020	26840	19560	11470	11610	14020	22840
1969-70	15610	14900	16390	25270	30290	19930	21110	28700	32680	16390	10930	15590	20560
1970-71	16870	19700	24980	34680	44680	41920	61440	50410	39100	22590	11170	15450	31790
1971-72	<u>24140</u>	25650	25610	31250	38940	62720	48740	32920	25490	12610	12170	14820	29550
1972-73	21120	22450	23650	25730	24010	20330	17090	13620	13230	8379	9746	13250	17680
1973-74	13720	18750	20010	27340	29530	42120	57750	40330	32750	20630	11610	13740	27300
1974-75	17400	17590	19080	22350	26580	33410	47350	50560	28600	14840	11320	15340	25340
1975-76	16460	18900	23140	25640	30840	32170	47870	37090	26070	10410	14090	16290	24860
1976-77	17230	17060	18470	17800	12180	13700	8486	<u>6401</u>	<u>7779</u>	6901	<u>6651</u>	<u>6887</u>	11640
1977-78	11340	11290	17060	19860	19380	23690	29330	29300	18690	14460	11150	15890	18440
1978-79	13270	16020	19850	20580	20760	25580	23650	14810	14970	12320	8464	10650	16720
1979-80	12100	14370	12100	16760	16220	16650	20630	29450	35110	14870	10590	14380	17740
1980-81	13490	16100	17700	18080	20080	17060	15280	21180	27460	9555	9340	12930	16480
1981-82	14360	15330	20250	20610	31960	48680	51780	44960	33450	24580	12780	18340	28040
1982-83	21060	23320	30090	34390	37010	57540	46990	55900	47450	25550	<u>17090</u>	17530	34480
1983-84	20040	27080	<u>30410</u>	<u>38230</u>	32050	43070	61960	<u>68840</u>	<u>59080</u>	23160	18000	<u>19120</u>	<u>36560</u>
1984-85	23960	<u>28630</u>	26520	27050	25110	26560	35620	18380	19850	11220	10170	16460	22410
1985-86	16650	15710	16940	20610	38860	<u>66340</u>	51020	37900	38760	12900	12050	18090	28710
1986-87	22830	21290	22880	21680	17460	13350	10250	12690	8611	9759	10170	12020	15250
1987-88	11160	13530	14030	14130	11570	<u>11640</u>	<u>7371</u>	11520	8304	7338	8174	8454	<u>10610</u>
1988-89	9962	12720	12180	15550	16060	25250	31290	15830	11420	10730	11780	13460	15500
MEAN	14780	15820	17310	19120	21400	24990	30120	27900	25160	12470	10520	12720	19340
MEDIAN	14000	15010	16390	18020	18730	20350	24820	25380	25490	11030	10440	12860	17640

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USGS # 13290440

HELLS CANYON

River: SNAKE

Drainage Area: 73300 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 247.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68	1203	1237											203
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 13290440

HELLS CANYON

River: SNAKE

Drainage Area: 73300 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 247.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	26	6500	3366	3677	-204	1118
1958-59	1633	572	1163	0	-2041	-1946	237	7543	2597	-163	344	-706	794
1959-60	-1133	-349	-1184	-4455	-1684	2988	4961	952	-241	901	-464	-471	-17
1960-61	222	-577	-3018	-5462	-1264	-1661	2056	7229	1485	1669	256	-208	65
1961-62	-18	-12	-1641	-5159	-1394	128	1676	2955	3267	578	-286	-82	-1
1962-63	124	-88	-249	-5449	2559	-501	4043	-18	89	-23	-95	-726	-57
1963-64	-38	394	-3853	-6176	-3033	-842	5970	2507	6282	-100	-98	-180	53
1964-65	156	96	-1104	-555	-10665	-3998	1121	4463	10002	-136	-866	-1103	-160
1965-66	-4957	-677	199	-3875	-314	2032	3318	5989	252	245	66	52	192
1966-67	-141	-302	-906	-3107	-4578	-1901	-155	4487	5933	151	200	-139	-16
1967-68	1374	361	-1299	-3752	100	2047	-3247	5095	1855	-162	-256	241	201
1968-69	-102	0	-3095	-323	-4765	-4140	2219	6619	3367	0	0	-169	-9
1969-70	32	-993	-1575	1510	-7947	-104	-1004	6612	2792	98	128	-333	-3
1970-71	129	-706	-2233	1630	-7142	-4482	-2953	7985	7261	163	130	-874	-42
1971-72	-16	-390	-535	-261	-4977	-4784	-4041	2604	12874	113	-373	336	50
1972-73	-375	-1212	-1596	-2484	-2935	1863	4155	2540	-1095	978	82	-33	10
1973-74	80	-671	-65	-2880	-4155	853	-4894	1353	10041	-16	-113	-168	-32
1974-75	-1059	-439	50	-2186	-4334	-1427	-1780	2368	8508	145	374	-1833	-113
1975-76	1805	-134	-357	-2179	-5880	-702	355	7192	1211	16	-323	0	113
1976-77	16	-776	-1317	-2658	1934	-967	-383	2835	84	-588	570	1682	19
1977-78	-896	-51	-1558	-4154	-1716	-1096	4110	2297	2944	-358	-343	-116	-84
1978-79	554	-220	-3828	-2462	566	2063	299	3884	-2694	-3677	3256	1666	-52
1979-80	634	-2737	-1044	-1760	746	-153	2914	3197	-157	-1880	-103	1230	68
1980-81	283	-1132	426	-1855	-965	-1208	5587	-230	-264	-683	-380	-157	-52
1981-82	513	-531	-1848	-5120	8033	-8887	825	6294	3232	-102	-172	-1241	12
1982-83	-100	1201	-21	-1983	-1556	-4823	2411	2892	3434	-107	-1926	-1344	-166
1983-84	3061	-104	-320	-2373	-4784	1490	2502	-39	3533	-338	-737	-822	103
1984-85	1332	-555	-3082	-2292	-1776	-1826	3061	6986	-2908	-1309	1575	464	-14
1985-86	-364	118	-792	-1460	4269	-5568	501	5852	93	-180	-9	-617	121
1986-87	322	-250	-524	-2638	-2243	3327	2056	-525	1010	-431	-742	-530	-87
1987-88	1663	-1444	-2222	-2710	542	171	4728	-178	1577	-378	-645	788	142
1988-89	151	-422	-820	-4489	-3376	3470	-1632	3783	3121	-1522	-830	-1157	-288
MEAN	158	-387	-1234	-2704	-2089	-987	1259	3611	2999	-117	59	-211	58

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USGS # 13290440

HELLS CANYON

River: SNAKE

Drainage Area: 73300 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 247.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										10630	8134	9637	
1928-29	15860	15790	14230	14170	13070	23640	27700	21290	19830	8796	7686	9370	15950
1929-30	11450	17170	17030	15150	18590	14580	15370	17300	13930	7769	8126	9165	13760
1930-31	11550	13670	14710	12690	11870	14380	14440	12790	8542	6628	<u>6881</u>	<u>7960</u>	11340
1931-32	9562	11370	11520	11460	12070	25190	29200	35700	27310	10250	8262	9698	16800
1932-33	11250	12600	12730	12190	11850	15650	20480	22260	31120	9780	8537	9889	14850
1933-34	11410	12420	12810	15110	13480	13850	16000	12260	9021	7499	7448	8044	11600
1934-35	<u>9289</u>	<u>10500</u>	10720	10960	<u>10740</u>	<u>11780</u>	18450	18840	18060	8226	7896	8777	12010
1935-36	9497	10780	<u>10100</u>	11510	12770	15590	36380	36370	27030	8498	8615	10050	16400
1936-37	10660	11160	10970	<u>10340</u>	12130	14550	22160	20070	14350	8379	8452	9478	12710
1937-38	10850	12240	15800	13280	14930	25980	44660	47440	38690	19840	9281	10220	21940
1938-39	12940	13410	13300	13290	14540	26500	27000	19720	11390	8989	8652	10180	14990
1939-40	11230	11570	11860	12720	16530	23080	31830	23520	14790	8517	8472	11440	15440
1940-41	12960	14190	13570	13690	16420	20350	19940	21590	22680	10230	10160	11580	15590
1941-42	13270	14780	17690	14970	17930	17500	38140	29200	28260	11660	9764	11610	18690
1942-43	13170	15590	17400	24050	26790	35110	64920	38120	48260	<u>26390</u>	11280	12230	27700
1943-44	17070	17990	16000	14820	13110	15720	21230	17720	24710	10180	9738	11010	15760
1944-45	12230	13680	12350	14420	18660	17310	20930	32870	33570	12180	10180	11860	17480
1945-46	14000	17990	19900	20560	18650	31030	49500	37450	25780	11490	10090	12500	22400
1946-47	15610	17850	20930	16300	19910	18590	20540	29580	31220	10720	10200	12090	18600
1947-48	14760	15050	16160	18490	16360	14900	24440	33720	39200	12650	10540	12430	19030
1948-49	13630	13600	15740	16550	21150	30220	26230	27570	20090	10430	10500	12150	18130
1949-50	14670	14240	13400	14500	18070	23230	32660	28290	32910	21130	11590	13190	19800
1950-51	17010	17630	18320	20370	29690	29990	38930	40530	26980	13810	12390	12810	23140
1951-52	18800	18430	20900	20990	24930	33270	<u>73050</u>	56200	33800	17260	12010	13910	28580
1952-53	14690	12960	13320	20200	19970	20930	22770	24230	45280	15620	11610	13390	19530
1953-54	14550	14370	14880	15880	17800	19300	24820	24970	21950	12920	11340	12910	17120
1954-55	15670	15010	13980	13970	12410	14230	19250	18230	17060	11450	10380	12170	14490
1955-56	13990	13840	20970	21760	21590	31460	39260	40590	41940	12510	12220	13670	23620
1956-57	17130	16060	15980	14640	21500	33740	36370	52240	29980	11720	11750	14000	22920
1957-58	16130	14290	15060	15140	26300	25260	38050	36540	35610	11810	12240	14180	21640
1958-59	14360	14120	14010	15040	15260	15100	17220	18230	18190	10640	11250	15220	14870
1959-60	16130	13570	13410	12240	15500	21520	22750	20530	18410	10280	11570	12640	15700
1960-61	13620	14090	13020	12560	16690	14950	14000	14830	13290	8450	8657	10770	12880
1961-62	12260	12090	12040	11420	17570	17570	23890	23210	18650	9858	11120	12830	15170
1962-63	17110	15710	16870	13350	21630	13680	17960	22570	35570	10810	10630	13210	17360
1963-64	13570	14380	13800	13470	13870	15550	25650	27890	37720	11840	11260	13690	17690
1964-65	14760	16150	26310	28770	<u>46120</u>	37950	42300	43810	33870	16740	14530	14800	27870
1965-66	16260	17200	20150	21100	19810	19150	15900	13930	11850	9486	9946	11920	15540
1966-67	13340	13700	14380	15270	14150	13670	13330	20010	28010	13280	10380	13040	15200
1967-68	14970	15860	16690	16480	22390	15800	11880	13170	15340	9675	13880	12810	14880
1968-69	14850	16710	16830	26510	27960	33310	45240	33460	22930	11470	11610	13850	22830
1969-70	15640	13900	14810	26780	22350	19820	20110	35310	35470	16490	11050	15260	20560
1970-71	17000	18990	22750	<u>36310</u>	37530	37440	58490	58400	46360	22750	11300	14580	31750
1971-72	24120	25260	25070	30990	33970	57930	44700	35530	38360	12720	11800	15160	29600
1972-73	20750	21240	22050	23240	21070	22190	21250	16160	12130	9356	9828	13220	17690
1973-74	13800	18080	19940	24460	25370	42970	52860	41680	42790	20620	11500	13570	27270
1974-75	16340	17150	19130	20160	22240	31980	45570	52930	37110	14980	11690	13510	25220
1975-76	18260	18770	22780	23460	24960	31470	48220	44290	27280	10430	13770	16290	24970
1976-77	17240	16280	17150	15140	14110	12730	<u>8103</u>	<u>9237</u>	<u>7863</u>	<u>6313</u>	7221	8569	11660
1977-78	10450	11240	15500	15710	17660	22590	33440	31590	21640	14100	10810	15770	18360
1978-79	13830	15800	16030	18120	21320	27640	23950	18700	12280	8640	11720	12310	16660
1979-80	12730	11630	11060	15000	16970	16490	23540	32650	34950	12990	10490	15610	17810
1980-81	13770	14970	18130	16230	19120	15860	20870	20950	27200	8871	8960	12770	16420
1981-82	14880	14800	18400	15490	39990	39800	52600	51250	36680	24480	12600	17100	28050
1982-83	20960	24520	30070	32410	35450	52720	49400	58790	50880	25450	15160	16190	34320
1983-84	23100	26980	<u>30090</u>	35860	27270	44560	64460	<u>68800</u>	<u>62620</u>	22830	<u>15260</u>	<u>18290</u>	<u>36660</u>
1984-85	<u>25300</u>	<u>28080</u>	23430	24760	23330	24730	38680	25360	16940	9913	11740	16920	22400
1985-86	16280	15820	16150	19150	43130	<u>60770</u>	51520	43750	38850	12720	12040	17470	28830
1986-87	23150	21040	22330	19050	15220	16680	12300	12170	9621	9328	9423	11490	15170
1987-88	12820	12080	11810	11420	12110	11810	12100	11340	9882	6960	7528	9242	<u>10750</u>
1988-89	10110	12300	11360	11070	12690	28720	29660	19610	14540	9204	10950	12310	15210
MEAN	14860	15620	16690	17790	20340	24490	30760	29790	26730	12410	10550	12610	19370
MEDIAN	14550	14800	15980	15270	18590	21520	25650	27570	27030	10760	10580	12700	17690

HCD3A

USGS # 13317000

WHITE BIRD

River: SALMON

Drainage Area: 13550 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 53.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										11050	4814	4121	
1928-29	4467	4142	3524	3402	3439	4283	<u>5401</u>	19400	32150	9989	4021	3508	8148
1929-30	3432	3224	4590	3112	4271	4545	15470	24900	23970	7196	4262	3583	8548
1930-31	4628	3773	3074	3204	3059	4071	7812	20390	11190	<u>3521</u>	<u>2299</u>	2521	<u>5812</u>
1931-32	<u>2952</u>	<u>3010</u>	2823	<u>2737</u>	<u>2875</u>	4587	10040	38900	41350	13200	4940	3834	10940
1932-33	4144	4420	3072	3409	3001	3830	7782	18440	56700	10470	4410	3596	10250
1933-34	3721	4503	4281	4472	4710	7809	21520	21350	10040	4244	2577	2525	7648
1934-35	3420	4013	3345	3156	3285	3617	8310	24320	28820	8051	3439	2715	8048
1935-36	2963	3258	<u>2749</u>	2923	2994	3843	17370	42140	25230	6627	3874	3380	9788
1936-37	3131	3097	3027	2975	3108	3533	5497	23460	18150	6100	2917	<u>2486</u>	6475
1937-38	2962	3281	4736	3359	3716	5229	13380	38570	47020	15590	5528	4026	12300
1938-39	4768	4380	3931	3633	3346	5659	13700	30460	14310	8413	3075	3046	8090
1939-40	3405	3232	3718	3422	3794	6422	14690	34680	20370	5821	3044	4094	8900
1940-41	5912	5002	4332	3652	3775	5237	9077	26870	24060	8528	5264	5042	8900
1941-42	5813	6907	<u>9492</u>	5262	4826	5052	19610	27050	37850	14540	5228	4135	12140
1942-43	4113	5303	4716	4761	4983	6143	<u>27130</u>	36600	52530	30250	8361	5179	15850
1943-44	4900	5145	4033	3493	3887	3866	6939	22060	27050	10610	5049	3926	8412
1944-45	3803	4348	3205	3518	3920	4025	5817	24450	34950	12010	4865	4008	9084
1945-46	4051	4645	4043	4149	3829	5568	15700	35990	27310	10110	4845	5387	10490
1946-47	6310	6291	6984	4290	4948	7096	13540	52000	32470	11690	5429	4791	13040
1947-48	5966	5528	4928	5049	4501	4500	10600	42410	60020	14100	6555	4670	14050
1948-49	5172	5057	4042	3684	4094	6232	14370	47860	28780	8316	4234	3677	11330
1949-50	4310	4634	4235	3783	4530	5337	9775	24870	50490	21810	6826	5185	12150
1950-51	6399	7219	5851	4618	5886	5412	18180	44030	37190	16750	7224	4856	13660
1951-52	5934	5166	4896	4205	4298	4573	16950	43760	39530	13240	5688	4128	12700
1952-53	3927	3808	3711	4755	4292	4743	10430	23080	53440	22790	6410	4349	12140
1953-54	4211	4535	4192	3999	4597	5079	11880	39090	32810	16880	5991	4362	11500
1954-55	4264	4249	3344	3462	3321	<u>3516</u>	5460	20420	43190	16480	5423	4127	9775
1955-56	4618	5550	7731	5733	4301	7428	20310	<u>56030</u>	52900	14590	6661	4893	15900
1956-57	5185	5250	4639	3710	4760	6203	9385	51440	47170	12820	5282	4417	13390
1957-58	4986	4504	4282	3705	4949	4715	8893	48390	35970	10350	5293	4170	11720
1958-59	4392	5416	5233	4601	4604	4792	11290	25390	45310	12130	4967	5413	11120
1959-60	8547	6763	4860	4148	4163	6535	14590	24710	35180	8751	4777	3969	10570
1960-61	3925	4296	3576	3282	5000	4856	7483	26860	34860	6679	3497	3985	9019
1961-62	4201	4073	3718	3844	4278	4057	14650	27390	38980	12130	5465	3730	10540
1962-63	<u>8592</u>	7433	6795	4293	<u>8096</u>	5855	8781	34550	42510	14550	5840	5133	12700
1963-64	4750	5255	4101	3827	3806	3930	8105	28270	55640	18430	6757	5472	12340
1964-65	4673	4748	7531	6805	6878	6439	18730	41970	68500	24400	<u>8888</u>	<u>7077</u>	17220
1965-66	5985	5473	4384	4549	4133	4844	10110	24180	18690	6078	3333	3319	7938
1966-67	3743	4197	3942	4206	4101	4752	5971	32070	57310	17950	5587	4326	12350
1967-68	6311	5983	4811	4401	5823	6946	8260	24920	36440	10110	6019	5568	10450
1968-69	6304	6584	5087	6285	5054	5566	19050	47970	33240	10650	4807	4151	12930
1969-70	4885	4442	4189	5027	4855	5059	5750	31300	54290	18760	5966	6313	12580
1970-71	5660	6343	5830	5946	7655	6177	12750	52680	68150	24480	8105	5733	<u>17480</u>
1971-72	5690	5331	4623	4582	4778	9260	8788	34640	63780	15420	6249	5293	14010
1972-73	5591	5161	4810	4262	3956	4582	6082	20840	18560	6767	3529	3803	7345
1973-74	3876	7305	5427	<u>8386</u>	5963	8179	14510	34510	<u>82600</u>	25050	8580	5171	17450
1974-75	4960	4892	4212	4066	4054	4778	5875	20340	60190	<u>35470</u>	8439	5480	13580
1975-76	6914	6680	7211	5511	5115	5689	13870	52210	45420	16340	8474	6657	15030
1976-77	5842	5124	4104	3788	3880	3734	6555	<u>10510</u>	13950	5271	3316	3785	5820
1977-78	4969	4714	6466	4756	4753	8370	15900	29040	46580	22310	7442	6464	13500
1978-79	4967	4551	3919	3781	4199	5345	7197	28600	23280	7140	3994	3134	8363
1979-80	3725	3769	3686	3659	4058	4768	12530	36600	30610	13810	5348	5392	10670
1980-81	4612	5600	6301	5693	5555	5855	11220	30510	39630	11340	4604	3716	11220
1981-82	4882	5772	5835	4737	7599	8058	11670	40640	65920	31750	8755	6101	16820
1982-83	7733	6160	5486	5451	5359	8586	9964	31190	48990	20150	8677	5807	13650
1983-84	6208	<u>8254</u>	5725	5672	5398	7334	12540	37530	60170	23860	8457	6453	15620
1984-85	6003	5882	4615	4304	4032	4885	14080	30450	21810	6504	4484	5693	9412
1985-86	5463	5208	4106	4292	6689	<u>11680</u>	18510	33870	43340	10450	5065	5703	12860
1986-87	5535	5313	4063	3740	4073	5177	10930	18940	<u>9533</u>	4654	3058	2629	6483
1987-88	3066	3327	3232	3084	3337	4093	11270	22330	19030	5394	2956	2587	6973
1988-89	3064	3738	3155	3229	3236	5789	13640	25750	25880	7710	4100	3508	8576
MEAN	4897	5004	4632	4260	4521	5543	11900	32200	38610	13370	5377	4456	11240
MEDIAN	4768	5002	4281	4148	4278	5177	11270	30460	37190	11850	5246	4160	11220

WHB3H

USGS # 13317660 **LIME POINT**
Monthly mean historical streamflow in cfs.

River: SNAKE

Drainage Area: 88000 Sq. Mi.
River Mile: 172

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										22230	13140	13900	
1928-29	20470	20060	17860	17670	16620	28260	33760	41930	53180	19170	11850	12990	24490
1929-30	14990	20500	21820	18350	23110	19420	31590	42920	38610	15200	12490	12840	22610
1930-31	16300	17550	17880	16000	15040	18670	22830	34060	20170	<u>10290</u>	<u>9259</u>	<u>10560</u>	<u>17400</u>
1931-32	12610	14480	14450	14290	15050	30080	40290	76770	70010	23920	13370	13640	28250
1932-33	15500	17160	15920	15710	14950	19670	29020	42090	90010	20860	13130	13600	25590
1933-34	15250	17080	17310	19870	18490	22140	38340	34300	19500	11920	10120	10660	19570
1934-35	12810	14660	14190	14240	<u>14170</u>	<u>15570</u>	27520	44410	47910	16620	11460	11580	20430
1935-36	<u>12560</u>	<u>14140</u>	<u>12940</u>	14520	15870	19640	54730	79660	52850	15300	12570	13510	26500
1936-37	13870	14340	14090	<u>13380</u>	15320	18280	28130	44730	33340	14780	11480	12060	19490
1937-38	13930	15660	20850	16830	18860	31780	59620	88620	87840	36250	15050	14370	35000
1938-39	17870	17950	17390	17040	18010	32660	41500	51150	26210	15630	11820	13310	23410
1939-40	14730	14890	15700	16300	20540	30080	47660	59330	35990	14580	11620	15650	24740
1940-41	19120	19540	18130	17540	20400	26130	29940	49630	48270	19360	15630	16810	25040
1941-42	19060	21940	27990	20630	23120	22890	59360	58000	67520	26970	15200	15890	31510
1942-43	17420	21080	22300	29020	32090	41670	<u>93610</u>	76040	102200	<u>57800</u>	19950	17570	44180
1943-44	22120	23300	20170	18430	17130	19750	28840	40650	52720	21160	14930	15050	24500
1944-45	16140	18180	15680	18090	22760	21610	27470	58990	70100	24720	15230	16010	27050
1945-46	18180	22800	24130	24900	22640	36990	86470	75250	54320	22190	15140	18080	33440
1946-47	22110	24470	28410	20810	25210	26160	34900	82980	64620	22760	15780	17010	32120
1947-48	20970	20830	21330	23880	21070	19650	36280	78930	101600	27430	17340	17260	33840
1948-49	18970	18830	19910	20340	25420	36870	41650	77100	49800	19050	14870	15940	29910
1949-50	19110	19020	17770	18420	22790	28890	43160	54470	84950	43760	18640	18510	32440
1950-51	23630	25140	24470	25180	35890	35710	58260	86070	65140	31050	19790	17790	37310
1951-52	24890	23750	26060	25360	29420	38090	91530	102400	75090	31420	17940	18190	41970
1952-53	18740	16880	17180	25190	24490	26000	34140	48850	100600	39530	18330	17890	32270
1953-54	18890	19050	19230	20050	22680	24740	37580	65410	55790	30390	17530	17420	29080
1954-55	20080	19410	17440	17550	15840	17890	25220	40160	61640	28450	15970	16430	24680
1955-56	18780	19620	29290	27870	26130	39530	61330	99000	96640	27780	19130	18740	40300
1956-57	22500	21510	20840	18510	26610	40420	46570	106300	78540	24970	17210	18550	36920
1957-58	21300	18950	19520	19000	31680	30350	47870	87450	67080	19370	14070	18710	32900
1958-59	17280	19180	18310	20000	22160	22150	29260	37560	62450	23430	16080	21560	25730
1959-60	26110	20920	19630	21000	21500	25560	33300	45610	54920	18430	16970	17210	26740
1960-61	17450	19130	19770	21440	23280	21860	20060	35820	47990	13730	12030	15090	22260
1961-62	16620	16310	17550	20630	23490	21780	38050	48980	55730	21960	17070	16780	26210
1962-63	26080	23590	24420	23300	27660	20440	23590	58700	79280	25850	16750	19230	30700
1963-64	18490	19410	21890	23600	20840	20490	28500	55170	88840	30970	18330	19500	30460
1964-65	19400	20930	35250	36520	<u>64150</u>	48810	61340	83170	94160	42130	24590	23180	45950
1965-66	27380	23530	24480	29680	24400	22370	23650	33330	31070	15600	13350	15300	23680
1966-67	17360	18410	19480	22830	23090	20700	19990	49580	81520	31930	15970	17640	28180
1967-68	20070	21650	22950	24810	28420	21170	23950	34280	51180	20340	20340	18290	25570
1968-69	21460	23590	25280	33450	38020	43370	63570	76890	54290	22560	16590	18310	36400
1969-70	20640	19470	20720	30560	35430	25290	27250	61810	88680	35740	17070	22080	33650
1970-71	22700	26270	31070	40950	52750	48470	75260	105900	109200	48080	19580	21370	50030
1971-72	30000	31160	30430	36020	43960	72850	58290	69270	90940	28630	18640	20270	44140
1972-73	26860	27760	28610	30180	28110	25170	23690	35610	32560	15440	13410	17180	25360
1973-74	17730	26680	25830	36580	35860	51060	73520	76720	118000	46990	20540	19100	45650
1974-75	22510	22630	23420	26550	30780	38460	53780	73150	91070	51660	20060	21000	39580
1975-76	23570	25770	30640	31380	36140	38110	62580	91040	72410	27240	22810	23110	40360
1976-77	23200	22300	22680	21690	16160	17550	<u>15390</u>	<u>17360</u>	22150	12290	10050	10780	17650
1977-78	16450	16160	23810	24850	24440	32790	46830	59870	66580	37690	18870	22610	32590
1978-79	18410	20710	23900	24500	25130	31360	31530	45210	39180	19780	12620	13890	25510
1979-80	15960	18270	15950	20610	20530	21720	34210	67650	67210	29410	16150	19960	28950
1980-81	18260	21900	24350	24070	26000	23310	27390	53190	68490	21380	14120	16770	28230
1981-82	19420	21450	26440	25580	40130	57440	64560	87710	101400	57630	21910	24670	45660
1982-83	29050	29720	35800	40160	42760	67100	57960	89030	98150	46730	<u>26090</u>	23550	48850
1983-84	26420	<u>35590</u>	<u>36320</u>	<u>44090</u>	37680	50910	75550	<u>108200</u>	<u>121200</u>	48080	24770	<u>25780</u>	<u>52840</u>
1984-85	<u>30150</u>	34740	31290	31480	29290	31720	50780	50110	42810	18030	14830	22330	32260
1985-86	22280	21100	21210	25110	46110	<u>79010</u>	70510	73130	83430	23690	17280	23970	42120
1986-87	28530	26780	27060	25550	21710	19050	21880	32390	<u>18560</u>	14610	13340	14740	22040
1987-88	14320	16950	17380	17330	15050	15980	19290	34560	28050	12970	11240	11140	17860
1988-89	13120	16580	15450	18910	19420	31550	45890	42670	38320	18780	16070	17140	24480
MEAN	19840	21010	22160	23580	26160	30940	42960	61660	65120	26400	16090	17320	31090
MEDIAN	19060	20500	21210	21690	23280	26130	38050	58700	65140	23090	15970	17230	29080

LIM3H

USGS # 13317660

LIME POINT

River: SNAKE

Drainage Area: 88000 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 172

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										22230	13140	13900	
1928-29	20470	20060	17860	17670	16620	28260	33760	41930	53180	19170	11850	12990	24490
1929-30	14990	20500	21820	18350	23110	19420	31590	42920	38610	15200	12490	12840	22610
1930-31	16300	17550	17880	16000	15040	18670	22830	34060	20170	<u>10290</u>	<u>9259</u>	<u>10560</u>	<u>17400</u>
1931-32	12610	14480	14450	14290	15050	30080	40290	76770	70010	23920	13370	13640	28250
1932-33	15500	17160	15920	15710	14950	19670	29020	42090	90010	20860	13130	13600	25590
1933-34	15250	17080	17310	19870	18490	22140	38340	34300	<u>19500</u>	11920	10120	10660	19570
1934-35	12810	14660	14190	14240	<u>14170</u>	<u>15570</u>	27520	44410	47910	16620	11460	11580	20430
1935-36	<u>12560</u>	<u>14140</u>	<u>12940</u>	14520	15870	19640	54730	79660	52850	15300	12570	13510	26500
1936-37	13870	14340	14090	<u>13380</u>	15320	18280	28130	44730	33340	14780	11480	12060	19490
1937-38	13930	15660	20850	18830	18860	31780	59620	88620	87840	36250	15050	14370	35000
1938-39	17870	17950	17390	17040	18010	32660	41500	51150	26210	15630	11820	13310	23410
1939-40	14730	14890	15700	16300	20540	30080	47660	59330	35990	14580	11620	15650	24740
1940-41	19120	19540	18130	17540	20400	26130	29940	49630	48270	19360	15630	16810	25040
1941-42	19060	21940	27990	20630	23120	22890	59360	58000	67520	26970	15200	15890	31510
1942-43	17420	21080	22300	29020	32090	41670	<u>93610</u>	76040	102200	<u>57800</u>	19950	17570	44180
1943-44	22120	23300	20170	18430	17130	19750	28840	40650	52720	21160	14930	15050	24500
1944-45	16140	18180	15680	18090	22760	21610	27470	58990	70100	24720	15230	16010	27050
1945-46	18180	22800	24130	24900	22640	36990	66470	75250	54320	22190	15140	18080	33440
1946-47	22110	24470	28410	20810	25210	26160	34900	82980	64620	22760	15780	17010	32120
1947-48	20970	20830	21330	23880	21070	19650	36280	78930	101600	27430	17340	17260	33840
1948-49	18970	18830	19910	20340	25420	36870	41650	77100	49800	19050	14870	15940	29910
1949-50	19110	19020	17770	18420	22790	28890	43160	54470	84950	43760	18640	18510	32440
1950-51	23630	25140	24470	25180	35890	35710	58260	86070	65140	31050	19790	17790	37310
1951-52	24890	23750	26060	25360	29420	38090	91530	102400	75090	31420	17940	18190	41970
1952-53	18740	16880	17180	25190	24490	26000	34140	48850	100600	39530	18330	17890	32270
1953-54	18890	19050	19230	20050	22680	24740	37580	65410	55790	30390	17530	17420	29080
1954-55	20080	19410	17440	17550	15840	17890	25220	40180	61640	28450	15970	16430	24680
1955-56	18780	19620	29290	27870	26130	39530	61330	99000	96640	27780	19130	18740	40300
1956-57	22500	21510	20840	18510	26610	40420	46570	106300	78540	24970	17210	18550	36920
1957-58	21300	18950	19520	19000	31680	30350	47870	87480	73580	22740	17750	18510	34020
1958-59	18910	19750	19470	20000	20120	20200	29490	45100	65040	23270	16420	20850	26530
1959-60	24980	20570	18450	16550	19820	28550	38260	46560	54680	19330	16510	16730	26720
1960-61	17670	18560	16760	15980	22020	20200	22110	43050	49470	15400	12280	14880	22330
1961-62	16600	16290	15910	15470	22100	21910	39730	51940	59000	22540	16780	16700	26210
1962-63	26210	23520	24170	17850	30220	19940	27640	58680	79370	25830	16660	18500	30650
1963-64	18460	19810	18040	17430	17800	19640	34470	57680	95120	30870	18230	19320	30520
1964-65	19560	21030	34150	35960	<u>53490</u>	44810	62460	87630	104200	42000	23720	22080	45790
1965-66	22420	22850	24680	25800	24080	24410	26960	39320	31330	15850	13410	15350	23870
1966-67	17220	18110	18570	19720	18520	18800	19830	54070	87450	32080	16170	17500	28170
1967-68	21440	22010	21650	21060	28520	23210	20710	39380	53040	20180	20090	18530	25770
1968-69	21360	23590	22180	33130	33260	39230	65780	83510	57650	22560	16590	18140	36390
1969-70	20670	18470	19140	32070	27490	25190	26240	68420	91470	35840	17200	21750	33650
1970-71	22830	25570	28840	<u>42580</u>	45610	43990	72310	<u>113900</u>	116500	48250	19710	20500	49980
1971-72	29990	30770	29900	35760	38980	68060	54240	71880	103800	28740	18260	20610	44190
1972-73	26480	26540	27010	27690	25170	27030	27850	38150	31460	16410	13490	17150	25370
1973-74	17810	26010	25770	33700	31710	51910	68630	78070	<u>128000</u>	46980	20420	18930	45610
1974-75	21450	22190	23470	24360	26450	37030	52000	75520	99580	51810	20430	19170	39470
1975-76	25380	25640	30280	29200	30260	37400	62940	98230	73630	27260	22490	23110	40480
1976-77	23220	21530	21360	19030	18090	16580	<u>15000</u>	<u>20190</u>	22230	11710	10620	12470	17660
1977-78	15560	16110	22260	20700	22730	31690	50940	62160	69530	37330	18530	22490	32500
1978-79	18960	20490	20070	22040	25700	33430	31830	49100	36470	16100	15870	15560	25460
1979-80	16600	15540	14900	18850	21280	21570	37120	70850	67060	27530	16050	21190	29020
1980-81	18540	20760	24780	22220	25040	22100	32970	52960	68230	20690	13740	16620	28180
1981-82	19930	20920	24590	20460	48160	48550	65390	94010	104600	57530	21740	23430	45670
1982-83	28950	30920	35780	38180	41200	62280	60380	91920	101600	46620	<u>24170</u>	22200	48690
1983-84	29480	<u>35490</u>	<u>36000</u>	41720	32900	52400	78050	108200	124700	47740	24030	<u>24960</u>	<u>52940</u>
1984-85	<u>31480</u>	34190	28210	29190	27510	29900	53840	57090	39910	16720	16400	22800	32250
1985-86	21910	21210	20420	23650	50380	<u>73440</u>	71010	78980	83520	23510	17270	23350	42240
1986-87	28850	26530	26540	22910	19460	22370	23940	31860	19570	14180	12600	14210	21950
1987-88	15980	15510	15160	14620	15590	16150	24020	34380	29630	12590	10600	11930	18000
1988-89	13270	16180	14630	14420	16040	35020	44260	46460	41440	17260	15240	15980	24190
MEAN	19920	20810	21530	22250	25100	30440	43600	63560	66690	26340	16120	17210	31120
MEDIAN	19060	20490	20420	20050	22790	27030	38340	58680	65140	23010	16110	17200	29080

LIM3A

USGS # 13333000

TROY

River: GRAND RONDE

Drainage Area:

3412 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

45.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1632	786	721	
1928-29	791	860	784	820	875	3303	3857	5749	5244	1490	629	587	2086
1929-30	615	604	776	596	3333	3122	4799	3532	2908	1022	600	570	1857
1930-31	694	717	608	940	1152	2665	4256	5020	2225	727	472	517	1667
1931-32	524	642	777	837	1138	7673	11330	11000	4605	1950	708	602	3486
1932-33	668	1154	1241	1238	959	3608	6266	7033	9829	2154	761	732	2970
1933-34	737	1023	2325	3262	2310	4137	4828	2707	<u>1871</u>	891	570	541	2099
1934-35	668	1023	1515	1316	1639	2059	5585	5428	3438	1193	565	520	2077
1935-36	550	592	<u>475</u>	1123	860	3699	9639	8492	2993	859	503	527	2525
1936-37	<u>503</u>	<u>507</u>	518	<u>461</u>	<u>657</u>	2516	4619	6360	4044	1113	525	514	1865
1937-38	623	860	1845	1631	1711	3946	6581	6678	4953	1719	749	647	2663
1938-39	731	933	1102	933	1015	5392	6655	5686	2320	1229	595	583	2271
1939-40	645	642	794	1138	3117	4524	5656	4797	2488	865	506	686	2147
1940-41	1011	1308	1829	1391	1594	2571	3056	4665	5251	2076	793	1176	2227
1941-42	1288	2072	3627	1639	2235	3064	8325	6692	4870	2634	834	727	3166
1942-43	697	1208	2554	2592	3496	4932	<u>11900</u>	6967	6799	4482	1230	886	3969
1943-44	826	1022	860	724	1003	2065	3739	3997	3796	1340	642	626	1718
1944-45	603	713	685	1439	2106	2362	4485	7676	6054	1895	703	676	2447
1945-46	668	1147	2225	2117	1649	5522	8774	9229	5423	2415	796	879	3411
1946-47	999	1388	6043	1984	3811	4398	5548	6820	4227	1565	671	732	3179
1947-48	1228	2076	2371	3231	3008	3147	7882	<u>13820</u>	11600	3009	1078	731	4426
1948-49	971	1107	1034	857	2389	6503	10020	11990	4997	1504	798	691	3575
1949-50	819	1008	1121	1130	3543	5863	8379	8609	8278	3706	1123	780	3688
1950-51	1083	1593	2354	2246	4595	3721	8343	6978	3952	1667	756	764	3154
1951-52	1253	1352	1584	1139	1843	3051	9205	9615	5671	2675	987	860	3266
1952-53	666	688	750	3170	4178	3889	6337	7289	8118	3865	1206	831	3403
1953-54	821	1059	1651	1592	2837	2701	5724	5568	4519	2409	988	874	2554
1954-55	794	845	752	794	891	1286	4462	6890	6497	2661	700	705	2275
1955-56	910	1540	4189	3494	2085	5652	10780	11790	7543	2667	961	808	4372
1956-57	805	973	2299	1044	2496	5822	7812	11510	5863	1711	875	752	3501
1957-58	960	942	1987	1698	5544	3028	7934	10060	6641	1862	859	747	3500
1958-59	867	2192	4551	4479	3299	3286	6399	6022	5834	1812	871	1190	3396
1959-60	<u>2559</u>	2332	1594	1061	1849	5105	6852	6409	5182	1477	944	768	3009
1960-61	737	1353	1103	1099	4535	4540	4965	6156	5691	1084	653	762	2703
1961-62	792	885	1330	2053	1953	2669	7902	6221	5186	1763	857	691	2687
1962-63	1310	1608	2224	1072	3685	2401	3735	4965	3541	1265	695	666	2251
1963-64	632	894	836	903	1063	1839	6044	6673	7265	2369	937	847	2520
1964-65	754	909	5496	4994	6912	3556	7995	7014	6358	2843	1277	987	4068
1965-66	857	907	836	1011	847	2483	4180	3739	2159	903	594	632	1598
1966-67	684	940	1638	2429	2271	2606	3125	6752	6493	2441	744	645	2564
1967-68	886	1143	1535	1573	5186	3085	<u>2257</u>	3475	4130	1255	774	800	2159
1968-69	1049	2000	1733	3531	1754	3582	8507	8287	5132	1677	690	692	3222
1969-70	822	751	973	4425	3634	3134	3297	7319	7561	2463	752	988	3003
1970-71	977	1527	1628	4719	5040	3771	5854	9061	6856	3146	1009	926	3698
1971-72	920	1046	1302	2802	4130	<u>11520</u>	6324	9622	8586	2758	1014	913	4245
1972-73	893	1026	2138	2229	1298	2005	2260	4153	2574	831	468	612	1712
1973-74	721	<u>3023</u>	4439	<u>6280</u>	3539	5289	8843	9179	<u>11610</u>	4084	1162	794	<u>4912</u>
1974-75	735	767	905	2117	2103	3869	4833	9415	8846	<u>4951</u>	1227	907	3395
1975-76	1071	1302	4295	3068	2602	3408	10040	9995	5305	2658	1375	840	3830
1976-77	831	836	720	766	769	<u>888</u>	2541	<u>2368</u>	2267	<u>520</u>	<u>448</u>	706	<u>1136</u>
1977-78	892	1557	<u>6295</u>	2953	3313	5100	6427	5876	5032	3315	1033	1163	3582
1978-79	823	750	889	702	2260	5099	6123	9659	4754	1548	721	574	2827
1979-80	692	751	1084	1610	2231	3222	5165	6288	5686	2559	726	850	2568
1980-81	780	1025	3042	1954	4973	3160	4926	5674	6041	1822	655	597	2867
1981-82	887	1132	2368	2593	<u>7386</u>	5363	6467	8781	7882	3918	1067	936	4037
1982-83	1205	1285	1827	2870	4284	7328	4662	6527	5647	3152	1064	854	3388
1983-84	809	1112	1139	2965	2648	7025	7693	8617	9445	4086	<u>1385</u>	<u>1291</u>	4016
1984-85	1058	1800	1371	1051	1150	3341	9440	6961	5127	1080	799	810	2830
1985-86	888	1089	729	1294	6657	8456	4733	5064	4370	1132	629	756	2956
1986-87	840	1205	1035	810	1844	4161	4308	4184	1947	796	529	473	1843
1987-88	528	618	733	962	1727	2812	5328	4350	3355	897	472	<u>465</u>	1848
1988-89	546	814	985	955	946	6284	8914	6663	4417	1247	822	765	2785
MEAN	856	1150	1827	1933	2688	4043	6343	7018	5431	2046	812	756	2905
MEDIAN	819	1025	1371	1573	2260	3582	6123	6692	5186	1788	768	740	2867

TRY3H

USGS # 13334300 ANATONE
Monthly mean historical streamflow in cfs.

River: SNAKE

Drainage Area: 92960 Sq. Mi.
River Mile: 167.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										25450	13940	14000	
1928-29	19690	20970	18060	18420	15920	31480	37850	49290	59400	21000	12150	12720	26430
1929-30	16020	21000	22810	17660	22660	21990	36000	43990	41660	15760	12810	12790	23730
1930-31	15670	16740	17580	15780	15340	20190	29290	38620	23720	<u>10220</u>	<u>8442</u>	<u>9652</u>	<u>18450</u>
1931-32	<u>13170</u>	<u>14010</u>	14570	14090	<u>13840</u>	41260	50280	78290	70940	27240	13490	13410	30400
1932-33	15510	18110	17710	17040	15190	23050	35980	48010	91150	25240	13970	13700	27860
1933-34	14020	17830	16790	23780	20740	23190	40930	38850	22680	12500	10300	10650	21000
1934-35	13370	15230	15830	15010	15440	<u>17340</u>	31960	46190	51780	17640	11560	11610	21900
1935-36	13270	14450	<u>13620</u>	16340	14810	26250	62620	80710	55830	16330	13020	13740	28400
1936-37	14250	14180	14620	<u>12590</u>	15320	21290	33480	50590	38470	15590	11590	11750	21160
1937-38	14280	15840	21340	18480	21090	37190	64810	90830	90220	39080	15460	14520	36960
1938-39	18000	18690	19390	18550	19510	38980	48110	55670	30350	16480	12140	13220	25790
1939-40	15530	15220	17020	18090	24720	38470	57660	64420	41180	15450	11690	14950	27840
1940-41	18950	19540	19880	18650	21540	28450	32200	52510	53840	21760	15940	17140	26700
1941-42	19440	23540	32000	22350	25850	25760	65200	64760	71180	29530	15340	15720	34180
1942-43	17460	21540	24380	31240	35400	47370	106300	79660	105100	63230	20900	17770	47460
1943-44	22480	24060	20840	18650	17730	22350	34110	44530	55960	22350	15170	15160	26090
1944-45	16680	18650	16380	19010	25480	24660	33510	65260	76480	27250	15830	16010	29560
1945-46	18570	23470	25910	27470	23830	42900	75780	81960	62930	24340	15690	18660	36810
1946-47	23490	27460	38080	23350	31210	32550	43250	89480	72290	25220	16550	17620	36720
1947-48	22830	24480	25460	28170	25620	24630	50890	97340	116400	34310	18910	17820	40530
1948-49	20040	20350	21850	22300	31070	49980	56530	89620	57390	20590	15350	16370	35120
1949-50	20810	20970	19880	20640	29440	40550	58200	66370	94390	51640	20370	19160	38500
1950-51	25030	28530	28480	28530	42700	41990	68800	90500	69940	34140	20280	17730	41320
1951-52	26900	26280	29580	27650	33340	42630	<u>107100</u>	119600	85020	37400	19500	19360	47810
1952-53	19960	18050	18510	31600	31900	31510	42440	60850	111400	46580	20230	19210	37820
1953-54	20260	20430	21620	22000	27390	29250	44210	72070	61510	34130	18800	18410	32510
1954-55	21130	20620	18440	18210	16670	19070	32530	51610	69610	30660	16220	16290	27800
1955-56	18720	19600	34720	32210	27860	46370	75730	111500	106300	30740	20460	19840	45320
1956-57	23580	22980	23400	19450	28760	48690	56310	<u>122800</u>	87350	26690	18070	19270	41500
1957-58	22310	19970	21910	20920	37310	34700	57760	99950	76280	22170	15590	19140	37270
1958-59	18670	22070	23850	25580	26240	26150	38080	45170	68620	25640	17530	23270	30020
1959-60	29170	23780	21940	22710	23670	31990	41700	53050	61850	20330	18130	18400	30530
1960-61	18490	21120	21140	22480	28820	28030	26850	42510	54250	14860	12810	16000	25540
1961-62	17650	18100	20160	23470	26400	26390	49480	55730	60800	24140	18010	17790	29800
1962-63	27630	25250	27150	24590	32640	23800	28640	64420	83850	28350	17950	20380	33670
1963-64	19830	20900	23260	25230	22910	23250	38190	65370	98320	35210	19920	20930	34400
1964-65	20690	21920	<u>41630</u>	43680	<u>72520</u>	54870	71080	93730	102400	46340	26130	24620	51430
1965-66	28480	24660	25650	30900	25410	25870	29770	37050	34060	16780	13700	15580	25660
1966-67	18070	19400	21240	25320	25930	23600	23760	56790	87320	35160	16530	18030	30900
1967-68	20750	22570	24480	26430	34140	25840	27050	38440	56620	21720	20500	19090	28070
1968-69	22350	26050	27460	37720	40170	48410	74380	86150	59460	24600	17110	18660	40160
1969-70	21090	20040	21470	35930	40390	28750	31090	70330	96840	39180	17740	22630	37040
1970-71	24390	28310	33240	46610	58820	52430	82970	117200	116900	52420	20930	22910	54640
1971-72	31520	32990	32650	40320	50310	<u>90400</u>	67300	81060	98400	31270	19080	20290	49570
1972-73	27890	28710	30670	33330	30450	28310	26180	42060	38530	16470	13310	16960	27720
1973-74	18770	30920	32100	46750	41290	59350	88700	90500	132700	53880	22140	19510	52980
1974-75	22520	22960	23780	28360	32960	43870	60930	85360	100800	54980	21730	22070	43350
1975-76	24570	27220	36930	35800	39800	43200	78290	102200	77860	31330	23920	23540	45350
1976-77	23930	23080	23510	22340	17090	18680	<u>18880</u>	<u>20610</u>	24380	12830	10250	11280	18910
1977-78	17180	17620	30900	28170	28350	39330	55380	67670	70000	40140	19290	23000	36430
1978-79	19260	21610	24830	24650	27990	38290	40140	56900	44080	21590	13690	14320	28940
1979-80	16610	19480	17820	22850	23570	25820	40100	75480	75730	31490	16340	19820	32070
1980-81	18880	22750	26830	25800	31530	26500	32880	58650	75340	23350	14710	16600	31090
1981-82	19780	21810	28430	28320	49010	65740	73680	97820	110700	<u>63860</u>	22940	24810	50510
1982-83	29630	30890	37710	43430	47710	77140	64080	97250	106600	51100	<u>26460</u>	24040	53010
1983-84	27070	36900	37520	<u>48240</u>	41750	60260	86710	118700	<u>134200</u>	54750	26180	<u>27010</u>	<u>58220</u>
1984-85	<u>31540</u>	<u>36960</u>	33130	32760	30870	36080	63280	57550	48920	19260	15610	22720	35680
1985-86	23310	22660	22310	26990	54890	90330	77470	80640	93230	25680	18210	24800	46560
1986-87	29860	29530	29120	27320	24580	24820	27430	38620	<u>21210</u>	15590	13800	15180	24770
1987-88	15180	17970	18530	18800	17430	19810	25890	40320	32500	13960	11420	11570	20280
1988-89	13760	17330	16960	20580	20390	40740	58460	51800	44630	20600	17160	18360	28390
MEAN	20660	22270	24380	25960	29440	36430	51130	69430	71500	29150	16820	17770	34560
MEDIAN	19830	21540	23260	24590	27390	31510	48110	65260	70000	25550	16440	17800	32510

ANA3H

USGS # 13334300

ANATONE

River: SNAKE

Drainage Area: 92960 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 167.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										25450	13940	14000	
1928-29	19690	20970	18060	18420	15920	31480	37850	49290	59400	21000	12150	12720	26430
1929-30	16020	21000	22810	17660	22660	21990	36000	43990	41660	15760	12810	12790	23730
1930-31	15670	16740	17580	15780	15340	20190	29290	38620	23720	<u>10220</u>	<u>8442</u>	<u>9652</u>	<u>18450</u>
1931-32	<u>13170</u>	<u>14010</u>	14570	14090	<u>13840</u>	41260	50280	78290	70940	27240	13490	13410	30400
1932-33	15510	18110	17710	17040	15190	23050	35980	48010	91150	25240	13970	13700	27860
1933-34	14020	17830	16790	23780	20740	23190	40930	38850	22680	12500	10300	10650	21000
1934-35	13370	15230	15830	15010	15440	<u>17340</u>	31960	46190	51780	17640	11560	11610	21900
1935-36	13270	14450	<u>13620</u>	16340	14810	26250	62620	80710	55830	16330	13020	13740	28400
1936-37	14250	14180	14620	<u>12590</u>	15320	21290	33480	50590	38470	15590	11590	11750	21160
1937-38	14280	15840	21340	18480	21090	37190	64810	90830	90220	39080	15460	14520	36960
1938-39	18000	18690	19390	18550	19510	38980	48110	55670	30350	16480	12140	13220	25790
1939-40	15530	15220	17020	18090	24720	38470	57660	64420	41180	15450	11690	14950	27840
1940-41	18950	19540	19880	18650	21540	28450	32200	52510	53840	21760	15940	17140	26700
1941-42	19440	23540	32000	22350	25850	25760	65200	64760	71180	29530	15340	15720	34180
1942-43	17460	21540	24380	31240	35400	47370	106300	79660	105100	63230	20900	17770	47460
1943-44	22480	24060	20840	18650	17730	22350	34110	44530	55960	22350	15170	15160	26090
1944-45	16680	18650	16380	19010	25480	24660	33510	65260	76480	27250	15830	16010	29560
1945-46	18570	23470	25910	27470	23830	42900	75780	81960	62930	24340	15690	18660	36810
1946-47	23490	27460	38080	23350	31210	32550	43250	89480	72290	25220	16550	17620	36720
1947-48	22830	24480	25460	28170	25620	24630	50890	97340	116400	34310	18910	17820	40530
1948-49	20040	20350	21850	22300	31070	49980	56530	89620	57390	20590	15350	16370	35120
1949-50	20810	20970	19880	20640	29440	40550	58200	66370	94390	51640	20370	19160	38500
1950-51	25030	28530	28480	28530	42700	41990	68800	90500	69940	34140	20280	17730	41320
1951-52	26900	26280	29580	27650	33340	42630	<u>107100</u>	119600	85020	37400	19500	19360	47810
1952-53	19960	18050	18510	31600	31900	31510	42440	60850	111400	46580	20230	19210	37620
1953-54	20260	20430	21620	22000	27390	29250	44210	72070	61510	34130	18800	18410	32510
1954-55	21130	20620	18440	18210	16670	19070	32530	51610	69610	30660	16220	16290	27600
1955-56	18720	19600	34720	32210	27860	46370	75730	111500	106300	30740	20460	19840	45320
1956-57	23580	22980	23400	19450	28760	48690	56310	122800	87350	26690	18070	19270	41500
1957-58	22310	19970	21910	20920	37310	34700	57760	99970	82780	25540	19270	18930	38390
1958-59	20300	22640	25010	25580	24200	24200	38320	52710	71220	25480	17870	22560	30810
1959-60	28040	23430	20760	18260	21990	34980	46660	54000	61610	21230	17670	17930	30520
1960-61	18710	20540	18120	17020	27560	26370	28910	49740	55740	16530	13070	15790	25610
1961-62	17630	18090	18520	18310	25010	26520	51160	58690	64070	24720	17720	17710	29800
1962-63	27750	25180	26900	19140	35200	23300	32680	64400	83940	28330	17860	19650	33610
1963-64	19790	21290	19410	19050	19880	22410	44160	67880	104600	35110	19820	20750	34450
1964-65	20850	22020	<u>40530</u>	43120	<u>61850</u>	50870	72200	98190	112400	46200	25260	23520	51270
1965-66	23520	23980	25850	27030	25100	27900	33090	43040	34310	17020	13770	15630	25850
1966-67	17930	19100	20330	22210	21350	21700	23600	61280	93250	35310	16730	17890	30890
1967-68	22120	22930	23180	22680	34240	27890	23800	43540	58470	21560	20240	19330	28270
1968-69	22250	26050	24370	37400	35410	44270	76600	92770	62830	24600	17110	18490	40150
1969-70	21120	19050	19900	37440	32440	28650	30090	76940	99630	39280	17870	22300	37030
1970-71	24520	27600	31010	<u>48240</u>	51680	47950	80020	<u>125200</u>	124200	52580	21060	22040	54600
1971-72	31500	32600	32110	40060	45330	<u>85620</u>	63260	83660	111300	31380	18710	20630	49620
1972-73	27510	27500	29070	30850	27510	30170	30340	44600	37440	17450	13390	16930	27730
1973-74	18850	30250	32030	43870	37130	60200	83810	91850	<u>142700</u>	53860	22030	19340	52950
1974-75	21460	22520	23830	26170	28630	42440	59150	87730	109300	55120	22100	20240	43240
1975-76	26380	27090	36570	33620	33920	42500	78640	109400	79070	31350	23600	23540	45460
1976-77	23950	22300	22190	19680	19020	17710	<u>18500</u>	<u>23450</u>	24460	12240	10820	12960	18930
1977-78	16280	17570	29340	24020	26630	38230	59490	69970	72940	39780	18950	22880	36350
1978-79	19810	21390	21000	22190	28560	40350	40440	60780	41390	17910	16950	15990	28890
1979-80	17240	16740	16780	21090	24320	25670	43010	78680	75570	29610	16240	21050	32130
1980-81	19160	21620	27260	23940	30570	25290	38470	58420	75080	22670	14330	16440	31030
1981-82	20290	21280	26580	23200	57040	56850	74510	104100	113900	<u>63760</u>	22770	23570	50520
1982-83	29530	32090	37690	41450	46150	72320	66490	100100	110000	50990	24530	22700	52840
1983-84	30130	<u>36800</u>	37200	45870	36970	61750	89210	118700	137700	54410	<u>25440</u>	<u>26190</u>	<u>58330</u>
1984-85	<u>32870</u>	36410	30050	30470	29090	34250	66340	64540	46010	17950	17180	23180	35670
1985-86	22950	22780	21520	25530	59160	84760	77970	86490	93320	25500	18200	24180	46680
1986-87	30180	29280	28600	24680	22340	28150	29490	38090	<u>22220</u>	15160	13060	14650	24680
1987-88	16840	16530	16310	16090	17970	19980	30620	40140	34080	13580	10770	12360	20420
1988-89	13910	16910	16140	16090	17010	44210	56830	55580	47750	19080	16330	17200	28110
MEAN	20740	22070	23750	24630	28380	35930	51770	71320	73080	29090	16850	17660	34590
MEDIAN	20040	21290	21910	22300	26630	31510	48110	65260	71180	25490	16840	17750	32510

ANA3A

USGS # 13340000

OROFINO

River: CLEARWATER

Drainage Area:

5580 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

44.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										6302	2216	1633	
1928-29	2295	1754	1477	1336	1346	4349	8610	24860	22800	5023	1543	1093	6391
1929-30	1193	1209	2298	1254	4057	4864	21650	19210	13800	3311	1387	1444	6290
1930-31	2333	2067	1588	1961	2037	5164	12740	25760	8303	2016	971	1131	5529
1931-32	1182	1452	1526	1480	2007	8288	18540	40950	24640	5445	1694	1287	9053
1932-33	1613	3632	2539	2743	1874	4745	13710	24020	45860	6470	1789	1522	9193
1933-34	3497	5728	10730	<u>11000</u>	7406	14620	27970	18030	<u>6450</u>	<u>2009</u>	999	920	9115
1934-35	1635	2954	2340	2201	2504	4378	12500	25570	17220	4171	1390	998	6501
1935-36	1154	1202	1124	1643	1409	5384	<u>28010</u>	39400	12470	2869	1239	1096	8091
1936-37	988	<u>925</u>	1176	<u>800</u>	<u>1030</u>	<u>2365</u>	6887	25660	15360	3455	1343	930	5100
1937-38	1106	1629	2820	2796	2625	6492	19380	30860	21640	4489	1551	1104	8054
1938-39	1519	1913	2453	2247	1885	6540	18140	28940	10840	3742	1244	1021	6733
1939-40	1262	1247	2277	2781	3886	7845	17610	23960	10430	2153	<u>971</u>	1245	6304
1940-41	2016	2150	2563	2209	2133	4326	9490	<u>15640</u>	12470	3915	1715	3031	5145
1941-42	4558	6309	7281	3968	3293	4747	18540	19860	17110	5937	1774	1329	7898
1942-43	1253	3330	3851	4069	3966	6833	27060	29050	31140	13470	2602	1540	10680
1943-44	1434	1830	1532	1297	1646	3131	9401	20400	14450	4356	1722	1313	5211
1944-45	1226	1551	1356	3053	3022	4003	8835	29970	20810	5489	1584	1662	6897
1945-46	1802	3790	3264	3777	2838	7594	19740	28880	16080	5679	1966	2002	8136
1946-47	4287	5072	11680	4854	5914	8318	17810	40490	19840	6205	2029	1799	10730
1947-48	3440	4533	5066	6027	4284	5656	18650	46950	35360	7194	3048	1691	11680
1948-49	1783	2452	1964	1830	2724	8006	21330	<u>47210</u>	19930	4847	1670	1378	9632
1949-50	2009	3687	3903	3592	5297	8537	16680	27920	37180	12850	3357	1706	10560
1950-51	3726	6120	6445	4997	7441	5766	19220	32530	20040	7180	1977	1324	9729
1951-52	2882	2625	2684	2125	2649	4406	21510	37470	19540	5163	1778	1196	8674
1952-53	959	989	<u>1115</u>	3408	4223	4612	11590	22750	31040	9081	1941	1145	7729
1953-54	1072	1518	2019	1949	3326	4611	14620	33530	24460	10520	2658	1699	8519
1954-55	1685	1960	1655	1779	1769	2599	8380	26550	35860	13110	2749	1635	8325
1955-56	2173	4421	7413	5594	3081	7806	24230	42470	23270	6119	2134	1478	10860
1956-57	1838	2554	3543	2160	3372	7837	14210	44330	24550	5344	1801	1273	9438
1957-58	1542	1546	1938	1865	3900	4239	13340	36790	16300	4245	1748	1590	7441
1958-59	2381	6969	9998	7266	5536	7069	17690	28840	31880	7095	2104	3181	10830
1959-60	<u>10690</u>	<u>8745</u>	5637	3486	3809	8126	19040	24290	25000	4966	1989	1467	9761
1960-61	1569	2579	1982	2160	5572	6526	12530	28880	23380	3395	1212	1767	7619
1961-62	2751	2421	2530	4909	4401	4554	20540	26830	21750	4778	1764	1403	8215
1962-63	3511	5027	5955	3177	7762	6709	11360	25550	18630	5754	1882	1472	8057
1963-64	1418	2073	1816	1940	1915	3184	10540	30130	44140	11230	3246	3063	9541
1964-65	2539	3352	8822	8870	9786	7189	23030	32270	30480	7290	2862	3180	11620
1965-66	2522	3006	2292	2469	2146	6302	14840	23320	14210	3665	1384	1258	6466
1966-67	1655	2199	2929	4474	4099	5523	8802	30370	35270	6960	1643	1086	8755
1967-68	3175	5198	4191	4029	10440	9563	10600	24060	25150	5865	2643	<u>4756</u>	9108
1968-69	5305	7751	5339	9812	4878	7386	22880	35010	18150	5947	1713	1428	10490
1969-70	2242	2070	2348	6382	6328	6028	8165	30940	35330	8029	2084	2486	9365
1970-71	2641	3715	3511	6293	<u>12300</u>	6843	15000	43320	35730	9406	2329	1701	11870
1971-72	1581	1938	1878	3027	6285	<u>19890</u>	15860	43570	46500	10950	2583	1733	12980
1972-73	1621	1795	3476	3155	2204	3814	<u>6390</u>	18700	13080	3426	1250	1362	5039
1973-74	1479	4173	4975	7869	6181	8983	19270	29290	<u>53100</u>	11180	2882	1623	12560
1974-75	1230	1479	1438	2942	2437	4957	8466	27860	47160	<u>18200</u>	<u>4497</u>	2984	10320
1975-76	4598	5737	<u>14160</u>	8479	5527	6268	19280	44930	31260	11100	3691	2508	<u>13150</u>
1976-77	2086	2094	1706	1663	1984	2673	10760	17110	10220	2818	1548	2168	<u>4741</u>
1977-78	3062	4425	12930	6469	6855	13020	20550	28630	30150	11460	3136	2597	11950
1978-79	1635	1646	1589	1543	3190	8097	13210	35360	19990	4666	1665	1273	7847
1979-80	1418	1332	2368	2391	3404	5258	14810	27590	21380	7221	2161	2570	7656
1980-81	1776	3619	7369	6946	7559	6483	12100	23140	30330	7555	2127	1535	9196
1981-82	1838	2303	3556	3221	9907	10450	14490	34170	39470	14330	3154	2181	11570
1982-83	3472	3041	3147	4937	5909	10150	9725	21800	18710	7786	2703	1921	7784
1983-84	2005	3574	2023	5875	4814	11300	16790	30370	37180	9778	2472	2498	10710
1984-85	2260	3147	2361	2023	1830	3812	16790	29390	18310	3162	2160	3579	7414
1985-86	3614	4875	2295	3643	10450	16860	16800	27560	19060	4290	1635	1968	9399
1986-87	1990	3222	2158	1864	3104	6956	14740	18140	6519	2577	1385	<u>860</u>	5299
1987-88	<u>833</u>	1019	1257	1024	2127	4602	17280	24480	15600	3448	1259	982	6153
1988-89	1421	2205	2133	1899	1930	8895	22570	28010	23680	4971	2006	1438	8440
MEAN	2291	3096	3767	3689	4289	6812	15790	29570	24100	6540	2028	1746	8648
MEDIAN	1838	2554	2453	3027	3404	6483	15860	28840	21640	5716	1842	1528	8519

ORO3H

USGS # 13340990

DWRORSHAK

River: NF CLEARWTR

Drainage Area:

2440 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

1.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										3136	1506	1120	
1928-29	1556	1374	1101	953	1011	2863	5738	14220	9382	2619	1288	1018	3606
1929-30	1148	825	1774	903	3097	4272	14520	9862	5082	1956	1074	1075	3788
1930-31	1470	1707	1177	1586	1854	4925	9729	13230	4084	<u>1552</u>	<u>946</u>	1017	3615
1931-32	1055	1273	1292	1302	1656	6286	15920	26760	12810	3442	1527	1125	6212
1932-33	1290	3093	2257	2351	1448	3482	11460	17040	<u>23920</u>	4510	1709	1532	6171
1933-34	3411	5322	<u>18300</u>	13870	7667	14610	<u>20990</u>	11200	4119	1698	1047	1003	8618
1934-35	1629	2809	2254	2193	2288	4072	10490	17950	9688	2861	1325	969	4887
1935-36	1016	977	1006	1522	1098	3545	19040	22610	7202	2176	1122	1015	5196
1936-37	888	799	1099	687	900	2013	7035	15300	8203	2398	1259	<u>925</u>	3471
1937-38	957	1864	2496	2527	2183	5805	15120	17400	9387	2743	1384	1072	5253
1938-39	1283	1469	1892	1631	1377	4656	12730	15530	5538	2188	1086	966	4208
1939-40	1085	1022	2349	2207	4356	7972	11630	12180	4820	1674	979	1045	4273
1940-41	1384	1708	2900	2524	2415	3906	5774	8555	5868	2119	1255	1861	3359
1941-42	2268	3610	6092	2956	2553	3132	10370	8585	6589	3106	1402	1122	4318
1942-43	1079	3069	2784	2847	2390	4872	19960	18310	17050	6517	1916	1239	6835
1943-44	1384	1420	1884	1122	1561	1918	7099	9775	5234	2015	1181	1057	2971
1944-45	1081	1336	1252	3201	3225	3385	6890	18380	9149	2771	1312	1382	4454
1945-46	1314	2833	3197	3479	2310	6138	13590	17980	9417	3880	1648	1416	5613
1946-47	2412	3595	9965	4002	5733	7332	12290	20220	9224	3071	1587	1546	6758
1947-48	3257	3838	3670	5243	4075	4294	13140	28430	18700	4475	2491	1570	7768
1948-49	1548	2098	1613	1379	2318	6431	16740	27330	10450	3133	1480	1269	6334
1949-50	1564	2227	2184	2211	3312	6901	14300	20800	23650	<u>8080</u>	2515	1624	7448
1950-51	2980	4650	6135	4448	7625	4542	15470	17980	9555	3559	1597	1320	6636
1951-52	3145	2665	3236	1903	2627	3125	15670	20570	9503	3479	1535	1167	5719
1952-53	953	938	1036	4232	4974	4095	8626	15260	15070	4521	1716	1144	5202
1953-54	1027	1489	2210	2040	4177	4814	13360	22750	15150	6601	2344	1765	6481
1954-55	1708	2119	1784	1623	1685	1630	6491	17950	18240	6712	2128	1574	5314
1955-56	2313	4124	7608	4841	2832	5330	19130	26960	13880	4650	2021	1494	7941
1956-57	1672	2063	3135	1788	2923	6198	12490	24860	11740	3175	1618	1156	6086
1957-58	1365	1353	1795	1767	5501	4263	12260	21860	8965	2710	1421	1403	5381
1958-59	2022	6160	7351	7965	4474	5364	13890	18130	15950	4184	1744	2936	7515
1959-60	<u>5832</u>	<u>6814</u>	4392	2763	3558	6895	13600	15190	12820	3292	1791	1299	6514
1960-61	1493	2531	1791	2077	9076	7284	11590	19610	13860	2842	1319	1372	6202
1961-62	1666	1460	1782	2800	3429	3537	17240	18040	11630	3321	1582	1342	5645
1962-63	2812	3741	4467	2678	7048	5433	8117	11780	7263	2605	1326	1206	4853
1963-64	1120	1745	1298	1299	1367	2014	8895	19370	22280	5783	2343	2114	5794
1964-65	2024	2975	9934	6405	6661	6178	18300	19270	13290	3912	2161	1804	7737
1965-66	1556	2329	1882	2301	1633	4850	11760	13390	7675	2686	1320	960	4370
1966-67	1232	2087	3304	4771	4416	4697	7161	17040	16230	4046	1471	1141	5632
1967-68	2032	2596	2220	2394	9080	8069	6978	12370	10280	2982	1744	2445	5241
1968-69	3514	4758	3672	6279	3172	5011	16660	19160	8833	2910	1439	1228	6396
1969-70	1558	1295	1841	4158	4959	4742	6035	17120	16410	3739	1681	1607	5422
1970-71	1573	3086	3037	4994	8816	5443	12140	<u>29670</u>	18790	6260	2213	1509	8108
1971-72	<u>98</u>	<u>196</u>	<u>336</u>	<u>453</u>	<u>344</u>	8681	13810	20540	13580	7096	2679	1642	5801
1972-73	1477	3424	4091	4227	1091	904	1086	<u>1468</u>	1438	3342	2867	6120	<u>2636</u>
1973-74	2973	2332	5313	<u>14800</u>	<u>14550</u>	16600	16680	7448	17240	7512	2474	5077	<u>9365</u>
1974-75	2624	5504	3735	4965	13000	11050	3828	5574	8140	4852	3414	7472	6123
1975-76	3654	6139	12210	11200	11430	13140	7765	3948	8603	4937	2593	5388	7570
1976-77	2588	5079	5247	6270	4420	2215	964	2381	2757	4505	2927	2658	3500
1977-78	2186	4913	5512	10470	10830	10450	1110	2019	6007	3401	2850	6407	5479
1978-79	1623	5566	10300	8572	2414	4500	1629	6484	8180	3541	3056	3289	4953
1979-80	2693	4902	7384	6185	2557	2239	3067	3581	8683	3187	2672	5212	4361
1980-81	2263	4815	7482	6280	3082	3760	4492	9616	12400	4333	1640	7587	5648
1981-82	2681	4368	6993	9435	9118	<u>21100</u>	8822	5452	7850	5338	2353	5785	7435
1982-83	3008	5145	6975	7304	4518	9628	4612	3484	7160	4490	2100	6959	5450
1983-84	2763	6232	9309	3955	2890	6489	8144	7258	14780	4423	2480	6992	6298
1984-85	2382	4792	5928	10010	9547	2096	3873	5200	7453	4741	<u>6554</u>	5100	5611
1985-86	1729	6249	8354	1535	1656	16960	5560	7187	5155	2015	1536	9222	5618
1986-87	2283	4122	7044	1107	921	<u>781</u>	1605	8524	2127	2315	1853	7855	3392
1987-88	1867	5102	9778	3885	2118	2161	<u>924</u>	4690	<u>272</u>	1845	5406	8087	3857
1988-89	2106	2250	2083	5754	4648	2291	5253	4787	6427	4926	5939	<u>10110</u>	4701
MEAN	1945	3121	4336	4109	4230	5760	10220	14420	10410	3756	2015	2757	5593
MEDIAN	1666	2809	3135	2847	3097	4814	10490	15300	9382	3371	1664	1502	5613

DWR3H

USGS # 13340990

DWORSHAK

River: NF CLEARWTR

Drainage Area:

2440 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

1.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	0	0	0	0
1968-69	0	0	0	0	0	0	0	0	0	0	0	0	0
1969-70	0	0	0	0	0	0	0	0	0	0	0	0	0
1970-71	0	0	0	0	0	0	0	0	0	1	30	204	19
1971-72	1452	1477	1158	2636	4141	7763	-1092	11336	12251	-98	33	-34	3418
1972-73	-49	-1983	-1334	-211	1098	2683	3865	7595	3832	-1805	-2293	-5495	492
1973-74	-1854	2336	33	-3659	-9093	-8408	118	14100	15831	228	-325	-4185	471
1974-75	-1659	-4319	-2700	-2700	-11038	-6814	3193	12994	13831	2879	-764	-6285	-214
1975-76	-1220	-2420	-2196	-5221	-6919	-8229	6050	21582	5294	33	0	-4101	249
1976-77	-1285	-3832	-4196	-5269	-2881	-49	5311	6099	1529	-3204	-1773	-1176	-892
1977-78	-423	-1865	4635	-6522	-6086	-2000	9882	11498	4840	374	-1057	-5311	706
1978-79	-472	-4336	-9319	-7530	360	2098	8470	15385	1613	-911	-1708	-2386	95
1979-80	-1496	-4185	-5351	-4375	782	2228	7613	9986	0	-98	-1155	-4134	-18
1980-81	-1236	-3277	-1171	-1155	4285	1334	4420	2618	-118	-49	130	-6789	-105
1981-82	-1090	-2151	-3383	-7026	1711	-11401	1949	16280	11865	342	-293	-4655	149
1982-83	-1171	-3344	-4261	-3529	1440	-716	2975	10213	3294	146	-98	-5899	-84
1983-84	-1301	-2521	-6668	488	1391	976	2185	8945	1513	0	-651	-6050	-138
1984-85	-651	-1849	-4066	-8945	-7923	813	10588	13987	4874	-2440	-5367	-2857	-290
1985-86	1025	-1798	-6359	569	6950	-2391	6621	5839	1227	33	-390	-8436	195
1986-87	-992	-1849	-5692	0	1440	5367	7899	1301	1344	-488	-976	-7563	-29
1987-88	-1301	-4538	-9108	-2440	-348	1789	9243	4228	5042	163	-4554	-7563	-799
1988-89	-976	-168	-651	-4391	-3241	3415	10419	10246	3529	-2440	-4554	-9243	180
MEAN	-817	-2257	-3368	-3293	-1329	-641	5539	10240	5088	-386	-1356	-4840	179

DWR3S

USGS # 13340990

DWORSHAK

River: NF CLEARWTR

Drainage Area:

2440 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

1.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										3136	1506	1120	
1928-29	1556	1374	1101	953	1011	2863	5738	14220	9382	2619	1288	1018	3606
1929-30	1148	825	1774	903	3097	4272	14520	9862	5082	1956	1074	1075	3788
1930-31	1470	1707	1177	1586	1854	4925	9729	13230	4084	1552	946	1017	3615
1931-32	1055	1273	1292	1302	1656	6286	15920	26760	12810	3442	1527	1125	6212
1932-33	1290	3093	2257	2351	1448	3482	11460	17040	23920	4510	1709	1532	6171
1933-34	3411	5322	<u>18300</u>	<u>13870</u>	7667	14610	<u>20990</u>	11200	4119	1698	1047	1003	8618
1934-35	1629	2809	2254	2193	2288	4072	10490	17950	9688	2861	1325	969	4887
1935-36	1016	977	1006	1522	1098	3545	19040	22610	7202	2176	1122	1015	5196
1936-37	888	799	1099	<u>687</u>	<u>900</u>	2013	7035	15300	8203	2398	1259	925	3471
1937-38	957	1864	2496	2527	2183	5805	15120	17400	9387	2743	1384	1072	5253
1938-39	1283	1469	1892	1631	1377	4656	12730	15530	5538	2188	1086	966	4208
1939-40	1085	1022	2349	2207	4356	7972	11630	12180	4820	1674	979	1045	4273
1940-41	1384	1708	2900	2524	2415	3908	5774	8555	5868	2119	1255	1861	3359
1941-42	2288	3610	6092	2956	2553	3132	10370	8585	6589	3106	1402	1122	4318
1942-43	1079	3069	2784	2847	2390	4872	19960	18310	17050	6517	1916	1239	6835
1943-44	1384	1420	1884	1122	1561	1918	7099	9775	5234	2015	1181	1057	2971
1944-45	1081	1336	1252	3201	3225	3385	6890	18380	9149	2771	1312	1382	4454
1945-46	1314	2833	3197	3479	2310	6138	13590	17980	9417	3880	1648	1416	5613
1946-47	2412	3595	9965	4002	5733	7332	12290	20220	9224	3071	1587	1546	6758
1947-48	3257	3838	3670	5243	4075	4294	13140	28430	18700	4475	2491	1570	7768
1948-49	1548	2098	1613	1379	2318	6431	16740	27330	10450	3133	1480	1269	6334
1949-50	1564	2227	2184	2211	3312	6901	14300	20800	23650	<u>8080</u>	2515	1624	7448
1950-51	2980	4650	6135	4448	7625	4542	15470	17980	9555	3559	1597	1320	6636
1951-52	3145	2865	3236	1903	2627	3125	15670	20570	9503	3479	1535	1167	5719
1952-53	953	938	1036	4232	4974	4095	8626	15260	15070	4521	1716	1144	5202
1953-54	1027	1489	2210	2040	4177	4814	13360	22750	15150	6601	2344	1765	6481
1954-55	1708	2119	1784	1623	1685	<u>1630</u>	8491	17950	18240	6712	2128	1574	5314
1955-56	2313	4124	7608	4841	2832	5330	19130	26960	13880	4650	2021	1494	7941
1956-57	1672	2063	3135	1788	2923	6198	12490	24860	11740	3175	1618	1156	6086
1957-58	1365	1353	1795	1767	5501	4263	12260	21860	8965	2710	1421	1403	5381
1958-59	2022	6160	7351	7965	4474	5364	13890	18130	15950	4184	1744	<u>2936</u>	7515
1959-60	<u>5832</u>	<u>6814</u>	4392	2763	3558	6895	13600	15190	12820	3292	1791	1299	6514
1960-61	1493	2531	1791	2077	9076	7284	11590	19810	13860	2842	1319	1372	6202
1961-62	1666	1460	1782	2800	3429	3537	17240	18040	11630	3321	1582	1342	5645
1962-63	2812	3741	4467	2678	7048	5433	8117	11780	7263	2605	1326	1206	4853
1963-64	1120	1745	1298	1299	1367	2014	8895	19370	22280	5783	2343	2114	5794
1964-65	2024	2975	9934	6405	6661	6178	18300	19270	13290	3912	2161	1804	7737
1965-66	1556	2329	1882	2301	1633	4850	11760	13390	7675	2686	1320	960	4370
1966-67	1232	2087	3304	4771	4416	4697	7161	17040	16230	4046	1471	1141	5632
1967-68	2032	2596	2220	2394	9080	8069	6978	12370	10280	2982	1744	2445	5241
1968-69	3514	4758	3672	6279	3172	5011	16660	19160	8833	2910	1439	1228	6396
1969-70	1558	1295	1841	4158	4959	4742	6035	17120	16410	3739	1681	1607	5422
1970-71	1573	3086	3037	4994	8816	5443	12140	29610	18790	6261	2243	1713	8128
1971-72	1550	1673	1494	3089	4486	<u>16440</u>	12710	<u>31870</u>	25830	6999	<u>2712</u>	1608	9218
1972-73	1428	1441	2758	4016	2189	3587	<u>4951</u>	9063	5269	1536	<u>574</u>	625	3128
1973-74	1119	4668	5345	11140	5458	8192	16800	21550	<u>33070</u>	7740	2148	892	<u>9836</u>
1974-75	965	1185	1035	2265	1962	4232	7021	18570	21970	7730	2650	1187	5909
1975-76	2434	3719	10020	5978	4516	4906	13820	25530	13900	4969	2593	1288	7819
1976-77	1303	1247	1051	1001	1539	2167	6275	<u>8479</u>	4287	<u>1301</u>	1154	1482	<u>2608</u>
1977-78	1764	3048	10150	3945	4748	8453	10990	13520	10850	3775	1793	1096	6185
1978-79	1151	1230	980	1042	2774	6598	10100	21870	9793	2630	1348	902	5048
1979-80	1197	717	2033	1810	3340	4467	10680	13570	8683	3089	1517	1077	4343
1980-81	1027	1538	6311	5125	7367	5094	8912	12230	12280	4284	1770	798	5543
1981-82	1591	2217	3610	2409	<u>10830</u>	9695	10770	21730	19710	5679	2060	1130	7584
1982-83	1837	1800	2714	3775	5958	8913	7586	13700	10450	4636	2002	1061	5366
1983-84	1462	3711	2641	4442	4281	7465	10330	16200	16290	4423	1829	942	6161
1984-85	1731	2943	1862	1070	1624	2909	14460	19190	12330	2301	1187	2243	5321
1985-86	2754	4450	1995	2104	8606	14570	12180	13030	6382	2047	1146	786	5813
1986-87	1291	2274	1352	1107	2361	6148	9504	9825	<u>3471</u>	1827	877	<u>292</u>	3363
1987-88	<u>566</u>	<u>565</u>	<u>671</u>	1446	1770	3950	10170	8919	5314	2008	853	524	3058
1988-89	1130	2082	1432	1363	1407	5707	15670	15030	9956	2487	1385	869	4881
MEAN	1705	2455	3342	3137	3837	5571	11860	17440	11920	3638	1600	1274	5648
MEDIAN	1493	2098	2220	2394	3172	4906	11760	17950	10280	3134	1522	1162	5613

DWR3A

USGS # 13342500 **SPALDING**
Monthly mean historical streamflow in cfs.

River: CLEARWATER

Drainage Area: 9570 Sq. Mi.
River Mile: 11.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										10050	3758	2876	
1928-29	4105	3254	2691	2420	2311	7262	15220	40020	32900	8187	2878	2084	10310
1929-30	2284	2039	4351	2084	7771	10960	34280	30540	18910	5350	2513	2447	10270
1930-31	3857	3906	2861	3793	4348	12070	25210	37410	12950	<u>3682</u>	<u>1935</u>	2163	9541
1931-32	2312	2859	2992	3082	4350	20580	38260	71500	38570	9353	3340	2512	16670
1932-33	3015	7241	5100	5146	3401	11210	27820	42800	73490	11750	3585	3126	16460
1933-34	7268	11800	<u>33250</u>	<u>28480</u>	15940	32100	51670	30850	10760	3885	2045	1908	19170
1934-35	3295	5901	5054	5161	5809	10270	25070	44170	27540	7119	2816	1940	12030
1935-36	2212	2201	2209	3638	2826	11800	50370	64020	20650	5091	2392	2121	14140
1936-37	1928	<u>1783</u>	2337	<u>1577</u>	<u>2068</u>	5895	16460	41970	23960	5881	2671	<u>1870</u>	9069
1937-38	2057	3452	5608	6121	5931	15290	36450	48970	30940	7386	3026	2184	13970
1938-39	2817	3488	4389	3907	3587	14530	31830	45550	16370	6105	2325	1982	11450
1939-40	2311	2289	4648	5254	11420	18350	30390	36990	15350	3953	1955	2272	11250
1940-41	3748	4403	6947	6104	5683	8442	14880	24830	19280	6381	2996	5098	9074
1941-42	6930	10200	14100	6417	6785	8715	29330	30750	25220	9488	3302	2533	12820
1942-43	2309	6568	7482	7457	8030	14370	<u>53370</u>	51320	53780	20910	4685	2871	19420
1943-44	2936	3515	3675	2575	3504	5328	18260	31080	20060	6423	2959	2363	8556
1944-45	2336	2925	2737	6586	7506	8773	17140	52180	32620	8420	2818	3036	12280
1945-46	3075	6877	7749	8773	6444	17330	35490	48630	26480	9723	3604	3503	14840
1946-47	6590	8911	23560	9923	14330	16870	30930	62610	30640	9633	3641	3356	18450
1947-48	6806	9159	10250	13250	11330	12180	34390	<u>85900</u>	64300	12420	5890	3339	22440
1948-49	3459	5081	4248	3687	6807	19890	40980	75960	31390	8335	3213	2631	17190
1949-50	3514	5755	6031	5808	11450	20490	34910	51470	66300	21800	6180	3441	19740
1950-51	6755	11130	13660	10630	18770	11650	36710	53180	31030	10860	3578	2658	17510
1951-52	6154	5416	6285	4142	6788	9534	40510	61630	30640	9148	3372	2387	15500
1952-53	1893	1941	<u>2126</u>	8767	11050	9792	20710	39600	49130	13480	3763	2233	13680
1953-54	2116	3105	4695	4535	9657	10030	29060	57530	40660	17420	5161	3581	15640
1954-55	3417	4056	3431	3288	3545	<u>3868</u>	18790	47400	57200	20150	4902	3198	14460
1955-56	4632	9430	17420	12210	7084	17520	48040	71470	39230	10890	4260	3062	20460
1956-57	3658	4929	7228	4009	7296	17610	28980	72500	37480	8542	3407	2443	16560
1957-58	3054	3115	4384	4263	13440	9382	29100	58560	25630	7327	3171	3028	13690
1958-59	4532	13470	18780	19120	12600	15020	33940	49170	50940	11620	3851	6434	19950
1959-60	<u>17160</u>	<u>16700</u>	10470	6570	10140	18330	35140	41410	40150	8454	3822	2682	17560
1960-61	2983	5193	4007	4583	19330	16350	26380	51300	40550	8524	2652	3122	15170
1961-62	4409	3662	4575	7919	9239	10010	40150	47600	35880	8658	3497	2691	14840
1962-63	6560	9235	11350	5885	17030	13630	21390	39930	28410	8791	3323	2757	13980
1963-64	2437	3784	3194	3287	3527	5727	21770	52790	<u>73630</u>	18040	5891	5482	16600
1964-65	4618	6448	21450	18260	18770	14310	44240	53390	45910	11790	5270	5044	20760
1965-66	4190	5386	4288	5008	4083	12780	27300	38100	22480	6502	2802	2361	11300
1966-67	3037	4364	6415	10280	9030	11070	17180	48550	51610	11290	3231	2265	14860
1967-68	5261	7873	6814	6666	21460	17980	17860	37170	35940	8925	4494	7210	14740
1968-69	8753	12540	9503	18430	8595	15400	42850	55050	27220	9031	3278	2690	17820
1969-70	3875	3470	4325	12200	12900	12040	15200	48030	52020	11750	3837	4200	15300
1970-71	4376	6882	6654	13140	22100	13520	28510	73000	55520	15720	4499	3251	20550
1971-72	<u>1711</u>	2209	2479	5004	11010	34800	31880	63180	59390	18560	5058	3336	19890
1972-73	3031	5219	8028	8011	3350	5334	<u>7761</u>	20200	14590	6896	3986	7509	<u>7852</u>
1973-74	4263	6627	12000	27320	<u>23600</u>	29900	40710	39290	73570	18970	5168	6607	<u>23920</u>
1974-75	3778	7142	5414	8270	16260	18840	14800	37060	58980	<u>23900</u>	7578	10210	17640
1975-76	8260	12010	27180	20800	18080	21160	29720	49330	39450	15630	6204	7805	21310
1976-77	4607	7005	6933	7863	6480	4879	11630	<u>19200</u>	12870	7329	4853	4812	8209
1977-78	5168	9365	19750	17880	19110	24290	21790	30580	35570	14800	5941	9030	17750
1978-79	3304	7080	11950	9989	6545	15280	16810	43360	27520	8175	4664	4584	13320
1979-80	4198	6316	10130	8937	7224	8798	18410	31730	30110	10150	4655	7679	12350
1980-81	3973	8481	15060	13360	12040	10400	16860	32190	42640	11770	3730	9132	14950
1981-82	4512	6494	10690	13320	23290	33980	25160	38070	45410	19340	5387	7860	19410
1982-83	6446	8490	10580	13360	12430	21690	15200	25260	25590	12220	4764	8820	13740
1983-84	4841	10060	11750	11090	8919	20990	26430	38150	52680	14160	4944	9521	17770
1984-85	4536	7983	8433	12230	11850	7655	22770	35190	26230	8181	<u>8848</u>	8573	13520
1985-86	5249	10680	11430	5163	15620	<u>42470</u>	22990	35450	24810	6652	3300	<u>11520</u>	16270
1986-87	4485	7967	9791	3301	5096	9586	16780	27480	<u>8766</u>	4861	3075	8552	9163
1987-88	3017	6556	11950	5479	4947	7665	19370	30380	16630	5514	6760	9279	10630
1988-89	3461	4577	4414	7949	6928	15130	29730	33320	30520	9967	7716	11330	13750
MEAN	4293	6390	8709	8586	10010	14770	27960	45510	35890	10540	4084	4526	15110
MEDIAN	3857	6316	6814	6586	8595	13520	27820	43360	31390	9250	3685	3162	14860

SPD3H

USGS # 13342500	SPALDING												River: CLEARWATER	Drainage Area: 9570 Sq. Mi.
Monthly mean streamflow, adjusted for storage, in cfs.	River Mile: 11.6													
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.	
1927-28										10050	3758	2876		
1928-29	4105	3254	2691	2420	2311	7262	15220	40020	32900	8187	2878	2084	10310	
1929-30	2284	2039	4351	2084	7771	10960	34280	30540	18910	5350	2513	2447	10270	
1930-31	3857	3906	2861	3793	4348	12070	25210	37410	12950	<u>3682</u>	1935	2163	9541	
1931-32	2312	2859	2992	3082	4350	20580	38260	71500	38570	9353	3340	2512	16670	
1932-33	3015	7241	5100	5146	3401	11210	27820	42800	73490	11750	3585	3126	16460	
1933-34	7268	11600	<u>33250</u>	<u>28480</u>	15940	32100	51670	30850	10760	3885	2045	1908	19170	
1934-35	3295	5901	5054	5161	5809	10270	25070	44170	27540	7119	2816	1940	12030	
1935-36	2212	2201	2209	3638	2826	11800	50370	64020	20650	5091	2392	2121	14140	
1936-37	1928	<u>1783</u>	2337	<u>1577</u>	<u>2068</u>	5895	16460	41970	23960	5881	2671	1870	9069	
1937-38	2057	3452	5608	6121	5931	15290	36450	48970	30940	7386	3026	2184	13970	
1938-39	2817	3488	4389	3907	3587	14530	31830	45550	16370	6105	2325	1982	11450	
1939-40	2311	2289	4648	5254	11420	18350	30390	36990	15350	3953	1955	2272	11250	
1940-41	3748	4403	6947	6104	5683	8442	14880	<u>24830</u>	19280	6381	2996	5098	9074	
1941-42	6930	10200	14100	6417	6785	8715	29330	30750	25220	9488	3302	2533	12820	
1942-43	2309	6568	7482	7457	8030	14370	<u>53370</u>	51320	53780	20910	4685	2871	19420	
1943-44	2936	3515	3675	2575	3504	5328	18260	31080	20060	6423	2959	2363	8556	
1944-45	2336	2925	2737	6586	7506	8773	17140	52180	32620	8420	2818	3036	12280	
1945-46	3075	6877	7749	8773	6444	17330	35490	48630	26480	9723	3604	3503	14840	
1946-47	6590	8911	23560	9923	14330	16870	30930	62610	30640	9633	3641	3356	18450	
1947-48	6806	9159	10250	13250	11330	12180	34390	<u>85900</u>	64300	12420	5890	3339	22440	
1948-49	3459	5061	4248	3687	6807	19890	40980	75960	31390	8335	3213	2631	17190	
1949-50	3514	5755	6031	5808	11450	20490	34910	51470	66300	21800	6180	3441	19740	
1950-51	6755	11130	13660	10630	18770	11650	36710	53180	31030	10860	3578	2658	17510	
1951-52	6154	5416	6285	4142	6788	9534	40510	61630	30640	9148	3372	2387	15500	
1952-53	1893	1941	<u>2126</u>	8767	11050	9792	20710	39600	49130	13480	3763	2233	13680	
1953-54	2116	3105	4695	4535	9657	10030	29060	57530	40660	17420	5161	3581	15640	
1954-55	3417	4056	3431	3288	3545	<u>3868</u>	18790	47400	57200	20150	4902	3198	14460	
1955-56	4632	9430	17420	12210	7084	17520	48040	71470	39230	10890	4260	3062	20460	
1956-57	3658	4929	7228	4009	7296	17610	28980	72500	37480	8542	3407	2443	16560	
1957-58	3054	3115	4384	4263	13440	9382	29100	58560	25630	7327	3171	3028	13690	
1958-59	4532	13470	18780	19120	12600	15020	33940	49170	50940	11620	3851	6434	19950	
1959-60	<u>17160</u>	<u>16700</u>	10470	6570	10140	18330	35140	41410	40150	8454	3822	2682	17560	
1960-61	2983	5193	4007	4583	19330	16350	26360	51300	40550	6524	2652	3122	15170	
1961-62	4409	3662	4575	7919	9239	10010	40150	47600	35880	8658	3497	2691	14840	
1962-63	6560	9235	11350	5885	17030	13630	21390	39930	28410	8791	3323	2757	13980	
1963-64	2437	3784	3194	3287	3527	5727	21770	52790	73630	18040	5891	5482	16600	
1964-65	4618	6448	21450	18260	18770	14310	44240	53390	45910	11790	5270	5044	20760	
1965-66	4190	5386	4288	5008	4083	12780	27300	38100	22480	6502	2802	2361	11300	
1966-67	3037	4364	6415	10280	9030	11070	17180	48550	51610	11290	3231	2265	14860	
1967-68	5261	7873	6814	6666	21460	17980	17860	37170	35940	8925	4494	<u>7210</u>	14740	
1968-69	8753	12540	9503	18430	8595	15400	42850	55050	27220	9031	3278	2690	17820	
1969-70	3875	3470	4325	12200	12900	12040	15200	48030	52020	11750	3837	4200	15300	
1970-71	4376	6882	6654	13140	22100	13520	28510	73000	55520	15720	4529	3455	20570	
1971-72	3163	3686	3637	7640	15150	<u>42560</u>	30790	74520	71640	18460	5091	3303	23300	
1972-73	2982	3236	6695	7800	4448	8017	<u>11630</u>	27790	18420	5091	<u>1693</u>	2014	8344	
1973-74	2409	8963	12030	23660	14510	21490	40830	53390	<u>89400</u>	19200	4842	2422	<u>24390</u>	
1974-75	2120	2823	2714	5571	5217	12020	17990	50060	72810	<u>26780</u>	<u>6814</u>	3921	17430	
1975-76	7041	9594	24980	15580	11160	12930	35770	70910	44740	15660	6204	3704	21560	
1976-77	3322	3173	2737	2594	3599	4830	16940	25300	14390	4125	3081	3635	<u>7317</u>	
1977-78	4745	7500	24390	11360	13020	22290	31670	42080	40410	15170	4884	3719	18460	
1978-79	2832	2744	2631	2459	6905	17380	25280	58750	29130	7264	2956	2198	13410	
1979-80	2702	2132	4779	4562	8006	11030	26020	41710	30110	10050	3500	3545	12330	
1980-81	2737	5204	13890	12200	16330	11740	21280	34810	42520	11720	3860	2343	14840	
1981-82	3422	4343	7312	6293	<u>25000</u>	22580	27110	54350	57280	19680	5094	3205	19560	
1982-83	5275	5145	6322	9835	13870	20970	18180	35480	28890	12370	4666	2921	13660	
1983-84	3540	7539	5078	11580	10310	21960	28620	47090	54190	14160	4293	3471	17630	
1984-85	3885	6134	4367	3283	3924	8469	33350	49180	31100	5742	3481	5716	13230	
1985-86	6273	8886	5067	5732	22570	40080	29610	41280	26040	6685	2909	3080	16460	
1986-87	3492	6118	4099	3301	6536	14950	24680	28780	<u>10110</u>	4373	2099	<u>989</u>	9134	
1987-88	<u>1716</u>	2018	2840	3040	4600	9454	28610	34610	21670	5677	2206	1717	9835	
1988-89	2485	4409	3763	3558	3686	18540	40150	43570	34050	7527	3163	2084	13930	
MEAN	4052	5724	7716	7614	9621	14580	29590	48530	37390	10420	3669	3042	15160	
MEDIAN	3422	5061	5067	5885	8006	12930	29060	48030	32620	9089	3444	2814	14840	

SPD3A

USGS # 13343598

LOWER GRANITE

River: SNAKE

Drainage Area: 103500 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 107.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										35500	18150	17560	
1928-29	24060	24600	21090	21380	18790	39100	53750	89920	93520	29880	15550	15590	37320
1929-30	18660	23420	27390	20310	30940	33350	70980	74880	60790	21790	15830	16020	34470
1930-31	19900	21450	20790	20230	20260	32650	55160	76140	35910	<u>14580</u>	<u>11000</u>	<u>12780</u>	28440
1931-32	15910	17940	17980	17900	18820	62240	89440	151800	111400	37280	17320	16660	47930
1932-33	18890	26020	23150	22800	19170	34670	64560	91410	167700	37690	18040	17560	45090
1933-34	21700	30140	50490	52650	37230	55730	93360	69810	32620	17060	12930	13460	40600
1934-35	17090	22090	21290	20870	21840	28010	57700	90850	80120	25440	14920	14400	34560
1935-36	<u>15910</u>	17680	<u>16270</u>	20610	18220	38460	114000	146800	77480	22110	15920	16580	43330
1936-37	16580	<u>17020</u>	17370	<u>14950</u>	<u>17960</u>	27570	50610	93230	62500	22160	14810	14470	30810
1937-38	16740	20190	27220	25160	27520	52880	102300	142300	124100	47140	18930	17380	51860
1938-39	21120	22790	24090	23000	23620	53920	80760	102100	46340	23270	14990	15960	37740
1939-40	18200	18460	22030	23900	36610	57190	88940	102700	56720	20080	14180	17880	39690
1940-41	22970	24470	27140	25290	27720	37260	47720	78080	74040	28830	19370	22770	36310
1941-42	26630	33870	46190	29160	33080	34850	95500	96820	98260	39700	19080	18860	47640
1942-43	20090	28440	32080	38720	43760	62080	<u>161200</u>	133000	162600	<u>84820</u>	25880	21140	67730
1943-44	25600	27650	24790	21760	21780	28050	53010	75950	77020	29450	18570	18160	35130
1944-45	19350	22190	19490	26120	33420	33800	51300	118800	111200	36350	19080	19640	42540
1945-46	21930	30480	33840	36420	30740	60580	112400	132700	90830	34750	19740	22600	52300
1946-47	30230	36120	61610	33630	45970	49820	74960	154500	104800	35530	20600	21480	55810
1947-48	29820	33690	35890	41620	37420	37220	86170	186100	185200	47420	25150	21650	63900
1948-49	23750	25850	26350	26360	38270	70260	98490	168100	89900	29610	19010	19580	53020
1949-50	24550	27110	26200	26900	41310	61450	94080	119300	163900	74140	26870	23020	59020
1950-51	31920	39320	42290	39300	61770	54020	106600	146200	102800	45700	24180	20890	59480
1951-52	33130	31560	35970	31950	40490	52520	149000	185000	118300	47250	23220	22150	64170
1952-53	22110	20670	20960	40400	43350	41690	63930	101600	164600	60750	24320	21860	52090
1953-54	22630	23970	26590	26950	37540	39690	74100	131300	103500	52240	24330	22460	48790
1954-55	24770	25100	22200	22050	20780	<u>23330</u>	51980	99740	128600	51520	21550	20070	42670
1955-56	23640	29560	52170	44420	35340	64300	125000	186500	149300	42330	25040	23280	66750
1956-57	27400	28100	30850	23960	36500	66650	86180	<u>199300</u>	127600	35930	21860	22120	58980
1957-58	25560	23570	26550	25630	51050	44460	87790	161400	104000	30200	19210	22590	51760
1958-59	23540	36150	43530	45420	39760	42040	72570	95320	121300	38450	21690	30390	50780
1959-60	<u>46930</u>	40790	32700	28830	33890	50730	77620	94560	102500	29530	22380	21700	48460
1960-61	22310	27170	25780	27630	48670	44780	53450	94310	96410	22200	16260	19950	41430
1961-62	22670	22120	24850	31860	36010	36770	90190	103700	97570	33800	22100	21030	45140
1962-63	34770	35170	39340	31020	51160	38110	50120	103900	113300	38180	21730	23540	48260
1963-64	22630	25290	27020	29070	27140	29740	62350	119400	176100	53450	25840	26520	51960
1964-65	25050	28180	63550	62330	<u>92190</u>	69300	117700	150400	153400	59620	<u>31930</u>	30020	73390
1965-66	33550	30220	30400	36090	29920	38870	57820	75320	57160	23650	17170	18900	37440
1966-67	21410	23910	27850	35850	35890	35430	41980	108100	142500	46950	20070	20590	46680
1967-68	26190	30740	31090	33110	55320	44060	44610	74650	93170	31140	25170	26360	42840
1968-69	31170	38830	37050	55510	48180	62690	117500	143200	86900	33610	20520	21350	58030
1969-70	24910	23530	25560	48060	53330	41060	46400	120100	151200	51470	21710	26780	52730
1970-71	27810	33930	38910	58890	80370	65160	111800	193000	174500	68220	24850	25160	75050
1971-72	31750	33870	33710	43700	59780	126300	99760	146500	162800	50450	24940	24610	69780
1972-73	31400	34570	39370	41420	33850	33700	34000	62350	53170	23400	17330	24510	35760
1973-74	23070	37630	44200	<u>74550</u>	64990	89380	129600	130000	<u>206600</u>	72930	27360	26180	<u>77050</u>
1974-75	26340	30150	29240	36740	41270	62800	75820	122600	160000	78950	29350	32310	60470
1975-76	32870	39280	<u>64220</u>	56710	57950	64450	108200	151800	117400	47010	30170	31380	66750
1976-77	28580	30130	30480	30240	23610	23600	<u>30560</u>	<u>39860</u>	37290	20200	15140	16130	<u>27160</u>
1977-78	22380	27020	50780	46130	47530	63710	77310	98380	105700	55000	25270	32070	54260
1978-79	22600	28730	36820	34680	34630	53660	57050	100500	71680	29800	18390	18940	42330
1979-80	20850	25840	28000	31850	30880	34710	58630	107400	105900	41690	21040	27540	44490
1980-81	22890	31280	41990	39230	43670	36960	49820	90930	118100	35170	18470	25770	46100
1981-82	24330	28350	39200	41710	72500	99840	99020	136100	156300	83270	28370	32710	70020
1982-83	36090	39390	48350	56910	60240	98950	79370	122700	132300	63380	31260	32900	66820
1983-84	31950	<u>47020</u>	49330	59460	50750	81390	113300	157000	187100	68970	31160	<u>36570</u>	76080
1984-85	36120	45000	41620	45020	42770	43810	86200	92880	75270	27490	24500	31330	49280
1985-86	28600	33390	33790	32210	70610	<u>132900</u>	100500	116200	118100	32380	21550	36360	62900
1986-87	34380	37560	38960	30650	29740	34490	44280	66210	<u>30060</u>	20500	16910	23770	34000
1987-88	18240	24560	30530	24310	22440	27530	45350	70820	49230	19530	18220	20890	30970
1988-89	17260	21960	21430	28570	27380	56010	88330	85260	75250	30620	24920	29730	42220
MEAN	25140	28940	33280	34790	39630	51490	79710	116100	108700	40190	21220	22690	50140
MEDIAN	23750	28180	30530	31850	36610	44460	77620	107400	104800	35730	20820	21780	48460

LWG3H

USGS # 13343598

LOWER GRANITE

River: SNAKE

Drainage Area: 103500 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 107.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75					8025								616
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 13343598

LOWER GRANITE

River: SNAKE

Drainage Area: 103500 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 107.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	26	6500	3366	3677	-204	1118
1958-59	1633	572	1163	0	-2041	-1946	237	7543	2597	-163	344	-706	794
1959-60	-1133	-349	-1184	-4455	-1684	2988	4961	952	-241	901	-464	-471	-17
1960-61	222	-577	-3018	-5462	-1264	-1661	2056	7229	1485	1669	256	-208	65
1961-62	-18	-12	-1641	-5159	-1394	128	1676	2955	3267	578	-286	-82	-1
1962-63	124	-68	-249	-5449	2559	-501	4043	-18	89	-23	-95	-726	-57
1963-64	-38	394	-3853	-6176	-3033	-842	5970	2507	6282	-100	-98	-180	53
1964-65	156	96	-1104	-555	-10665	-3998	1121	4463	10002	-136	-866	-1103	-160
1965-66	-4957	-677	199	-3875	-314	2032	3318	5989	252	245	66	52	192
1966-67	-141	-302	-906	-3107	-4578	-1901	-155	4487	5933	151	200	-139	-16
1967-68	1374	361	-1299	-3752	100	2047	-3247	5095	1855	-162	-256	241	201
1968-69	-102	0	-3095	-323	-4785	-4140	2219	6619	3367	0	0	-169	-9
1969-70	32	-993	-1575	1510	-7947	-104	-1004	6612	2792	98	128	-333	-3
1970-71	129	-706	-2233	1630	-7142	-4482	-2953	7985	7261	164	160	-670	-22
1971-72	1436	1088	622	2375	-836	2978	-5133	13939	25125	15	-341	303	3467
1972-73	-424	-3195	-2929	-2696	-1837	4547	8021	10135	2737	-828	-2211	-5528	501
1973-74	-1774	1665	-33	-6540	-13248	-7555	-4776	15453	25872	212	-438	-4353	439
1974-75	-2718	-4758	-2649	-4886	-7347	-8242	1413	15363	22339	3023	-390	-8118	288
1975-76	586	-2554	-2553	-7400	-12799	-8932	6405	28774	6505	48	-323	-4101	363
1976-77	-1269	-4607	-5513	-7927	-947	-1016	4928	8934	1613	-3792	-1203	506	-873
1977-78	-1319	-1916	3077	-10675	-7802	-3096	13992	13796	7784	16	-1401	-5427	622
1978-79	83	-4556	-13147	-9992	926	4161	8769	19269	-1081	-4588	1548	-720	43
1979-80	-862	-6922	-6395	-6135	1529	2075	10527	13183	-157	-1978	-1258	-2904	50
1980-81	-953	-4409	-745	-3010	3321	126	10007	2389	-382	-732	-250	-6946	-157
1981-82	-576	-2682	-5231	-12146	9744	-20288	2775	22573	15097	239	-465	-5896	161
1982-83	-1271	-2144	-4282	-5512	-116	-5538	5386	13105	6728	40	-2024	-7242	-250
1983-84	1760	-2625	-6988	-1885	-3393	2466	4687	8906	5046	-338	-1388	-6872	-35
1984-85	682	-2404	-7148	-11237	-9699	-1012	13649	20973	1966	-3748	-3792	-2393	-304
1985-86	661	-1680	-7151	-890	11220	-7959	7123	11690	1320	-147	-400	-9053	316
1986-87	-670	-2099	-6216	-2638	-803	8694	9955	776	2354	-919	-1718	-8092	-116
1987-88	362	-5981	-11329	-5150	194	1960	13971	4051	6619	-215	-5199	-6775	-657
1988-89	-825	-590	-1471	-8880	-6617	6885	8788	14029	6650	-3961	-5384	-10400	-109
MEAN	-317	-1698	-3189	-4680	-2602	-1359	4475	9368	5862	-346	-746	-3085	184

LWG3SS

USGS # 13343598

LOWER GRANITE

River: SNAKE

Drainage Area: 103500 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 107.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										35500	18150	17560	
1928-29	24060	24600	21090	21380	18790	39100	53750	89920	93520	29880	15550	15590	37320
1929-30	18660	23420	27390	20310	30940	33350	70980	74880	60790	21790	15830	16020	34470
1930-31	19900	21450	20790	20230	20260	32650	55160	76140	35910	<u>14580</u>	<u>11000</u>	<u>12780</u>	28440
1931-32	15910	17940	17980	17900	18820	62240	89440	151800	111400	37280	17320	16660	47930
1932-33	18890	26020	23150	22800	19170	34670	64560	91410	167700	37690	18040	17560	45090
1933-34	21700	30140	50490	52650	37230	55730	93360	69810	32620	17060	12930	13460	40600
1934-35	17090	22090	21290	20870	21840	28010	57700	90850	80120	25440	14920	14400	34560
1935-36	<u>15910</u>	17680	<u>16270</u>	20610	18220	38460	114000	146800	77480	22110	15920	16580	43330
1936-37	16580	<u>17020</u>	17370	<u>14950</u>	<u>17960</u>	27570	50610	93230	62500	22160	14810	14470	30810
1937-38	16740	20190	27220	25160	27520	52880	102300	142300	124100	47140	18930	17380	51860
1938-39	21120	22790	24090	23000	23620	53920	80760	102100	46340	23270	14990	15960	37740
1939-40	18200	18460	22030	23900	36610	57190	88940	102700	56720	20080	14180	17880	39690
1940-41	22970	24470	27140	25290	27720	37260	47720	78080	74040	28830	19370	22770	36310
1941-42	26630	33870	46190	29160	33080	34850	95500	96820	98260	39700	19080	18860	47640
1942-43	20090	28440	32080	38720	43760	62080	<u>161200</u>	133000	162600	<u>84820</u>	25880	21140	67730
1943-44	25600	27650	24790	21760	21780	28050	53010	75950	77020	29450	18570	18160	35130
1944-45	19350	22190	19490	26120	33420	33800	51300	118800	111200	36350	19080	19640	42540
1945-46	21930	30480	33840	36420	30740	60580	112400	132700	90830	34750	19740	22600	52300
1946-47	30230	36120	61610	33630	45970	49820	74960	154500	104800	35530	20600	21480	55810
1947-48	29820	33690	35890	41620	37420	37220	86170	186100	185200	47420	25150	21650	63900
1948-49	23750	25850	26350	26360	38270	70260	98490	168100	89900	29610	19010	19580	53020
1949-50	24550	27110	26200	26900	41310	61450	94080	119300	163900	74140	26870	23020	59020
1950-51	31920	39320	42290	39300	61770	54020	106600	146200	102800	45700	24180	20890	59480
1951-52	33130	31560	35970	31950	40490	52520	149000	185000	118300	47250	23220	22150	64170
1952-53	22110	20670	20960	40400	43350	41690	63930	101600	164600	60750	24320	21860	52090
1953-54	22630	23970	26590	26950	37540	39690	74100	131300	103500	52240	24330	22460	48790
1954-55	24770	25100	22200	22050	20780	23330	51980	99740	128600	51520	21550	20070	42670
1955-56	23640	29560	52170	44420	35340	64300	125000	186500	149300	42330	25040	23280	66750
1956-57	27400	28100	30850	23960	36500	66650	86180	199300	127600	35930	21860	22120	58980
1957-58	25560	23570	26550	25630	51050	44460	87790	161400	110500	33570	22890	22380	52880
1958-59	25180	36720	44690	45420	37720	40100	72800	102900	123900	38280	22030	29680	51570
1959-60	<u>45800</u>	40440	31510	24380	32210	53720	82580	95510	102200	30430	21920	21230	48440
1960-61	22530	26590	22770	22170	47400	43120	55500	101500	97890	23870	16510	19740	41500
1961-62	22650	22100	23210	26500	34620	36900	91870	106600	100800	34380	21820	20950	45140
1962-63	34900	35110	39090	25570	53720	37610	54170	103900	113400	38160	21630	22820	48200
1963-64	22590	25680	23160	22900	24110	28900	68320	121900	182400	53350	25740	26340	52010
1964-65	25200	28280	<u>62440</u>	61770	81520	65300	118800	154900	163400	59480	<u>31060</u>	28910	73230
1965-66	28600	29540	30600	32220	29610	40910	61130	81310	57410	23890	17230	18950	37640
1966-67	21270	23600	26940	32740	31310	33530	41820	112500	148400	47100	20270	20450	46660
1967-68	27570	31100	29790	29350	55420	46110	41370	79740	95020	30980	24910	26600	43040
1968-69	31070	38830	33960	55190	43410	58550	119700	149800	90270	33610	20520	21180	58020
1969-70	24940	22530	23990	49570	45380	40950	45390	126700	154000	51570	21840	26440	52730
1970-71	27940	33230	36680	60520	73230	60680	108800	<u>201000</u>	181800	68380	25010	24490	75030
1971-72	33190	34960	34330	46070	58950	<u>129300</u>	94630	160400	187900	50460	24600	24910	73250
1972-73	30980	31380	36440	38720	32010	38250	42030	72480	55900	22570	15120	18980	36260
1973-74	21300	39300	44170	<u>68010</u>	51740	81820	124800	145500	<u>232500</u>	73150	26920	21810	<u>77490</u>
1974-75	23620	25390	26590	31860	33930	54560	77240	138000	182300	81970	28960	24200	60760
1975-76	33460	36730	61660	49310	45150	55520	114600	180500	123900	47060	29850	27280	67110
1976-77	27310	25520	24970	22310	22660	<u>22580</u>	<u>35480</u>	<u>48800</u>	38910	16400	13930	16630	<u>26290</u>
1977-78	21060	25110	53860	35450	39730	60620	91300	112200	113400	55010	23870	26650	54880
1978-79	22680	24170	23670	24690	35560	57820	65820	119700	70600	25220	19940	18220	42370
1979-80	19990	18910	21610	25710	32410	36780	69160	120500	105800	39720	19780	24640	44540
1980-81	21940	26870	41240	36220	46990	37090	59830	93320	117700	34440	18220	18820	45940
1981-82	23760	25670	33970	29560	<u>82240</u>	79550	101800	158700	171300	83510	27910	26810	70180
1982-83	34820	37250	44070	51390	60130	93410	84760	135800	139000	63420	29240	25660	66570
1983-84	33710	<u>44400</u>	42340	57570	47350	83860	117900	165900	192100	68630	29780	<u>29700</u>	76050
1984-85	36800	42590	34470	33780	33070	42800	99850	113900	77240	23740	20700	28940	48970
1985-86	29260	31710	26640	31310	81830	125000	107700	127900	119500	32230	21150	27300	63210
1986-87	33710	35460	32750	28010	28940	43190	54240	66990	<u>32420</u>	19580	15190	15680	33880
1987-88	18600	18580	19200	19160	22630	29490	59320	74870	55840	19310	13020	14110	30310
1988-89	16440	21370	19960	19690	20760	62890	97120	99280	81900	26650	19540	19330	42110
MEAN	24980	28080	31660	32480	38310	50800	81980	121000	111800	40010	20830	21090	50240
MEDIAN	23750	26590	27220	28010	35560	44460	82580	118800	105800	35730	20560	21160	48440

LWG3A

USGS # 13343930

LITTLE GOOSE

River: SNAKE

Drainage Area: 103900 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 70.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										35500	18150	17560	
1928-29	24060	24600	21090	21380	18790	39100	53750	89920	93520	29880	15550	15590	37320
1929-30	18660	23420	27390	20310	30940	33350	70980	74880	60790	21790	15830	16020	34470
1930-31	19900	21450	20790	20230	20260	32650	55160	76140	35910	<u>14580</u>	<u>11000</u>	<u>12780</u>	28440
1931-32	15910	17940	17980	17900	18820	62240	89440	151800	111400	37280	17320	16660	47930
1932-33	18890	26020	23150	22800	19170	34670	64560	91410	167700	37690	18040	17560	45090
1933-34	21700	30140	50490	52650	37230	55730	93360	69810	32620	17060	12930	13460	40600
1934-35	17090	22090	21290	20870	21840	28010	57700	90850	80120	25440	14920	14400	34560
1935-36	<u>15910</u>	17680	<u>16270</u>	20610	18220	38460	114000	146800	77480	22110	15920	16580	43330
1936-37	16580	<u>17020</u>	17370	<u>14950</u>	<u>17960</u>	27570	50610	93230	62500	22160	14810	14470	30810
1937-38	16740	20190	27220	25160	27520	52880	102300	142300	124100	47140	18930	17380	51860
1938-39	21120	22790	24090	23000	23620	53920	80760	102100	46340	23270	14990	15960	37740
1939-40	18200	18460	22030	23900	36610	57190	88940	102700	56720	20080	14180	17880	39690
1940-41	22970	24470	27140	25290	27720	37260	47720	78080	74040	28830	19370	22770	36310
1941-42	26630	33870	46190	29160	33080	34850	95500	96820	98260	39700	19080	18860	47640
1942-43	20090	28440	32080	38720	43760	62080	<u>161200</u>	133000	162600	<u>84820</u>	25880	21140	67730
1943-44	25600	27650	24790	21760	21780	28050	53010	75950	77020	29450	18570	18160	35130
1944-45	19350	22190	19490	26120	33420	33800	51300	118800	111200	36350	19080	19640	42540
1945-46	21930	30480	33840	36420	30740	60580	112400	132700	90830	34750	19740	22600	52300
1946-47	30230	36120	61610	33630	45970	49820	74960	154500	104800	35530	20600	21480	55810
1947-48	29820	33690	35890	41620	37420	37220	86170	186100	185200	47420	25150	21650	63900
1948-49	23750	25850	26350	26360	38270	70260	98490	168100	89900	29610	19010	19580	53020
1949-50	24550	27110	26200	26900	41310	61450	94080	119300	163900	74140	26870	23020	59020
1950-51	31920	39320	42290	39300	61770	54020	106600	146200	102800	45700	24180	20890	59480
1951-52	33130	31560	35970	31950	40490	52520	149000	185000	118300	47250	23220	22150	64170
1952-53	22110	20670	20960	40400	43350	41690	63930	101600	164600	60750	24320	21860	52090
1953-54	22630	23970	26590	26950	37540	39690	74100	131300	103500	52240	24330	22460	48790
1954-55	24770	25100	22200	22050	20780	<u>23330</u>	51980	99740	128600	51520	21550	20070	42670
1955-56	23640	29580	52170	44420	35340	64300	125000	186500	149300	42330	25040	23280	66750
1956-57	27400	28100	30850	23960	36500	66650	86180	<u>199300</u>	127600	35930	21860	22120	58980
1957-58	25560	23570	26550	25630	51050	44460	87790	161400	104000	30200	19210	22590	51760
1958-59	23540	36150	43530	45420	39760	42040	72570	95320	121300	38450	21690	30390	50780
1959-60	<u>46930</u>	40790	32700	28830	33890	50730	77620	94560	102500	29530	22380	21700	48460
1960-61	22310	27170	25780	27630	48670	44780	53450	94310	96410	22200	16260	19950	41430
1961-62	22670	22120	24850	31660	36010	36770	90190	103700	97570	33800	22100	21030	45140
1962-63	34770	35170	39340	31020	51160	38110	50120	103900	113300	38180	21730	23540	48260
1963-64	22630	25290	27020	29070	27140	29740	62350	119400	176100	53450	25840	26520	51960
1964-65	25050	28180	63550	62330	<u>92190</u>	69300	117700	150400	153400	59620	<u>31930</u>	30020	73390
1965-66	33550	30220	30400	36090	29920	38870	57820	75320	57160	23650	17170	18900	37440
1966-67	21410	23910	27850	35850	35890	35430	41980	108100	142500	46950	20070	20590	46680
1967-68	26190	30740	31090	33110	55320	44060	44610	74650	93170	31140	25170	26360	42840
1968-69	31170	38830	37050	55510	48180	62690	117500	143200	86900	33610	20520	21350	58030
1969-70	24910	23530	25560	48060	53330	41060	46400	120100	151200	51470	21710	26780	52730
1970-71	27810	33930	38910	58890	80370	65160	111800	193000	174500	68220	24850	25160	75050
1971-72	31750	33870	33710	43700	59780	126300	99760	146500	162800	50450	24940	24610	69780
1972-73	31400	34570	39370	41340	33800	33640	33940	62260	53120	23370	17300	24470	35720
1973-74	23030	37550	44100	<u>74070</u>	64890	89250	129400	129800	<u>206300</u>	72850	27310	26120	<u>76900</u>
1974-75	26300	30100	29190	36630	41190	62710	75730	122400	159800	78880	29310	32280	60380
1975-76	32830	39230	<u>64110</u>	56600	57880	64360	108000	151500	117300	46960	30120	31350	66660
1976-77	28540	30080	30440	30200	23570	23560	<u>30510</u>	<u>39810</u>	37250	20160	15100	16090	<u>27120</u>
1977-78	22350	26990	50650	46050	47460	63620	77170	98250	105600	54940	25230	32030	54180
1978-79	22560	28690	36780	34640	34540	53570	56950	100300	71600	29760	18350	18900	42260
1979-80	20810	25800	27950	31790	30790	34620	58510	107200	105800	41640	21000	27500	44420
1980-81	22850	31230	41890	39160	43570	36900	49740	90840	118000	35120	18440	25730	46030
1981-82	24290	28300	39120	41640	72300	99720	98840	135900	156100	83200	28330	32670	69920
1982-83	36080	39380	48290	56790	60140	98830	79280	122500	132200	63320	31220	32860	66750
1983-84	31910	<u>46960</u>	49270	59330	50670	81250	113100	156800	186900	68910	31120	<u>36530</u>	75990
1984-85	36080	44940	41560	44990	42720	43740	86050	92740	75150	27440	24460	31290	49210
1985-86	28560	33340	33740	32150	70510	<u>132800</u>	100500	116100	118000	32330	21510	36320	62830
1986-87	34340	37500	38910	30620	29680	34410	44210	66100	<u>29980</u>	20450	16880	23730	33930
1987-88	18200	24530	30480	24280	22380	27470	45260	70700	49130	19470	18180	20850	30910
1988-89	17220	21910	21370	28530	27320	55870	88190	85120	75150	30570	24880	29690	42150
MEAN	25130	28930	33260	34760	39610	51460	79670	116000	108700	40170	21210	22680	50120
MEDIAN	23750	28180	30480	31790	36610	44460	77620	107200	104800	35730	20800	21780	48460

LGS3H

USGS # 13343930

LITTLE GOOSE

River: SNAKE

Drainage Area: 103900 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 70.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70				2550	7310								777
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 13343930

LITTLE GOOSE

River: SNAKE

Drainage Area: 103900 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 70.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	26	6500	3366	3677	-204	1118
1958-59	1633	572	1163	0	-2041	-1946	237	7543	2597	-163	344	-706	794
1959-60	-1133	-349	-1184	-4455	-1884	2988	4961	952	-241	901	-464	-471	-17
1960-61	222	-577	-3018	-5462	-1264	-1661	2056	7229	1485	1669	256	-208	65
1961-62	-18	-12	-1641	-5159	-1394	128	1676	2955	3267	578	-286	-82	-1
1962-63	124	-88	-249	-5449	2559	-501	4043	-18	89	-23	-95	-726	-57
1963-64	-38	394	-3853	-6176	-3033	-842	5970	2507	6282	-100	-98	-180	53
1964-65	156	96	-1104	-555	-10865	-3998	1121	4463	10002	-136	-866	-1103	-160
1965-66	-4957	-677	199	-3875	-314	2032	3318	5989	252	245	66	52	192
1966-67	-141	-302	-906	-3107	-4578	-1901	-155	4487	5933	151	200	-139	-16
1967-68	1374	361	-1299	-3752	100	2047	-3247	5095	1855	-162	-256	241	201
1968-69	-102	0	-3095	-323	-4765	-4140	2219	6619	3367	0	0	-169	-9
1969-70	32	-993	-1575	4060	-637	-104	-1004	6612	2792	98	128	-333	775
1970-71	129	-706	-2233	1630	-7142	-4482	-2953	7985	7261	164	160	-670	-22
1971-72	1436	1088	622	2375	-836	2978	-5133	13939	25125	15	-341	303	3467
1972-73	-424	-3195	-2929	-2696	-1837	4547	8021	10135	2737	-828	-2211	-5528	501
1973-74	-1774	1665	-33	-6540	-13248	-7555	-4776	15453	25872	212	-438	-4353	439
1974-75	-2718	-4758	-2649	-4886	-7347	-8242	1413	15363	22339	3023	-390	-8118	288
1975-76	586	-2554	-2553	-7400	-12799	-8932	6405	28774	6505	48	-323	-4101	363
1976-77	-1269	-4607	-5513	-7927	-947	-1016	4928	8934	1613	-3792	-1203	506	-873
1977-78	-1319	-1916	3077	-10675	-7802	-3096	13992	13796	7784	16	-1401	-5427	622
1978-79	83	-4556	-13147	-9992	926	4161	8769	19269	-1081	-4588	1548	-720	43
1979-80	-862	-6922	-6395	-6135	1529	2075	10527	13183	-157	-1978	-1258	-2904	50
1980-81	-953	-4409	-745	-3010	3321	128	10007	2389	-382	-732	-250	-6946	-157
1981-82	-576	-2682	-5231	-12146	9744	-20288	2775	22573	15097	239	-465	-5896	161
1982-83	-1271	-2144	-4282	-5512	-116	-5538	5386	13105	6728	40	-2024	-7242	-250
1983-84	1760	-2625	-6988	-1885	-3393	2466	4687	8906	5046	-338	-1388	-6872	-35
1984-85	682	-2404	-7148	-11237	-9699	-1012	13649	20973	1966	-3748	-3792	-2393	-304
1985-86	661	-1680	-7151	-890	11220	-7959	7123	11690	1320	-147	-400	-9053	316
1986-87	-670	-2099	-6216	-2638	-803	8694	9955	776	2354	-919	-1718	-8092	-116
1987-88	362	-5981	-11329	-5150	194	1960	13971	4051	6619	-215	-5199	-6775	-657
1988-89	-825	-590	-1471	-8880	-6617	6885	8788	14029	6650	-3961	-5384	-10400	-109
MEAN	-317	-1698	-3189	-4595	-2367	-1359	4475	9368	5862	-346	-746	-3085	208

LGS3SS

USGS # 13343930

LITTLE GOOSE

River: SNAKE

Drainage Area: 103900 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 70.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										35500	18150	17560	
1928-29	24060	24600	21090	21380	18790	39100	53750	89920	93520	29880	15550	15590	37320
1929-30	18660	23420	27390	20310	30940	33350	70980	74880	60790	21790	15830	16020	34470
1930-31	19900	21450	20790	20230	20260	32650	55160	76140	35910	<u>14580</u>	<u>11000</u>	<u>12780</u>	28440
1931-32	15910	17940	17980	17900	18820	62240	89440	151800	111400	37280	17320	16660	47930
1932-33	18890	26020	23150	22800	19170	34670	64560	91410	167700	37690	18040	17560	45090
1933-34	21700	30140	50490	52650	37230	55730	93380	69810	32620	17060	12930	13460	40600
1934-35	17090	22090	21290	20870	21840	28010	57700	90850	80120	25440	14920	14400	34560
1935-36	<u>15910</u>	17680	<u>16270</u>	20610	18220	38460	114000	146800	77480	22110	15920	16580	43330
1936-37	16580	<u>17020</u>	17370	<u>14950</u>	<u>17960</u>	27570	50610	93230	62500	22160	14810	14470	30810
1937-38	16740	20190	27220	25160	27520	52880	102300	142300	124100	47140	18930	17380	51860
1938-39	21120	22790	24090	23000	23620	53920	80760	102100	46340	23270	14990	15960	37740
1939-40	18200	18460	22030	23900	36610	57190	88940	102700	56720	20080	14180	17880	39690
1940-41	22970	24470	27140	25290	27720	37260	47720	78080	74040	28830	19370	22770	36310
1941-42	26630	33870	46190	29160	33080	34850	95500	96820	98260	39700	19080	18860	47640
1942-43	20090	28440	32080	38720	43760	62080	<u>161200</u>	133000	162600	<u>84820</u>	25880	21140	67730
1943-44	25600	27650	24790	21760	21780	28050	53010	75950	77020	29450	18570	18160	35130
1944-45	19350	22190	19490	26120	33420	33800	51300	118800	111200	36350	19080	19640	42540
1945-46	21930	30480	33840	36420	30740	60580	112400	132700	90830	34750	19740	22600	52300
1946-47	30230	36120	61610	33630	45970	49820	74960	154500	104800	35530	20600	21480	55810
1947-48	29820	33690	35890	41620	37420	37220	86170	186100	185200	47420	25150	21650	63900
1948-49	23750	25850	26350	26360	38270	70260	98490	168100	89900	29610	19010	19580	53020
1949-50	24550	27110	26200	26900	41310	61450	94080	119300	163900	74140	26870	23020	59020
1950-51	31920	39320	42290	39300	61770	54020	106600	146200	102800	45700	24180	20890	59480
1951-52	33130	31560	35970	31950	40490	52520	149000	185000	118300	47250	23220	22150	64170
1952-53	22110	20670	20960	40400	43350	41690	63930	101600	164600	60750	24320	21860	52090
1953-54	22630	23970	26590	26950	37540	39690	74100	131300	103500	52240	24330	22460	48790
1954-55	24770	25100	22200	22050	20780	23330	51980	99740	128600	51520	21550	20070	42670
1955-56	23640	29560	52170	44420	35340	64300	125000	186500	149300	42330	25040	23280	66750
1956-57	27400	28100	30850	23960	36500	66650	86180	199300	127600	35930	21860	22120	58980
1957-58	25560	23570	26550	25630	51050	44460	87790	161400	110500	33570	22890	22380	52880
1958-59	25180	36720	44690	45420	37720	40100	72800	102900	123900	38280	22030	29680	51570
1959-60	<u>45800</u>	40440	31510	24380	32210	53720	82580	95510	102200	30430	21920	21230	48440
1960-61	22530	26590	22770	22170	47400	43120	55500	101500	97890	23870	16510	19740	41500
1961-62	22650	22100	23210	26500	34620	36900	91870	106600	100800	34380	21820	20950	45140
1962-63	34900	35110	39090	25570	53720	37610	54170	103900	113400	38160	21630	22820	48200
1963-64	22590	25680	23160	22900	24110	28900	68320	121900	182400	53350	25740	26340	52010
1964-65	25200	28280	<u>62440</u>	61770	81520	65300	118800	154900	163400	59480	<u>31060</u>	28910	73230
1965-66	28600	29540	30600	32220	29610	40910	61130	81310	57410	23890	17230	18950	37640
1966-67	21270	23600	26940	32740	31310	33530	41820	112500	148400	47100	20270	20450	46660
1967-68	27570	31100	29790	29350	55420	46110	41370	79740	95020	30980	24910	26600	43040
1968-69	31070	38830	33960	55190	43410	58550	119700	149800	90270	33610	20520	21180	58020
1969-70	24940	22530	23990	52120	52690	40950	45390	126700	154000	51570	21840	26440	53510
1970-71	27940	33230	36680	60520	73230	60680	108800	<u>201000</u>	181800	68380	25010	24490	75030
1971-72	33190	34960	34330	46070	58950	<u>129300</u>	94630	160400	187900	50460	24600	24910	73250
1972-73	30980	31380	36440	38720	32010	38250	42030	72480	55900	22570	15120	18980	36260
1973-74	21300	39300	44170	<u>68010</u>	51740	81820	124800	145500	<u>232500</u>	73150	26920	21810	<u>77490</u>
1974-75	23620	25390	26590	31860	33930	54560	77240	138000	182300	81970	28960	24200	60760
1975-76	33460	36730	61660	49310	45150	55520	114600	180500	123900	47060	29850	27280	67110
1976-77	27310	25520	24970	22310	22660	<u>22580</u>	<u>35480</u>	<u>48800</u>	38910	16400	13930	16630	<u>26290</u>
1977-78	21060	25110	53860	35450	39730	60620	91300	112200	113400	55010	23870	26650	54880
1978-79	22680	24170	23670	24690	35560	57820	65820	119700	70600	25220	19940	18220	42370
1979-80	19990	18910	21610	25710	32410	36780	69160	120500	105800	39720	19780	24640	44540
1980-81	21940	26870	41240	36220	46990	37090	59830	93320	117700	34440	18220	18820	45940
1981-82	23760	25670	33970	29560	<u>82240</u>	79550	101800	158700	171300	83510	27910	26810	70180
1982-83	34820	37250	44070	51390	60130	93410	84760	135800	139000	63420	29240	25660	66570
1983-84	33710	<u>44400</u>	42340	57570	47350	83860	117900	165900	192100	68630	29780	<u>29700</u>	76050
1984-85	36800	42590	34470	33780	33070	42800	99850	113900	77240	23740	20700	28940	48970
1985-86	29260	31710	26640	31310	81830	125000	107700	127900	119500	32230	21150	27300	63210
1986-87	33710	35460	32750	28010	28940	43190	54240	66990	<u>32420</u>	19580	15190	15680	33880
1987-88	18600	18580	19200	19160	22630	29490	59320	74870	55840	19310	13020	14110	30310
1988-89	16440	21370	19960	19690	20760	62890	97120	99280	81900	26650	19540	19330	42110
MEAN	24980	28080	31660	32530	38430	50800	81980	121000	111800	40010	20830	21090	50250
MEDIAN	23750	26590	27220	28010	35560	44460	82580	118800	105800	35730	20560	21160	48440

LGS3A

USGS # 13352595

LOWER MONUMENTAL

River: SNAKE

Drainage Area: 108500 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 41.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										36220	17980	17000	
1928-29	24230	24840	21690	21900	21100	40820	54890	90190	93840	30570	15280	14950	37890
1929-30	19040	23640	28140	20770	33800	34980	71970	75460	61960	22430	15570	15400	35190
1930-31	20230	21650	21390	20680	22640	34270	56290	76690	37730	<u>15180</u>	<u>10570</u>	<u>12030</u>	29130
1931-32	16390	18100	18510	18220	21130	64330	90260	150800	111300	38010	17120	16060	48390
1932-33	19260	26270	23800	23400	21500	36320	65610	91640	166100	38420	17860	17000	45540
1933-34	21980	30440	51770	54950	40370	57720	94150	70500	34520	17670	12570	12740	41610
1934-35	17530	22300	21900	21360	24290	29550	58810	91100	80790	26100	14630	13720	35170
1935-36	<u>16390</u>	17830	<u>16760</u>	21090	20500	40170	114800	145900	78220	22750	15670	15980	43810
1936-37	17030	<u>17160</u>	17890	<u>15100</u>	<u>20230</u>	29110	51780	93430	63630	22800	14520	13790	31410
1937-38	17190	20370	27960	25900	30220	54820	103000	141500	123600	47930	18790	16810	52370
1938-39	21400	23000	24760	23610	26150	55880	81660	102100	47890	23920	14700	15340	38430
1939-40	18590	18620	22650	24560	39720	59200	89770	102700	58000	20710	13860	17330	40420
1940-41	23180	24700	27880	26030	30430	38950	48920	78590	74870	29510	19240	22410	37050
1941-42	26700	34220	47370	30120	36030	36500	96270	96940	98460	40450	18940	18350	48320
1942-43	20410	28720	32940	40230	47190	64170	<u>161400</u>	132400	161100	<u>85840</u>	25990	20720	68330
1943-44	25710	27920	25480	22300	24220	29590	54160	76510	77770	30140	18410	17620	35790
1944-45	19700	22400	20060	26910	36390	35440	52470	118500	111100	37080	18940	19160	43150
1945-46	22180	30790	34740	37800	33590	62640	113000	132100	91220	35470	19630	22240	52980
1946-47	30170	36490	63140	34850	49500	51710	75910	153400	104800	36250	20520	21070	56510
1947-48	29770	34030	36830	43290	40570	38910	87020	184300	183100	48210	25230	21250	64320
1948-49	23930	26100	27070	27160	41460	72480	99230	166700	90310	30300	18870	19100	53600
1949-50	24700	27380	26920	27730	44630	63530	94860	118900	162400	75090	27010	22670	59590
1950-51	31790	39730	43380	40840	66010	55980	107300	145300	102900	46480	24220	20460	60240
1951-52	32960	31880	36910	33070	43780	54460	149300	183300	118000	48040	23230	21770	64670
1952-53	22350	20860	21560	42000	46770	43450	64980	101600	163100	61620	24370	21470	52730
1953-54	22850	24200	27320	27790	40690	41420	75060	130700	103600	53060	24380	22090	49430
1954-55	24910	25340	22830	22610	23180	24800	53140	99800	128000	52340	21500	19610	43190
1955-56	23830	29860	53490	46250	38390	66420	125500	184700	148200	43090	25120	22940	67320
1956-57	27440	28380	31680	24630	39610	68810	87030	<u>197300</u>	127000	36650	21820	21740	59430
1957-58	25670	23790	27280	26390	54810	46270	88630	160000	104000	30910	19220	22210	52330
1958-59	23660	36530	44670	47310	42920	43780	73540	95310	120800	39190	21660	30300	51560
1959-60	<u>46270</u>	41220	33540	29520	36790	52690	78510	94710	102600	30220	22340	21280	49080
1960-61	22540	27430	26420	28190	52270	46570	54580	94330	96620	22850	16030	19470	42110
1961-62	22890	22330	25500	32470	39040	38460	90150	105600	98660	34570	22330	18660	45820
1962-63	34230	35490	40760	32000	56540	39070	51630	105600	112900	39200	21660	23340	49230
1963-64	22670	25720	27380	30360	28850	31370	65320	119800	175500	56440	26160	26830	52940
1964-65	25710	28670	64750	65060	<u>96110</u>	74120	115000	152200	154800	63240	<u>33800</u>	30850	75110
1965-66	33390	30800	31540	37330	32660	40620	62910	76500	60390	26170	17770	19010	39100
1966-67	21770	24940	28710	36200	38170	36920	44070	107900	143500	49540	20600	20380	47690
1967-68	26280	31290	31450	34470	57500	47110	46760	75080	94800	31580	25450	26370	43870
1968-69	31040	39450	37820	55070	44660	65660	120000	140100	87250	33790	19370	20480	57900
1969-70	24530	22990	25630	46000	47910	42510	47040	118200	148500	51370	21250	26030	51760
1970-71	27630	34020	38770	60390	82350	67350	111700	187600	171000	69020	24080	24600	74700
1971-72	31440	34010	34170	45400	63800	129000	98900	143300	159000	50310	24960	23670	69770
1972-73	31830	34140	39910	43910	34050	35460	33470	59680	51230	23270	17750	24530	35780
1973-74	23440	38260	48400	<u>79610</u>	68880	90230	130500	130600	<u>202800</u>	73990	26340	25580	<u>78070</u>
1974-75	26500	30670	29930	38430	43200	65330	74740	120900	156400	77340	29450	33080	60490
1975-76	33060	39650	<u>65880</u>	59470	58660	66390	111300	152700	117100	48170	29640	30710	67710
1976-77	28810	30120	32100	29910	24360	<u>23720</u>	<u>30010</u>	<u>39820</u>	37760	18420	14050	16030	<u>27100</u>
1977-78	22730	27240	50920	47690	48490	64610	78250	100300	106200	55140	26070	31780	54940
1978-79	21990	28000	36630	34310	39440	55340	57270	100300	71870	29000	17970	17830	42500
1979-80	21530	26730	27900	33470	31510	35960	57560	107900	107500	41350	20310	27530	44910
1980-81	23760	31180	42600	40540	45550	37200	49780	89960	121400	34900	17650	25240	46540
1981-82	25170	27710	38760	41820	77390	102800	99780	134200	153200	82090	27770	32740	70140
1982-83	34910	38450	48170	56600	61590	101600	80710	121700	130700	63550	30400	32110	66710
1983-84	31290	<u>46560</u>	48330	61060	51000	81700	113200	152500	183900	65630	29820	<u>35820</u>	74980
1984-85	35310	45070	41930	43300	44350	44910	86300	90010	73610	25560	23280	31780	48710
1985-86	28350	33500	33030	33550	72810	<u>129100</u>	99320	112800	115700	29430	19410	35180	61660
1986-87	33890	36330	38140	30030	30660	35240	41720	63320	<u>27530</u>	19120	15560	23250	32930
1987-88	17840	24390	29600	24270	22160	27200	43280	67150	46680	17310	17060	20400	29780
1988-89	17540	22490	21040	29040	27730	58460	85240	82890	73310	29200	22880	29170	41580
MEAN	25240	29120	33910	35710	41970	53170	80320	115300	108400	40550	20950	22240	50550
MEDIAN	23930	28000	31540	33070	39720	46570	78510	107900	104800	36450	20420	21380	49080

LMN3H

USGS # 13352595 **LOWER MONUMENTAL**
 Monthly mean storage change, at site, during initial fill, in cfs

River: SNAKE

Drainage Area: 108500 Sq. Mi.
 River Mile: 41.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69				2440	4050								518
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 13352595

LOWER MONUMENTAL

River: SNAKE

Drainage Area: 108500 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 41.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	26	6500	3366	3677	-204	1118
1958-59	1633	572	1163	0	-2041	-1946	237	7543	2597	-163	344	-706	794
1959-60	-1133	-349	-1184	-4455	-1684	2988	4961	952	-241	901	-464	-471	-17
1960-61	222	-577	-3018	-5462	-1264	-1661	2056	7229	1485	1669	256	-208	65
1961-62	-18	-12	-1641	-5159	-1394	128	1676	2955	3267	578	-286	-82	-1
1962-63	124	-68	-249	-5449	2559	-501	4043	-18	89	-23	-95	-726	-57
1963-64	-38	394	-3853	-6176	-3033	-842	5970	2507	6282	-100	-98	-180	53
1964-65	156	96	-1104	-555	-10665	-3998	1121	4463	10002	-136	-866	-1103	-160
1965-66	-4957	-677	199	-3875	-314	2032	3318	5989	252	245	66	52	192
1966-67	-141	-302	-906	-3107	-4578	-1901	-155	4487	5933	151	200	-139	-16
1967-68	1374	361	-1299	-3752	100	2047	-3247	5095	1855	-162	-256	241	201
1968-69	-102	0	-3095	2117	-715	-4140	2219	6619	3367	0	0	-169	509
1969-70	32	-993	-1575	4060	-637	-104	-1004	6612	2792	98	128	-333	775
1970-71	129	-706	-2233	1630	-7142	-4482	-2953	7985	7261	164	160	-670	-22
1971-72	1436	1088	622	2375	-836	2978	-5133	13939	25125	15	-341	303	3467
1972-73	-424	-3195	-2929	-2696	-1837	4547	8021	10135	2737	-828	-2211	-5528	501
1973-74	-1774	1665	-33	-6540	-13248	-7555	-4776	15453	25872	212	-438	-4353	439
1974-75	-2718	-4758	-2649	-4886	-7347	-8242	1413	15363	22339	3023	-390	-8118	288
1975-76	586	-2554	-2553	-7400	-12799	-8932	6405	28774	6505	48	-323	-4101	363
1976-77	-1269	-4607	-5513	-7927	-947	-1016	4928	8934	1613	-3792	-1203	506	-873
1977-78	-1319	-1916	3077	-10675	-7802	-3096	13992	13796	7784	16	-1401	-5427	622
1978-79	83	-4556	-13147	-9992	926	4161	8769	19269	-1081	-4588	1548	-720	43
1979-80	-862	-6922	-6395	-6135	1529	2075	10527	13183	-157	-1978	-1258	-2904	50
1980-81	-953	-4409	-745	-3010	3321	126	10007	2389	-382	-732	-250	-6946	-157
1981-82	-576	-2682	-5231	-12146	9744	-20288	2775	22573	15097	239	-465	-5896	161
1982-83	-1271	-2144	-4282	-5512	-116	-5538	5386	13105	6728	40	-2024	-7242	-250
1983-84	1760	-2625	-6988	-1885	-3393	2466	4687	8906	5046	-338	-1388	-6872	-35
1984-85	682	-2404	-7148	-11237	-9699	-1012	13649	20973	1966	-3748	-3792	-2393	-304
1985-86	661	-1680	-7151	-890	11220	-7959	7123	11690	1320	-147	-400	-9053	316
1986-87	-670	-2099	-6216	-2638	-803	8694	9955	776	2354	-919	-1718	-8092	-116
1987-88	362	-5981	-11329	-5150	194	1960	13971	4051	6619	-215	-5199	-6775	-657
1988-89	-825	-590	-1471	-8880	-6617	6885	8788	14029	6650	-3961	-5384	-10400	-109
MEAN	-317	-1698	-3189	-4514	-2236	-1359	4475	9368	5862	-346	-746	-3085	224

LMN3SS

USGS # 13352595

LOWER MONUMENTAL

River: SNAKE

Drainage Area: 108500 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 41.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										36220	17980	17000	
1928-29	24230	24840	21690	21900	21100	40820	54890	90190	93840	30570	15280	14950	37890
1929-30	19040	23640	28140	20770	33800	34980	71970	75460	61960	22430	15570	15400	35190
1930-31	20230	21650	21390	20680	22640	34270	56290	76690	37730	15180	<u>10570</u>	<u>12030</u>	29130
1931-32	16390	18100	18510	18220	21130	64330	90260	150800	111300	38010	17120	16060	48390
1932-33	19260	26270	23800	23400	21500	36320	65610	91640	166100	38420	17860	17000	45540
1933-34	21960	30440	51770	54950	40370	57720	94150	70500	34520	17670	12570	12740	41610
1934-35	17530	22300	21900	21360	24290	29550	58810	91100	80790	26100	14630	13720	35170
1935-36	<u>16390</u>	17830	<u>16760</u>	21090	20500	40170	114600	145900	78220	22750	15670	15980	43810
1936-37	17030	<u>17160</u>	17890	<u>15100</u>	<u>20230</u>	29110	51780	93430	63630	22800	14520	13790	31410
1937-38	17190	20370	27960	25900	30220	54820	103000	141500	123600	47930	18790	16810	52370
1938-39	21400	23000	24760	23610	26150	55880	81660	102100	47890	23920	14700	15340	38430
1939-40	18590	18620	22650	24560	39720	59200	89770	102700	58000	20710	13860	17330	40420
1940-41	23180	24700	27880	26030	30430	38950	48920	78590	74870	29510	19240	22410	37050
1941-42	26700	34220	47370	30120	36030	36500	96270	96940	98460	40450	18940	18350	48320
1942-43	20410	28720	32940	40230	47190	64170	<u>161400</u>	132400	161100	<u>85840</u>	25990	20720	68330
1943-44	25710	27920	25480	22300	24220	29590	54160	76510	77770	30140	18410	17620	35790
1944-45	19700	22400	20060	26910	36390	35440	52470	118500	111100	37080	18940	19160	43150
1945-46	22180	30790	34740	37800	33590	62640	113000	132100	91220	35470	19630	22240	52980
1946-47	30170	36490	63140	34850	49500	51710	75910	153400	104800	36250	20520	21070	56510
1947-48	29770	34030	36830	43290	40570	38910	87020	184300	183100	48210	25230	21250	64320
1948-49	23930	26100	27070	27160	41460	72480	99230	166700	90310	30300	18870	19100	53600
1949-50	24700	27380	26920	27730	44630	63530	94860	118900	162400	75090	27010	22670	59590
1950-51	31790	39730	43380	40840	66010	55980	107300	145300	102900	46480	24220	20460	60240
1951-52	32960	31880	36910	33070	43780	54460	149300	183300	118000	48040	23230	21770	64670
1952-53	22350	20860	21560	42000	46770	43450	64980	101600	163100	61620	24370	21470	52730
1953-54	22850	24200	27320	27790	40690	41420	75060	130700	103600	53060	24380	22090	49430
1954-55	24910	25340	22830	22610	23180	24800	53140	99800	128000	52340	21500	19610	43190
1955-56	23830	29860	53490	46250	38390	66420	125500	184700	148200	43090	25120	22940	67320
1956-57	27440	28380	31680	24630	39610	68810	87030	<u>197300</u>	127000	36650	21820	21740	59430
1957-58	25670	23790	27280	26390	54810	46270	88630	160000	110500	34280	22900	22010	53450
1958-59	25290	37100	45830	47310	40880	41830	73780	102900	123400	39030	22000	29590	52350
1959-60	<u>45140</u>	40870	32360	25070	35110	55680	83470	95660	102400	31120	21880	20810	49060
1960-61	22760	26850	23400	22730	51010	44910	56640	101600	98110	24520	16290	19260	42180
1961-62	22870	22320	23860	27310	37650	38590	91830	108500	101900	35150	22050	18580	45820
1962-63	34360	35420	40510	26550	59100	38570	55670	105600	113000	39180	21570	22610	49180
1963-64	22630	26110	23520	24190	25820	30530	71290	122300	181700	56340	26060	26650	53000
1964-65	25870	28760	<u>63640</u>	64510	85450	70120	116100	156700	164800	63110	<u>32940</u>	<u>29740</u>	74950
1965-66	28440	30120	31740	33450	32350	42650	66230	82490	60640	26410	17840	19060	39290
1966-67	21630	24640	27800	33090	33590	35020	43910	112400	149500	49690	20800	20240	47680
1967-68	27650	31650	30150	30720	57600	49150	43510	80150	96650	31420	25190	26610	44070
1968-69	30940	39450	34720	57180	43940	61520	122300	146700	90620	33790	19370	20310	58410
1969-70	24560	22000	24050	50060	47280	42400	46030	124800	151300	51470	21380	25690	52530
1970-71	27760	33320	36540	62020	75200	62870	108700	195600	178300	69190	24240	23930	74680
1971-72	32870	35100	34790	47770	62960	<u>132000</u>	93770	157200	184100	50320	24620	23970	73230
1972-73	31400	30950	36980	41210	32210	40000	41490	69820	53970	22450	15530	19000	36280
1973-74	21660	39920	48370	<u>73070</u>	55630	82680	125800	146000	<u>228700</u>	74210	25900	21230	<u>78510</u>
1974-75	23790	25910	27280	33550	35850	57090	76150	136300	178700	80360	29060	24970	60780
1975-76	33650	37100	63330	52070	45860	57460	117700	181500	123600	48220	29320	26610	68070
1976-77	27540	25510	26590	21980	23410	<u>22710</u>	<u>34930</u>	<u>48760</u>	39370	<u>14630</u>	12850	16540	<u>26230</u>
1977-78	21410	25320	54000	37010	40690	61510	92240	114100	114000	55160	24670	26350	55560
1978-79	22080	23450	23480	24310	40360	59500	66040	119500	70790	24410	19520	17110	42550
1979-80	20670	19800	21510	27340	33040	38030	68090	121100	107300	39380	19060	24630	44960
1980-81	22800	26770	41850	37530	48870	37320	59790	92350	121000	34160	17400	18300	46390
1981-82	24590	25030	33530	29670	<u>87140</u>	82490	102500	156700	168300	82330	27300	26850	70300
1982-83	33640	36310	43890	51090	61470	96050	86100	134800	137500	63590	28370	24860	66460
1983-84	33050	<u>43940</u>	41340	59170	47610	84170	117900	161400	188900	65290	28430	28940	74940
1984-85	35990	42670	34780	32060	34650	43900	99950	111000	75580	21810	19490	29390	48400
1985-86	29010	31820	25880	32660	84030	121100	106400	124500	117000	29280	19010	26130	61970
1986-87	33220	34230	31920	27390	29860	43930	51670	64100	<u>29880</u>	18200	13840	15160	32810
1987-88	18200	18410	18270	19120	22350	29160	57250	71200	53300	17090	11860	13630	29120
1988-89	16710	21900	19570	20160	21110	65350	94020	96920	79960	25240	17500	18770	41470
MEAN	25080	28260	32290	33490	40840	52480	82590	120300	111400	40370	20560	20650	50670
MEDIAN	23930	26770	27960	27790	39610	46270	83470	118500	107300	36450	19570	20590	49060

LMN3A

USGS # 13352980

ICE HARBOR

River: SNAKE

Drainage Area: 108500 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 9.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										36220	17980	17000	
1928-29	24230	24840	21690	21900	21100	40820	54890	90190	93840	30570	15280	14950	37890
1929-30	19040	23640	28140	20770	33800	34980	71970	75460	61960	22430	15570	15400	35190
1930-31	20230	21650	21390	20680	22640	34270	56290	76690	37730	<u>15180</u>	<u>10570</u>	<u>12030</u>	29130
1931-32	16390	18100	18510	18220	21130	64330	90260	150800	111300	38010	17120	16060	48390
1932-33	19260	26270	23800	23400	21500	36320	65610	91640	166100	38420	17860	17000	45540
1933-34	21960	30440	51770	54950	40370	57720	94150	70500	34520	17670	12570	12740	41610
1934-35	17530	22300	21900	21360	24290	29550	58810	91100	80790	26100	14630	13720	35170
1935-36	<u>16390</u>	17830	<u>16760</u>	21090	20500	40170	114600	145900	78220	22750	15670	15980	43810
1936-37	17030	<u>17160</u>	17890	<u>15100</u>	<u>20230</u>	29110	51780	93430	63630	22800	14520	13790	31410
1937-38	17190	20370	27960	25900	30220	54820	103000	141500	123600	47930	18790	16810	52370
1938-39	21400	23000	24760	23610	26150	55880	81660	102100	47890	23920	14700	15340	38430
1939-40	18590	18620	22650	24560	39720	59200	89770	102700	58000	20710	13860	17330	40420
1940-41	23180	24700	27880	26030	30430	38950	48920	78590	74870	29510	19240	22410	37050
1941-42	26700	34220	47370	30120	36030	36500	96270	96940	98460	40450	18940	18350	48320
1942-43	20410	28720	32940	40230	47190	64170	<u>161400</u>	132400	161100	<u>85840</u>	25990	20720	68330
1943-44	25710	27920	25480	22300	24220	29590	54160	76510	77770	30140	18410	17620	35790
1944-45	19700	22400	20060	26910	36390	35440	52470	118500	111100	37080	18940	19160	43150
1945-46	22180	30790	34740	37800	33590	62640	113000	132100	91220	35470	19630	22240	52980
1946-47	30170	36490	63140	34850	49500	51710	75910	153400	104800	36250	20520	21070	56510
1947-48	29770	34030	36830	43290	40570	38910	87020	184300	183100	48210	25230	21250	64320
1948-49	23930	26100	27070	27160	41460	72480	99230	166700	90310	30300	18870	19100	53600
1949-50	24700	27380	26920	27730	44630	63530	94860	118900	162400	75090	27010	22670	59590
1950-51	31790	39730	43380	40840	66010	55980	107300	145300	102900	46480	24220	20460	60240
1951-52	32960	31880	36910	33070	43780	54460	149300	183300	118000	48040	23230	21770	64670
1952-53	22350	20860	21560	42000	46770	43450	64980	101600	163100	61620	24370	21470	52730
1953-54	22850	24200	27320	27790	40690	41420	75060	130700	103600	53060	24380	22090	49430
1954-55	24910	25340	22830	22610	23180	24800	53140	99800	128000	52340	21500	19610	43190
1955-56	23830	29860	53490	46250	38390	66420	125500	184700	148200	43090	25120	22940	67320
1956-57	27440	28380	31680	24630	39610	68810	87030	<u>197300</u>	127000	36650	21820	21740	59430
1957-58	25670	23790	27280	26390	54810	46270	88630	160000	104000	30910	19220	22210	52330
1958-59	23660	36530	44670	47310	42920	43780	73540	95310	120800	39190	21660	30300	51560
1959-60	<u>46270</u>	41220	33540	29520	36790	52690	78510	94710	102600	30220	22340	21280	49080
1960-61	22540	27430	26420	28190	52270	46570	54580	94330	96620	22850	16030	19470	42110
1961-62	22890	20680	23810	30070	39040	38460	89740	105600	98660	34570	22330	18660	45300
1962-63	34230	35490	40760	32000	56540	39070	51630	105600	112900	39200	21660	23340	49230
1963-64	22670	25720	27380	30360	28850	31370	65320	119800	175500	56440	26160	26830	52940
1964-65	25710	28670	64750	65060	<u>96110</u>	74120	115000	152200	154800	63240	<u>33800</u>	30850	75110
1965-66	33390	30800	31540	37330	32860	40620	62910	76500	60390	26170	17770	19010	39100
1966-67	21770	24940	28710	36200	38170	36920	44070	107900	143500	49540	20600	20380	47690
1967-68	26280	31290	31450	34470	57500	47110	46760	75060	94800	31580	25450	26370	43870
1968-69	31040	39450	37820	55070	44660	65660	120000	140100	87250	33790	19370	20480	57900
1969-70	24530	22990	25630	46000	47910	42510	47040	118200	148500	51370	21250	26030	51760
1970-71	27630	34020	38770	60390	82350	67350	111700	187600	171000	69020	24080	24600	74700
1971-72	31440	34010	34170	45400	63800	129000	98900	143300	159000	50310	24960	23670	69770
1972-73	31830	34140	39910	43910	34050	35460	33470	59680	51230	23270	17750	24530	35780
1973-74	23440	38260	48400	<u>79610</u>	68880	90230	130500	130600	<u>202600</u>	73990	26340	25580	<u>78070</u>
1974-75	26500	30670	29930	38430	43200	65330	74740	120900	156400	77340	29450	33080	60490
1975-76	33060	39650	<u>65880</u>	59470	58660	66390	111300	152700	117100	48170	29640	30710	67710
1976-77	28810	30120	32100	29910	24360	<u>23720</u>	<u>30010</u>	<u>39820</u>	37760	18420	14050	16030	<u>27100</u>
1977-78	22730	27240	50920	47690	48490	64610	78250	100300	106200	55140	26070	31780	54940
1978-79	21990	28000	36630	34310	39440	55340	57270	100300	71870	29000	17970	17830	42500
1979-80	21530	26730	27900	33470	31510	35960	57560	107900	107500	41350	20310	27530	44910
1980-81	23760	31180	42600	40540	45550	37200	49780	89960	121400	34900	17650	25240	46540
1981-82	25170	27710	38760	41820	77390	102800	99760	134200	153200	82090	27770	32740	70140
1982-83	34910	38450	48170	58600	61590	101600	80710	121700	130700	63550	30400	32110	66710
1983-84	31290	<u>46560</u>	48330	61060	51000	81700	113200	152500	183900	65630	29820	<u>35820</u>	74980
1984-85	35310	45070	41930	43300	44350	44910	86300	90010	73610	25560	23280	31780	48710
1985-86	28350	33500	33030	33550	72810	<u>129100</u>	99320	112800	115700	29430	19410	35180	61660
1986-87	33890	36330	38140	30030	30660	35240	41720	63320	<u>27530</u>	19120	15560	23250	32930
1987-88	17840	24390	29600	24270	22160	27200	43280	67150	46680	17310	17060	20400	29780
1988-89	17540	22490	21040	29040	27730	58460	85240	82890	73310	29200	22880	29170	41580
MEAN	25240	29090	33880	35670	41970	53170	80310	115300	108400	40550	20950	22240	50540
MEDIAN	23930	28000	31540	33070	39720	46570	78510	107900	104800	36450	20420	21380	49080

IHR3H

USGS # 13352980

ICE HARBOR

River: SNAKE

Drainage Area: 108500 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 9.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62		1650	1694	2397			413						517
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 13352980

ICE HARBOR

River: SNAKE

Drainage Area: 108500 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cubic feet per second

River Mile: 9.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	26	6500	3366	3677	-204	1118
1958-59	1633	572	1163	0	-2041	-1946	237	7543	2597	-163	344	-706	794
1959-60	-1133	-349	-1184	-4455	-1684	2988	4961	952	-241	901	-464	-471	-17
1960-61	222	-577	-3018	-5462	-1264	-1661	2056	7229	1485	1669	256	-208	65
1961-62	-18	1638	53	-2762	-1394	128	2089	2955	3267	578	-286	-82	516
1962-63	124	-68	-249	-5449	2559	-501	4043	-18	89	-23	-95	-726	-57
1963-64	-38	394	-3853	-6176	-3033	-842	5970	2507	6282	-100	-98	-180	53
1964-65	156	96	-1104	-555	-10665	-3998	1121	4463	10002	-136	-866	-1103	-180
1965-66	-4957	-677	199	-3875	-314	2032	3318	5989	252	245	66	52	192
1966-67	-141	-302	-906	-3107	-4578	-1901	-155	4487	5933	151	200	-139	-16
1967-68	1374	361	-1299	-3752	100	2047	-3247	5095	1855	-162	-256	241	201
1968-69	-102	0	-3095	2117	-715	-4140	2219	6619	3367	0	0	-169	509
1969-70	32	-993	-1575	4060	-637	-104	-1004	6612	2792	98	128	-333	775
1970-71	129	-706	-2233	1630	-7142	-4482	-2953	7985	7261	164	160	-670	-22
1971-72	1436	1088	622	2375	-836	2978	-5133	13939	25125	15	-341	303	3467
1972-73	-424	-3195	-2929	-2696	-1837	4547	8021	10135	2737	-828	-2211	-5528	501
1973-74	-1774	1665	-33	-6540	-13248	-7555	-4776	15453	25872	212	-438	-4353	439
1974-75	-2718	-4758	-2649	-4886	-7347	-8242	1413	15363	22339	3023	-390	-8118	288
1975-76	586	-2554	-2553	-7400	-12799	-8932	6405	28774	6505	48	-323	-4101	363
1976-77	-1269	-4607	-5513	-7927	-947	-1016	4928	8934	1613	-3792	-1203	506	-873
1977-78	-1319	-1916	3077	-10675	-7802	-3096	13992	13796	7784	16	-1401	-5427	622
1978-79	83	-4556	-13147	-9992	926	4161	8769	19269	-1081	-4588	1548	-720	43
1979-80	-862	-6922	-6395	-6135	1529	2075	10527	13183	-157	-1978	-1258	-2904	50
1980-81	-953	-4409	-745	-3010	3321	126	10007	2389	-382	-732	-250	-6946	-157
1981-82	-576	-2682	-5231	-12146	9744	-20288	2775	22573	15097	239	-465	-5896	161
1982-83	-1271	-2144	-4282	-5512	-116	-5538	5386	13105	6728	40	-2024	-7242	-250
1983-84	1760	-2625	-6988	-1885	-3393	2466	4687	8906	5046	-338	-1388	-6872	-35
1984-85	682	-2404	-7148	-11237	-9699	-1012	13649	20973	1966	-3748	-3792	-2393	-304
1985-86	661	-1680	-7151	-890	11220	-7959	7123	11690	1320	-147	-400	-9053	316
1986-87	-670	-2099	-6216	-2638	-803	8694	9955	776	2354	-919	-1718	-8092	-116
1987-88	362	-5981	-11329	-5150	194	1960	13971	4051	6619	-215	-5199	-6775	-657
1988-89	-825	-590	-1471	-8880	-6617	6885	8788	14029	6650	-3961	-5384	-10400	-109
MEAN	-317	-1645	-3135	-4434	-2236	-1359	4488	9368	5862	-346	-746	-3085	241

IHR3SS

USGS # 13352980

ICE HARBOR

River: SNAKE

Drainage Area: 108500 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 9.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										36220	17980	17000	
1928-29	24230	24840	21690	21900	21100	40820	54890	90190	93840	30570	15280	14950	37890
1929-30	19040	23640	28140	20770	33800	34980	71970	75460	61960	22430	15570	15400	35190
1930-31	20230	21650	21390	20680	22640	34270	56290	76690	37730	15180	<u>10570</u>	<u>12030</u>	29130
1931-32	16390	18100	18510	18220	21130	64330	90260	150800	111300	38010	17120	16060	48390
1932-33	19260	26270	23800	23400	21500	36320	65610	91640	166100	38420	17860	17000	45540
1933-34	21960	30440	51770	54950	40370	57720	94150	70500	34520	17670	12570	12740	41610
1934-35	17530	22300	21900	21360	24290	29550	58810	91100	80790	26100	14630	13720	35170
1935-36	<u>16390</u>	<u>17830</u>	<u>16760</u>	21090	20500	40170	114600	145900	78220	22750	15670	15980	43810
1936-37	17030	<u>17160</u>	17890	<u>15100</u>	<u>20230</u>	29110	51780	93430	63630	22800	14520	13790	31410
1937-38	17190	20370	27960	25900	30220	54820	103000	141500	123600	47930	18790	16810	52370
1938-39	21400	23000	24760	23610	26150	55880	81660	102100	47890	23920	14700	15340	38430
1939-40	18590	18620	22650	24560	39720	59200	89770	102700	58000	20710	13860	17330	40420
1940-41	23180	24700	27880	26030	30430	38950	48920	78590	74870	29510	19240	22410	37050
1941-42	26700	34220	47370	30120	36030	36500	96270	96940	98460	40450	18940	18350	48320
1942-43	20410	28720	32940	40230	47190	64170	<u>161400</u>	132400	161100	<u>85840</u>	25990	20720	68330
1943-44	25710	27920	25480	22300	24220	29590	54160	76510	77770	30140	18410	17620	35790
1944-45	19700	22400	20060	26910	36390	35440	52470	118500	111100	37080	18940	19160	43150
1945-46	22180	30790	34740	37800	33590	62640	113000	132100	91220	35470	19630	22240	52980
1946-47	30170	36490	63140	34850	49500	51710	75910	153400	104800	36250	20520	21070	56510
1947-48	29770	34030	36830	43290	40570	38910	87020	184300	183100	48210	25230	21250	64320
1948-49	23930	26100	27070	27160	41460	72480	99230	166700	90310	30300	18870	19100	53600
1949-50	24700	27380	26920	27730	44630	63530	94860	118900	162400	75090	27010	22670	59590
1950-51	31790	39730	43380	40840	66010	55980	107300	145300	102900	46480	24220	20460	60240
1951-52	32960	31880	36910	33070	43780	54460	149300	183300	118000	48040	23230	21770	64670
1952-53	22350	20860	21560	42000	46770	43450	64980	101600	163100	61620	24370	21470	52730
1953-54	22850	24200	27320	27790	40690	41420	75080	130700	103600	53060	24380	22090	49430
1954-55	24910	25340	22830	22610	23180	24800	53140	99800	128000	52340	21500	19610	43190
1955-56	23830	29860	53490	46250	38390	66420	125500	184700	148200	43090	25120	22940	67320
1956-57	27440	28380	31680	24630	39610	68810	87030	<u>197300</u>	127000	36650	21820	21740	59430
1957-58	25670	23790	27280	26390	54810	46270	88630	160000	110500	34280	22900	22010	53450
1958-59	25290	37100	45830	47310	40880	41830	73780	102900	123400	39030	22000	29590	52350
1959-60	<u>45140</u>	40870	32360	25070	35110	55680	83470	95660	102400	31120	21880	20810	49060
1960-61	22760	26850	23400	22730	51010	44910	56640	101600	98110	24520	16290	19260	42180
1961-62	22870	23970	25550	29710	37650	38590	92240	108500	101900	35150	22050	18580	46330
1962-63	34360	35420	40510	26550	59100	38570	55670	105600	113000	39180	21570	22610	49180
1963-64	22630	26110	23520	24190	25820	30530	71290	122300	181700	56340	26060	26650	53000
1964-65	25870	28760	<u>63640</u>	64510	85450	70120	116100	156700	164800	63110	<u>32940</u>	<u>29740</u>	74950
1965-66	28440	30120	31740	33450	32350	42650	66230	82490	60640	26410	17840	19060	39290
1966-67	21630	24640	27800	33090	33590	35020	43910	112400	149500	49690	20800	20240	47680
1967-68	27650	31650	30150	30720	57600	49150	43510	80150	96650	31420	25190	26610	44070
1968-69	30940	39450	34720	57180	43940	61520	122300	146700	90620	33790	19370	20310	58410
1969-70	24560	22000	24050	50060	47280	42400	46030	124800	151300	51470	21380	25690	52530
1970-71	27760	33320	36540	62020	75200	62870	108700	195600	178300	69190	24240	23930	74680
1971-72	32870	35100	34790	47770	62960	<u>132000</u>	93770	157200	184100	50320	24620	23970	73230
1972-73	31400	30950	36980	41210	32210	40000	41490	69820	53970	22450	15530	19000	36280
1973-74	21660	39920	48370	<u>73070</u>	55630	82680	125800	146000	<u>228700</u>	74210	25900	21230	<u>78510</u>
1974-75	23790	25910	27280	33550	35850	57090	76150	136300	178700	80360	29060	24970	60780
1975-76	33650	37100	63330	52070	45860	57460	117700	181500	123600	48220	29320	26610	68070
1976-77	27540	25510	26590	21980	23410	<u>22710</u>	<u>34930</u>	<u>48760</u>	39370	<u>14630</u>	12850	16540	<u>26230</u>
1977-78	21410	25320	54000	37010	40690	61510	92240	114100	114000	55160	24670	26350	55560
1978-79	22080	23450	23480	24310	40360	59500	66040	119500	70790	24410	19520	17110	42550
1979-80	20670	19800	21510	27340	33040	38030	68090	121100	107300	39380	19060	24630	44960
1980-81	22800	26770	41850	37530	48870	37320	59790	92350	121000	34160	17400	18300	46390
1981-82	24590	25030	33530	29670	<u>87140</u>	82490	102500	156700	168300	82330	27300	26850	70300
1982-83	33640	36310	43890	51090	61470	96050	86100	134800	137500	63590	28370	24860	66460
1983-84	33050	<u>43940</u>	41340	59170	47610	84170	117900	161400	188900	65290	28430	28940	74940
1984-85	35990	42670	34780	32060	34650	43900	99950	111000	75580	21810	19490	29390	48400
1985-86	29010	31820	25880	32660	84030	121100	106400	124500	117000	29280	19010	26130	61970
1986-87	33220	34230	31920	27390	29860	43930	51670	64100	<u>29880</u>	18200	13840	15160	32810
1987-88	18200	18410	18270	19120	22350	29160	57250	71200	53300	17090	11860	13630	29120
1988-89	16710	21900	19570	20160	21110	65350	94020	96920	79960	25240	17500	18770	41470
MEAN	25080	28290	32320	33530	40840	52480	82600	120300	111400	40370	20560	20650	50680
MEDIAN	23930	26770	27960	29670	39610	46270	83470	118500	107300	36450	19570	20590	49060

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LOWER COLUMBIA RIVER

McNARY

JOHN DAY

ROUND BUTTE -- DESCHUTES RIVER

PELTON -- DESCHUTES RIVER

THE DALLES

BONNEVILLE

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USGS # 14019195 MC NARY
Monthly mean historical streamflow in cfs.

River: COLUMBIA

Drainage Area: 213500 Sq. Mi.
River Mile: 292

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										306200	167200	98120	
1928-29	81980	73980	61860	56150	54200	78840	97030	207600	372400	212600	131000	88710	126600
1929-30	<u>64230</u>	57300	58750	47560	75180	69480	136100	241200	286300	223300	143400	95230	125000
1930-31	71270	58970	56370	51910	52710	69540	123800	238300	262900	186900	121000	93880	115900
1931-32	65470	60420	55880	61120	54240	142800	222800	429700	466500	300100	159200	107200	177400
1932-33	73560	87100	87550	82750	65200	86480	141800	301700	603200	413600	205900	125600	190000
1933-34	98000	139600	169900	189500	141900	140300	277700	412000	369200	209700	142600	97310	199200
1934-35	69280	91750	86320	77910	96420	89410	133900	280200	427400	304100	182300	106800	162400
1935-36	71880	59400	53880	59610	52410	83200	187500	419500	403100	205800	131800	92250	151900
1936-37	64930	<u>52490</u>	<u>49710</u>	<u>42070</u>	<u>48010</u>	<u>64310</u>	109100	236300	337700	238800	136600	92110	123000
1937-38	67620	86890	91350	87480	79980	122000	214500	383900	499900	304200	135200	98480	181300
1938-39	86960	69860	64620	63620	62140	97300	171900	337300	295700	226000	137400	93210	142700
1939-40	71700	80340	75450	68850	81310	120200	197200	263400	307200	199500	121700	102800	140800
1940-41	87570	89270	75710	74870	76540	96440	138000	231500	235400	134500	117300	118000	123100
1941-42	116200	117300	149500	102800	103800	95850	185400	259400	376200	274100	155400	99410	169900
1942-43	77770	81870	94290	99980	106900	113300	315900	345700	474200	386800	180000	95660	198000
1943-44	83020	82960	72520	74970	71700	74990	<u>90170</u>	167800	279900	162700	117700	<u>86710</u>	<u>113800</u>
1944-45	82190	76080	69930	76040	83320	82490	107600	281400	413700	240000	122900	89020	143900
1945-46	70960	80870	83000	98900	81120	126700	223000	443800	482200	288700	151800	110100	187200
1946-47	88130	86110	131100	93620	113100	125000	180000	442500	442300	261900	145500	97110	184300
1947-48	120800	125200	103400	110800	106400	100800	164000	461400	<u>817200</u>	310800	174900	119200	226000
1948-49	94600	84290	83070	78840	102800	136700	209800	474100	397200	184600	121500	89290	171700
1949-50	81290	81450	92130	91980	117200	145800	202500	324300	576400	<u>477400</u>	186300	115200	208000
1950-51	103600	125800	131900	142100	176600	152700	237500	455200	447700	336300	170800	103700	215500
1951-52	116000	104800	108100	114100	120900	138100	236100	449200	392200	255600	135900	89560	188600
1952-53	80950	79180	75220	99800	126300	127300	144200	240100	492100	309200	150700	112100	169700
1953-54	94510	96560	95970	104800	112400	121300	149300	372900	494200	414800	208100	146100	201400
1954-55	103800	106800	97070	96060	102800	113400	134000	191700	442100	391200	172900	106100	171800
1955-56	96580	116800	136600	133700	118200	154600	<u>326800</u>	<u>515300</u>	623900	298100	151800	108000	231600
1956-57	104800	104000	103800	105800	114100	134900	172700	509300	457000	197000	118900	90350	184700
1957-58	93240	89100	88680	91250	128800	138600	192500	377800	430700	192900	115300	91690	169200
1958-59	94070	104200	120100	136800	135000	149800	199300	335000	499200	342100	160000	149200	202200
1959-60	<u>169400</u>	<u>156900</u>	136400	112200	116900	123500	248500	291400	378000	280500	146400	98620	188300
1960-61	91770	98720	88240	95240	152200	150100	165800	324200	572300	219400	117800	88350	180000
1961-62	88300	85610	82670	102000	119500	102500	203600	286500	370400	228100	150200	92310	159300
1962-63	103000	109700	128200	120200	148200	120900	155800	247900	382800	243200	133000	95500	165600
1963-64	86850	84540	89550	90090	103300	99180	130500	284100	568000	345000	157600	102300	178400
1964-65	117300	103700	142600	155200	211800	173100	233300	391500	468400	283200	162400	110100	212500
1965-66	102000	102800	108800	109700	115600	121700	140300	258300	331300	254000	130500	94150	156000
1966-67	91990	94080	108100	118400	121000	128900	138100	248200	565800	338800	149500	104400	184000
1967-68	103200	109300	125700	119100	141800	164000	152200	201100	368100	263300	141100	121900	167500
1968-69	113000	123700	133600	165400	170000	179100	315800	381500	328000	225500	121300	98280	196300
1969-70	109900	116400	125100	140000	131900	132400	142900	252500	336000	177600	123400	103400	157600
1970-71	106400	111700	120400	136600	186500	205400	241700	462100	471700	278300	158500	102800	215200
1971-72	107200	118700	137900	145200	173500	300900	276900	391000	549700	295000	179000	122500	<u>233700</u>
1972-73	115700	120800	149200	145700	134600	140300	133800	141300	139500	131200	121300	97550	131000
1973-74	102500	108100	150900	<u>233500</u>	<u>227200</u>	213100	290300	343200	474300	293300	165800	132700	227700
1974-75	125100	129100	131600	151200	172000	206400	201000	295900	327600	201400	131500	106300	181600
1975-76	116300	145900	<u>192000</u>	192000	207300	212300	255700	347200	293900	238300	<u>225600</u>	<u>162200</u>	215800
1976-77	136100	130000	131200	144600	124700	122100	101700	<u>136400</u>	<u>120500</u>	<u>91310</u>	95520	100900	119600
1977-78	93160	116000	148000	158800	163100	172400	230300	260300	241000	185000	125200	142900	169600
1978-79	125600	140000	141800	160800	154200	155700	161800	231200	175400	121200	108600	95350	147600
1979-80	104200	131200	128700	146800	135200	129400	143800	246900	284100	158600	116600	102100	152200
1980-81	97580	121300	165500	202500	186100	148600	150200	235400	356600	226100	160800	111300	180100
1981-82	116700	119900	145100	168000	212700	302500	268600	330600	366000	275700	156300	121100	215300
1982-83	119100	143600	146400	181200	218500	<u>314900</u>	255700	302500	285700	206600	160600	117200	204300
1983-84	106900	141800	175000	186300	198100	208000	260600	304800	343000	201000	135800	110300	197300
1984-85	118900	127700	147700	193400	195100	161900	189300	230600	184500	106400	<u>90790</u>	99060	153500
1985-86	118700	151700	162800	121900	177900	265200	255700	258200	257500	150100	121300	111600	179200
1986-87	118100	137700	145400	160100	132500	122500	140100	225100	148600	107700	102800	104000	137100
1987-88	116000	106800	140300	145100	128200	120300	124200	186500	160900	103100	99820	110100	128500
1988-89	104700	126200	154700	156900	141400	142000	183200	245000	187900	105300	91720	101200	145000
MEAN	98400	104300	113200	119200	127300	141500	188700	311000	384300	243900	142800	105900	173400
MEDIAN	98000	104800	120100	112200	121000	129400	183200	291400	376200	238600	139300	102500	177400

MCN3H

USGS # 14019195

MC NARY

River: COLUMBIA

Drainage Area: 213500 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 292

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53							9495	894	1681	-1951	813	840	967
1953-54	7317	1597	1789										905
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 14019195

MC NARY

River: COLUMBIA

Drainage Area: 213500 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 292

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-33315	-34590	-17527	
1928-29	-4954	-6806	-6440	-6556	-3423	5894	13026	66187	5077	-32833	-17706	-17410	-460
1929-30	-9866	-9076	-234	-5609	6386	1221	54989	14964	11979	-25406	-19989	-14274	260
1930-31	-9991	-5208	-6506	-532	611	5559	15658	52383	366	-23948	-18330	-13462	-287
1931-32	-6875	-1991	-2454	-5713	6092	12286	34634	53457	12555	-54865	-20050	-21654	362
1932-33	-5517	4339	-4832	-5411	-5953	1753	36481	56317	46459	-64333	-32710	-18648	536
1933-34	6270	-5054	15367	-16284	-13240	12957	83777	17225	-48911	-23749	-21399	-17900	-853
1934-35	-1961	7428	-8248	261	-4485	-584	23502	68781	1850	-29013	-37160	-17029	278
1935-36	-9387	-6161	-4306	-2746	-4850	2735	67730	52023	-36432	-29860	-17107	-14607	-254
1936-37	-9724	-7628	-2089	-4652	-676	982	18251	63560	14357	-33817	-23256	-10232	396
1937-38	1527	-5630	-7074	-4140	-5153	6018	46420	65856	-3853	-49036	-22760	-7763	1186
1938-39	-12341	-7607	-4725	-3382	-7911	6294	42711	50377	-16679	-16489	-15040	-13732	178
1939-40	-1729	-11333	-2934	-9157	-2925	10286	21356	89363	-16968	-25627	-12303	-8186	2585
1940-41	1926	-14440	-4476	-7540	-8562	1853	31234	39056	43752	33506	-8959	-6067	8523
1941-42	1751	-10187	-11360	-19695	-14457	-11322	37316	78157	21370	-10808	-13854	-13307	2877
1942-43	-10093	-5855	-8451	-13725	-9228	467	66034	24522	15937	-20264	-22961	-12405	239
1943-44	-8226	-16328	-12039	-23406	-17859	-12815	27607	78616	9116	-11222	-10858	-3930	-61
1944-45	-11207	-10157	-18640	-9903	-6782	-3652	10494	87884	6380	-27657	-14636	-11601	-736
1945-46	-5644	-1395	-4762	-9032	-10164	-2812	41052	74161	-18019	-30490	-19571	-12551	124
1946-47	-6268	-703	-2020	-12393	-8781	-4264	40908	58406	-12505	-23715	-19725	-4422	392
1947-48	6320	-10231	-8346	-14583	-17147	-11377	45348	122250	-43806	-44698	-8006	-13014	383
1948-49	-8120	-8285	-16727	-22790	-9058	5035	46054	71646	-33740	-15360	-5370	-8074	-321
1949-50	-9542	2877	-8225	-24269	-15450	3103	16077	55626	77984	-58038	-17430	-14250	619
1950-51	109	-4572	745	-20948	-8292	-22101	32346	80676	-4322	-18342	-21459	-5124	758
1951-52	2911	-11792	-17546	-35994	-24208	-32574	97347	70562	25772	-11975	-5119	-10662	3814
1952-53	-19379	-29126	-24016	-1443	-16203	-34635	13523	125730	66330	-7820	-3191	-21623	4143
1953-54	-11666	-15318	-14595	-28753	-13431	-18480	31184	112461	27951	10058	-15121	-10756	4567
1954-55	-11951	-3666	-17242	-31013	-39231	-50504	-3046	117370	120311	-26239	-21890	-15544	1528
1955-56	-661	-4360	-341	-18173	-34315	-14343	22300	115126	-1358	-13727	-11718	-12959	2335
1956-57	-13276	-24742	-16757	-47025	-29838	-2924	24553	153889	-3790	-8587	-11503	-9573	1168
1957-58	-17598	-23471	-20449	-23639	-10141	-27841	19991	165829	2484	-9639	1250	-6337	4387
1958-59	-6281	-2268	-7184	-11543	-38488	-44341	17842	77597	95451	-18487	-14714	-821	3986
1959-60	-8383	-14931	-18848	-37726	-26252	2334	13383	53427	86123	-10544	-14207	-5303	1542
1960-61	-11283	-15228	-24639	-29395	-10843	-22818	12383	139097	31179	-26809	1962	-11453	2774
1961-62	-6512	-21980	-19791	-37669	-29869	-16407	50398	72854	69817	-6897	-7929	-6871	3320
1962-63	-6386	-8777	-19921	-45245	-10668	-16723	12263	100691	44153	-4323	-2484	1844	3725
1963-64	-15154	-12665	-25989	-27794	-43834	-27934	25392	88535	101314	-17768	-6585	2802	3335
1964-65	-13206	-15354	-7123	-27760	-57415	-35787	51548	95556	85785	-6939	1145	-11439	2123
1965-66	-13340	-15033	-31981	-34946	-45517	-21267	56298	103423	57139	-8815	-310	-9351	3213
1966-67	-22242	-21080	-22328	-26824	-30293	-36844	-13242	144442	128432	-18999	-8655	-12215	5133
1967-68	-16021	-18594	-47607	-36765	-5233	-21694	-28954	129749	107537	18361	3142	4217	7318
1968-69	-5330	-11709	-41209	-50359	-73087	-55010	28979	165303	142750	1759	-13574	-11767	6714
1969-70	-23510	-44036	-58812	-44539	-32259	-37457	-21776	123600	181528	31677	-13452	-25952	2993
1970-71	-33975	-37392	-44633	-24037	-21696	-79587	3139	150712	134452	30705	1093	-13481	5487
1971-72	-22161	-37271	-62834	-53685	-52668	-17196	-35620	166430	209006	54773	-1297	-27874	10122
1972-73	-27634	-44927	-63564	-54356	-63784	-46245	-19189	149390	162745	42738	-21757	-29624	-1041
1973-74	-32709	-1638	-24873	-37597	-84896	-48111	29365	131427	343378	98281	2594	-37397	28475
1974-75	-56265	-61218	-63689	-75122	-87040	-95682	-41012	124192	280794	143616	10668	-8090	6291
1975-76	-18850	-29459	-16460	-68743	-102143	-96110	11560	226529	154973	102361	5700	-15479	13259
1976-77	-54679	-61602	-69709	-88526	-66350	-63455	15536	82901	127457	31183	11670	-21822	-12986
1977-78	-31248	-44721	-18192	-73154	-70713	-27036	24359	134051	228642	101783	7739	-7800	19032
1978-79	-41530	-61584	-82487	-103089	-69292	-35144	-8206	170028	152370	53335	-4259	-19134	-3765
1979-80	-45036	-81936	-61012	-83447	-58529	-32435	91203	246445	108362	30580	-13816	-10840	7612
1980-81	-21127	-38046	-33298	-85242	-56613	-38484	25137	180687	84397	62662	-4406	-21173	4956
1981-82	-34793	-37131	-60605	-90462	-31052	-125926	-50498	137874	273172	74032	408	-2784	4191
1982-83	-20561	-55564	-48982	-62612	-83284	-93437	-18710	143096	186873	92916	-5730	-21163	1525
1983-84	-26858	-15063	-84382	-51028	-89051	-34881	-8368	62125	237781	99355	7124	-11390	7162
1984-85	-34632	-35218	-75752	-128641	-121065	-72835	45099	194970	171817	53272	4524	-5203	200
1985-86	-24438	-50790	-95386	-47664	-30002	-17716	507	127080	202199	46220	-2933	-30967	6379
1986-87	-33588	-44681	-70955	-97639	-64477	7830	52351	149229	105650	43576	-12735	-39033	-53
1987-88	-66881	-61097	-86563	-95549	-73967	-43646	84734	131599	159035	58008	-5884	-44965	-3798
1988-89	-33356	-49060	-90712	-96525	-86241	-14802	70473	133147	198778	72839	30557	-20028	9933
MEAN	-16281	-21255	-28184	-36982	-33529	-24305	25170	104600	80700	7857	-9499	-13858	3079

MCN3SS

USGS # 14019195

MC NARY

River: COLUMBIA

Drainage Area: 213500 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 292

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										272900	132600	80590	
1928-29	77030	67170	55420	49590	50780	84730	<u>110100</u>	273800	377500	179800	113300	71300	126100
1929-30	54380	48220	58520	41950	81570	70700	191100	256200	298300	197900	123400	80960	125300
1930-31	61280	53760	49860	51380	53320	75100	139500	290700	263300	163000	102700	80420	115600
1931-32	58590	58430	53430	55410	60330	155100	257400	483200	479100	245200	139200	85550	177700
1932-33	68040	91440	82720	77340	59250	88230	178300	358000	649700	349300	173200	107000	190500
1933-34	104300	134500	<u>185300</u>	173200	128700	153300	361500	429200	320300	186000	121200	79410	198400
1934-35	67320	99180	78070	78170	91930	88830	157400	349000	429200	275100	145100	89770	162700
1935-36	62490	53240	49570	56860	47560	85940	255200	471500	366700	175900	114700	77640	151600
1936-37	55210	<u>44860</u>	<u>47620</u>	<u>37420</u>	<u>47330</u>	65290	127400	299900	352100	205000	113300	81880	123400
1937-38	69150	81280	84280	83340	74830	128000	260900	449800	496000	255200	112400	90720	182500
1938-39	74620	62250	59890	60240	54230	103800	214600	387700	279000	209500	122400	79480	142800
1939-40	69970	69010	72520	59690	78380	130500	218600	352800	290200	173900	109400	94610	143400
1940-41	89500	74830	71230	67330	67980	98290	169200	270600	279200	168000	108300	111900	131600
1941-42	118000	107100	138100	83110	89340	84530	222700	337600	397600	263300	141500	86100	172800
1942-43	67680	76010	85840	86260	97670	113800	<u>381900</u>	370200	490100	366500	157000	83260	198200
1943-44	74790	66630	60480	51560	53840	62170	117800	246400	289000	151500	106800	82780	113700
1944-45	70980	65920	51290	66140	76540	78840	118100	369300	420100	212300	108300	77420	143200
1945-46	65320	79480	78240	89870	70960	123900	264100	518000	464200	258200	132200	97550	187300
1946-47	81860	85410	129100	81230	104300	120700	220900	500900	429800	238200	125800	92690	184600
1947-48	127100	115000	95050	98220	89250	89420	209300	583700	773400	266100	166900	106200	226400
1948-49	86480	76010	66340	58050	93740	141700	255900	545700	363500	169200	116100	81220	171400
1949-50	71750	84330	83900	67710	101800	148900	218600	379900	654400	419400	168900	100900	208600
1950-51	103700	121300	132600	121200	168300	130600	269800	535900	443300	317900	149300	98550	216200
1951-52	118900	92970	90530	78070	96690	105600	333500	519800	417900	243700	130800	78900	192400
1952-53	61570	50050	51210	98360	110100	92890	157800	365800	558400	301400	147500	90470	173900
1953-54	82840	81240	81380	76020	98930	102800	180500	485300	522200	<u>424900</u>	192900	135300	206000
1954-55	91820	103200	79830	65050	63540	62880	131000	309000	562400	365000	151000	90570	173300
1955-56	95920	112400	136200	115600	83890	140200	349100	630400	622600	284400	140100	95040	234000
1956-57	91550	79220	87040	58740	84220	132000	197300	<u>663200</u>	453200	188400	107400	80770	185900
1957-58	75640	65630	68230	67610	118600	110700	212500	543600	433200	183200	116600	85350	173600
1958-59	87790	101900	112900	125300	96510	105500	217100	412600	594700	323600	145300	<u>148300</u>	206200
1959-60	<u>161000</u>	<u>142000</u>	117500	74460	90670	125800	261900	344800	464100	269900	132200	93320	189800
1960-61	80480	83500	63600	65840	141300	127300	178100	463300	603500	192600	119800	76900	182800
1961-62	81790	63630	62880	64380	89610	86100	254000	359300	440200	221200	142300	85440	162600
1962-63	96600	100900	108200	74920	137500	104200	168100	348600	427000	238900	130500	97340	169300
1963-64	71690	71880	63570	62290	59440	71250	155900	372600	669300	327200	151000	105100	181700
1964-65	104100	88320	135500	127400	154400	137300	284800	451100	554200	276300	163600	98670	214700
1965-66	88690	78710	76800	74750	70100	100400	196600	361700	388400	245200	130200	84800	159200
1966-67	69750	73000	85810	91540	90740	92010	124800	392600	694200	319800	140800	92220	189100
1967-68	87130	90700	78110	82380	136500	142300	123200	330900	475600	281700	144300	126100	174800
1968-69	107600	111900	92370	115000	96930	124100	344800	546800	470800	227300	107700	86510	203000
1969-70	86350	72360	66270	95430	99600	94950	121100	376100	517500	209300	109900	77490	160800
1970-71	72450	74280	75810	112500	164800	125800	244900	612800	606200	309000	159600	89300	220700
1971-72	85070	81420	75070	91480	120800	<u>283700</u>	241300	557400	758700	349700	177700	94640	243200
1972-73	88110	75890	85680	91320	70800	94010	114600	290700	302300	174000	99580	67920	129900
1973-74	69790	106500	126100	<u>195900</u>	142300	165000	319700	474600	<u>817700</u>	391600	168400	95260	<u>256100</u>
1974-75	68820	67860	67960	76040	84960	110700	160000	420100	608400	345000	142200	98230	187900
1975-76	97460	116400	175500	123300	105200	116200	267300	573700	448900	340700	<u>231300</u>	146800	229100
1976-77	81430	68430	61530	56050	58330	<u>58630</u>	117300	<u>219300</u>	<u>248000</u>	<u>122500</u>	107200	79090	<u>106600</u>
1977-78	61920	71230	129800	85620	92430	145300	254600	394300	469700	286800	132900	135100	188600
1978-79	84110	78440	59290	57720	84920	120600	153600	401300	327800	174500	104300	76220	143900
1979-80	59120	49250	67690	63370	76630	96940	235000	493300	392500	189200	102700	91280	159800
1980-81	76460	83240	132200	117300	129500	110200	175300	416100	441000	288800	156400	90090	185000
1981-82	81910	82770	84500	77540	<u>181600</u>	176600	218100	468500	639200	349700	156700	118300	219400
1982-83	98540	88040	97420	118600	135200	221500	237000	445600	472600	299500	154900	98040	205800
1983-84	80040	126700	90620	135300	109000	171100	252200	366900	580800	300400	142900	98910	204400
1984-85	84270	92480	71950	64760	74040	89060	234400	425600	356300	159700	95310	93860	153700
1985-86	94260	100900	67410	74240	147900	247500	256200	385300	459700	196300	118400	80630	185600
1986-87	84510	93020	74440	62460	68020	130300	192500	374300	254300	151300	<u>90070</u>	<u>64970</u>	137100
1987-88	<u>49120</u>	45700	53740	49550	54230	76650	208900	318100	319900	161100	93940	65130	124700
1988-89	71340	77140	63990	60370	55160	127200	253700	378100	386700	178100	122300	81170	154900
MEAN	82120	83080	85050	82260	93730	117200	213900	415600	465000	251800	133300	92090	176500
MEDIAN	81430	81240	78070	76020	89610	110700	217100	392600	448900	245200	131500	89930	181700

MCN3A

USGS # 14048006

JOHN DAY

River: COLUMBIA

Drainage Area: 226000 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 215.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										310100	168800	99640	
1928-29	82920	74730	60720	53910	53100	80590	99350	209100	379300	215600	133000	90710	128000
1929-30	<u>65550</u>	58450	57680	44180	76270	70240	142500	243700	292700	226900	145500	97210	126900
1930-31	72780	60170	55140	50610	52610	71480	126600	241300	268800	190300	123200	96060	117700
1931-32	67160	61970	55160	60220	54600	151200	229800	435600	475000	303900	161100	109000	180700
1932-33	74990	88240	90020	85420	65510	89650	146300	305000	612900	417900	207600	126900	193000
1933-34	99270	141600	184600	207800	150700	150700	291100	418800	376000	213100	144500	99200	206700
1934-35	70510	93170	87560	80340	100400	92320	137300	283200	435000	308100	184100	108400	165300
1935-36	73240	60420	52330	57600	50440	84730	193400	425100	409700	208700	133600	93890	153800
1936-37	66280	<u>53690</u>	<u>47820</u>	<u>37960</u>	<u>46650</u>	<u>64140</u>	110000	237700	343300	241900	138400	93820	123800
1937-38	68820	87880	92390	89410	80030	125200	218000	388000	508400	307900	136900	99860	183900
1938-39	87860	70510	63890	63290	61450	101000	178200	342400	301600	229500	139400	95060	145000
1939-40	73140	82040	76980	68580	82850	126000	203100	268000	313600	202900	123900	104600	143800
1940-41	89000	90890	77050	75980	77820	100100	143600	234300	241600	137900	119400	119500	125700
1941-42	117700	119300	158900	106700	106100	97680	191200	263200	383800	278300	157500	101300	173800
1942-43	79340	82580	93650	99910	107000	115900	323100	347800	481600	390800	181300	96820	200200
1943-44	83540	83110	71530	72610	70650	74430	<u>93220</u>	169800	285900	165800	119900	<u>88660</u>	<u>114900</u>
1944-45	83730	77710	68700	76900	84730	84740	109900	284600	421400	243600	124900	90880	146200
1945-46	72270	82370	83630	101500	81890	131400	229000	450000	490000	292200	153400	111000	190400
1946-47	88540	86810	137600	96630	117400	130600	186700	450400	450300	265600	147200	98590	188400
1947-48	121300	126600	107300	115200	109100	103100	168800	468600	<u>827800</u>	314100	176300	119900	229600
1948-49	94950	85460	82650	77980	104000	142200	214900	479300	402700	186800	122800	90490	174000
1949-50	82100	82770	94730	92700	120300	152700	206700	326900	584900	<u>481700</u>	187100	115700	211000
1950-51	103800	127600	133700	145700	182700	157000	243600	460400	452800	339900	174400	104800	219000
1951-52	116200	105900	109500	113700	123700	140700	244100	456900	399700	259700	137100	91130	191700
1952-53	81530	80010	75850	103100	130000	130400	148200	244300	502900	314800	150500	113900	172900
1953-54	96070	96490	96190	104200	114900	123200	151200	369800	496400	416200	210500	147100	202300
1954-55	104700	107500	98010	96680	102800	113300	137000	194000	441300	398200	176700	108900	173600
1955-56	98580	118700	142600	142800	121600	158400	330000	<u>519900</u>	631800	300700	153600	110300	235700
1956-57	104000	103700	106500	106900	113500	144800	180000	510500	474200	198500	121100	91360	188300
1957-58	94430	90190	91140	93240	137100	144100	201700	388100	447000	196200	116000	91910	174200
1958-59	94480	103900	122500	139900	138200	152900	203200	343600	506500	354900	161900	148200	206000
1959-60	<u>170000</u>	<u>157600</u>	138000	112400	119700	125800	254200	293500	380700	282900	147000	98250	190000
1960-61	92180	99890	89560	95480	155600	155700	167800	329800	585800	225000	118700	88880	183400
1961-62	88190	86730	83300	103000	121800	105700	208300	299300	390100	233400	151600	92930	163700
1962-63	103600	110000	130900	121500	154600	123800	161300	253400	388000	245700	134500	95840	168500
1963-64	87270	85500	90110	88790	103800	101100	134500	284400	572000	351000	158900	102100	179900
1964-65	117600	103800	152700	161500	223800	178400	238000	396700	480800	287600	163200	111100	217700
1965-66	102700	102100	109100	110900	116000	124100	144100	256600	332000	255600	131800	94730	156800
1966-67	92330	94350	110500	120500	124700	130900	141500	248300	573100	343200	150800	104300	186300
1967-68	103400	108900	126800	119700	142500	160000	117900	191500	353300	252800	135600	119200	160900
1968-69	113500	123700	136000	169500	168800	180500	<u>336400</u>	393600	332700	232000	118200	96420	200100
1969-70	110400	117800	122500	149900	138100	141400	144900	262300	337600	177600	124000	104300	160900
1970-71	109500	113300	122300	149300	187200	209900	246700	480300	484500	279700	156800	103600	220300
1971-72	111200	122400	140100	147600	179900	316900	283700	395700	562700	289400	175800	122200	<u>237200</u>
1972-73	115400	120900	146100	143100	133000	143700	135100	143900	139300	128400	124000	97380	130900
1973-74	107000	112400	159700	<u>241300</u>	229200	219400	300400	344900	473600	289400	162600	129800	230600
1974-75	124900	126100	130000	151800	171000	208800	203500	301600	322200	195300	126100	105800	180600
1975-76	112800	142700	<u>191500</u>	192800	209100	215200	259400	350700	286500	230700	<u>217700</u>	<u>156000</u>	213800
1976-77	136200	127800	127300	139900	119700	117900	99480	<u>132000</u>	<u>119400</u>	<u>84570</u>	<u>89640</u>	94910	115800
1977-78	90660	111400	146700	158000	159700	170700	225700	253300	232400	173800	119400	132900	164500
1978-79	124700	136400	137300	154800	154000	157600	172800	238500	170000	118600	105500	93260	146900
1979-80	103600	129800	131900	151100	137600	135700	149300	253200	278700	155800	113400	101900	153500
1980-81	101400	123500	167500	203500	192800	153100	154200	234000	361300	226300	158300	110600	182100
1981-82	119800	119400	152100	172900	<u>230500</u>	311900	278500	345800	375200	280400	157200	121800	222000
1982-83	122500	143800	150100	183700	226500	<u>333100</u>	264800	313700	289000	205700	162000	117400	209300
1983-84	112200	142500	180100	191000	206600	218300	277800	318000	354700	201400	135600	114100	204200
1984-85	124000	133200	153700	198900	199400	170000	204800	237300	187100	109100	91860	101800	159000
1985-86	122800	153900	164300	126400	191500	277600	261300	266600	259100	148100	122200	111300	183600
1986-87	119700	138800	147000	162800	137800	131600	144700	230600	147600	108300	103400	104200	139800
1987-88	119100	108600	142500	149000	132100	121800	129600	192000	164300	102700	97940	108200	130700
1988-89	107100	128100	158800	159400	147600	156700	196600	259500	191900	105500	90910	104400	150300
MEAN	99580	105100	115000	121200	130000	145900	193800	315800	389600	245700	143200	106400	175900
MEDIAN	101400	105900	122300	113700	123700	135700	191200	299300	383800	237600	138900	103900	179900

JDA3H

USGS # 14048006

JOHN DAY

River: COLUMBIA

Drainage Area: 226000 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 215.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	34300	3038	743	1138	2361	182	3441
1968-69	-1965	0	-1548	407	1723	594	-5932	2701	4492	-3376	2674	363	0
1969-70	88	-2292	1002	-1327	270	-1545	1681	-3280	3222	1164	690	363	-7
1970-71	-2043	-168	-325	-1935	2323	81	424	-1223	1435	-738	1839	993	30
1971-72	-2311	-1346	-244	1464	-522	163	-2410	-1535	3660	2605	-1955	343	-175
1972-73	-83	-677	-81	0	724	-1304	504	-732	840	2002	-1514	2558	175
1973-74	-1478	-860	-1628	81	1080	-325	-1664	-2805	5151	1418	172	-356	-118
1974-75	-3027	1084	-163	407	-180	0	504	-3409	3691	1332	779	-2770	-154
1975-76	488	422	-1059	407	522	-894	-919	-558	2000	1748	519	545	264
1976-77	-3282	-504	0	244	810	325	-84	1935	-2924	1138	498	877	-81
1977-78	-1753	-252	325	-813	900	-732	-252	-1200	2928	2150	-2318	1309	7
1978-79	-3139	1259	-1457	400	990	733	-2425	-472	5028	-698	522	454	82
1979-80	-2062	-511	-1623	-794	1975	-325	0	-2376	4319	1033	439	0	-15
1980-81	-2381	-1260	1382	-244	-540	163	-1751	800	1941	-332	2048	272	15
1981-82	-3207	756	-2498	1197	-1412	2251	336	-3352	1702	1869	1608	-178	-74
1982-83	-2170	-84	-894	1464	-90	-325	-756	407	3307	-176	-525	271	30
1983-84	-3812	82	-1026	1916	-435	894	-1506	563	84	1799	1108	-1487	-144
1984-85	-1467	-501	0	-478	1966	163	-756	-244	3546	-351	-174	-802	56
1985-86	-1399	-168	-81	-244	-2031	2241	336	-1620	3401	1047	-1478	89	15
1986-87	-1490	504	-488	-569	450	-651	924	-407	2770	-348	-517	267	22
1987-88	-1992	84	0	0	0	2256	180	176	-450	-345	781	-361	29
1988-89	-2174	-168	407	325	-540	-1138	1092	-407	2578	0	348	0	22
MEAN	-1936	-230	-476	91	380	125	992	-636	2430	671	359	140	155

JDA3S

USGS # 14048006

JOHN DAY

River: COLUMBIA

Drainage Area: 226000 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 215.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-33315	-34590	-17527	
1928-29	-4954	-6806	-6440	-6556	-3423	5894	13026	66187	5077	-32833	-17706	-17410	-460
1929-30	-9866	-9076	-234	-5609	6386	1221	54989	14964	11979	-25406	-19989	-14274	260
1930-31	-9991	-5208	-6506	-532	611	5559	15658	52383	366	-23948	-18330	-13462	-287
1931-32	-6875	-1991	-2454	-5713	6092	12286	34634	53457	12555	-54865	-20050	-21654	362
1932-33	-5517	4339	-4832	-5411	-5953	1753	36481	56317	46459	-64333	-32710	-18648	536
1933-34	6270	-5054	15367	-16284	-13240	12957	83777	17225	-48911	-23749	-21399	-17900	-853
1934-35	-1961	7428	-8248	261	-4485	-584	23502	68781	1850	-29013	-37160	-17029	278
1935-36	-9387	-6161	-4306	-2746	-4850	2735	67730	52023	-36432	-29860	-17107	-14607	-254
1936-37	-9724	-7628	-2089	-4652	-676	982	18251	63560	14357	-33817	-23256	-10232	396
1937-38	1527	-5630	-7074	-4140	-5153	6018	46420	65856	-3853	-49036	-22760	-7763	1186
1938-39	-12341	-7607	-4725	-3382	-7911	6294	42711	50377	-16679	-16489	-15040	-13732	178
1939-40	-1729	-11333	-2934	-9157	-2925	10286	21356	89363	-16968	-25627	-12303	-8186	2585
1940-41	1926	-14440	-4476	-7540	-8562	1853	31234	39056	43752	33506	-8959	-6067	8523
1941-42	1751	-10187	-11360	-19695	-14457	-11322	37316	78157	21370	-10808	-13854	-13307	2877
1942-43	-10093	-5855	-8451	-13725	-9228	467	66034	24522	15937	-20264	-22961	-12405	239
1943-44	-8226	-16328	-12039	-23406	-17859	-12815	27607	78616	9116	-11222	-10858	-3930	-61
1944-45	-11207	-10157	-18640	-9903	-6782	-3652	10494	87884	6380	-27657	-14636	-11601	-736
1945-46	-5644	-1395	-4762	-9032	-10164	-2812	41052	74161	-18019	-30490	-19571	-12551	124
1946-47	-6268	-703	-2020	-12393	-8781	-4264	40908	58406	-12505	-23715	-19725	-4422	392
1947-48	6320	-10231	-8346	-14583	-17147	-11377	45348	122250	-43806	-44698	-8006	-13014	383
1948-49	-8120	-8285	-16727	-22790	-9058	5035	46054	71646	-33740	-15360	-5370	-8074	-321
1949-50	-9542	2877	-8225	-24269	-15450	3103	16077	55626	77984	-58038	-17430	-14250	619
1950-51	109	-4572	745	-20948	-8292	-22101	32346	80676	-4322	-18342	-21459	-5124	758
1951-52	2911	-11792	-17546	-35994	-24208	-32574	97347	70562	25772	-11975	-5119	-10662	3814
1952-53	-19379	-29126	-24016	-1443	-16203	-34635	13523	125730	66330	-7820	-3191	-21623	4143
1953-54	-11666	-15318	-14595	-28753	-13431	-18480	31184	112461	27951	10058	-15121	-10756	4567
1954-55	-11951	-3666	-17242	-31013	-39231	-50504	-3046	117370	120311	-26239	-21890	-15544	1528
1955-56	-661	-4360	-341	-18173	-34315	-14343	22300	115126	-1358	-13727	-11718	-12959	2335
1956-57	-13276	-24742	-16757	-47025	-29838	-2924	24553	153889	-3790	-8587	-11503	-9573	1168
1957-58	-17598	-23471	-20449	-23639	-10141	-27841	19991	165829	2484	-9639	1250	-6337	4387
1958-59	-6281	-2268	-7184	-11543	-38488	-44341	17842	77597	95451	-18487	-14714	-821	3986
1959-60	-8383	-14931	-18848	-37726	-26252	2334	13383	53427	86123	-10544	-14207	-5303	1542
1960-61	-11283	-15228	-24639	-29395	-10843	-22818	12383	139097	31179	-26809	1962	-11453	2774
1961-62	-6512	-21980	-19791	-37669	-29869	-16407	50398	72854	69817	-6897	-7929	-6871	3320
1962-63	-6386	-8777	-19921	-45245	-10668	-16723	12263	100691	44153	-4323	-2484	1844	3725
1963-64	-15154	-12665	-25989	-27794	-43834	-27934	25392	88535	101314	-17768	-6585	2802	3335
1964-65	-13206	-15354	-7123	-27760	-57415	-35787	51548	59556	85785	-6939	1145	-11439	2123
1965-66	-13340	-15033	-31981	-34946	-45517	-21267	56298	103423	57139	-8815	-310	-9351	3213
1966-67	-22242	-21080	-22328	-26824	-30293	-36844	-13242	144442	128432	-18999	-8655	-12215	5133
1967-68	-16021	-18594	-47807	-36765	-5233	-21694	5346	132787	108279	19499	5504	4398	10759
1968-69	-7295	-11709	-42757	-49953	-71344	-54416	23047	168004	147242	-1618	-10900	-11404	6714
1969-70	-23422	-46328	-57810	-45866	-31988	-39002	-20095	120320	184750	32842	-12762	-25589	2986
1970-71	-36017	-37560	-44958	-25972	-19374	-79506	3563	149489	135888	29966	2932	-12488	5517
1971-72	-24472	-38617	-63078	-52221	-53189	-17034	-38030	164894	212666	57378	-3252	-27532	9948
1972-73	-27717	-45604	-63645	-54356	-63060	-47549	-18685	148658	163585	44740	-23272	-27066	-866
1973-74	-34188	-2498	-26501	-37515	-83815	-48436	27701	128622	348528	99699	2766	-37753	28357
1974-75	-59292	-60134	-63852	-74715	-87220	-95682	-40508	120783	284484	144948	11447	-10860	6137
1975-76	-18363	-29037	-17519	-68337	-101621	-97005	10640	225971	156973	104109	6219	-14934	13524
1976-77	-57961	-62106	-69709	-88282	-65540	-63130	15452	84836	124533	32322	12168	-20945	-13067
1977-78	-33001	-44973	-17867	-73967	-69813	-27768	24107	132851	231570	103933	5423	-6491	19039
1978-79	-44669	-60326	-83944	-102689	-68302	-34411	-10631	169557	157398	52637	-3737	-18681	-3684
1979-80	-47099	-82447	-62635	-84240	-56554	-32760	91203	244069	112681	31613	-13377	-10840	7597
1980-81	-23508	-39306	-31916	-85486	-57154	-38321	23386	181487	86338	62330	-2359	-20901	4971
1981-82	-38001	-36375	-63103	-89265	-32463	-123675	-50162	134522	274875	75901	2017	-2963	4117
1982-83	-22730	-55648	-49877	-61148	-83374	-93762	-19466	143502	190180	92740	-6255	-20893	1554
1983-84	-30670	-14981	-85408	-49112	-89486	-33986	-9874	62688	237865	101153	8232	-12877	7018
1984-85	-36099	-35718	-75752	-129119	-119099	-72673	44343	194726	175363	52920	4350	-6005	257
1985-86	-25837	-50958	-95468	-47907	-32033	-15475	843	125461	205600	47267	-4411	-30878	6394
1986-87	-35077	-44177	-71443	-98208	-64027	7179	53276	148823	108420	43228	-13252	-38766	-31
1987-88	-68873	-61013	-86563	-95549	-73967	-41391	84914	131774	158585	57663	-5103	-45327	-3769
1988-89	-35531	-49228	-90306	-96200	-86781	-15941	71565	132741	201356	72839	30905	-20028	9956
MEAN	-16947	-21330	-28348	-36951	-33398	-24262	25530	104400	81580	8084	-9371	-13810	3135

JDA3SS

USGS # 14048006

JOHN DAY

River: COLUMBIA

Drainage Area: 226000 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 215.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										276800	134200	82110	
1928-29	77970	67920	54280	47350	49680	86480	<u>112400</u>	275300	384400	182800	115300	73300	127500
1929-30	55680	49380	57450	38570	82650	71460	197500	258600	304700	201500	125500	82930	127200
1930-31	62790	54960	48640	50080	53220	77040	142300	293700	269200	166300	104900	82600	117400
1931-32	60280	59980	52710	54510	60690	163500	264400	489100	487600	249100	141100	87300	181000
1932-33	69470	92580	85190	80010	59560	91400	182700	381300	659400	353600	174900	108200	193600
1933-34	105500	136800	<u>200000</u>	191500	137500	163700	374900	436000	327100	189400	123100	81300	205800
1934-35	68550	100600	79310	80610	95940	91730	160800	352000	436900	279000	147000	91390	165500
1935-36	63850	54260	48020	54850	<u>45590</u>	87470	261100	477100	373300	178900	116500	79290	153500
1936-37	56560	<u>46060</u>	<u>45730</u>	<u>33310</u>	45970	65120	128300	301200	357700	208100	115200	83580	124200
1937-38	70350	82250	85320	85270	74880	131300	264400	453800	504600	258900	114100	92100	185100
1938-39	75520	62900	59160	59900	53540	107300	220900	392800	284900	213100	124300	81330	145200
1939-40	71410	70710	74040	59430	79920	136300	224400	357400	296600	177300	111500	96370	146400
1940-41	90920	76450	72580	68440	69260	101900	174800	273300	285300	171500	110500	113400	134300
1941-42	119500	109100	147500	87020	91670	86380	228500	341400	405200	267500	143700	87970	176600
1942-43	69250	76720	85200	86180	97720	116400	<u>389100</u>	372400	497500	370500	158400	84420	200500
1943-44	75320	66780	59490	49200	52790	61610	120800	248400	295000	154500	109000	84730	114800
1944-45	72520	67560	50060	67000	77950	81090	120400	372500	427800	215900	110200	79270	145400
1945-46	66620	80970	78870	92460	71730	128600	270100	524200	472000	261800	133800	98460	190500
1946-47	82270	86100	135600	84230	108700	126300	227700	508800	437800	241900	127500	94170	188800
1947-48	127600	116400	98990	100600	91950	91680	214100	590900	784000	269400	168300	106900	230000
1948-49	88830	77170	65920	55190	94950	147300	261000	550900	368900	171500	117400	82420	173700
1949-50	72560	85640	86510	68430	104800	155800	222800	382500	662900	423700	169700	101500	211600
1950-51	104000	123000	134500	124700	174400	134900	275900	541100	448400	321600	153000	99650	219800
1951-52	119100	94080	91940	77740	99520	108100	341500	527500	425500	247700	132000	80470	195500
1952-53	62150	50890	51830	101600	113800	95780	161700	370100	569300	307000	147300	92300	177000
1953-54	84400	81170	81590	75430	101500	104800	182400	482200	524400	<u>426300</u>	195300	136300	206900
1954-55	92790	103800	80760	65670	63560	62810	134000	311400	561600	372000	154800	93360	175100
1955-56	97920	114400	142300	124600	87320	144100	352300	635000	630400	287000	141900	97370	238000
1956-57	90770	78940	89760	59840	83670	141900	204600	<u>664400</u>	470400	189900	109600	81790	189400
1957-58	76830	66720	70700	69600	126900	116200	221600	554000	449500	186600	117200	85580	178600
1958-59	88200	101600	115300	128400	99700	108800	221000	421200	602000	336400	147200	<u>147400</u>	210000
1959-60	<u>161700</u>	<u>142700</u>	119200	74650	93470	128100	267600	347000	466800	272400	132800	92950	191600
1960-61	80900	84670	64920	66090	144800	132900	180200	468900	617000	198200	120700	77420	186100
1961-62	81670	64750	63510	65310	91920	89260	258700	372100	459900	226500	143600	86060	167000
1962-63	97190	101300	111000	76250	143900	107000	173600	354100	432100	241300	132000	97690	172200
1963-64	72110	72830	64120	60990	59990	73140	159800	372900	673300	333200	152400	104900	183200
1964-65	104400	88440	145600	133800	166300	142600	289600	456300	566600	280700	164300	99710	219800
1965-66	89350	87090	77120	75930	70470	102900	200400	360000	389100	246800	131500	85380	160100
1966-67	70090	73270	88180	93670	94430	94070	128200	392700	701500	324200	142100	92130	191400
1967-68	87420	90340	79170	82890	137300	138300	123200	324300	461600	272300	141100	123600	171700
1968-69	106200	112000	93240	119600	97460	126100	359500	561700	480000	230400	107300	85020	206800
1969-70	86930	71470	64730	104000	106100	102400	124900	382600	522300	210400	111200	78720	163900
1970-71	73470	75780	77370	123300	167800	130400	250300	629800	620400	309600	159700	91080	225900
1971-72	86710	83740	77060	95350	126700	<u>299900</u>	245700	560600	775400	346700	172600	94700	247200
1972-73	87710	75250	82440	88740	69910	96160	116400	292500	302900	173200	100700	70320	130100
1973-74	72760	109900	133200	<u>203800</u>	145400	171000	328100	473500	<u>822200</u>	389100	165300	92080	<u>258900</u>
1974-75	65610	68000	66130	77040	83780	113200	163000	422400	606700	340200	137600	94980	186700
1975-76	94410	113700	174000	124500	107500	118200	270000	576700	443400	334800	<u>223900</u>	141000	227300
1976-77	78270	65710	57560	51640	54120	<u>54730</u>	114900	<u>216800</u>	<u>243900</u>	<u>116900</u>	101800	73970	<u>102700</u>
1977-78	57660	66380	128900	84000	89910	142900	249800	386200	463900	277700	124900	126400	183500
1978-79	79990	76080	53310	52130	85700	123100	162200	408100	327400	171300	101700	74580	143200
1979-80	56540	47350	69280	66900	81090	102900	240500	497300	391300	187400	100100	91060	161100
1980-81	77850	84190	135500	118100	135700	114800	177600	415500	447700	288600	155900	89720	187000
1981-82	81760	83020	89040	83650	<u>198100</u>	188200	228400	480400	650000	356300	159200	118800	226200
1982-83	99790	88160	100200	122500	143200	239300	245300	457200	479200	298400	155700	96490	210800
1983-84	81530	127500	94680	141900	117100	184400	267900	380700	592600	302600	143900	101200	211200
1984-85	87860	97470	77920	69730	80250	97330	249200	432100	362500	162100	96210	95750	159200
1985-86	97010	102900	68850	78510	159500	262100	262200	392100	464700	195400	117800	80400	190000
1986-87	84580	94570	75540	64590	73730	138800	198000	379500	256000	151500	<u>90180</u>	65400	139800
1987-88	<u>50280</u>	47560	55980	53420	58140	80410	214500	323800	322800	160300	92830	<u>62900</u>	126900
1988-89	71550	78880	66500	63200	60850	140800	268100	392200	393200	178300	121800	84370	160300
MEAN	82640	83750	86610	84230	96650	121700	219300	420200	471200	253800	133800	92550	179000
MEDIAN	80900	81170	78870	77040	91920	114800	221600	392700	459900	248400	132000	91070	183200

JDA3A

USGS # 14092455 **PELTON**
Monthly mean historical streamflow in cfs.

River: DESCHUTES

Drainage Area: 7800 Sq. Mi.
River Mile: 102.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										3691	3595	3667	
1928-29	3887	4408	4378	4354	4268	4758	4368	3787	3709	3493	3378	3352	4010
1929-30	3514	3922	4534	4208	5035	4590	3751	3522	3447	3372	3282	3309	3867
1930-31	3360	3953	3891	3890	3932	4135	4170	<u>3431</u>	<u>3239</u>	3090	<u>3015</u>	<u>3022</u>	3591
1931-32	3098	3570	<u>3731</u>	3844	3900	5558	5210	4316	3739	3477	3276	3235	3913
1932-33	3295	4157	4228	4281	4062	4245	4851	4043	4540	3741	3446	3431	4024
1933-34	3395	4169	4665	4823	4366	4185	3723	3490	3625	3516	3461	3417	3901
1934-35	3624	4204	4462	4423	4434	4469	5126	4158	3946	3741	3496	3477	4127
1935-36	3386	4035	4095	4518	4501	5117	5815	4348	3906	3542	3476	3449	4179
1936-37	3328	3752	4114	4094	4174	4573	5757	4355	4172	3658	3375	3385	4058
1937-38	3507	4162	5000	4923	5140	6535	7995	5256	4081	3657	3567	3604	4781
1938-39	3882	4464	4476	4312	4363	5305	4288	3631	3485	3381	3304	3306	4015
1939-40	3266	3585	4015	4169	4653	5803	4903	3565	3294	3197	3124	3224	3897
1940-41	3347	3740	4014	4050	4118	5003	3995	3560	3293	3140	3125	3224	3716
1941-42	3202	3711	4486	4183	4710	4868	5405	3897	3573	3255	3133	3146	3958
1942-43	3164	4003	5658	6327	6186	6792	8119	5004	4397	4260	3751	3824	5115
1943-44	4027	4779	4705	4657	4622	4813	4200	3503	3528	3302	3224	3290	4052
1944-45	3371	3660	3818	4147	4689	4154	4821	4448	3686	3310	3270	3297	3883
1945-46	3415	3808	4685	5377	4666	5990	6436	4541	4016	3734	3552	3865	4505
1946-47	4224	4485	4982	4445	4959	5125	4366	3721	3854	3540	3437	3436	4210
1947-48	3924	3990	4142	4759	4588	4463	5413	5401	<u>5759</u>	3949	3712	3908	4497
1948-49	4230	3954	4284	4028	5319	6038	6142	4957	4216	3838	3699	3723	4529
1949-50	3740	3965	4210	4208	4866	5908	5979	4700	5487	4229	4116	4102	4621
1950-51	4328	5102	6014	5841	8187	7155	7083	5532	4382	4140	4309	4217	5506
1951-52	4773	4998	4930	4680	5493	6631	8495	5186	5269	4498	4307	4231	5285
1952-53	3933	4358	4386	5885	6807	5824	6141	5495	5232	4397	4278	4200	5065
1953-54	4208	5078	5829	5796	6731	6620	5869	4690	4798	4334	4245	4225	5192
1954-55	4105	4522	4581	4766	4904	4603	4388	4689	4451	4094	3815	3865	4395
1955-56	3911	4726	6520	6968	5585	7035	7287	<u>6949</u>	5475	4447	4287	4375	5632
1956-57	4666	4915	5260	4954	6001	7639	6760	5184	4200	3903	3835	3833	5090
1957-58	4400	4477	4137	5340	<u>8590</u>	6453	6435	5495	5138	4264	4061	4105	5216
1958-59	4197	5049	5201	5285	5274	5324	4750	4165	4090	3894	3857	3940	4581
1959-60	4015	4314	4306	4369	4556	5327	5284	4238	4287	3910	3816	3718	4343
1960-61	3771	4491	4412	4318	5486	5076	4350	4054	4179	3979	3947	3945	4326
1961-62	3980	4499	4693	4865	5263	5267	5461	4298	4153	4069	4120	3992	4550
1962-63	4309	4802	5530	4575	6626	4902	4629	4840	4048	4020	4039	4081	4688
1963-64	3971	4598	4395	<u>3305</u>	<u>3094</u>	<u>3455</u>	3613	3554	3492	<u>3059</u>	3064	3081	<u>3558</u>
1964-65	<u>3085</u>	<u>3521</u>	6090	<u>8097</u>	8182	4744	5243	4530	4307	4144	4171	4047	4995
1965-66	3872	4672	4645	5242	5323	4567	4055	3889	4039	3917	3715	3841	4308
1966-67	3798	4356	4730	4538	5037	4439	3904	4447	4090	3837	3751	3800	4223
1967-68	4106	4306	4981	4294	4063	4289	<u>3602</u>	3578	3649	3619	3621	3581	3976
1968-69	3540	4394	5172	4637	3326	3970	5430	4029	4591	3791	3820	3888	4219
1969-70	4007	4471	3951	5756	6214	4830	4654	4011	4008	3816	3808	3922	4442
1970-71	3776	4802	5057	6413	5489	4648	5527	4326	4526	4266	3993	4003	4730
1971-72	4483	4820	4998	6822	5738	<u>9590</u>	5421	4362	4845	4459	4291	4414	5357
1972-73	<u>5097</u>	5202	5067	6081	4098	4766	4155	4016	3921	3820	3800	3870	4497
1973-74	4078	5361	6023	6731	5474	5605	6804	5067	5134	<u>4786</u>	4382	4261	5307
1974-75	4625	4978	5221	5866	6002	6194	5401	5505	4767	4630	4375	4238	5146
1975-76	4593	5097	5766	6302	5827	5648	5986	4855	4571	4507	<u>4718</u>	4296	5179
1976-77	4666	4950	4967	5195	4071	4685	3938	3642	3920	3817	3882	3786	4297
1977-78	3966	4722	6017	5879	5498	4952	5406	4594	3829	3869	3848	3969	4709
1978-79	4008	4492	5063	5770	4553	6393	4944	5043	3923	3872	3845	3871	4653
1979-80	4245	4186	4286	5901	4550	5314	4862	3956	3951	3851	3774	3831	4393
1980-81	3922	4493	5225	4853	5283	4770	4615	4030	4129	3808	3797	3780	4386
1981-82	4158	4358	<u>6655</u>	5501	7794	7058	5445	5124	4725	4552	4191	4311	5309
1982-83	4715	4866	5378	6066	7189	8225	7409	6175	4919	4645	4337	4511	5694
1983-84	4575	5408	6379	6194	6605	7852	<u>8988</u>	6346	5019	4449	4229	<u>4553</u>	<u>5878</u>
1984-85	4672	<u>6124</u>	6288	5845	5539	5725	5440	4137	4638	4143	4061	4252	5068
1985-86	4508	5377	4693	4605	7681	9085	5884	4255	4439	4063	4050	4194	5219
1986-87	4356	4755	5152	4139	5060	5327	4873	4146	3949	4117	3872	3952	4471
1987-88	4417	4248	5232	4348	4118	4593	4220	3972	4106	3912	3821	3818	4236
1988-89	4135	4682	4129	4709	4297	5795	5900	4812	4012	3875	3934	4114	4533
MEAN	3970	4476	4884	5062	5265	5521	5369	4473	4233	3898	3788	3816	4559
MEDIAN	3980	4477	4705	4766	5037	5267	5284	4326	4106	3873	3815	3865	4497

PEL3H

USGS # 14092150

ROUND BUTTE

River: DESCHUTES

Drainage Area: 7490 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 110.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	979	1251	626	442	174	482	732	587	585	485
1964-65	602	481	1893	-70	-333	333	20	0	-7	-20	13	13	250
1965-66	-20	15	-167	-98	-382	289	311	11	-7	13	36	-45	-1
1966-67	24	-44	-70	80	-87	-198	146	137	8	-6	8	20	2
1967-68	11	-59	-675	107	650	-127	57	81	12	-24	13	12	1
1968-69	0	-60	-903	-127	913	249	-207	177	22	36	-16	-45	-3
1969-70	13	-350	210	60	-198	185	-133	156	44	23	-36	-195	-15
1970-71	194	-114	-350	-86	43	455	-82	158	-57	-3	18	12	16
1971-72	-143	2	60	-906	483	184	188	159	-10	16	-3	-13	-2
1972-73	-130	54	-525	-465	1147	21	7	8	29	-10	-11	13	2
1973-74	-8	-97	-18	81	-198	200	-64	93	-24	26	-18	27	2
1974-75	-33	-20	-2	-15	-2	-164	224	-83	71	5	-3	0	-3
1975-76	13	-5	13	-115	-70	-23	171	41	3	-24	-2	2	0
1976-77	-145	96	21	-317	380	-252	8	252	-10	15	-23	24	1
1977-78	1	-90	-112	-482	7	609	-45	29	84	-17	8	5	0
1978-79	-34	-23	-518	-1043	1300	-93	515	21	23	-30	23	-33	-3
1979-80	-177	33	160	-456	492	-136	-72	164	30	26	-23	15	2
1980-81	18	-63	4	-29	-80	83	31	30	-11	-15	15	19	1
1981-82	-15	27	-196	21	206	-253	229	-63	104	-38	2	-11	-2
1982-83	-16	7	-56	4	23	-18	7	49	26	1	14	-266	-19
1983-84	209	-141	-460	236	95	200	16	25	44	-14	12	-188	3
1984-85	171	-1	-6	-240	1	-98	250	135	-35	-3	9	-91	7
1985-86	1	-478	88	336	148	-90	-60	143	6	4	-5	-1	8
1986-87	-58	-107	-474	373	-65	260	-58	137	-29	6	18	-13	0
1987-88	-105	52	-615	272	371	-7	-6	40	31	-20	6	7	0
1988-89	-154	-316	169	-342	-17	657	-116	51	51	-10	11	-184	-15
MEAN	9	-48	-101	-86	234	111	68	82	34	26	25	-13	28

ROU3S

USGS # 14092455

PELTON

River: DESCHUTES

Drainage Area: 7800 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 102.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58		105	457	52									52
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 14092455

PELTON

River: DESCHUTES

Drainage Area: 7800 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 102.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	105	457	52	0	0	0	0	0	0	0	0	52
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	979	1251	626	442	174	482	732	587	585	485
1964-65	602	481	1893	-70	-322	-333	20	0	-7	-20	13	13	194
1965-66	-20	15	-167	-98	-382	289	311	11	-7	13	36	-45	-1
1966-67	24	-44	-70	80	-87	-198	146	137	8	-6	8	20	2
1967-68	11	-59	-675	107	650	-127	57	81	12	-24	13	12	1
1968-69	0	-60	-903	-127	913	249	-207	177	22	36	-16	-45	-3
1969-70	13	-350	210	60	-198	185	-133	156	44	23	-36	-195	-15
1970-71	194	-114	-350	-86	43	455	-82	158	-57	-3	18	12	16
1971-72	-143	2	60	-906	483	184	188	159	-10	16	-3	-13	-2
1972-73	-130	54	-525	-465	1147	21	7	8	29	-10	-11	13	2
1973-74	-8	-97	-18	81	-198	200	-64	93	-24	26	-18	27	2
1974-75	-33	-20	-2	-15	-2	-164	224	-83	71	5	-3	0	-3
1975-76	13	-5	13	-115	-70	-23	171	41	3	-24	-2	2	0
1976-77	-145	96	21	-317	380	-252	8	252	-10	15	-23	24	1
1977-78	1	-90	-112	-482	7	609	-45	29	84	-17	8	5	0
1978-79	-34	-23	-518	-1043	1300	-93	515	21	23	-30	23	-33	-3
1979-80	-177	33	160	-456	492	-136	-72	164	30	26	-23	15	2
1980-81	18	-63	4	-29	-80	83	31	30	-11	-15	15	19	1
1981-82	-15	27	-196	21	206	-253	229	-63	104	-38	2	-11	-2
1982-83	-16	7	-56	4	23	-18	7	49	26	1	14	-266	-19
1983-84	209	-141	-460	236	95	200	16	25	44	-14	12	-188	3
1984-85	171	-1	-6	-240	1	-98	250	135	-35	-3	9	-91	7
1985-86	1	-478	88	336	148	-90	-60	143	6	4	-5	-1	8
1986-87	-58	-107	-474	373	-65	260	-58	137	-29	6	18	-13	0
1987-88	-105	52	-615	272	371	-7	-6	40	31	-20	6	7	0
1988-89	-154	-316	169	-342	-17	657	-116	51	51	-10	11	-184	-15
MEAN	9	-34	-65	-68	234	86	68	82	34	26	25	-13	22

PEL3SS

USGS # 14092150

ROUND BUTTE

River: DESCHUTES

Drainage Area:

7490 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

110.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										3691	3595	3667	
1928-29	3887	4408	4378	4354	4268	4758	4368	3787	3709	3493	3378	3352	4010
1929-30	3514	3922	4534	4208	5035	4590	3751	3522	3447	3372	3282	3309	3867
1930-31	3360	3953	3891	3890	3932	4135	4170	<u>3431</u>	<u>3239</u>	<u>3090</u>	<u>3015</u>	<u>3022</u>	<u>3591</u>
1931-32	<u>3098</u>	<u>3570</u>	<u>3731</u>	<u>3844</u>	<u>3900</u>	5558	5210	4316	3739	3477	3276	3235	3913
1932-33	3295	4157	4228	4281	4062	4245	4851	4043	4540	3741	3446	3431	4024
1933-34	3395	4169	4665	4823	4366	4185	3723	3490	3625	3516	3461	3417	3901
1934-35	3624	4204	4462	4423	4434	4469	5126	4158	3946	3741	3496	3477	4127
1935-36	3386	4035	4095	4518	4501	5117	5815	4348	3906	3542	3476	3449	4179
1936-37	3328	3752	4114	4094	4174	4573	5757	4355	4172	3658	3375	3385	4058
1937-38	3507	4162	5000	4923	5140	6535	7995	5256	4081	3657	3567	3604	4781
1938-39	3882	4464	4476	4312	4363	5305	4288	3631	3485	3381	3304	3306	4015
1939-40	3266	3585	4015	4169	4653	5803	4903	3565	3294	3197	3124	3224	3897
1940-41	3347	3740	4014	4050	4118	5003	3995	3560	3293	3140	3125	3224	3716
1941-42	3202	3711	4486	4183	4710	4868	5405	3897	3573	3255	3133	3146	3958
1942-43	3164	4003	5658	6327	6186	6792	8119	5004	4397	4260	3751	3824	5115
1943-44	4027	4779	4705	4657	4622	4813	4200	3503	3528	3302	3224	3290	4052
1944-45	3371	3660	3818	4147	4689	4154	4821	4448	3686	3310	3270	3297	3883
1945-46	3415	3808	4685	5377	4666	5990	6436	4541	4016	3734	3552	3865	4505
1946-47	4224	4485	4982	4445	4959	5125	4366	3721	3854	3540	3437	3436	4210
1947-48	3924	3990	4142	4759	4588	4463	5413	5401	<u>5759</u>	3949	3712	3908	4497
1948-49	4230	3954	4284	4028	5319	6038	6142	4957	4216	3838	3699	3723	4529
1949-50	3740	3965	4210	4208	4866	5908	5979	4700	5487	4229	4116	4102	4621
1950-51	4328	5102	6014	5841	8187	7155	7083	5532	4382	4140	4309	4217	5506
1951-52	4773	4998	4930	4680	5493	6631	8495	5186	5269	4498	4307	4231	5285
1952-53	3933	4358	4386	5885	6807	5824	6141	5495	5232	4397	4278	4200	5065
1953-54	4208	5078	5829	5796	6731	6620	5869	4690	4798	4334	4245	4225	5192
1954-55	4105	4522	4581	4766	4904	4603	4388	4689	4451	4094	3815	3865	4395
1955-56	3911	4726	6520	6968	5585	7035	7287	<u>6949</u>	5475	4447	4287	4375	5632
1956-57	4666	4915	5260	4954	6001	7639	6760	5184	4200	3903	3835	3833	5090
1957-58	4400	4582	4594	5392	<u>8590</u>	6453	6435	5495	5138	4264	4061	4105	5268
1958-59	4197	5049	5201	5285	5274	5324	4750	4165	4090	3894	3857	3940	4581
1959-60	4015	4314	4306	4369	4556	5327	5284	4238	4287	3910	3816	3718	4343
1960-61	3771	4491	4412	4318	5486	5076	4350	4054	4179	3979	3947	3945	4326
1961-62	3980	4499	4693	4865	5263	5267	5461	4298	4153	4069	4120	3992	4550
1962-63	4309	4802	5530	4575	6626	4902	4629	4840	4048	4020	4039	4081	4688
1963-64	3971	4598	4395	4284	4345	<u>4081</u>	4055	3728	3974	3791	3651	3666	4043
1964-65	3687	4002	<u>7983</u>	<u>8027</u>	7860	4411	5263	4530	4300	4124	4184	4060	5189
1965-66	3852	4687	4478	5144	4941	4856	4366	3900	4032	3930	3751	3796	4307
1966-67	3822	4312	4660	4618	4950	4241	4050	4584	4098	3831	3759	3820	4225
1967-68	4117	4247	4306	4401	4713	4162	<u>3659</u>	3659	3661	3595	3634	3593	3977
1968-69	3540	4334	4269	4510	4239	4219	5223	4206	4613	3827	3804	3843	4216
1969-70	4020	4121	4161	5816	6016	5015	4521	4167	4052	3839	3772	3727	4426
1970-71	3970	4688	4707	6327	5532	5103	5445	4484	4469	4263	4011	4015	4746
1971-72	4340	4822	5058	5916	6221	<u>9774</u>	5609	4521	4835	4475	4288	<u>4401</u>	5355
1972-73	<u>4967</u>	5256	4542	5616	5245	4787	4162	4024	3950	3810	3789	3883	4499
1973-74	4070	5264	6005	6812	5276	5805	6740	5160	5110	<u>4812</u>	4364	4288	5309
1974-75	4592	4958	5219	5851	6000	6030	5625	5422	4838	4635	4372	4238	5144
1975-76	4606	5092	5779	6187	5757	5625	6157	4896	4574	4483	<u>4716</u>	4298	5179
1976-77	4521	5046	4988	4878	4451	4433	3946	3894	3910	3832	3859	3810	4297
1977-78	3967	4632	5905	5397	5505	5561	5361	4624	3913	3852	3856	3974	4708
1978-79	3974	4469	4545	4727	5853	6300	5460	5063	3946	3842	3868	3837	4650
1979-80	4068	4219	4446	5445	5043	5178	4790	4120	3981	3877	3751	3846	4395
1980-81	3940	4430	5228	4824	5202	4854	4646	4059	4118	3793	3812	3798	4387
1981-82	4143	4385	6460	5523	7999	6805	5674	5061	4828	4514	4193	4299	5307
1982-83	4699	4873	5321	6070	7211	8207	7416	6224	4945	4645	4351	4245	5675
1983-84	4784	5267	5919	6430	6700	8052	<u>9005</u>	6371	5064	4435	4242	4365	<u>5881</u>
1984-85	4842	<u>6123</u>	6283	5604	5540	5627	5690	4272	4603	4140	4070	4161	5075
1985-86	4509	4899	4782	4941	7829	8996	5824	4398	4445	4067	4045	4193	5227
1986-87	4297	4649	4677	4511	4994	5587	4815	4283	3920	4124	3890	3940	4471
1987-88	4312	4300	4616	4620	4489	4586	4214	4012	4137	3892	3826	3825	4236
1988-89	3980	4366	4298	4367	4280	6452	5784	4863	4063	3864	3945	3929	4518
MEAN	3973	4458	4850	5026	5365	5558	5398	4508	4247	3909	3799	3811	4571
MEDIAN	3974	4430	4616	4766	5043	5267	5284	4355	4118	3871	3813	3840	4497

ROU3A

USGS # 14103950

THE DALLES

River: COLUMBIA

Drainage Area: 237000 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 191.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										314400	172900	103700	
1928-29	87180	79680	65640	58770	58070	86600	104800	214600	384100	219700	136700	94440	132800
1929-30	<u>69430</u>	62690	62900	48740	83180	75590	147200	247800	296600	230600	149100	100800	131400
1930-31	76470	64450	59350	54870	56920	76190	132800	245800	272600	193800	126700	99460	121900
1931-32	70670	65970	59350	64810	59490	158700	236700	441900	479900	308000	164900	112700	185500
1932-33	78760	93190	94990	90490	70230	94660	152400	310800	619600	422600	211600	130800	198000
1933-34	103200	146400	191300	214900	156200	156100	295900	422900	379900	216900	148300	102900	211500
1934-35	74480	97960	93170	85800	105800	97650	143600	289100	440000	312300	188000	112200	170200
1935-36	77080	64870	56830	63550	55890	91100	201300	431400	414600	212900	137500	97870	158900
1936-37	70130	<u>57830</u>	<u>52380</u>	<u>42430</u>	<u>51420</u>	<u>69820</u>	117600	244000	348900	246200	142300	97670	128700
1937-38	72820	92810	99040	96310	87090	134900	228600	395300	513600	312200	140900	103900	190200
1938-39	92180	75480	68990	68170	66510	107300	184000	347100	305700	233400	143100	98810	149700
1939-40	76900	86070	81520	73330	88910	133400	209500	272400	317400	206600	127400	108200	148500
1940-41	92770	95090	81590	80770	82760	105800	148300	238500	245400	141500	123000	123100	130000
1941-42	121400	123600	164500	111700	112900	103600	197900	268100	388200	282100	161100	104900	178600
1942-43	82970	87710	102200	109400	117100	124500	334900	355200	487800	396000	185700	101200	207300
1943-44	88220	88650	76980	77850	76020	79980	<u>98350</u>	174200	290000	169500	123400	<u>92260</u>	<u>119600</u>
1944-45	87390	81760	73040	81770	90650	89650	115700	290800	426100	247500	128600	94650	150800
1945-46	76180	86770	89820	109000	87710	139100	237200	456800	495400	296700	157500	115400	196100
1946-47	93330	92100	144900	102100	124100	137100	192400	455100	454900	269700	151200	102500	193700
1947-48	126000	131700	112600	121900	115500	109100	175900	476100	<u>835700</u>	318900	180600	124400	235500
1948-49	99800	90130	88310	82670	112400	151200	223700	487800	408600	191600	127200	94860	180100
1949-50	86490	87430	99730	97810	128000	161000	214800	334000	592900	<u>487200</u>	192000	120500	217100
1950-51	109100	134300	142300	154700	195300	166300	253100	468400	458400	344800	179400	109700	226400
1951-52	121800	111700	115500	119200	131200	148400	254800	464200	406200	265100	142100	96000	198200
1952-53	86000	84850	80770	112200	139800	137600	155800	251900	509900	320100	155500	118800	179300
1953-54	100900	102300	103900	112400	124700	131800	159100	376600	502800	421400	215400	151900	209100
1954-55	109600	112800	103200	102200	108400	118600	142500	200600	448100	403400	181300	113500	179000
1955-56	103300	124800	152900	153900	129200	167800	340000	<u>530000</u>	639100	306000	158700	115400	243400
1956-57	109400	109400	113000	112600	120300	149500	188900	517700	479400	203300	125900	96230	194100
1957-58	99550	95330	96650	99970	148900	152100	210200	395500	453400	201200	120600	96530	180700
1958-59	99280	109900	128800	146700	144700	159400	209300	349000	511500	359400	166300	152700	211600
1959-60	<u>174800</u>	<u>162700</u>	143000	117400	125200	132500	261400	299300	386200	287500	151400	102500	195300
1960-61	96570	105500	94850	100900	165400	163100	174000	335300	591100	229600	123200	93310	189000
1961-62	92730	91920	89230	109200	128300	112300	215900	305200	395300	238100	156300	97440	169300
1962-63	108600	115700	137600	126800	163600	129800	167500	259500	392700	250200	138900	100400	174100
1963-64	91720	90720	95100	93160	107800	105300	139000	289000	576800	354600	162400	105500	184200
1964-65	121000	107700	165900	172800	234600	184500	245000	402800	486100	292400	167800	115700	224500
1965-66	107400	107500	114300	117400	122000	129800	149800	261900	336900	260100	135900	98960	162000
1966-67	96530	99350	116300	126400	131100	136200	146200	253900	578100	347500	154900	108500	191300
1967-68	108000	113800	132500	124700	148900	165900	122400	195800	357500	256800	139500	123200	165700
1968-69	117600	129200	142300	176000	173600	187000	<u>344300</u>	400500	339100	236500	122600	100900	205800
1969-70	115000	122900	127200	158500	146200	147800	150900	267600	342600	182000	128200	108800	166500
1970-71	113600	118800	128200	158100	194500	216100	254000	487000	490800	284900	161300	108100	226400
1971-72	116100	127700	146100	158500	187900	330500	291000	402300	569400	294700	180800	127300	<u>244100</u>
1972-73	121000	126700	153200	150500	137800	149200	139900	148500	143700	132600	128100	101600	136100
1973-74	111400	118800	168200	<u>252600</u>	236900	227100	309700	352300	481300	295300	167800	134700	237700
1974-75	130100	131700	136300	159800	179200	217300	210300	308900	328400	200800	131000	110800	187000
1975-76	118000	148600	<u>199300</u>	201700	216400	222200	266900	357600	292100	235900	<u>223100</u>	<u>160800</u>	220300
1976-77	141400	133300	132600	145600	124100	122900	103900	<u>136100</u>	<u>123700</u>	<u>88600</u>	<u>93720</u>	99010	120400
1977-78	95030	116900	156200	165900	167600	177400	232600	259100	236900	178300	123800	137600	170500
1978-79	129300	141400	143000	161200	160700	165400	179300	245000	174600	122900	109700	97550	152500
1979-80	108400	134600	137100	159700	144100	143000	155900	258600	283400	160200	117700	106200	159000
1980-81	105800	128600	174400	209500	200800	159300	159900	238900	366300	230400	162300	114800	187400
1981-82	124500	124400	162100	181300	<u>242300</u>	321000	285500	352600	381000	285400	161600	126500	228900
1982-83	127900	149600	157000	192500	237400	<u>345000</u>	274800	321600	294700	211000	166800	122500	216600
1983-84	117400	148900	188000	200000	215600	228500	288700	328300	361200	206600	140500	119200	211500
1984-85	129400	141000	161000	205500	206100	176900	212100	242900	192900	113800	96360	106500	165100
1985-86	127800	159700	169400	132400	204600	289900	268800	271900	264100	152500	126600	116100	190100
1986-87	124700	144300	152800	167800	144300	138400	150700	235700	152200	112900	107800	108600	145100
1987-88	124000	113200	148500	154600	137500	127600	135600	197200	169200	107200	102300	112500	135800
1988-89	111800	133600	161900	165400	152900	164400	204500	265800	196900	110100	95320	108800	155900
MEAN	104100	110300	121100	127800	137200	153000	200800	321900	394900	250200	147500	110700	181600
MEDIAN	105800	111700	127200	119200	131100	143000	197900	305200	388200	242100	142700	108200	184200

TDA3H

USGS # 14103950

THE DALLES

River: COLUMBIA

Drainage Area: 237000 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile: 191.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57						5400							459
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

USGS # 14103950

THE DALLES

River: COLUMBIA

Drainage Area: 237000 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 191.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-33315	-34590	-17527	
1928-29	-4954	-6806	-6440	-6556	-3423	5894	13026	66187	5077	-32833	-17706	-17410	-460
1929-30	9866	-9076	-234	-5609	6386	1221	54989	14964	11979	-25406	-19989	-14274	260
1930-31	-9991	-5208	-6506	-532	611	5559	15658	52383	366	-23948	-18330	-13462	-287
1931-32	-6875	-1991	-2454	-5713	6092	12286	34634	53457	12555	-54865	-20050	-21654	362
1932-33	-5517	4339	-4832	-5411	-5953	1753	36481	56317	46459	-64333	-32710	-18648	536
1933-34	6270	-5054	15367	-16284	-13240	12957	83777	17225	-48911	-23749	-21399	-17900	-853
1934-35	-1961	7428	-8248	261	-4485	-584	23502	68781	1850	-29013	-37160	-17029	278
1935-36	-9387	-6161	-4306	-2746	-4850	2735	67730	52023	-36432	-29860	-17107	-14607	-254
1936-37	-9724	-7628	-2089	-4652	-676	982	18251	63560	14357	-33817	-23256	-10232	396
1937-38	1527	-5630	-7074	-4140	-5153	6018	46420	65856	-3853	-49036	-22760	-7763	1186
1938-39	-12341	-7607	-4725	-3382	-7911	6294	42711	50377	-16679	-16489	-15040	-13732	178
1939-40	-1729	-11333	-2934	-9157	-2925	10286	21356	89363	-16968	-25627	-12303	-8186	2585
1940-41	1926	-14440	-4476	-7540	-8562	1853	31234	39056	43752	33506	-8959	-6067	8523
1941-42	1751	-10187	-11360	-19695	-14457	-11322	37316	78157	21370	-10808	-13854	-13307	2877
1942-43	-10093	-5855	-8451	-13725	-9228	467	66034	24522	15937	-20264	-22961	-12405	239
1943-44	-8226	-16328	-12039	-23406	-17859	-12815	27607	78616	9116	-11222	-10858	-3930	-61
1944-45	-11207	-10157	-18640	-9903	-6782	-3652	10494	87884	6380	-27657	-14636	-11601	-736
1945-46	-5644	-1395	-4762	-9032	-10164	-2812	41052	74161	-18019	-30490	-19571	-12551	124
1946-47	-6268	-703	-2020	-12393	-8781	-4264	40908	58406	-12505	-23715	-19725	-4422	392
1947-48	6320	-10231	-8346	-14583	-17147	-11377	45348	122250	-43806	-44698	-8006	-13014	383
1948-49	-8120	-8285	-16727	-22790	-9058	5035	46054	71646	-33740	-15360	-5370	-8074	-321
1949-50	-9542	2877	-8225	-24269	-15450	3103	16077	55626	77984	-58038	-17430	-14250	619
1950-51	109	-4572	745	-20948	-8292	-22101	32346	80676	-4322	-18342	-21459	-5124	758
1951-52	2911	-11792	-17546	-35994	-24208	-32574	97347	70562	25772	-11975	-5119	-10662	3814
1952-53	-19379	-29126	-24016	-1443	-16203	-34635	13523	125730	66330	-7820	-3191	-21623	4143
1953-54	-11666	-15318	-14595	-28753	-13431	-18480	31184	112461	27951	10058	-15121	-10756	4567
1954-55	-11951	-3666	-17242	-31013	-39231	-50504	-3046	117370	120311	-26239	-21890	-15544	1528
1955-56	-661	-4360	-341	-18173	-34315	-14343	22300	115126	-1358	-13727	-11718	-12959	2335
1956-57	-13276	-24742	-16757	-47025	-29838	2476	24553	153889	-3790	-8587	-11503	-9573	1627
1957-58	-17598	-23366	-19992	-23587	-10141	-27841	19991	165829	2484	-9639	1250	-6337	4439
1958-59	-6281	-2268	-7184	-11543	-38488	-44341	17842	77597	95451	-18487	-14714	-821	3986
1959-60	-8383	-14931	-18848	-37726	-26252	2334	13383	53427	86123	-10544	-14207	-5303	1542
1960-61	-11283	-15228	-24639	-29395	-10843	-22818	12383	139097	31179	-26809	1962	-11453	2774
1961-62	-6512	-21980	-19791	-37669	-29869	-16407	50398	72854	69817	-6897	-7929	-6871	3320
1962-63	-6386	-8777	-19921	-45245	-10668	-16723	12263	100691	44153	-4323	-2484	1844	3725
1963-64	-15154	-12665	-25989	-26815	-42583	-27308	25834	88709	101796	-17036	-5998	3387	3821
1964-65	-12604	-14873	-5230	-27830	-57737	-36120	51568	59556	85778	-6959	1158	-11426	2317
1965-66	-13360	-15018	-32148	-35044	-45899	-20978	56609	103434	57132	-8802	-274	-9396	3212
1966-67	-22218	-21124	-22398	-26744	-30380	-37042	-13096	144579	128440	-19005	-8647	-12195	5135
1967-68	-16010	-18653	-48282	-36658	-4583	-21821	5403	132868	108291	19475	5517	4410	10761
1968-69	-7295	-11769	-43660	-50080	-70431	-54167	22840	168181	147264	-1582	-10916	-11449	6711
1969-70	-23409	-46678	-57600	-45806	-32186	-38817	-20228	120476	184794	32865	-12798	-25784	2970
1970-71	-35823	-37674	-45308	-26058	-19331	-79051	3481	149647	135831	29963	2950	-12476	5533
1971-72	-24615	-38615	-63018	-53127	-52706	-16850	-37842	165053	212656	57394	-3255	-27545	9946
1972-73	-27847	-45550	-64170	-54821	-61913	-47528	-18678	148666	163614	44730	-23283	-27053	-864
1973-74	-34196	-2595	-26519	-37434	-84013	-48236	27637	128715	348504	99725	2748	-37726	28359
1974-75	-59325	-60154	-63854	-74730	-87222	-95846	-40284	120700	284555	144953	11444	-10860	6135
1975-76	-18350	-29042	-17506	-68452	-101691	-97028	10811	226012	156976	104085	6217	-14932	13524
1976-77	-58106	-62010	-69688	-88599	-65160	-63382	15460	85088	124523	32337	12145	-20921	-13066
1977-78	-33000	-45063	-17979	-74449	-69806	-27159	24062	132880	231654	103916	5431	-6485	19039
1978-79	-44703	-60348	-84462	-103732	-67002	-34504	-10115	169577	157421	52607	-3714	-18714	-3687
1979-80	-47276	-82414	-62475	-84696	-56062	-32896	91131	244233	112711	31639	-13400	-10825	7599
1980-81	-23490	-39370	-31912	-85515	-57234	-38238	23417	181517	86327	62315	-2344	-20882	4971
1981-82	-38016	-36347	-63298	-89244	-32258	-123928	-49933	134460	274979	75862	2019	-2974	4115
1982-83	-22746	-55641	-49933	-61144	-83352	-93780	-19459	143552	190206	92741	-6241	-21159	1536
1983-84	-30462	-15121	-85868	-48876	-89391	-33786	-9858	62713	237910	101139	8244	-13065	7022
1984-85	-35928	-35719	-75757	-129360	-119098	-72771	44593	194861	175328	52917	4359	-6096	264
1985-86	-25836	-51436	-95379	-47572	-31885	-15564	783	125604	205606	47271	-4417	-30878	6402
1986-87	-35136	-44284	-71918	-97836	-64092	7439	53217	148959	108391	43234	-13234	-38778	-31
1987-88	-68979	-60961	-87178	-95277	-73596	-41398	84908	131815	158615	57644	-5097	-45320	-3769
1988-89	-35685	-49543	-90137	-96543	-86798	-15284	71450	132792	201407	72829	30916	-20212	9940
MEAN	-16944	-21348	-28382	-36987	-33298	-24137	25550	104400	81590	8095	-9361	-13816	3154

TDA3SS

USGS # 14103950

THE DALLES

River: COLUMBIA

Drainage Area: 237000 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 191.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										281000	138300	86210	
1928-29	82230	72870	59200	52210	54650	92490	<u>117800</u>	280800	389200	186900	119000	77030	132300
1929-30	59560	53610	62670	43130	89560	76810	202200	262700	308600	205200	129100	86570	131700
1930-31	66480	59240	52850	54340	57530	81750	148500	298200	273000	169900	108300	86000	121600
1931-32	63800	63980	56890	59100	65580	171000	271300	495300	492500	253200	144800	91000	185900
1932-33	73240	97530	90180	85080	64270	96420	188900	367100	666100	358200	178900	112200	198500
1933-34	109500	141400	<u>206700</u>	198700	143000	169100	379700	440200	331000	193100	126900	84970	210600
1934-35	72520	105400	84920	86060	101300	97060	167100	357800	441800	283200	150800	95200	170500
1935-36	67700	58710	52530	60810	51040	93840	269000	483400	378200	183000	120400	83260	158700
1936-37	60400	<u>50200</u>	<u>50290</u>	<u>37770</u>	<u>50750</u>	70800	135800	307600	363200	212300	119000	87440	129100
1937-38	74340	87180	91960	92170	81930	140900	275100	461200	509800	263200	118200	96180	191300
1938-39	79820	67870	64270	64790	58600	113600	226700	397500	289000	216900	128100	85080	149900
1939-40	75170	74740	78590	64180	85980	143700	230900	361800	300400	181000	115100	100000	151000
1940-41	94700	80650	77110	73230	74200	107600	179500	277600	289200	175100	114000	117100	138500
1941-42	123100	113400	153100	91990	98440	92250	235200	346200	409500	271300	147300	91570	181500
1942-43	72880	81860	93730	95720	107900	125000	<u>401000</u>	379700	503700	375700	162800	88780	207500
1943-44	80000	72320	64950	54450	58160	67160	126000	252800	299100	158200	112600	88330	119500
1944-45	76180	71600	54400	71870	83870	85990	126200	378700	432400	219800	114000	83050	150100
1945-46	70520	85380	85050	100000	77550	136300	278300	530900	477300	266300	137900	102800	196200
1946-47	87060	91390	142800	89750	115300	132800	233300	513500	442400	246000	131500	98110	194100
1947-48	132300	121500	104200	107400	98350	97740	221300	598400	791900	274200	172600	111400	235900
1948-49	91680	81850	71590	59880	103400	156300	269800	559400	374900	176200	121800	86790	179800
1949-50	76950	90310	91510	73540	112500	164100	230900	389700	670900	429100	174600	106200	217800
1950-51	109200	129800	143100	133800	187000	144200	285400	549000	454100	326500	157900	104500	227200
1951-52	124700	99870	97950	83230	107000	115800	352100	534700	432000	253100	137000	85330	202000
1952-53	66620	55720	56750	110800	123600	102900	169300	377700	576200	312200	152300	97140	183500
1953-54	89190	86960	89310	83630	111200	113400	190300	489000	530700	<u>431500</u>	200200	141200	213600
1954-55	97670	109100	85980	71150	69200	68140	139500	318000	568400	377100	159400	97920	180500
1955-56	102700	120400	152600	135700	94930	153500	362300	645100	637800	292300	147000	102400	245700
1956-57	96080	84620	96210	65530	90450	151900	213400	<u>671600</u>	475600	194700	114400	86680	195700
1957-58	81950	71970	76650	76380	138800	124300	230200	561300	455900	191600	121900	90200	185200
1958-59	93000	107700	121600	135100	106200	115000	227200	426600	607000	340900	151500	<u>151900</u>	215600
1959-60	<u>166500</u>	<u>147800</u>	124200	79660	98990	134800	274800	352700	472300	276900	137200	97180	196900
1960-61	85280	90270	70210	71460	154500	140300	186400	474400	622300	202800	125100	81860	191800
1961-62	86220	69940	69440	71490	98460	95850	266300	378000	465200	231200	148300	90570	172600
1962-63	102200	107000	117700	81530	153000	113100	179700	360200	436900	245800	136500	102200	177900
1963-64	76560	78060	69110	66350	65270	77960	164800	377700	678600	337600	156400	108800	188000
1964-65	108400	92830	160700	144900	176800	148400	296600	462400	571900	285400	169000	104200	226800
1965-66	94010	92460	82150	82340	76070	108800	206400	365300	394000	251300	135600	89560	165200
1966-67	74310	78220	93900	99680	100800	99180	133100	398500	706600	328500	146200	96300	196400
1967-68	92020	95150	84190	88080	144300	144100	127800	328700	465800	276200	145100	127600	176500
1968-69	110300	117400	98670	126000	103200	132800	367200	568700	486300	235000	111700	89480	212500
1969-70	91570	76200	69550	112700	114000	109000	130700	388100	527400	214900	115400	83050	169400
1970-71	77780	81100	82850	132000	175200	137000	257500	636600	626600	314800	164300	95640	231900
1971-72	91500	89130	83100	103400	135200	<u>313700</u>	253200	567400	782100	352100	177500	99780	254100
1972-73	93170	81120	89030	95660	75890	101700	121200	297200	307300	177300	104800	74530	135300
1973-74	77190	116200	141700	<u>215200</u>	152800	178900	337300	481000	<u>829800</u>	395000	170400	96970	<u>266100</u>
1974-75	70820	71590	72420	85090	91990	121400	170000	429600	613000	345700	142500	99720	193100
1975-76	99610	119600	181800	133300	114700	125200	277700	583600	449100	340000	<u>229300</u>	145800	233800
1976-77	83310	71260	62950	56960	58900	<u>59540</u>	119400	<u>221200</u>	<u>248200</u>	<u>120900</u>	105900	78090	<u>107400</u>
1977-78	62030	71860	138300	91450	97840	150300	256700	391900	468600	282200	129300	131100	189600
1978-79	84630	81070	58550	57440	93710	130900	169200	414600	332000	175500	106000	78840	148800
1979-80	61090	52150	74620	75050	88040	110100	247000	502800	396100	191800	104300	95400	166800
1980-81	82320	89280	142500	124000	143600	121000	183300	420400	452700	292700	160000	93740	192400
1981-82	86520	88100	98770	92010	<u>210000</u>	197100	235600	487100	655900	361200	163600	123500	233000
1982-83	105200	93930	107000	131400	154000	251300	255300	465200	484900	303700	160600	101300	218200
1983-84	86900	133800	102100	151200	126200	194700	278900	389000	599100	307700	148700	106200	218600
1984-85	93450	105300	85270	76120	86970	104200	256700	437700	368200	166800	100700	100400	165300
1985-86	101900	108200	74040	84780	172700	274300	269600	397500	469700	199800	122200	85180	196500
1986-87	89540	99980	80890	69970	80160	145800	204000	384700	260600	156200	<u>94560</u>	69860	145100
1987-88	<u>55000</u>	52280	61310	59370	63900	86150	220500	329000	327800	164800	97170	<u>67210</u>	132000
1988-89	76140	84100	71730	68880	66120	149100	276000	398600	398300	182900	126200	88590	165900
MEAN	87160	88920	92760	90800	103900	128800	226300	426300	476500	258300	138100	96860	184700
MEDIAN	85280	86960	84920	83630	98440	121400	230200	398500	465200	253100	136700	95300	188000

TDA3A

USGS # 14128860

BONNEVILLE

River: COLUMBIA

Drainage Area: 240000 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 146.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										320400	175600	107000	
1928-29	90300	83150	68900	62100	61700	92600	111000	223500	390700	223800	139700	96750	137300
1929-30	<u>71650</u>	64850	66550	51300	92860	81130	153700	253200	299100	233800	151300	103100	135300
1930-31	78760	66820	61660	58200	60250	81800	142100	252900	277000	198600	129100	101500	126000
1931-32	73050	69170	62250	70400	66060	171000	246400	451800	487300	312300	168000	115500	191400
1932-33	81480	99330	100400	97160	75100	102600	162000	321400	632700	429500	215800	134300	204800
1933-34	107400	151000	<u>216400</u>	232800	165100	165600	304600	428600	384800	220400	151400	105800	219800
1934-35	78430	105400	101600	94370	113500	104700	151300	298500	447400	316700	191300	115100	176700
1935-36	79640	67560	60050	73590	60100	99100	210300	441300	421500	216800	140200	100400	164400
1936-37	72440	<u>59970</u>	<u>55960</u>	<u>44990</u>	<u>55190</u>	<u>77410</u>	128300	253400	357600	250600	145000	100100	133700
1937-38	75280	100000	110800	108700	94300	147500	241100	406500	521200	316600	144000	106700	198100
1938-39	94930	78970	73720	73210	72410	113600	190500	353000	309600	236200	145300	100900	154000
1939-40	79030	88140	86620	77400	100000	144500	217800	279200	321100	209200	129600	110500	153500
1940-41	95130	98490	86220	86460	88150	111100	153500	243500	248600	143900	125000	125600	133900
1941-42	124000	127400	173900	115800	121100	108800	204300	274000	392900	285100	163400	106800	183400
1942-43	84950	95210	112400	117600	127900	134500	352500	365700	496500	401300	189100	104000	215300
1943-44	91520	92330	81120	81490	80460	84080	<u>103100</u>	178800	293400	171800	125300	<u>94200</u>	<u>123100</u>
1944-45	89350	84420	75350	86510	97340	94880	121300	298600	430200	249900	130400	96450	154700
1945-46	77810	90860	97490	118500	94600	147200	244200	465400	501800	301000	160100	117500	201800
1946-47	95960	98020	157700	108500	132800	144000	198700	460200	458800	272300	153200	104500	199100
1947-48	131500	137500	117400	131300	123500	115600	182600	485100	<u>843000</u>	322500	183100	126500	241400
1948-49	102400	94900	95280	85490	120800	161400	233800	499900	415600	195700	130000	97360	186300
1949-50	89130	92310	105300	103100	137300	173900	225700	344200	602600	<u>492600</u>	195300	123100	224000
1950-51	113700	143200	155500	166800	209500	174300	263700	477900	464400	348500	182100	112100	234400
1951-52	127000	117200	123600	123400	141500	154400	263700	472200	411600	268600	144600	98040	204000
1952-53	87830	86750	83540	130200	151300	143900	161800	259400	515900	324000	158100	120900	185200
1953-54	103100	106500	113400	120200	134800	140500	169200	385100	510000	426300	218400	154400	215600
1954-55	112300	116900	107700	106700	113200	122800	148800	207700	456300	408100	184100	116000	183700
1955-56	107800	134500	167500	165600	134900	177500	<u>353000</u>	<u>543100</u>	648700	311500	162300	118400	<u>252000</u>
1956-57	112500	113100	119600	116000	125700	159500	197900	525400	483700	206100	128100	98130	199100
1957-58	101800	98330	104100	108800	162000	158500	218800	403200	458400	204300	122900	98620	186500
1958-59	99800	117900	135900	157400	150600	166400	213800	344300	504900	352800	168700	155200	214100
1959-60	<u>180300</u>	<u>166200</u>	148500	120400	137100	141800	272000	304100	391900	290600	153100	104900	200900
1960-61	100300	115600	101600	112600	189300	177100	180500	330300	587200	236500	127400	96700	195800
1961-62	95400	97000	100400	117500	135100	120700	224300	300900	389800	238400	157000	98900	172900
1962-63	110000	123300	145300	131400	172600	134200	174000	259100	393500	249900	139700	101600	177700
1963-64	91800	96700	100200	107900	115900	110900	141900	291300	577900	366500	164200	108500	189400
1964-65	123200	112700	185000	182500	243000	188800	248700	404300	481400	294500	171100	121400	229500
1965-66	111000	111300	118100	125400	126900	140000	159200	265600	339300	259300	138000	102100	166500
1966-67	99100	104100	125100	135600	138800	137400	148500	253200	571300	345200	153100	111300	193600
1967-68	111800	117900	137900	132300	167000	175000	129000	200600	369300	263500	141500	125800	172500
1968-69	121400	137300	148400	182600	180000	193800	345500	261700	332100	231600	124500	103400	196600
1969-70	116400	126000	133800	174800	154600	152500	153200	264700	338900	177900	125800	108000	168900
1970-71	114000	120600	133800	171600	202600	218900	256700	483100	486700	283000	158100	107100	228100
1971-72	115100	132500	153100	171000	200700	335500	289400	392600	541300	292400	186700	129200	244900
1972-73	123600	132000	165500	159900	142200	153200	143200	150600	144800	132300	126600	102200	139800
1973-74	112100	128700	184200	<u>267700</u>	245100	232900	309300	354600	467900	297500	172900	139900	242500
1974-75	136100	138700	144500	174300	189300	226100	216800	310400	328200	209300	137400	116200	193900
1975-76	123800	159600	216300	216600	223700	232000	270900	350900	292800	240800	<u>227500</u>	<u>168000</u>	227000
1976-77	147800	138700	141000	153900	129300	129700	111500	<u>140800</u>	<u>130600</u>	<u>94170</u>	99840	104700	126900
1977-78	102100	129500	181500	177800	179600	187500	242700	268600	244800	191600	133600	150300	182400
1978-79	136600	145900	154300	166300	177000	179200	188900	249100	179200	127800	112800	102200	159900
1979-80	113500	138700	143300	165600	152700	153900	167300	262200	284500	163700	120300	107100	164400
1980-81	106800	133000	187000	212500	210400	164300	170800	245600	359300	228900	160500	113700	190900
1981-82	126000	128500	170300	191100	<u>255600</u>	324800	294200	347400	371300	281900	163300	130300	231900
1982-83	132900	158100	170900	211000	252100	<u>350100</u>	283400	320500	292800	217000	168100	125900	223400
1983-84	120400	160800	195400	210200	223400	237900	289200	326400	354200	209000	143600	123200	215900
1984-85	132000	148200	166400	207000	209700	183000	218800	246100	198800	114400	99240	109300	169100
1985-86	131100	164300	173600	140800	217300	293300	269700	268000	257300	149600	125000	117200	191900
1986-87	124300	147900	155200	169800	151700	148300	151700	235800	150800	113200	107600	108900	147200
1987-88	124600	114100	151300	155400	140900	132300	139900	199800	170200	108800	103700	115400	138100
1988-89	113500	138000	161900	169600	152500	169200	210300	263100	195000	109900	<u>95090</u>	106700	157000
MEAN	107000	115500	129000	135900	145600	160300	207700	323700	396900	253100	149800	113300	186400
MEDIAN	107800	116900	133800	130200	138800	152500	204300	300900	391900	245400	145200	108300	189400

BON3H

USGS # 14128860

BONNEVILLE

River: COLUMBIA

Drainage Area: 240000 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 146.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										287100	141000	89470	
1928-29	85350	76340	62460	55540	58280	98490	<u>124000</u>	289700	395800	191000	122000	79340	136800
1929-30	61780	55770	66320	45690	99250	82350	208700	268200	311100	208400	131300	88830	135600
1930-31	68770	61610	55150	57670	60860	87360	157800	305300	277400	174700	110800	88040	125700
1931-32	66170	67180	59800	64690	72150	183300	281000	505300	499900	257400	148000	93850	191700
1932-33	75960	103700	95570	91750	69150	104400	198500	377700	679200	365200	183100	115700	205300
1933-34	113700	145900	<u>231800</u>	216500	151900	178600	388400	445800	335900	196700	130000	87900	218900
1934-35	76470	112800	93350	94630	109000	104100	174800	367300	449200	287700	154100	98070	177000
1935-36	70250	61400	55740	70840	55250	101800	278000	493300	385100	186700	123100	85790	164100
1936-37	62720	<u>52340</u>	<u>53870</u>	<u>40340</u>	<u>54510</u>	78390	146600	317000	372000	216800	121700	89870	134100
1937-38	76810	94370	103700	104600	89150	153500	287500	472400	517300	267600	121200	98940	199300
1938-39	82590	71360	68990	69830	64500	119900	233200	403400	292900	219700	130300	87170	154200
1939-40	77300	76810	83690	68240	97070	154800	239200	368600	304100	183600	117300	102300	156100
1940-41	97060	84050	81740	78920	79590	113000	184700	282600	292400	177400	116000	119500	142500
1941-42	125800	117200	162500	96110	106600	97480	241600	352200	414300	274300	149500	93490	186200
1942-43	74860	89350	103900	103900	118700	135000	<u>418500</u>	390200	512400	381000	166100	91800	215600
1943-44	83290	76000	69080	58080	62600	71260	130700	257400	302500	160600	114400	90270	123100
1944-45	78140	74260	56710	76610	90560	91230	131800	386500	436600	222200	115800	84850	154000
1945-46	72170	89470	92730	109500	84440	144400	285300	539600	483800	270500	140500	104900	202000
1946-47	89690	97320	155700	96110	124000	139700	239600	518600	446300	248600	133500	100100	199500
1947-48	137800	127300	109100	116700	106400	104200	227900	607400	799200	277800	175100	113500	241800
1948-49	94280	86620	78550	62700	111700	166400	279900	571500	381900	180300	124600	89290	186000
1949-50	79590	95190	97070	78830	121900	177000	241800	399800	680600	434600	177900	108800	224600
1950-51	113800	138600	156200	145900	201200	152200	296000	558600	460100	330200	160600	107000	235100
1951-52	129900	105400	106100	87410	117300	121800	361000	542800	437400	256600	139500	87380	207800
1952-53	68450	57620	59520	128800	135100	109300	175300	385100	582200	316200	154900	99280	189300
1953-54	91430	91180	98810	91450	121400	122000	200400	497600	538000	<u>436400</u>	203300	143600	220200
1954-55	100300	113200	90460	75690	73970	72300	145800	325100	576600	381900	162200	100500	185200
1955-56	107100	130100	167200	147400	100600	163200	375300	658200	647300	297800	150600	105400	254400
1956-57	99220	88360	102800	68980	95860	162000	222500	<u>679300</u>	479900	197500	116600	88560	200800
1957-58	84200	74960	84110	85210	151900	130700	238800	569000	460900	194700	124200	92280	190900
1958-59	93520	115600	128700	145900	112100	122100	231600	421900	600400	334300	154000	<u>154400</u>	218100
1959-60	<u>171900</u>	<u>151300</u>	129700	82670	110800	144100	285400	357500	478000	280100	138900	99600	202400
1960-61	89020	100400	76960	83200	178500	154300	192900	469400	618400	209700	129400	85250	198600
1961-62	88890	75020	80610	79830	105200	104300	274700	373800	459600	231500	149100	92030	176300
1962-63	103600	114500	125400	86160	161900	117500	186300	359800	437700	245600	137200	103400	181400
1963-64	76650	84040	74210	81090	73320	83590	167700	380000	679700	349500	158200	111900	193200
1964-65	110600	97830	179800	154700	185300	152700	300300	463900	567200	287500	172300	110000	231800
1965-66	97640	96280	85950	90360	81000	119000	215800	369000	396400	250500	137700	92700	169800
1966-67	76880	82980	102700	108900	108400	100400	135400	397800	699700	326200	144500	99110	198700
1967-68	95790	99250	89620	95640	162400	153200	134400	333500	477600	283000	147000	130200	183300
1968-69	114100	125500	104700	132500	109600	139600	368300	429900	479400	230000	113600	91950	203300
1969-70	92990	79320	76200	129000	122400	113700	133000	385200	523700	210800	113000	82220	171800
1970-71	78180	82930	88490	145500	183300	139800	260200	632700	622500	313000	161100	94620	233600
1971-72	90480	93890	90080	117900	148000	<u>318700</u>	251600	557700	754000	349800	183400	101700	254800
1972-73	95750	86450	101300	105100	80290	105700	124500	299300	308400	177000	103300	75150	138900
1973-74	77900	126100	157700	<u>230300</u>	161100	184700	336900	483300	<u>816400</u>	397200	175600	102200	<u>270900</u>
1974-75	76780	78550	80650	99570	102100	130300	176500	431100	612800	354300	148800	105300	200000
1975-76	105500	130600	198800	148100	122000	135000	281700	576900	449800	344900	<u>233700</u>	153100	240500
1976-77	89690	76690	71310	65300	64140	<u>66320</u>	127000	<u>225900</u>	<u>255100</u>	<u>126500</u>	112000	83780	<u>113800</u>
1977-78	69050	84430	163500	103300	109800	160400	266700	401500	476400	295500	139000	143800	201400
1978-79	91880	85520	69860	62550	110000	144700	178800	418700	336600	180400	109100	83470	156200
1979-80	66180	56280	80840	80900	96590	121000	258400	506400	397300	195400	106900	96320	172000
1980-81	83350	93630	155000	127000	153200	126100	194300	427100	445600	291200	158100	92790	195800
1981-82	87950	92140	107000	101900	<u>223300</u>	200900	244300	481800	646300	357800	165300	127300	236000
1982-83	110100	102400	120900	149900	168800	256300	263900	464100	483100	309700	161800	104700	225000
1983-84	89900	145600	109600	161300	134000	204100	279400	389100	592100	310100	151800	110100	222900
1984-85	96050	112500	90640	77620	90630	110200	263400	441000	374100	167300	103600	103200	169300
1985-86	105200	112900	78250	93180	185400	277700	270500	393600	462900	196900	120500	86280	198300
1986-87	89170	103700	83310	71960	87640	155800	205000	384800	259200	156500	<u>94360</u>	70100	147100
1987-88	<u>55590</u>	53180	64160	60160	67340	90930	224900	331600	328800	166400	98610	<u>70050</u>	134300
1988-89	77860	88440	71780	73090	65670	153900	281800	395900	396400	182700	126000	86540	167000
MEAN	90050	94160	100700	98900	112300	136200	233300	428200	478500	261200	140400	99500	189600
MEDIAN	89020	91180	90460	91450	108400	130300	238800	401500	460900	257000	139000	95470	193200

BON3A

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WILLAMETTE RIVER

**HILLS CREEK
LOOKOUT POINT
DEXTER
FALL CREEK
COTTAGE GROVE
DORENA
CARMAN SMITH
TRAIL BRIDGE
COUGAR
BLUE RIVER
LEABURG
WALTERVILLE
FERN RIDGE
DETROIT
BIG CLIFF
GREEN PETER
FOSTER
T. W. SULLIVAN
TIMOTHY MEADOWS
OAK GROVE
NORTH FORK**

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USGS # 14145200

HILLS CREEK

River: MF WILLAMETTE

Drainage Area: 392 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 232.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										368	286	243	
1928-29	273	335	460	690	645	1425	1375	1625	1170	410	278	217	742
1929-30	237	202	1375	730	2350	678	705	770	655	285	220	220	692
1930-31	255	454	512	591	518	1550	1580	650	367	<u>263</u>	<u>200</u>	200	595
1931-32	318	535	691	1240	1010	<u>3250</u>	2050	2130	1425	538	320	265	1149
1932-33	292	1034	1030	1375	1045	1460	1850	2210	<u>2950</u>	840	385	376	1235
1933-34	335	360	1400	1950	740	1075	1000	510	448	285	237	230	716
1934-35	420	1445	1960	1330	1852	980	1776	1424	942	414	268	234	1081
1935-36	279	377	563	2887	1333	1222	1747	1568	935	396	281	261	987
1936-37	221	212	<u>324</u>	<u>260</u>	625	1564	<u>2751</u>	2235	2000	617	343	288	952
1937-38	364	1609	1966	2105	1779	2276	2193	1977	1140	473	318	284	1371
1938-39	282	638	1002	821	1223	2112	1430	1012	651	367	268	249	836
1939-40	279	238	785	822	2036	2011	1201	738	344	272	233	282	766
1940-41	292	687	868	1175	788	554	614	957	683	357	262	322	629
1941-42	323	1450	2237	1344	1254	788	788	1349	1035	464	293	246	963
1942-43	243	2832	4575	2763	1963	1279	1915	1276	1620	767	423	353	1665
1943-44	587	974	519	748	948	921	1090	916	574	332	267	256	676
1944-45	246	374	398	1056	2109	1148	1733	2126	877	376	288	268	908
1945-46	261	1511	3051	2566	1419	1703	1377	1635	1191	596	380	355	1339
1946-47	450	1871	1840	1075	1450	1370	1570	891	893	492	388	312	1046
1947-48	877	1437	1066	2617	1873	1182	1534	1816	1803	645	400	369	1299
1948-49	407	918	1984	665	1737	1650	1919	<u>2435</u>	1058	491	354	304	1157
1949-50	341	586	737	1703	2224	2366	1803	1942	1992	803	397	328	1262
1950-51	1852	2541	2748	2713	2881	1530	1689	1486	787	445	365	338	1607
1951-52	806	1351	2265	1158	2205	1669	2237	1909	1300	790	441	388	1373
1952-53	337	342	756	3904	3013	1373	1314	1817	1829	884	424	348	1352
1953-54	408	2383	3009	2319	2579	1252	1838	1250	1146	557	411	383	1452
1954-55	365	412	656	925	807	1090	1573	1763	1723	657	368	358	891
1955-56	493	1694	<u>4779</u>	3496	1197	1675	2154	2270	1505	717	410	351	1735
1956-57	733	946	2133	701	2118	2700	1548	1297	667	403	334	314	1153
1957-58	403	614	2146	2159	3313	1041	1496	1536	1367	510	354	331	1259
1958-59	329	1183	1035	2037	1267	1125	1239	981	675	350	279	308	898
1959-60	409	359	386	630	1625	2389	2074	2154	1200	445	335	265	1020
1960-61	301	1549	1331	752	2802	2079	1339	1398	1010	403	283	<u>1</u>	1091
1961-62	<u>1</u>	<u>9</u>	1668	1140	<u>11</u>	310	1079	1347	951	546	709	856	725
1962-63	<u>1956</u>	2076	2254	484	578	149	1153	1985	632	563	622	828	1110
1963-64	1421	2940	1060	1617	751	249	752	1372	1530	724	707	798	1158
1964-65	1383	1894	4580	<u>5308</u>	1278	311	324	634	678	514	638	793	1537
1965-66	1346	1857	513	2031	321	476	663	854	574	386	293	<u>2283</u>	968
1966-67	1067	2056	1910	1268	1033	318	694	569	871	503	646	1086	1000
1967-68	1451	1362	775	1138	435	503	386	374	376	371	496	1345	751
1968-69	1055	2585	2755	1655	348	363	398	990	988	803	436	909	1112
1969-70	1341	2113	1835	1305	2236	354	723	1264	703	476	1221	1184	1222
1970-71	776	1464	2335	3174	1580	1297	1422	1486	1593	863	1031	1372	1533
1971-72	1489	1526	2886	1632	<u>4391</u>	1656	1119	1371	1162	517	1132	1378	1678
1972-73	1174	1113	1602	1241	303	286	303	305	422	509	915	1056	773
1973-74	1498	2640	4040	3298	1241	1665	1486	1138	1983	765	873	1165	<u>1821</u>
1974-75	1307	1298	1780	2142	401	1361	1195	1054	1519	735	956	1322	1262
1975-76	1457	1705	2618	2491	361	557	903	1097	839	544	702	1441	1231
1976-77	1572	962	575	370	255	<u>139</u>	<u>93</u>	<u>91</u>	<u>108</u>	413	1214	1116	<u>578</u>
1977-78	217	1622	3678	2069	677	306	232	229	581	406	1106	1435	1050
1978-79	1106	854	1330	1095	290	1199	1097	1529	632	<u>1165</u>	537	1199	1009
1979-80	1241	1328	1387	1887	651	299	510	701	784	403	1317	1118	971
1980-81	1114	1371	1981	1077	315	306	335	689	898	623	<u>1430</u>	1257	955
1981-82	1025	1116	3939	2870	2018	1146	1289	1138	1145	756	1145	1249	1570
1982-83	1431	1712	2897	1717	1652	1014	1288	1424	1113	743	985	1272	1437
1983-84	1198	2112	3076	1748	1044	1352	1354	1755	1863	665	591	1499	1522
1984-85	1574	<u>3492</u>	1697	853	271	288	782	962	1063	430	507	1448	1114
1985-86	1545	1758	1303	1738	1640	2044	335	1024	649	390	424	1368	1183
1986-87	1666	1953	1718	1002	1106	483	143	400	387	451	306	1179	898
1987-88	1271	1374	1619	1320	432	293	468	1310	1212	399	419	1308	953
1988-89	1542	1645	1300	1426	749	1437	1597	959	938	470	499	1268	1154
MEAN	807	1334	1798	1646	1329	1158	1223	1280	1052	535	531	716	1118
MEDIAN	587	1371	1668	1344	1223	1182	1289	1297	951	491	405	372	1110

HCR3H

USGS # 14145200

HILLS CREEK

River: MF WILLAMETTE

Drainage Area:

392 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

232.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	9	276	23
1961-62	442	1669	311	-90	1067	1106	856	211	78	-101	-335	-531	383
1962-63	-1100	-600	-578	10	1908	804	480	143	50	-126	-294	-490	3
1963-64	-1044	-1238	1	483	511	1028	600	167	359	-75	-313	-471	0
1964-65	-1079	-916	2154	-1669	331	559	1077	439	39	-116	-309	-512	-2
1965-66	-988	-1316	-7	20	427	1304	1104	309	10	13	-15	-1916	-87
1966-67	-715	-497	-52	772	234	764	161	1096	178	-84	-379	-849	54
1967-68	-989	-929	8	0	1869	390	277	369	77	-104	-213	-1062	-32
1968-69	-629	-649	-1069	85	769	1046	1284	896	24	-273	-120	-614	57
1969-70	-912	-1606	-264	2791	-796	963	100	114	30	-108	-963	-923	-120
1970-71	-402	341	-655	1002	209	872	247	764	111	-27	-610	-943	76
1971-72	-1047	-9	-753	1493	-1589	2378	459	473	30	-3	-750	-1017	-18
1972-73	-783	-602	-45	255	487	648	954	607	51	-184	-613	-711	2
1973-74	-1046	503	-452	293	524	860	390	628	72	4	-438	-783	42
1974-75	-918	-709	-218	55	1593	449	12	1013	69	-26	-561	-1007	-30
1975-76	-889	-545	-74	251	973	579	635	565	121	-12	-207	-1149	18
1976-77	-1185	-633	-303	-59	76	504	762	1075	468	-148	-1017	-850	-111
1977-78	147	471	-344	-39	342	612	745	784	-15	-5	-787	-906	82
1978-79	-855	-463	-198	184	1605	590	668	295	-7	-778	-250	-854	-17
1979-80	-711	-444	-155	758	397	830	983	248	2	-9	-999	-813	6
1980-81	-784	-496	489	-397	1293	654	847	335	18	-226	-1137	-963	-40
1981-82	-542	295	780	-1058	1226	781	497	433	2	-128	-732	-803	54
1982-83	-632	-685	-38	133	1207	1131	264	350	-2	-4	-558	-898	16
1983-84	-829	-569	-22	-76	1329	774	570	343	-6	6	-168	-1076	19
1984-85	-945	-633	-349	90	986	702	1122	339	13	6	-151	-1054	4
1985-86	-907	-1036	5	274	2198	-99	688	247	-2	1	-116	-865	18
1986-87	-1142	-224	-847	508	673	708	922	408	40	3	-10	-920	5
1987-88	-1019	-1016	-224	498	622	857	1067	150	5	-12	-133	-1019	-20
1988-89	-1266	-274	-461	239	361	1526	530	521	-10	-14	-81	-872	16
MEAN	-813	-458	-120	243	744	833	654	476	65	-90	-422	-848	14

HCR3S

USGS # 14145200

HILLS CREEK

River: MF WILLAMETTE

Drainage Area: 392 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 232.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										368	286	243	
1928-29	273	335	460	690	645	1425	1375	1625	1170	410	278	217	742
1929-30	237	<u>202</u>	1375	730	2350	678	705	770	655	285	220	220	692
1930-31	255	454	512	591	518	1550	1580	650	367	<u>263</u>	200	<u>200</u>	595
1931-32	318	535	691	1240	1010	3250	2050	2130	1425	538	320	265	1149
1932-33	292	1034	1030	1375	1045	1460	1850	2210	<u>2950</u>	840	385	376	1235
1933-34	335	360	1400	1950	740	1075	1000	<u>510</u>	448	285	237	230	716
1934-35	420	1445	1960	1330	1852	980	1776	1424	942	414	268	234	1081
1935-36	279	377	563	2887	1333	1222	1747	1568	935	396	281	261	987
1936-37	<u>221</u>	212	324	<u>260</u>	625	1564	<u>2751</u>	2235	2000	617	343	288	952
1937-38	364	1609	1966	2105	1779	2276	2193	1977	1140	473	318	284	1371
1938-39	282	638	1002	821	1223	2112	1430	1012	651	367	268	249	836
1939-40	279	238	785	822	2036	2011	1201	738	<u>344</u>	272	233	282	766
1940-41	292	687	868	1175	788	<u>554</u>	<u>614</u>	957	683	357	262	322	629
1941-42	323	1450	2237	1344	1254	788	788	1349	1035	464	293	246	963
1942-43	243	2832	4575	2763	1963	1279	1915	1276	1620	767	423	353	1665
1943-44	587	974	519	748	948	921	1090	916	574	332	267	256	676
1944-45	246	374	398	1056	2109	1148	1733	2126	877	376	288	268	908
1945-46	261	1511	3051	2566	1419	1703	1377	1635	1191	596	380	355	1339
1946-47	450	1871	1840	1075	1450	1370	1570	891	893	492	388	312	1046
1947-48	877	1437	1066	2617	1873	1182	1534	1816	1803	645	400	369	1299
1948-49	407	918	1984	665	1737	1650	1919	<u>2435</u>	1058	491	354	304	1157
1949-50	341	586	737	1703	2224	2366	1803	1942	1992	803	397	328	1262
1950-51	<u>1852</u>	2541	2748	2713	2881	1530	1689	1486	787	445	365	338	1607
1951-52	806	1351	2265	1158	2205	1669	2237	1909	1300	790	441	388	1373
1952-53	337	342	756	3904	3013	1373	1314	1817	1829	<u>884</u>	424	348	1352
1953-54	408	2383	3009	2319	2579	1252	1838	1250	1146	557	411	383	1452
1954-55	365	412	656	925	807	1090	1573	1763	1723	657	368	358	891
1955-56	493	1694	4779	3496	1197	1675	2154	2270	1505	717	410	351	1735
1956-57	733	946	2133	701	2118	2700	1548	1297	667	403	334	314	1153
1957-58	403	614	2146	2159	3313	1041	1496	1536	1367	510	354	331	1259
1958-59	329	1183	1035	2037	1267	1125	1239	981	675	350	279	308	898
1959-60	409	359	386	630	1625	2389	2074	2154	1200	445	335	265	1020
1960-61	301	1549	1331	752	2802	2079	1339	1398	1010	403	292	277	1115
1961-62	443	1679	1979	1050	1078	1416	1935	1559	1029	445	374	325	1108
1962-63	856	1476	1676	494	2486	953	1633	2128	682	437	328	338	1114
1963-64	377	1702	1060	2099	1262	1278	1351	1539	1889	649	394	328	1158
1964-65	304	978	<u>6733</u>	3639	1608	870	1401	1074	717	398	329	281	1534
1965-66	358	541	507	2050	748	1780	1766	1163	584	399	279	367	880
1966-67	352	1559	1858	2041	1267	1082	855	1665	1049	419	267	237	1054
1967-68	462	432	783	1138	2304	893	663	743	454	267	282	283	720
1968-69	425	1936	1687	1740	1117	1409	1681	1886	1012	529	315	295	1169
1969-70	428	507	1572	4096	1440	1317	823	1379	733	369	258	261	1101
1970-71	374	1805	1680	<u>4176</u>	1789	2169	1669	2250	1703	836	421	429	1609
1971-72	442	1517	2133	3125	2802	<u>4033</u>	1577	1845	1192	514	382	361	1660
1972-73	391	511	1556	1497	791	934	1257	912	473	324	302	345	776
1973-74	453	<u>3142</u>	3588	3591	1765	2525	1876	1766	2055	768	436	382	<u>1863</u>
1974-75	389	589	1562	2197	1994	1810	1208	2066	1587	709	395	314	1232
1975-76	568	1160	2544	2742	1334	1136	1538	1662	961	532	<u>495</u>	291	1249
1976-77	387	329	<u>272</u>	312	<u>331</u>	643	855	1167	577	265	<u>197</u>	266	<u>467</u>
1977-78	365	2093	3334	2030	1019	918	977	1012	566	402	318	<u>529</u>	1132
1978-79	251	391	1132	1279	1896	1789	1765	1824	626	387	287	345	993
1979-80	529	884	1231	2644	1047	1129	1494	949	785	393	318	305	977
1980-81	329	875	2470	679	1609	960	1182	1024	916	396	293	294	914
1981-82	483	1410	4720	1812	3244	1927	1786	1571	1147	628	412	447	1624
1982-83	799	1027	2860	1850	2859	2145	1552	1774	1111	738	427	375	1453
1983-84	369	1542	3054	1672	2373	2127	1923	2098	1857	671	423	424	1541
1984-85	629	2860	1349	943	1257	991	1903	1301	1076	435	356	395	1119
1985-86	637	722	1308	2012	<u>3838</u>	1944	1023	1271	646	391	308	503	1201
1986-87	525	1729	871	1509	1779	1191	1064	807	427	454	296	259	903
1987-88	252	357	1396	1817	1054	1150	1534	1460	1217	387	286	289	934
1988-89	276	1371	839	1665	1110	2963	2127	1480	928	456	418	396	1169
MEAN	434	1124	1743	1757	1671	1540	1523	1499	1081	494	334	319	1124
MEDIAN	374	978	1400	1672	1608	1373	1552	1536	1012	445	324	313	1115

HCR3A

USGS # 14149050

LOOKOUT POINT

River: MF WILL.

Drainage Area:

991 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

206.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	376	77	49	-294	200	1319	1738	947	-423	-634	-677	224
1954-55	-676	-467	893	-278	1008	1641	143	2296	133	-220	-426	-1006	253
1955-56	-2374	-439	2841	-3643	1593	1148	1509	1079	103	-80	-109	-1143	32
1956-57	-535	-2391	-47	-940	3931	-282	976	805	109	-112	-551	-1783	-94
1957-58	-1299	-1709	2158	-1121	911	638	1817	903	107	-42	-536	-1959	-14
1958-59	-2071	-758	98	1088	412	1913	1566	330	-18	-440	-785	-872	36
1959-60	-2334	-938	16	545	965	2189	1210	358	179	-412	-868	-1176	-26
1960-61	-1921	183	-1130	136	1563	1667	1563	485	34	-919	-1503	-1538	-131
1961-62	-1216	-124	454	-524	337	1631	3070	286	57	-366	-544	-598	200
1962-63	-1877	-626	-1270	37	3192	670	1344	419	36	-219	-629	-797	-2
1963-64	-1899	-1550	15	115	658	1371	1918	461	523	-202	-538	-922	-8
1964-65	-1545	-1220	3280	-1797	-783	563	1183	1220	606	-188	-583	-748	6
1965-66	-1777	-1983	8	13	409	1480	1901	1203	119	-208	-462	-836	-13
1966-67	-1566	-2025	-109	976	823	722	864	1214	902	-353	-397	-1467	-37
1967-68	-911	-2262	13	8	2415	774	331	315	7	-262	-213	430	46
1968-69	-1574	-1558	-598	-93	301	1428	2144	1569	109	-13	-1045	-898	-21
1969-70	-1442	-1042	-32	3150	-2206	1165	1153	968	-10	-483	-42	-800	52
1970-71	-2080	-850	-1026	3194	-1284	1300	859	957	-91	151	-772	-1215	-59
1971-72	-1834	343	-1898	1784	1109	1139	138	1263	-5	-175	-391	-2019	-48
1972-73	-719	-1692	-352	192	304	569	1458	1038	-50	-564	-806	84	-48
1973-74	-1040	400	-257	-250	816	1500	800	598	696	-46	-418	-1351	115
1974-75	-1972	-1400	-70	204	2124	1244	573	925	370	-173	-599	-1978	-75
1975-76	-1174	-1269	-48	192	1142	882	1385	1570	16	-210	-291	-1862	27
1976-77	-1418	-1472	-125	-131	86	685	1552	1879	340	-581	-117	-373	27
1977-78	-1673	601	-1054	-1029	1408	377	590	903	381	-73	-430	-907	-90
1978-79	-1159	-565	-665	549	2200	1283	1223	369	-14	-204	-1172	-1049	51
1979-80	-1152	-1129	-474	79	935	820	1746	1004	747	-438	13	-1606	42
1980-81	-1674	-1188	296	-658	1585	527	1359	1244	236	130	-499	-1659	-35
1981-82	-1413	-1577	2448	-1689	2388	333	1524	459	161	-191	-702	-1194	30
1982-83	-1084	-1710	-273	167	2335	1430	814	506	24	43	-702	-1311	7
1983-84	-1703	-1256	-137	168	2048	1469	940	569	-69	31	-296	-1706	-1
1984-85	-1403	-902	-1009	117	1056	741	2591	863	59	-253	-963	-1375	-50
1985-86	-985	-1573	-186	228	3999	-408	928	826	73	-190	-873	-1341	15
1986-87	-1144	-307	-1371	406	1296	849	525	380	-140	-293	-1623	-646	-185
1987-88	190	36	-930	531	1222	1007	2179	428	42	-696	-1243	-544	177
1988-89	-1078	-1492	-228	146	371	3048	1282	485	-20	-581	-1176	-1160	-33
MEAN	-1415	-987	-19	53	1121	1048	1291	887	186	-257	-637	-1111	10

LOP3S

USGS # 14149150 **DEXTER**
 Monthly mean historical streamflow in cfs.

River: MF WILL.

Drainage Area: 1001 Sq. Mi.
 River Mile: 203.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										960	720	625	
1928-29	700	840	1210	1840	1700	3920	3750	4200	3050	1070	740	564	1967
1929-30	580	575	3600	1700	6550	2040	1860	2080	1710	730	570	573	1850
1930-31	675	1110	1370	1560	1420	4300	4430	1660	955	675	512	<u>515</u>	1598
1931-32	835	1400	2060	3400	2660	<u>9410</u>	5600	5630	3880	1410	830	675	3155
1932-33	750	2725	2700	3640	2800	4100	4810	5160	<u>7300</u>	<u>2150</u>	980	938	3166
1933-34	840	950	3540	5350	1880	2825	2650	1315	1130	700	595	555	1867
1934-35	1080	3930	5640	3620	4110	2600	4830	3700	2560	1080	670	590	2856
1935-36	681	984	1341	6868	3599	3657	4700	4503	2340	1050	750	700	2597
1936-37	597	<u>570</u>	<u>970</u>	<u>866</u>	1943	4656	<u>7218</u>	5622	4606	1518	835	741	2508
1937-38	1028	4092	4995	5404	4517	5832	5670	4744	2358	1069	763	684	3423
1938-39	687	1727	2678	2324	3702	5746	4134	2666	1752	1020	684	621	2303
1939-40	776	653	1858	1875	5125	4794	2916	1700	859	<u>633</u>	<u>475</u>	625	1846
1940-41	695	1973	2400	2985	1849	1359	1519	2221	1686	952	692	893	1601
1941-42	918	3910	5857	3315	3295	2029	2021	3518	2593	1239	730	602	2498
1942-43	606	6771	10340	7925	6041	3633	5650	3395	4423	1835	1003	790	4353
1943-44	1364	2578	1494	1985	2800	2762	3399	2620	1556	837	627	602	1879
1944-45	<u>553</u>	962	1021	3264	6191	3369	5179	5570	2250	933	697	646	2526
1945-46	652	3812	6835	6448	3747	5139	3812	4233	2995	1457	881	804	3404
1946-47	1229	4985	6193	3243	4250	3926	4900	2390	2414	1321	965	819	3041
1947-48	2463	4972	3036	7141	5649	3737	4407	5012	4603	1601	1010	927	3702
1948-49	1112	2859	6144	1692	4853	4726	5350	<u>6752</u>	2654	1195	852	785	3238
1949-50	1014	1446	2151	4558	5719	6464	5207	5156	5497	1985	1023	861	3406
1950-51	4524	7333	6966	7237	<u>8224</u>	4297	4547	4021	1889	1084	863	789	4290
1951-52	2282	3384	6372	3271	6545	5050	6183	4974	3330	1889	1035	895	3756
1952-53	808	874	1824	9475	7724	3649	3380	5017	4469	1984	1135	892	3412
1953-54	1061	5314	8400	5833	6642	3216	3410	1360	2149	1959	1684	1632	3534
1954-55	1710	1627	981	3329	1511	1768	4670	2935	4621	2082	1359	1905	2373
1955-56	3901	5727	9820	12760	1906	3439	4289	4974	3823	1791	1124	2012	<u>4653</u>
1956-57	2527	4948	6515	2675	1630	8084	3389	2490	1572	1053	1294	2450	3234
1957-58	2285	3157	4015	7074	7588	2180	2468	2767	3228	1405	1382	2723	3326
1958-59	2860	4764	3185	4101	3204	1233	1760	2481	1771	1363	1529	1794	2498
1959-60	3731	2251	1265	1392	3631	4009	4352	5267	2690	1459	1654	1857	2792
1960-61	2638	4367	4656	1869	6954	3952	1831	3139	2139	1824	2131	1929	3094
1961-62	1847	2778	5087	3897	1270	1226	1531	3614	2325	1523	1707	1784	2395
1962-63	<u>5266</u>	5096	6628	1320	1264	1224	2616	5088	1626	1483	1653	2042	2957
1963-64	3414	7484	2947	5447	2394	1275	1319	3641	4189	1851	1818	2183	3161
1964-65	3338	4622	<u>11300</u>	<u>13510</u>	5297	1230	1233	1211	1183	1352	1698	1937	4000
1965-66	3678	4937	1385	5576	1233	1763	1349	1276	1211	1090	1083	3484	2343
1966-67	3216	6259	4547	3814	2681	1351	1290	1649	1480	1381	1441	2843	2659
1967-68	3032	4380	2188	3047	1176	1223	1249	1221	1154	1103	1201	1405	1867
1968-69	3426	7748	6692	5232	1894	1275	1313	2501	2965	1883	2002	2246	3272
1969-70	3549	3947	4472	4120	7062	1271	1249	2666	1839	1514	1644	2396	2951
1970-71	3336	5083	6006	6436	5738	3350	3393	3750	4064	1738	<u>2380</u>	3220	4028
1971-72	4005	3992	8798	5204	7634	7363	3968	3316	3243	1630	2046	<u>3932</u>	4586
1972-73	2378	3596	4324	3242	1109	1150	769	582	1121	1467	2050	1407	1942
1973-74	2928	6657	9556	8268	3563	4331	4070	3122	4564	1914	1842	2910	4484
1974-75	3576	3427	5134	6719	1587	3292	2577	3116	3409	1944	2106	3715	3400
1975-76	3677	5321	7792	7554	1603	1752	2215	2125	2314	1638	1755	3829	3475
1976-77	3366	2918	1231	1050	<u>668</u>	<u>525</u>	<u>437</u>	<u>526</u>	<u>816</u>	1383	1747	1992	<u>1392</u>
1977-78	2421	4616	10340	5471	1693	1251	1119	968	1130	1088	1986	2947	2934
1978-79	2648	2076	4888	2499	1419	2845	3024	3941	1595	1859	1996	2562	2626
1979-80	2928	3633	3740	5973	1259	1386	1185	1234	1349	1435	1641	2930	2399
1980-81	2961	3521	5531	3011	1267	1326	1226	1239	1931	1558	2234	3268	2432
1981-82	2993	4437	8901	8225	5155	3306	2576	2905	2627	1853	2347	3060	4032
1982-83	3722	5035	8130	4713	3651	2405	3119	3390	2541	1819	2243	3033	3652
1983-84	3357	5405	7754	4717	2891	3247	3590	4456	5072	1697	1516	3688	3950
1984-85	4050	<u>8779</u>	5080	2176	1276	1263	1198	2133	2627	1318	1935	3395	2938
1985-86	3648	4747	3393	4355	3491	5178	1227	2342	1585	1205	1729	3324	3018
1986-87	3488	5350	4541	2862	2541	1342	1102	1120	1150	1411	2357	2189	2454
1987-88	1409	1844	4795	3689	1141	1305	1136	3719	3269	1674	1984	2222	2358
1988-89	3022	5404	3014	4245	2269	2739	3760	2600	2324	1624	2196	2896	3007
MEAN	2276	3781	4748	4531	3511	3165	3100	3159	2616	1431	1373	1804	2958
MEDIAN	2463	3930	4547	3897	2891	3216	3119	3116	2340	1446	1371	1825	2957

DEX3H

USGS # 14149150

DEXTER

River: MF WILL.

Drainage Area:

1001 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile:

203.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55		57	39	33	265								31
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

DEX3F

USGS # 14149150

DEXTER

River: MF WILL.

Drainage Area: 1001 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 203.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	376	77	49	-294	200	1319	1738	947	-423	-634	-677	224
1954-55	-676	-410	932	-245	1273	1641	143	2296	133	-220	-426	-1006	284
1955-56	-2374	-439	2841	-3643	1593	1148	1509	1079	103	-80	-109	-1143	32
1956-57	-535	-2391	-47	-940	3931	-282	976	805	109	-112	-551	-1783	-94
1957-58	-1299	-1709	2158	-1121	911	638	1817	903	107	-42	-536	-1959	-14
1958-59	-2071	-758	98	1088	412	1913	1586	330	-18	-440	-785	-872	36
1959-60	-2334	-938	16	545	965	2189	1210	358	179	-412	-868	-1176	-26
1960-61	-1921	183	-1130	136	1563	1667	1563	485	34	-919	-1493	-1262	-107
1961-62	-775	1545	764	-614	1404	2737	3926	498	135	-467	-878	-1129	583
1962-63	-2977	-1226	-1848	47	5100	1474	1824	562	86	-345	-923	-1287	1
1963-64	-2943	-2788	15	598	1169	2399	2518	628	882	-277	-851	-1393	-8
1964-65	-2624	-2136	5433	-3466	-452	1122	2259	1659	645	-304	-892	-1260	4
1965-66	-2765	-3299	1	33	835	2784	3005	1513	129	-195	-477	-2752	-100
1966-67	-2282	-2523	-161	1748	1057	1486	1025	2310	1080	-437	-776	-2316	17
1967-68	-1899	-3192	21	8	4284	1165	608	684	84	-366	-427	-632	14
1968-69	-2204	-2206	-1667	-8	1069	2474	3428	2465	133	-286	-1166	-1512	36
1969-70	-2355	-2648	-296	5941	-3002	2128	1253	1082	20	-591	-1005	-1722	-68
1970-71	-2482	-509	-1681	4196	-1075	2171	1106	1721	19	124	-1382	-2158	17
1971-72	-2881	334	-2651	3277	-480	3517	597	1737	25	-178	-1141	-3035	-66
1972-73	-1502	-2294	-397	447	791	1217	2412	1645	2	-749	-1419	-627	-45
1973-74	-2085	902	-709	42	1340	2360	1190	1226	768	-42	-855	-2134	157
1974-75	-2889	-2109	-287	259	3717	1694	585	1938	439	-200	-1160	-2985	-104
1975-76	-2063	-1814	-122	443	2115	1461	2020	2135	137	-222	-498	-3011	45
1976-77	-2603	-2104	-428	-190	162	1189	2314	2954	808	-729	-1135	-1222	-84
1977-78	-1525	1072	-1398	-1068	1750	989	1335	1686	366	-78	-1217	-1813	-9
1978-79	-2014	-1028	-864	733	3805	1873	1891	665	-21	-982	-1421	-1903	34
1979-80	-1863	-1573	-629	836	1332	1650	2730	1252	748	-447	-986	-2419	48
1980-81	-2459	-1684	785	-1056	2879	1181	2206	1579	254	-97	-1636	-2622	-75
1981-82	-1955	-1282	3228	-2747	3614	1114	2021	892	163	-319	-1434	-1997	83
1982-83	-1717	-2395	-311	300	3542	2561	1077	856	22	39	-1259	-2209	24
1983-84	-2532	-1825	-159	92	3377	2243	1509	911	-75	37	-464	-2782	18
1984-85	-2348	-1535	-1357	207	2042	1444	3713	1202	72	-247	-1113	-2428	-46
1985-86	-1892	-2609	-181	502	6196	-508	1616	1073	70	-189	-989	-2206	33
1986-87	-2286	-532	-2218	913	1969	1557	1447	787	-100	-291	-1633	-1566	-180
1987-88	-830	-980	-1153	1029	1844	1864	3246	578	47	-708	-1376	-1563	157
1988-89	-2345	-1765	-689	385	732	4574	1812	1006	-31	-595	-1257	-2032	-18
MEAN	-2066	-1341	-111	243	1708	1695	1799	1257	236	-327	-977	-1794	22

DEX3SS

USGS # 14149050

LOOKOUT POINT

River: MF WILL.

Drainage Area:

991 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cubic feet per second

River Mile:

206.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										960	720	625	
1928-29	700	840	1210	1840	1700	3920	3750	4200	3050	1070	740	564	1967
1929-30	580	575	3600	1700	6550	2040	1860	2080	1710	730	570	573	1850
1930-31	675	1110	1370	1560	1420	4300	4430	1660	955	675	512	515	1598
1931-32	835	1400	2060	3400	2660	9410	5600	5630	3880	1410	830	675	3155
1932-33	750	2725	2700	3640	2800	4100	4810	5160	<u>7300</u>	<u>2150</u>	980	938	3166
1933-34	840	950	3540	5350	1880	2825	2650	<u>1315</u>	1130	700	595	555	1867
1934-35	1080	3930	5640	3620	4110	2600	4830	3700	2560	1080	670	590	2856
1935-36	681	984	1341	6868	3599	3657	4700	4503	2340	1050	750	700	2597
1936-37	597	<u>570</u>	970	866	1943	4656	<u>7218</u>	5622	4606	1518	835	741	2508
1937-38	1028	4092	4995	5404	4517	5832	5670	4744	2358	1069	763	684	3423
1938-39	687	1727	2678	2324	3702	5746	4134	2666	1752	1020	684	621	2303
1939-40	776	653	1858	1875	5125	4794	2916	1700	<u>859</u>	<u>633</u>	<u>475</u>	625	1846
1940-41	695	1973	2400	2985	1849	<u>1359</u>	<u>1519</u>	2221	1686	952	692	893	1601
1941-42	918	3910	5857	3315	3295	2029	2021	3518	2593	1239	730	602	2498
1942-43	606	6771	10340	7925	6041	3633	5650	3395	4423	1835	1003	790	4353
1943-44	1364	2578	1494	1985	2800	2762	3399	2620	1556	837	627	602	1879
1944-45	553	962	1021	3264	6191	3369	5179	5570	2250	933	697	646	2526
1945-46	652	3812	6835	6448	3747	5139	3812	4233	2995	1457	881	804	3404
1946-47	1229	4985	6193	3243	4250	3926	4900	2390	2414	1321	965	819	3041
1947-48	2463	4972	3036	7141	5649	3737	4407	5012	4603	1601	1010	927	3702
1948-49	1112	2859	6144	1692	4853	4726	5350	<u>6752</u>	2654	1195	852	785	3238
1949-50	1014	1446	2151	4558	5719	6464	5207	5156	5497	1985	1023	861	3406
1950-51	<u>4524</u>	7333	6966	7237	8224	4297	4547	4021	1889	1084	863	789	4290
1951-52	2282	3384	6372	3271	6545	5050	6183	4974	3330	1889	1035	895	3756
1952-53	808	874	1824	9475	7724	3649	3380	5017	4469	1984	1135	892	3412
1953-54	1061	5690	8477	5882	6349	3416	4729	3099	3096	1536	1049	954	3759
1954-55	1033	1216	1913	3084	2784	3409	4813	5232	4754	1863	933	900	2657
1955-56	1527	5288	12660	9119	3498	4587	5798	6053	3926	1711	1015	869	<u>4685</u>
1956-57	1992	2557	6468	1735	5561	7802	4366	3296	1681	941	744	667	3140
1957-58	986	1448	6173	5953	8499	2818	4285	3670	3335	1363	845	764	3312
1958-59	790	4006	3283	5190	3616	3146	3326	2811	1753	924	744	921	2534
1959-60	1397	1313	1281	1937	4596	6198	5562	5624	2868	1047	786	681	2766
1960-61	717	4551	3526	2005	8517	5618	3394	3624	2172	905	638	667	2986
1961-62	1072	4323	5852	3283	2674	3963	5457	4112	2460	1056	829	655	2978
1962-63	2289	3870	4781	1367	6364	2698	4440	5650	1711	1138	729	755	2958
1963-64	<u>471</u>	4696	2962	6045	3563	3674	3837	4269	5072	1574	967	790	3153
1964-65	714	2485	<u>16730</u>	10040	4845	2352	3493	2871	1828	1048	805	676	4004
1965-66	913	1637	1387	5609	2068	4547	4353	2789	1340	895	606	731	2244
1966-67	934	3736	4386	5562	3738	2837	2316	3958	2560	944	665	527	2676
1967-68	1132	1188	2210	3055	5460	2388	1857	1905	1238	737	774	773	1881
1968-69	1222	5542	5025	5223	2963	3749	4741	4966	3098	1596	836	734	3308
1969-70	1194	1298	4176	10060	4060	3399	2502	3748	1859	923	639	674	2882
1970-71	854	4574	4325	<u>10630</u>	4663	5521	4499	5471	4084	1862	998	1062	4046
1971-72	1124	4326	6147	8481	7154	<u>10880</u>	4565	5052	3268	1452	905	897	4520
1972-73	877	1302	3927	3689	1900	2367	3181	2227	1123	718	631	780	1897
1973-74	843	<u>7560</u>	8846	8311	4903	6691	5260	4349	5332	1872	987	776	4641
1974-75	687	1318	4847	6978	5304	4986	3162	5055	3848	1744	946	730	3295
1975-76	1614	3507	7670	7996	3718	3213	4235	4260	2451	1416	<u>1258</u>	818	3520
1976-77	763	814	<u>803</u>	<u>861</u>	<u>830</u>	1714	2751	3480	1624	654	612	769	<u>1308</u>
1977-78	896	5688	8941	4403	3443	2240	2454	2654	1496	1010	770	<u>1134</u>	2926
1978-79	634	1048	4025	3233	5224	4718	4915	4605	1574	877	575	660	2660
1979-80	1065	2060	3111	6809	2591	3036	3915	2486	2097	988	655	<u>511</u>	2446
1980-81	502	1837	6316	1956	4146	2506	3432	2818	2185	1462	598	646	2356
1981-82	1038	3155	12130	5478	8769	4420	4597	3796	2790	1533	913	1063	4116
1982-83	2006	2640	7819	5013	7193	4966	4196	4245	2563	1857	983	824	3676
1983-84	825	3580	7596	4810	6268	5490	5099	5368	4997	1734	1052	906	3968
1984-85	1702	7245	3723	2383	3318	2707	4911	3335	2699	1070	822	967	2892
1985-86	1756	2138	3211	4857	<u>9687</u>	4671	2842	3414	1655	1016	740	1118	3051
1986-87	1202	4818	2324	3776	4510	2899	2549	1908	1050	1120	724	622	2274
1987-88	579	864	3641	4718	2985	3169	4382	4297	3316	966	608	659	2515
1988-89	677	3639	2325	4630	3001	7312	5572	3606	2293	1029	939	864	2989
MEAN	1091	2990	4682	4675	4519	4166	4162	3901	2755	1241	806	762	2971
MEDIAN	913	2640	3927	4558	4146	3749	4382	3958	2460	1075	780	760	2978

LOP3A

USGS # 14149150

DEXTER

River: MF WILL.

Drainage Area:

1001 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

203.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										960	720	625	
1928-29	700	840	1210	1840	1700	3920	3750	4200	3050	1070	740	564	1967
1929-30	580	575	3600	1700	6550	2040	1860	2080	1710	730	570	573	1850
1930-31	675	1110	1370	1560	1420	4300	4430	1660	955	675	512	515	1598
1931-32	835	1400	2060	3400	2660	9410	5600	5630	3880	1410	830	675	3155
1932-33	750	2725	2700	3640	2800	4100	4810	5160	<u>7300</u>	<u>2150</u>	980	938	3166
1933-34	840	950	3540	5350	1880	2825	2650	<u>1315</u>	1130	700	595	555	1867
1934-35	1080	3930	5640	3620	4110	2600	4830	3700	2560	1080	670	590	2856
1935-36	681	984	1341	6868	3599	3657	4700	4503	2340	1050	750	700	2597
1936-37	597	<u>570</u>	970	866	1943	4656	<u>7218</u>	5622	4606	1518	835	741	2508
1937-38	1028	4092	4995	5404	4517	5832	5670	4744	2358	1069	763	684	3423
1938-39	687	1727	2678	2324	3702	5746	4134	2666	1752	1020	684	621	2303
1939-40	776	653	1858	1875	5125	4794	2916	1700	<u>859</u>	<u>633</u>	<u>475</u>	625	1846
1940-41	695	1973	2400	2985	1849	<u>1359</u>	<u>1519</u>	2221	1686	952	692	893	1601
1941-42	918	3910	5857	3315	3295	2029	2021	3518	2593	1239	730	602	2498
1942-43	606	6771	10340	7925	6041	3633	5650	3395	4423	1835	1003	790	4353
1943-44	1364	2578	1494	1985	2800	2762	3399	2620	1556	837	627	602	1879
1944-45	553	962	1021	3264	6191	3369	5179	5570	2250	933	697	646	2526
1945-46	652	3812	6835	6448	3747	5139	3812	4233	2995	1457	881	804	3404
1946-47	1229	4985	6193	3243	4250	3926	4900	2390	2414	1321	965	819	3041
1947-48	2463	4972	3036	7141	5649	3737	4407	5012	4603	1601	1010	927	3702
1948-49	1112	2859	6144	1692	4853	4726	5350	<u>6752</u>	2654	1195	852	785	3238
1949-50	1014	1446	2151	4558	5719	6464	5207	5156	5497	1985	1023	861	3406
1950-51	<u>4524</u>	7333	6966	7237	8224	4297	4547	4021	1889	1084	863	789	4290
1951-52	2282	3384	6372	3271	6545	5050	6183	4974	3330	1889	1035	895	3756
1952-53	808	874	1824	9475	7724	3649	3380	5017	4469	1984	1135	892	3412
1953-54	1061	5690	8477	5882	6349	3416	4729	3099	3096	1536	1049	954	3759
1954-55	1033	1216	1913	3084	2784	3409	4813	5232	4754	1863	933	900	2657
1955-56	1527	5288	12660	9119	3498	4587	5798	6053	3926	1711	1015	869	<u>4685</u>
1956-57	1992	2557	6468	1735	5561	7802	4366	3296	1681	941	744	667	3140
1957-58	986	1448	6173	5953	8499	2818	4285	3670	3335	1363	845	764	3312
1958-59	790	4006	3283	5190	3616	3146	3326	2811	1753	924	744	921	2534
1959-60	1397	1313	1281	1937	4596	6198	5562	5624	2868	1047	786	681	2766
1960-61	717	4551	3526	2005	8517	5618	3394	3624	2172	905	638	667	2986
1961-62	1072	4323	5852	3283	2674	3963	5457	4112	2460	1056	829	655	2978
1962-63	2289	3870	4781	1367	6364	2698	4440	5650	1711	1138	729	755	2958
1963-64	<u>471</u>	4696	2962	6045	3563	3674	3837	4269	5072	1574	967	790	3153
1964-65	714	2485	<u>16730</u>	10040	4845	2352	3493	2871	1828	1048	805	676	4004
1965-66	913	1637	1387	5609	2068	4547	4353	2789	1340	895	606	731	2244
1966-67	934	3736	4386	5562	3738	2837	2316	3958	2560	944	665	527	2676
1967-68	1132	1188	2210	3055	5460	2388	1857	1905	1238	737	774	773	1881
1968-69	1222	5542	5025	5223	2963	3749	4741	4966	3098	1596	836	734	3308
1969-70	1194	1298	4176	10060	4060	3399	2502	3748	1859	923	639	674	2882
1970-71	854	4574	4325	<u>10630</u>	4663	5521	4499	5471	4084	1862	998	1062	4046
1971-72	1124	4326	6147	8481	7154	<u>10880</u>	4565	5052	3268	1452	905	897	4520
1972-73	877	1302	3927	3689	1900	2367	3181	2227	1123	718	631	780	1897
1973-74	843	<u>7560</u>	8846	8311	4903	6691	5260	4349	5332	1872	987	776	4641
1974-75	687	1318	4847	6978	5304	4986	3162	5055	3848	1744	946	730	3295
1975-76	1614	3507	7670	7996	3718	3213	4235	4260	2451	1416	<u>1258</u>	818	3520
1976-77	763	814	<u>803</u>	<u>861</u>	<u>830</u>	1714	2751	3480	1624	654	612	769	<u>1308</u>
1977-78	896	5688	8941	4403	3443	2240	2454	2654	1496	1010	770	<u>1134</u>	2926
1978-79	634	1048	4025	3233	5224	4718	4915	4605	1574	877	575	660	2660
1979-80	1065	2060	3111	6809	2591	3036	3915	2486	2097	988	655	<u>511</u>	2446
1980-81	502	1837	6316	1956	4146	2506	3432	2818	2185	1462	598	646	2356
1981-82	1038	3155	12130	5478	8769	4420	4597	3796	2790	1533	913	1063	4116
1982-83	2006	2640	7819	5013	7193	4966	4196	4245	2563	1857	983	824	3676
1983-84	825	3580	7596	4810	6268	5490	5099	5368	4997	1734	1052	906	3968
1984-85	1702	7245	3723	2383	3318	2707	4911	3335	2699	1070	822	967	2892
1985-86	1756	2138	3211	4857	<u>9687</u>	4671	2842	3414	1655	1016	740	1118	3051
1986-87	1202	4818	2324	3776	4510	2899	2549	1908	1050	1120	724	622	2274
1987-88	579	864	3641	4718	2985	3169	4382	4297	3316	966	608	659	2515
1988-89	677	3639	2325	4630	3001	7312	5572	3606	2293	1029	939	864	2989
MEAN	1091	2990	4682	4675	4519	4166	4162	3901	2755	1241	806	762	2971
MEDIAN	913	2640	3927	4558	4146	3749	4382	3958	2460	1075	780	760	2978

DEX3A

USGS # 14150950

FALL CREEK

River: FALL CR.

Drainage Area:

186 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

7.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										60	40	37	
1928-29	75	122	252	457	405	950	660	550	370	70	42	23	331
1929-30	<u>13</u>	<u>14</u>	970	488	1520	467	335	235	182	39	26	27	353
1930-31	48	225	298	376	308	930	750	150	103	84	21	21	276
1931-32	75	335	548	870	704	1730	920	560	480	95	48	18	532
1932-33	56	500	735	960	717	945	880	782	<u>975</u>	116	27	64	561
1933-34	40	138	915	1390	475	604	504	152	117	<u>19</u>	<u>20</u>	<u>10</u>	366
1934-35	231	1060	1360	935	1020	615	870	475	492	75	34	30	596
1935-36	58	176	288	1874	1025	748	681	557	318	99	42	44	492
1936-37	27	26	305	169	1005	1475	<u>1729</u>	584	667	152	61	56	516
1937-38	211	1081	960	1059	1201	1597	994	440	118	50	32	37	645
1938-39	60	635	633	613	1385	1418	360	151	234	73	34	32	463
1939-40	90	46	355	328	1287	837	399	197	68	38	23	41	306
1940-41	92	654	642	750	254	149	214	392	316	96	59	113	311
1941-42	146	838	1326	617	805	511	280	773	494	161	58	37	502
1942-43	52	1588	2687	1731	1438	600	869	370	640	143	72	44	849
1943-44	254	480	263	324	691	639	837	265	155	65	42	48	336
1944-45	34	147	<u>139</u>	847	1421	992	1229	790	203	70	44	46	490
1945-46	41	1187	1496	1563	979	1275	439	222	154	72	45	42	625
1946-47	222	1113	1594	760	822	806	958	167	372	159	79	65	591
1947-48	697	1471	725	1437	1478	1018	833	659	273	109	66	92	735
1948-49	145	766	1905	328	1467	1094	549	666	131	62	38	51	596
1949-50	138	244	672	1193	1617	1648	939	623	385	108	57	56	635
1950-51	1001	1428	1228	2019	1277	1027	417	447	103	50	38	34	754
1951-52	689	787	1603	771	1341	1122	592	329	255	166	48	43	644
1952-53	28	39	406	1885	1895	983	583	957	521	107	71	51	620
1953-54	120	1220	2041	1413	1109	473	670	169	382	130	68	90	654
1954-55	138	161	620	782	681	1208	1447	725	288	131	51	59	523
1955-56	311	1442	2805	1945	942	1427	920	593	464	123	57	37	924
1956-57	461	491	1656	392	1281	<u>1806</u>	791	406	237	86	51	38	639
1957-58	121	235	1658	1192	1679	508	858	224	320	99	39	44	575
1958-59	63	1153	649	1253	958	805	461	581	203	73	39	121	527
1959-60	281	325	282	620	1089	1528	1052	<u>1149</u>	225	78	62	45	560
1960-61	93	1233	652	334	<u>2330</u>	1531	476	<u>534</u>	161	68	37	56	613
1961-62	211	1109	1495	634	426	1348	947	729	232	72	55	48	611
1962-63	280	670	892	214	1331	624	1199	1084	234	169	64	88	565
1963-64	100	1070	603	1914	785	1110	783	457	556	118	66	55	634
1964-65	55	727	<u>3180</u>	<u>2265</u>	740	292	435	354	119	62	48	31	696
1965-66	48	278	318	1447	52	444	100	48	<u>61</u>	498	<u>992</u>	84	369
1966-67	127	1086	929	1214	366	193	112	283	175	<u>970</u>	653	115	522
1967-68	287	411	673	775	127	50	133	50	108	755	934	188	378
1968-69	525	1474	1546	1012	348	390	275	240	512	466	735	602	679
1969-70	524	312	895	986	1391	43	164	557	425	688	518	352	567
1970-71	180	945	924	1799	831	1063	386	269	313	529	800	340	699
1971-72	450	905	2305	2093	864	1618	611	321	215	260	621	500	901
1972-73	363	487	675	599	37	42	44	80	148	103	105	357	255
1973-74	<u>1396</u>	1838	2312	1155	833	1189	767	261	296	82	293	802	<u>936</u>
1974-75	848	457	1288	1767	610	747	297	466	163	276	418	859	686
1975-76	627	1159	1487	2044	136	390	647	209	144	179	416	532	668
1976-77	561	358	183	<u>153</u>	<u>24</u>	<u>11</u>	47	351	169	61	142	761	<u>236</u>
1977-78	987	1257	2206	776	227	45	<u>43</u>	86	92	64	146	<u>913</u>	573
1978-79	827	525	1169	546	656	479	1010	413	158	47	78	609	542
1979-80	961	977	488	1315	72	110	280	169	339	108	83	842	480
1980-81	793	614	1169	227	94	77	435	403	486	145	145	659	439
1981-82	965	1016	2111	1510	901	329	550	110	95	73	105	610	698
1982-83	1092	900	1570	1038	577	398	536	451	218	248	172	745	663
1983-84	699	1162	1408	725	697	767	768	721	961	129	137	862	751
1984-85	952	<u>1996</u>	1028	408	102	69	440	131	338	32	36	770	525
1985-86	1192	1002	815	717	1138	616	81	450	144	48	32	886	590
1986-87	902	1686	573	565	345	44	100	<u>41</u>	64	29	33	643	417
1987-88	743	629	682	912	161	44	553	688	562	74	56	688	483
1988-89	834	1438	478	1397	88	1090	325	278	180	53	117	850	597
MEAN	388	784	1083	1014	829	772	599	419	294	153	154	265	562
MEDIAN	222	766	915	912	822	748	553	403	234	96	57	62	573

FAL3H

USGS # 14150950

FALL CREEK

River: FALL CR.

Drainage Area:

186 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

7.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	172	540	708	328	89	5	-434	-977	-44	28
1966-67	-6	-163	1	266	517	474	414	143	-22	-885	-606	-75	0
1967-68	-4	-168	-8	6	945	337	202	276	44	-713	-814	-15	2
1968-69	-135	-65	-153	154	518	715	448	176	35	-280	-708	-586	6
1969-70	-339	-90	156	1229	-622	535	511	143	-299	-652	-512	-292	-14
1970-71	4	-119	-12	654	69	430	423	246	5	-447	-777	-235	20
1971-72	-314	388	-553	492	641	334	343	237	-55	-221	-628	-474	12
1972-73	-326	-315	152	117	293	654	639	117	-22	-57	-82	-279	73
1973-74	-1267	250	-469	345	595	405	400	219	81	0	-250	-781	-45
1974-75	-816	-115	114	109	713	465	393	186	13	-184	-349	-841	-31
1975-76	-281	-295	115	20	723	482	411	166	37	-119	-343	-522	30
1976-77	-543	-278	-96	-21	83	777	493	565	22	-13	-100	-689	18
1977-78	-853	140	-275	-1	549	250	446	367	85	36	-36	-703	-4
1978-79	-807	-212	38	50	866	460	333	187	-40	-4	-43	-600	14
1979-80	-818	-469	157	154	388	714	372	156	35	-17	-57	-826	-18
1980-81	-754	-251	94	73	816	443	406	108	39	-33	-106	-613	13
1981-82	-755	-422	412	-107	689	340	380	119	36	34	-58	-542	7
1982-83	-763	-367	-30	9	821	621	277	124	7	-16	-91	-726	-16
1983-84	-668	-393	112	103	742	420	369	151	-2	1	-82	-842	-9
1984-85	-592	-208	-63	19	728	526	384	185	-2	-2	4	-702	19
1985-86	-820	-377	-27	159	1144	114	466	136	-19	15	-9	-669	2
1986-87	-750	-349	-152	235	575	563	246	121	22	99	6	-606	-2
1987-88	-726	-498	84	234	440	732	344	101	-4	11	-26	-654	3
1988-89	-828	-312	25	64	666	550	409	144	0	15	6	-806	-9
MEAN	-572	-204	-17	189	560	502	393	186	0	-161	-277	-547	4

FAL3S

USGS # 14150950

FALL CREEK

River: FALL CR.

Drainage Area:

186 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

7.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										60	40	37	
1928-29	75	122	252	457	405	950	660	550	370	70	42	23	331
1929-30	13	<u>14</u>	970	488	1520	467	335	235	182	39	26	27	353
1930-31	48	225	298	376	308	930	750	150	103	84	21	21	276
1931-32	75	335	548	870	704	1730	920	560	480	95	48	18	532
1932-33	56	500	735	960	717	945	880	782	<u>975</u>	116	27	64	561
1933-34	40	138	915	1390	475	604	504	152	117	<u>19</u>	20	10	366
1934-35	231	1060	1360	935	1020	615	870	475	492	75	34	30	596
1935-36	58	176	288	1874	1025	748	681	557	318	99	42	44	492
1936-37	27	26	305	169	1005	1475	<u>1729</u>	584	667	152	61	56	516
1937-38	211	1081	960	1059	1201	1597	994	440	118	50	32	37	645
1938-39	60	635	633	613	1385	1418	360	151	234	73	34	32	463
1939-40	90	46	355	328	1287	837	399	197	68	38	23	41	306
1940-41	92	654	642	750	254	<u>149</u>	<u>214</u>	392	316	96	59	113	311
1941-42	146	838	1326	617	805	511	280	773	494	161	58	37	502
1942-43	52	1588	2687	1731	1438	600	869	370	640	143	72	44	849
1943-44	254	480	263	324	691	639	837	265	155	65	42	48	336
1944-45	34	147	139	847	1421	992	1229	790	203	70	44	46	490
1945-46	41	1187	1496	1563	979	1275	439	222	154	72	45	42	625
1946-47	222	1113	1594	760	822	806	958	167	372	159	79	65	591
1947-48	697	1471	725	1437	1478	1018	833	659	273	109	66	92	735
1948-49	145	766	1905	328	1467	1094	549	666	131	62	38	51	596
1949-50	138	244	672	1193	1617	1648	939	623	385	108	57	56	635
1950-51	<u>1001</u>	1428	1228	2019	1277	1027	417	447	103	50	38	34	754
1951-52	689	787	1603	771	1341	1122	592	329	255	166	48	43	644
1952-53	28	39	406	1885	1895	983	583	957	521	107	71	51	620
1953-54	120	1220	2041	1413	1109	473	670	169	382	130	68	90	654
1954-55	138	161	620	782	681	1208	1447	725	288	131	51	59	523
1955-56	311	1442	2805	1945	942	1427	920	593	464	123	57	37	<u>924</u>
1956-57	461	491	1656	392	1281	1806	791	406	237	86	51	38	639
1957-58	121	235	1658	1192	1679	508	858	224	320	99	39	44	575
1958-59	63	1153	649	1253	958	805	461	581	203	73	39	121	527
1959-60	281	325	282	620	1089	1528	1052	<u>1149</u>	225	78	62	45	560
1960-61	93	1233	652	334	<u>2330</u>	1531	476	534	161	68	37	56	613
1961-62	211	1109	1495	634	426	1348	947	729	232	72	55	48	611
1962-63	280	670	892	214	1331	624	1199	1084	234	169	64	88	565
1963-64	100	1070	603	1914	785	1110	783	457	556	118	66	55	634
1964-65	55	727	<u>3780</u>	2265	740	292	435	354	119	62	48	31	696
1965-66	48	278	316	1619	592	1151	428	<u>137</u>	<u>66</u>	64	15	41	397
1966-67	121	923	931	1480	883	667	526	426	153	85	46	41	522
1967-68	283	243	665	781	1072	387	336	325	152	42	119	173	380
1968-69	390	1409	1392	1166	865	1105	722	416	547	186	27	16	685
1969-70	185	222	1051	2215	768	578	675	700	126	36	6	60	553
1970-71	184	826	912	2453	899	1493	809	515	318	81	23	105	719
1971-72	136	1293	1753	<u>2585</u>	1505	<u>1952</u>	954	559	160	39	<u>-7</u>	26	913
1972-73	37	172	827	716	330	696	683	197	126	46	23	78	328
1973-74	129	<u>2089</u>	1843	1499	1428	1594	1167	481	376	82	42	21	891
1974-75	31	342	1402	1876	1323	1213	689	652	176	93	68	19	655
1975-76	346	864	1602	2064	859	872	1058	375	181	61	73	11	698
1976-77	18	80	<u>87</u>	<u>132</u>	<u>107</u>	788	541	916	191	48	41	72	<u>253</u>
1977-78	133	1397	1931	775	776	295	489	453	177	100	110	210	569
1978-79	19	313	1207	596	1522	939	1343	600	118	43	35	<u>8</u>	555
1979-80	143	508	645	1469	460	824	652	325	374	91	27	16	462
1980-81	39	362	1263	301	910	519	841	511	525	112	39	46	452
1981-82	211	594	2523	1404	1591	668	930	228	131	108	47	68	704
1982-83	329	532	1540	1047	1398	1018	814	576	224	<u>232</u>	80	19	647
1983-84	32	769	1520	828	1439	1187	1137	872	959	129	55	20	742
1984-85	360	1788	965	427	830	595	824	316	336	30	41	67	544
1985-86	372	624	788	876	2282	730	547	586	125	63	24	<u>218</u>	592
1986-87	151	1337	420	800	920	607	346	162	85	128	39	37	415
1987-88	17	131	765	1146	601	775	897	789	558	85	30	34	486
1988-89	<u>Z</u>	1126	503	1461	754	1640	733	422	180	68	<u>123</u>	43	588
MEAN	172	708	1077	1089	1049	969	754	492	294	90	47	54	564
MEDIAN	121	635	915	935	979	939	750	475	232	83	42	44	569

FAL3A

USGS # 14153100

COTTAGE GROVE

River: COAST FK WILL

Drainage Area:

104 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

29.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										30	15	15	
1928-29	26	52	199	297	310	383	463	144	152	36	21	15	174
1929-30	18	18	450	238	750	167	151	168	116	32	17	18	175
1930-31	31	143	103	190	147	410	375	53	60	29	13	15	130
1931-32	72	245	498	563	478	896	389	235	121	36	21	15	298
1932-33	37	215	395	745	607	525	322	342	203	49	24	31	290
1933-34	34	38	334	513	144	158	178	78	49	21	16	14	132
1934-35	85	420	677	607	357	417	415	141	49	29	15	13	269
1935-36	51	113	194	1070	484	313	242	208	104	46	22	22	237
1936-37	<u>15</u>	15	86	100	585	612	<u>826</u>	223	<u>316</u>	83	39	29	241
1937-38	74	583	457	482	875	952	443	172	60	30	16	20	343
1938-39	29	215	259	313	706	590	90	49	48	20	<u>9</u>	<u>11</u>	192
1939-40	22	<u>13</u>	229	223	825	484	226	102	<u>32</u>	<u>13</u>	10	27	182
1940-41	46	217	414	389	192	113	181	181	124	48	27	51	165
1941-42	47	467	791	349	441	221	140	346	190	68	30	21	258
1942-43	24	380	1177	1363	486	78	232	133	283	68	53	231	376
1943-44	322	317	116	213	238	<u>23</u>	188	88	66	24	26	269	157
1944-45	225	73	73	246	421	502	356	257	90	35	34	375	222
1945-46	113	596	757	940	331	494	55	<u>48</u>	59	35	32	249	310
1946-47	295	517	517	301	304	229	345	68	142	53	46	46	238
1947-48	<u>767</u>	595	299	872	629	370	243	279	145	59	59	<u>465</u>	397
1948-49	104	255	910	201	790	195	68	239	66	54	56	211	259
1949-50	274	109	336	976	674	574	177	180	93	54	54	266	313
1950-51	594	<u>1000</u>	586	1127	558	400	87	91	58	63	102	218	406
1951-52	283	405	955	628	582	314	100	89	105	71	132	146	318
1952-53	194	31	344	1145	612	348	98	436	222	55	136	219	320
1953-54	208	632	870	940	553	134	225	67	70	50	50	212	333
1954-55	184	83	291	457	151	452	570	144	79	51	186	288	245
1955-56	77	604	<u>1627</u>	<u>1372</u>	447	574	192	145	140	62	100	258	<u>468</u>
1956-57	292	252	469	229	169	<u>1060</u>	192	73	74	46	<u>399</u>	46	278
1957-58	65	106	830	556	976	159	213	72	114	69	257	108	290
1958-59	146	350	237	691	569	158	135	97	78	46	363	66	243
1959-60	88	54	91	194	509	609	404	383	104	64	89	267	237
1960-61	151	499	301	124	<u>1140</u>	815	100	135	67	51	212	137	305
1961-62	157	695	723	227	154	551	143	180	91	52	67	269	276
1962-63	259	220	543	88	339	133	684	<u>503</u>	95	61	49	342	275
1963-64	157	448	242	1177	206	388	103	75	74	50	182	216	278
1964-65	83	317	1462	1146	269	79	73	73	60	49	220	162	335
1965-66	59	106	250	954	125	409	77	69	67	79	216	80	210
1966-67	34	312	473	450	300	160	102	109	80	<u>89</u>	257	83	204
1967-68	150	85	360	390	339	128	75	78	77	75	190	46	166
1968-69	230	523	764	650	491	323	90	76	122	54	78	233	302
1969-70	289	146	626	737	563	183	76	131	81	78	141	178	268
1970-71	164	355	561	973	271	721	278	85	138	77	288	251	349
1971-72	89	395	801	1044	470	778	328	113	82	76	81	315	382
1972-73	82	135	307	345	103	109	156	56	51	51	50	100	129
1973-74	359	983	1043	801	572	688	332	49	57	43	65	337	443
1974-75	106	116	351	544	528	476	244	175	71	49	90	279	251
1975-76	226	343	642	928	222	287	246	73	49	48	48	239	280
1976-77	191	87	<u>34</u>	<u>48</u>	<u>30</u>	29	<u>30</u>	86	51	43	40	252	<u>77</u>
1977-78	256	439	903	463	369	53	51	92	77	47	47	322	259
1978-79	220	89	293	235	544	231	414	159	64	45	44	224	211
1979-80	284	462	597	652	95	306	209	79	82	52	50	227	259
1980-81	203	138	609	118	196	98	249	84	144	52	52	223	180
1981-82	287	388	1218	822	532	262	387	66	66	54	51	135	355
1982-83	306	198	854	387	729	493	324	184	92	82	55	287	330
1983-84	191	483	621	242	572	360	376	214	222	54	43	252	301
1984-85	260	774	637	181	282	160	145	76	75	52	50	197	240
1985-86	209	169	329	398	875	290	83	176	71	57	57	226	241
1986-87	234	398	213	453	370	130	88	58	45	55	58	55	178
1987-88	104	69	454	613	148	84	128	236	186	54	50	201	195
1988-89	233	459	252	597	176	547	116	52	65	48	52	218	235
MEAN	171	311	525	563	441	364	230	145	100	52	86	167	262
MEDIAN	157	255	457	482	447	323	192	109	79	51	51	206	259

COT3H

USGS # 14153100

COTTAGE GROVE

River: COAST FK WILL

Drainage Area:

104 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

29.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	176	257	-390	159	206	154	13	-6	-10	-21	-193	28
1943-44	-222	-92	1	0	122	196	197	26	-2	-3	-15	-253	-4
1944-45	-214	-5	-7	1	175	167	139	33	-4	-11	-22	-359	-10
1945-46	-95	-14	112	-115	162	175	134	44	-4	-12	-22	-229	10
1946-47	-230	-2	-4	4	164	240	96	7	-12	-3	-14	-17	18
1947-48	-372	-75	24	-16	152	175	163	13	-9	-10	-28	-411	-33
1948-49	-49	4	5	-9	114	214	116	62	-13	-32	-41	-186	15
1949-50	-232	10	-2	3	168	170	151	16	0	-28	-39	-247	-4
1950-51	67	-255	6	-3	154	175	72	57	-18	-44	-91	-203	-7
1951-52	-96	34	-33	1	164	160	148	13	-2	-15	-127	-140	8
1952-53	-189	-7	4	-1	165	172	153	1	0	-8	-112	-204	-3
1953-54	-150	-6	-1	91	36	134	118	4	8	-21	-26	-195	-1
1954-55	-147	0	15	-13	108	182	119	76	-8	-12	-182	-257	-11
1955-56	21	-40	182	-186	149	126	127	87	3	-19	-79	-249	10
1956-57	-82	-58	1	-1	505	-168	86	106	-8	-22	-385	-32	-9
1957-58	-15	-16	63	79	-24	146	127	36	57	-22	-238	-93	8
1958-59	-124	-6	2	63	62	208	69	84	-6	-27	-351	-44	-6
1959-60	-41	-11	1	37	117	164	79	86	2	-42	-80	-233	6
1960-61	-117	28	-38	21	120	126	123	97	-5	-30	-187	-125	0
1961-62	-77	-49	-6	7	131	142	142	68	-4	-29	-45	-256	1
1962-63	-133	96	-105	6	170	205	33	74	7	-10	-32	-322	-2
1963-64	-118	-8	5	-4	131	141	112	58	33	-17	-165	-200	-3
1964-65	-64	8	232	-167	33	67	199	41	-14	-34	-202	-148	-5
1965-66	-33	0	0	3	133	138	86	-15	-46	-59	-212	-62	-7
1966-67	0	25	21	102	27	141	146	66	-17	-75	-248	-71	10
1967-68	-65	3	-3	8	171	97	57	36	-11	-59	-182	-1	5
1968-69	-117	-2	3	-15	157	111	127	86	11	4	-64	-215	6
1969-70	-208	-40	53	325	-215	123	127	83	-21	-63	-134	-162	-9
1970-71	-98	-11	48	46	57	114	145	89	-4	-32	-265	-199	-10
1971-72	-23	87	-40	46	160	83	128	64	2	-55	-67	-303	6
1972-73	-44	-52	40	54	81	226	95	22	-15	-41	-45	-69	21
1973-74	-322	147	-163	66	119	120	143	83	6	-20	-59	-340	-20
1974-75	-89	-16	39	17	135	136	112	82	-7	-16	-62	-256	6
1975-76	-111	-9	-7	-1	140	130	122	44	14	-25	-10	-216	6
1976-77	-164	-47	0	-5	31	255	101	113	1	-31	-30	-217	1
1977-78	-197	27	-33	8	110	86	194	86	-13	-12	-22	-213	1
1978-79	-198	-9	-17	17	148	139	115	80	-14	-28	-29	-197	0
1979-80	-213	5	-1	13	132	129	121	64	20	-18	-43	-219	-1
1980-81	-181	-13	3	34	129	172	57	85	-4	-21	-37	-196	2
1981-82	-210	-9	9	16	120	125	89	38	-23	-30	-40	-113	-3
1982-83	-161	11	-32	2	121	189	113	55	-2	-1	-21	-267	0
1983-84	-169	-13	-3	32	127	120	130	71	7	-15	-28	-248	0
1984-85	-184	128	-126	5	131	137	115	11	28	-38	-42	-187	-3
1985-86	-143	-2	-4	17	147	100	101	120	-22	-29	-47	-175	5
1986-87	-196	51	-54	12	119	121	33	-3	-22	-16	-45	-46	-5
1987-88	-96	-24	-22	39	47	153	185	52	-1	-22	-39	-187	7
1988-89	-215	-10	7	8	123	123	147	76	-4	-23	-30	-210	-2
MEAN	-130	-1	9	5	121	144	120	55	-3	-25	-91	-191	0

COT3S

USGS # 14153100

COTTAGE GROVE

River: COAST FK WILL

Drainage Area:

104 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

29.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE
1927-28										30	15	15	
1928-29	26	52	199	297	310	383	463	144	152	36	21	15	174
1929-30	18	18	450	238	750	167	151	168	116	32	17	18	175
1930-31	31	143	103	190	147	410	375	53	60	29	13	15	130
1931-32	72	245	498	563	478	896	389	235	121	36	21	15	298
1932-33	37	215	395	745	607	525	322	342	203	49	24	31	290
1933-34	34	38	334	513	144	158	178	78	49	21	16	14	132
1934-35	85	420	677	607	357	417	415	141	49	29	15	13	269
1935-36	51	113	194	1070	464	313	242	208	104	46	22	22	237
1936-37	15	15	86	100	585	612	<u>826</u>	223	<u>316</u>	<u>83</u>	<u>39</u>	29	241
1937-38	74	583	457	482	875	<u>952</u>	443	172	60	30	16	20	343
1938-39	29	215	259	313	706	590	<u>90</u>	<u>49</u>	48	20	9	11	192
1939-40	22	<u>13</u>	229	223	825	484	226	102	32	13	10	27	182
1940-41	46	<u>217</u>	414	389	192	<u>113</u>	181	181	124	48	27	51	165
1941-42	47	467	791	349	441	221	140	346	190	68	30	21	258
1942-43	24	555	1434	973	644	284	385	146	277	58	32	37	403
1943-44	101	225	117	213	360	219	385	114	64	21	11	16	153
1944-45	11	68	66	247	596	669	495	290	86	24	11	16	212
1945-46	18	582	869	825	493	668	189	92	55	23	10	20	320
1946-47	65	515	513	305	469	468	441	75	129	50	32	29	256
1947-48	389	520	324	856	781	545	407	292	136	49	30	54	364
1948-49	55	258	914	192	904	408	184	302	53	22	14	25	274
1949-50	42	118	335	978	842	743	328	197	92	27	15	19	309
1950-51	<u>661</u>	746	592	1124	712	574	159	147	40	19	12	14	399
1951-52	187	439	922	628	747	474	248	103	103	56	6	7	326
1952-53	<u>5</u>	24	348	1144	777	521	252	437	222	47	25	15	316
1953-54	58	627	869	1031	589	268	343	71	77	29	24	17	332
1954-55	37	82	305	445	259	633	689	220	71	39	4	31	235
1955-56	99	563	<u>1809</u>	<u>1186</u>	596	700	319	231	142	44	20	8	<u>478</u>
1956-57	210	194	470	228	674	892	278	178	67	24	14	14	268
1957-58	51	90	893	635	953	305	340	108	171	47	18	15	298
1958-59	22	344	239	754	631	367	203	181	73	19	11	22	236
1959-60	47	42	92	230	626	773	482	469	106	22	9	35	243
1960-61	34	526	263	145	<u>1261</u>	941	223	233	62	20	25	11	306
1961-62	80	646	717	234	285	693	285	249	87	22	22	13	278
1962-63	127	316	439	93	509	338	716	<u>577</u>	102	51	17	20	273
1963-64	39	441	247	1174	336	529	214	133	106	33	17	16	274
1964-65	20	325	1693	979	301	147	272	115	46	16	18	13	331
1965-66	26	105	250	957	259	547	163	54	<u>21</u>	20	<u>4</u>	18	203
1966-67	34	338	495	552	327	301	249	175	63	14	9	12	214
1967-68	85	88	358	398	509	225	132	114	66	16	29	45	171
1968-69	112	521	767	635	649	434	217	162	133	58	14	18	308
1969-70	81	106	678	1062	348	307	202	214	60	15	7	16	259
1970-71	66	344	609	1019	328	835	424	174	134	45	23	52	339
1971-72	66	482	761	1089	631	861	456	177	84	21	14	12	388
1972-73	38	83	347	399	183	335	251	78	36	<u>10</u>	5	31	150
1973-74	36	<u>1130</u>	880	867	690	808	474	132	63	23	6	<u>-3</u>	424
1974-75	17	100	391	560	663	612	355	257	64	33	28	22	257
1975-76	114	334	635	927	362	417	368	118	63	24	38	22	286
1976-77	27	40	<u>35</u>	<u>43</u>	<u>61</u>	284	131	198	52	12	10	36	<u>78</u>
1977-78	59	466	870	471	479	139	245	178	64	35	25	<u>110</u>	260
1978-79	22	80	276	252	692	370	529	238	50	17	15	26	211
1979-80	72	467	596	665	226	435	330	143	101	35	8	9	258
1980-81	22	125	612	153	325	271	305	169	140	31	15	26	182
1981-82	77	379	1227	838	653	388	476	105	43	24	11	22	352
1982-83	146	209	821	389	850	682	437	239	89	81	33	20	330
1983-84	22	470	618	274	698	480	505	285	229	39	15	3	301
1984-85	76	902	510	186	412	296	260	87	103	14	8	10	236
1985-86	66	166	325	416	1023	391	184	296	49	28	10	51	246
1986-87	38	449	159	465	489	251	121	54	22	39	13	10	174
1987-88	8	45	432	653	196	237	313	287	185	33	11	15	202
1988-89	18	448	259	605	299	670	263	128	61	25	22	8	234
MEAN	70	310	532	567	534	475	322	188	98	33	17	22	263
MEDIAN	46	258	450	513	509	434	305	174	77	29	15	18	259

COT3A

USGS # 14155100 **DORENA**
Monthly mean historical streamflow in cfs.

River: ROW

Drainage Area: 270 Sq. Mi.
River Mile: 7.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										56	21	21	
1928-29	46	133	522	750	750	950	1500	467	493	71	33	22	475
1929-30	29	30	1160	605	1810	417	424	550	370	61	25	27	451
1930-31	60	415	272	480	357	1030	1188	157	180	52	<u>19</u>	21	351
1931-32	164	740	1275	1390	1160	2110	1230	770	385	73	34	22	779
1932-33	75	647	1025	1800	1460	1305	990	1125	662	112	40	58	771
1933-34	67	92	865	1275	347	402	518	243	132	<u>35</u>	24	20	336
1934-35	197	1270	1685	1495	863	1025	1315	453	133	53	21	<u>19</u>	710
1935-36	85	288	450	3060	1210	867	965	755	337	96	41	41	683
1936-37	<u>24</u>	<u>23</u>	236	138	1010	2030	<u>2750</u>	1034	855	156	58	45	692
1937-38	184	1480	1455	1395	1975	2450	1555	750	156	47	23	29	952
1938-39	39	536	688	683	1640	2004	482	157	187	63	28	36	539
1939-40	83	40	547	507	1886	1254	531	264	<u>80</u>	37	20	71	438
1940-41	102	718	855	936	370	222	353	682	524	121	55	148	424
1941-42	141	1215	1896	873	1014	618	378	1101	581	174	59	35	672
1942-43	45	1953	3481	2261	1720	721	1221	447	833	138	65	40	1073
1943-44	254	541	262	492	1004	847	1139	339	170	60	35	42	428
1944-45	36	200	171	900	1678	1347	1717	1071	295	71	35	54	623
1945-46	53	1704	2098	1972	1241	1621	604	387	197	70	35	34	834
1946-47	182	1587	1504	841	1089	1176	1251	169	396	155	85	65	704
1947-48	842	1770	922	2058	1775	1340	1246	973	435	112	62	78	964
1948-49	114	802	2098	438	1942	1357	813	889	135	49	28	38	718
1949-50	90	232	755	2039	1876	1619	753	623	444	106	103	382	746
1950-51	1176	<u>2957</u>	1551	2612	1584	1095	370	235	120	96	50	90	991
1951-52	<u>1287</u>	1382	2329	1174	1648	1335	703	247	468	223	376	406	964
1952-53	407	58	695	2799	1950	897	424	1104	777	148	495	483	849
1953-54	277	1502	2900	1906	1699	301	653	208	205	150	512	355	885
1954-55	320	192	560	1199	534	999	1578	836	435	183	<u>899</u>	203	663
1955-56	175	1696	3827	<u>3336</u>	783	1477	937	757	518	141	830	193	<u>1229</u>
1956-57	552	788	1621	436	648	<u>2739</u>	689	197	198	<u>569</u>	404	101	749
1957-58	137	321	1586	1752	2435	373	667	186	354	464	756	123	754
1958-59	29	1017	668	1542	1143	590	475	360	205	449	550	111	592
1959-60	290	234	278	765	1245	1712	1237	1191	228	263	508	302	687
1960-61	129	1173	1093	328	<u>2568</u>	1683	313	457	214	117	258	371	712
1961-62	237	1589	2209	671	433	1128	746	850	279	173	565	526	787
1962-63	386	914	1133	179	1200	402	1588	<u>1515</u>	253	276	685	330	734
1963-64	211	1265	655	2582	824	1009	669	459	625	346	604	254	793
1964-65	122	687	<u>4277</u>	3046	1272	258	206	210	178	243	412	231	932
1965-66	174	254	449	2294	403	1305	440	208	208	233	352	117	541
1966-67	191	1188	1328	1327	1219	562	354	478	253	197	580	169	651
1967-68	366	206	753	991	881	318	201	198	189	244	699	119	431
1968-69	560	1697	1711	1533	867	1221	588	407	533	202	342	364	834
1969-70	553	286	1603	1980	1672	537	288	785	185	232	497	216	734
1970-71	310	1113	1401	2984	1067	1783	938	520	446	179	313	394	956
1971-72	508	1019	2560	2523	1838	2503	986	437	223	153	207	283	1105
1972-73	579	291	991	847	247	290	614	227	132	177	187	231	403
1973-74	605	2783	2891	2407	1476	1882	1096	453	362	156	218	366	1223
1974-75	464	368	1384	2004	1458	1261	814	812	249	187	244	407	803
1975-76	786	999	2194	2609	648	647	1062	289	204	135	153	540	858
1976-77	512	130	<u>108</u>	<u>100</u>	<u>69</u>	<u>55</u>	374	1081	206	182	218	393	<u>288</u>
1977-78	612	1277	2633	1076	977	207	200	320	216	132	203	<u>705</u>	712
1978-79	522	257	1354	787	1720	848	1580	547	159	99	89	486	697
1979-80	719	744	902	1888	259	712	739	289	450	107	93	406	611
1980-81	621	440	1824	268	455	386	896	516	518	104	100	466	550
1981-82	726	876	3377	1833	2049	598	1251	190	170	104	103	499	976
1982-83	857	694	2395	1152	1875	993	1045	603	261	287	141	695	911
1983-84	386	1345	2247	847	1654	1221	1332	894	<u>1090</u>	125	94	620	983
1984-85	731	2238	1613	542	858	342	731	197	307	100	96	545	687
1985-86	737	501	1094	1237	1970	1236	234	604	177	103	99	604	710
1986-87	591	1310	805	1124	990	475	<u>178</u>	<u>114</u>	89	93	94	321	512
1987-88	439	159	1296	1531	436	368	877	836	692	115	99	432	608
1988-89	552	1435	559	1763	582	1808	600	335	149	112	97	503	709
MEAN	357	882	1427	1416	1210	1054	846	550	336	154	229	247	724
MEDIAN	277	744	1296	1275	1200	1009	746	459	253	128	99	209	712

DOR3H

USGS # 14155100 **DORENA**
Monthly mean storage change, at site, in cfs.

River: ROW

Drainage Area: 270 Sq. Mi.
River Mile: 7.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	28	87	3	-1	309	313	289	187	-2	-23	-76	-355	62
1950-51	453	-1094	-6	0	301	295	246	259	-40	-72	-39	-78	19
1951-52	-635	-129	-66	12	260	311	303	244	-55	-24	-332	-343	-39
1952-53	-363	-15	4	1	298	306	302	247	-61	-38	-421	-419	-15
1953-54	-132	190	-242	276	-14	296	265	5	183	-49	-444	-288	3
1954-55	-203	-21	120	-117	237	449	216	224	-46	-63	-845	-153	-19
1955-56	81	-61	505	-520	304	293	295	204	-18	-41	-774	-154	8
1956-57	89	-193	5	4	1233	-472	186	218	-32	-530	-377	-76	-5
1957-58	10	-20	519	-176	-110	305	308	109	136	-383	-718	-109	-11
1958-59	41	52	28	190	107	463	121	177	-10	-398	-506	-33	19
1959-60	-73	-44	2	79	265	378	164	178	10	-223	-469	-271	-1
1960-61	-44	236	-292	31	285	294	323	203	-48	-77	-252	-333	25
1961-62	-15	-47	-340	28	237	486	247	103	-19	-120	-513	-490	-39
1962-63	1	93	-35	28	396	409	141	140	20	-127	-630	-256	12
1963-64	-114	30	39	57	183	366	276	206	-28	-242	-544	-206	1
1964-65	-81	222	660	-251	-394	109	425	198	-63	-213	-392	-213	3
1965-66	-126	-4	18	-13	298	304	229	17	-132	-172	-342	-82	-3
1966-67	-96	4	9	447	-172	278	322	170	-42	-167	-573	-135	5
1967-68	-147	-3	-7	11	445	235	221	199	-35	-220	-597	9	6
1968-69	-235	6	16	-27	342	207	383	187	8	-15	-316	-327	16
1969-70	-382	-44	21	1001	-795	352	364	55	-62	-209	-486	-174	-24
1970-71	-113	53	-15	277	-62	293	307	207	-12	-87	-297	-304	21
1971-72	-363	505	-515	422	145	78	240	197	-19	-116	-192	-240	10
1972-73	-486	-20	-10	121	168	560	254	4	-45	-163	-184	-170	1
1973-74	-475	368	-300	46	167	337	299	132	22	-83	-201	-350	-6
1974-75	-429	-22	27	-8	327	309	249	199	0	-84	-192	-379	-3
1975-76	-410	22	-27	31	276	329	253	181	8	-70	-36	-493	5
1976-77	-446	-32	-39	18	51	751	270	52	-5	-141	-178	-285	1
1977-78	-448	258	-277	14	269	190	458	203	-55	-45	-109	-407	1
1978-79	-469	86	-119	31	321	344	218	199	-39	-61	-61	-460	-3
1979-80	-440	-23	-2	50	303	299	239	181	10	-13	-72	-388	11
1980-81	-573	3	-5	61	497	286	89	156	11	-21	-84	-421	-3
1981-82	-548	-7	178	-33	167	283	284	153	-36	-25	-79	-378	-4
1982-83	-410	21	-116	12	262	580	87	135	14	-3	-62	-633	-10
1983-84	-332	-52	22	53	240	349	224	189	-8	-15	-61	-589	2
1984-85	-393	367	-352	-6	275	339	243	119	107	-65	-77	-500	2
1985-86	-430	7	-8	27	886	-252	360	177	-40	-49	-96	-443	5
1986-87	-433	257	-296	55	235	305	194	34	-12	85	-58	-298	3
1987-88	-411	-22	-94	105	149	411	289	125	1	-33	-81	-419	1
1988-89	-538	-3	-3	61	257	295	291	161	36	-61	-33	-480	-3
MEAN	-252	25	-25	60	224	302	262	158	-10	-111	-295	-303	1

DOR3S

USGS # 14155100	DORENA										River: ROW		Drainage Area:		270 Sq. Mi.
Monthly mean streamflow, adjusted for storage, in cfs.													River Mile:	7.6	
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.		
1927-28										56	21	21			
1928-29	46	133	522	750	750	950	1500	467	493	71	33	22	475		
1929-30	29	30	1160	605	1810	417	424	550	370	61	25	27	451		
1930-31	60	415	272	480	357	1030	1188	157	180	52	19	21	351		
1931-32	164	740	1275	1390	1160	2110	1230	770	385	73	34	22	779		
1932-33	75	647	1025	1800	1460	1305	990	1125	662	112	40	58	771		
1933-34	67	92	865	1275	347	402	518	243	132	35	24	20	336		
1934-35	197	1270	1685	1495	863	1025	1315	453	133	53	21	19	710		
1935-36	85	288	450	3060	1210	867	965	755	337	96	41	41	683		
1936-37	24	<u>23</u>	236	138	1010	2030	<u>2750</u>	1034	855	156	58	45	692		
1937-38	184	1480	1455	1395	1975	2450	1555	750	156	47	23	29	952		
1938-39	39	536	688	683	1640	2004	482	157	187	63	28	36	539		
1939-40	83	40	547	507	1886	1254	531	264	80	37	20	71	438		
1940-41	102	718	855	936	370	<u>222</u>	<u>353</u>	682	524	121	55	148	424		
1941-42	141	1215	1896	873	1014	618	378	1101	581	174	59	35	672		
1942-43	45	1953	3481	2261	1720	721	1221	447	833	138	65	40	1073		
1943-44	254	541	262	492	1004	847	1139	339	170	60	35	42	428		
1944-45	36	200	171	900	1678	1347	1717	1071	295	71	35	54	623		
1945-46	53	1704	2098	1972	1241	1621	604	387	197	70	35	34	834		
1946-47	182	1587	1504	841	1089	1176	1251	169	396	155	85	65	704		
1947-48	842	1770	922	2058	1775	1340	1246	973	435	112	62	78	964		
1948-49	114	802	2098	438	1942	1357	813	889	135	49	28	38	718		
1949-50	118	318	758	2038	2184	1932	1042	810	441	82	27	27	808		
1950-51	<u>1629</u>	1863	1545	2612	1886	1390	615	494	80	24	11	<u>12</u>	1010		
1951-52	652	1252	2263	1186	1909	1646	1006	491	413	199	44	62	924		
1952-53	45	42	699	2800	2248	1203	726	1351	717	110	74	63	833		
1953-54	145	1692	2658	2182	1685	596	918	213	388	101	68	67	888		
1954-55	116	171	681	1082	770	1448	1794	1060	389	119	54	50	644		
1955-56	256	1635	4332	2816	1087	1770	1232	961	500	100	56	39	<u>1237</u>		
1956-57	641	595	1626	439	1881	2267	876	415	166	39	28	25	744		
1957-58	147	301	2105	1576	2325	678	976	295	490	81	38	15	743		
1958-59	70	1069	696	1731	1250	1053	596	537	195	51	44	78	610		
1959-60	217	191	281	844	1510	2090	1402	1368	238	39	39	32	685		
1960-61	85	1409	801	358	2853	1976	637	660	166	40	5	38	737		
1961-62	222	1541	1869	699	669	1614	993	952	260	54	52	36	748		
1962-63	387	1007	1098	207	1596	811	1729	<u>1655</u>	272	150	56	74	746		
1963-64	97	1294	694	2639	1008	1375	945	664	596	104	60	48	793		
1964-65	41	909	<u>4937</u>	2795	879	367	632	408	115	30	20	18	935		
1965-66	48	250	467	2281	701	1608	669	225	<u>76</u>	61	10	36	538		
1966-67	95	1192	1337	1774	1047	840	676	648	211	29	7	33	656		
1967-68	220	203	746	1002	1325	553	422	397	154	24	102	128	437		
1968-69	325	1704	1727	1506	1210	1429	951	594	541	187	26	38	851		
1969-70	171	243	1624	2980	877	889	652	840	124	23	10	42	710		
1970-71	198	1166	1386	<u>3260</u>	1006	2076	1244	727	435	92	16	90	977		
1971-72	145	1524	2045	2945	1983	<u>2581</u>	1227	634	204	36	15	43	1114		
1972-73	93	271	982	968	415	850	868	230	87	<u>14</u>	3	61	404		
1973-74	130	<u>3151</u>	2591	2453	1643	2220	1395	586	384	73	17	16	1218		
1974-75	35	346	1411	1996	1785	1570	1063	1011	249	103	53	28	800		
1975-76	375	1021	2167	2640	924	976	1315	470	212	66	<u>117</u>	47	863		
1976-77	66	99	<u>69</u>	<u>118</u>	<u>119</u>	805	644	1133	201	41	40	108	<u>289</u>		
1977-78	165	1535	2356	1090	1245	396	658	523	160	87	94	<u>298</u>	714		
1978-79	53	343	1235	818	2041	1192	1798	746	119	39	29	26	694		
1979-80	279	721	900	1937	562	1011	978	470	460	94	20	18	622		
1980-81	49	444	1819	329	951	673	985	671	529	84	16	45	547		
1981-82	178	869	3555	1800	2216	881	1535	343	134	78	25	122	971		
1982-83	447	715	2279	1164	2137	1573	1132	738	275	<u>285</u>	79	62	901		
1983-84	54	1294	2269	901	1894	1571	1555	1083	<u>1082</u>	109	33	31	985		
1984-85	337	2605	1261	535	1132	681	974	316	414	35	19	45	689		
1985-86	307	509	1086	1263	<u>2857</u>	983	594	780	137	55	<u>3</u>	161	715		
1986-87	158	1567	509	1179	1225	781	372	<u>148</u>	77	178	36	23	515		
1987-88	28	137	1201	1637	586	779	1166	961	693	82	18	14	610		
1988-89	<u>14</u>	1432	556	1824	840	2103	892	495	185	51	64	22	706		
MEAN	191	899	1411	1455	1357	1251	1017	654	330	82	38	51	725		
MEDIAN	118	740	1235	1275	1241	1192	978	634	260	71	34	39	714		

DOR3A

USGS #	EUGENE												River: WILLAMETTE	Drainage Area:	Sq. Mi.
	Summation of monthly storage changes, at site and upstream, in cfs.													River Mile:	
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.		
1927-28										0	0	0			
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0		
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0		
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0		
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0		
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0		
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0		
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0		
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0		
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0		
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0		
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0		
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0		
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0		
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0		
1942-43	0	176	257	-390	159	206	154	13	-6	-10	-21	-193	28		
1943-44	-222	-92	1	0	122	196	197	26	-2	-3	-15	-253	-4		
1944-45	-214	-5	-7	1	175	167	139	33	-4	-11	-22	-359	-10		
1945-46	-95	-14	112	-115	162	175	134	44	-4	-12	-22	-229	10		
1946-47	-230	-2	-4	4	164	240	96	7	-12	-3	-14	-17	18		
1947-48	-372	-75	24	-16	152	175	163	13	-9	-10	-28	-411	-33		
1948-49	-49	4	5	-9	114	214	116	62	-13	-32	-41	-186	15		
1949-50	-204	96	1	1	476	483	440	203	-3	-51	-115	-602	58		
1950-51	520	-1349	0	-3	455	470	318	316	-58	-116	-129	-281	12		
1951-52	-731	-96	-99	12	424	471	451	257	-56	-39	-458	-483	-31		
1952-53	-552	-22	7	0	463	479	455	249	-61	-47	-533	-623	-19		
1953-54	-282	561	-166	416	-272	629	1702	1747	1138	-493	-1104	-1161	227		
1954-55	-1026	-432	1067	-375	1618	2271	479	2597	79	-295	-1453	-1416	255		
1955-56	-2272	-539	3528	-4349	2046	1567	1931	1370	87	-140	-963	-1546	50		
1956-57	-528	-2642	-41	-938	5669	-922	1249	1129	70	-664	-1312	-1891	-108		
1957-58	-1304	-1745	2740	-1218	778	1088	2252	1047	300	-448	-1492	-2162	-17		
1958-59	-2153	-712	127	1341	582	2584	1756	592	-33	-864	-1643	-949	48		
1959-60	-2448	-993	19	661	1346	2731	1453	621	190	-677	-1418	-1679	-21		
1960-61	-2082	447	-1460	188	1968	2086	2009	785	-19	-1026	-1933	-1720	-82		
1961-62	-867	1449	418	-578	1772	3365	4315	669	111	-616	-1436	-1875	546		
1962-63	-3109	-1037	-1987	81	5667	2089	1998	776	113	-482	-1585	-1865	11		
1963-64	-3175	-2766	60	651	1483	2906	2905	892	887	-536	-1561	-1798	-11		
1964-65	-2768	-1906	6325	-3885	-813	1299	2884	1899	568	-551	-1486	-1622	2		
1965-66	-2924	-3303	19	195	1806	3933	3648	1604	-44	-860	-2008	-2939	-82		
1966-67	-2383	-2656	-129	2564	1429	2379	1908	2690	1000	-1565	-2203	-2597	32		
1967-68	-2115	-3360	3	32	5844	1834	1089	1196	82	-1358	-2000	-638	27		
1968-69	-2691	-2267	-1801	103	2087	3508	4386	2914	187	-577	-2254	-2639	65		
1969-70	-3283	-2822	-67	8496	-4634	3138	2254	1362	-361	-1514	-2137	-2350	-116		
1970-71	-2688	-586	-1661	5173	-1011	3008	1981	2262	9	-442	-2721	-2896	49		
1971-72	-3581	1315	-3759	4237	466	4011	1308	2234	-48	-571	-2027	-4052	-38		
1972-73	-2357	-2682	-215	739	1332	2657	3401	1788	-80	-1009	-1730	-1145	50		
1973-74	-4150	1667	-1642	499	2220	3222	2032	1661	876	-145	-1365	-3606	87		
1974-75	-4224	-2262	-108	376	4892	2604	1338	2405	445	-483	-1763	-4461	-132		
1975-76	-2867	-2096	-40	493	3254	2403	2806	2526	196	-435	-886	-4242	86		
1976-77	-3757	-2461	-562	-198	327	2972	3179	3684	826	-914	-1443	-2414	-65		
1977-78	-3023	1496	-1983	-1048	2678	1514	2433	2342	383	-100	-1385	-3135	-11		
1978-79	-3488	-1163	-962	832	5141	2816	2557	1130	-113	-1074	-1554	-3160	44		
1979-80	-3333	-2060	-475	1052	2154	2792	3461	1653	813	-494	-1158	-3852	40		
1980-81	-3966	-1946	878	-888	4320	2082	2758	1928	300	-171	-1863	-3852	-64		
1981-82	-3467	-1720	3828	-2871	4591	1862	2774	1202	140	-340	-1610	-3029	83		
1982-83	-3050	-2730	-489	324	4747	3950	1555	1170	40	19	-1434	-3835	-3		
1983-84	-3701	-2282	-28	281	4486	3132	2231	1321	-78	7	-634	-4461	11		
1984-85	-3517	-1248	-1899	224	3176	2446	4455	1517	204	-352	-1229	-3817	-28		
1985-86	-3286	-2982	-220	705	8374	-545	2543	1505	-10	-252	-1141	-3493	44		
1986-87	-3666	-573	-2720	1216	2898	2546	1920	940	-113	-122	-1730	-2516	-183		
1987-88	-2063	-1524	-1186	1407	2481	3160	4063	855	43	-752	-1522	-2822	168		
1988-89	-3926	-2090	-660	518	1778	5542	2659	1386	2	-663	-1314	-3529	-32		
MEAN	-2163	-1107	-105	339	1905	1956	1922	1247	169	-453	-1232	-2102	21		

EUG3SS

USGS # 14158690

CARMEN DIV. INFLOW

River: MC KENZIE

Drainage Area:

146 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

87.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										523	462	427	
1928-29	391	389	418	439	334	496	567	806	780	546	445	426	504
1929-30	365	333	530	428	797	486	388	298	429	409	354	421	434
1930-31	328	311	377	397	339	641	908	367	415	403	346	421	438
1931-32	357	384	388	585	405	1040	947	1157	934	571	468	427	639
1932-33	384	573	535	502	354	500	635	991	<u>1716</u>	793	532	431	663
1933-34	422	421	913	960	543	601	546	331	437	431	392	424	536
1934-35	393	680	775	512	515	474	591	877	724	527	443	426	578
1935-36	369	354	390	868	441	554	675	857	639	522	437	426	545
1936-37	360	323	360	<u>330</u>	<u>295</u>	490	793	1111	1039	595	454	426	549
1937-38	379	626	729	741	528	636	801	1039	732	523	445	426	635
1938-39	367	408	557	460	424	576	691	627	536	464	397	423	495
1939-40	347	307	425	439	630	708	513	296	<u>367</u>	<u>381</u>	349	421	431
1940-41	326	387	459	488	383	<u>372</u>	<u>272</u>	<u>253</u>	388	383	<u>340</u>	421	<u>373</u>
1941-42	335	447	752	494	503	429	389	376	511	454	377	421	457
1942-43	<u>319</u>	738	1041	826	672	584	944	801	843	598	498	428	691
1943-44	429	518	473	430	423	433	456	395	442	418	367	422	434
1944-45	326	326	<u>343</u>	492	776	518	605	997	597	476	387	422	520
1945-46	329	448	723	812	516	592	506	971	845	592	476	428	604
1946-47	414	660	1051	589	667	654	712	425	563	493	419	424	589
1947-48	557	764	568	864	590	630	558	945	936	625	529	431	667
1948-49	476	516	733	475	450	636	782	<u>1619</u>	941	634	526	431	687
1949-50	449	465	627	496	638	882	746	1033	1371	<u>829</u>	592	434	714
1950-51	<u>587</u>	<u>1063</u>	1074	866	1114	693	922	1178	758	602	508	430	814
1951-52	540	650	693	514	625	499	787	1202	957	664	542	431	675
1952-53	427	389	378	1076	1148	622	587	1057	932	651	543	432	684
1953-54	443	619	1040	661	839	727	843	861	809	623	524	431	701
1954-55	463	491	469	510	466	426	421	726	1172	719	552	432	571
1955-56	519	793	1272	1064	716	590	822	1515	1245	746	605	435	861
1956-57	493	598	910	559	506	954	871	839	627	543	465	428	651
1957-58	395	423	723	770	1098	727	865	837	647	562	463	414	658
1958-59	374	608	747	817	644	556	761	762	600	490	414	<u>407</u>	598
1959-60	496	483	475	384	543	580	943	938	755	561	487	433	589
1960-61	410	690	681	617	<u>1217</u>	808	813	853	657	549	476	<u>444</u>	681
1961-62	439	572	731	724	601	523	<u>1015</u>	904	673	553	482	443	638
1962-63	506	614	825	530	867	636	681	732	562	505	434	426	608
1963-64	370	635	580	561	543	438	445	785	968	605	493	428	571
1964-65	385	387	<u>1416</u>	1057	993	684	823	791	644	550	471	428	718
1965-66	392	440	455	504	361	471	872	1037	627	515	437	426	546
1966-67	371	545	657	611	636	540	454	720	685	521	437	426	550
1967-68	404	566	443	579	864	796	584	393	523	453	403	425	534
1968-69	430	750	726	676	447	472	844	1294	895	634	510	429	677
1969-70	439	449	592	1099	986	729	599	588	557	488	430	426	613
1970-71	367	579	622	848	759	609	702	1366	1062	718	599	435	722
1971-72	487	653	859	728	900	<u>1374</u>	1012	1482	1075	725	611	436	<u>862</u>
1972-73	487	502	674	747	535	583	525	457	481	457	397	424	523
1973-74	361	763	889	<u>1169</u>	769	714	900	1310	1380	770	<u>620</u>	436	840
1974-75	473	468	867	919	810	778	531	1066	880	644	536	431	701
1975-76	469	653	943	905	650	573	650	1335	799	620	542	431	715
1976-77	430	418	369	359	314	397	480	465	480	400	365	422	409
1977-78	340	659	1291	771	712	625	495	470	506	455	407	426	596
1978-79	356	330	573	449	601	750	674	752	539	471	412	424	528
1979-80	351	399	574	832	608	615	566	365	493	446	392	423	505
1980-81	329	398	891	667	707	597	506	381	608	471	388	424	530
1981-82	376	462	1117	637	1141	819	681	1032	782	611	524	430	716
1982-83	474	658	949	878	909	1017	865	745	649	608	513	430	724
1983-84	423	589	786	811	815	854	779	919	858	604	519	431	699
1984-85	465	927	573	451	409	477	776	845	726	550	461	428	591
1985-86	413	534	467	625	940	1008	619	542	529	473	421	426	581
1986-87	391	570	627	479	675	665	597	407	467	449	405	424	512
1987-88	338	<u>305</u>	585	526	533	633	747	597	614	489	419	425	517
1988-89	352	535	620	524	439	674	985	789	622	516	440	426	577
MEAN	410	534	694	658	650	642	690	818	738	552	463	427	606
MEDIAN	393	518	657	611	625	615	681	837	657	545	457	426	596

CAR3H

USGS # 14158795

SMITH R. RES. INFLOW

River: SMITH

Drainage Area:

18 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

2.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	50	160	26	-26	-18	27	23	20
1963-64	-11	-8	-13	-12	-4	9	-40	77	-15	-4	10	-7	-1
1964-65	-28	37	-38	-2	0	-32	77	-3	0	0	-10	9	1
1965-66	-20	4	1	-55	26	10	32	2	0	13	-1	3	1
1966-67	-3	-17	-13	0	21	-8	1	16	2	-1	2	0	0
1967-68	-2	-14	0	0	-2	3	9	3	0	-6	6	0	0
1968-69	-3	-13	-13	-15	9	24	-2	0	10	3	0	0	0
1969-70	-5	-7	-36	-8	-2	29	18	3	3	3	0	0	0
1970-71	-3	-13	-13	-29	0	21	27	-2	2	6	-2	2	0
1971-72	-1	-8	-30	-12	-1	15	30	0	0	13	-3	-10	-1
1972-73	0	-2	-24	-9	21	8	7	11	0	0	1	-6	0
1973-74	1	-45	2	-1	2	-3	25	-2	0	-21	-1	0	-4
1974-75	8	4	0	-3	2	-2	-4	35	-1	0	-2	4	3
1975-76	-1	3	-33	-3	3	1	28	1	-3	1	10	0	1
1976-77	-2	0	0	0	0	-16	11	-1	9	1	-1	-1	0
1977-78	-3	-13	-18	-4	-5	8	31	0	0	1	0	0	0
1978-79	0	-17	0	0	-6	1	23	-2	3	-1	2	1	0
1979-80	-5	-14	-7	-1	2	-1	17	7	0	2	1	-1	0
1980-81	-9	-10	0	-3	4	6	9	-1	2	0	-2	1	0
1981-82	-9	-7	-5	-30	-3	2	43	-69	-58	88	28	19	0
1982-83	28	-9	-5	-1	0	9	18	-3	1	0	1	-1	3
1983-84	-9	-6	-11	0	2	1	15	8	0	1	0	0	0
1984-85	-4	-20	-8	5	-17	28	4	10	1	0	0	1	0
1985-86	-8	-18	0	0	-1	9	7	3	5	-1	0	-5	-1
1986-87	-8	-8	0	1	0	10	4	4	2	0	0	0	0
1987-88	0	-13	-1	1	0	4	3	5	0	0	0	0	0
1988-89	-7	-14	-6	-7	0	19	9	0	2	0	0	1	0
MEAN	-4	-9	-10	-7	2	8	21	5	-2	3	2	1	1

SMH3S

USGS # 14158795

SMITH R. RES. INFLOW

River: SMITH

Drainage Area:

18 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

2.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										9	6	6	
1928-29	8	18	60	68	44	101	159	216	123	10	6	5	68
1929-30	5	<u>5</u>	113	52	183	53	62	103	46	6	5	5	52
1930-31	6	29	55	60	32	105	180	53	26	7	5	5	47
1931-32	14	55	90	97	61	211	195	243	123	15	7	6	93
1932-33	7	120	113	132	81	108	191	277	<u>359</u>	32	8	8	119
1933-34	14	25	177	183	53	73	95	<u>46</u>	28	7	6	5	59
1934-35	31	173	170	111	127	68	183	173	80	12	7	6	95
1935-36	9	27	61	253	106	95	166	183	86	12	7	7	84
1936-37	6	6	55	33	69	134	<u>323</u>	386	250	24	8	7	108
1937-38	17	206	166	164	108	127	278	225	54	9	6	6	114
1938-39	7	71	121	92	110	145	167	96	64	10	6	6	74
1939-40	9	7	97	84	241	123	93	76	<u>15</u>	<u>6</u>	6	6	63
1940-41	11	96	93	137	54	<u>38</u>	<u>52</u>	124	<u>57</u>	10	7	17	58
1941-42	23	123	193	112	137	60	73	168	84	14	7	6	83
1942-43	7	<u>334</u>	313	156	202	97	233	131	150	19	9	7	137
1943-44	47	70	69	70	86	67	132	93	40	8	7	7	58
1944-45	7	35	45	131	255	94	220	308	64	9	6	6	97
1945-46	6	154	232	195	120	123	162	198	85	14	7	7	109
1946-47	44	231	226	115	127	98	162	50	103	15	8	8	98
1947-48	<u>150</u>	177	95	210	184	84	193	310	121	14	7	9	129
1948-49	23	118	172	47	202	130	227	<u>389</u>	71	10	7	6	116
1949-50	16	73	81	113	244	179	241	370	259	24	9	7	134
1950-51	144	210	185	194	241	76	183	193	38	8	7	7	123
1951-52	130	131	145	78	198	93	229	217	84	16	7	6	111
1952-53	6	7	52	<u>344</u>	262	90	155	271	150	18	10	7	113
1953-54	11	188	244	160	234	85	177	92	112	14	10	15	111
1954-55	26	49	90	92	111	81	188	362	247	28	9	8	107
1955-56	70	257	316	216	62	110	269	346	125	14	8	7	150
1956-57	38	76	167	51	216	182	153	123	46	9	7	6	89
1957-58	17	48	231	202	285	72	193	126	51	23	14	13	105
1958-59	15	187	156	209	70	102	159	127	56	20	14	<u>30</u>	95
1959-60	79	77	49	35	149	193	194	220	91	20	<u>14</u>	12	94
1960-61	15	233	126	139	<u>349</u>	154	180	211	66	14	8	9	123
1961-62	38	128	192	132	128	87	294	160	65	11	8	7	104
1962-63	75	164	159	31	240	70	149	187	35	21	8	8	94
1963-64	14	197	103	97	87	60	137	246	225	32	10	7	101
1964-65	6	82	<u>456</u>	242	130	82	192	119	39	9	6	5	114
1965-66	7	54	55	132	32	153	265	240	74	18	6	5	87
1966-67	21	164	175	179	98	82	57	237	96	11	5	5	94
1967-68	61	80	90	126	307	123	80	93	36	10	13	17	85
1968-69	86	222	172	147	39	79	216	337	131	34	8	6	124
1969-70	30	42	159	331	145	109	81	138	37	9	5	7	91
1970-71	22	208	100	238	153	100	147	360	211	<u>58</u>	11	20	135
1971-72	30	172	143	175	252	<u>362</u>	169	334	132	18	7	8	150
1972-73	6	45	190	136	54	83	106	76	26	11	5	16	63
1973-74	33	240	298	239	88	149	170	265	294	49	13	6	<u>154</u>
1974-75	5	27	204	233	150	131	70	268	159	33	10	6	108
1975-76	56	154	253	197	96	65	150	274	108	29	13	6	117
1976-77	6	15	<u>11</u>	<u>15</u>	<u>14</u>	61	170	144	56	8	7	12	<u>43</u>
1977-78	26	240	296	145	124	92	99	106	39	14	9	27	101
1978-79	8	27	139	71	174	188	160	157	25	9	5	5	80
1979-80	23	64	140	246	133	82	175	65	39	12	5	5	82
1980-81	5	88	325	44	185	54	112	60	110	16	6	8	84
1981-82	38	149	362	83	342	107	131	206	108	26	8	10	129
1982-83	78	112	241	201	231	211	131	156	66	51	13	7	124
1983-84	6	157	199	213	171	223	146	206	152	24	9	7	126
1984-85	30	246	65	43	57	80	245	185	100	11	5	9	89
1985-86	47	96	97	204	323	182	80	89	17	8	<u>4</u>	18	96
1986-87	20	212	76	87	161	133	122	56	22	11	5	<u>4</u>	75
1987-88	4	9	170	127	114	143	180	126	69	10	5	5	80
1988-89	<u>4</u>	202	102	106	66	224	294	145	51	12	8	5	102
MEAN	30	118	156	140	149	116	167	189	96	17	8	9	99
MEDIAN	17	112	145	132	130	100	167	183	74	14	7	7	98

SMH3A

USGS # 14158840

TRAIL BRIDGE

River: MC KENZIE

Drainage Area:

184 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

81.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										835	745	694	
1928-29	681	705	715	765	655	863	1074	1335	1253	878	712	650	858
1929-30	632	615	908	744	1404	847	806	831	732	613	547	512	762
1930-31	561	579	643	691	667	1091	1583	902	711	599	533	<u>505</u>	755
1931-32	616	694	660	1020	773	1725	1637	1686	1477	928	752	680	1055
1932-33	670	1002	914	877	690	869	1175	1520	<u>2642</u>	1357	871	798	1116
1933-34	741	757	1565	1674	995	1028	1041	866	742	656	617	586	940
1934-35	685	1171	1328	894	949	827	1108	1407	1168	841	709	639	977
1935-36	640	648	666	1513	829	955	1234	1387	1043	832	698	639	925
1936-37	623	599	614	<u>577</u>	596	852	1410	1638	1636	974	729	643	908
1937-38	628	641	858	1293	970	1084	1421	1567	1181	832	714	664	988
1938-39	635	736	953	804	803	990	1258	1160	889	718	625	574	846
1939-40	598	<u>573</u>	726	767	1134	1199	993	831	<u>638</u>	<u>558</u>	539	508	754
1940-41	559	702	783	852	737	<u>665</u>	<u>634</u>	<u>789</u>	671	561	<u>521</u>	513	<u>665</u>
1941-42	576	798	1287	863	930	755	808	911	853	700	589	512	798
1942-43	544	1264	1785	1440	1201	1001	1635	1331	1345	979	811	717	1170
1943-44	755	911	809	751	802	761	908	930	750	629	571	525	758
1944-45	558	603	<u>584</u>	859	1368	897	1129	1525	980	742	607	549	863
1945-46	564	799	1238	1416	951	1015	982	1500	1349	968	770	700	1022
1946-47	726	1140	1802	1028	1193	1114	1288	960	929	775	666	594	1017
1947-48	984	1247	980	1534	1171	1034	1194	1551	1466	1042	844	756	1150
1948-49	763	940	1306	765	1006	1111	1389	<u>2203</u>	1452	995	813	730	1124
1949-50	733	857	937	961	1278	1524	1457	1632	2099	<u>1358</u>	966	871	1221
1950-51	<u>1136</u>	<u>1670</u>	1740	1538	1832	1145	1562	1637	1175	963	832	787	1331
1951-52	1017	1007	1206	826	1160	852	1403	1597	1407	1073	879	800	1101
1952-53	733	700	736	<u>1967</u>	1841	1068	1159	1519	1475	1104	909	828	1166
1953-54	762	1119	1776	1260	1540	1185	1511	1363	1369	1089	920	870	1228
1954-55	813	840	854	888	904	851	1139	1470	1885	1210	893	790	1045
1955-56	886	1378	2248	1796	1175	1173	1641	2110	1903	1277	1018	<u>920</u>	<u>1462</u>
1956-57	877	979	1462	842	1101	1680	1485	1299	1021	854	768	732	1092
1957-58	724	766	1440	1366	1799	1074	1380	1252	1061	891	759	704	1097
1958-59	677	1114	1179	1329	1100	1006	1281	1213	979	804	704	729	1009
1959-60	845	829	778	664	1027	1132	1557	1575	1243	837	730	655	988
1960-61	638	1211	1123	1072	<u>2016</u>	1358	1315	1363	1065	892	766	736	1123
1961-62	770	983	1313	1220	1069	967	<u>1695</u>	1437	1064	829	742	693	1065
1962-63	858	1000	1317	854	1456	967	1076	1273	895	781	651	579	973
1963-64	620	1113	974	964	950	804	1027	1294	1625	1041	824	760	998
1964-65	726	735	<u>2500</u>	1778	1550	1198	1264	1279	1013	873	786	696	1200
1965-66	666	740	709	1032	719	978	1431	1441	1038	812	690	640	909
1966-67	630	970	1167	1148	1083	937	885	1217	1037	828	685	644	935
1967-68	734	924	843	1024	1560	1353	1044	970	874	718	613	563	932
1968-69	700	1196	1245	1135	764	746	1167	1625	1234	1003	823	695	1029
1969-70	698	715	1066	1849	1542	1192	1015	1103	827	726	711	684	1009
1970-71	676	1102	1090	1591	1353	1136	1261	1840	1594	1200	997	913	1229
1971-72	858	1153	1369	1369	1604	<u>2332</u>	1568	1903	1574	1166	<u>1034</u>	913	1404
1972-73	800	839	1222	1298	939	990	991	952	783	687	607	608	893
1973-74	605	1361	1583	1932	1295	1242	1436	1678	1888	1267	1024	894	1350
1974-75	744	740	1328	1551	1369	1302	948	1530	1351	962	834	747	1117
1975-76	774	1105	1628	1514	1116	961	1122	1702	1232	932	822	740	1138
1976-77	724	703	634	601	<u>580</u>	731	968	996	774	585	552	547	700
1977-78	569	1217	2131	1290	1173	986	910	981	787	667	607	620	995
1978-79	570	614	987	765	1098	1200	1109	1190	808	701	637	605	856
1979-80	626	717	974	1390	983	926	994	850	728	619	559	535	825
1980-81	<u>520</u>	688	1446	975	1072	892	923	834	930	686	586	559	841
1981-82	619	796	1792	1113	1813	1297	1128	1472	1159	843	801	767	1130
1982-83	817	991	1523	1430	1440	1542	1339	1243	1025	933	783	715	1147
1983-84	694	995	1296	1312	1295	1355	1236	1330	1276	963	842	767	1113
1984-85	775	1448	991	803	808	826	1351	1295	1105	818	706	648	964
1985-86	665	860	808	1087	1618	1557	1076	1023	798	707	668	711	961
1986-87	751	1117	1090	941	1212	1143	1093	934	784	721	680	640	923
1987-88	608	616	1051	955	964	1072	1254	1127	965	727	650	610	883
1988-89	583	1013	1019	951	819	1208	1524	1286	948	768	687	638	954
MEAN	704	919	1175	1140	1145	1091	1220	1322	1159	870	738	681	1013
MEDIAN	685	860	1090	1032	1100	1034	1194	1330	1061	836	722	682	998

TRB3H

USGS # 14158840

TRAIL BRIDGE

River: MC KENZIE

Drainage Area:

184 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

81.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										835	745	694	
1928-29	681	705	715	765	655	863	1074	1335	1253	878	712	650	858
1929-30	632	615	908	744	1404	847	806	831	732	613	547	512	762
1930-31	561	579	643	691	667	1091	1583	902	711	599	533	<u>505</u>	755
1931-32	616	694	660	1020	773	1725	1637	1686	1477	928	752	680	1055
1932-33	670	1002	914	877	690	869	1175	1520	<u>2642</u>	1357	871	798	1116
1933-34	741	757	1565	1674	995	1028	1041	866	742	656	617	586	940
1934-35	685	1171	1328	894	949	827	1108	1407	1168	841	709	639	977
1935-36	640	648	666	1513	829	955	1234	1387	1043	832	698	639	925
1936-37	623	599	614	<u>577</u>	596	852	1410	1638	1636	974	729	643	908
1937-38	628	641	858	1293	970	1084	1421	1567	1181	832	714	664	988
1938-39	635	736	953	804	803	990	1258	1160	889	718	625	574	846
1939-40	598	<u>573</u>	726	767	1134	1199	993	831	<u>638</u>	<u>558</u>	539	508	754
1940-41	559	702	783	852	737	<u>665</u>	<u>634</u>	<u>789</u>	671	561	<u>521</u>	513	<u>665</u>
1941-42	576	798	1287	863	930	755	808	911	853	700	589	512	798
1942-43	544	1264	1785	1440	1201	1001	1635	1331	1345	979	811	717	1170
1943-44	755	911	809	751	802	761	908	930	750	629	571	525	758
1944-45	558	603	<u>584</u>	859	1368	897	1129	1525	980	742	607	549	863
1945-46	564	799	1238	1416	951	1015	982	1500	1349	968	770	700	1022
1946-47	726	1140	1802	1028	1193	1114	1288	960	929	775	666	594	1017
1947-48	984	1247	980	1534	1171	1034	1194	1551	1466	1042	844	756	1150
1948-49	763	940	1308	765	1006	1111	1389	<u>2203</u>	1452	995	813	730	1124
1949-50	733	857	937	961	1278	1524	1457	1632	2099	<u>1358</u>	966	871	1221
1950-51	<u>1136</u>	<u>1670</u>	1740	1538	1832	1145	1562	1637	1175	963	832	787	1331
1951-52	1017	1007	1206	826	1160	852	1403	1597	1407	1073	879	800	1101
1952-53	733	700	736	<u>1967</u>	1841	1088	1159	1519	1475	1104	909	828	1166
1953-54	762	1119	1776	1260	1540	1185	1511	1363	1369	1089	920	870	1228
1954-55	813	840	854	888	904	851	1139	1470	1885	1210	893	790	1045
1955-56	886	1378	2248	1796	1175	1173	1641	2110	1903	1277	1018	<u>920</u>	<u>1462</u>
1956-57	877	979	1462	842	1101	1680	1485	1299	1021	854	768	732	1092
1957-58	724	766	1440	1366	1799	1074	1380	1252	1061	891	759	704	1097
1958-59	677	1114	1179	1329	1100	1006	1281	1213	979	804	704	729	1009
1959-60	845	829	778	664	1027	1132	1557	1575	1243	837	730	655	988
1960-61	638	1211	1123	1072	<u>2016</u>	1358	1315	1363	1065	892	766	736	1123
1961-62	770	983	1313	1220	1069	967	<u>1695</u>	1437	1064	829	742	693	1065
1962-63	858	1000	1317	854	1456	1017	1236	1299	869	763	678	602	993
1963-64	609	1105	961	952	946	813	987	1371	1610	1037	834	753	997
1964-65	698	772	<u>2462</u>	1776	1550	1166	1341	1276	1013	873	776	705	1201
1965-66	646	744	710	977	745	988	1463	1443	1038	825	689	643	910
1966-67	627	953	1154	1148	1104	929	886	1233	1039	827	687	644	935
1967-68	732	910	843	1024	1558	1356	1053	973	874	712	619	563	932
1968-69	697	1183	1232	1120	773	770	1165	1625	1244	1006	823	695	1029
1969-70	693	708	1030	1841	1540	1221	1033	1106	830	729	711	684	1008
1970-71	673	1089	1077	1562	1353	1157	1288	1838	1596	1206	995	915	1228
1971-72	857	1145	1339	1357	1603	<u>2347</u>	1598	1903	1574	1179	<u>1031</u>	903	1403
1972-73	800	837	1198	1289	960	998	998	963	783	687	608	602	894
1973-74	606	1316	1585	1931	1297	1239	1461	1676	1888	1246	1023	894	1347
1974-75	752	744	1328	1548	1371	1300	944	1565	1350	962	832	751	1120
1975-76	773	1108	1595	1511	1119	962	1150	1703	1229	933	832	740	1139
1976-77	722	703	634	601	<u>580</u>	715	979	995	783	586	551	546	700
1977-78	566	1204	2113	1286	1168	994	941	981	787	668	607	620	994
1978-79	569	597	987	765	1093	1201	1131	1188	811	700	639	607	856
1979-80	621	703	967	1390	985	925	1012	857	728	621	560	534	825
1980-81	<u>510</u>	678	1446	972	1075	898	932	832	932	686	584	559	841
1981-82	610	789	1787	1084	1810	1299	1171	1403	1100	931	828	786	1129
1982-83	845	982	1519	1428	1439	1550	1357	1240	1026	933	784	714	1150
1983-84	685	989	1285	1312	1297	1356	1251	1339	1276	965	842	767	1113
1984-85	772	1428	984	808	790	854	1354	1305	1105	817	705	649	964
1985-86	658	843	808	1087	1617	1567	1083	1026	803	707	667	706	960
1986-87	742	1108	1090	942	1212	1153	1097	938	786	720	680	639	924
1987-88	608	603	1051	957	964	1076	1257	1133	965	726	649	610	883
1988-89	576	999	1013	945	819	1228	1532	1286	950	768	686	638	954
MEAN	703	915	1171	1136	1146	1095	1229	1325	1158	871	739	682	1013
MEDIAN	685	857	1090	1028	1101	1034	1234	1335	1061	836	722	682	997

TRB3A

USGS # 14159450

COUGAR

River: SF MC KENZIE

Drainage Area:

208 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

4.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										261	212	212	
1928-29	225	285	388	510	411	920	1040	1180	825	288	198	182	538
1929-30	187	<u>173</u>	800	413	1600	541	423	450	320	182	152	155	442
1930-31	175	280	319	440	360	1060	1430	387	255	185	149	<u>148</u>	432
1931-32	237	425	538	861	570	2270	1560	1490	925	333	225	210	805
1932-33	224	825	784	880	603	982	1275	1545	<u>2540</u>	535	285	280	895
1933-34	282	314	1510	1680	579	789	675	355	264	199	175	174	586
1934-35	313	1120	1340	830	932	646	1160	1080	605	299	215	200	724
1935-36	226	285	369	1940	752	855	1200	1100	1180	290	217	210	718
1936-37	198	178	304	<u>226</u>	453	1080	<u>1950</u>	1740	1350	384	240	215	693
1937-38	281	1140	1220	1370	907	1330	1680	1315	556	285	227	217	877
1938-39	217	493	817	629	810	1220	1070	670	423	245	182	180	578
1939-40	214	183	511	520	1290	1150	682	385	<u>220</u>	<u>167</u>	<u>146</u>	158	466
1940-41	188	554	592	811	461	341	332	483	340	189	151	200	<u>387</u>
1941-42	242	800	1430	766	883	520	480	688	505	262	178	164	575
1942-43	179	1880	2620	1750	1390	885	1760	930	1060	403	280	241	1111
1943-44	380	646	470	453	587	556	785	536	334	197	158	160	437
1944-45	<u>167</u>	252	260	819	1650	794	1290	1580	480	235	183	180	651
1945-46	181	896	1670	1710	867	1130	895	1175	770	347	236	239	844
1946-47	360	1280	1830	893	1100	963	1250	520	540	301	227	215	787
1947-48	864	1289	795	1731	1311	850	1173	1571	1087	395	292	291	969
1948-49	361	870	1501	465	1274	1252	1747	<u>2175</u>	777	323	263	237	935
1949-50	305	481	619	926	1563	1777	1602	1685	1796	<u>543</u>	314	262	984
1950-51	1081	1804	1697	1901	1935	915	1336	1196	457	291	267	239	1088
1951-52	833	962	1279	638	1439	1023	1686	1501	840	417	294	269	929
1952-53	242	265	520	2809	2190	881	979	1406	1195	449	308	277	953
1953-54	311	1351	2134	1314	1598	815	1190	861	934	402	302	314	956
1954-55	365	418	587	683	768	793	1172	1547	1593	506	292	280	749
1955-56	503	1718	<u>3484</u>	2173	759	1149	1705	1860	1154	440	323	284	<u>1300</u>
1956-57	471	692	1782	489	1359	1921	1216	1002	486	303	257	220	848
1957-58	292	406	1608	1525	2095	756	1307	1065	677	343	261	248	874
1958-59	266	1269	1056	1275	895	956	1057	924	512	278	228	307	750
1959-60	551	549	444	494	1149	1607	1644	1704	844	301	262	234	813
1960-61	285	1439	919	724	<u>2279</u>	1410	1074	1186	573	272	248	247	877
1961-62	350	985	1589	1017	779	1005	1827	1323	782	332	285	261	878
1962-63	539	918	1162	439	1696	722	1080	1324	503	397	268	252	768
1963-64	185	513	855	959	581	366	885	852	994	439	498	621	645
1964-65	1057	1316	2891	<u>3246</u>	2030	263	239	263	457	384	397	<u>1084</u>	1132
1965-66	<u>1947</u>	276	<u>210</u>	1124	231	405	547	589	339	368	464	560	593
1966-67	960	1730	1288	906	710	296	538	387	376	406	420	807	734
1967-68	887	1348	817	869	491	440	229	228	250	315	416	760	587
1968-69	1026	<u>2403</u>	1237	1335	287	271	321	1494	841	424	650	896	935
1969-70	850	957	901	1255	1822	287	331	642	477	413	613	660	760
1970-71	952	1605	1280	1817	1198	714	711	1239	1152	513	653	875	1056
1971-72	943	1397	2049	1203	1599	<u>2571</u>	724	1455	995	457	684	825	1243
1972-73	943	843	1151	1007	185	181	138	<u>158</u>	292	351	581	845	559
1973-74	983	1440	2309	1809	737	837	878	1153	1584	489	541	818	1134
1974-75	986	940	1318	1682	456	743	582	847	1106	460	635	780	882
1975-76	1095	1640	1919	1824	338	318	490	1297	773	434	544	817	961
1976-77	878	1025	351	267	<u>157</u>	<u>101</u>	<u>90</u>	178	437	432	649	859	453
1977-78	701	1526	3221	944	457	246	274	305	308	251	412	797	790
1978-79	942	1004	1248	723	309	814	591	1025	420	467	756	803	763
1979-80	717	873	919	1498	403	297	428	406	586	357	737	752	666
1980-81	784	831	1399	769	291	285	284	414	786	369	677	851	647
1981-82	899	964	2542	1205	1455	674	473	903	808	455	823	911	1008
1982-83	973	1062	1988	1266	635	589	620	951	578	501	794	797	900
1983-84	791	1269	1863	1318	741	763	660	1278	1293	508	759	892	1012
1984-85	992	2167	910	592	411	329	321	796	777	493	<u>846</u>	841	790
1985-86	794	1081	849	1108	1116	951	283	620	363	348	742	911	762
1986-87	1011	1254	1158	761	539	317	314	317	382	415	411	612	625
1987-88	936	545	1269	935	449	277	737	1020	776	473	750	857	754
1988-89	784	948	1080	998	749	585	967	783	582	481	739	874	797
MEAN	592	957	1245	1107	945	816	908	976	745	364	398	472	794
MEDIAN	503	948	1162	944	768	793	885	1002	605	369	293	280	790

CGR3H

USGS # 14159450

COUGAR

River: SF MC KENZIE

Drainage Area:

208 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

4.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	136	754	17	298	345	555	198	537	592	-30	-238	-386	230
1964-65	-834	-551	1572	-663	-886	426	874	657	57	-107	-139	-886	-32
1965-66	-1809	171	229	119	298	811	909	384	62	-130	-296	-388	26
1966-67	-783	-792	-154	531	239	477	64	862	321	-159	-210	-682	-22
1967-68	-494	-888	-28	42	1261	296	351	327	97	-88	-148	-536	12
1968-69	-595	-909	-14	-144	304	719	1247	281	0	-24	-421	-679	-22
1969-70	-540	-650	73	1404	-792	644	452	431	-17	-158	-429	-454	5
1970-71	-673	-312	-329	839	117	545	440	454	2	-36	-377	-578	8
1971-72	-633	-234	-617	864	438	372	558	276	2	-57	-465	-635	-13
1972-73	-738	-462	6	-2	390	507	742	534	74	-115	-419	-666	-15
1973-74	-757	135	-143	91	459	725	504	283	61	-38	-280	-630	31
1974-75	-854	-591	142	191	883	445	187	601	-22	-8	-380	-590	-4
1975-76	-616	-704	7	55	728	598	741	193	2	-33	-199	-608	11
1976-77	-686	-816	-101	19	140	513	831	969	70	-198	-474	-657	-33
1977-78	-412	150	-721	4	570	387	492	493	139	65	-156	-487	39
1978-79	-789	-717	-115	13	1062	513	745	179	-43	-231	-580	-673	-61
1979-80	-432	-344	59	183	447	577	785	275	0	-45	-638	-643	17
1980-81	-681	-371	345	-296	987	369	726	300	12	-54	-537	-700	1
1981-82	-627	-298	205	-197	1091	319	668	232	-32	-44	-603	-661	-4
1982-83	-407	-374	-270	119	927	787	427	150	18	-40	-536	-586	12
1983-84	-595	-431	-60	125	831	565	528	236	4	-114	-529	-676	-13
1984-85	-529	-360	-116	46	345	400	1253	303	19	-208	-623	-594	-9
1985-86	-315	-546	-88	107	1493	124	532	240	-2	-121	-662	-623	1
1986-87	-694	240	-487	216	693	535	491	237	-68	-84	-170	-418	35
1987-88	-752	-271	-299	289	544	773	618	124	-1	-175	-565	-707	-38
1988-89	-647	150	-410	171	49	1193	696	255	-2	-212	-513	-711	1
MEAN	-644	-347	-50	170	499	545	618	377	52	-94	-407	-610	6

CGR3S

USGS # 14159450

COUGAR

River: SF MC KENZIE

Drainage Area:

208 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

4.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										261	212	212	
1928-29	225	285	388	510	411	920	1040	1180	825	288	198	182	538
1929-30	187	<u>173</u>	800	413	1600	541	423	450	320	182	152	155	442
1930-31	175	280	319	440	360	1060	1430	387	255	185	149	148	432
1931-32	237	425	538	861	570	2270	1560	1490	925	333	225	210	805
1932-33	224	825	784	880	603	982	1275	1545	<u>2540</u>	535	285	280	895
1933-34	282	314	1510	1680	579	789	675	<u>355</u>	264	199	175	174	586
1934-35	313	1120	1340	830	932	646	1160	1060	605	299	215	200	724
1935-36	226	285	369	1940	752	855	1200	1100	1180	290	217	210	718
1936-37	198	178	304	<u>226</u>	453	1080	<u>1950</u>	1740	1350	384	240	215	693
1937-38	281	1140	1220	1370	907	1330	1680	1315	556	285	227	217	877
1938-39	217	493	817	629	810	1220	1070	670	423	245	182	180	578
1939-40	214	183	511	520	1290	1150	682	385	<u>220</u>	<u>167</u>	146	158	466
1940-41	188	554	592	811	461	<u>341</u>	<u>332</u>	483	<u>340</u>	189	151	200	<u>387</u>
1941-42	242	800	1430	766	883	520	480	688	505	262	178	164	575
1942-43	179	<u>1880</u>	2620	1750	1390	885	1760	930	1060	403	280	241	1111
1943-44	380	646	470	453	587	556	785	536	334	197	158	160	437
1944-45	167	252	260	819	1650	794	1290	1580	480	235	183	180	651
1945-46	181	896	1670	1710	867	1130	895	1175	770	347	236	239	844
1946-47	360	1280	1830	893	1100	963	1250	520	540	301	227	215	787
1947-48	864	1289	795	1731	1311	850	1173	1571	1087	395	292	291	969
1948-49	361	870	1501	465	1274	1252	1747	<u>2175</u>	777	323	263	237	935
1949-50	305	481	619	926	1563	1777	1602	1685	1796	<u>543</u>	314	262	984
1950-51	<u>1081</u>	1804	1697	1901	1935	915	1336	1196	457	291	267	239	1088
1951-52	833	962	1279	638	1439	1023	1686	1501	840	417	294	269	929
1952-53	242	265	520	<u>2809</u>	2190	881	979	1406	1195	449	308	277	953
1953-54	311	1351	2134	1314	1598	815	1190	861	934	402	302	<u>314</u>	956
1954-55	365	418	587	683	768	793	1172	1547	1593	506	292	280	749
1955-56	503	1718	3484	2173	759	1149	1705	1860	1154	440	323	284	<u>1300</u>
1956-57	471	692	1782	489	1359	1921	1216	1002	486	303	257	220	848
1957-58	292	406	1608	1525	2095	756	1307	1065	677	343	261	248	874
1958-59	266	1269	1056	1275	895	956	1057	924	512	278	228	307	750
1959-60	551	549	444	494	1149	1607	1644	1704	844	301	262	234	813
1960-61	285	1439	919	724	2279	1410	1074	1186	573	272	248	247	877
1961-62	350	985	1589	1017	779	1005	1827	1323	782	332	285	261	878
1962-63	539	918	1162	439	1696	722	1080	1324	503	397	268	252	768
1963-64	320	1267	873	1256	925	921	1083	1390	1585	409	260	235	875
1964-65	224	764	<u>4463</u>	2583	1144	689	1113	920	514	277	258	198	1100
1965-66	138	448	439	1242	529	1216	1456	973	401	238	168	172	619
1966-67	197	938	1134	1438	949	772	602	1249	697	247	210	124	712
1967-68	392	461	789	912	1751	736	581	555	347	227	269	224	600
1968-69	431	1494	1223	1191	590	990	1568	1775	841	400	229	217	914
1969-70	310	307	975	2659	1030	931	783	1073	460	256	184	206	766
1970-71	278	1293	931	2656	1315	1259	1151	1692	1153	478	276	297	1064
1971-72	310	1163	1432	2066	2037	<u>2944</u>	1282	1732	996	400	219	190	1230
1972-73	206	381	1157	1005	575	687	880	691	366	236	162	179	544
1973-74	226	1574	2167	1900	1195	1562	1382	1436	1645	451	262	187	1165
1974-75	132	349	1460	1872	1339	1188	769	1447	1084	452	255	190	877
1975-76	479	936	1926	1879	1065	915	1231	1490	774	401	<u>345</u>	209	972
1976-77	192	209	<u>251</u>	286	<u>297</u>	614	921	1147	508	233	175	202	420
1977-78	289	1676	2500	948	1027	633	766	798	447	316	256	311	829
1978-79	153	287	1134	735	1371	1327	1335	1205	377	237	176	130	702
1979-80	285	530	978	1681	850	874	1214	681	587	313	99	<u>109</u>	683
1980-81	<u>103</u>	460	1743	472	1278	654	1010	715	798	315	140	150	649
1981-82	273	666	2747	1008	2546	994	1140	1135	776	411	219	251	1005
1982-83	566	688	1717	1385	1562	1376	1047	1102	595	461	258	211	912
1983-84	196	838	1803	1443	1572	1328	1188	1514	1297	394	230	216	1000
1984-85	463	1807	793	638	756	729	1574	1099	797	285	223	247	781
1985-86	479	536	762	1215	<u>2609</u>	1075	815	860	361	227	<u>80</u>	288	764
1986-87	317	1494	671	978	1232	852	805	554	313	331	240	194	660
1987-88	184	274	970	1224	993	1049	1354	1144	775	298	185	150	716
1988-89	137	1099	670	1169	798	1779	1663	1038	579	270	226	163	798
MEAN	318	809	1224	1179	1158	1049	1171	1137	767	325	227	216	796
MEDIAN	281	692	1056	1008	1065	956	1173	1144	677	302	229	214	798

CGR3A

USGS # 14162150

BLUE RIVER

River: BLUE

Drainage Area:

88 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

1.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										56	28	26	
1928-29	53	109	261	311	231	645	621	545	322	68	22	14	267
1929-30	<u>17</u>	<u>12</u>	616	209	880	293	235	273	135	33	15	16	224
1930-31	20	164	229	264	176	675	705	152	87	39	<u>14</u>	<u>13</u>	211
1931-32	88	287	464	511	312	1455	768	610	322	89	35	19	415
1932-33	43	586	610	740	408	699	751	692	<u>897</u>	176	52	49	474
1933-34	89	141	1040	1080	274	446	364	137	88	40	21	14	313
1934-35	173	833	985	599	621	405	716	440	218	82	35	24	426
1935-36	57	151	269	1542	526	602	647	465	232	81	36	37	388
1936-37	23	21	231	80	348	895	<u>1277</u>	956	626	130	50	37	389
1937-38	104	989	961	947	534	834	1097	565	156	56	29	26	524
1938-39	34	358	663	469	537	963	653	256	178	69	30	23	352
1939-40	59	34	507	419	1154	813	354	206	<u>58</u>	<u>30</u>	21	32	305
1940-41	72	474	479	766	279	194	192	325	162	68	36	104	263
1941-42	127	604	1143	609	664	344	279	429	225	85	37	28	380
1942-43	43	<u>1591</u>	1938	897	974	621	916	341	387	112	53	35	656
1943-44	244	354	318	331	426	398	516	249	121	52	35	37	256
1944-45	44	192	163	735	1219	595	866	767	179	58	30	30	401
1945-46	28	744	1396	1157	585	812	632	502	228	84	39	36	521
1946-47	228	1103	1360	628	616	628	630	144	272	94	46	44	481
1947-48	<u>730</u>	857	490	1253	890	521	760	771	314	89	43	58	564
1948-49	126	574	998	183	974	861	893	<u>961</u>	197	68	37	32	489
1949-50	95	372	401	612	1166	1215	945	914	649	136	53	40	545
1950-51	698	1011	1091	1148	1150	463	718	489	117	53	33	33	580
1951-52	631	642	825	379	951	590	901	547	226	99	37	30	486
1952-53	21	41	211	<u>2136</u>	1254	571	604	677	386	109	63	41	506
1953-54	76	906	1481	927	1120	529	696	245	294	88	62	89	539
1954-55	148	255	463	469	544	502	733	896	621	161	55	53	407
1955-56	350	1226	1957	1294	316	708	1060	856	326	87	46	33	691
1956-57	204	380	971	201	1037	1246	596	320	135	57	40	29	431
1957-58	82	265	1476	1211	1364	381	734	243	189	66	35	35	502
1958-59	49	923	656	1060	574	651	554	411	162	56	32	142	438
1959-60	359	331	202	292	957	1097	1010	805	233	59	43	33	450
1960-61	75	1049	568	537	<u>1708</u>	1008	567	551	155	44	22	38	518
1961-62	155	563	1105	564	482	712	970	468	163	52	40	38	441
1962-63	259	660	667	196	1084	389	720	685	150	110	58	68	415
1963-64	98	899	477	767	563	581	685	653	501	103	58	34	450
1964-65	30	496	<u>2816</u>	1837	633	300	582	280	116	55	38	27	604
1965-66	34	233	236	946	343	1210	1071	408	105	61	30	26	393
1966-67	111	615	851	1111	547	460	304	472	154	47	27	27	394
1967-68	288	299	583	683	1351	380	271	280	138	55	94	116	375
1968-69	71	310	1941	965	289	81	433	573	323	123	384	467	500
1969-70	420	287	719	1049	1095	81	78	385	108	585	352	114	437
1970-71	185	876	634	1349	802	615	515	676	366	220	<u>765</u>	380	614
1971-72	287	714	1285	1371	898	<u>1766</u>	439	598	228	98	485	<u>536</u>	<u>727</u>
1972-73	153	369	912	604	51	54	32	<u>35</u>	64	498	367	272	287
1973-74	133	1459	1781	1240	478	799	577	540	516	250	510	105	701
1974-75	369	372	1055	1292	364	556	203	580	239	344	524	232	515
1975-76	429	775	1315	1244	169	220	399	397	208	378	547	209	528
1976-77	179	130	<u>63</u>	<u>68</u>	<u>33</u>	<u>12</u>	<u>12</u>	396	164	558	502	163	<u>192</u>
1977-78	187	910	2189	686	253	48	34	59	136	500	446	256	479
1978-79	235	183	855	347	572	525	425	393	196	<u>626</u>	326	83	398
1979-80	258	484	641	1184	71	146	352	87	177	366	567	226	382
1980-81	129	556	1337	389	286	74	329	194	459	434	551	171	411
1981-82	215	698	1826	708	1167	334	424	273	191	267	470	229	564
1982-83	421	711	1343	979	674	473	295	274	149	225	479	216	521
1983-84	308	961	1101	811	490	712	330	572	549	89	458	286	556
1984-85	611	1354	571	315	52	65	620	239	253	439	468	223	435
1985-86	306	547	503	790	950	520	53	261	86	405	540	266	433
1986-87	143	1020	482	587	331	199	60	52	320	516	302	125	344
1987-88	48	39	702	724	246	174	399	391	336	260	633	171	345
1988-89	190	1208	430	829	98	796	573	226	144	377	510	195	467
MEAN	188	579	883	781	641	573	560	446	253	173	190	106	448
MEDIAN	133	556	702	735	563	556	582	411	197	89	48	41	438

BLU3H

USGS # 14162150

BLUE RIVER

River: BLUE

Drainage Area:

88 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

1.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	0	0	0	0
1968-69	326	749	-827	-188	30	668	513	142	11	7	-403	-485	44
1969-70	-285	-169	2	880	-423	380	338	74	-12	-621	-459	-76	-28
1970-71	-68	-50	-28	411	132	330	279	184	-2	-124	-739	-257	5
1971-72	-171	324	-315	222	699	6	299	145	-2	-49	-471	-492	12
1972-73	-113	-211	0	128	250	380	366	155	53	-479	-354	-195	-4
1973-74	-9	-101	-47	36	392	356	301	127	34	-176	-516	-93	22
1974-75	-353	-186	-1	69	615	269	278	137	-1	-297	-518	-212	-22
1975-76	-158	-101	-22	73	511	324	321	127	-34	-358	-544	-170	-5
1976-77	-158	-58	1	45	94	514	565	105	9	-590	-496	-82	-6
1977-78	-70	335	-387	20	383	205	403	343	1	-481	-414	-121	14
1978-79	-189	13	-115	27	584	319	320	122	-128	-620	-308	-47	-7
1979-80	-116	-104	-1	53	484	375	302	140	4	-326	-569	-191	2
1980-81	-92	-140	225	-146	640	272	263	93	-3	-377	-557	-117	0
1981-82	-42	-199	118	-33	546	266	308	162	-20	-222	-471	-195	14
1982-83	-103	-271	-38	30	515	473	216	104	0	-78	-480	-192	11
1983-84	-288	-257	48	23	490	328	312	120	3	2	-477	-272	0
1984-85	-380	-91	-76	29	443	453	284	126	2	-436	-476	-170	-28
1985-86	-96	-114	-1	25	873	36	322	118	-2	-425	-582	-123	-5
1986-87	-45	45	-152	89	429	361	230	91	-261	-463	-261	-116	-8
1987-88	-46	30	-42	178	303	487	266	80	4	-205	-639	-139	21
1988-89	-162	-149	34	26	444	416	306	111	-4	-346	-497	-160	-2
MEAN	-125	-34	-77	95	402	344	323	134	-17	-317	-487	-186	1

BLU3S

USGS # 14162150

BLUE RIVER

River: BLUE

Drainage Area:

88 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

1.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										56	28	26	
1928-29	53	109	261	311	231	645	621	545	322	68	22	14	267
1929-30	17	<u>12</u>	616	209	880	293	235	273	135	33	15	16	224
1930-31	20	164	229	264	176	675	705	152	87	39	14	13	211
1931-32	88	287	464	511	312	1455	768	610	322	89	35	19	415
1932-33	43	586	610	740	408	699	751	<u>692</u>	<u>891</u>	<u>176</u>	52	49	474
1933-34	89	141	1040	1080	274	446	364	<u>137</u>	88	40	21	14	313
1934-35	173	833	985	599	621	405	716	440	218	82	35	24	426
1935-36	57	151	269	1542	526	602	647	465	232	81	36	37	388
1936-37	23	21	231	<u>80</u>	348	895	<u>1277</u>	956	626	130	50	37	389
1937-38	104	989	961	947	534	834	1097	565	156	56	29	26	524
1938-39	34	358	663	469	537	963	653	256	178	69	30	23	352
1939-40	59	34	507	419	1154	813	354	206	58	30	21	32	305
1940-41	72	474	479	766	279	<u>194</u>	<u>192</u>	325	162	68	36	104	263
1941-42	127	604	1143	609	664	344	279	429	225	85	37	28	380
1942-43	43	<u>1591</u>	1938	897	974	621	916	341	387	112	53	35	656
1943-44	244	<u>354</u>	318	331	426	398	516	249	121	52	35	37	256
1944-45	44	192	163	735	1219	595	866	767	179	58	30	30	401
1945-46	28	744	1396	1157	585	812	632	502	228	84	39	36	521
1946-47	228	1103	1360	628	616	628	630	144	272	94	46	44	481
1947-48	<u>730</u>	857	490	1253	890	521	760	771	314	89	43	58	564
1948-49	126	574	998	183	974	861	893	<u>961</u>	197	68	37	32	489
1949-50	95	372	401	612	1166	1215	945	914	649	136	53	40	545
1950-51	698	1011	1091	1148	1150	463	718	489	117	53	33	33	580
1951-52	631	642	825	379	951	590	901	547	226	99	37	30	486
1952-53	21	41	211	<u>2136</u>	1254	571	604	677	386	109	63	41	506
1953-54	76	906	1481	927	1120	529	696	245	294	88	62	89	539
1954-55	148	255	463	469	544	502	733	896	621	161	55	53	407
1955-56	350	1226	1957	1294	316	708	1060	856	326	87	46	33	691
1956-57	204	380	971	201	1037	1246	596	320	135	57	40	29	431
1957-58	82	265	1476	1211	1364	381	734	243	189	66	35	35	502
1958-59	49	923	656	1060	574	651	554	411	162	56	32	142	438
1959-60	359	331	202	292	957	1097	1010	805	233	59	43	33	450
1960-61	75	1049	568	537	1708	1008	567	551	155	44	22	38	518
1961-62	155	563	1105	564	462	712	970	468	163	52	40	38	441
1962-63	259	660	667	196	1084	389	720	685	150	110	58	68	415
1963-64	98	899	477	767	563	581	685	653	501	103	58	34	450
1964-65	30	496	<u>2816</u>	1837	633	300	582	280	116	55	38	27	604
1965-66	34	233	236	946	343	1210	1071	408	105	61	30	26	393
1966-67	111	615	851	1111	547	460	304	472	154	47	27	27	394
1967-68	288	299	583	683	1351	380	271	280	138	55	<u>94</u>	116	375
1968-69	397	1060	1114	777	319	749	946	715	335	129	-20	<u>-18</u>	543
1969-70	135	118	721	1930	672	461	415	459	96	<u>-36</u>	<u>-107</u>	38	409
1970-71	118	826	606	1761	934	944	793	860	364	96	26	122	619
1971-72	116	1038	970	1593	1597	<u>1772</u>	738	743	227	49	14	44	<u>740</u>
1972-73	41	157	912	732	300	435	398	190	117	19	13	76	283
1973-74	124	1358	1734	1276	871	1155	878	666	550	75	-6	12	723
1974-75	16	185	1053	1361	979	825	481	717	238	46	6	21	493
1975-76	271	674	1293	1317	680	544	720	523	174	20	3	39	522
1976-77	21	72	<u>64</u>	113	<u>126</u>	526	577	500	173	-33	5	81	<u>186</u>
1977-78	117	1245	1802	706	636	253	437	403	136	18	33	135	492
1978-79	45	196	740	374	1157	844	745	515	69	7	19	36	391
1979-80	142	380	640	1238	555	521	655	227	181	40	-1	34	384
1980-81	37	416	1563	244	925	347	592	287	456	56	-6	55	411
1981-82	173	499	1944	675	1713	599	732	435	171	45	-2	34	578
1982-83	318	440	1306	1010	1189	946	511	377	148	147	-1	24	532
1983-84	19	703	1149	833	980	1040	642	692	552	92	-19	13	557
1984-85	232	1262	495	344	495	518	904	365	255	3	-8	53	407
1985-86	210	433	501	816	<u>1822</u>	556	375	379	84	-20	-43	<u>144</u>	429
1986-87	99	1065	329	675	760	560	290	143	<u>58</u>	53	41	9	337
1987-88	<u>2</u>	70	660	902	549	661	664	471	340	55	-6	32	367
1988-89	28	1058	464	855	542	1212	879	337	140	31	13	35	465
MEAN	145	567	856	814	780	691	672	492	247	65	25	43	448
MEDIAN	98	496	667	740	664	602	685	468	181	58	31	34	438

BLU3A

USGS # 14163100

LEABURG

River: MC KENZIE

Drainage Area:

1000 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

38.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										2128	1825	1727	
1928-29	1744	2022	2655	3345	2774	5287	5461	5659	4375	2291	1734	1525	3242
1929-30	1473	<u>1384</u>	4798	2799	8170	3438	3034	3037	2459	1633	1425	1365	2884
1930-31	1399	2012	2382	2965	2477	5874	6653	2753	2096	1655	1397	<u>1331</u>	2749
1931-32	1764	2778	3545	5017	3495	10830	7078	6605	4749	2560	1905	1640	4338
1932-33	1684	4631	4694	5190	3806	5583	6276	6742	<u>9535</u>	3619	2274	2110	4675
1933-34	1992	2236	8087	8484	3576	4585	4069	2614	2155	1749	1578	1484	3562
1934-35	2251	5974	7354	4929	5337	3996	5918	5212	3602	2368	1849	1649	4193
1935-36	1700	2086	2535	9510	4554	4945	5705	5395	3515	2319	1862	1716	3822
1936-37	1534	1418	2196	<u>1764</u>	3473	6034	<u>8466</u>	7333	6237	2865	2012	1744	3751
1937-38	2019	6269	6779	7173	5525	7465	7345	5969	3391	2279	1912	1753	4819
1938-39	1654	3205	4767	3948	5115	6665	5215	3804	2949	2058	1641	1532	3537
1939-40	1651	1457	3308	3308	7261	6211	3999	2791	<u>1796</u>	<u>1540</u>	<u>1387</u>	1409	2996
1940-41	1495	3408	3731	4751	3012	<u>2367</u>	<u>2429</u>	3192	2506	1721	1436	1699	2644
1941-42	1842	4612	7792	4546	5211	3367	3141	3998	3301	2177	1626	1436	3579
1942-43	1447	9347	12990	8632	7441	4940	7451	4683	5235	2944	2249	1890	5755
1943-44	2565	3785	3047	3034	3750	3513	4451	3370	2465	1754	1477	1410	2879
1944-45	<u>1359</u>	1886	1921	4715	8534	4963	6308	6915	3158	1989	1649	1546	3712
1945-46	1449	5293	8764	8448	5163	6361	4872	5465	4133	2625	1980	1769	4697
1946-47	2466	6698	9346	5055	6052	5346	5967	3272	3450	2414	1944	1755	4468
1947-48	4848	6738	4580	8756	6986	5098	5752	6580	4989	2885	2234	2102	5121
1948-49	2451	4587	7858	2982	7208	6414	6436	<u>8754</u>	4155	2560	2103	1857	4766
1949-50	2068	3094	4041	5415	8499	9175	7294	6845	7305	<u>3653</u>	2463	2138	5141
1950-51	<u>5608</u>	<u>9572</u>	8407	9221	9309	5351	6089	5740	3211	2471	2149	1944	5733
1951-52	4794	5318	7482	4303	7515	5432	6899	6144	4320	2995	2221	1965	4939
1952-53	1766	1716	2953	<u>12860</u>	10920	5606	5236	6673	5607	3230	2509	2155	5070
1953-54	2175	6592	10950	7379	8408	4955	6387	4470	4691	2808	2312	2284	5262
1954-55	2468	2817	4023	4615	4526	4937	6397	6665	6552	3430	2328	2114	4234
1955-56	3376	8325	15130	10660	5473	7299	7682	7917	5762	3395	2621	2283	<u>6674</u>
1956-57	3058	3982	8092	3343	6708	9577	5896	4630	3145	2255	2028	1809	4535
1957-58	1973	2607	9119	8035	10100	4403	6262	4542	3700	2476	1978	1907	4727
1958-59	1831	6212	5372	7390	5387	5026	5060	4547	2976	2011	1697	2054	4121
1959-60	3175	3079	2732	2931	6268	7656	7744	7317	4109	2377	2009	1803	4257
1960-61	1909	6970	4924	4285	<u>11660</u>	8134	5384	5519	3370	2295	1875	1823	4795
1961-62	2273	4925	8253	5159	4282	5840	7815	5852	3688	2354	2017	1794	4523
1962-63	2958	4741	6021	2826	8003	4299	5971	6345	3030	2490	1883	1758	4166
1963-64	1761	5391	4351	6842	4763	4590	4964	4891	5470	2944	2389	2277	4213
1964-65	2599	4339	<u>15900</u>	12300	7341	3469	4030	3697	2964	2408	2196	2678	5330
1965-66	3538	2553	2604	6985	3043	5480	5250	4118	2601	2162	1937	1898	3523
1966-67	2536	5441	6217	6862	4956	3783	3502	4121	3044	2242	1853	2245	3895
1967-68	3216	4010	4498	5102	7186	4079	3025	2873	2359	1867	2004	2494	3546
1968-69	3307	7347	8009	6890	3375	3819	5011	6758	4922	3049	2883	3005	4875
1969-70	2998	3010	5076	9632	7301	3565	3113	4129	2652	2631	2536	2196	4058
1970-71	2808	6186	5812	10360	6411	5895	5196	6340	5236	3434	<u>3548</u>	3340	5376
1971-72	3237	6177	8599	9366	8402	<u>12160</u>	5873	6852	4876	3116	3398	<u>3399</u>	6290
1972-73	2901	3308	6022	5603	2774	2974	2983	<u>2530</u>	2259	2450	2380	2690	3248
1973-74	2690	8511	10850	9548	6264	6905	6221	5985	6763	3587	3260	2854	6119
1974-75	3081	3417	6944	9229	5793	6305	3925	5581	4714	3251	3179	2774	4854
1975-76	3832	6122	9370	9575	4243	4208	4856	5907	3992	3002	3197	2848	5108
1976-77	2753	2915	<u>1913</u>	1830	<u>1630</u>	2802	2906	3909	2763	2522	2535	2432	<u>2582</u>
1977-78	2392	7199	13420	5898	4454	2795	3045	3191	2469	2450	2412	2849	4386
1978-79	2623	2934	5880	3637	5659	5550	5149	5079	2636	2684	2512	2254	3876
1979-80	2586	3638	4685	8083	3624	3768	4317	2943	3050	2357	2783	2321	3684
1980-81	2213	3645	8406	3860	4625	2965	3764	2990	4277	2554	2681	2398	3692
1981-82	2813	4322	12240	6420	9670	5024	4619	4566	3825	2846	3091	2833	5167
1982-83	3717	4758	9339	7406	6918	6167	5032	4730	3375	3197	3249	2753	5050
1983-84	2769	5740	8390	6756	6448	6622	5352	6346	6220	3134	3303	3058	5342
1984-85	3851	9485	5250	3519	3376	3170	5279	4380	4005	2857	2966	2624	4225
1985-86	3152	4663	4391	6421	9798	6191	3317	4046	2527	2570	3021	3112	4401
1986-87	2942	6739	4719	4873	5210	3928	3146	2643	2528	2626	2154	2059	3618
1987-88	2238	1990	5271	5681	3817	3933	5264	4962	4004	2477	2882	2394	3746
1988-89	2236	6273	4606	6301	3832	6658	6234	4323	3123	2638	2891	2489	4302
MEAN	2541	4621	6449	6176	5851	5373	5271	5004	3908	2571	2271	2138	4342
MEDIAN	2466	4587	5812	5681	5473	5098	5264	4891	3515	2506	2175	2080	4302

LEA3H

USGS # 14163100

LEABURG

River: MC KENZIE

Drainage Area:

1000 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile:

38.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	50	160	26	-26	-18	27	23	20
1963-64	125	746	4	286	341	564	158	614	577	-34	-228	-393	229
1964-65	-862	-514	1534	-665	-886	394	951	654	57	-107	-149	-877	-32
1965-66	-1829	175	230	64	324	821	941	386	62	-117	-297	-385	27
1966-67	-766	-809	-167	531	260	469	65	878	323	-160	-208	-682	-22
1967-68	-496	-902	-28	42	1259	299	360	330	97	-94	-142	-536	12
1968-69	-273	-173	-854	-348	342	1410	1758	423	21	-15	-825	-1164	22
1969-70	-830	-826	39	2277	-1217	1053	808	508	-26	-776	-888	-529	-23
1970-71	-744	-375	-370	1221	249	895	746	636	1	-154	-1119	-833	12
1971-72	-805	81	-962	1073	1138	393	887	422	0	-93	-939	-1137	-1
1972-73	-850	-675	-18	117	661	895	1115	699	127	-594	-773	-867	-18
1973-74	-765	-11	-188	127	853	1078	831	407	94	-234	-797	-723	50
1974-75	-1199	-774	141	256	1500	712	460	772	-24	-305	-900	-797	-23
1975-76	-775	-802	-49	125	1242	923	1090	321	-35	-389	-733	-778	6
1976-77	-846	-874	-100	65	234	1011	1407	1073	88	-788	-972	-740	-39
1977-78	-485	472	-1126	21	948	601	926	837	140	-416	-569	-608	52
1978-79	-979	-721	-230	40	1641	833	1087	299	-168	-851	-886	-719	-68
1979-80	-553	-461	51	235	933	951	1105	423	4	-368	-1205	-835	19
1980-81	-782	-521	570	-445	1631	648	998	392	11	-431	-1095	-816	1
1981-82	-678	-504	318	-259	1634	587	1019	325	-110	-179	-1047	-836	11
1982-83	-483	-654	-313	148	1441	1269	661	252	18	-119	-1015	-779	26
1983-84	-892	-694	-23	147	1322	894	855	364	7	-110	-1006	-948	-12
1984-85	-912	-471	-200	80	771	881	1540	438	22	-644	-1099	-763	-38
1985-86	-418	-677	-89	132	2365	169	860	362	1	-546	-1244	-750	-4
1986-87	-747	277	-639	306	1122	906	725	332	-328	-547	-432	-535	28
1987-88	-798	-254	-342	468	848	1263	887	209	3	-380	-1205	-845	-16
1988-89	-816	-13	-382	191	493	1629	1011	365	-5	-558	-1010	-870	-1
MEAN	-748	-383	-123	240	825	800	867	472	35	-334	-769	-731	8

LEA3SS

USGS # 14163100

LEABURG

River: MC KENZIE

Drainage Area:

1000 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

38.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										2128	1825	1727	
1928-29	1744	2022	2655	3345	2774	5287	5461	5659	4375	2291	1734	1525	3242
1929-30	1473	<u>1384</u>	4798	2799	8170	3438	3034	3037	2459	1633	1425	1365	2884
1930-31	1399	2012	2382	2965	2477	5874	6653	2753	2096	1655	1397	<u>1331</u>	2749
1931-32	1764	2778	3545	5017	3495	10830	7076	6605	4749	2560	1905	1640	4338
1932-33	1684	4631	4694	5190	3806	5583	6276	6742	<u>9535</u>	3619	2274	2110	4675
1933-34	1992	2236	8087	8484	3576	4585	4069	<u>2614</u>	2155	1749	1578	1484	3562
1934-35	2251	5974	7354	4929	5337	3996	5918	5212	3602	2368	1849	1649	4193
1935-36	1700	2086	2535	9510	4554	4945	5705	5395	3515	2319	1862	1716	3822
1936-37	1534	1418	2196	<u>1764</u>	3473	6034	<u>8466</u>	7333	6237	2865	2012	1744	3751
1937-38	2019	6269	6779	7173	5525	7465	7345	5969	3391	2279	1912	1753	4819
1938-39	1654	3205	4767	3948	5115	6665	5215	3804	2949	2058	1641	1532	3537
1939-40	1651	1457	3308	3308	7261	6211	3999	2791	<u>1796</u>	<u>1540</u>	<u>1387</u>	1409	2996
1940-41	1495	3408	3731	4751	3012	<u>2367</u>	<u>2429</u>	3192	2506	1721	1436	1699	2644
1941-42	1842	4612	7792	4546	5211	3367	3141	3998	3301	2177	1626	1436	3579
1942-43	1447	9347	12990	8632	7441	4940	7451	4683	5235	2944	2249	1890	5755
1943-44	2565	3785	3047	3034	3750	3513	4451	3370	2465	1754	1477	1410	2879
1944-45	<u>1359</u>	1886	1921	4715	8534	4963	6308	6915	3158	1989	1649	1546	3712
1945-46	1449	5293	8764	8448	5163	6361	4872	5465	4133	2625	1980	1769	4697
1946-47	2466	6698	9346	5055	6052	5346	5967	3272	3450	2414	1944	1755	4468
1947-48	4848	6738	4580	8756	6986	5098	5752	6580	4989	2885	2234	2102	5121
1948-49	2451	4587	7858	2982	7208	6414	6436	<u>8754</u>	4155	2560	2103	1857	4766
1949-50	2068	3094	4041	5415	8499	9175	7294	6845	7305	<u>3653</u>	2463	2138	5141
1950-51	<u>5608</u>	<u>9572</u>	8407	9221	9309	5351	6089	5740	3211	2471	2149	1944	5733
1951-52	4794	5318	7482	4303	7515	5432	6899	6144	4320	2995	2221	1965	4939
1952-53	1766	1716	2953	<u>12860</u>	10920	5606	5236	6673	5607	3230	2509	2155	5070
1953-54	2175	6592	10950	7379	8408	4955	6387	4470	4691	2808	2312	2284	5262
1954-55	2468	2817	4023	4615	4526	4937	6397	6665	6552	3430	2328	2114	4234
1955-56	3376	8325	15130	10660	5473	7299	7682	7917	5762	3395	<u>2621</u>	2283	<u>6674</u>
1956-57	3058	3982	8092	3343	6708	9577	5896	4630	3145	2255	2028	1809	4535
1957-58	1973	2607	9119	8035	10100	4403	6262	4542	3700	2476	1978	1907	4727
1958-59	1831	6212	5372	7390	5387	5026	5060	4547	2976	2011	1697	2054	4121
1959-60	3175	3079	2732	2931	6268	7656	7744	7317	4109	2377	2009	1803	4257
1960-61	1909	6970	4924	4285	11660	8134	5384	5519	3370	2295	1875	1823	4795
1961-62	2273	4925	8253	5159	4282	5840	7815	5852	3688	2354	2017	1794	4523
1962-63	2958	4741	6021	2826	8003	4349	6131	6371	3004	2472	1910	1781	4186
1963-64	1886	6137	4355	7128	5104	5154	5122	5505	6047	2910	2161	1884	4442
1964-65	1737	3825	<u>17430</u>	11630	6455	3863	4981	4351	3021	2301	2047	1801	5298
1965-66	1709	2728	2834	7049	3367	6301	6191	4504	2663	2045	1640	1513	3550
1966-67	1770	4632	6050	7393	5216	4252	3567	4999	3367	2082	1645	1563	3873
1967-68	2720	3108	4470	5144	8445	4378	3385	3203	2456	1773	1862	1958	3558
1968-69	3034	7174	7155	6542	3717	5229	6769	7181	4943	3034	2058	1841	4896
1969-70	2168	2184	5115	11910	6084	4618	3921	4637	2626	1855	1648	1667	4035
1970-71	2064	5811	5442	11580	6660	6790	5942	6976	5237	3280	2429	<u>2507</u>	5389
1971-72	2432	6258	7637	10440	9538	<u>12550</u>	6760	7274	4876	3023	2459	2262	6289
1972-73	2051	2633	6004	5720	3435	3869	4098	3229	2386	1856	1607	1823	3230
1973-74	1925	8500	10660	9675	7117	7983	7052	6392	6857	3353	2463	2131	6169
1974-75	1882	2643	7085	9485	7293	7017	4385	6353	4690	2946	2279	1977	4832
1975-76	3057	5320	9321	9700	5485	5131	5946	6228	3957	2613	2464	2070	5114
1976-77	1907	2041	<u>1813</u>	1895	<u>1864</u>	3813	4313	4982	2851	1734	1563	1692	<u>2543</u>
1977-78	1907	7671	12290	5919	5402	3395	3971	4028	2609	2034	1843	2242	4438
1978-79	1644	2213	5650	3677	7299	6384	6237	5377	2469	1833	1626	1535	3808
1979-80	2032	3177	4738	8319	4557	4719	5422	3366	3054	1988	1578	1486	3703
1980-81	1431	3124	8976	3414	6255	3613	4762	3382	4288	2123	1586	1582	3693
1981-82	2135	3817	12560	6160	11300	5611	5637	4891	3714	2667	2044	1996	5177
1982-83	3234	4104	9026	7554	8359	7436	5693	4982	3393	3078	2233	1975	5076
1983-84	1876	5046	8367	6904	7770	7516	6207	6710	6226	3024	2296	2110	5329
1984-85	2939	9014	5050	3599	4147	4051	6819	4819	4027	2213	1867	1861	4187
1985-86	2734	3986	4302	6553	<u>12160</u>	6360	4177	4408	2529	2024	1776	2361	4397
1986-87	2195	7016	4080	5179	6332	4834	3871	2975	2200	2079	1722	1524	3645
1987-88	1440	1735	4929	6150	4665	5195	6151	5172	4007	2096	1677	1549	3729
1988-89	1421	6260	4224	6491	4325	8287	7245	4689	3119	2080	1880	1618	4300
MEAN	2222	4458	6397	6278	6202	5727	5654	5213	3923	2426	1937	1820	4346
MEDIAN	1973	3986	5442	5919	6052	5287	5918	5172	3515	2310	1908	1802	4338

LEA3A

USGS # 14163505

WALTERVILLE

River: MC KENZIE

Drainage Area:

1050 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

28.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										2234	1916	1813	
1928-29	1831	2123	2788	3512	2913	5551	5734	5942	4594	2406	1821	1601	3404
1929-30	1547	<u>1453</u>	5038	2939	8579	3610	3186	3189	2582	1715	1496	1433	3028
1930-31	1469	2113	2501	3113	2601	6168	6986	2891	2201	1738	1467	<u>1398</u>	2886
1931-32	1852	2917	3722	5268	3670	11370	7430	6935	4986	2688	2000	1722	4555
1932-33	1768	4863	4929	5450	3996	5862	6590	7079	<u>10010</u>	3800	2388	2216	4909
1933-34	2092	2348	8491	8908	3755	4814	4272	2745	2263	1836	1657	1558	3740
1934-35	2364	6273	7722	5175	5604	4196	6214	5473	3782	2486	1941	1731	4403
1935-36	1785	2190	2662	9986	4782	5192	5990	5665	3691	2435	1955	1802	4013
1936-37	1611	1489	2306	<u>1852</u>	3647	6336	<u>8889</u>	7700	6549	3008	2113	1831	3938
1937-38	2120	6582	7118	7532	5801	7838	7712	6267	3561	2393	2008	1841	5060
1938-39	1737	3385	5005	4145	5371	6998	5476	3994	3096	2161	1723	1609	3714
1939-40	1734	1530	3473	3473	7624	6522	4199	2931	<u>1886</u>	<u>1617</u>	<u>1456</u>	1479	3146
1940-41	1570	3578	3918	4989	3163	<u>2485</u>	<u>2550</u>	3352	2631	1807	1508	1784	2776
1941-42	1934	4843	8182	4773	5472	3535	3298	4198	3466	2286	1707	1508	3758
1942-43	1519	9814	13640	9064	7813	5187	7824	4917	5497	3091	2361	1985	6042
1943-44	2693	3974	3199	3186	3938	3689	4674	3539	2588	1842	1551	1481	3023
1944-45	<u>1427</u>	1980	2017	4951	8961	5211	6623	7261	3316	2088	1731	1623	3897
1945-46	1521	5558	9202	8870	5421	6679	5116	5738	4340	2756	2079	1857	4932
1946-47	2589	7033	9813	5308	6355	5613	6265	3436	3623	2535	2041	1843	4691
1947-48	5090	7075	4809	9194	7335	5353	6040	6909	5238	3029	2346	2207	5377
1948-49	2574	4816	8251	3131	7568	6735	6758	<u>9192</u>	4363	2688	2208	1950	5004
1949-50	2171	3249	4243	5686	8924	9634	7659	7187	7670	<u>3836</u>	2586	2245	5398
1950-51	<u>5888</u>	<u>10050</u>	8827	9682	9774	5619	6393	6027	3372	2595	2256	2041	6019
1951-52	5034	5584	7856	4518	7891	5704	7244	6451	4536	3145	2332	2063	5185
1952-53	1854	1802	3101	<u>13500</u>	11470	5886	5498	7007	5887	3392	2634	2263	5324
1953-54	2284	6922	11500	7748	8828	5203	6706	4694	4926	2948	2428	2398	5525
1954-55	2591	2958	4224	4846	4752	5184	6717	6998	6880	3602	2444	2220	4446
1955-56	3545	8741	15890	11190	5747	7684	8066	8313	6050	3565	2752	2397	<u>7008</u>
1956-57	3211	4181	8497	3510	7043	10060	6191	4862	3302	2368	2129	1899	4762
1957-58	2072	2737	9575	8437	10610	4623	6575	4769	3885	2600	2077	2002	4963
1958-59	1923	6523	5641	7760	5656	5277	5313	4774	3125	2112	1782	2157	4327
1959-60	3334	3233	2869	3078	6581	8039	8131	7683	4314	2496	2109	1893	4469
1960-61	2004	7319	5170	4499	<u>12240</u>	8541	5653	5795	3539	2410	1969	1914	5034
1961-62	2387	5171	8666	5417	<u>4496</u>	6132	8206	6145	3872	2472	2118	1884	4749
1962-63	3106	4978	6322	2967	8403	4514	6270	6662	3182	2615	1977	1846	4374
1963-64	1849	5661	4569	7184	5001	4820	5212	5136	5744	3091	2508	2391	4424
1964-65	2729	4556	<u>16700</u>	12920	7708	3642	4232	3882	3112	2528	2306	2812	5597
1965-66	3715	2681	2734	7334	3195	5754	5513	4324	2731	2270	2034	1993	3699
1966-67	2663	5713	6528	7205	5204	3972	3677	4327	3196	2354	1946	2357	4090
1967-68	3377	4211	4723	5357	7545	4283	3176	3017	2477	1960	2104	2619	3723
1968-69	3472	7714	8409	7235	3544	4010	5262	7096	5168	3201	3027	3155	5118
1969-70	3148	3161	5330	10110	7666	3743	3269	4335	2785	2763	2663	2306	4261
1970-71	2948	6495	6103	10880	6732	6190	5456	6657	5498	3606	<u>3725</u>	3507	5645
1971-72	3399	6486	9029	9834	8822	<u>12770</u>	6167	7195	5120	3272	3568	<u>3569</u>	6604
1972-73	3046	3473	6323	5883	2913	3123	3132	<u>2657</u>	2372	2573	2499	2825	3410
1973-74	2825	8937	11390	10030	6577	7250	6532	6284	7101	3766	3423	2997	6425
1974-75	3235	3588	7291	9690	6083	6620	4121	5860	4950	3414	3338	2913	5097
1975-76	4024	6428	9839	10050	4455	4418	5099	6202	4192	3152	3357	2990	5363
1976-77	2891	3061	<u>2009</u>	1922	<u>1712</u>	2942	3051	4104	2901	2648	2662	2554	<u>2711</u>
1977-78	2511	7559	14090	6193	4677	2934	3197	3351	2593	2572	2533	2992	4605
1978-79	2754	3081	6174	3819	5941	5828	5407	5333	2768	2818	2637	2366	4069
1979-80	2715	3820	4919	8487	3805	3956	4533	3090	3203	2474	2922	2437	3868
1980-81	2324	3827	8826	4053	4856	3113	3952	3139	4491	2681	2815	2518	3877
1981-82	2954	4538	12860	6741	10150	5275	4850	4794	4016	2988	3245	2974	5425
1982-83	3903	4996	9806	7777	7264	6476	5284	4967	3544	3356	3411	2891	5302
1983-84	2907	6027	8810	7094	6770	6953	5620	6663	6531	3291	3468	3211	5609
1984-85	4044	9960	5513	3695	3545	3328	5543	4599	4205	3000	3114	2755	4436
1985-86	3310	4896	4611	6742	10290	6501	3483	4248	2654	2699	3172	3267	4621
1986-87	3090	7076	4955	5116	5470	4125	3303	2775	2655	2758	2262	2162	3799
1987-88	2350	2089	5535	5965	4008	4129	5528	5210	4204	2600	3026	2514	3933
1988-89	2348	6586	4836	6616	4024	6991	6545	4540	3279	2770	3035	2613	4517
MEAN	2668	4852	6772	6485	6143	5642	5534	5254	4103	2700	2385	2245	4559
MEDIAN	2589	4816	6103	5965	5747	5353	5528	5136	3691	2631	2284	2184	4517

WAV3H

USGS # 14163505

WALTERVILLE

River: MC KENZIE

Drainage Area:

1050 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

28.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										2234	1916	1813	
1928-29	1831	2123	2788	3512	2913	5551	5734	5942	4594	2406	1821	1601	3404
1929-30	1547	<u>1453</u>	5038	2939	8579	3610	3186	3189	2582	1715	1496	1433	3028
1930-31	1469	2113	2501	3113	2601	6168	6986	2891	2201	1738	1467	<u>1398</u>	2886
1931-32	1852	2917	3722	5268	3670	11370	7430	6935	4986	2688	2000	1722	4555
1932-33	1768	4863	4929	5450	3996	5862	6590	<u>7079</u>	<u>10010</u>	3800	2388	2216	4909
1933-34	2092	2348	8491	8908	3755	4814	4272	<u>2745</u>	2263	1836	1657	1558	3740
1934-35	2364	6273	7722	5175	5604	4196	6214	5473	3782	2486	1941	1731	4403
1935-36	1785	2190	2662	9986	4782	5192	5990	5665	3691	2435	1955	1802	4013
1936-37	1611	1489	2306	<u>1852</u>	3647	6336	<u>8889</u>	7700	6549	3008	2113	1831	3938
1937-38	2120	6582	7118	7532	5801	7838	7712	6267	3561	2393	2008	1841	5060
1938-39	1737	3365	5005	4145	5371	6998	5476	3994	3096	2161	1723	1609	3714
1939-40	1734	1530	3473	3473	7624	6522	4199	2931	<u>1886</u>	<u>1617</u>	<u>1456</u>	1479	3146
1940-41	1570	3578	3918	4989	3163	<u>2485</u>	<u>2550</u>	3352	2631	1807	1508	1784	2776
1941-42	1934	4843	8182	4773	5472	3535	3298	4198	3466	2286	1707	1508	3758
1942-43	1519	9814	13640	9064	7813	5187	7824	4917	5497	3091	2361	1985	6042
1943-44	2693	3974	3199	3186	3938	3689	4674	3539	2588	1842	1551	1481	3023
1944-45	<u>1427</u>	1980	2017	4951	8961	5211	6623	7261	3316	2088	1731	1623	3897
1945-46	1521	5558	9202	8870	5421	6679	5116	5738	4340	2756	2079	1857	4932
1946-47	2589	7033	9813	5308	6355	5613	6265	3436	3623	2535	2041	1843	4691
1947-48	5090	7075	4809	9194	7335	5353	6040	6909	5238	3029	2346	2207	5377
1948-49	2574	4816	8251	3131	7568	6735	6758	<u>9192</u>	4363	2688	2208	1950	5004
1949-50	2171	3249	4243	5686	8924	9634	7859	7187	7670	<u>3836</u>	2586	2245	5398
1950-51	<u>5888</u>	<u>10050</u>	8827	9682	9774	5619	6393	6027	3372	2595	2256	2041	6019
1951-52	5034	5584	7856	4518	7891	5704	7244	6451	4536	3145	2332	2063	5185
1952-53	1854	1802	3101	<u>13500</u>	11470	5886	5498	7007	5887	3392	2634	2263	5324
1953-54	2284	6922	11500	7748	8828	5203	6706	4694	4926	2948	2428	2398	5525
1954-55	2591	2958	4224	4846	4752	5184	6717	6998	6880	3602	2444	2220	4446
1955-56	3545	8741	15890	11190	5747	7664	8066	8313	6050	3565	<u>2752</u>	2397	<u>7008</u>
1956-57	3211	4181	8497	3510	7043	10060	6191	4862	3302	2368	2129	1899	4762
1957-58	2072	2737	9575	8437	10610	4623	6575	4769	3885	2600	2077	2002	4963
1958-59	1923	6523	5641	7760	5656	5277	5313	4774	3125	2112	1782	2157	4327
1959-60	3334	3233	2869	3078	6581	8039	8131	7683	4314	2496	2109	1893	4469
1960-61	2004	7319	5170	4499	12240	8541	5653	5795	3539	2410	1969	1914	5034
1961-62	2387	5171	8666	5417	4496	6132	8206	6145	3872	2472	2118	1884	4749
1962-63	3106	4978	6322	2967	8403	4564	6430	6688	3156	2597	2004	1869	4394
1963-64	1974	6406	4573	7470	5342	5383	5370	5750	6320	3058	2280	1998	4653
1964-65	1867	4042	<u>18230</u>	12250	6822	4037	5182	4535	3169	2421	2157	1935	5565
1965-66	1886	2856	2964	7398	3519	6575	6454	4710	2793	2153	1737	1608	3726
1966-67	1897	4904	6360	7736	5464	4441	3742	5205	3519	2194	1738	1675	4068
1967-68	2880	3309	4695	5400	8804	4582	3537	3347	2574	1866	1962	2083	3735
1968-69	3200	7541	7556	8887	3886	5420	7019	7519	5189	3187	2202	1991	5140
1969-70	2318	2335	5369	12390	6449	4796	4077	4844	2759	1987	1774	1776	4238
1970-71	2204	6121	5733	12100	6981	7085	6202	7293	5499	3452	2607	<u>2674</u>	5658
1971-72	2594	6567	8066	10910	9958	<u>13160</u>	7053	7616	5120	3179	2629	2432	6603
1972-73	2196	2798	6305	6000	3574	4018	4247	3356	2499	1979	1726	1958	3392
1973-74	2080	8925	11200	10150	7430	8328	7363	6692	7195	3532	2626	2273	6474
1974-75	2036	2814	7433	9947	7583	7332	4582	6632	4926	3108	2438	2115	5074
1975-76	3249	5626	9790	10180	5697	5342	6189	6523	4156	2763	2623	2212	5369
1976-77	2045	2187	<u>1909</u>	1986	<u>1945</u>	3954	4459	5177	2989	1861	1690	1814	<u>2672</u>
1977-78	2026	8031	12960	6213	5825	3535	4123	4187	2733	2157	1964	2384	4658
1978-79	1775	2360	5944	3859	7582	6661	6494	5631	2600	1967	1751	1648	4002
1979-80	2162	3359	4970	8723	4738	4907	5638	3513	3206	2106	1717	1602	3887
1980-81	1542	3306	9396	3607	6486	3761	4950	3532	4502	2250	1720	1702	3878
1981-82	2276	4034	13170	6481	11790	5862	5868	5119	3906	2810	2198	2138	5436
1982-83	3420	4342	9493	7924	8705	7745	5945	5218	3562	3238	2395	2112	5329
1983-84	2015	5333	8786	7242	8092	7847	6475	7027	6537	3181	2462	2263	5596
1984-85	3132	9488	5313	3775	4315	4209	7083	5038	4227	2356	2015	1992	4399
1985-86	2892	4220	4522	6874	<u>12650</u>	6670	4343	4610	2655	2153	1927	2517	4617
1986-87	2342	7353	4316	5422	6592	5030	4028	3107	2326	2211	1830	1627	3826
1987-88	1552	1835	5193	6434	4856	5392	6414	5420	4207	2220	1821	1669	3917
1988-89	1533	6574	4454	6806	4517	8620	7556	4905	3275	2212	2025	1743	4515
MEAN	2349	4689	6719	6587	6495	5996	5918	5463	4118	2554	2050	1927	4563
MEDIAN	2072	4220	5733	6213	6355	5551	6191	5420	3691	2428	2011	1896	4555

WAV3A

USGS # 14168100

FERN RIDGE

River: LONG TOM

Drainage Area:

252 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

25.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										50	25	17	
1928-29	17	89	585	985	675	322	810	160	97	45	24	17	317
1929-30	20	24	53	465	1625	437	233	174	79	38	24	24	257
1930-31	27	96	146	604	447	722	825	96	58	28	20	17	256
1931-32	33	547	1330	1650	945	1095	593	262	118	41	23	16	555
1932-33	18	118	1050	1960	1517	1075	365	367	170	62	32	32	560
1933-34	29	45	1450	1255	378	315	350	96	45	24	16	12	337
1934-35	45	910	1490	1710	680	1180	430	142	64	35	20	17	562
1935-36	26	82	321	2825	1060	627	332	190	100	45	21	17	471
1936-37	<u>14</u>	<u>17</u>	58	334	2615	807	1560	260	<u>308</u>	96	37	27	494
1937-38	44	1280	1780	1540	2200	<u>2175</u>	527	144	63	35	19	16	811
1938-39	20	142	467	693	1540	745	160	74	48	27	<u>10</u>	11	321
1939-40	15	20	253	656	2217	1194	475	222	71	29	16	24	426
1940-41	37	235	858	1170	526	309	283	193	74	32	16	28	313
1941-42	25	443	1254	1745	822	59	27	25	21	17	267	522	434
1942-43	127	360	2206	2891	1780	271	416	215	100	<u>115</u>	47	<u>10</u>	708
1943-44	302	1456	506	583	499	19	194	25	<u>14</u>	<u>13</u>	13	13	301
1944-45	368	478	203	640	972	810	299	193	64	21	21	117	345
1945-46	1058	719	1418	2322	682	624	27	27	24	27	35	498	625
1946-47	735	791	1121	486	616	287	443	31	29	29	29	73	388
1947-48	<u>1623</u>	1116	604	2214	999	609	227	448	92	42	39	31	672
1948-49	1403	455	1688	549	1830	796	44	19	30	27	31	752	629
1949-50	536	184	607	1840	2530	871	61	37	36	39	43	378	586
1950-51	1010	2089	1450	1711	1512	735	33	40	42	48	<u>538</u>	562	810
1951-52	181	680	2122	1816	1111	148	41	43	39	39	263	560	587
1952-53	340	89	500	2199	1741	471	71	369	187	42	163	572	556
1953-54	698	810	1961	1821	<u>2733</u>	281	301	56	63	50	314	489	786
1954-55	582	334	634	997	129	289	820	211	53	47	286	852	438
1955-56	306	918	<u>3219</u>	<u>4264</u>	930	990	56	57	59	51	81	634	970
1956-57	579	218	537	448	302	1676	161	128	58	43	214	502	408
1957-58	512	263	1272	1802	2436	395	172	85	103	51	78	417	622
1958-59	557	828	523	2233	1616	75	62	54	51	36	160	695	567
1959-60	310	190	93	235	985	979	450	571	65	39	38	37	331
1960-61	982	1053	821	609	2550	1520	86	198	58	39	37	34	654
1961-62	964	881	1274	371	328	858	224	220	50	30	30	41	442
1962-63	1125	715	723	177	894	145	<u>1583</u>	<u>825</u>	80	34	29	177	538
1963-64	954	823	429	1795	1008	137	46	47	43	31	38	<u>925</u>	521
1964-65	203	274	2381	3281	985	49	47	42	31	33	30	160	629
1965-66	479	388	596	3006	68	805	52	53	51	35	47	46	476
1966-67	914	501	1227	1127	710	45	64	134	55	47	50	50	411
1967-68	840	489	703	925	809	171	50	51	48	57	54	45	353
1968-69	1016	1078	2342	2110	1444	96	48	46	38	56	60	56	697
1969-70	719	478	1234	1458	1962	49	50	51	47	53	61	59	510
1970-71	721	616	1247	2066	734	1073	815	175	103	57	68	67	647
1971-72	881	852	1782	1794	1061	1081	816	259	69	63	65	63	733
1972-73	756	488	839	784	79	49	38	25	39	51	63	67	276
1973-74	744	<u>2177</u>	2647	2530	1495	1346	692	99	48	52	62	61	<u>995</u>
1974-75	856	439	754	1237	714	998	259	297	46	52	58	47	481
1975-76	990	675	1228	1748	393	469	225	83	49	47	45	42	503
1976-77	929	373	<u>45</u>	<u>31</u>	<u>13</u>	<u>4</u>	<u>4</u>	<u>10</u>	31	61	176	65	<u>147</u>
1977-78	232	519	2295	1648	392	39	30	30	35	49	52	74	453
1978-79	868	434	275	167	780	295	147	309	52	69	61	50	290
1979-80	933	792	942	1460	82	355	321	91	78	67	79	77	443
1980-81	857	505	1887	462	265	84	217	166	133	55	64	64	400
1981-82	923	1192	3033	1789	1238	364	1075	145	68	48	49	39	829
1982-83	985	470	2099	1024	1831	1233	717	235	61	50	47	227	744
1983-84	812	1175	1199	529	1055	431	371	376	136	42	44	37	515
1984-85	994	1987	1300	293	312	61	64	49	98	57	48	60	443
1985-86	950	553	468	949	2104	617	48	51	53	46	47	83	488
1986-87	743	1105	549	1227	1078	83	44	28	43	56	59	52	418
1987-88	476	448	1223	1783	109	28	32	202	132	57	65	55	388
1988-89	824	1104	513	1272	65	834	141	74	47	68	50	57	425
MEAN	578	633	1112	1382	1069	569	314	154	70	46	74	175	513
MEDIAN	698	501	1050	1272	972	437	217	99	58	46	47	57	488

FRN3H

USGS # 14168100

FERN RIDGE

River: LONG TOM

Drainage Area:

252 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

25.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	2	869	-761	403	269	155	183	59	-29	-333	-561	19
1942-43	-94	953	652	-435	-400	348	443	-42	-15	-147	-58	-37	99
1943-44	-134	-1226	-16	4	210	320	247	110	27	-34	-40	-22	-45
1944-45	-375	-370	-1	18	526	593	362	83	-23	-67	-68	-145	41
1945-46	-1109	232	374	-707	537	543	288	52	-7	-64	-85	-539	-45
1946-47	-698	121	-118	81	512	677	212	40	55	-24	-55	-93	55
1947-48	-963	-398	16	7	660	410	488	-2	0	-47	-60	-24	4
1948-49	-1385	16	5	-8	1163	-64	191	284	-43	-68	-76	-791	-74
1949-50	-528	10	1	839	-429	587	376	82	2	-98	-95	-449	29
1950-51	-340	-290	-242	615	-118	507	176	109	-45	-94	-592	-582	-73
1951-52	9	46	-38	13	495	536	227	38	56	-66	-307	-580	34
1952-53	-346	-60	3	592	-99	554	346	129	7	-64	-167	-575	29
1953-54	-630	-82	-36	1282	-954	592	443	53	12	-76	-314	-488	-8
1954-55	-537	-102	30	-28	436	743	371	16	-18	-52	-352	-892	-35
1955-56	-197	77	1296	-1388	634	386	315	97	-27	-94	-124	-637	26
1956-57	-446	-104	6	-34	1120	192	323	74	-34	-89	-259	-520	11
1957-58	-489	-193	579	-64	275	347	413	52	-24	-100	-164	-430	16
1958-59	-524	-340	-2	340	145	583	322	80	-30	-93	-223	-703	-37
1959-60	-275	-156	4	138	498	587	346	3	24	-94	-84	-61	76
1960-61	-995	-107	-215	129	547	551	267	109	-38	-83	-86	-57	-3
1961-62	-943	-338	-10	8	546	780	211	34	-30	-81	-70	-57	0
1962-63	-980	-238	-76	46	526	893	101	34	-8	-44	-65	-191	-4
1963-64	-956	-300	0	717	-510	848	173	41	-15	-70	-73	-988	-90
1964-65	-210	92	1376	-718	-324	225	267	58	-17	-72	-63	-202	37
1965-66	-454	-171	410	-407	553	741	177	-6	-75	-84	-114	-64	39
1966-67	-894	-188	2	499	48	619	391	31	-45	-121	-124	-83	11
1967-68	-787	-412	-17	107	812	450	168	65	-50	-116	-41	-33	9
1968-69	-894	-414	7	-17	666	513	178	79	18	-110	-124	-65	-19
1969-70	-694	-432	25	1407	-913	523	209	79	-44	-129	-124	-101	-8
1970-71	-706	-307	152	495	95	695	131	11	-15	-99	-121	-54	23
1971-72	-890	-296	-98	706	115	600	126	13	-17	-125	-119	-69	-4
1972-73	-799	-434	-2	212	331	595	270	33	-57	-128	-122	-70	-16
1973-74	-705	-214	-112	358	235	792	164	23	-49	-81	-121	-117	13
1974-75	-866	-331	27	58	802	495	234	6	-33	-80	-80	-82	7
1975-76	-910	-344	-20	49	785	539	224	15	-43	-96	-67	-70	2
1976-77	-942	-367	-16	14	128	495	78	98	-29	-100	-197	-58	-76
1977-78	-214	-22	-82	3	496	232	525	193	-11	-76	-75	-28	75
1978-79	-879	-369	-32	162	663	356	448	50	-61	-126	-89	-55	0
1979-80	-851	-431	9	109	594	581	311	37	-14	-103	-143	-111	-4
1980-81	-875	-353	230	12	650	420	276	-3	-8	-86	-119	-63	2
1981-82	-825	-427	130	180	437	537	274	-8	-20	-75	-94	-43	3
1982-83	-993	-233	-78	90	724	666	131	5	-6	-15	-45	-259	-6
1983-84	-820	-392	6	140	596	504	322	-12	11	-72	-98	-56	8
1984-85	-942	-107	-262	110	536	615	249	33	-9	-110	-99	-71	-9
1985-86	-868	-331	-5	76	886	213	161	218	-59	-88	-106	-53	-3
1986-87	-733	-420	-22	185	416	476	151	38	-58	-69	-102	-82	-21
1987-88	-473	-378	5	118	294	414	484	179	-14	-96	-127	-86	25
1988-89	-775	-443	94	-46	554	657	266	56	-40	-102	-83	-96	0
MEAN	-679	-220	100	111	352	515	271	61	-18	-84	-132	-239	2

FRN3S

USGS # 14168100

FERN RIDGE

River: LONG TOM

Drainage Area: 252 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 25.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										50	25	17	
1928-29	17	89	585	985	675	322	810	160	97	45	24	17	317
1929-30	20	24	53	465	1625	437	233	174	79	38	24	24	257
1930-31	27	96	146	604	447	722	825	96	58	28	20	17	256
1931-32	33	547	1330	1650	945	1095	593	262	118	41	23	16	555
1932-33	18	118	1050	1980	1517	1075	365	367	170	62	32	32	560
1933-34	29	45	1450	1255	378	315	350	96	45	24	16	12	337
1934-35	45	910	1490	1710	680	1180	430	142	64	35	20	17	562
1935-36	26	82	321	2825	1060	627	332	190	100	45	21	17	471
1936-37	14	17	58	334	2615	807	1560	260	<u>308</u>	<u>96</u>	<u>37</u>	27	494
1937-38	44	1280	1780	1540	2200	<u>2175</u>	527	144	63	35	19	16	811
1938-39	20	142	467	693	1540	745	160	74	48	27	10	11	321
1939-40	15	20	253	656	2217	1194	475	222	71	29	16	24	426
1940-41	37	235	858	1170	528	309	283	193	74	32	16	28	313
1941-42	25	445	2123	984	1225	328	182	208	80	-12	-66	-39	454
1942-43	33	1313	2858	2456	1380	619	859	173	85	-32	-11	-27	807
1943-44	168	230	490	587	709	339	441	135	41	-21	-27	-9	255
1944-45	-7	108	202	658	1498	1403	661	276	41	-46	-47	-28	386
1945-46	<u>-51</u>	951	1792	1615	1219	1167	315	79	17	-37	-50	-41	579
1946-47	37	912	1003	567	1128	964	655	71	84	5	-26	-20	443
1947-48	660	718	620	2221	1659	1019	715	446	92	-5	-21	7	675
1948-49	18	471	1693	541	2993	732	235	303	-13	-41	-45	-39	555
1949-50	8	194	608	2679	2101	1458	437	119	38	-59	-52	<u>-71</u>	614
1950-51	<u>670</u>	1799	1208	2326	1394	1242	209	149	-3	-46	-54	-20	737
1951-52	190	726	2084	1829	1606	684	268	81	95	-27	-44	-20	621
1952-53	-6	29	503	2791	1642	1025	417	498	194	-22	-4	-3	585
1953-54	68	728	1925	<u>3103</u>	1779	873	744	109	75	-26	0	1	778
1954-55	45	232	664	969	565	1032	1191	227	35	-5	-66	-40	403
1955-56	109	995	<u>4515</u>	2876	1564	1376	371	154	32	-43	-43	-3	996
1956-57	133	114	543	414	1422	1868	484	202	24	-46	-45	-18	419
1957-58	23	70	1851	1738	2711	742	585	137	79	-49	<u>-86</u>	-13	637
1958-59	33	488	521	2573	1761	658	384	134	21	-57	-63	-8	530
1959-60	35	34	97	373	1483	1566	796	574	89	-55	-46	-24	406
1960-61	-13	946	606	738	<u>3097</u>	2071	353	307	20	-44	-49	-23	651
1961-62	21	543	1284	379	874	1838	435	254	20	-51	-40	-16	442
1962-63	145	477	647	223	1420	1038	<u>1684</u>	<u>859</u>	72	-10	-36	-14	535
1963-64	-2	523	429	2512	498	985	219	88	28	-39	-35	-63	431
1964-65	-7	366	3757	2563	661	274	314	100	14	-39	-33	-42	666
1965-66	25	217	1006	2599	621	1546	229	<u>47</u>	<u>-24</u>	-49	-67	-18	515
1966-67	20	313	1229	1626	758	664	455	165	10	-74	-74	-33	421
1967-68	53	77	686	1032	1621	621	218	116	-2	-58	13	12	362
1968-69	122	664	2349	2093	2110	608	226	125	55	-54	-65	-8	679
1969-70	25	46	1259	2865	1049	572	259	130	3	-76	-64	-41	502
1970-71	15	309	1399	2560	829	1768	946	186	88	-41	-53	13	671
1971-72	-9	556	1684	2500	1175	1681	942	272	52	-62	-54	-6	729
1972-73	-42	55	837	996	410	644	308	57	-18	<u>-76</u>	-59	-3	260
1973-74	39	<u>1964</u>	2535	2887	1730	2138	856	121	0	-29	-59	-56	<u>1008</u>
1974-75	-10	108	781	1295	1516	1492	493	303	14	-28	-24	-36	487
1975-76	81	331	1208	1797	1178	1007	449	98	7	-49	-22	-28	505
1976-77	-13	<u>6</u>	<u>29</u>	<u>45</u>	<u>141</u>	499	<u>82</u>	108	2	-39	-20	7	<u>71</u>
1977-78	18	497	2213	1651	888	<u>271</u>	554	223	24	-27	-23	<u>46</u>	528
1978-79	-11	65	243	329	1442	652	595	359	-9	-57	-28	-5	290
1979-80	81	361	951	1569	675	936	632	128	64	-36	-64	-34	439
1980-81	-18	152	2117	474	914	504	493	163	126	-31	-55	1	401
1981-82	97	766	3163	1969	1675	901	1349	137	47	-27	-45	-4	832
1982-83	-8	237	2021	1114	2555	1899	848	240	55	35	2	-32	738
1983-84	-8	782	1204	668	1651	935	693	364	147	-30	-54	-19	523
1984-85	52	1880	1037	403	848	677	313	81	89	-53	-51	-11	434
1985-86	82	222	462	1025	2989	830	210	269	-6	-41	-59	30	485
1986-87	10	684	527	1412	1494	559	195	66	-15	-13	-43	-30	397
1987-88	4	70	1228	1901	403	443	516	381	118	-39	-62	-31	414
1988-89	50	661	607	1226	619	1491	407	130	7	-34	-32	-39	424
MEAN	55	460	1191	1469	1346	974	527	202	56	-20	-28	-10	515
MEDIAN	25	313	1006	1412	1394	901	441	160	48	-31	-38	-10	494

FRN3A

USGS # 14174000

ALBANY

River: WILLAMETTE

Drainage Area: 4840 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 119.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	2	869	-761	403	269	155	183	59	-29	-333	-561	19
1942-43	-94	1129	909	-825	-242	553	597	-29	-21	-157	-78	-230	126
1943-44	-356	-1319	-14	4	332	516	444	136	26	-37	-55	-274	-49
1944-45	-589	-375	-8	19	701	760	501	115	-27	-78	-90	-503	31
1945-46	-1203	218	486	-822	699	718	422	96	-11	-76	-107	-768	-35
1946-47	-927	119	-122	85	676	916	308	47	43	-27	-69	-110	73
1947-48	-1336	-473	41	-9	812	585	651	11	-9	-57	-88	-435	-30
1948-49	-1433	20	9	-17	1277	150	307	346	-55	-99	-118	-976	-59
1949-50	-731	106	2	840	47	1069	816	285	-1	-149	-211	-1051	87
1950-51	180	-1638	-242	612	337	976	494	425	-103	-210	-721	-863	-61
1951-52	-721	-49	-136	26	919	1007	678	295	-1	-106	-765	-1063	3
1952-53	-898	-83	10	592	364	1033	801	378	-54	-111	-700	-1199	10
1953-54	-912	479	-202	1698	-1226	1222	2146	1801	1150	-569	-1418	-1648	218
1954-55	-1563	-534	1097	-403	2053	3014	850	2613	62	-347	-1804	-2308	220
1955-56	-2469	-462	4823	-5737	2680	1953	2246	1467	60	-233	-1087	-2183	76
1956-57	-973	-2746	-35	-972	6789	-730	1572	1203	36	-753	-1572	-2411	-96
1957-58	-1792	-1938	3319	-1283	1052	1435	2665	1099	276	-548	-1656	-2591	-1
1958-59	-2678	-1052	125	1681	727	3167	2077	671	-63	-957	-1866	-1653	11
1959-60	-2722	-1149	24	799	1844	3318	1799	624	214	-771	-1502	-1740	55
1960-61	-3077	339	-1675	316	2515	2637	2277	894	-57	-1109	-2018	-1777	-85
1961-62	-1810	1111	408	-570	2317	4145	4527	702	81	-697	-1506	-1933	546
1962-63	-4088	-1275	-2063	127	6193	3032	2259	836	78	-544	-1623	-2033	28
1963-64	-4006	-2321	64	1653	1313	4317	3236	1547	1448	-640	-1862	-3179	128
1964-65	-3840	-2328	9235	-5268	-2023	1918	4102	2611	608	-730	-1698	-2701	8
1965-66	-5207	-3298	659	-149	2684	5495	4766	1984	-57	-1061	-2420	-3388	-16
1966-67	-4043	-3653	-295	3594	1737	3467	2363	3599	1277	-1846	-2534	-3362	21
1967-68	-3398	-4675	-42	182	7915	2583	1616	1591	129	-1567	-2182	-1207	48
1968-69	-3859	-2853	-2647	-262	3095	5431	6321	3416	226	-702	-3203	-3867	68
1969-70	-4807	-4080	-3	12180	-6763	4714	3271	1949	-431	-2419	-3150	-2980	-147
1970-71	-4138	-1267	-1879	6889	-667	4598	2858	2910	-5	-695	-3961	-3783	84
1971-72	-5276	1100	-4819	6016	1717	5005	2322	2669	-64	-789	-3084	-5258	-43
1972-73	-4006	-3790	-235	1068	2324	4147	4786	2520	-11	-1731	-2625	-2082	15
1973-74	-5619	1442	-1941	984	3308	5092	3026	2091	922	-461	-2283	-4446	150
1974-75	-6289	-3366	61	691	7195	3811	2033	3184	388	-868	-2743	-5341	-148
1975-76	-4551	-3242	-109	667	5281	3865	4120	2862	118	-921	-1687	-5090	94
1976-77	-5545	-3702	-678	-119	689	4478	4664	4855	885	-1801	-2611	-3211	-180
1977-78	-3722	1947	-3192	-1024	4122	2347	3883	3371	512	-592	-2029	-3771	116
1978-79	-5346	-2253	-1224	1033	7444	4006	4093	1478	-342	-2052	-2530	-3934	-23
1979-80	-4738	-2953	-414	1397	3680	4324	4877	2113	802	-966	-2506	-4798	55
1980-81	-5624	-2820	1678	-1321	6600	3150	4032	2317	304	-688	-3078	-4731	-61
1981-82	-4971	-2651	4277	-2950	6663	2986	4066	1520	9	-594	-2751	-3908	96
1982-83	-4526	-3617	-879	562	6913	5885	2347	1426	52	-115	-2494	-4873	18
1983-84	-5413	-3369	-46	568	6404	4530	3408	1674	-60	-174	-1738	-5465	7
1984-85	-5371	-1826	-2361	415	4483	3942	6245	1988	218	-1106	-2427	-4650	-75
1985-86	-4572	-3989	-314	913	11624	-164	3564	2085	-67	-886	-2491	-4297	37
1986-87	-5146	-717	-3381	1707	4436	3927	2795	1309	-499	-738	-2264	-3133	-177
1987-88	-3334	-2156	-1524	1994	3622	4837	5435	1243	32	-1229	-2854	-3753	177
1988-89	-5516	-2546	-947	663	2825	7827	3935	1807	-44	-1323	-2407	-4494	-33
MEAN	-3257	-1512	-69	573	2664	2880	2641	1548	167	-716	-1771	-2709	27

ALB3SS

USGS # 14180550 **DETROIT**
Monthly mean storage change, at site, in cfs.

River: N. SANTIAM

Drainage Area: 438 Sq. Mi.
River Mile: 60.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	1820	-804	1349	1207	1470	84	-23	15	-276	415
1953-54	-1138	450	-1390	78	1892	808	1546	160	54	28	-210	-1252	69
1954-55	-1431	-1775	361	-364	913	348	422	2726	269	-23	-162	-914	29
1955-56	-1474	-7	618	-2503	534	1392	1876	767	239	-36	-294	-1143	-8
1956-57	-1511	-1943	46	-373	2388	1867	965	81	220	-116	-192	-1153	-8
1957-58	-1862	-1124	1153	-589	1190	747	1114	762	86	-345	-322	-920	-17
1958-59	-1416	-1471	-112	1187	391	1716	1207	76	49	-148	-284	-1008	16
1959-60	-1787	-1469	-130	239	2081	1973	319	49	261	-213	-433	-1082	-22
1960-61	-1290	755	-2531	294	2181	948	1286	402	-277	-307	-517	-672	1
1961-62	-1343	-1094	-252	-366	1271	1442	1866	-103	151	-185	-442	-825	-1
1962-63	-1468	-71	-1561	23	2948	874	821	517	28	-242	-586	-838	14
1963-64	-1551	-1277	-288	438	453	1077	1716	474	337	-85	-394	-954	-6
1964-65	-1508	-672	2424	-257	-1549	887	1837	210	110	-100	-346	-1164	2
1965-66	-1469	-1766	-29	49	418	2242	1269	151	455	-36	-366	-889	2
1966-67	-1300	-1951	-63	1335	270	888	555	1322	377	-315	-602	-921	-31
1967-68	-291	-2627	293	-249	3342	303	469	772	104	-259	-337	-785	52
1968-69	-1654	-1570	-364	-530	169	1452	2973	800	111	-8	-857	-1370	-74
1969-70	-1013	-1368	-19	3778	-2066	1394	729	563	8	-427	-884	-1171	-19
1970-71	-1197	-84	-1062	1493	598	769	977	928	-70	179	-735	-862	74
1971-72	-1781	-52	-1695	1431	1888	291	979	593	69	-23	-607	-1372	-33
1972-73	-1195	-1249	317	-371	580	888	1128	903	360	-275	-548	-713	-18
1973-74	-1090	-721	952	-763	729	1372	753	634	371	33	-506	-1430	25
1974-75	-1851	-975	757	122	1295	1094	460	597	476	-237	-694	-1006	-5
1975-76	-1280	-1408	33	26	1213	731	1501	751	451	-297	-643	-1113	-8
1976-77	-1394	-1378	-218	-137	103	1334	2094	1535	100	-425	-758	-1101	-21
1977-78	-1383	950	-1238	-719	1302	517	1031	1144	194	-27	-154	-1081	32
1978-79	-1470	-1126	-480	-86	2680	1085	1253	85	-24	-320	-426	-1210	-24
1979-80	-1467	-948	-157	184	1509	1255	1420	263	9	-196	-648	-1604	-37
1980-81	-1324	-789	1683	-1414	2466	660	1331	83	9	-134	-616	-1548	17
1981-82	-1350	-1031	672	-178	2332	407	1220	310	120	-93	-406	-1335	40
1982-83	-1001	-1587	-123	126	1942	1792	576	118	49	-7	-132	-1659	-1
1983-84	-1732	-476	-519	431	1505	1274	1062	414	-157	24	-239	-1755	-19
1984-85	-1250	-976	-413	119	689	1077	2530	259	48	-142	-340	-1312	18
1985-86	-1382	-1507	52	297	3489	-182	853	472	-71	-272	-391	-892	15
1986-87	-1555	-28	-1415	491	1275	1276	1076	569	8	-173	-388	-1091	-7
1987-88	-1355	-1068	-545	629	1199	1904	865	98	1	-139	-345	-1048	14
1988-89	-1771	-640	-708	299	-397	2980	1440	295	13	-101	-244	-1354	-11
MEAN	-1398	-946	-165	162	1146	1135	1209	574	125	-148	-433	-1103	13

DET3S

USGS # 14180700 **BIG CLIFF**
Monthly mean historical streamflow in cfs.

River: N. SANTIAM

Drainage Area: 453 Sq. Mi.
River Mile: 58.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										830	575	525	
1928-29	670	1410	1730	1690	1120	2540	3160	3640	2320	985	580	465	1696
1929-30	<u>460</u>	<u>415</u>	2630	1110	4640	1960	1630	1690	1260	655	475	455	1428
1930-31	560	1020	1110	1640	1260	3480	3620	1450	1110	695	<u>445</u>	<u>425</u>	1401
1931-32	720	1640	2030	2610	1690	5700	3820	3920	2635	1118	688	572	2266
1932-33	668	3193	2231	2424	1438	2553	3337	3821	<u>5176</u>	1719	851	884	2357
1933-34	972	1197	5674	4413	1585	2551	2121	1300	844	631	537	495	1870
1934-35	1051	3172	3538	1960	2478	2056	2737	2954	1847	927	600	527	1982
1935-36	609	924	1224	4782	1883	2443	3169	3203	1730	874	607	563	1837
1936-37	478	455	1105	<u>661</u>	1338	2764	4438	4322	3536	1214	701	610	1801
1937-38	859	3575	3581	3858	2130	3092	3859	3214	1672	858	629	577	2326
1938-39	604	1483	2481	1898	2008	3103	3134	2146	1362	802	561	520	1673
1939-40	596	511	2107	1717	4281	3253	2084	1394	721	<u>547</u>	461	502	1506
1940-41	642	1926	1985	2428	1455	1225	1180	2010	1150	689	547	794	1336
1941-42	874	2130	4385	1913	2563	1720	1754	1888	1704	929	620	513	1745
1942-43	511	5225	5721	3564	3731	2794	<u>4755</u>	2702	2676	1517	911	717	2890
1943-44	1323	1842	1755	1536	1695	1644	2100	1815	1236	720	551	549	1395
1944-45	509	1025	955	2462	4287	2319	3042	3948	1381	735	553	548	1797
1945-46	491	2540	4545	4174	2156	2822	2846	3333	2316	1245	728	646	2324
1946-47	1294	3920	5650	2593	2934	2650	2605	1550	1605	946	676	632	2250
1947-48	2920	3288	1939	4550	3269	2130	3013	3914	2884	1183	828	812	2558
1948-49	1208	2417	3227	1057	3096	3149	4295	<u>5694</u>	2425	1179	800	718	2433
1949-50	1055	2041	2096	2583	4140	4202	3590	3958	4208	1715	922	787	2595
1950-51	2675	5016	4351	3829	4390	2055	3224	2819	1514	933	721	652	2668
1951-52	2228	2414	3231	1541	3565	2295	4117	3632	2190	1360	805	691	2332
1952-53	577	582	1398	6309	<u>5826</u>	956	1276	1780	2526	1403	841	971	2014
1953-54	2045	2711	7089	3307	2430	1694	2031	2434	2584	1347	1072	2163	2579
1954-55	2694	3406	1622	2159	1044	1392	2441	1361	4130	<u>1824</u>	1020	1660	2062
1955-56	3624	4920	6393	<u>7659</u>	1107	1091	2423	3723	2596	1379	1127	1950	3179
1956-57	2723	3776	3979	1584	870	2865	2192	2438	1231	977	833	1754	2110
1957-58	2646	2465	3274	4701	3877	1063	2413	1798	1632	1301	1028	1605	2307
1958-59	2238	5683	3477	3291	1961	837	1654	2461	1623	1024	946	2194	2280
1959-60	<u>3738</u>	3337	1737	1032	1356	1771	3538	3653	1912	1168	1172	1732	2178
1960-61	2152	3668	5029	2437	4797	3067	1465	2575	1955	1186	1205	1426	2567
1961-62	2511	3383	4381	3151	955	963	2658	3103	1621	1134	1170	1506	2221
1962-63	3237	3741	4646	1231	1357	1021	2248	2526	1177	1165	1230	1497	2095
1963-64	2354	4642	2293	2752	1717	927	970	2813	2876	1375	1200	1643	2128
1964-65	2161	2721	7455	6101	4474	919	915	1880	1273	929	1045	1777	2633
1965-66	2183	3383	1429	3039	980	1190	2770	2840	1028	925	968	1445	1852
1966-67	2100	4587	3399	2702	2022	1011	929	1355	1410	1119	1161	1433	1933
1967-68	2208	4352	2255	3107	2615	2003	1163	995	1157	1005	1280	1738	1985
1968-69	3669	5876	4226	4022	1253	934	898	3884	2589	1238	<u>1702</u>	2204	2718
1969-70	2076	2595	2894	3186	5691	1120	1194	1848	1370	1210	1484	1817	2184
1970-71	2040	3211	3608	4005	2815	2174	2316	3808	3094	1343	1580	1902	2657
1971-72	2827	3421	5073	3403	3264	<u>6698</u>	2260	3688	2561	1439	1620	2368	3224
1972-73	2025	2762	3731	3519	939	930	687	<u>614</u>	<u>658</u>	972	1083	1466	1623
1973-74	2008	5661	5486	6937	2353	2265	2913	3253	3998	1663	1514	2232	<u>3361</u>
1974-75	2565	2247	3356	5291	2118	1977	1479	2765	1820	1505	1482	1743	2370
1975-76	2720	4198	5558	4586	1271	1362	1578	2949	1535	1550	1543	1858	2569
1976-77	2090	2213	<u>918</u>	862	<u>643</u>	<u>421</u>	<u>361</u>	819	1353	1065	1359	1882	<u>1167</u>
1977-78	2361	3789	<u>8871</u>	3969	1246	972	747	869	1014	836	884	2064	2315
1978-79	2097	2153	3275	1447	1259	2397	1699	2736	1118	1042	1024	1888	1851
1979-80	2375	2376	2702	4223	922	861	1417	1278	1253	979	1209	2147	1817
1980-81	1827	2538	4195	2836	1277	898	1062	1603	2479	987	1192	2209	1929
1981-82	2514	2970	5572	2752	4665	2281	1495	2537	1990	1202	1137	2088	2588
1982-83	2542	3718	4844	4365	2703	2236	1997	2237	1571	1561	1068	2434	2607
1983-84	2395	3563	3955	3395	1763	2376	1513	2966	2984	1224	1048	<u>2488</u>	2475
1984-85	2558	<u>5893</u>	2589	1207	945	947	1489	2599	2347	1059	1034	2128	2066
1985-86	2819	3805	1795	3437	3167	3622	993	1644	1267	1025	978	1744	2186
1986-87	2364	3911	3322	1808	2079	1341	935	994	919	907	975	1649	1764
1987-88	1850	1758	3616	2282	1435	996	2571	2611	2020	1009	976	1676	1901
1988-89	2388	4227	2916	2555	2140	1007	2461	1991	1494	957	953	1999	2085
MEAN	1857	3000	3469	3043	2368	2051	2242	2553	1962	1114	960	1349	2165
MEDIAN	2097	3172	3322	2752	2022	2003	2192	2575	1672	1062	972	1502	2178

BCL3H

USGS # 14180700

BIG CLIFF

River: N. SANTIAM

Drainage Area:

453 Sq. Mi.

Monthly mean storage change, at site, during initial fill, in cfs

River Mile:

58.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	0
1928-29	0	0	0	0	0	0	0	0	0				0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54		39											3
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62													0
1962-63													0
1963-64													0
1964-65													0
1965-66													0
1966-67													0
1967-68													0
1968-69													0
1969-70													0
1970-71													0
1971-72													0
1972-73													0
1973-74													0
1974-75													0
1975-76													0
1976-77													0
1977-78													0
1978-79													0
1979-80													0
1980-81													0
1981-82													0
1982-83													0
1983-84													0
1984-85													0
1985-86													0
1986-87													0
1987-88													0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0

BCL3F

USGS # 14180700

BIG CLIFF

River: N. SANTIAM

Drainage Area:

453 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile:

58.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	1820	-804	1349	1207	1470	84	-23	15	-276	415
1953-54	-1138	489	-1390	78	1892	808	1546	160	54	28	-210	-1252	73
1954-55	-1431	-1775	381	-364	913	348	422	2726	269	-23	-162	-914	29
1955-56	-1474	-7	618	-2503	534	1392	1876	767	239	-36	-294	-1143	-8
1956-57	-1511	-1943	46	-373	2388	1667	965	81	220	-116	-192	-1153	-8
1957-58	-1862	-1124	1153	-589	1190	747	1114	762	86	-345	-322	-920	-17
1958-59	-1416	-1471	-112	1187	391	1716	1207	76	49	-148	-284	-1008	16
1959-60	-1787	-1469	-130	239	2081	1973	319	49	261	-213	-433	-1082	-22
1960-61	-1290	755	-2531	294	2161	948	1286	402	-277	-307	-517	-672	1
1961-62	-1343	-1094	-252	-366	1271	1442	1866	-103	151	-185	-442	-825	-1
1962-63	-1468	-71	-1561	23	2948	874	821	517	28	-242	-586	-838	14
1963-64	-1551	-1277	-288	438	453	1077	1716	474	337	-85	-394	-954	-6
1964-65	-1508	-672	2424	-257	-1549	887	1837	210	110	-100	-346	-1164	2
1965-66	-1469	-1766	-29	49	418	2242	1269	151	455	-36	-366	-889	2
1966-67	-1300	-1951	-63	1335	270	888	555	1322	377	-315	-602	-921	-31
1967-68	-291	-2627	293	-249	3342	303	469	772	104	-259	-337	-785	52
1968-69	-1654	-1570	-364	-530	169	1452	2973	800	111	-8	-857	-1370	-74
1969-70	-1013	-1368	-19	3778	-2066	1394	729	563	8	-427	-884	-1171	-19
1970-71	-1197	-84	-1082	1493	598	769	977	928	-70	179	-735	-862	74
1971-72	-1781	-52	-1695	1431	1888	291	979	593	69	-23	-607	-1372	-33
1972-73	-1195	-1249	317	-371	580	888	1128	903	360	-275	-548	-713	-18
1973-74	-1090	-721	952	-763	729	1372	753	634	371	33	-506	-1430	25
1974-75	-1851	-975	757	122	1295	1094	460	597	476	-237	-694	-1006	-5
1975-76	-1280	-1408	33	26	1213	731	1501	751	451	-297	-643	-1113	-8
1976-77	-1394	-1378	-218	-137	103	1334	2094	1535	100	-425	-758	-1101	-21
1977-78	-1383	950	-1238	-719	1302	517	1031	1144	194	-27	-154	-1081	32
1978-79	-1470	-1128	-480	-86	2680	1065	1253	85	-24	-320	-426	-1210	-24
1979-80	-1467	-948	-157	184	1509	1255	1420	263	9	-196	-648	-1604	-37
1980-81	-1324	-789	1683	-1414	2466	660	1331	83	9	-134	-616	-1548	17
1981-82	-1350	-1031	672	-178	2332	407	1220	310	120	-93	-406	-1335	40
1982-83	-1001	-1587	-123	126	1942	1792	576	118	49	-7	-132	-1659	-1
1983-84	-1732	-476	-519	431	1505	1274	1062	414	-157	24	-239	-1755	-19
1984-85	-1250	-976	-413	119	689	1077	2530	259	48	-142	-340	-1312	18
1985-86	-1382	-1507	52	297	3489	-182	853	472	-71	-272	-391	-892	15
1986-87	-1555	-28	-1415	491	1275	1276	1076	569	8	-173	-388	-1091	-7
1987-88	-1355	-1068	-545	629	1199	1904	865	98	1	-139	-345	-1048	14
1988-89	-1771	-640	-708	299	-397	2980	1440	295	13	-101	-244	-1354	-11
MEAN	-1398	-945	-165	162	1146	1135	1209	574	125	-148	-433	-1103	13

BCL3SS

USGS # 14180550

DETROIT

River: N. SANTIAM

Drainage Area: 438 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 60.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										830	575	525	
1928-29	670	1410	1730	1690	1120	2540	3160	3640	2320	985	580	465	1696
1929-30	<u>460</u>	<u>415</u>	2630	1110	4640	1980	1630	1690	1260	655	475	455	1428
1930-31	560	1020	1110	1640	1260	3480	3620	1450	1110	695	<u>445</u>	<u>425</u>	1401
1931-32	720	1640	2030	2610	1690	5700	3820	3920	2635	1118	688	572	2266
1932-33	668	3193	2231	2424	1438	2553	3337	3821	<u>5176</u>	1719	851	884	2357
1933-34	972	1197	5674	4413	1585	2551	2121	<u>1300</u>	844	631	537	495	1870
1934-35	1051	3172	3538	1980	2478	2056	2737	2954	1847	927	600	527	1982
1935-36	609	924	1224	4782	1883	2443	3169	3203	1730	874	607	563	1837
1936-37	478	455	1105	<u>661</u>	1338	2764	4438	4322	3536	1214	701	610	1801
1937-38	859	3575	3581	3858	2130	3092	3859	3214	1672	858	629	577	2326
1938-39	604	1483	2481	1898	2008	3103	3134	2146	1362	802	581	520	1673
1939-40	596	511	2107	1717	4281	3253	2084	1394	<u>721</u>	<u>547</u>	461	502	1506
1940-41	642	1926	1985	2428	1455	<u>1225</u>	<u>1180</u>	2010	1150	689	547	794	1336
1941-42	874	2130	4385	1913	2563	1720	1754	1888	1704	929	620	513	1745
1942-43	511	<u>5225</u>	5721	3564	3731	2794	<u>4755</u>	2702	2676	1517	911	717	2890
1943-44	1323	1842	1755	1536	1895	1644	2100	1815	1236	720	551	549	1395
1944-45	509	1025	955	2462	4287	2319	3042	3948	1381	735	553	548	1797
1945-46	491	2540	4545	4174	2156	2822	2846	3333	2316	1245	728	646	2324
1946-47	1294	3920	5650	2593	2934	2650	2605	1550	1605	946	676	632	2250
1947-48	<u>2920</u>	3288	1939	4550	3269	2130	3013	3914	2884	1183	828	812	2558
1948-49	1208	2417	3227	1057	3096	3149	4295	<u>5694</u>	2425	1179	800	718	2433
1949-50	1055	2041	2096	2583	4140	4202	3590	3958	4208	1715	922	787	2595
1950-51	2675	5016	4351	3829	4390	2055	3224	2819	1514	933	721	652	2668
1951-52	2228	2414	3231	1541	3565	2295	4117	3632	2190	1360	805	691	2332
1952-53	577	582	1398	<u>8129</u>	5022	2305	2483	3250	2610	1380	856	695	2429
1953-54	907	3200	5699	3385	4322	2502	3577	2594	2638	1375	862	911	2652
1954-55	1263	1631	1983	1795	1957	1740	2863	4087	4399	<u>1801</u>	858	746	2091
1955-56	2150	4913	7011	5156	1641	2483	4299	4490	2835	1343	833	807	3171
1956-57	1212	1833	4025	1211	3258	4532	3157	2519	1451	861	641	601	2103
1957-58	784	1341	4427	4112	5067	1810	3527	2560	1718	956	706	685	2291
1958-59	822	4212	3365	4478	2352	2553	2861	2537	1672	876	662	<u>1186</u>	2295
1959-60	1951	1868	1607	1271	3437	3744	3857	3702	2173	955	739	650	2156
1960-61	862	4423	2498	2731	6958	4015	2751	2977	1678	879	688	754	2567
1961-62	1168	2289	4129	2785	2228	2405	4524	3000	1772	949	728	681	2220
1962-63	1769	3670	3085	1254	4305	1895	3069	3043	1205	923	644	659	2108
1963-64	803	3365	2005	3190	2170	2004	2886	3287	3213	1290	806	689	2122
1964-65	653	2049	<u>9879</u>	5844	2925	1806	2752	2090	1383	829	699	613	2635
1965-66	714	1617	1400	3088	1398	3432	4039	2991	1483	889	602	556	1854
1966-67	800	2636	3336	4037	2292	1899	1484	2677	1787	804	559	512	1902
1967-68	1917	1725	2548	2858	5957	2306	1632	1767	1261	746	943	953	2037
1968-69	2015	4306	3862	3492	1422	2386	3871	4684	2700	1230	845	834	2644
1969-70	1063	1227	2875	6964	3625	2514	1923	2411	1378	783	600	646	2165
1970-71	843	3127	2546	5498	3413	2943	3293	4736	3024	1522	845	1040	2731
1971-72	1046	3369	3378	4834	5152	<u>6989</u>	3239	4281	2630	1416	<u>1013</u>	996	3192
1972-73	830	1513	4048	3148	1519	1818	1815	1517	1018	697	535	753	1605
1973-74	918	4940	6438	6174	3082	3637	3666	3887	4369	1696	1008	802	<u>3387</u>
1974-75	714	1272	4113	5413	3413	3071	1939	3362	2296	1268	788	737	2366
1975-76	1440	2790	5591	4612	2484	2093	3079	3700	1986	1253	900	745	2561
1976-77	696	835	<u>700</u>	725	<u>746</u>	1755	2455	2354	1453	640	601	781	<u>1146</u>
1977-78	978	4739	7633	3250	2548	1489	1778	2013	1208	809	730	983	2347
1978-79	627	1027	2795	1361	3938	3462	2952	2822	1094	722	598	678	1827
1979-80	908	1428	2545	4407	2431	2116	2836	1541	1262	783	561	543	1779
1980-81	504	1749	5877	1422	3743	1559	2392	1686	2487	853	576	660	1946
1981-82	1165	1939	6244	2574	<u>6997</u>	2688	2715	2847	2110	1109	731	752	2629
1982-83	1541	2131	4722	4491	4645	4028	2573	2355	1620	1554	936	775	2607
1983-84	663	3087	3435	3826	3268	3649	2575	3380	2827	1247	810	734	2456
1984-85	1308	4917	2175	1326	1635	2025	4019	2858	2395	917	695	816	2084
1985-86	1438	2298	1847	3734	6655	3440	1846	2116	1196	753	588	851	2201
1986-87	809	3883	1908	2298	3354	2618	2011	1563	927	734	587	558	1757
1987-88	495	690	3070	2912	2634	2900	3436	2710	2020	870	631	628	1915
1988-89	617	3587	2208	2854	1744	3987	3901	2285	1506	856	708	645	2074
MEAN	1032	2442	3372	3142	3063	2739	2975	2902	2037	1025	701	691	2172
MEDIAN	859	2130	3070	2858	2925	2540	3013	2847	1730	925	691	679	2165

DET3A

USGS # 14180700

BIG CLIFF

River: N. SANTIAM

Drainage Area: 453 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cubic feet per second

River Mile: 58.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										830	575	525	
1928-29	670	1410	1730	1690	1120	2540	3160	3640	2320	985	580	465	1696
1929-30	<u>460</u>	<u>415</u>	2630	1110	4640	1960	1630	1690	1260	655	475	455	1428
1930-31	560	1020	1110	1640	1260	3480	3620	1450	1110	695	<u>445</u>	<u>425</u>	1401
1931-32	720	1640	2030	2610	1690	5700	3820	3920	2635	1118	688	572	2266
1932-33	668	3193	2231	2424	1438	2553	3337	3821	<u>5176</u>	1719	851	884	2357
1933-34	972	1197	5674	4413	1585	2551	2121	<u>1300</u>	844	631	537	495	1870
1934-35	1051	3172	3538	1960	2478	2056	2737	2954	1847	927	600	527	1982
1935-36	609	924	1224	4782	1883	2443	3169	3203	1730	874	607	563	1837
1936-37	478	455	1105	<u>661</u>	1338	2764	4438	4322	3536	1214	701	610	1801
1937-38	859	3575	3581	3858	2130	3092	3859	3214	1672	858	629	577	2326
1938-39	604	1483	2481	1898	2008	3103	3134	2146	1362	802	561	520	1673
1939-40	596	511	2107	1717	4281	3253	2084	1394	<u>721</u>	<u>547</u>	461	502	1506
1940-41	642	1926	1985	2428	1455	<u>1225</u>	<u>1180</u>	2010	1150	689	547	794	1336
1941-42	874	2130	4385	1913	2563	1720	1754	1888	1704	929	620	513	1745
1942-43	511	<u>5225</u>	5721	3564	3731	2794	<u>4755</u>	2702	2676	1517	911	717	2890
1943-44	1323	1842	1755	1536	1695	1644	2100	1815	1236	720	551	549	1395
1944-45	509	1025	955	2462	4287	2319	3042	3948	1381	735	553	548	1797
1945-46	491	2540	4545	4174	2156	2822	2846	3333	2316	1245	728	646	2324
1946-47	1294	3920	5650	2593	2934	2650	2605	1550	1605	946	676	632	2250
1947-48	<u>2920</u>	3288	1939	4550	3269	2130	3013	3914	2884	1183	828	812	2558
1948-49	1208	2417	3227	1057	3096	3149	4295	<u>5694</u>	2425	1179	800	718	2433
1949-50	1055	2041	2096	2583	4140	4202	3590	3958	4208	1715	922	787	2595
1950-51	2675	5016	4351	3829	4390	2055	3224	2819	1514	933	721	652	2668
1951-52	2228	2414	3231	1541	3565	2295	4117	3632	2190	1360	805	691	2332
1952-53	577	582	1398	<u>8129</u>	5022	2305	2483	3250	2610	1380	856	695	2429
1953-54	907	3200	5699	3385	4322	2502	3577	2594	2638	1375	862	911	2652
1954-55	1263	1631	1983	1795	1957	1740	2863	4087	4399	<u>1801</u>	858	746	2091
1955-56	2150	4913	7011	5156	1641	2483	4299	4490	2835	1343	833	807	3171
1956-57	1212	1833	4025	1211	3258	4532	3157	2519	1451	861	641	601	2103
1957-58	784	1341	4427	4112	5067	1810	3527	2560	1718	956	706	685	2291
1958-59	822	4212	3365	4478	2352	2553	2861	2537	1672	876	662	<u>1186</u>	2295
1959-60	1951	1868	1607	1271	3437	3744	3857	3702	2173	955	739	650	2156
1960-61	862	4423	2498	2731	6958	4015	2751	2977	1678	879	688	754	2567
1961-62	1168	2289	4129	2785	2226	2405	4524	3000	1772	949	728	681	2220
1962-63	1769	3670	3085	1254	4305	1895	3069	3043	1205	923	644	659	2108
1963-64	803	3365	2005	3190	2170	2004	2686	3287	3213	1290	806	689	2122
1964-65	653	2049	<u>9879</u>	5844	2925	1806	2752	2090	1383	829	699	613	2635
1965-66	714	1617	1400	3088	1398	3432	4039	2991	1483	889	602	556	1854
1966-67	800	2636	3336	4037	2292	1899	1484	2677	1787	804	559	512	1902
1967-68	1917	1725	2548	2858	5957	2306	1632	1767	1261	746	943	953	2037
1968-69	2015	4306	3862	3492	1422	2386	3871	4684	2700	1230	845	834	2644
1969-70	1063	1227	2875	6964	3625	2514	1923	2411	1378	783	600	646	2165
1970-71	843	3127	2546	5498	3413	2943	3293	4736	3024	1522	845	1040	2731
1971-72	1046	3369	3378	4834	5152	<u>6989</u>	3239	4281	2630	1416	<u>1013</u>	996	3192
1972-73	830	1513	4048	3148	1519	1818	1815	1517	1018	697	535	753	1605
1973-74	918	4940	6438	6174	3082	3637	3666	3887	4369	1696	1008	802	<u>3387</u>
1974-75	714	1272	4113	5413	3413	3071	1939	3362	2296	1268	788	737	2366
1975-76	1440	2790	5591	4612	2484	2093	3079	3700	1986	1253	900	745	2561
1976-77	696	835	<u>700</u>	725	<u>746</u>	1755	2455	2354	1453	640	601	781	<u>1146</u>
1977-78	978	4739	7633	3250	2548	1489	1778	2013	1208	809	730	983	2347
1978-79	627	1027	2795	1361	3938	3462	2952	2822	1094	722	598	678	1827
1979-80	908	1428	2545	4407	2431	2116	2836	1541	1262	783	561	543	1779
1980-81	504	1749	5877	1422	3743	1559	2392	1686	2487	853	576	660	1946
1981-82	1165	1939	6244	2574	<u>6997</u>	2688	2715	2847	2110	1109	731	752	2629
1982-83	1541	2131	4722	4491	4645	4028	2573	2355	1620	1554	936	775	2607
1983-84	663	3087	3435	3826	3268	3649	2575	3380	2827	1247	810	734	2456
1984-85	1308	4917	2175	1326	1635	2025	4019	2858	2395	917	695	816	2084
1985-86	1438	2298	1847	3734	6655	3440	1846	2116	1196	753	588	851	2201
1986-87	809	3883	1908	2298	3354	2618	2011	1563	927	734	587	558	1757
1987-88	495	690	3070	2912	2634	2900	3436	2710	2020	870	631	628	1915
1988-89	617	3587	2208	2854	1744	3987	3901	2285	1506	856	708	645	2074
MEAN	1032	2442	3372	3142	3063	2739	2975	2902	2037	1025	701	691	2172
MEDIAN	859	2130	3070	2858	2925	2540	3013	2847	1730	925	691	679	2165

BCL3A

USGS # 14186200

GREEN PETER

River: M. SANTIAM

Drainage Area:

277 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

5.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										175	90	95	
1928-29	245	875	1370	1570	1000	2740	2740	1980	1120	250	125	85	1176
1929-30	90	70	2430	830	3910	1350	860	1120	690	185	100	95	959
1930-31	215	900	740	1420	710	2690	2840	470	445	190	96	95	901
1931-32	425	1600	2030	2566	1477	<u>5998</u>	2708	2056	1037	274	125	87	1704
1932-33	302	2688	2396	2298	1528	2617	2629	<u>3059</u>	<u>3530</u>	614	170	387	1849
1933-34	516	812	5642	4104	780	1936	1231	617	278	141	90	<u>83</u>	1365
1934-35	975	3405	3280	2073	2270	1814	2163	1424	532	227	101	88	1523
1935-36	244	689	1059	5351	1814	1959	2086	1733	717	269	122	122	1349
1936-37	<u>74</u>	<u>65</u>	1014	<u>491</u>	1830	2918	<u>4042</u>	2925	2200	451	187	136	1354
1937-38	567	3350	3134	3289	1996	3065	3187	1719	495	171	98	95	1762
1938-39	153	1424	2258	1683	2303	2962	1823	800	667	262	118	104	1206
1939-40	339	206	2082	1425	4041	2511	1229	745	<u>220</u>	<u>126</u>	<u>80</u>	118	1085
1940-41	315	1896	1649	2293	881	648	547	1154	638	261	155	581	919
1941-42	578	1813	3444	1789	2002	1307	918	1241	964	387	158	91	1221
1942-43	151	5397	5741	3207	3596	1986	3011	1205	1313	396	189	117	2178
1943-44	920	1246	1138	1075	1507	1363	1774	948	582	200	109	137	913
1944-45	132	745	<u>582</u>	2494	3723	2107	2656	2646	564	187	110	153	1325
1945-46	108	3024	4498	3371	2082	2674	1839	1383	781	337	131	128	1696
1946-47	944	3445	4722	2025	2667	2255	2401	487	1223	402	199	179	1737
1947-48	2950	3450	1800	4060	3200	1880	2380	2240	865	295	170	245	1957
1948-49	730	1980	4060	815	4060	2440	2330	2900	620	205	115	130	1684
1949-50	590	1370	1930	2840	4190	3950	2640	2300	1720	485	175	135	1846
1950-51	2590	4380	3260	4507	3498	1842	1998	1529	377	179	110	101	2022
1951-52	2317	2149	3202	1432	3466	2219	2609	1654	914	486	167	125	1722
1952-53	85	126	1385	<u>7270</u>	4745	2075	1882	2446	1388	370	235	151	1833
1953-54	449	3335	5515	3593	3605	1604	2560	850	1288	419	225	367	1972
1954-55	710	1151	2242	1919	2045	2068	2937	2899	2162	714	215	226	1604
1955-56	1752	4660	6628	4697	1290	2744	3254	2395	1210	338	164	112	2445
1956-57	833	1465	3946	910	3350	4015	2083	1117	560	226	157	101	1555
1957-58	372	1122	5222	3748	4095	1296	2937	893	740	287	138	155	1737
1958-59	252	3986	2850	3970	2069	2260	2105	1953	806	291	142	749	1782
1959-60	1784	1507	1119	1169	3184	3467	3084	3017	893	242	183	149	1644
1960-61	437	4514	1930	2049	<u>6405</u>	3727	1784	1769	494	185	111	210	1934
1961-62	757	2378	4336	1934	1623	2586	3427	1922	697	228	198	209	1692
1962-63	1294	2928	2465	758	3440	1518	2625	2421	510	420	181	230	1550
1963-64	393	3466	1642	3607	1971	2203	2223	2077	1685	413	216	169	1668
1964-65	179	2076	<u>9077</u>	5893	2091	1039	1520	991	365	177	139	96	1980
1965-66	186	1134	1066	3575	1392	3095	2544	1224	418	226	106	102	1257
1966-67	378	2412	2783	3343	2264	661	230	199	313	354	399	411	1140
1967-68	227	2383	2307	2419	1765	997	132	429	653	508	704	<u>2264</u>	1228
1968-69	<u>3893</u>	3687	3135	3717	514	172	1383	2141	1410	702	<u>1139</u>	1533	1963
1969-70	1026	2167	2474	3122	3882	456	472	1479	531	636	1111	1357	1545
1970-71	1171	2790	3228	3987	2513	2297	1832	1946	1363	509	902	1894	2033
1971-72	1651	2640	5351	3903	3636	5672	1866	1668	744	381	953	1543	2503
1972-73	788	1838	2959	3109	<u>327</u>	<u>66</u>	252	333	504	766	974	708	1060
1973-74	1914	4834	6031	5323	2302	2496	2429	1687	1768	444	473	1164	<u>2575</u>
1974-75	1751	1667	4082	5044	1493	1979	660	1879	608	483	534	1895	1849
1975-76	1952	3272	5342	5101	534	890	1785	1419	779	355	634	1260	1953
1976-77	1309	1398	947	492	376	72	<u>21</u>	1432	859	766	785	933	<u>786</u>
1977-78	1815	3986	8127	3465	844	411	307	<u>168</u>	373	530	652	1606	1868
1978-79	1413	1585	3514	1347	1582	1639	1394	1315	463	613	609	791	1357
1979-80	1168	2122	2842	3599	521	202	975	614	563	603	774	874	1243
1980-81	1050	2403	4463	2058	497	345	1367	1224	1670	568	702	1106	1460
1981-82	1922	2416	6163	2920	4226	1763	1061	993	536	529	651	1123	2015
1982-83	1645	2950	5385	3627	2290	1431	1500	740	719	<u>808</u>	580	1189	1906
1983-84	1372	3119	4472	2601	1624	2066	1257	2028	2225	522	580	1186	1921
1984-85	1922	<u>5639</u>	3001	1133	546	328	1246	1023	1112	547	616	1035	1512
1985-86	2002	3557	2279	2495	2622	2542	381	895	445	640	603	935	1611
1986-87	1429	3658	3074	1664	1238	746	306	738	528	556	693	622	1271
1987-88	801	618	3098	2057	1072	283	1663	1537	1326	729	568	879	1221
1988-89	1004	4203	2599	2997	1583	1474	1532	731	538	449	436	1201	1559
MEAN	976	2396	3288	2814	2264	1966	1830	1491	914	398	351	552	1601
MEDIAN	788	2378	3001	2601	2045	1979	1839	1424	717	384	185	210	1644

GPR3H

USGS # 14186200

GREEN PETER

River: M. SANTIAM

Drainage Area:

277 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

5.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	20	3	90	421	-499	748	892	1264	277	-211	-337	-328	201
1967-68	1264	-1034	132	-80	2373	420	886	558	-61	-296	-200	-1632	189
1968-69	-2287	-282	587	-420	691	2013	1518	389	-15	-138	-945	-1319	-23
1969-70	-343	-1307	47	2786	-1316	1217	896	234	-141	-496	-1000	-1129	-32
1970-71	-600	220	-701	1324	339	740	760	657	49	-80	-714	-1287	58
1971-72	-1002	768	-1810	1379	1493	76	585	683	13	-158	-851	-1353	-23
1972-73	-639	-859	595	-439	641	1430	1086	368	-15	-530	-914	-304	31
1973-74	-1304	408	330	-524	924	1208	432	485	103	-52	-324	-1040	48
1974-75	-1609	-667	188	190	1549	671	822	376	141	-177	-298	-1674	-50
1975-76	-572	-660	-442	-307	1784	889	902	451	41	-89	-401	-1122	31
1976-77	-1155	-946	-584	-29	163	1863	1834	569	-40	-552	-560	-465	6
1977-78	-1044	603	-1246	-710	1140	432	1037	1269	214	-266	-343	-948	0
1978-79	-1132	-652	-550	-128	2166	931	823	260	-136	-448	-494	-623	-15
1979-80	-661	-877	-734	90	1233	1421	1059	156	180	-322	-623	-722	11
1980-81	-912	-796	659	-1073	2433	814	717	10	42	-201	-550	-885	4
1981-82	-1078	-798	146	69	1639	303	1045	317	107	-265	-510	-867	-3
1982-83	-369	-990	-997	171	1567	1638	198	527	-53	-12	-295	-988	26
1983-84	-1174	-267	-1064	266	1382	1017	728	465	-37	-81	-381	-992	-18
1984-85	-907	-870	-799	54	987	1270	1502	317	10	-335	-487	-775	-10
1985-86	-812	-1196	-462	197	3429	-477	714	511	-94	-432	-497	-395	16
1986-87	-1011	38	-1665	409	1249	1202	731	-159	-226	-298	-560	-533	-80
1987-88	-716	-304	-593	829	826	1744	523	180	-95	-479	-450	-723	60
1988-89	-859	-472	-981	202	193	2272	974	366	-47	-244	-204	-1036	14
MEAN	-822	-475	-428	203	1146	1037	898	446	10	-268	-519	-919	19

GPR3S

USGS # 14186200

GREEN PETER

River: M. SANTIAM

Drainage Area:

277 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

5.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										175	90	95	
1928-29	245	875	1370	1570	1000	2740	2740	1980	1120	250	125	85	1176
1929-30	90	70	2430	830	3910	1350	860	1120	690	185	100	95	959
1930-31	215	900	740	1420	710	2690	2840	<u>470</u>	445	190	96	95	901
1931-32	425	1600	2030	2566	1477	<u>5998</u>	2708	2056	1037	274	125	87	1704
1932-33	302	2688	2396	2298	1528	2617	2629	<u>3059</u>	<u>3530</u>	614	170	387	1849
1933-34	516	812	5642	4104	780	1936	1231	617	278	141	90	83	1365
1934-35	975	3405	3280	2073	2270	1814	2163	1424	532	227	101	88	1523
1935-36	244	689	1059	5351	1814	1959	2086	1733	717	269	122	122	1349
1936-37	<u>74</u>	<u>65</u>	1014	491	1830	2918	<u>4042</u>	2925	2200	451	187	136	1354
1937-38	567	3350	3134	3289	1996	3065	3187	1719	495	171	98	95	1762
1938-39	153	1424	2258	1683	2303	2962	1823	800	667	262	118	104	1206
1939-40	339	206	2082	1425	4041	2511	1229	745	<u>220</u>	<u>126</u>	80	118	1085
1940-41	315	1896	1649	2293	881	<u>648</u>	<u>547</u>	1154	638	261	155	581	919
1941-42	578	1813	3444	1789	2002	1307	918	1241	964	387	158	91	1221
1942-43	151	<u>5397</u>	5741	3207	3596	1986	3011	1205	1313	396	189	117	2178
1943-44	920	1246	1138	1075	1507	1363	1774	948	582	200	109	137	913
1944-45	132	745	582	2494	3723	2107	2656	2646	564	187	110	153	1325
1945-46	108	3024	4498	3371	2082	2674	1839	1383	781	337	131	128	1696
1946-47	944	3445	4722	2025	2667	2255	2401	487	1223	402	199	179	1737
1947-48	<u>2950</u>	3450	1800	4060	3200	1880	2380	2240	865	295	170	245	1957
1948-49	730	1980	4060	815	4060	2440	2330	2900	620	205	115	130	1684
1949-50	590	1370	1930	2840	4190	3950	2640	2300	1720	485	175	135	1846
1950-51	2590	4380	3260	4507	3498	1842	1998	1529	377	179	110	101	2022
1951-52	2317	2149	3202	1432	3466	2219	2609	1654	914	486	167	125	1722
1952-53	85	126	1385	<u>7270</u>	4745	2075	1882	2446	1388	370	235	151	1833
1953-54	449	3335	5515	3593	3605	1604	2560	850	1288	419	225	367	1972
1954-55	710	1151	2242	1919	2045	2068	2937	2899	2162	714	215	226	1604
1955-56	1752	4660	6628	4697	1290	2744	3254	2395	1210	338	164	112	2445
1956-57	833	1465	3946	910	3350	4015	2083	1117	560	226	157	101	1555
1957-58	372	1122	5222	3748	4095	1296	2937	893	740	287	138	155	1737
1958-59	252	3986	2850	3970	2069	2260	2105	1953	806	291	142	<u>749</u>	1782
1959-60	1784	1507	1119	1189	3184	3467	3084	3017	893	242	183	149	1644
1960-61	437	4514	1930	2049	<u>6405</u>	3727	1784	1769	494	185	111	210	1934
1961-62	757	2378	4336	1934	1623	2586	3427	1922	697	228	198	209	1692
1962-63	1294	2928	2465	758	3440	1518	2625	2421	510	420	181	230	1550
1963-64	393	3466	1642	3607	1971	2203	2223	2077	1685	413	216	169	1668
1964-65	179	2076	<u>9077</u>	5893	2091	1039	1520	991	365	177	139	96	1980
1965-66	186	1134	1066	3575	1392	3095	2544	1224	418	226	106	102	1257
1966-67	398	2415	2873	3764	1765	1409	1122	1463	590	143	62	<u>83</u>	1340
1967-68	1491	1349	2439	2339	4138	1417	1018	987	592	212	<u>504</u>	632	1417
1968-69	1606	3405	3722	3297	1205	2185	2901	2530	1395	564	194	214	1940
1969-70	683	860	2521	5908	2566	1673	1368	1713	390	140	111	228	1513
1970-71	571	3010	2527	5311	2852	3037	2592	2603	1412	429	188	607	2091
1971-72	649	3408	3541	5282	5129	5748	2451	2351	757	223	102	190	2480
1972-73	149	979	3554	2670	968	1496	1338	701	489	236	<u>60</u>	404	1091
1973-74	610	5242	6361	4799	3226	3704	2861	2172	1871	392	149	124	<u>2622</u>
1974-75	142	1000	4270	5234	3042	2650	1482	2255	749	308	236	221	1799
1975-76	1380	2612	4900	4794	2298	1779	2687	1870	820	266	233	138	1984
1976-77	154	452	<u>363</u>	<u>463</u>	<u>539</u>	1935	1855	2001	819	214	225	468	<u>792</u>
1977-78	771	4589	6881	2755	1984	843	1344	1437	587	264	309	658	1868
1978-79	281	933	2964	1219	3748	2570	2217	1575	327	164	115	168	1342
1979-80	507	1245	2108	3689	1754	1623	2034	770	743	282	150	152	1254
1980-81	138	1607	5121	985	2930	1158	2084	1234	1712	366	152	221	1465
1981-82	844	1618	6309	2989	5866	2067	2106	1309	643	265	141	256	2013
1982-83	1276	1959	4388	3798	3857	3069	1698	1267	666	<u>796</u>	285	201	1931
1983-84	198	2852	3408	2868	3006	3083	1985	2493	2188	441	179	194	1903
1984-85	1015	4769	2202	1187	1533	1598	2748	1340	1123	212	129	260	1502
1985-86	1189	2361	1817	2692	6051	2066	1095	1406	351	208	106	540	1627
1986-87	418	3696	1409	2073	2487	1948	1037	578	301	258	133	88	1191
1987-88	84	314	2505	2886	1898	2026	2186	1718	1231	249	117	156	1281
1988-89	145	3731	1617	3199	1776	3745	2507	1096	491	205	233	166	1573
MEAN	666	2217	3126	2890	2696	2357	2169	1659	917	299	158	211	1609
MEDIAN	449	1959	2527	2755	2303	2107	2186	1575	740	262	146	152	1644

GPR3A

USGS # 14186650

FOSTER

River: S. SANTIAM

Drainage Area:

493 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

37.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										290	150	155	
1928-29	385	1400	2200	2490	1590	4470	4500	3280	1960	410	210	140	1921
1929-30	140	100	3840	1320	6370	2200	1440	1910	1100	295	160	155	1556
1930-31	335	1420	1170	2260	1180	4400	4580	760	700	305	140	140	1449
1931-32	565	2580	3380	4260	2480	<u>9470</u>	4530	3500	1750	445	210	145	2784
1932-33	500	4400	4020	4020	2720	4320	4240	<u>5120</u>	<u>5500</u>	1030	275	635	3061
1933-34	675	1200	8100	6080	1250	3120	2120	1090	475	230	145	<u>135</u>	2070
1934-35	1520	5290	5260	3430	3680	3060	3580	2380	890	370	160	140	2470
1935-36	380	1080	1640	8400	3020	3220	3400	2890	1240	430	200	200	2178
1936-37	<u>120</u>	<u>100</u>	1500	720	3400	4900	<u>6740</u>	4660	3700	720	300	220	2243
1937-38	920	5530	5300	5340	3440	5130	5200	2940	870	280	165	150	2935
1938-39	240	2290	3600	2780	3860	4970	2930	1370	1180	430	195	175	1990
1939-40	500	320	3150	2300	6460	4180	2050	1230	<u>350</u>	<u>195</u>	<u>120</u>	190	1739
1940-41	460	2970	2740	3640	1410	1060	960	1900	1110	435	255	905	1488
1941-42	980	3130	5910	2980	3350	2160	1500	2170	1610	630	260	155	2064
1942-43	230	8550	9280	5400	5620	3100	4830	1960	2310	660	310	195	3515
1943-44	1390	2000	1750	1700	2430	2300	2920	1590	925	325	180	230	1473
1944-45	215	1100	<u>920</u>	3870	6120	3500	4490	4420	950	310	180	245	2167
1945-46	180	4800	6960	5580	3480	4460	2940	2280	1320	540	210	210	2745
1946-47	1480	5590	7530	3240	4000	3300	3810	830	1850	675	335	295	2733
1947-48	4420	5500	2850	6480	5170	3140	3950	3800	1660	500	280	400	3172
1948-49	1130	3250	6500	1300	6470	4170	3830	4700	1030	330	185	205	2735
1949-50	830	2180	3110	4680	6830	6290	4290	3830	3020	840	300	225	3011
1950-51	3980	7100	5270	7300	5590	3090	3090	2460	605	280	180	175	3247
1951-52	3480	3400	5300	2360	5520	3570	4080	2760	1580	880	265	195	2773
1952-53	130	185	2020	<u>10980</u>	7620	3430	3070	4045	2360	615	343	224	2896
1953-54	655	5120	8820	5900	5670	2520	3990	1345	2030	630	335	600	3116
1954-55	1110	1760	3350	3080	3140	3480	4740	4450	3420	1160	335	330	2524
1955-56	2540	7110	11130	7410	2285	4465	5095	3870	2100	580	265	185	3932
1956-57	1390	2290	6280	1425	5390	6340	3385	1910	910	365	240	160	2492
1957-58	550	1610	8366	5995	6660	2060	4510	1425	1255	475	215	230	2757
1958-59	365	6045	4370	6540	3470	3535	3235	3145	1270	425	205	1070	2800
1959-60	2730	2390	1605	1855	4990	5690	4895	4900	1415	380	270	225	2603
1960-61	610	6870	3070	3015	<u>10380</u>	5895	2830	2935	830	300	165	320	3046
1961-62	1205	3710	6685	3015	2560	4240	5320	3180	1135	355	305	305	2669
1962-63	1910	4155	3865	1170	5610	2540	4365	4115	915	745	300	350	2478
1963-64	564	5340	2505	5795	3025	3445	3515	3250	2810	685	325	255	2620
1964-65	263	3137	<u>14230</u>	9603	3210	1637	2371	1632	607	270	225	142	3127
1965-66	277	1729	1752	5919	2181	4987	3887	1938	711	386	175	172	2012
1966-67	578	3951	4122	5881	3454	1573	951	1058	635	445	454	441	1955
1967-68	1033	3174	3681	3915	4118	2048	<u>845</u>	778	987	623	1005	<u>2660</u>	2063
1968-69	<u>5051</u>	6010	5720	5783	1501	1445	2791	3525	2421	1112	<u>1249</u>	1738	3209
1969-70	1557	2829	4158	6562	5261	1293	1205	2496	761	725	1164	1499	2446
1970-71	1715	4362	4579	7687	4201	4217	3110	3339	2183	792	1010	2179	3277
1971-72	2515	5099	8025	7184	6379	9407	3269	3223	1257	516	1009	1671	<u>4131</u>
1972-73	1136	2422	4799	4537	799	<u>789</u>	1019	747	771	892	1018	838	1658
1973-74	2420	8099	9258	8183	3974	4755	4054	2890	2876	702	574	1237	4086
1974-75	2075	2362	6694	8148	3160	3563	1649	3057	1112	681	649	2020	2941
1975-76	2864	4929	8186	8136	1727	1999	3378	2240	1240	530	774	1364	3126
1976-77	1686	1729	1105	<u>678</u>	<u>520</u>	916	1182	2930	1361	893	877	1127	<u>1255</u>
1977-78	2461	6702	11890	5194	2109	969	1067	929	750	706	836	2010	2979
1978-79	1884	2228	5552	2161	4003	3122	3092	1973	668	708	674	871	2236
1979-80	1721	3011	4109	6000	1356	1283	2263	896	1171	804	862	962	2042
1980-81	1414	3364	7407	2655	2168	1171	2730	1728	2964	817	803	1221	2370
1981-82	2670	3647	10220	4709	7470	2974	2636	1406	934	729	741	1282	3264
1982-83	2766	4274	8225	6045	4710	3382	2876	1357	1224	<u>1379</u>	777	1319	3191
1983-84	1785	4894	6723	4430	3588	4003	2641	3593	3755	809	677	1319	3183
1984-85	2784	<u>8592</u>	4402	1855	1449	1105	3074	1462	1789	664	713	1196	2418
1985-86	2983	5131	3489	4068	6218	3832	999	1833	668	782	669	1276	2640
1986-87	1908	6226	3944	2927	2671	1856	1206	<u>702</u>	711	720	770	1082	2052
1987-88	853	799	4653	3916	2234	1705	3234	2347	2207	904	641	960	2039
1988-89	1372	6593	3604	5076	2610	3821	3336	1091	863	583	587	1299	2564
MEAN	1419	3724	5146	4580	3890	3427	3177	2485	1521	592	445	680	2586
MEDIAN	1136	3364	4402	4430	3470	3382	3234	2347	1224	599	300	313	2620

FOS3H

USGS # 14186650 **FOSTER**
 Monthly mean storage change, at site, in cfs.

River: S. SANTIAM

Drainage Area: 493 Sq. Mi.
 River Mile: 37.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	451	6	10	9	9	81	89	3	-14	26	56
1967-68	-146	-27	30	-14	163	-184	0	388	69	30	-23	-34	20
1968-69	-262	-128	-4	6	28	188	167	41	-19	-8	21	-76	-4
1969-70	-175	-171	11	20	84	123	146	29	3	-5	9	-14	5
1970-71	-274	-130	30	-1	-6	59	255	48	6	11	-6	13	0
1971-72	-395	-10	-2	73	64	36	252	-2	-13	3	11	-24	-1
1972-73	-246	-133	-16	27	48	203	115	18	5	2	-2	11	2
1973-74	-287	-136	2	1	183	73	119	56	7	-2	-20	-7	-2
1974-75	-232	-158	-5	-4	136	121	-80	246	-4	2	10	-10	1
1975-76	-263	-119	-22	4	112	39	3	249	-2	-4	13	-7	0
1976-77	-274	-136	0	-2	74	300	28	13	0	2	1	1	0
1977-78	-275	-139	2	11	32	21	128	214	-4	4	-4	15	0
1978-79	-293	-81	-28	-4	55	79	-14	281	-7	1	0	10	0
1979-80	-269	-125	-2	20	77	17	-12	289	1	1	-7	6	0
1980-81	-274	-103	-25	8	137	-90	-26	385	-3	4	2	13	2
1981-82	-297	-130	3	21	126	-3	-115	381	3	-5	6	1	-1
1982-83	-292	-120	8	-2	125	33	-142	387	2	2	-1	6	0
1983-84	-292	-117	4	13	106	121	14	149	4	-2	3	-7	-1
1984-85	-260	-130	1	-1	103	144	-240	388	-2	12	-14	6	1
1985-86	-289	-110	-13	16	154	4	237	13	5	-7	3	-19	-2
1986-87	-216	-173	11	22	112	103	-227	385	-1	-1	3	-405	-32
1987-88	-3	-4	4	-13	23	-13	9	394	-5	-4	2	16	34
1988-89	-285	-137	3	12	110	124	-230	387	0	-5	8	3	-1
MEAN	-254	-114	19	10	89	65	17	209	6	1	0	-21	3

FOSS3S

USGS # 14186650

FOSTER

River: S. SANTIAM

Drainage Area:

493 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile:

37.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	20	3	541	426	-489	757	901	1344	367	-208	-350	-302	257
1967-68	1118	-1061	161	-94	2536	236	885	946	8	-266	-223	-1666	210
1968-69	-2548	-411	583	-414	720	2201	1685	430	-34	-146	-923	-1395	-27
1969-70	-518	-1479	58	2806	-1233	1340	1042	263	-138	-501	-991	-1143	-27
1970-71	-874	90	-671	1323	333	799	1014	705	55	-69	-719	-1275	58
1971-72	-1397	758	-1812	1452	1557	112	837	681	1	-155	-839	-1377	-24
1972-73	-885	-992	579	-412	689	1632	1200	386	-10	-528	-916	-293	33
1973-74	-1591	272	332	-522	1107	1281	551	540	110	-54	-344	-1047	45
1974-75	-1841	-825	182	186	1685	792	742	622	137	-175	-288	-1683	-49
1975-76	-834	-779	-463	-304	1875	928	905	700	39	-93	-388	-1129	31
1976-77	-1429	-1082	-584	-31	238	2163	1862	582	-41	-550	-559	-464	6
1977-78	-1319	463	-1244	-699	1172	453	1165	1483	210	-262	-347	-933	0
1978-79	-1425	-733	-579	-131	2222	1010	809	541	-143	-447	-494	-613	-15
1979-80	-930	-1002	-736	110	1310	1438	1047	445	181	-321	-630	-716	11
1980-81	-1185	-899	633	-1065	2569	723	691	395	39	-198	-548	-872	6
1981-82	-1375	-927	149	90	1765	300	930	697	111	-270	-504	-865	-4
1982-83	-661	-1110	-990	169	1691	1671	57	913	-51	-11	-296	-982	26
1983-84	-1465	-385	-1060	279	1488	1138	741	614	-32	-83	-378	-999	-18
1984-85	-1167	-1000	-798	54	1090	1414	1262	705	8	-323	-501	-769	-10
1985-86	-1101	-1305	-474	213	3583	-472	951	524	-89	-439	-494	-414	14
1986-87	-1227	-135	-1654	431	1361	1305	503	225	-227	-298	-557	-938	-112
1987-88	-719	-307	-589	817	848	1731	533	574	-100	-483	-449	-707	94
1988-89	-1144	-609	-978	213	303	2396	745	753	-47	-249	-195	-1033	13
MEAN	-1065	-585	-409	213	1236	1102	916	655	15	-267	-519	-940	22

FOS3SS

USGS # 14186650

FOSTER

River: S. SANTIAM

Drainage Area:

493 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

37.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										290	150	155	
1928-29	385	1400	2200	2490	1590	4470	4500	3280	1960	410	210	140	1921
1929-30	140	100	3840	1320	6370	2200	1440	1910	1100	295	160	155	1556
1930-31	335	1420	1170	2260	1180	4400	4580	<u>760</u>	700	305	140	140	1449
1931-32	565	2580	3380	4260	2480	9470	4530	3500	1750	445	210	145	2784
1932-33	500	4400	4020	4020	2720	4320	4240	<u>5120</u>	<u>5500</u>	1030	275	635	3061
1933-34	675	1200	8100	6080	1250	3120	2120	1090	475	230	145	<u>135</u>	2070
1934-35	1520	5290	5260	3430	3680	3060	3580	2380	890	370	160	140	2470
1935-36	380	1080	1640	8400	3020	3220	3400	2890	1240	430	200	200	2178
1936-37	<u>120</u>	<u>100</u>	1500	720	3400	4900	<u>6740</u>	4660	3700	720	300	220	2243
1937-38	920	5530	5300	5340	3440	5130	5200	2940	870	280	165	150	2935
1938-39	240	2290	3600	2780	3860	4970	2930	1370	1180	430	195	175	1990
1939-40	500	320	3150	2300	6460	4180	2050	1230	<u>350</u>	<u>195</u>	120	190	1739
1940-41	460	2970	2740	3640	1410	<u>1060</u>	<u>960</u>	1900	1110	435	255	905	1488
1941-42	980	3130	5910	2980	3350	2160	1500	2170	1610	630	260	155	2064
1942-43	230	<u>8550</u>	9280	5400	5620	3100	4830	1960	2310	660	310	195	3515
1943-44	1390	2000	1750	1700	2430	2300	2920	1590	925	325	180	230	1473
1944-45	215	1100	920	3870	6120	3500	4490	4420	950	310	180	245	2167
1945-46	180	4800	6960	5580	3480	4460	2940	2280	1320	540	210	210	2745
1946-47	1480	5590	7530	3240	4000	3300	3810	830	1850	675	335	295	2733
1947-48	<u>4420</u>	5500	2850	6480	5170	3140	3950	3800	1660	500	280	400	3172
1948-49	1130	3250	6500	1300	6470	4170	3830	4700	1030	330	185	205	2735
1949-50	830	2180	3110	4680	6830	6290	4290	3830	3020	840	300	225	3011
1950-51	3980	7100	5270	7300	5590	3090	3090	2460	605	280	180	175	3247
1951-52	3480	3400	5300	2360	5520	3570	4080	2760	1580	880	265	195	2773
1952-53	130	185	2020	<u>10980</u>	7620	3430	3070	4045	2360	615	343	224	2896
1953-54	655	5120	8820	5900	5670	2520	3990	1345	2030	630	335	600	3116
1954-55	1110	1780	3350	3080	3140	3480	4740	4450	3420	1160	335	330	2524
1955-56	2540	7110	11130	7410	2285	4465	5095	3870	2100	580	265	185	3932
1956-57	1390	2290	6280	1425	5390	6340	3385	1910	910	365	240	160	2492
1957-58	550	1610	8366	5995	6660	2060	4510	1425	1255	475	215	230	2757
1958-59	365	6045	4370	6540	3470	3535	3235	3145	1270	425	205	1070	2800
1959-60	2730	2390	1605	1855	4990	5690	4895	4900	1415	380	270	225	2603
1960-61	610	6870	3070	3015	<u>10380</u>	5895	2830	2935	830	300	165	320	3046
1961-62	1205	3710	6685	3015	2580	4240	5320	3180	1135	355	305	305	2669
1962-63	1910	4155	3865	1170	5610	2540	4365	4115	915	745	300	350	2478
1963-64	564	5340	2505	5795	3025	3445	3515	3250	2810	685	325	255	2620
1964-65	263	3137	<u>14230</u>	9603	3210	1637	2371	1632	607	270	225	142	3127
1965-66	277	1729	1752	5919	2181	4987	3887	1938	711	386	175	172	2012
1966-67	598	3954	4663	6307	2965	2330	1852	2402	1002	237	104	139	2212
1967-68	2151	2113	3842	3821	6654	2284	1730	1724	995	357	<u>782</u>	994	2272
1968-69	2503	5599	6303	5369	2221	3646	4476	3955	2387	966	326	343	3182
1969-70	1039	1350	4216	9368	4028	2633	2247	2759	623	224	173	356	2419
1970-71	841	4452	3908	9010	4534	5016	4124	4044	2238	723	291	904	3335
1971-72	1118	5857	6213	8636	7936	<u>9519</u>	4106	3904	1258	361	170	294	4107
1972-73	251	1430	5378	4125	1488	2421	2219	1133	761	364	<u>102</u>	545	1691
1973-74	829	8371	9590	7661	5081	6036	4605	3430	2986	648	230	190	<u>4131</u>
1974-75	234	1537	6876	8334	4845	4355	2391	3679	1249	506	361	337	2892
1975-76	2030	4150	7723	7832	3602	2927	4283	2940	1279	437	386	235	3157
1976-77	257	647	<u>521</u>	<u>647</u>	<u>758</u>	3079	3044	3512	1320	343	318	663	<u>1261</u>
1977-78	1142	7165	10650	4495	3281	1422	2232	2412	960	444	489	<u>1077</u>	2979
1978-79	459	1495	4973	2029	6225	4132	3901	2514	525	261	180	257	2221
1979-80	791	2009	3372	6110	2665	2721	3309	1341	1352	483	232	246	2053
1980-81	229	2466	8040	1590	4737	1894	3421	2123	3003	619	255	349	2376
1981-82	1295	2720	10370	4799	9235	3274	3566	2104	1045	459	238	417	3260
1982-83	2105	3164	7236	6215	6401	5052	2933	2271	1173	<u>1369</u>	481	337	3216
1983-84	319	4510	5663	4710	5077	5141	3383	4207	3723	726	299	319	3165
1984-85	1617	7592	3604	1909	2539	2518	4336	2167	1797	341	212	426	2408
1985-86	1882	3825	3014	4281	9802	3360	1950	2356	579	343	175	862	2654
1986-87	682	6091	2291	3358	4031	3161	1709	927	485	421	212	144	1941
1987-88	134	492	4065	4732	3082	3435	3767	2921	2107	421	192	253	2133
1988-89	227	5983	2626	5290	2913	6217	4081	1844	816	334	391	266	2577
MEAN	1018	3503	4991	4660	4356	3843	3523	2732	1526	493	253	331	2594
MEDIAN	675	3137	4216	4495	3860	3445	3580	2514	1249	428	231	240	2620

FOS3A

USGS # 14191000

SALEM

River: WILLAMETTE

Drainage Area: 7280 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 84.16

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	2	869	-761	403	269	155	183	59	-29	-333	-561	19
1942-43	-94	1129	909	-825	-242	553	597	-29	-21	-157	-78	-230	126
1943-44	-356	-1319	-14	4	332	516	444	136	26	-37	-55	-274	-49
1944-45	-589	-375	-8	19	701	760	501	115	-27	-78	-90	-503	31
1945-46	-1203	218	486	-822	699	718	422	96	-11	-76	-107	-768	-35
1946-47	-927	119	-122	85	676	916	308	47	43	-27	-69	-110	73
1947-48	-1336	-473	41	-9	812	585	651	11	-9	-57	-88	-435	-30
1948-49	-1433	20	9	-17	1277	150	307	346	-55	-99	-118	-976	-59
1949-50	-731	106	2	840	47	1069	816	285	-1	-149	-211	-1051	87
1950-51	180	-1638	-242	612	337	976	494	425	-103	-210	-721	-863	-61
1951-52	-721	-49	-136	26	919	1007	678	295	-1	-106	-765	-1063	3
1952-53	-898	-83	10	2412	-439	2382	2008	1848	30	-134	-685	-1474	425
1953-54	-2050	968	-1592	1776	666	2030	3692	1961	1204	-541	-1628	-2900	291
1954-55	-2994	-2308	1458	-768	2966	3362	1272	5339	330	-370	-1967	-3222	250
1955-56	-3943	-469	5442	-8240	3213	3345	4122	2234	299	-269	-1381	-3326	68
1956-57	-2484	-4689	11	-1345	9176	937	2537	1285	256	-869	-1764	-3564	-104
1957-58	-3655	-3063	4472	-1872	2242	2182	3780	1861	362	-893	-1978	-3511	-18
1958-59	-4094	-2522	13	2868	1118	4883	3284	747	-14	-1105	-2150	-2661	27
1959-60	-4510	-2618	-106	1038	3925	5291	2118	673	474	-984	-1935	-2822	32
1960-61	-4367	1094	-4205	611	4676	3585	3563	1296	-334	-1416	-2535	-2449	-85
1961-62	-3154	17	156	-936	3589	5587	6392	600	233	-882	-1948	-2758	546
1962-63	-5556	-1347	-3624	150	9141	3906	3080	1353	106	-786	-2210	-2871	42
1963-64	-5558	-3597	-224	2091	1767	5394	4952	2021	1785	-724	-2256	-4134	122
1964-65	-5349	-3000	11659	-5525	-3572	2805	5939	2820	717	-830	-2044	-3864	9
1965-66	-6676	-5065	630	-100	3101	7737	6035	2136	398	-1097	-2786	-4277	-14
1966-67	-5322	-5601	183	5356	1518	5111	3819	6265	2020	-2370	-3487	-4585	246
1967-68	-2571	-8362	413	-161	13793	3122	2971	3309	241	-2092	-2743	-3658	310
1968-69	-8061	-4834	-2429	-1206	3984	9084	10979	4647	302	-857	-4983	-6632	-33
1969-70	-6338	-6927	36	18764	-10062	7448	5042	2775	-561	-3347	-5025	-5294	-192
1970-71	-6209	-1261	-3611	9705	263	6166	4849	4543	-20	-585	-5416	-5920	217
1971-72	-8453	1806	-8325	8899	5162	5408	4137	3943	5	-967	-4530	-8006	-101
1972-73	-6086	-6031	662	286	3593	6667	7114	3808	340	-2534	-4089	-3088	30
1973-74	-8300	993	-657	-302	5144	7745	4331	3266	1403	-482	-3133	-6923	220
1974-75	-9981	-5167	1000	999	10175	5697	3235	4403	1001	-1281	-3725	-8030	-201
1975-76	-6665	-5428	-540	389	8369	5524	6526	4314	609	-1310	-2718	-7333	117
1976-77	-8367	-6162	-1480	-287	1030	7974	8621	6972	945	-2776	-3927	-4777	-195
1977-78	-6424	3360	-5674	-2442	6596	3317	6079	5997	916	-880	-2530	-5785	148
1978-79	-8241	-4113	-2282	815	12346	6081	6154	2104	-509	-2819	-3450	-5757	-62
1979-80	-7135	-4902	-1308	1691	6499	7017	7344	2821	992	-1483	-3784	-7117	28
1980-81	-8132	-4507	3994	-3800	11636	4534	6054	2795	351	-1020	-4241	-7152	-38
1981-82	-7696	-4609	5098	-3039	10760	3692	6217	2527	240	-957	-3661	-6109	132
1982-83	-6188	-6314	-1992	858	10546	9348	2980	2457	50	-132	-2922	-7514	43
1983-84	-8610	-4230	-1625	1278	9397	6941	5212	2701	-249	-234	-2355	-8219	-30
1984-85	-7789	-3802	-3572	587	6262	6433	10037	2951	273	-1571	-3268	-6732	-67
1985-86	-7055	-6802	-736	1423	18696	-818	5368	3080	-228	-1597	-3376	-5604	66
1986-87	-7928	-880	-6449	2629	7072	6509	4374	2104	-718	-1209	-3210	-5162	-295
1987-88	-5407	-3531	-2658	3440	5669	8472	6832	1915	-68	-1851	-3648	-5508	285
1988-89	-8432	-3795	-2634	1176	2732	13203	6120	2855	-77	-1673	-2847	-6882	-31
MEAN	-4849	-2501	-390	799	4140	4284	4011	2305	271	-957	-2354	-4010	48

SLM3SS

USGS # 14207750

T.W. SULLIVAN

River: WILLAMETTE

Drainage Area: 10100 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile: 26.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										5086	3887	3862	
1928-29	5144	13810	27780	40310	29160	34930	45870	28320	20830	6863	4168	3704	21690
1929-30	3689	<u>3054</u>	43740	20980	83910	27000	18780	20670	12720	5038	3410	3395	20130
1930-31	4533	11340	14250	29320	20950	43660	63560	12530	9695	5332	3309	<u>3051</u>	18400
1931-32	6629	31600	47190	68670	38610	89470	48960	31180	19990	8090	4691	3626	33270
1932-33	5637	33880	51380	73310	52030	59380	38030	41550	<u>43070</u>	13000	5580	7004	35240
1933-34	7910	13990	96310	76330	21830	30010	27890	13710	7076	4429	3526	3255	25690
1934-35	11010	53580	72410	62410	43950	46440	38790	24770	13190	6927	4044	3740	31720
1935-36	5083	10050	17730	109700	42980	39640	33530	29950	16710	7273	4283	4112	26780
1936-37	<u>3562</u>	3436	14110	15800	63590	54140	<u>82440</u>	38100	32720	11310	5316	4704	27100
1937-38	8254	63330	79730	75740	67290	79470	47990	27790	11620	5657	3931	3761	39410
1938-39	4370	20330	32280	36960	61590	51320	24830	13730	11210	5868	3560	3597	22230
1939-40	5150	4621	30970	31370	83660	58290	30410	17130	<u>6039</u>	<u>3680</u>	<u>2921</u>	3543	22950
1940-41	5389	24590	38880	47820	21750	<u>14750</u>	<u>13610</u>	19020	11830	5599	3808	7391	17880
1941-42	8413	34640	83100	41630	51220	23720	16230	24670	19200	8610	4560	3814	26540
1942-43	3806	66220	108700	94650	77360	30020	58730	22900	23960	10290	6046	5039	42060
1943-44	13580	23630	24710	28550	34710	26110	32500	17590	10830	5383	3518	3695	18660
1944-45	4036	10960	11750	41240	71180	56480	48520	43180	14350	5641	3866	4991	26050
1945-46	5046	46680	76060	88630	54630	63380	29320	21800	15050	8317	4562	4843	34820
1946-47	11730	53010	86370	41420	56110	39660	41630	13110	16400	8483	5551	4873	31350
1947-48	<u>42510</u>	65990	38320	86090	61650	49900	43730	39350	20590	8664	5851	6217	39000
1948-49	11250	33120	84480	24910	100600	49790	33780	42990	14630	7046	4669	5322	33980
1949-50	8964	18260	39380	84430	91920	80490	46010	33900	28770	11060	5665	5378	37550
1950-51	30790	95660	76710	102300	77440	54120	30910	25450	10410	5914	4640	4702	43060
1951-52	26670	38010	84830	50980	78510	46320	39070	26820	16990	12700	5656	5362	35880
1952-53	4706	4598	22220	127400	94040	46490	30240	38740	28750	10110	6553	6438	34730
1953-54	10590	47470	107200	87880	85950	35590	39260	15260	19130	10050	7209	9358	39320
1954-55	12870	22340	32450	47900	31190	40410	61080	31660	25930	11720	6838	8176	27670
1955-56	23650	70240	146300	<u>131400</u>	46150	65150	43540	31950	21990	9560	6654	7710	50540
1956-57	14310	28350	53690	26200	46120	87840	37450	22060	12530	6627	6217	7234	29000
1957-58	10460	16040	74780	77780	101400	33700	42500	18460	15290	7873	6059	7781	33950
1958-59	9535	52340	42580	89370	62340	34620	31420	27500	13750	6948	5702	10550	32030
1959-60	21490	19810	19700	26430	64390	80500	55670	47940	18600	6884	6263	6960	29410
1960-61	10320	62420	46200	39250	<u>125500</u>	89130	29490	30330	12900	6881	6037	7024	38200
1961-62	12330	31950	72790	36110	30900	51760	41640	34810	15590	7061	6836	7293	29130
1962-63	21200	46190	51730	17290	57850	31370	63450	<u>50010</u>	11650	8823	6468	7610	30910
1963-64	12350	52960	31950	100800	40030	39070	24540	22940	22570	9070	7346	8238	30990
1964-65	9933	26900	<u>154700</u>	125300	56990	18740	18780	15370	8942	5928	6091	6781	37960
1965-66	11280	21990	29580	96670	27610	58870	28770	16120	7971	6084	5561	8022	26640
1966-67	11910	39080	64840	71210	46680	31100	21490	17580	10600	6333	5643	7415	27760
1967-68	16990	23890	41950	48880	73310	30270	17760	13660	12000	6707	<u>9982</u>	11800	25440
1968-69	30030	68460	96020	84320	51960	32060	27080	26850	20070	11740	9108	11460	39070
1969-70	15370	21660	59350	107200	78730	27090	19200	23420	9872	7442	7738	9446	32020
1970-71	14040	39870	68700	112300	53820	67480	47310	29260	22150	10470	9927	13720	40760
1971-72	17940	44410	95940	99100	69290	<u>99600</u>	44840	30350	17240	7959	8860	13000	45750
1972-73	11480	19440	55230	54540	18250	24420	17970	<u>9625</u>	7772	6588	6845	8800	20170
1973-74	14830	<u>96840</u>	118500	110100	66780	72420	52350	25880	24660	10310	7895	10640	<u>50860</u>
1974-75	14160	21160	61680	85250	56470	55190	26230	29280	15490	9651	9233	12640	33000
1975-76	21230	43560	84140	90470	41310	39000	39780	24150	13820	8595	8920	12010	35640
1976-77	13140	13300	<u>7824</u>	<u>8824</u>	<u>7443</u>	26090	15580	20040	11540	6648	7205	10610	<u>12390</u>
1977-78	14720	51450	122400	66240	39430	16310	20840	20080	10290	7003	7958	<u>15340</u>	32710
1978-79	13530	15490	45870	25000	65700	42840	34790	27780	8822	7088	6956	9771	25060
1979-80	16460	27720	50040	81270	30420	33830	31270	13120	12360	7201	6862	10330	26790
1980-81	11510	24030	85890	31980	40280	21710	30400	17040	24150	8464	7764	11230	26130
1981-82	18710	37710	118300	78240	87580	44140	42240	19370	12970	8379	8248	11380	40380
1982-83	20170	32890	93940	71190	81420	62200	41010	22560	14890	<u>14800</u>	9539	13300	39640
1983-84	13940	56750	70460	53030	56300	49200	39690	37290	35220	10610	7473	12830	36800
1984-85	20100	86790	54960	25670	30700	24760	30630	17320	18930	7223	7554	12100	27940
1985-86	19590	35560	33140	52250	85710	49350	16940	21220	9678	7128	6780	12290	28790
1986-87	14800	49040	39420	49000	55590	38360	16200	10020	7695	6872	6567	7983	24930
1987-88	8146	9289	50930	62040	28560	27490	34210	28970	21570	7900	6915	8660	24600
1988-89	11510	49210	34780	61140	33750	60010	36200	15980	11460	6960	7501	10020	28180
MEAN	12990	35820	61010	64470	56670	46170	35850	25150	16340	7935	6167	7725	31260
MEDIAN	11730	32890	53690	62410	56110	43660	34210	24150	14630	7212	6154	7403	30990

SVN3H

USGS # 14207750

T.W. SULLIVAN

River: WILLAMETTE

Drainage Area:

10100 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

26.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										5086	3887	3862	
1928-29	5144	13810	27780	40310	29160	34930	45870	28320	20830	6863	4168	3704	21690
1929-30	3689	<u>3054</u>	43740	20980	83910	27000	18780	20670	12720	5038	3410	3395	20130
1930-31	4533	11340	14250	29320	20950	43660	63560	12530	9695	5332	3309	3051	18400
1931-32	6629	31600	47190	68670	38610	89470	48960	31180	19990	8090	4691	3626	33270
1932-33	5637	33860	51380	73310	52030	59380	38030	41550	<u>43070</u>	13000	5580	7004	35240
1933-34	7910	13990	96310	76330	21830	30010	27890	13710	7076	4429	3526	3255	25690
1934-35	11010	53580	72410	62410	43950	46440	38790	24770	13190	6927	4044	3740	31720
1935-36	5083	10050	17730	109700	42980	39640	33530	29950	16710	7273	4283	4112	26780
1936-37	3562	3436	14110	15800	63590	54140	<u>82440</u>	38100	32720	11310	5316	4704	27100
1937-38	8254	63330	79730	75740	67290	79470	47990	27790	11620	5657	3931	3761	39410
1938-39	4370	20330	32280	36960	61590	51320	24830	13730	11210	5868	3560	3597	22230
1939-40	5150	4621	30970	31370	83860	58290	30410	17130	<u>6039</u>	<u>3680</u>	2921	3543	22950
1940-41	5389	24590	38880	47820	21750	<u>14750</u>	<u>13610</u>	19020	11830	5599	3808	7391	17880
1941-42	8413	34640	83970	40870	51620	23990	16390	24860	19260	8581	4226	3253	26560
1942-43	3712	67350	109600	93820	77110	30580	59330	22870	23940	10130	5968	4809	42190
1943-44	13220	22310	24700	28560	35040	26630	32950	17730	10860	5346	3463	3421	18610
1944-45	3447	10590	11740	41260	71880	57240	49020	43300	14330	5563	3776	4488	26080
1945-46	3843	46890	76540	87810	55330	64100	29740	21900	15040	8241	4455	4076	34780
1946-47	10800	53130	86250	41500	56780	40580	41930	13160	16450	8456	5482	4762	31430
1947-48	<u>41180</u>	65520	38360	86080	62470	50490	44380	39360	20580	8607	5763	5782	38970
1948-49	9817	33140	84490	24890	101900	49940	34080	43340	14570	6947	4551	4346	33920
1949-50	8233	18360	39380	85270	91970	81560	46830	34180	28770	10910	5455	4327	37640
1950-51	30970	94030	76470	102900	77770	55100	31400	25880	10310	5703	3919	3839	43000
1951-52	25950	37960	84700	51000	79430	47320	39750	27110	16990	12600	4891	4300	35890
1952-53	3808	4516	22230	<u>129800</u>	93610	48870	32250	40590	28780	9976	5867	4964	35150
1953-54	8536	48440	105600	89660	86620	37620	42950	17230	20330	9513	5582	6458	39610
1954-55	9877	20030	33910	47130	34150	43780	62350	37000	26260	11350	4872	4953	27920
1955-56	19710	69770	151800	123200	49360	68490	47660	34180	22280	9291	5272	4384	50610
1956-57	11830	23660	53710	24860	55300	88780	39990	23350	12790	5759	4453	3670	28890
1957-58	6807	12980	79250	75910	103700	35890	46280	20320	15650	6980	4081	4270	33930
1958-59	5441	49820	42590	92240	63460	39500	34710	28250	13730	5843	3551	7886	32060
1959-60	16980	17190	19590	27470	88310	65790	57780	48610	19070	5899	4328	4137	29480
1960-61	5950	63510	42000	39860	<u>130200</u>	92710	33050	31620	12570	5464	3502	4575	38110
1961-62	9179	31970	72940	35170	34490	57350	48040	35410	15820	6179	4888	4535	29680
1962-63	15640	44840	48110	17440	66990	35270	66530	<u>51360</u>	11760	8036	4259	4739	30950
1963-64	6790	49360	31730	102900	41800	44460	29490	24960	24360	8345	5090	4104	31110
1964-65	4584	23900	<u>166400</u>	119700	53420	21540	24720	18190	9659	5098	4047	2917	37970
1965-66	4603	16920	30210	96570	30710	66600	34800	18260	8369	4988	2775	3745	26630
1966-67	6589	33480	65020	76560	48200	36210	25310	23840	12620	3964	<u>2156</u>	2830	28000
1967-68	14420	15530	42360	48720	87110	33390	20730	16970	12250	4615	<u>7240</u>	8138	25750
1968-69	21970	63630	93600	83110	55940	41140	38060	31500	20380	10880	4125	4832	39040
1969-70	9036	14740	59390	126000	68670	34540	24240	26200	9311	4094	2713	4152	31830
1970-71	7833	38610	65090	122000	54080	73650	52160	33800	22130	9884	4511	7798	40970
1971-72	9482	46210	87610	108000	74450	<u>105000</u>	48970	34290	17240	6992	4329	4996	45650
1972-73	5396	13410	55890	54830	21840	31080	25080	13430	8111	4054	2756	5712	20200
1973-74	6532	<u>97840</u>	117800	109800	71930	80170	56680	29140	26060	9827	4782	3719	<u>51080</u>
1974-75	4183	16000	62680	86250	66640	60880	29460	33690	16490	8370	5508	4607	32800
1975-76	14570	38130	83600	90860	49680	44520	46310	28470	14430	7285	6202	4676	35760
1976-77	4769	7140	<u>6344</u>	<u>8537</u>	<u>8472</u>	34060	24200	27010	12480	3871	3277	5832	<u>12190</u>
1977-78	8300	54810	116700	63790	48020	19620	26920	26070	11210	6123	5427	<u>9559</u>	32850
1978-79	5288	11380	43590	25820	78050	48920	40940	29890	8314	4268	3506	4014	25000
1979-80	9326	22820	48740	82960	36920	40850	38620	15940	13350	5718	3078	3214	26820
1980-81	3382	19520	89880	28180	51920	26240	36450	19830	24500	7444	3523	4080	26090
1981-82	11020	33100	123400	75200	98340	47840	48450	21900	13210	7422	4587	5275	40510
1982-83	13990	26580	91950	72050	91970	71550	43990	25020	14940	<u>14670</u>	6617	5786	39680
1983-84	5334	52520	68840	54310	65700	56140	44910	39990	34970	10380	5117	4609	36770
1984-85	12310	82990	51380	26260	36960	31200	40670	20270	19200	5652	4286	5367	27870
1985-86	12530	28760	32400	53670	104400	48530	22310	24300	9450	5530	3404	6687	28850
1986-87	6869	48160	32980	51630	62670	44870	20570	<u>12130</u>	6978	5663	3358	<u>2821</u>	24640
1987-88	<u>2738</u>	5758	48280	65480	34230	35960	41040	30890	21500	6049	3267	3153	24890
1988-89	3074	45410	32150	62320	36480	73220	42320	18840	11380	5286	4654	3137	28150
MEAN	9256	33850	60700	65100	59920	49550	39010	26960	16550	7194	4344	4621	31300
MEDIAN	6869	31600	51380	63790	56780	46440	38790	26070	14570	6521	4271	4313	31110

SVN3A

USGS # 14208695

TIMOTHY MEADOWS

River: OAK GROVE FK

Drainage Area:

53 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

15.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										107	95	87	
1928-29	82	87	86	92	82	117	156	292	185	105	87	77	121
1929-30	68	62	103	88	183	136	157	112	89	64	54	51	96
1930-31	51	57	58	76	78	138	258	136	80	62	54	49	91
1931-32	47	<u>57</u>	<u>58</u>	95	76	199	230	274	157	88	69	59	118
1932-33	59	125	109	125	88	94	170	254	304	134	93	79	136
1933-34	75	80	304	279	163	172	155	93	82	71	65	60	133
1934-35	66	102	154	116	126	118	162	260	154	96	78	69	125
1935-36	66	66	68	185	102	136	216	275	135	92	79	73	125
1936-37	61	60	75	70	70	99	227	302	204	112	80	69	119
1937-38	69	118	184	209	136	151	236	272	146	106	90	83	150
1938-39	76	86	121	110	115	146	230	205	113	86	75	71	119
1939-40	69	66	91	91	169	221	200	114	81	70	65	65	108
1940-41	64	84	92	94	92	87	96	94	72	44	42	47	<u>75</u>
1941-42	51	74	172	95	123	95	139	129	100	66	47	48	95
1942-43	55	139	202	155	160	142	<u>323</u>	308	261	157	113	99	176
1943-44	97	98	109	99	109	100	149	145	102	77	74	73	102
1944-45	64	88	68	105	156	112	175	275	110	71	55	52	109
1945-46	50	85	149	177	111	127	163	285	189	124	97	98	138
1946-47	114	138	<u>321</u>	141	164	174	199	152	118	97	73	70	147
1947-48	106	135	90	205	160	153	175	249	215	125	98	87	150
1948-49	84	103	150	97	123	149	250	<u>457</u>	237	146	111	98	167
1949-50	92	95	116	115	151	218	210	303	<u>359</u>	<u>193</u>	121	98	173
1950-51	125	197	251	218	273	174	257	353	188	146	124	107	201
1951-52	138	121	160	108	149	138	238	299	174	132	103	90	154
1952-53	79	73	75	281	268	153	169	250	200	140	118	92	158
1953-54	83	107	237	166	187	176	214	271	230	161	125	108	172
1954-55	106	97	101	118	121	93	134	229	298	167	102	88	138
1955-56	105	178	305	265	156	146	244	268	<u>9</u>	<u>7</u>	<u>13</u>	<u>17</u>	143
1956-57	74	224	152	237	236	<u>31</u>	<u>35</u>	<u>33</u>	32	31	34	33	95
1957-58	122	193	133	105	50	171	41	115	96	60	50	81	102
1958-59	205	89	108	74	132	142	76	122	97	60	43	221	114
1959-60	152	188	153	200	49	45	46	57	88	53	50	226	109
1960-61	211	148	176	124	57	104	171	178	118	75	66	111	129
1961-62	177	206	142	105	181	108	51	133	104	59	50	59	114
1962-63	84	102	142	210	53	121	156	149	89	66	54	51	107
1963-64	58	87	190	153	151	190	89	45	44	73	56	56	99
1964-65	49	117	225	197	216	180	192	207	126	94	89	59	144
1965-66	64	148	274	156	84	49	50	168	93	38	41	77	104
1966-67	191	201	90	90	119	127	96	39	36	43	37	37	92
1967-68	70	128	218	164	91	142	145	47	50	41	46	51	100
1968-69	123	112	167	239	<u>333</u>	165	44	172	206	109	105	84	154
1969-70	111	220	197	127	79	134	172	146	120	50	60	168	132
1970-71	176	164	184	102	93	218	106	364	277	141	103	128	172
1971-72	215	204	121	156	216	<u>452</u>	275	339	255	168	134	123	<u>222</u>
1972-73	144	224	183	209	152	47	49	67	46	39	48	71	106
1973-74	173	143	125	<u>343</u>	263	298	202	273	301	148	119	128	209
1974-75	<u>274</u>	226	123	91	210	252	229	167	158	103	93	<u>237</u>	180
1975-76	241	129	108	234	186	230	201	210	177	123	110	170	177
1976-77	173	234	96	<u>45</u>	43	87	39	35	33	33	33	97	79
1977-78	218	168	92	212	201	184	38	35	38	36	122	38	115
1978-79	189	332	207	314	83	40	42	35	34	34	36	71	118
1979-80	229	<u>337</u>	119	114	207	120	40	35	34	34	36	101	117
1980-81	239	135	169	93	180	196	45	36	36	36	37	231	119
1981-82	<u>42</u>	185	67	179	247	296	246	104	119	96	80	84	144
1982-83	209	182	109	178	176	304	227	188	99	102	84	228	174
1983-84	85	149	144	99	196	185	156	148	141	94	99	194	140
1984-85	142	84	189	255	140	200	44	62	96	47	106	107	123
1985-86	153	237	197	91	131	252	224	94	99	70	<u>171</u>	127	154
1986-87	66	188	281	55	<u>41</u>	43	100	68	59	54	44	105	92
1987-88	226	95	186	230	44	42	62	213	134	64	57	89	121
1988-89	143	167	264	167	105	90	88	167	86	76	65	123	129
MEAN	119	139	153	153	142	151	153	179	133	87	77	96	132
MEDIAN	97	128	144	127	136	142	162	167	113	76	75	84	125

TMY3H

USGS # 14208695

TIMOTHY MEADOWS

River: OAK GROVE FK

Drainage Area:

53 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

15.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	117	200	106	72	53	46
1956-57	13	-148	40	-136	-99	184	190	162	60	27	14	4	27
1957-58	-78	-143	10	42	189	-41	169	29	-9	7	-2	-44	9
1958-59	-191	44	33	108	-17	-45	78	29	-5	2	2	-168	-11
1959-60	-65	-98	-54	-151	91	84	197	145	21	7	0	-201	-2
1960-61	-141	20	-61	17	278	102	2	0	-2	2	0	-50	12
1961-62	-112	-129	2	52	-57	20	196	74	0	0	0	-5	4
1962-63	-7	12	0	-132	129	16	0	0	0	0	0	0	0
1963-64	-9	-2	-133	-45	-77	-103	80	156	136	0	0	0	0
1964-65	-3	-36	31	11	-5	-2	2	-2	3	0	-13	11	0
1965-66	2	-56	-189	-28	9	66	163	38	11	30	5	-33	1
1966-67	-139	-110	23	71	23	-6	15	99	52	3	0	0	3
1967-68	-7	-51	-124	-49	155	38	-21	54	-9	23	-5	-26	-2
1968-69	-53	39	-20	-69	-208	-43	178	192	2	0	-25	-9	0
1969-70	-31	-145	-89	110	113	35	0	22	0	25	-7	-88	-5
1970-71	-85	-43	-63	115	109	-84	85	24	2	5	-5	-23	2
1971-72	-103	-106	175	-47	34	33	14	18	2	0	0	-2	2
1972-73	-35	-101	8	-35	-25	87	71	29	26	11	0	-12	2
1973-74	-121	2	96	-11	-80	-139	83	107	41	32	7	-17	0
1974-75	-178	-136	72	170	17	-41	-49	102	40	12	5	-126	-9
1975-76	-131	-2	201	0	-2	-72	0	131	0	0	0	-56	6
1976-77	-154	-220	2	50	45	16	73	64	24	8	7	-48	-11
1977-78	-162	-37	319	-62	-52	-51	103	70	34	15	-75	17	10
1978-79	-134	-269	-80	-21	76	134	160	163	53	25	15	-26	8
1979-80	-169	-262	18	82	-53	48	177	132	62	25	12	-47	3
1980-81	-168	-44	51	35	21	-54	92	63	63	20	7	-169	-7
1981-82	25	-103	155	1	95	-80	-51	107	24	-1	-2	-5	14
1982-83	-115	-76	70	68	46	8	0	-18	24	3	2	-150	-12
1983-84	0	-16	-15	72	-30	22	47	48	14	2	-18	-126	0
1984-85	-42	102	-64	-163	-23	-72	217	132	24	31	-31	-28	7
1985-86	-65	-118	-93	36	142	78	2	66	8	13	-90	-40	-6
1986-87	10	-49	-156	56	98	111	43	26	4	0	0	-63	6
1987-88	-156	-22	-47	-117	84	145	205	-19	-7	7	-1	-32	3
1988-89	-81	-34	-125	0	12	80	170	0	9	-6	-3	-66	-4
MEAN	-81	-71	0	1	31	14	82	71	27	13	-4	-46	3

TMY3S

USGS # 14208695

TIMOTHY MEADOWS

River: OAK GROVE FK

Drainage Area:

53 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

15.8

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										107	95	87	
1928-29	82	87	86	92	82	117	156	292	185	105	87	77	121
1929-30	68	62	103	88	183	136	157	112	89	64	54	51	96
1930-31	51	57	58	76	78	138	258	136	80	62	54	49	91
1931-32	47	57	58	95	76	199	230	274	157	88	69	59	118
1932-33	59	125	109	125	88	94	170	254	304	134	93	79	136
1933-34	75	80	304	279	163	172	155	<u>93</u>	82	71	65	60	133
1934-35	66	102	154	116	126	116	162	260	154	96	78	69	125
1935-36	66	66	68	185	102	136	216	275	135	92	79	73	125
1936-37	61	60	75	70	<u>70</u>	99	227	302	204	112	80	69	119
1937-38	69	118	184	209	136	151	236	272	146	106	90	83	150
1938-39	76	86	121	110	115	146	230	205	113	86	75	71	119
1939-40	69	66	91	91	169	221	200	114	81	70	65	65	108
1940-41	64	84	92	94	92	87	<u>96</u>	94	72	44	42	47	75
1941-42	51	74	172	95	123	95	139	129	100	66	47	48	95
1942-43	55	139	202	155	160	142	<u>323</u>	308	261	157	113	99	176
1943-44	97	98	109	99	109	100	149	145	102	77	74	73	102
1944-45	64	68	68	105	156	112	175	275	110	71	55	52	109
1945-46	50	85	149	177	111	127	163	285	189	124	97	98	138
1946-47	114	138	321	141	164	174	199	152	118	97	73	70	147
1947-48	106	135	90	205	160	153	175	249	215	125	98	87	150
1948-49	84	103	150	97	123	149	250	<u>457</u>	237	146	111	98	167
1949-50	92	95	116	115	151	218	210	303	<u>359</u>	<u>193</u>	121	98	173
1950-51	125	<u>197</u>	251	218	273	174	257	353	188	146	124	107	201
1951-52	<u>138</u>	121	160	108	149	138	238	299	174	132	103	90	154
1952-53	79	73	75	281	268	153	169	250	200	140	118	92	158
1953-54	83	107	237	166	187	176	214	271	230	161	125	108	172
1954-55	106	97	101	118	121	93	134	229	298	167	102	88	138
1955-56	105	178	305	265	156	146	244	385	209	113	85	70	189
1956-57	87	76	191	101	138	214	225	195	93	57	48	37	122
1957-58	44	50	143	148	239	129	210	144	86	67	48	37	111
1958-59	<u>15</u>	133	141	182	116	97	154	151	92	62	45	53	103
1959-60	87	90	100	<u>50</u>	141	129	242	202	109	60	50	25	107
1960-61	70	168	115	141	335	206	174	178	115	77	66	60	141
1961-62	64	77	144	157	124	128	247	207	104	59	50	55	118
1962-63	77	114	142	78	182	136	156	149	89	66	54	51	107
1963-64	49	85	<u>57</u>	108	74	<u>87</u>	169	201	181	73	56	56	99
1964-65	46	81	256	208	211	158	194	205	129	94	76	70	144
1965-66	66	92	85	128	93	115	213	206	104	68	46	44	105
1966-67	52	91	113	161	142	121	111	138	88	46	<u>37</u>	37	94
1967-68	63	77	94	115	246	180	124	101	<u>41</u>	64	41	<u>25</u>	97
1968-69	70	151	147	170	125	122	222	364	208	109	80	75	154
1969-70	80	75	108	237	192	169	172	168	120	75	53	80	127
1970-71	91	121	121	217	202	134	191	388	279	146	98	105	174
1971-72	112	98	296	109	250	<u>485</u>	289	357	257	168	<u>134</u>	<u>121</u>	<u>223</u>
1972-73	109	123	191	174	127	134	120	96	72	50	48	59	109
1973-74	52	145	221	<u>332</u>	183	159	285	380	342	180	126	111	210
1974-75	96	90	195	261	227	211	180	269	198	115	98	111	171
1975-76	110	127	309	234	184	158	201	341	177	123	110	114	183
1976-77	19	<u>14</u>	98	95	88	103	112	99	57	<u>41</u>	40	49	<u>68</u>
1977-78	56	131	<u>411</u>	150	149	133	141	105	72	51	47	55	125
1978-79	55	63	127	293	159	174	202	198	87	59	51	45	126
1979-80	60	75	137	197	154	168	217	167	96	60	49	55	119
1980-81	71	91	220	127	201	141	137	99	98	56	44	62	112
1981-82	67	82	223	180	<u>342</u>	216	195	211	143	95	78	79	158
1982-83	94	106	179	246	222	312	227	170	123	105	85	78	162
1983-84	85	132	130	171	167	206	203	196	155	96	81	68	141
1984-85	100	186	125	92	117	128	262	194	120	78	75	79	129
1985-86	88	119	104	128	272	330	226	159	107	82	81	87	148
1986-87	76	140	124	111	139	154	143	94	63	54	44	42	98
1987-88	70	73	139	112	128	187	266	195	127	71	57	57	123
1988-89	62	133	139	167	117	170	259	167	95	69	62	56	125
MEAN	75	101	153	153	159	158	197	217	148	94	75	70	133
MEDIAN	70	92	137	141	149	146	200	202	120	84	74	69	125

TMY3A

USGS # 14209095

OAK GROVE

River: OAK GROVE FK

Drainage Area:

126 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

5.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										387	359	344	
1928-29	340	367	351	348	317	436	524	903	628	383	343	323	439
1929-30	305	280	401	333	632	484	527	438	361	302	276	267	382
1930-31	262	<u>263</u>	<u>268</u>	291	304	490	829	501	339	298	276	264	365
1931-32	252	266	269	357	298	650	746	857	549	350	308	285	433
1932-33	281	498	420	458	335	374	567	805	954	440	355	328	485
1933-34	323	342	995	980	569	579	522	389	342	316	299	287	496
1934-35	298	418	553	427	453	432	542	822	543	366	325	307	457
1935-36	299	296	299	662	379	484	704	860	488	358	327	314	456
1936-37	287	274	319	271	281	388	735	930	679	397	328	307	433
1937-38	306	472	641	744	484	524	762	853	519	386	349	335	532
1938-39	324	384	455	408	420	510	745	680	428	345	320	309	442
1939-40	308	295	386	344	587	705	655	443	341	314	298	298	412
1940-41	294	355	368	353	347	357	348	392	316	263	252	259	<u>325</u>
1941-42	263	322	607	358	444	376	475	482	393	306	262	261	379
1942-43	272	546	696	560	560	500	<u>1020</u>	944	836	486	394	370	598
1943-44	377	406	419	369	399	389	504	523	399	327	317	315	395
1944-45	296	304	299	389	546	421	583	860	421	316	278	270	414
1945-46	259	362	537	633	406	461	547	886	638	421	364	367	491
1946-47	418	543	1047	513	572	584	652	543	442	366	315	308	525
1947-48	400	533	363	730	559	529	583	794	711	422	365	345	528
1948-49	343	422	542	362	446	517	804	<u>1331</u>	770	464	390	367	564
1949-50	363	395	439	425	531	698	685	933	1109	<u>557</u>	411	369	576
1950-51	448	<u>744</u>	840	772	909	583	826	1061	635	464	416	387	672
1951-52	478	483	570	401	525	491	770	923	596	436	375	350	533
1952-53	333	318	319	986	896	528	563	796	668	452	405	355	550
1953-54	342	435	798	599	644	590	699	850	750	493	418	390	584
1954-55	400	402	396	434	438	371	461	741	939	506	373	348	484
1955-56	397	677	999	932	548	512	786	1028	493	293	267	256	600
1956-57	317	500	569	529	536	543	540	459	303	266	255	<u>247</u>	421
1957-58	375	452	589	561	618	550	536	536	390	314	285	317	459
1958-59	474	495	527	551	533	528	522	548	407	302	271	495	471
1959-60	439	518	463	495	454	488	624	591	492	324	297	<u>517</u>	475
1960-61	454	602	516	494	780	590	633	638	425	325	303	328	505
1961-62	427	508	556	582	529	429	633	629	437	319	289	296	469
1962-63	348	482	563	517	519	459	586	561	375	319	288	281	441
1963-64	279	414	500	542	533	534	499	546	474	327	282	281	434
1964-65	262	359	<u>1047</u>	767	730	502	649	616	418	335	321	285	524
1965-66	302	385	500	463	333	414	631	699	417	304	285	302	420
1966-67	416	512	432	517	498	432	386	446	345	276	259	253	397
1967-68	323	389	535	523	701	536	458	367	326	289	304	312	421
1968-69	411	613	575	680	555	460	554	911	610	402	374	348	541
1969-70	360	470	520	761	528	538	570	572	414	267	272	365	469
1970-71	387	504	510	711	591	601	561	1104	808	465	369	390	583
1971-72	484	577	584	734	836	<u>1377</u>	793	1044	720	458	401	391	700
1972-73	405	514	621	587	445	360	374	363	299	272	269	290	400
1973-74	404	543	707	<u>1036</u>	740	759	825	1018	<u>1126</u>	517	<u>429</u>	412	<u>709</u>
1974-75	<u>517</u>	491	588	701	640	665	575	721	582	389	356	433	553
1975-76	492	453	764	856	595	574	650	876	562	412	371	397	584
1976-77	488	542	325	<u>255</u>	<u>250</u>	<u>327</u>	382	364	281	243	242	315	335
1977-78	427	545	834	549	561	479	<u>311</u>	<u>292</u>	<u>265</u>	<u>241</u>	340	256	425
1978-79	420	588	602	547	508	446	449	467	275	265	<u>225</u>	267	421
1979-80	461	565	454	626	568	495	509	418	329	282	248	308	438
1980-81	463	399	716	411	639	525	405	351	413	300	249	454	442
1981-82	<u>236</u>	394	625	569	<u>959</u>	688	600	551	442	333	302	309	498
1982-83	456	477	589	742	675	877	669	565	393	361	328	482	551
1983-84	306	479	531	647	673	705	617	635	557	365	341	457	525
1984-85	401	598	552	552	420	538	619	559	488	313	357	358	480
1985-86	421	603	464	462	807	848	631	462	371	302	400	360	509
1986-87	279	580	585	321	445	431	499	383	299	275	248	314	387
1987-88	427	288	481	502	391	457	620	627	428	287	246	263	418
1988-89	322	464	561	543	390	516	659	556	343	308	280	342	441
MEAN	365	454	550	554	538	535	602	673	510	354	320	334	482
MEDIAN	360	470	537	542	533	512	586	627	437	327	316	316	469

OAK3H

USGS # 14209095

OAK GROVE

River: OAK GROVE FK

Drainage Area:

126 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

5.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										387	359	344	
1928-29	340	367	351	348	317	436	524	903	628	383	343	323	439
1929-30	305	280	401	333	632	484	527	438	361	302	276	267	382
1930-31	262	<u>263</u>	<u>268</u>	291	304	490	829	501	339	298	276	264	365
1931-32	252	266	269	357	298	650	746	857	549	350	308	285	433
1932-33	281	498	420	458	335	374	567	805	954	440	355	328	485
1933-34	323	342	995	980	569	579	522	389	342	316	299	287	496
1934-35	298	418	553	427	453	432	542	822	543	366	325	307	457
1935-36	299	296	299	662	379	484	704	860	488	358	327	314	456
1936-37	287	274	319	<u>271</u>	<u>281</u>	388	735	930	679	397	328	307	433
1937-38	306	472	641	744	484	524	762	853	519	386	349	335	532
1938-39	324	364	455	408	420	510	745	680	428	345	320	309	442
1939-40	308	295	366	344	587	705	655	443	341	314	298	298	412
1940-41	294	355	368	353	347	357	<u>348</u>	392	316	263	252	259	325
1941-42	263	322	607	358	444	376	475	482	393	306	262	261	379
1942-43	272	546	696	560	560	500	<u>1020</u>	944	836	486	394	370	598
1943-44	377	406	419	369	399	389	504	523	399	327	317	315	395
1944-45	296	304	299	389	546	421	583	860	421	316	278	270	414
1945-46	259	362	537	633	406	461	547	886	638	421	364	367	491
1946-47	418	543	1047	513	572	584	652	543	442	366	315	308	525
1947-48	400	533	363	730	559	529	583	794	711	422	365	345	528
1948-49	343	422	542	362	446	517	804	<u>1331</u>	770	464	390	367	564
1949-50	363	395	439	425	531	698	685	933	1109	<u>557</u>	411	369	576
1950-51	448	<u>744</u>	840	772	909	583	826	1061	635	464	416	387	672
1951-52	<u>478</u>	483	570	401	525	491	770	923	596	436	375	350	533
1952-53	333	318	319	986	896	528	563	796	668	452	405	355	550
1953-54	342	435	798	599	644	590	699	850	750	493	418	390	584
1954-55	400	402	396	434	438	371	461	741	939	506	373	348	484
1955-56	397	677	999	932	548	512	786	1145	693	399	339	309	646
1956-57	330	352	609	393	437	727	730	620	364	293	270	251	448
1957-58	297	308	598	603	807	509	705	565	380	320	283	274	469
1958-59	284	539	560	659	516	483	600	577	402	305	274	327	460
1959-60	374	420	410	344	<u>546</u>	572	821	736	512	331	297	316	472
1960-61	313	622	455	511	<u>1058</u>	693	635	638	423	327	303	278	517
1961-62	314	379	558	634	<u>472</u>	449	829	703	437	319	289	291	473
1962-63	341	493	563	385	648	474	586	561	375	319	288	281	441
1963-64	270	412	367	497	455	431	578	702	610	327	282	281	434
1964-65	259	323	1078	778	725	500	651	614	421	335	308	296	523
1965-66	304	329	311	435	342	480	794	737	428	334	290	269	421
1966-67	277	402	455	588	521	426	401	545	397	279	259	253	400
1967-68	316	338	411	474	856	574	437	421	317	312	299	286	419
1968-69	358	652	555	611	347	417	732	1103	612	402	349	339	541
1969-70	329	325	431	871	641	573	570	594	414	292	265	277	464
1970-71	302	461	447	826	700	517	646	1128	810	470	364	367	586
1971-72	381	471	759	687	870	<u>1410</u>	807	1062	722	458	401	389	702
1972-73	370	413	629	552	420	447	445	392	325	283	269	278	402
1973-74	283	545	803	<u>1025</u>	660	620	908	1125	<u>1167</u>	549	<u>436</u>	<u>395</u>	<u>710</u>
1974-75	339	355	640	871	657	624	526	823	<u>622</u>	401	361	307	544
1975-76	361	451	965	856	593	502	650	1007	562	412	371	341	590
1976-77	334	322	327	305	295	<u>343</u>	455	428	305	<u>251</u>	249	267	<u>323</u>
1977-78	265	508	<u>1153</u>	487	509	428	414	<u>362</u>	<u>299</u>	256	265	273	435
1978-79	286	319	522	526	584	580	609	630	328	290	<u>240</u>	241	429
1979-80	292	303	472	709	515	543	686	550	390	307	260	261	441
1980-81	296	355	766	446	660	470	497	413	476	319	256	285	435
1981-82	261	291	781	571	1054	608	549	658	465	332	300	304	511
1982-83	341	400	659	810	721	885	669	547	417	363	330	332	539
1983-84	305	463	517	719	644	726	663	683	571	368	323	331	526
1984-85	359	700	488	389	397	466	836	692	513	345	326	330	486
1985-86	356	486	371	499	949	926	633	527	380	315	310	321	503
1986-87	289	531	428	377	543	542	542	409	302	275	249	251	394
1987-88	271	266	434	385	475	602	824	609	420	295	246	<u>231</u>	421
1988-89	<u>241</u>	430	436	543	402	596	829	556	352	301	276	276	436
MEAN	321	416	550	554	555	543	646	711	525	361	318	309	483
MEDIAN	308	402	488	511	531	510	650	683	442	334	309	307	469

OAK3A

USGS # 14209805

NORTH FORK

River: CLACKAMAS

Drainage Area:

665 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

31.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1120	875	821	
1928-29	952	1730	2046	2106	1363	3032	3488	4604	3030	1215	872	776	2105
1929-30	747	706	3443	1510	5518	2372	2088	2443	1466	868	706	679	1856
1930-31	764	1176	1352	2196	1765	4469	5153	1740	1179	889	755	730	1846
1931-32	958	1943	2257	3252	2219	6132	4150	4126	2620	1151	851	741	2537
1932-33	1029	4282	2909	3406	2052	3142	3760	4476	<u>5833</u>	1856	1043	1152	2910
1933-34	1357	1828	8997	8068	2185	3183	2472	<u>1611</u>	1103	888	741	688	2609
1934-35	1441	3867	4188	2935	3068	2754	3325	3832	2216	1225	857	766	2535
1935-36	897	1245	1631	6667	2494	3191	4023	4023	1961	1125	877	853	2420
1936-37	746	<u>702</u>	1805	<u>999</u>	1866	3526	5733	5587	4347	1520	1007	919	2395
1937-38	1215	4904	5458	5186	2905	4246	4851	4063	1947	1122	915	854	3141
1938-39	906	1940	3055	2504	2987	3852	3661	2610	1752	1054	818	768	2153
1939-40	877	799	2788	1933	5591	4555	3405	2025	<u>1003</u>	<u>785</u>	694	733	2087
1940-41	939	2587	2542	2865	1814	<u>1656</u>	<u>1539</u>	2477	1419	833	714	972	1696
1941-42	1165	2418	5438	2142	3386	2266	2366	2705	1993	1098	795	669	2198
1942-43	731	5972	6564	4397	4995	3383	<u>6028</u>	3835	3275	1629	1143	974	3560
1943-44	1665	2089	2084	2047	2178	2183	2641	2321	1503	887	712	732	1751
1944-45	<u>701</u>	1206	1083	2761	4406	2800	3960	5384	1818	962	785	854	2212
1945-46	784	3632	5552	5214	3121	3565	3230	3878	2733	1350	951	833	2905
1946-47	1631	4500	7379	3342	3733	3217	3086	1720	1724	1152	941	870	2769
1947-48	<u>3776</u>	5056	3145	6255	4389	2775	3214	4328	3019	1383	1070	1037	3283
1948-49	1435	3388	4555	1481	4387	3791	5008	<u>7486</u>	3120	1460	1047	1020	3172
1949-50	1401	2526	3080	3509	5225	5393	4502	5044	5399	2055	1159	1032	3345
1950-51	3318	6225	5818	6026	5945	3264	4321	4160	1909	1192	1009	927	3661
1951-52	2665	2976	4131	1972	4079	2909	4382	4190	2610	1569	979	884	2773
1952-53	807	812	1553	<u>9656</u>	5994	3275	3092	4020	3122	1463	1062	933	2969
1953-54	1069	3521	7325	4634	5981	3361	4331	3649	3540	1726	1128	1078	3428
1954-55	1592	2034	2557	2572	2546	2307	3647	4584	5306	<u>2150</u>	1133	1058	2620
1955-56	2565	<u>6542</u>	8454	6644	2575	3461	4910	5322	3210	1348	999	874	3916
1956-57	1494	2260	3913	1686	3901	5995	4725	3499	1485	945	790	717	2611
1957-58	1049	1742	5783	5003	6169	2357	4422	2708	1638	1017	824	839	2775
1958-59	1008	4648	3939	5978	3033	3345	3612	3349	2098	1070	810	<u>1602</u>	2872
1959-60	2560	2348	2305	1783	4405	4554	4815	4297	2456	1050	914	1093	2706
1960-61	1179	5879	3195	3317	8613	5307	3561	3910	1820	1044	871	1008	3251
1961-62	1379	2598	4881	3316	2610	3125	5177	3979	1958	1043	876	831	2648
1962-63	1979	4291	4063	1878	4831	2505	3941	3796	1639	1203	854	825	2632
1963-64	1020	3985	2609	4943	3000	2767	3026	3632	3569	1388	944	818	2638
1964-65	823	2129	<u>11170</u>	6965	4723	2737	3225	2713	1503	1053	830	847	3229
1965-66	844	1681	1912	3733	1835	3924	4711	3825	1873	1074	792	790	2253
1966-67	1172	3373	4201	5694	3398	2484	1867	3086	1923	992	780	715	2472
1967-68	2292	1924	3610	3787	7065	2951	2368	2365	1573	892	1116	1166	2577
1968-69	2712	5552	5201	5007	2390	3241	4930	6396	3214	1492	1064	982	3523
1969-70	1373	1715	3900	8488	4629	3324	2822	3220	1676	975	808	993	2823
1970-71	1262	3997	3684	7431	4693	4249	4220	6137	4006	1797	1032	1242	3640
1971-72	1541	4124	4964	6912	6147	<u>8921</u>	4123	5285	2932	1431	1102	1177	4054
1972-73	1010	2155	5050	4066	1860	2210	2264	1796	1222	875	769	981	2027
1973-74	1265	6263	8504	8821	4296	4636	4672	5013	5143	2018	<u>1208</u>	1020	<u>4407</u>
1974-75	1115	1981	5197	6795	3992	3985	2488	4073	2703	1362	1018	1034	2980
1975-76	1921	3412	7118	6220	3176	2869	3695	4596	2408	1314	1041	960	3234
1976-77	1068	1268	<u>1030</u>	1036	<u>977</u>	2269	2859	2706	1601	820	718	1079	<u>1454</u>
1977-78	1484	5006	8854	3861	3330	2224	2169	2612	1375	888	977	1204	2832
1978-79	767	1633	3911	1841	5242	3923	3708	3395	1360	843	705	714	2318
1979-80	1483	1880	3592	6021	3356	3078	3704	2221	1776	914	701	811	2461
1980-81	878	2023	7040	2039	4420	2216	2972	2138	2958	1088	761	950	2443
1981-82	1235	2237	7516	4460	<u>8938</u>	3722	3444	3300	2246	1147	889	1015	3312
1982-83	1890	2744	5876	6279	5742	5404	3616	3043	1962	2012	1085	1107	3389
1983-84	900	4403	4112	4861	4130	4725	3690	4347	3522	1454	1017	1127	3186
1984-85	1737	6011	3454	2095	2423	2725	4630	3435	2879	969	829	933	2668
1985-86	1628	3319	2306	4282	7984	4680	2859	2732	1365	993	915	1084	2811
1986-87	987	4578	2467	2630	4010	3416	2702	1830	1143	801	<u>660</u>	<u>664</u>	2141
1987-88	739	806	4078	3715	3341	3783	4601	3296	2281	1005	741	738	2425
1988-89	725	3829	2794	3957	2347	4685	4428	2701	1534	902	788	747	2452
MEAN	1355	3052	4318	4150	3931	3547	3712	3634	2410	1209	901	920	2756
MEDIAN	1172	2587	3913	3787	3733	3275	3690	3649	1962	1109	876	902	2668

NFK3H

USGS # 14209805

NORTH FORK

River: CLACKAMAS

Drainage Area:

665 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

31.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	143	4	18	-36	32	1	-15	-18	11	10	-71	7
1959-60	23	26	-60	80	-24	35	-29	14	-51	46	-4	-46	1
1960-61	14	32	-72	76	1	3	14	-51	44	-1	5	-7	5
1961-62	-42	28	2	-24	-23	32	35	-39	31	3	-9	16	1
1962-63	-22	28	-29	-51	46	9	19	-1	6	-13	4	-1	-1
1963-64	-19	2	-20	52	-53	-7	15	19	13	-4	-10	14	0
1964-65	-11	18	-10	8	-11	-10	2	-73	91	-38	30	-50	-5
1965-66	26	-7	-54	72	10	6	-15	-2	10	4	-8	-2	3
1966-67	3	-2	-14	34	-27	-9	30	-24	14	7	-6	3	1
1967-68	-12	5	-14	4	25	-11	-4	3	5	0	0	0	0
1968-69	0	0	0	0	0	0	0	0	0	0	0	0	0
1969-70	0	0	0	0	0	0	0	0	0	0	0	0	0
1970-71	0	0	0	0	0	0	0	0	0	0	0	0	0
1971-72	0	0	0	0	0	0	0	0	0	0	0	0	0
1972-73	0	0	0	0	0	0	0	0	0	0	0	0	0
1973-74	0	0	0	0	0	0	0	0	0	0	0	0	0
1974-75	0	0	0	0	0	0	0	0	0	0	0	0	0
1975-76	0	0	0	0	0	0	0	0	0	0	0	0	0
1976-77	0	0	0	0	0	0	0	0	0	0	0	0	0
1977-78	0	0	0	0	0	0	0	0	0	0	0	0	0
1978-79	0	0	0	0	0	0	0	0	0	0	0	0	0
1979-80	0	0	0	0	0	0	0	0	0	0	0	0	0
1980-81	0	0	0	0	0	0	0	0	0	0	0	0	0
1981-82	0	0	0	0	0	0	0	0	0	0	0	0	0
1982-83	0	0	0	0	0	0	0	0	0	0	0	0	0
1983-84	0	0	0	0	0	0	0	0	0	0	0	0	0
1984-85	0	0	0	0	0	0	0	0	0	0	0	0	0
1985-86	0	0	0	0	0	0	0	0	0	0	0	0	0
1986-87	0	0	0	0	0	0	0	0	0	0	0	0	0
1987-88	0	0	0	0	0	0	0	0	0	0	0	0	0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	-4	27	-27	27	-9	8	7	-17	15	2	1	-16	1

NFK3S

USGS # 14209805

NORTH FORK

River: CLACKAMAS

Drainage Area:

665 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile:

31.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	117	200	106	72	53	46
1956-57	13	-148	40	-136	-99	184	190	162	60	27	14	4	27
1957-58	-78	-143	10	42	189	-41	169	29	-9	7	-2	-44	9
1958-59	-191	187	37	126	-53	-13	79	14	-23	13	12	-239	-4
1959-60	-42	-72	-114	-71	67	119	168	159	-30	53	-4	-247	-1
1960-61	-127	52	-133	93	279	105	16	-51	42	1	5	-57	17
1961-62	-154	-101	4	28	-80	52	231	35	31	3	-9	11	4
1962-63	-29	38	-29	-183	175	25	19	-1	6	-13	4	-1	-1
1963-64	-28	0	-153	7	-130	-110	95	175	149	-4	-10	14	0
1964-65	-14	-18	21	19	-16	-12	4	-75	94	-38	17	-39	-5
1965-66	28	-63	-243	44	19	72	148	36	21	34	-3	-35	5
1966-67	-136	-112	9	105	-4	-15	45	75	66	10	-6	3	3
1967-68	-19	-46	-138	-45	180	27	-25	57	-4	23	-5	-26	-2
1968-69	-53	39	-20	-69	-208	-43	178	192	2	0	-25	-9	0
1969-70	-31	-145	-89	110	113	35	0	22	0	25	-7	-88	-5
1970-71	-85	-43	-63	115	109	-84	85	24	2	5	-5	-23	2
1971-72	-103	-106	175	-47	34	33	14	18	2	0	0	-2	2
1972-73	-35	-101	8	-35	-25	87	71	29	26	11	0	-12	2
1973-74	-121	2	96	-11	-80	-139	83	107	41	32	7	-17	0
1974-75	-178	-136	72	170	17	-41	-49	102	40	12	5	-126	-9
1975-76	-131	-2	201	0	-2	-72	0	131	0	0	0	-56	6
1976-77	-154	-220	2	50	45	16	73	64	24	8	7	-48	-11
1977-78	-162	-37	319	-62	-52	-51	103	70	34	15	-75	17	10
1978-79	-134	-269	-80	-21	76	134	160	163	53	25	15	-26	8
1979-80	-169	-262	18	82	-53	48	177	132	62	25	12	-47	3
1980-81	-168	-44	51	35	21	-54	92	63	63	20	7	-169	-7
1981-82	25	-103	155	1	95	-80	-51	107	24	-1	-2	-5	14
1982-83	-115	-76	70	68	46	8	0	-18	24	3	2	-150	-12
1983-84	0	-16	-15	72	-30	22	47	48	14	2	-18	-126	0
1984-85	-42	102	-64	-163	-23	-72	217	132	24	31	-31	-28	7
1985-86	-65	-118	-93	36	142	78	2	66	8	13	-90	-40	-6
1986-87	10	-49	-156	56	98	111	43	26	4	0	0	-63	6
1987-88	-156	-22	-47	-117	84	145	205	-19	-7	7	-1	-32	3
1988-89	-81	-34	-125	0	12	80	170	0	9	-6	-3	-66	-4
MEAN	-83	-63	-8	9	29	17	84	66	31	13	-3	-51	3

NFK3SS

USGS # 14209805

NORTH FORK

River: CLACKAMAS

Drainage Area:

665 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

31.1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1120	875	821	
1928-29	952	1730	2046	2106	1363	3032	3488	4604	3030	1215	872	776	2105
1929-30	747	706	3443	1510	5518	2372	2088	2443	1466	868	706	679	1856
1930-31	764	1176	1352	2196	1765	4469	5153	1740	1179	889	755	730	1846
1931-32	958	1943	2257	3252	2219	6132	4150	4126	2620	1151	851	741	2537
1932-33	1029	4282	2909	3406	2052	3142	3760	4476	<u>5833</u>	1856	1043	1152	2910
1933-34	1357	1828	8997	6068	2185	3183	2472	<u>1611</u>	1103	888	741	688	2609
1934-35	1441	3867	4188	2935	3068	2754	3325	3832	2216	1225	857	766	2535
1935-36	897	1245	1631	6667	2494	3191	4023	4023	1961	1125	877	853	2420
1936-37	746	<u>702</u>	1805	<u>999</u>	1866	3526	5733	5587	4347	1520	1007	919	2395
1937-38	1215	4904	5458	5186	2905	4246	4851	4063	1947	1122	915	854	3141
1938-39	906	1940	3055	2504	2987	3852	3661	2610	1752	1054	818	768	2153
1939-40	877	799	2788	1933	5591	4555	3405	2025	<u>1003</u>	<u>785</u>	694	733	2087
1940-41	939	2587	2542	2865	1814	<u>1656</u>	<u>1539</u>	2477	1419	833	714	972	1696
1941-42	1165	2418	5438	2142	3386	2266	2366	2705	1993	1098	795	669	2198
1942-43	731	5972	6564	4397	4995	3383	<u>6028</u>	3835	3275	1629	1143	974	3560
1943-44	1665	2089	2084	2047	2178	2183	2641	2321	1503	887	712	732	1751
1944-45	701	1206	1083	2761	4406	2800	3960	5384	1818	962	785	854	2212
1945-46	784	3632	5552	5214	3121	3565	3230	3878	2733	1350	951	833	2905
1946-47	1631	4500	7379	3342	3733	3217	3086	1720	1724	1152	941	870	2769
1947-48	<u>3776</u>	5056	3145	6255	4389	2775	3214	4328	3019	1383	1070	1037	3283
1948-49	1435	3388	4555	1481	4387	3791	5008	<u>7486</u>	3120	1460	1047	1020	3172
1949-50	1401	2526	3080	3509	5225	5393	4502	<u>5044</u>	5399	2055	1159	1032	3345
1950-51	3318	6225	5818	6026	5945	3264	4321	4160	1909	1192	1009	927	3661
1951-52	2665	2976	4131	1972	4079	2909	4382	4190	2610	1569	979	884	2773
1952-53	807	812	1553	<u>9656</u>	5994	3275	3092	4020	3122	1463	1062	933	2969
1953-54	1069	3521	7325	4634	5981	3361	4331	3649	3540	1726	1128	1078	3428
1954-55	1592	2034	2557	2572	2546	2307	3647	4584	5306	<u>2150</u>	1133	1058	2620
1955-56	2565	<u>6542</u>	8454	6644	2575	3461	4910	5439	3410	1454	1071	928	3962
1956-57	1507	2112	3953	1550	3803	6179	4915	3661	1546	972	805	721	2637
1957-58	971	1598	5793	5045	6359	2315	4591	2737	1629	1024	822	795	2785
1958-59	817	4835	3976	6104	2980	3332	3691	3363	2075	1083	822	<u>1363</u>	2868
1959-60	2518	2276	2192	1712	4472	4673	4982	4456	2426	1103	910	847	2705
1960-61	1052	5731	3061	3410	8892	5412	3577	3859	1861	1045	876	951	3268
1961-62	1225	2496	4885	3344	2530	3177	5408	4015	1989	1046	867	842	2653
1962-63	1950	4329	4034	1696	5005	2530	3960	3795	1645	1190	858	824	2631
1963-64	992	3985	2456	4950	2870	2657	3121	3807	3719	1384	934	832	2638
1964-65	809	2111	<u>11190</u>	6984	4707	2725	3229	2638	1597	1015	847	808	3224
1965-66	872	1618	1669	3777	1854	3996	4859	3861	1894	1108	789	755	2257
1966-67	1036	3261	4210	5799	3394	2469	1912	3161	1989	1002	774	718	2475
1967-68	2273	1878	3472	3742	7245	2978	2343	2422	1569	915	1111	1140	2575
1968-69	2659	5591	5181	4938	2182	3198	5108	6588	3216	1492	1039	973	3522
1969-70	1342	1570	3811	8598	4742	3359	2822	3242	1676	1000	801	905	2818
1970-71	1177	3954	3621	7546	4802	4165	4305	6161	4008	1802	1027	1219	3643
1971-72	1438	4018	5139	6865	6181	<u>8954</u>	4137	5303	2934	1431	1102	1175	4056
1972-73	975	2054	5058	4031	1835	2297	2335	1825	1248	886	769	969	2029
1973-74	1144	6265	8600	8810	4216	4497	4755	5120	5184	2050	<u>1215</u>	1003	<u>4408</u>
1974-75	937	1845	5269	6965	4009	3944	2439	4175	2743	1374	1023	908	2971
1975-76	1790	3410	7319	6220	3174	2797	3695	4727	2408	1314	1041	904	3240
1976-77	914	1048	<u>1032</u>	1086	<u>1022</u>	2285	2932	2770	1625	828	725	1031	<u>1443</u>
1977-78	1322	4969	9173	3799	3278	2173	2272	2682	1409	903	902	1221	2842
1978-79	633	1364	3831	1820	5318	4057	3868	3558	1413	868	720	688	2326
1979-80	1314	1618	3609	6104	3304	3126	3881	2354	1837	940	713	765	2464
1980-81	710	1978	7091	2074	4440	2161	3064	2201	3021	1108	768	781	2436
1981-82	1260	2134	7671	4461	<u>9033</u>	3642	3393	3407	2270	1147	887	1011	3326
1982-83	1775	2668	5946	6347	5788	5412	3616	3025	1986	2015	1086	957	3377
1983-84	900	4387	4097	4933	4100	4747	3737	4395	3535	1456	998	1001	3186
1984-85	1695	6113	3390	1931	2400	2653	4847	3567	2903	1000	798	905	2675
1985-86	1563	3201	2213	4318	8125	4758	2861	2798	1373	1006	825	1044	2805
1986-87	997	4529	2311	2687	4108	3528	2745	1856	1147	801	<u>660</u>	<u>601</u>	2147
1987-88	<u>584</u>	784	4031	3597	3425	3928	4806	3278	2274	1012	740	706	2428
1988-89	644	3795	2669	3957	2359	4765	4598	2701	1543	896	784	681	2448
MEAN	1310	3019	4314	4155	3946	3557	3757	3670	2427	1216	899	892	2757
MEDIAN	1069	2526	3953	3777	3733	3275	3695	3795	1989	1114	874	877	2675

NFK3A

WESTERN WASHINGTON

LEWIS RIVER, WASHINGTON

COWLITZ RIVER, WASHINGTON

PUGET SOUND DRAINAGE, WASHINGTON

SWIFT NO. 1 & 2

YALE

MERWIN

PACKWOOD LAKE

MOSSYROCK

MAYFIELD

CUSHMAN NO. 1 & 2

ALDER

LA GRANDE

WHITE RIVER

ROSS

DIABLO

GORGE

UPPER BAKER

LOWER BAKER

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USGS # 14217610 **SWIFT 1**
 Monthly mean storage change, at site, in cfs.

River: LEWIS

Drainage Area: 480 Sq. Mi.
 River Mile: 47.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	0	0	0	0
1968-69	0	0	0	0	0	0	0	0	0	0	0	0	0
1969-70	0	0	0	0	0	0	0	0	0	0	0	0	0
1970-71	0	0	0	0	0	0	0	0	0	0	0	0	0
1971-72	0	0	0	0	0	0	0	0	0	0	0	0	0
1972-73	0	0	0	0	0	0	0	0	0	0	0	0	0
1973-74	0	0	0	0	0	0	0	0	0	0	0	0	0
1974-75	0	0	0	0	0	0	0	0	0	0	0	0	0
1975-76	0	0	0	0	0	0	0	0	0	0	0	0	0
1976-77	0	0	0	0	0	0	0	0	0	0	0	0	0
1977-78	0	0	0	0	0	0	0	0	0	-76	-156	-322	-46
1978-79	-45	-2362	-2550	-385	2545	1136	1817	481	165	-301	-837	1010	35
1979-80	-802	-4249	3463	-1235	-55	950	173	-1594	-77	-77	-20	83	-280
1980-81	254	1183	1458	-1235	674	-323	307	-83	104	26	-3	248	211
1981-82	-396	-292	-1010	-1123	2723	-653	-475	1746	424	165	104	-780	17
1982-83	-807	-1278	523	590	372	-23	-75	1229	69	132	-68	-1756	-87
1983-84	-1128	1988	-1889	198	1428	147	23	700	452	-96	84	-1093	57
1984-85	-2130	2520	-3324	-776	420	2095	1749	228	496	-31	-97	-873	9
1985-86	162	-1933	-1414	2626	886	-178	182	384	-82	172	-325	457	76
1986-87	-2385	1613	-780	-869	524	870	52	1019	-6	63	-282	41	-21
1987-88	-1035	-1784	635	768	1075	-214	202	508	132	-19	-126	-1009	-72
1988-89	-70	627	-485	-344	-1398	1413	692	173	404	-18	-131	-575	33
MEAN	-762	-361	-488	-162	836	475	423	436	189	-5	-155	-381	-6

SWF3S

USGS # 14217610

SWIFT 1

River: LEWIS

Drainage Area:

480 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

47.9

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1360	905	714	
1928-29	1180	2160	2440	1670	<u>998</u>	2320	3489	4810	3420	1310	846	673	2115
1929-30	581	<u>523</u>	2120	1460	5750	2690	3450	2480	1550	873	705	608	1872
1930-31	650	856	1100	2700	2940	4330	5020	3000	1480	1050	715	657	2035
1931-32	1140	2490	2690	3270	2730	6180	5500	5640	4630	2240	1130	857	3209
1932-33	1010	5830	3620	3750	1630	3390	3930	5580	<u>7580</u>	3570	1510	1460	3575
1933-34	2761	3243	<u>13390</u>	8541	3431	4632	3217	<u>1885</u>	<u>1161</u>	931	761	693	3741
1934-35	2257	6793	4840	3813	3689	2866	3173	5128	3852	1631	949	809	3310
1935-36	739	944	1826	5256	1933	3092	3814	5521	3770	1585	984	827	2530
1936-37	671	596	2603	1259	1275	3180	5536	5019	5245	1970	1023	820	2436
1937-38	859	5636	5655	4643	2153	3007	5037	4868	2962	1319	876	709	3147
1938-39	860	1630	3104	3704	2389	2779	3720	3570	2135	1179	853	766	2224
1939-40	765	809	5073	3058	5389	5291	3495	2955	1253	872	731	679	2526
1940-41	842	1795	3276	3169	2315	2042	<u>1993</u>	2378	1367	911	764	1236	1839
1941-42	1713	2520	6099	1898	2688	2026	2817	2545	2550	1272	861	706	2307
1942-43	706	5042	4357	2629	2808	3456	<u>6612</u>	4150	3731	1899	1050	826	3098
1943-44	1205	1731	2388	2284	2563	1970	2791	2919	1743	869	681	654	1813
1944-45	637	1824	1955	4086	4441	3004	2940	5581	2589	1180	791	898	2483
1945-46	784	2985	4882	3935	2653	3488	3938	5729	4828	2993	1200	886	3197
1946-47	1336	4343	8258	2936	4688	3466	3789	2636	1774	1133	875	989	3008
1947-48	<u>4290</u>	4346	3427	4487	3119	2766	3590	5512	4396	1685	1093	991	3309
1948-49	1364	2940	2979	1183	2825	3764	4722	7093	4004	1990	1079	954	2906
1949-50	1156	4257	3442	3317	4637	5889	4970	5569	6287	3166	1427	1053	3753
1950-51	3122	6077	7710	4056	6515	2323	4560	5115	2898	1459	996	923	3793
1951-52	3658	3420	4059	1611	4079	2216	4742	5141	3097	1579	960	779	2938
1952-53	648	648	1323	<u>10460</u>	5392	2535	3179	4934	3805	2300	1172	882	3098
1953-54	1154	3404	6477	3774	5029	3623	4718	5166	4742	2958	1364	1048	3611
1954-55	1310	3451	2951	2500	2971	<u>1593</u>	3062	4335	6106	2945	1315	1092	2794
1955-56	3753	<u>7078</u>	7115	5106	2236	3847	5457	<u>7205</u>	5887	3202	1576	1038	4466
1956-57	1843	2836	4935	1805	2715	4715	4213	4687	2077	1122	905	733	2718
1957-58	885	1740	3948	4478	6820	2610	4934	4104	2287	1222	906	777	2865
1958-59	944	5943	5009	6584	2446	2775	4252	3882	3260	1377	855	<u>1498</u>	3236
1959-60	3269	3736	3414	2010	4804	3377	4912	4701	3358	1315	958	798	3043
1960-61	1076	6067	3191	5298	8945	5103	3824	4606	3068	1253	885	777	3634
1961-62	1185	2172	5108	3781	2872	2125	4679	3701	2521	1175	890	814	2583
1962-63	2115	5952	4167	2619	4748	2285	4277	3562	1558	980	746	672	2787
1963-64	1018	4790	3349	4760	2994	2402	2970	4106	4719	2254	1367	986	2972
1964-65	1105	2839	7862	4582	4122	2885	4680	3946	2555	1156	889	671	3104
1965-66	723	1689	2257	3074	1910	3909	4986	5359	3172	1834	926	741	2552
1966-67	939	2428	6617	5570	3592	2907	2356	4413	4010	1448	843	699	2987
1967-68	2321	2832	3190	4244	8857	4446	2791	2921	3304	1175	1264	1431	3208
1968-69	2866	5363	4130	3983	1621	2203	4857	6871	3531	1343	873	1078	3234
1969-70	1727	2416	3717	7782	4604	3608	2912	3235	2245	960	708	699	2879
1970-71	1053	3427	4121	5829	4593	3047	4051	6917	5402	<u>3649</u>	1507	1208	3729
1971-72	1426	2990	3155	5469	6978	<u>9748</u>	4186	6664	4582	2234	1187	1413	4163
1972-73	1013	2382	6795	4282	1878	2597	2332	2547	1591	1002	710	823	2339
1973-74	1250	5589	7013	8815	3942	4118	4906	5319	7230	3627	<u>1593</u>	987	<u>4536</u>
1974-75	827	2393	5415	6271	3588	3500	2244	4826	3751	1840	1067	877	3054
1975-76	1781	4808	9252	5433	3193	2362	3465	5657	3146	1987	1229	900	3609
1976-77	811	905	<u>1001</u>	1128	1338	2491	3216	2837	2357	831	740	1134	<u>1564</u>
1977-78	1244	6172	10410	3987	3507	2933	3274	3681	2102	1123	881	1105	3369
1978-79	794	1248	2269	<u>1113</u>	4202	4624	3022	4148	1583	987	714	780	2112
1979-80	1199	1395	6127	3632	4298	3140	5149	2836	1539	981	711	678	2636
1980-81	613	3175	8197	2303	5962	1984	3346	2257	2787	1269	798	721	2761
1981-82	1837	3400	5539	3805	<u>9248</u>	4319	3872	4745	3273	1413	898	844	3544
1982-83	1469	2916	5674	6364	5628	6371	3700	3679	2507	2199	1196	1089	3560
1983-84	825	7071	3034	5104	3547	4479	3242	4296	3218	1495	890	1251	3197
1984-85	1012	4486	1997	1237	1369	2220	4987	4389	3714	1092	815	801	2339
1985-86	1614	2971	1618	4326	5760	4661	2531	2673	1445	838	<u>621</u>	681	2458
1986-87	728	4188	2394	2675	4560	5730	3380	2797	1404	<u>821</u>	648	<u>547</u>	2474
1987-88	<u>456</u>	653	4135	2465	2957	3880	5199	3494	2192	1077	686	622	2316
1988-89	597	4585	2780	3282	1835	4531	5218	3550	2138	1054	805	636	2584
MEAN	1372	3327	4442	3909	3815	3506	3954	4326	3221	1606	966	882	2939
MEDIAN	1105	2985	3948	3774	3507	3140	3824	4335	3097	1317	890	822	2972

SWF3A

USGS # 14218510

YALE

River: LEWIS

Drainage Area:

596 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

34.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	0	0	0	0
1968-69	0	0	0	0	0	0	0	0	0	0	0	0	0
1969-70	0	0	0	0	0	0	0	0	0	0	0	0	0
1970-71	0	0	0	0	0	0	0	0	0	0	0	0	0
1971-72	0	0	0	0	0	0	0	0	0	0	0	0	0
1972-73	0	0	0	0	0	0	0	0	0	0	0	0	0
1973-74	0	0	0	0	0	0	0	0	0	0	0	0	0
1974-75	0	0	0	0	0	0	0	0	0	0	0	0	0
1975-76	0	0	0	0	0	0	0	0	0	0	0	0	0
1976-77	0	0	0	0	0	0	0	0	0	0	0	0	0
1977-78	0	0	0	0	0	0	0	0	0	-36	-102	-993	-93
1978-79	-450	622	483	-1219	689	54	-175	1113	152	-288	115	-774	22
1979-80	117	-211	-211	194	-28	-290	1100	49	-146	40	94	-1	58
1980-81	-107	-1179	1363	-602	442	201	135	-39	-41	18	68	-1877	-133
1981-82	595	127	745	-327	379	-933	448	-334	1159	13	-202	-526	91
1982-83	204	230	-540	167	127	-362	-633	639	798	93	-86	-1382	-62
1983-84	211	1081	-1033	323	-72	584	229	150	29	-36	-161	-1051	21
1984-85	644	328	-779	256	779	-574	649	-14	-10	-149	27	-1063	2
1985-86	369	178	-184	-120	517	-123	594	-68	117	-258	71	-956	7
1986-87	59	598	-511	-8	-148	152	-111	742	87	-27	46	-885	2
1987-88	-88	-73	143	160	-39	910	-165	232	-14	-20	-153	-340	49
1988-89	-92	568	-1162	333	168	21	285	448	-32	-104	-137	-713	-37
MEAN	133	206	-153	-77	256	-33	214	265	191	-63	-35	-880	-6

YAL3S

USGS # 14218510

YALE

River: LEWIS

Drainage Area:

596 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile:

34.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	0	0	0	0
1968-69	0	0	0	0	0	0	0	0	0	0	0	0	0
1969-70	0	0	0	0	0	0	0	0	0	0	0	0	0
1970-71	0	0	0	0	0	0	0	0	0	0	0	0	0
1971-72	0	0	0	0	0	0	0	0	0	0	0	0	0
1972-73	0	0	0	0	0	0	0	0	0	0	0	0	0
1973-74	0	0	0	0	0	0	0	0	0	0	0	0	0
1974-75	0	0	0	0	0	0	0	0	0	0	0	0	0
1975-76	0	0	0	0	0	0	0	0	0	0	0	0	0
1976-77	0	0	0	0	0	0	0	0	0	0	0	0	0
1977-78	0	0	0	0	0	0	0	0	0	-112	-258	-1315	-139
1978-79	-496	-1740	-2067	-1605	3234	1190	1642	1594	317	-588	-722	236	57
1979-80	-685	-4460	3252	-1042	-84	660	1273	-1545	-223	-38	73	82	-222
1980-81	147	4	2820	-1837	1116	-122	443	-122	63	44	65	-1629	78
1981-82	199	-165	-265	-1450	3102	-1586	-28	1412	1583	178	-98	-1307	108
1982-83	-803	-1048	-17	758	499	-385	-708	1867	867	225	-154	-3138	-149
1983-84	-917	3069	-2923	522	1356	731	252	850	481	-132	-77	-2144	79
1984-85	-1487	2848	-4103	-520	1199	1521	2399	214	486	-180	-70	-1936	11
1985-86	532	-1755	-1597	2506	1403	-301	776	316	34	-86	-254	-499	84
1986-87	-2326	2211	-1291	-876	377	1022	-60	1781	81	35	-236	-844	-19
1987-88	-1123	-1856	779	927	1036	696	37	740	118	-39	-279	-1350	-24
1988-89	-161	1195	-1647	-11	-1230	1434	976	621	372	-122	-268	-1288	-4
MEAN	-629	-154	-642	-239	1092	442	637	701	380	-68	-190	-1261	-12

YAL3SS

USGS # 14218510

YALE

River: LEWIS

Drainage Area:

596 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

34.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1635	1026	837	
1928-29	1788	3226	3599	2637	<u>1555</u>	3732	4903	5802	3978	1569	970	750	2883
1929-30	741	784	3496	2249	8456	3908	4263	3415	2110	1091	820	717	2631
1930-31	848	1491	1935	4310	4582	6538	6886	3390	1910	1323	832	794	2891
1931-32	1723	4045	3965	4961	4338	9469	7393	6837	5174	2369	1285	992	4379
1932-33	1362	8518	5483	5991	2511	5344	5259	7428	<u>9543</u>	<u>4154</u>	1714	1988	4946
1933-34	4111	4481	<u>20400</u>	12790	4335	6160	3978	<u>2431</u>	<u>1372</u>	1094	900	842	5277
1934-35	3385	9503	6712	5397	5032	3948	4078	5971	4128	1894	1087	992	4333
1935-36	1004	1585	2728	8257	2970	4390	4690	6677	4576	1999	1170	921	3421
1936-37	841	809	4288	1606	2214	5195	7921	6396	6903	2320	1177	974	3388
1937-38	1149	8943	8216	6653	3143	4689	6755	5859	3367	1551	1059	905	4360
1938-39	1147	2826	4539	5547	3970	4102	4704	4231	2625	1519	1031	907	3092
1939-40	1012	1152	6916	3849	8023	7002	4431	3754	1477	<u>1000</u>	895	858	3354
1940-41	1277	3245	4729	4708	3136	2707	<u>2408</u>	2951	1714	1022	869	1967	2559
1941-42	2527	3685	8393	2629	3982	2798	3471	3390	3390	1574	1076	806	3140
1942-43	942	7605	6453	3738	4676	4792	<u>8416</u>	4982	4369	2136	1161	933	4167
1943-44	1672	2408	3424	3273	3573	2738	3767	3535	2211	1052	797	818	2434
1944-45	874	2878	2823	6284	6536	4578	4147	7794	3033	1348	914	1200	3517
1945-46	1021	5028	6573	6431	4356	5197	5111	6601	5443	3475	1361	1029	4303
1946-47	2016	6486	11600	4488	6508	4580	5000	3091	2220	1375	1000	1195	4115
1947-48	<u>6021</u>	6450	4607	6378	4722	3808	4819	7149	5091	1902	1189	1172	4441
1948-49	1829	4612	4690	1607	4754	5433	6065	<u>8903</u>	4564	2223	1166	1062	3900
1949-50	1680	6217	5264	5336	7080	8765	6954	7148	7514	3682	1660	1264	5195
1950-51	4314	8445	9984	6222	8738	3307	5640	6167	3401	1688	1128	1105	4985
1951-52	5487	4873	5882	2423	5982	3373	6120	6357	3633	1864	1103	942	3994
1952-53	722	<u>783</u>	2427	<u>14400</u>	7242	3462	3844	5715	4195	2483	1196	998	3945
1953-54	1422	4820	9060	5350	7301	4391	5780	5470	5269	3190	1525	1167	4543
1954-55	1708	4819	4464	3673	4397	<u>2357</u>	4583	5472	7116	3398	1491	1315	3719
1955-56	5590	<u>10270</u>	10050	7244	2907	5850	6952	8263	6236	3447	1709	1204	5822
1956-57	2820	3940	7430	2425	4177	7010	6159	5245	2447	1299	1015	807	3732
1957-58	1090	2897	6676	6955	9016	3589	6394	4575	2510	1281	906	816	3858
1958-59	1269	9155	7357	9212	3669	4268	5822	4779	3914	1612	1016	<u>2240</u>	4508
1959-60	4802	5340	4889	2934	6933	4772	6777	6209	3904	1543	1168	1069	4179
1960-61	1734	9076	4505	7247	<u>12600</u>	7347	5063	5648	3402	1418	1038	934	4943
1961-62	1891	3355	7057	5211	4044	3281	6265	4608	2877	1370	1089	1019	3503
1962-63	2860	8768	5602	3410	6401	3278	5926	4515	1837	1213	892	788	3764
1963-64	1447	6896	4484	7281	4084	3674	4134	5118	5525	2513	1640	1258	3999
1964-65	1532	4373	10790	6980	5642	3584	5578	4497	2785	1272	978	759	4059
1965-66	878	2408	3078	5014	2902	5740	6298	6111	3486	2183	1052	854	3338
1966-67	1396	3548	8783	8254	4919	3942	3196	5232	4397	1575	919	769	3913
1967-68	3285	3638	4967	5834	11550	5645	3561	3384	4006	1347	1692	1964	4210
1968-69	3986	7153	5943	5553	2350	3371	6350	7924	4032	1633	1009	1494	4243
1969-70	2597	3258	5167	10840	6221	4447	3847	3908	2436	1076	803	872	3782
1970-71	1666	4919	5917	8991	6168	4549	5334	7957	6212	3954	1633	1476	4892
1971-72	2031	4500	4790	8182	9845	<u>12130</u>	5538	7531	4847	2432	1320	1800	5402
1972-73	1272	3365	9202	5571	2453	3619	2988	3091	2074	1270	836	1079	3081
1973-74	1826	8209	9879	11900	5773	6038	6616	6436	7921	3986	<u>1770</u>	1123	<u>5958</u>
1974-75	951	3422	7606	9134	4911	4707	3029	5834	4124	2062	1299	1116	4021
1975-76	2717	6597	12480	7838	4523	3460	4635	6500	3583	2177	1417	1059	4759
1976-77	995	1237	<u>1460</u>	1528	1961	4020	4012	3684	3060	1020	950	1713	<u>2134</u>
1977-78	1754	8570	13390	5307	4637	3624	4428	4667	2474	1364	1076	1480	4397
1978-79	960	2029	3505	<u>1527</u>	6550	6319	4116	4882	1819	1161	855	1020	2872
1979-80	1634	1884	8512	5198	5740	4250	6359	3248	1869	1176	835	828	3456
1980-81	723	4574	10710	3018	7542	2707	4847	2877	3632	1434	911	881	3625
1981-82	2494	4593	7598	5561	12130	5533	4957	5267	3479	1542	1015	1009	4548
1982-83	2010	4148	7760	8967	7755	7844	4654	4189	2988	2983	1410	1371	4663
1983-84	1039	9693	4411	7129	5053	6141	4441	5566	3936	1829	1060	1052	4269
1984-85	1544	6607	3154	1793	2118	3229	6492	5121	4494	1284	937	1159	3153
1985-86	2469	4373	2417	6204	7875	5785	3342	3561	1709	1025	<u>771</u>	928	3343
1986-87	1070	6241	3504	4169	6398	7645	4111	3217	1719	1006	791	<u>679</u>	3356
1987-88	<u>588</u>	948	5663	3643	4237	5217	6524	4360	2733	1280	827	747	3061
1988-89	790	6750	3885	5185	2766	6476	6488	4058	2415	1206	932	735	3471
MEAN	1940	4860	6316	5679	5409	4916	5187	5229	3757	1853	1116	1090	3938
MEDIAN	1634	4500	5602	5397	4754	4549	5000	5232	3486	1560	1045	1004	3945

YAL3A

USGS # 14220010

AERIAL (MERWIN)

River: LEWIS

Drainage Area:

730 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

19.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1788	1075	933	
1928-29	2337	3964	4659	3445	1942	4975	6184	6726	4420	1723	1040	807	3528
1929-30	815	<u>838</u>	4503	<u>2763</u>	11280	4603	4716	3846	2331	1173	879	<u>770</u>	3155
1930-31	933	1790	2306	5266	4769	7014	8922	1984	<u>183</u>	<u>121</u>	<u>200</u>	794	2840
1931-32	1944	5222	5016	6491	5951	12330	8666	7280	5570	2571	1759	1966	5395
1932-33	2141	8760	7506	8161	3538	7161	6266	8530	<u>10330</u>	<u>4306</u>	1830	2294	5910
1933-34	5448	5221	<u>28350</u>	<u>16730</u>	4838	7139	4244	2842	1746	1245	1813	2579	6903
1934-35	1865	11180	8529	6686	6047	4753	4679	6148	4107	2093	1698	2544	5012
1935-36	2881	2134	3125	8200	3911	5444	5212	7112	4837	2134	1787	2372	4102
1936-37	2729	1063	2526	3206	3022	3929	<u>10200</u>	7447	7691	2461	1805	2547	4030
1937-38	2532	9062	10920	8333	3991	6347	8170	6207	3254	1583	1587	2058	5345
1938-39	2558	2869	4691	7192	5550	5167	5374	4371	2968	1834	1440	2081	3833
1939-40	2427	2390	5177	4599	10070	8427	4837	4305	1564	901	1041	1281	3900
1940-41	2247	3415	5378	5614	3459	2797	2362	3319	1900	1118	1163	2948	2976
1941-42	3145	4145	10710	3501	4980	3565	3454	3880	3986	1682	1211	1178	3783
1942-43	1553	8982	8694	4822	6381	6014	9726	5208	4522	2271	1329	1875	5092
1943-44	2144	3587	3477	3610	4582	3666	3747	3734	2598	1031	847	1382	2858
1944-45	2083	3373	3062	6517	7698	5308	5192	8241	3150	1398	991	1388	4012
1945-46	1682	6449	8999	8872	6052	6661	5986	7036	5588	3754	1415	1165	5304
1946-47	2473	8206	15070	5863	7949	5367	5937	3246	2371	1554	1017	1479	5026
1947-48	<u>7319</u>	8127	5835	8045	6060	4617	5806	8032	5215	1990	1223	1347	5299
1948-49	2203	5982	6766	2806	5488	6819	7110	<u>9591</u>	4686	2294	1184	1123	4664
1949-50	2079	7698	7243	7295	9369	11200	8774	7866	8007	3928	1838	1334	6361
1950-51	5223	10100	11930	8283	10550	4773	5427	6615	3573	1687	1242	1503	5879
1951-52	6846	6250	8160	3456	7909	5160	4913	6931	3822	1938	757	792	4736
1952-53	<u>696</u>	920	<u>704</u>	16630	11060	5562	4390	4156	5156	2748	1526	2597	4641
1953-54	3807	4504	11750	8442	8068	7239	6841	5735	5942	3896	1646	1450	5770
1954-55	4286	4781	5715	6050	5266	3107	5671	4547	7714	4211	1464	2449	4594
1955-56	6187	<u>12470</u>	12370	9932	6556	6342	7134	9008	7090	3911	1704	2049	7065
1956-57	4198	6707	7323	5375	4174	8346	7372	5028	2644	1232	1087	969	4542
1957-58	2462	5030	7028	8980	10780	6585	6308	5140	3105	1281	852	1012	4843
1958-59	2000	5944	3645	9463	6807	4715	5501	6186	4672	1615	1032	3258	4548
1959-60	6555	6641	7543	5984	6887	5774	6944	7547	4812	1884	893	4106	5455
1960-61	2440	9276	7471	7398	<u>15940</u>	9245	6089	6773	3707	1385	1056	2487	6032
1961-62	2721	5717	8408	7845	5989	6073	2941	4687	3208	1440	1114	1433	4295
1962-63	3745	10580	8085	7507	4158	4234	7047	4758	1944	1510	976	958	4624
1963-64	2944	9035	7970	9224	8728	8237	3758	2661	3203	2817	1988	1613	5171
1964-65	3082	7575	13220	10060	7087	4983	4139	4431	3187	1178	1050	1635	5130
1965-66	1018	4195	7088	7778	6386	7033	5124	3546	3454	2040	1801	982	4194
1966-67	2575	5185	11280	10590	9145	8275	5578	3254	808	806	791	983	4924
1967-68	4610	7611	7290	7511	11490	6416	5928	2033	5112	1301	<u>2050</u>	2505	5288
1968-69	6369	9425	9146	9781	5394	3074	3995	7829	4814	2088	1065	1769	5400
1969-70	5515	5914	7082	11290	8495	8620	4874	2725	794	780	772	847	4798
1970-71	3083	6528	9525	10940	9819	8030	6413	4224	6543	4082	1794	3520	6184
1971-72	3408	6370	9179	9770	10240	<u>15310</u>	5698	8630	5429	2290	1317	2360	6666
1972-73	3991	4605	9223	9721	6044	2341	2201	<u>1246</u>	1712	2271	834	838	3749
1973-74	2919	10630	13350	14850	10380	8097	7112	6396	8936	4086	1755	1346	<u>7470</u>
1974-75	3437	5078	8996	11460	8779	8748	3239	2287	3443	2013	1444	2752	5126
1975-76	3824	8774	15570	10830	8471	7439	3379	2915	3328	1929	1437	2095	5834
1976-77	4012	3770	2477	5105	<u>795</u>	<u>832</u>	<u>1419</u>	3735	3687	1076	1196	2946	<u>2598</u>
1977-78	3012	10030	18730	9161	7009	3258	1787	3995	2730	1555	1696	3189	5512
1978-79	1583	4248	6819	3639	5339	5890	3212	3790	1736	1817	1049	1801	3402
1979-80	2691	6852	7831	8049	7072	4578	6314	5117	2493	1151	896	886	4484
1980-81	827	5650	10710	5102	8714	2993	5702	3237	4639	1618	934	2841	4375
1981-82	2692	6188	9824	9161	11810	8401	5925	4290	2026	1616	1365	2689	5462
1982-83	3235	6368	9985	10800	9102	9902	6108	2906	2545	3200	1855	<u>4939</u>	5896
1983-84	2315	9329	8540	8252	5012	7162	4880	5742	4057	2165	1201	3718	5196
1984-85	3516	6231	8487	2835	1459	2563	5112	5515	4802	1544	1170	3351	3891
1985-86	2569	7779	4757	5322	8843	6753	2946	3892	1931	1265	1161	1753	4047
1986-87	3501	6202	5715	6462	7807	8421	4804	1985	1793	1148	1141	1557	4189
1987-88	1730	3090	6274	3759	4181	6152	7346	4454	2902	1517	1215	2407	3748
1988-89	2632	6467	5628	7151	4971	6767	6066	3596	2210	1613	1261	2177	4205
MEAN	3079	6172	8154	7573	6945	6242	5495	5057	3881	1978	1283	1948	4808
MEDIAN	2692	6202	7543	7511	6556	6152	5578	4547	3454	1705	1206	1785	4798

MER3H

USGS # 14220010

AERIAL (MERWIN)

River: LEWIS

Drainage Area:

730 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

19.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	0	0	0	0
1968-69	0	0	0	0	0	0	0	0	0	0	0	0	0
1969-70	0	0	0	0	0	0	0	0	0	0	0	0	0
1970-71	0	0	0	0	0	0	0	0	0	0	0	0	0
1971-72	0	0	0	0	0	0	0	0	0	0	0	0	0
1972-73	0	0	0	0	0	0	0	0	0	0	0	0	0
1973-74	0	0	0	0	0	0	0	0	0	0	0	0	0
1974-75	0	0	0	0	0	0	0	0	0	0	0	0	0
1975-76	0	0	0	0	0	0	0	0	0	0	0	0	0
1976-77	0	0	0	0	0	0	0	0	0	0	0	0	0
1977-78	0	0	0	0	0	0	0	0	0	63	-257	-142	-28
1978-79	-8	235	-129	-36	-311	415	7	155	-68	87	-90	-62	19
1979-80	104	-165	-18	-103	76	-10	-45	174	-84	203	-35	15	10
1980-81	-141	22	-263	315	-368	301	-114	277	-57	36	20	-281	-17
1981-82	-52	-347	309	70	-131	66	58	20	194	-12	-32	-114	4
1982-83	-35	-85	-58	82	-56	77	36	-48	59	238	-20	-169	3
1983-84	-45	-177	92	53	60	-216	324	52	35	-4	19	-269	-6
1984-85	41	-363	280	48	135	-28	154	-5	-93	-12	-103	28	7
1985-86	-101	-88	148	-132	-411	333	237	80	10	-1	-107	-59	-5
1986-87	195	-295	62	62	-94	20	104	-111	115	-57	-28	21	0
1987-88	-21	2	-10	-34	47	-334	477	-11	144	-80	-61	-142	-4
1988-89	-1433	844	721	-109	-76	-248	370	211	33	-184	67	-24	12
MEAN	-136	-38	103	20	-103	34	146	72	26	23	-52	-100	0

MER3S

USGS # 14220010

AERIAL (MERWIN)

River: LEWIS

Drainage Area: 730 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 19.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	0	0	0	0
1968-69	0	0	0	0	0	0	0	0	0	0	0	0	0
1969-70	0	0	0	0	0	0	0	0	0	0	0	0	0
1970-71	0	0	0	0	0	0	0	0	0	0	0	0	0
1971-72	0	0	0	0	0	0	0	0	0	0	0	0	0
1972-73	0	0	0	0	0	0	0	0	0	0	0	0	0
1973-74	0	0	0	0	0	0	0	0	0	0	0	0	0
1974-75	0	0	0	0	0	0	0	0	0	0	0	0	0
1975-76	0	0	0	0	0	0	0	0	0	0	0	0	0
1976-77	0	0	0	0	0	0	0	0	0	0	0	0	0
1977-78	0	0	0	0	0	0	0	0	0	-49	-515	-1457	-168
1978-79	-503	-1505	-2196	-1641	2923	1605	1649	1749	249	-501	-813	174	75
1979-80	-581	-4625	3234	-1145	-8	850	1227	-1371	-308	165	38	97	-212
1980-81	7	26	2558	-1522	748	179	329	155	6	80	86	-1910	61
1981-82	147	-511	44	-1379	2971	-1519	30	1432	1777	166	-130	-1421	112
1982-83	-838	-1132	-75	840	443	-308	-672	1819	926	462	-174	-3306	-146
1983-84	-962	2892	-2831	575	1416	515	576	902	516	-136	-57	-2413	72
1984-85	-1445	2484	-3823	-472	1334	1493	2553	209	393	-191	-173	-1909	18
1985-86	430	-1844	-1449	2374	991	32	1013	395	44	-87	-360	-558	79
1986-87	-2131	1916	-1228	-814	283	1041	44	1650	197	-21	-264	-823	-19
1987-88	-1144	-1854	768	893	1083	363	514	729	262	-119	-340	-1492	-27
1988-89	-1594	2039	-926	-120	-1306	1185	1346	832	405	-306	-201	-1312	8
MEAN	-765	-192	-539	-219	989	476	783	773	406	-45	-242	-1361	-12

MER3SS

USGS # 14220010

AERIAL (MERWIN)

River: LEWIS

Drainage Area:

730 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

19.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1790	1075	933	
1928-29	2340	3980	4660	3440	<u>1940</u>	4970	6180	6730	4420	1720	1040	807	3527
1929-30	815	838	4500	2760	11300	4600	4720	3850	2330	1170	879	770	3156
1930-31	933	1790	2310	5270	4770	7190	8740	3580	2150	1480	896	864	3319
1931-32	2240	5390	5240	6490	5880	12300	8970	7290	5570	2550	1360	1040	5358
1932-33	1640	10600	7510	8160	3310	7110	6270	8520	<u>10600</u>	<u>4420</u>	1810	2320	6029
1933-34	5261	5300	<u>28300</u>	16670	4831	7247	4437	<u>2713</u>	<u>1445</u>	1170	981	919	6660
1934-35	4313	11430	8563	6684	8043	4790	4716	6156	4290	2009	1156	1089	5092
1935-36	1217	2128	3680	11130	3915	5452	5215	7105	4931	2080	1280	968	4101
1936-37	909	831	5487	<u>1654</u>	2894	6523	<u>10180</u>	7447	7919	2490	1284	1045	4055
1937-38	1378	11840	10920	8333	3988	6351	8170	6207	3438	1657	1172	1026	5377
1938-39	1371	3899	6042	7192	5544	5372	5371	4420	2854	1742	1142	971	3819
1939-40	1203	1408	8691	4253	10420	8434	5065	4147	1548	<u>1104</u>	1002	990	4006
1940-41	1600	4156	5378	5621	3382	<u>2835</u>	<u>2615</u>	3358	1886	1131	919	2558	2951
1941-42	3225	4551	10730	3184	5121	3508	3850	3880	3906	1753	1218	834	3808
1942-43	1128	9692	8693	4637	6587	6001	9739	5268	4576	2207	1199	955	5031
1943-44	2052	2870	4477	4084	4367	3454	4538	3780	2459	1140	860	945	2912
1944-45	1023	3343	3206	7732	7626	5476	5213	8260	3163	1391	978	1395	4047
1945-46	1197	6875	8986	8891	6045	6668	5986	7036	5695	3689	1435	1091	5298
1946-47	2565	8193	15020	5909	7957	5360	5937	3201	2445	1509	1062	1305	5021
1947-48	<u>7390</u>	8107	5861	7930	6184	4617	5806	8044	5282	1971	1210	1260	5302
1948-49	2189	6010	6606	1906	6669	6813	7050	<u>9771</u>	4672	2282	1177	1083	4669
1949-50	2131	7685	7268	7294	9368	11180	8720	7943	8008	3915	1786	1374	6364
1950-51	5235	10090	11960	8224	10370	4103	6319	6543	3566	1784	1190	1199	5851
1951-52	7032	5916	7787	3139	7663	4411	7146	6886	3808	2010	1183	970	4818
1952-53	700	<u>825</u>	3397	<u>18750</u>	9377	4820	4870	6886	5295	2723	1480	1386	5028
1953-54	1898	6495	12360	7631	9682	5689	7354	6372	6317	3713	1737	1370	5859
1954-55	2176	5914	5757	4617	5668	3150	5990	6287	7821	3991	1756	1644	4547
1955-56	7005	<u>12470</u>	12250	9700	3915	8059	8257	9039	6850	3789	1937	1420	7073
1956-57	3597	5042	9529	3100	5654	8964	7290	5717	2785	1441	1115	867	4590
1957-58	1392	4020	9168	9067	10770	4528	8149	5295	2855	1445	1004	988	4851
1958-59	1638	11390	8784	11680	4736	5438	6736	5728	4789	1859	1152	<u>2859</u>	5561
1959-60	6211	6937	6309	3866	8833	6074	8441	7750	4529	1742	1332	1386	5264
1960-61	2270	11940	5551	8888	<u>15790</u>	9535	6260	6704	3739	1584	1222	1136	6145
1961-62	2371	4501	9846	6390	5007	4437	7467	5465	3257	1502	1209	1152	4382
1962-63	3347	10900	6863	4433	7746	4220	7438	5495	2156	1481	1028	934	4637
1963-64	1813	8932	5978	10350	5631	5422	5206	5956	6331	2939	1966	1623	5173
1964-65	2082	6354	14080	9716	7080	4084	6193	4977	3010	1399	1079	847	5069
1965-66	1082	3230	4234	7288	4258	7681	7337	6722	3877	2498	1239	1010	4208
1966-67	1911	4927	11420	11070	6479	5378	4220	5845	4684	1706	988	870	4960
1967-68	4233	4699	6987	7450	14380	6753	4448	3921	4904	1584	<u>2128</u>	2471	5294
1968-69	5172	9093	8250	7631	3388	4514	7546	9179	4865	2089	1146	1849	5405
1969-70	3470	4389	6884	14030	7881	5598	4762	4564	2680	1208	886	1041	4774
1970-71	2101	6137	7950	12280	7861	6258	6450	8899	6899	4293	1785	1879	6059
1971-72	2564	6151	7289	11260	12720	<u>15090</u>	6702	8507	5272	2546	1390	2012	6779
1972-73	1327	4318	11480	7089	3074	4400	3517	3564	2454	1483	923	1307	3760
1973-74	2374	10900	13000	15090	8023	8083	8123	7579	9076	4398	1915	1252	<u>7482</u>
1974-75	1125	4510	9972	12280	6563	5959	3673	6512	4468	2236	1445	1288	5006
1975-76	3486	8534	16090	10370	6062	4582	5520	6992	3895	2272	1496	1063	5875
1976-77	1108	1530	<u>1805</u>	2006	2446	5390	4725	4315	3644	1113	1118	2184	<u>2612</u>
1977-78	2333	10710	17430	6754	5787	4143	5287	4985	3006	1506	1181	1732	5404
1978-79	1080	2743	4623	1998	8262	7495	4861	5539	1985	1315	<u>236</u>	1974	3477
1979-80	2110	2228	11070	6904	7064	5228	7541	3746	2186	1316	934	983	4272
1980-81	834	5676	13260	3580	9462	3172	6030	3392	4645	1699	1020	930	4436
1981-82	2838	5677	9868	7781	14780	6882	5955	5722	3803	1782	1235	1269	5574
1982-83	2597	5236	9909	11640	9545	9594	5436	4725	3471	3663	1681	1632	5750
1983-84	1353	12220	5709	8827	6428	7677	5456	6644	4573	2029	1143	1305	5268
1984-85	2071	8715	4665	2363	2793	4057	7665	5723	5195	1353	997	1443	3909
1985-86	2999	5936	3308	7696	9834	6785	3959	4288	1976	1178	801	1195	4126
1986-87	1371	8118	4487	5648	8090	9463	4848	3635	1990	1127	877	<u>734</u>	4170
1987-88	<u>586</u>	1236	7043	4652	5264	6515	7860	5183	3164	1398	875	915	3721
1988-89	1038	8506	4703	7031	3665	7953	7412	4428	2614	1307	1060	865	4213
MEAN	2427	6197	8249	7402	6888	6194	6228	5875	4197	2046	1223	1283	4841
MEDIAN	2082	5914	7289	7288	6428	5598	6030	5728	3877	1742	1164	1114	4960

MER3A

USGS #	PACKWOOD										River:	Drainage Area:	Sq. Mi.
Monthly mean historical streamflow in cfs.											River Mile:		
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										116	53	56	
1928-29	53	54	44	36	31	<u>34</u>	46	143	184	117	56	37	70
1929-30	35	23	57	34	104	58	93	119	134	73	50	40	68
1930-31	39	35	36	49	61	61	91	175	140	70	45	42	70
1931-32	41	48	41	57	53	107	101	176	236	174	84	55	98
1932-33	59	<u>230</u>	118	85	50	52	60	128	301	229	114	75	125
1933-34	147	134	<u>365</u>	<u>201</u>	86	128	154	134	98	66	48	39	134
1934-35	68	138	106	89	88	54	53	133	213	135	65	45	99
1935-36	31	26	28	60	36	55	109	257	237	106	51	44	87
1936-37	31	22	49	33	31	40	72	161	309	172	65	51	86
1937-38	43	115	114	92	49	50	115	196	208	121	50	36	99
1938-39	44	52	82	75	49	53	103	173	162	136	60	44	86
1939-40	39	46	98	79	85	83	91	156	121	70	44	34	79
1940-41	35	39	71	52	41	36	48	100	<u>95</u>	<u>62</u>	<u>39</u>	60	<u>57</u>
1941-42	94	90	144	54	48	43	70	116	164	140	46	<u>31</u>	87
1942-43	29	110	95	68	55	64	<u>164</u>	153	255	203	79	51	111
1943-44	51	38	50	41	44	43	59	97	129	145	<u>151</u>	71	77
1944-45	38	36	45	68	67	48	58	179	169	106	54	67	78
1945-46	38	59	104	96	50	58	89	206	281	192	93	50	110
1946-47	73	109	231	73	104	65	81	178	154	116	62	58	109
1947-48	175	118	86	83	53	52	66	172	298	151	74	55	115
1948-49	76	60	56	38	50	68	108	216	256	187	96	56	106
1949-50	62	131	91	72	74	99	92	154	324	<u>278</u>	122	62	130
1950-51	122	152	184	97	151	66	104	190	181	126	61	49	123
1951-52	113	81	81	38	58	43	92	175	169	145	65	37	92
1952-53	29	23	<u>27</u>	145	139	54	67	147	170	200	89	46	95
1953-54	56	77	157	81	86	72	85	181	243	255	135	72	125
1954-55	70	73	64	55	51	37	58	<u>93</u>	284	200	93	61	95
1955-56	151	165	196	91	43	54	123	218	298	244	104	65	<u>146</u>
1956-57	71	60	112	45	59	84	88	213	182	93	54	40	92
1957-58	41	42	76	79	102	53	78	173	164	96	56	40	83
1958-59	49	135	120	117	58	48	70	137	187	117	80	124	104
1959-60	<u>189</u>	197	104	48	65	53	95	147	221	125	67	52	114
1960-61	55	138	76	108	159	89	95	159	285	147	71	55	119
1961-62	57	61	93	138	70	47	121	111	178	147	93	47	97
1962-63	56	153	128	62	108	108	70	117	158	97	69	45	97
1963-64	15	57	76	85	55	45	51	115	302	248	125	104	107
1964-65	97	64	158	155	<u>166</u>	63	97	128	186	128	78	49	114
1965-66	27	98	58	60	36	39	65	170	167	128	55	92	83
1966-67	15	74	130	100	93	52	45	140	266	133	69	76	99
1967-68	105	128	122	145	158	99	52	115	178	107	81	<u>126</u>	118
1968-69	116	162	90	124	48	36	60	242	266	99	49	92	116
1969-70	52	49	57	126	93	71	47	129	222	117	50	92	92
1970-71	14	87	81	106	126	60	25	200	229	224	133	106	116
1971-72	7	70	77	73	98	<u>218</u>	84	<u>262</u>	356	243	124	121	145
1972-73	21	55	147	106	51	38	21	113	150	96	58	100	80
1973-74	6	145	98	165	82	60	88	146	<u>369</u>	270	133	118	140
1974-75	6	43	107	143	95	57	<u>21</u>	143	269	233	100	103	110
1975-76	17	111	232	137	93	51	33	196	185	210	135	118	127
1976-77	16	65	45	<u>22</u>	46	47	61	103	167	75	78	109	69
1977-78	12	19	315	67	57	36	70	123	187	139	80	101	101
1978-79	25	64	57	35	51	78	28	178	152	104	53	95	77
1979-80	8	38	113	63	71	71	81	154	157	108	51	93	84
1980-81	3	88	179	104	<u>4</u>	62	74	130	187	105	57	83	90
1981-82	5	56	92	75	157	88	42	159	233	156	69	102	102
1982-83	34	83	76	108	83	96	57	138	183	156	106	99	102
1983-84	49	150	63	180	84	53	63	130	211	180	76	107	112
1984-85	94	89	56	42	38	36	59	175	203	108	46	86	86
1985-86	53	138	51	71	95	103	63	109	164	69	45	73	86
1986-87	21	80	50	39	41	73	82	164	123	68	40	76	71
1987-88	<u>3</u>	<u>17</u>	65	35	40	61	142	177	171	111	53	76	79
1988-89	30	96	86	76	54	51	127	147	184	179	64	76	98
MEAN	53	85	102	83	73	64	77	157	207	144	75	70	99
MEDIAN	41	74	86	75	59	55	72	154	186	131	66	64	98

PAK3H

USGS # 14225420

PACKWOOD LAKE

River: LAKE CR.

Drainage Area:

19 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

5.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	4	0
1959-60	-1	1	-4	0	-1	3	-1	7	-2	-4	-2	-2	0
1960-61	4	0	-2	2	0	-2	3	3	-1	-4	-1	-2	0
1961-62	1	1	0	0	0	-1	4	2	4	-5	-3	0	0
1962-63	0	2	-2	-3	4	-1	0	7	-4	-3	-1	-2	0
1963-64	20	5	-2	0	-1	-1	0	-3	2	-10	-2	-16	-1
1964-65	-12	0	42	17	-52	-2	23	0	1	1	-1	-9	1
1965-66	13	-8	-3	-17	-9	-2	24	10	-4	3	6	-44	-2
1966-67	34	-4	-11	1	-6	-2	23	1	13	-12	-1	-21	1
1967-68	23	-7	7	-22	16	-13	19	-1	-2	1	1	-28	-1
1968-69	18	-8	-3	-5	-6	2	25	21	-19	0	0	-25	0
1969-70	4	6	4	3	-8	-5	17	1	6	-1	0	-36	-1
1970-71	28	-2	-7	-5	-5	-5	28	6	-2	21	-20	-42	0
1971-72	30	-4	-12	3	13	-7	16	25	-13	-8	-1	-42	0
1972-73	25	6	-2	-10	-5	0	17	8	5	-1	-4	-40	0
1973-74	49	-29	9	3	-18	0	3	16	18	-6	-6	-46	0
1974-75	28	2	-10	12	-24	12	18	3	-5	3	3	-46	0
1975-76	40	-6	-3	5	-16	-7	27	-1	1	1	0	-42	0
1976-77	28	-14	-6	19	-3	-4	21	-1	1	0	1	-41	0
1977-78	34	14	-28	-1	0	11	9	-1	2	-3	2	-28	1
1978-79	15	-15	3	-5	-2	1	35	-2	2	-1	1	-43	-1
1979-80	35	-8	-2	-1	6	-9	21	-1	1	-1	0	-43	0
1980-81	21	1	35	-29	34	-24	10	-1	1	-1	0	-38	1
1981-82	22	-4	-1	-5	16	-10	19	1	13	-9	1	-45	-1
1982-83	27	-20	-4	7	-15	41	4	15	-16	2	-2	-44	0
1983-84	27	-25	0	9	-4	30	3	6	7	-9	-1	-11	3
1984-85	-17	-3	-7	-5	-3	13	32	1	-1	1	4	-29	-1
1985-86	26	-26	-6	-3	26	2	6	17	-16	2	-2	-36	-1
1986-87	16	-5	5	-3	-8	8	22	1	-3	2	0	-44	-1
1987-88	10	2	-1	6	11	14	-1	10	-10	4	0	-39	1
1988-89	15	8	-8	-9	-7	9	12	11	1	2	2	-42	0
MEAN	19	-5	-1	-1	-2	2	15	5	-1	-1	-1	-30	0

PAK3S

USGS #	PACKWOOD												River:	Drainage Area:	Sq. Mi.
	Monthly mean streamflow, adjusted for storage, in cfs.													River Mile:	
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.		
1927-28										116	53	56			
1928-29	53	54	44	36	31	<u>34</u>	46	143	184	117	56	37	70		
1929-30	35	23	57	34	104	58	93	119	134	73	50	40	68		
1930-31	39	35	36	49	61	61	91	175	140	70	45	42	70		
1931-32	41	46	41	57	53	107	101	176	236	174	84	55	98		
1932-33	59	<u>230</u>	118	85	50	52	60	128	301	229	114	75	125		
1933-34	147	134	<u>365</u>	<u>201</u>	86	128	154	134	98	66	48	39	134		
1934-35	68	138	106	89	88	54	53	133	213	135	65	45	99		
1935-36	31	26	28	60	36	55	109	257	237	106	51	44	87		
1936-37	31	22	49	33	31	40	72	161	309	172	65	51	86		
1937-38	43	115	114	92	49	50	115	196	208	121	50	36	99		
1938-39	44	52	82	75	49	53	103	173	162	136	60	44	86		
1939-40	39	46	98	79	85	83	91	156	121	70	44	34	79		
1940-41	35	39	71	52	41	36	48	100	<u>95</u>	<u>62</u>	<u>39</u>	60	<u>57</u>		
1941-42	94	90	144	54	48	43	70	116	164	140	46	<u>31</u>	87		
1942-43	29	110	95	68	55	64	<u>164</u>	153	255	203	79	51	111		
1943-44	51	38	50	41	44	43	59	97	129	145	<u>151</u>	71	77		
1944-45	38	36	45	68	67	48	58	179	169	106	54	67	78		
1945-46	38	59	104	96	50	58	89	206	281	192	93	50	110		
1946-47	73	109	231	73	104	65	81	178	154	116	62	58	109		
1947-48	175	118	86	83	53	52	66	172	298	151	74	55	115		
1948-49	76	60	56	38	50	68	108	216	256	187	96	56	106		
1949-50	62	131	91	72	74	99	92	154	324	<u>278</u>	122	62	130		
1950-51	122	152	184	97	151	66	104	190	181	126	61	49	123		
1951-52	113	81	81	38	58	43	92	175	169	145	65	37	92		
1952-53	29	23	<u>27</u>	145	139	54	67	147	170	200	89	46	95		
1953-54	56	77	<u>157</u>	81	86	72	85	181	243	255	135	72	125		
1954-55	70	73	64	55	51	37	58	<u>93</u>	284	200	93	61	95		
1955-56	151	165	196	91	43	54	123	218	298	244	104	65	<u>146</u>		
1956-57	71	60	112	45	59	84	88	213	182	93	54	40	92		
1957-58	41	42	76	79	102	53	78	173	164	96	56	40	83		
1958-59	49	135	120	117	58	48	70	137	187	117	80	<u>128</u>	104		
1959-60	<u>188</u>	198	100	48	64	56	94	154	219	121	65	50	113		
1960-61	59	138	74	110	159	87	98	162	284	143	70	53	119		
1961-62	58	62	93	138	70	46	125	113	182	142	90	47	97		
1962-63	56	155	126	59	112	107	70	124	154	94	68	43	97		
1963-64	35	62	74	85	54	44	51	112	304	238	123	88	106		
1964-65	85	64	200	172	114	61	120	128	187	129	77	40	115		
1965-66	40	90	55	43	<u>27</u>	37	89	180	163	131	61	48	81		
1966-67	49	70	119	101	87	50	68	141	279	121	68	55	101		
1967-68	128	121	129	123	<u>174</u>	86	71	114	176	108	82	98	117		
1968-69	134	154	87	119	42	38	85	263	247	99	49	67	116		
1969-70	56	55	61	129	85	66	64	130	228	116	50	56	91		
1970-71	42	85	74	101	121	55	53	206	227	245	113	64	116		
1971-72	37	66	65	76	111	<u>211</u>	100	<u>287</u>	343	235	123	79	145		
1972-73	46	61	145	96	46	38	<u>38</u>	121	155	95	54	60	80		
1973-74	55	116	107	168	64	60	91	162	<u>387</u>	264	127	72	140		
1974-75	34	45	97	155	71	69	39	146	264	236	103	57	110		
1975-76	57	105	229	142	77	44	60	195	186	211	135	76	127		
1976-77	44	51	39	41	43	43	82	102	168	75	79	68	70		
1977-78	46	33	287	66	57	47	79	122	189	136	82	73	102		
1978-79	40	50	60	<u>30</u>	50	79	62	176	154	102	54	52	76		
1979-80	43	30	111	62	77	62	102	153	158	107	51	50	84		
1980-81	24	90	214	74	38	38	84	129	188	104	57	45	91		
1981-82	27	52	91	70	172	77	61	159	245	147	70	57	102		
1982-83	61	63	72	114	68	137	61	153	166	158	104	55	101		
1983-84	76	125	64	188	79	83	66	136	218	171	75	96	115		
1984-85	76	86	49	37	36	50	92	176	202	108	50	57	85		
1985-86	79	112	44	67	121	105	69	126	148	71	43	37	85		
1986-87	36	76	55	36	33	81	105	164	120	69	41	32	71		
1987-88	<u>13</u>	<u>18</u>	64	40	50	75	141	186	161	115	53	37	80		
1988-89	45	104	78	67	46	60	139	158	184	182	66	35	97		
MEAN	62	83	101	83	72	65	84	159	207	144	75	56	99		
MEDIAN	49	70	86	74	59	56	84	156	187	130	66	54	98		

PAK3A

USGS # 14234802

MOSSYROCK

River: COWLITZ

Drainage Area:

1170 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

65.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	3141	4964	5827	1239	1089	1976	1515
1968-69	2235	1645	-1696	-2086	-2536	-324	3438	8069	660	-263	-1618	-952	566
1969-70	-2794	-3137	-2171	4309	881	-1566	-1243	2882	4861	790	-867	-2197	-24
1970-71	-3508	-2370	-1127	2754	1349	-3283	-956	6726	2438	1031	-105	-1794	94
1971-72	-2135	-2179	-2437	450	2990	2357	-1838	3825	128	901	-482	-394	96
1972-73	-4346	-1834	1045	-1336	-2182	-1290	865	2844	2573	-653	-2110	-963	-611
1973-74	-381	1431	965	2773	-2607	866	422	1639	2633	-513	524	-912	593
1974-75	-2442	-2440	156	2298	-3853	-1480	-3603	6662	4873	-197	195	-824	-18
1975-76	-1786	-1494	-1124	224	-2561	-4240	1662	6948	2991	-167	492	-953	7
1976-77	-3765	-4647	-2898	-3260	-932	220	4437	4604	4211	127	-275	592	-140
1977-78	-242	-941	-1378	-2675	-1084	528	2655	4178	1613	-82	-310	112	201
1978-79	-2842	-3789	-3267	-3316	1549	4894	2809	3907	164	154	-499	-604	-80
1979-80	-1539	-3044	-219	-604	2271	-183	4179	213	-29	-402	-1072	-2066	-221
1980-81	-4817	-136	4726	-4048	3303	627	3749	961	55	-177	-367	-739	231
1981-82	-1638	-2862	-331	523	3773	-2660	884	3038	567	93	-600	-770	-24
1982-83	-1215	-2983	-674	-69	1644	828	616	2638	534	-76	-532	-1246	-51
1983-84	-2256	-1702	-4354	4283	731	1864	1051	2465	28	-933	-1363	-1400	-133
1984-85	-1989	-563	-3303	-3675	-1843	-210	5441	6892	2297	-6198	-1259	-1161	-474
1985-86	420	1473	-2337	1576	4380	1014	-221	2604	-227	-415	-881	-1520	464
1986-87	-1773	1836	-5697	-1720	2526	3257	2290	2897	27	-2566	-1557	-1707	-213
1987-88	-1952	-1499	313	-2010	908	3539	4841	2117	-186	-351	-2305	-2549	67
1988-89	-1894	1402	-964	302	-3711	2186	4722	2029	773	-1661	-1150	-1377	71
MEAN	-1936	-1325	-1275	-253	238	331	1788	3777	1673	-469	-684	-975	87

MOS3S

USGS # 14234802

MOSSYROCK

River: COWLITZ

Drainage Area:

1170 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cubic feet per second

River Mile:

65.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	4	0
1959-60	-1	1	-4	0	-1	3	-1	7	-2	-4	-2	-2	0
1960-61	4	0	-2	2	0	-2	3	3	-1	-4	-1	-2	0
1961-62	1	1	0	0	0	-1	4	2	4	-5	-3	0	0
1962-63	0	2	-2	-3	4	-1	0	7	-4	-3	-1	-2	0
1963-64	20	5	-2	0	-1	-1	0	-3	2	-10	-2	-16	-1
1964-65	-12	0	42	17	-52	-2	23	0	1	1	-1	-9	1
1965-66	13	-8	-3	-17	-9	-2	24	10	-4	3	6	-44	-2
1966-67	34	-4	-11	1	-6	-2	23	1	13	-12	-1	-21	1
1967-68	23	-7	7	-22	16	-13	3160	4963	5825	1240	1090	1948	1514
1968-69	2253	1637	-1699	-2091	-2542	-322	3463	8090	641	-263	-1618	-977	566
1969-70	-2790	-3131	-2167	4312	873	-1571	-1226	2883	4867	789	-867	-2233	-24
1970-71	-3480	-2372	-1134	2749	1344	-3288	-928	6732	2436	1052	-125	-1836	94
1971-72	-2105	-2183	-2449	453	3003	2350	-1822	3850	115	893	-483	-436	96
1972-73	-4321	-1828	1043	-1346	-2187	-1290	882	2852	2578	-654	-2114	-1003	-611
1973-74	-332	1402	974	2776	-2625	866	425	1655	2651	-519	518	-958	592
1974-75	-2414	-2438	146	2310	-3877	-1468	-3585	6665	4868	-194	198	-870	-18
1975-76	-1746	-1500	-1127	229	-2577	-4247	1689	6947	2992	-166	492	-995	7
1976-77	-3737	-4661	-2904	-3241	-935	216	4458	4603	4212	127	-274	551	-139
1977-78	-208	-927	-1406	-2676	-1084	539	2664	4177	1615	-85	-308	84	202
1978-79	-2827	-3803	-3264	-3321	1547	4895	2844	3905	167	153	-498	-647	-81
1979-80	-1504	-3053	-221	-604	2277	-192	4200	212	-28	-403	-1072	-2109	-221
1980-81	-4796	-135	4761	-4077	3336	603	3758	960	55	-178	-367	-777	232
1981-82	-1616	-2866	-332	517	3788	-2670	902	3039	580	84	-599	-815	-24
1982-83	-1189	-3003	-678	-62	1630	869	620	2653	517	-75	-533	-1290	-51
1983-84	-2229	-1727	-4353	4291	727	1894	1054	2471	34	-942	-1365	-1411	-130
1984-85	-2006	-566	-3310	-3680	-1845	-197	5473	6894	2296	-6197	-1255	-1190	-476
1985-86	446	1447	-2343	1573	4405	1016	-215	2622	-243	-413	-883	-1555	463
1986-87	-1757	1831	-5692	-1723	2518	3265	2312	2897	24	-2565	-1557	-1751	-214
1987-88	-1942	-1497	312	-2004	919	3553	4840	2126	-196	-347	-2305	-2588	67
1988-89	-1879	1411	-972	294	-3718	2195	4733	2040	774	-1658	-1148	-1419	71
MEAN	-1337	-932	-893	-184	164	233	1326	2775	1226	-345	-503	-722	62

MOS3SS

USGS # 14234802

MOSSYROCK

River: COWLITZ

Drainage Area:

1170 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

65.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										3331	1783	1224	
1928-29	2202	2487	2861	2458	<u>1620</u>	4029	4497	11120	9658	3611	1884	1178	3981
1929-30	909	710	2929	2345	<u>9482</u>	4761	6998	5620	4493	2414	1425	1013	3546
1930-31	1144	1541	1821	4956	4470	4940	8043	6747	3663	1990	1318	1039	3463
1931-32	1545	3315	3525	4759	4953	9894	8277	10140	9692	4699	1900	1090	5314
1932-33	1580	10100	6340	6710	2640	4395	5762	8271	14140	7690	3244	2352	6108
1933-34	5844	6390	<u>24520</u>	<u>15800</u>	6255	8147	7106	4860	2808	1809	1360	1090	7204
1934-35	3712	9647	<u>7772</u>	<u>6861</u>	6397	4263	4716	8100	7797	3962	1793	1262	5513
1935-36	777	1205	2255	6575	2888	5934	8092	12700	9449	3417	1755	1269	4699
1936-37	736	<u>665</u>	4128	1925	2482	5890	7867	10470	12000	4823	1996	1561	4551
1937-38	1391	9439	7705	7925	3650	4375	8477	9290	6625	2852	1637	1199	5383
1938-39	1177	3250	5442	5708	4376	5381	6859	7865	5763	3384	1616	1202	4336
1939-40	1040	1809	5993	3715	6917	7080	5329	6458	2964	<u>1536</u>	1266	1082	3759
1940-41	1123	2553	4252	3692	2762	<u>2506</u>	3161	<u>3943</u>	<u>1773</u>	1650	1286	1904	<u>2551</u>
1941-42	3442	4623	8577	3185	3793	3103	4963	5204	6607	3670	1836	1159	4182
1942-43	786	7946	7611	4724	6303	4930	<u>9544</u>	7198	7910	5060	2018	1282	5422
1943-44	1164	2120	3941	3076	3632	3290	4260	5580	4242	1903	1331	1376	2989
1944-45	1076	2233	3330	6186	6317	3809	5155	11460	5877	2661	1531	1534	4253
1945-46	1404	4802	6552	7139	4725	5799	6506	11950	9607	6399	2271	1459	5727
1946-47	2412	6032	12470	5854	7169	5449	6391	7019	4951	2760	1520	1401	5277
1947-48	6561	8508	5811	6390	5160	4304	5236	11140	11880	4173	2263	1588	6082
1948-49	2716	4655	5392	2260	4403	6504	8232	<u>14860</u>	9157	4706	2233	1540	5561
1949-50	2305	6706	5641	5689	7430	9443	7621	9702	13070	7871	2872	1712	6659
1950-51	4365	9799	12300	7168	11040	4548	7429	8687	6026	3049	1637	1200	6403
1951-52	4544	4855	5941	2308	5729	3173	7486	9246	6087	3544	1765	1138	4643
1952-53	891	711	<u>1270</u>	12830	8554	3380	4977	8203	7786	5765	2275	1388	4817
1953-54	1625	3868	11650	6229	8533	5419	6628	10280	10270	7844	3247	1982	6456
1954-55	2265	4844	4128	4255	5053	2627	4947	8065	13780	7508	2780	1787	5158
1955-56	5925	<u>12170</u>	12620	7021	3494	5109	9308	14010	11660	6833	2696	1642	<u>7720</u>
1956-57	2625	4197	9834	3159	4593	7633	6891	9827	5552	2643	1607	1198	4989
1957-58	1207	2190	5554	6352	7889	3990	6885	9978	5870	2618	1606	1253	4595
1958-59	1994	11530	9992	10760	4284	4036	6711	7826	7986	3937	1826	<u>2907</u>	6152
1959-60	<u>6813</u>	10020	6902	3198	6653	5086	6999	8775	8123	3320	1774	1423	5743
1960-61	1867	8231	5151	7523	13080	7182	6515	9002	9003	3605	1867	1347	6140
1961-62	1777	3208	7024	7860	4622	2954	8507	6216	6756	3743	2042	1401	4673
1962-63	2668	8554	7725	3711	8996	3928	6073	6374	4365	2390	1567	1237	4762
1963-64	1400	4768	4961	6972	4789	3588	5049	7792	12370	7003	3096	1943	5306
1964-65	2497	3549	11920	10130	8953	4766	7286	7216	6577	3199	1808	1182	5743
1965-66	1208	2436	3022	3843	2737	5052	7975	9605	6567	3932	1769	1262	4124
1966-67	1529	3525	9285	8691	6570	4252	3243	8813	10580	4185	1828	1279	5312
1967-68	3974	4794	6410	7850	12580	6083	4128	6233	6939	2678	2135	2831	5524
1968-69	4511	8839	6639	7708	2814	3629	6322	11810	7693	2687	1446	1609	5490
1969-70	2438	2974	4462	10280	7071	4571	4231	6850	7056	2688	1355	1412	4604
1970-71	1494	4563	5855	9665	8593	4426	5352	12190	10460	8238	3083	1837	6302
1971-72	1812	4176	5210	8032	10050	<u>16140</u>	7086	13520	12460	7165	3041	2557	7603
1972-73	1608	3049	9290	6650	2628	3125	3295	5463	4088	2199	1384	1339	3693
1973-74	1753	6832	9138	13940	5879	6092	7491	9646	<u>16980</u>	<u>8571</u>	<u>3400</u>	1662	7623
1974-75	1033	2413	6869	11290	5140	5165	<u>2895</u>	8441	9931	6191	2290	1487	5275
1975-76	2273	6818	15880	10080	4718	3489	5318	10340	7096	5717	2976	1725	6391
1976-77	1270	1663	1718	2334	2028	3065	5582	5338	5215	1684	1515	1968	2779
1977-78	1536	9088	18510	5034	4261	3967	4599	6603	5650	3016	1711	2148	5522
1978-79	1330	2136	3976	<u>1918</u>	5292	6621	4711	8474	4513	2309	1198	1248	3636
1979-80	1544	1449	8712	4819	6804	5013	7459	6320	4667	2287	1302	1286	4298
1980-81	787	5030	13100	4218	8735	3360	5626	5205	6349	2708	1357	1146	4772
1981-82	2550	3676	7182	6338	<u>13880</u>	6225	5274	8999	9390	3768	1688	1334	5803
1982-83	2233	3600	7480	9281	5951	6970	4691	7241	5859	4597	2138	1762	5156
1983-84	1127	8591	4370	10520	5556	5833	4960	7725	8409	4309	1893	1290	5377
1984-85	1814	5238	3314	2659	2455	2922	7415	8514	8646	2673	1328	1265	4015
1985-86	2908	5547	2551	5530	8782	7075	4052	6297	4370	1762	1124	1013	4219
1986-87	1193	6816	3735	3670	6181	7264	5773	6334	3288	1704	<u>1087</u>	932	3978
1987-88	<u>549</u>	807	4866	3267	4619	5564	9041	8049	5311	2594	1206	1004	3901
1988-89	1428	6072	4715	5236	3283	5529	8543	7104	6171	2736	1104	<u>800</u>	4391
MEAN	2154	4973	6920	6234	5913	5198	6227	8464	7607	3932	1889	1464	5076
MEDIAN	1608	4623	5941	6186	5292	4930	6391	8203	6939	3401	1772	1336	5158

MOS3A

USGS # 14237810

MAYFIELD

River: COWLITZ

Drainage Area:

1400 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

52

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										3595	1919	1366	
1928-29	2585	2768	3435	3178	<u>2041</u>	5372	6291	11650	10170	3860	2030	1261	4568
1929-30	1252	888	3780	2988	11920	5608	7552	6503	4834	2677	1528	<u>1095</u>	4162
1930-31	1526	1986	1994	6527	5482	6426	10660	7387	4129	2194	1405	1162	4225
1931-32	2303	4836	5056	6387	6396	12670	10300	10760	10090	4957	2053	1189	6414
1932-33	2034	13140	9219	9130	3484	6564	6895	9300	15110	7964	3554	2870	7449
1933-34	6679	7175	<u>33830</u>	<u>20700</u>	7353	9327	7412	5563	3169	2001	1496	1226	8884
1934-35	4852	12190	10080	9276	7651	5327	5540	8675	8061	4047	1931	1511	6584
1935-36	1205	1556	2644	8927	3980	7485	9160	13320	10100	3590	1899	1443	5449
1936-37	1122	<u>826</u>	5242	<u>2441</u>	3550	7233	10340	11210	12720	5004	2174	1808	5308
1937-38	1838	11610	10780	10870	4646	5874	9989	10030	6985	3199	1776	1340	6584
1938-39	1615	3994	7021	7617	6128	6705	7784	8536	6172	3598	1739	1367	5186
1939-40	1462	2020	7860	4873	9268	8785	6685	7375	3235	1830	<u>1349</u>	1210	4652
1940-41	1562	3152	5472	4879	3292	<u>3115</u>	3546	4781	3227	1945	1368	2337	<u>3224</u>
1941-42	4199	5391	11500	4148	4821	3866	5527	6004	7140	3849	1997	1291	4981
1942-43	1173	10050	10100	6230	8152	6085	<u>11550</u>	7914	8317	5493	2198	1458	6532
1943-44	1676	2498	4960	4051	4519	4116	5126	6336	4589	2216	1424	1574	3587
1944-45	1497	2722	3908	8174	8052	5241	6432	12240	6283	2943	1650	1821	5064
1945-46	1818	6292	8804	9609	6469	7405	7657	12580	10140	6439	2476	1615	6781
1946-47	3096	7651	18700	7454	9172	6152	7764	7445	5392	3050	1639	1655	6587
1947-48	7642	10550	7584	8294	6792	5456	6528	12300	12410	4473	2433	1897	7191
1948-49	3297	6511	7998	2898	6300	8504	9475	<u>15500</u>	9430	5183	2523	1834	6621
1949-50	3020	7685	7863	7783	10120	11970	9461	10780	13850	8226	3164	1858	7959
1950-51	5279	11810	15220	9558	13990	5850	8552	9486	6330	3175	1703	1345	7648
1951-52	5817	6080	7633	3371	7733	4465	8612	9684	6437	3798	1831	1249	5547
1952-53	<u>1048</u>	888	<u>1879</u>	17320	11060	4571	6328	9228	8471	6073	2486	1650	5892
1953-54	2233	4973	15680	8469	11050	6566	8353	11200	10750	7988	3521	2375	7749
1954-55	2746	6055	5457	5729	7124	3828	7096	9133	14630	7729	3062	2041	6198
1955-56	7326	<u>15080</u>	16480	9428	4434	7250	11040	14230	11730	7165	2936	1809	9093
1956-57	3644	5582	12420	3812	6027	9875	8348	10240	6012	2803	1772	1316	5994
1957-58	1505	3081	7906	8496	10020	4857	8457	10420	6198	2723	1675	1346	5529
1958-59	2368	14060	12120	13360	5716	5786	8376	8882	8828	4364	2135	3845	7487
1959-60	<u>8052</u>	12750	8756	4219	8563	6389	8743	10450	8670	3685	2134	1760	6995
1960-61	2518	11650	6640	9248	<u>16450</u>	9814	8054	10280	9355	3809	2006	1600	7545
1961-62	2313	4041	9405	9249	5093	4059	8750	7313	7273	3873	2272	1597	5439
1962-63	3080	11130	9998	4848	9353	4205	8035	7020	4569	2709	1861	1669	5670
1963-64	2015	6648	6127	10670	6663	5225	6946	8991	14060	7431	3280	2296	6687
1964-65	2900	4890	16360	12990	11710	5429	7605	7951	6848	3117	2062	1390	6918
1965-66	1541	2939	3742	5868	4226	7020	9400	10140	7037	4228	1977	1489	4971
1966-67	2123	4499	11790	12770	8479	5447	4061	9474	10980	4162	1910	1497	6429
1967-68	5058	5487	7787	9319	14420	6966	<u>2150</u>	<u>1522</u>	<u>1548</u>	<u>1492</u>	1512	1524	4871
1968-69	3488	9191	10870	12550	6523	5365	4527	5032	8029	3448	3334	3059	6283
1969-70	5869	7095	7867	9445	8601	7205	6778	4799	2584	2069	2391	3925	5702
1970-71	5482	8376	9282	11230	9851	9752	8043	6899	8896	7592	3343	<u>4149</u>	7728
1971-72	4625	8236	10080	11350	11000	<u>18300</u>	10620	11110	12850	6705	3749	3399	<u>9333</u>
1972-73	6210	5776	11480	9778	5644	5595	3393	3231	2112	3172	3645	2746	5247
1973-74	2365	7550	11320	15320	11160	7594	9241	9695	<u>16480</u>	<u>9616</u>	3178	3088	8863
1974-75	3625	5985	9216	13350	10990	8390	7530	2887	5701	6720	2483	2706	6609
1975-76	5288	10400	24170	13930	9020	9236	5315	4518	4729	6323	2939	3013	8262
1976-77	5109	6724	5194	5980	3460	4296	2400	1870	1888	1943	2135	2128	3598
1977-78	2444	13380	26170	9581	6404	4055	3122	3211	4321	3290	2342	2672	6761
1978-79	4130	6847	9372	5899	6251	3613	3052	5246	4517	2511	2085	2326	4646
1979-80	3376	4923	12340	7269	6668	6672	4811	6594	5139	3009	2609	3715	5598
1980-81	5807	6910	12230	9520	8712	3579	3904	5400	8139	3346	2133	2321	5985
1981-82	4978	7687	10600	9295	14910	11210	5826	6749	9485	3930	2527	2469	7423
1982-83	4005	8147	10890	13160	6274	7971	5104	5084	5800	5491	3081	3501	6554
1983-84	3614	13950	10780	9479	6410	5910	5376	7167	9779	5658	3423	2973	7036
1984-85	4181	8186	8695	7366	5298	4092	3512	2527	7475	9336	2837	2850	5532
1985-86	3596	6174	5845	5804	7065	7479	4957	4687	4770	2441	2250	2772	4803
1986-87	3214	7852	11210	6979	5509	6364	4461	4098	3682	4346	2852	2763	5282
1987-88	2705	2755	6254	6588	5554	4086	6578	7467	6435	3495	<u>4015</u>	3987	4991
1988-89	3978	7580	7173	7596	8493	5649	5790	5648	5668	4705	2746	2683	5621
MEAN	3395	6899	9742	8469	7631	6611	6966	7963	7603	4384	2354	2117	6172
MEDIAN	3080	6648	9216	8469	6792	6085	7096	7914	7037	3829	2155	1815	6198

MAY3H

USGS # 14237810

MAYFIELD

River: COWLITZ

Drainage Area:

1400 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

52

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	1177	2	-26	-19	-11	22	94
1962-63	-8	260	-185	-42	647	438	-106	56	-2	27	17	-82	81
1963-64	-99	152	-36	15	-163	69	-57	224	-46	-4	34	-14	7
1964-65	-41	65	-46	2	-217	19	204	-146	-90	112	-109	-10	-20
1965-66	-8	9	-1	203	-196	121	14	94	-135	142	-66	-8	16
1966-67	-77	7	50	67	-20	-80	-28	109	22	9	28	-70	2
1967-68	25	-28	31	-10	46	-1	-181	95	56	1	-10	-32	0
1968-69	-24	90	-5	-142	33	4	22	14	7	35	12	-26	1
1969-70	41	-163	81	32	-108	66	31	22	-33	52	-11	-92	-5
1970-71	38	-35	98	-104	-31	106	-77	34	53	-22	42	-88	2
1971-72	34	-69	44	1	-21	33	-11	-109	150	29	-12	-30	3
1972-73	-14	14	-10	14	20	-52	-58	100	17	12	-14	-256	-19
1973-74	214	-50	73	-66	-69	29	60	45	7	5	11	-176	8
1974-75	158	-34	16	-10	-60	44	-9	56	-17	-2	-19	-17	10
1975-76	-27	93	-174	84	41	-75	-5	92	-4	4	14	-23	1
1976-77	2	2	-75	70	-1	30	-21	-6	27	-25	21	-14	1
1977-78	-30	4	-4	34	29	-2	-17	25	-13	-2	9	-67	-3
1978-79	37	29	-43	11	31	-235	153	79	-7	3	2	-81	-2
1979-80	68	-28	-27	-19	-14	73	-48	89	-45	17	18	-64	2
1980-81	36	14	-121	122	-68	61	-12	-21	6	34	-21	25	5
1981-82	-35	18	-17	11	13	3	-62	52	0	15	6	-26	-2
1982-83	6	11	-90	63	-37	26	-11	-2	15	6	0	-10	-1
1983-84	29	-9	-8	-35	14	5	10	12	3	-6	14	-14	1
1984-85	22	-4	-5	-5	-30	-9	-10	41	-59	65	-18	-12	-1
1985-86	-42	55	15	-26	-27	32	-13	46	-13	-5	1	0	2
1986-87	-19	-8	1	34	-13	-1	-13	6	1	-16	8	20	0
1987-88	-13	-56	73	-39	-30	36	5	13	-13	-5	8	6	-1
1988-89	-18	13	12	-34	-8	6	-12	25	20	5	1	0	1
MEAN	9	13	-13	8	-9	28	33	37	-4	17	-2	-42	7

MAY3S

USGS # 14237810

MAYFIELD

River: COWLITZ

Drainage Area:

1400 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cubic feet per second

River Mile:

52

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	4	0
1959-60	-1	1	-4	0	-1	3	-1	7	-2	-4	-2	-2	0
1960-61	4	0	-2	2	0	-2	3	3	-1	-4	-1	-2	0
1961-62	1	1	0	0	0	-1	1181	4	-22	-24	-14	22	94
1962-63	-8	262	-187	-45	651	437	-106	63	-6	24	16	-84	81
1963-64	-79	157	-38	15	-164	68	-57	221	-44	-14	32	-30	6
1964-65	-53	65	-4	19	-269	17	227	-146	-89	113	-110	-19	-19
1965-66	5	1	-4	186	-205	119	38	104	-139	145	-60	-52	14
1966-67	-43	3	39	68	-26	-82	-5	110	35	-3	27	-91	3
1967-68	48	-35	38	-32	62	-14	2979	5058	5881	1242	1080	1915	1514
1968-69	2229	1727	-1704	-2233	-2509	-319	3485	8104	648	-229	-1806	-1003	567
1969-70	-2749	-3294	-2086	4344	766	-1505	-1195	2905	4834	841	-877	-2325	-30
1970-71	-3442	-2407	-1036	2645	1313	-3182	-1006	6766	2488	1031	-83	-1924	96
1971-72	-2071	-2252	-2406	454	2982	2383	-1834	3741	265	922	-494	-466	99
1972-73	-4336	-1814	1033	-1333	-2167	-1342	823	2952	2595	-642	-2128	-1260	-630
1973-74	-118	1351	1048	2710	-2695	895	485	1699	2658	-514	529	-1134	600
1974-75	-2256	-2472	162	2300	-3937	-1424	-3594	8721	4851	-196	179	-887	-9
1975-76	-1773	-1407	-1301	313	-2536	-4322	1684	7038	2988	-162	506	-1019	9
1976-77	-3735	-4658	-2979	-3170	-936	246	4437	4597	4239	102	-253	537	-138
1977-78	-239	-923	-1410	-2643	-1055	537	2647	4202	1603	-87	-299	17	199
1978-79	-2789	-3774	-3308	-3310	1578	4660	2998	3984	160	155	-496	-728	-83
1979-80	-1435	-3081	-249	-624	2262	-118	4152	301	-73	-386	-1054	-2173	-219
1980-81	-4760	-121	4640	-3955	3268	665	3747	940	61	-144	-387	-752	237
1981-82	-1651	-2848	-349	528	3802	-2667	840	3091	579	99	-593	-842	-26
1982-83	-1183	-2992	-768	1	1593	895	609	2651	532	-68	-533	-1300	-52
1983-84	-2200	-1736	-4361	4256	741	1899	1063	2483	37	-949	-1351	-1425	-129
1984-85	-1984	-570	-3314	-3685	-1875	-205	5463	6935	2237	-6132	-1273	-1202	-477
1985-86	403	1502	-2328	1547	4378	1049	-228	2667	-255	-418	-882	-1555	465
1986-87	-1776	1824	-5692	-1690	2505	3264	2300	2903	25	-2580	-1549	-1732	-214
1987-88	-1955	-1553	385	-2043	889	3589	4845	2139	-209	-352	-2297	-2582	66
1988-89	-1898	1423	-960	260	-3726	2202	4722	2065	794	-1653	-1147	-1419	72
MEAN	-1328	-921	-905	-176	156	258	1357	2810	1222	-330	-504	-759	68

MAY3SS

USGS # 14237810

MAYFIELD

River: COWLITZ

Drainage Area:

1400 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cubic feet per second

River Mile:

52

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										3595	1919	1366	
1928-29	2585	2768	3435	3178	<u>2041</u>	5372	6291	11650	10170	3880	2030	1261	4568
1929-30	1252	888	3780	2988	11920	5608	7552	6503	4834	2677	1528	1095	4162
1930-31	1526	1966	1994	6527	5482	6426	10660	7387	4129	2194	1405	1162	4225
1931-32	2303	4836	5056	6387	6396	12670	10300	10760	10090	4957	2053	1189	6414
1932-33	2034	13140	9219	9130	3484	6564	6895	9300	15110	7964	3554	2870	7449
1933-34	6679	7175	<u>33830</u>	<u>20700</u>	7353	9327	7412	5563	<u>3169</u>	2001	1496	1226	8884
1934-35	4852	12190	10080	9276	7651	5327	5540	8675	8061	4047	1931	1511	6584
1935-36	1205	1556	2644	8927	3980	7485	9160	13320	10100	3590	1899	1443	5449
1936-37	1122	<u>826</u>	5242	<u>2441</u>	3550	7233	10340	11210	12720	5004	2174	1808	5308
1937-38	1838	11610	10780	10870	4646	5874	9989	10030	6985	3199	1776	1340	6584
1938-39	1615	3994	7021	7617	6128	6705	7784	8536	6172	3598	1739	1367	5186
1939-40	1462	2020	7860	4873	9268	8785	6685	7375	3235	1830	1349	1210	4652
1940-41	1562	3152	5472	4879	3292	<u>3115</u>	<u>3546</u>	<u>4781</u>	3227	1945	1368	2337	<u>3224</u>
1941-42	4199	5391	11500	4148	4821	3866	5527	6004	7140	3849	1997	1291	4981
1942-43	1173	10050	10100	6230	8152	6085	<u>11550</u>	7914	8317	5493	2198	1458	6532
1943-44	1676	2498	4960	4051	4519	4116	5126	6336	4589	2216	1424	1574	3587
1944-45	1497	2722	3908	8174	8052	5241	6432	12240	6283	2943	1650	1821	5064
1945-46	1818	6292	8804	9609	6469	7405	7657	12580	10140	6439	2476	1615	6781
1946-47	3096	7651	18700	7454	9172	6152	7764	7445	5392	3050	1639	1655	6587
1947-48	7642	10550	7584	8294	6792	5456	6528	12300	12410	4473	2433	1897	7191
1948-49	3297	6511	7996	2898	6300	8504	9475	<u>15500</u>	9430	5183	2523	1834	6621
1949-50	3020	7665	7863	7783	10120	11970	9461	10780	13850	8226	3164	1858	7959
1950-51	5279	11810	15220	9558	13990	5850	8552	9486	6330	3175	1703	1345	7648
1951-52	5817	6080	7633	3371	7733	4465	8612	9684	6437	3798	1831	1249	5547
1952-53	1048	888	<u>1879</u>	17320	11060	4571	6328	9228	8471	6073	2486	1650	5892
1953-54	2233	4973	15680	8469	11050	6566	8353	11200	10750	7988	3521	2375	7749
1954-55	2746	6055	5457	5729	7124	3828	7096	9133	14630	7729	3062	2041	6198
1955-56	7326	<u>15080</u>	16480	9428	4434	7250	11040	14230	11730	7165	2936	1809	9093
1956-57	3644	5582	12420	3812	6027	9875	8348	10240	6012	2803	1772	1316	5994
1957-58	1505	3081	7906	8496	10020	4857	8457	10420	6198	2723	1675	1346	5529
1958-59	2368	14060	12120	13360	5716	5786	8376	8882	8828	4364	2135	<u>3849</u>	7488
1959-60	<u>8051</u>	12750	8752	4219	8562	6392	8742	10460	8668	3681	2132	1758	6995
1960-61	2522	11650	6638	9250	16450	9812	8057	10280	9354	3805	2005	1598	7545
1961-62	2314	4042	9405	9249	5093	4058	9931	7317	7251	3849	2258	1619	5534
1962-63	3072	11390	9811	4803	10000	4642	7929	7083	4563	2733	1877	1585	5750
1963-64	1936	6805	6089	10680	6499	5293	6889	9212	14010	7417	3312	2266	6693
1964-65	2846	4955	16360	13010	11440	5446	7831	7805	6758	3230	1952	1372	6898
1965-66	1547	2941	3738	6054	4022	7139	9439	10250	6897	4373	1916	1437	4985
1966-67	2080	4502	11830	12840	8453	5365	4056	9584	11020	4159	1937	1406	6432
1967-68	5106	5452	7825	9287	14480	6952	5129	6580	7429	2734	2592	3439	6384
1968-69	5717	10920	9162	10320	4014	5046	8011	13140	8678	3219	1728	2056	6850
1969-70	3121	3801	5781	13790	9366	5700	5584	7704	7418	2910	1513	1600	5672
1970-71	2040	5969	8246	13870	11160	6570	7037	13660	11380	8623	3261	2225	7824
1971-72	2554	5984	7679	11800	13980	<u>20680</u>	8789	14850	13120	7627	3255	2933	9432
1972-73	1875	3962	12510	8443	3476	4252	4216	6183	4707	2530	1518	1486	4617
1973-74	2246	8901	12370	18030	8470	8489	9727	11390	<u>19140</u>	<u>9103</u>	<u>3706</u>	1953	<u>9464</u>
1974-75	1369	3513	9379	15650	7054	6966	3935	9609	10550	6523	2662	1819	6600
1975-76	3515	8994	22870	14240	6484	4914	6999	11560	7717	6161	3445	1995	8270
1976-77	1374	2065	2215	2810	2524	4542	6837	6467	6128	2044	1882	2665	3460
1977-78	2205	12450	24760	6938	5349	4592	5769	7413	5924	3203	2043	2689	6960
1978-79	1340	3073	6064	2589	7829	8273	6049	9230	4677	2666	1589	1597	4563
1979-80	1941	1842	12090	6646	8930	6554	8963	6895	5066	2623	1555	1542	5379
1980-81	1047	6789	16870	5565	11980	4244	7651	6339	8199	3202	1746	1569	6222
1981-82	3327	4840	10250	9823	<u>18710</u>	8544	6666	9840	10060	4029	1934	1627	7397
1982-83	2822	5154	10120	13160	7867	8867	5713	7735	6332	5422	2548	2201	6502
1983-84	1414	12210	6420	13740	7151	7808	6440	9650	9816	4709	2072	1548	6907
1984-85	2197	7616	5380	3681	3423	3887	8975	9462	9712	3203	1564	1648	5055
1985-86	4000	7675	3518	7350	11440	8528	4730	7355	4515	2024	1368	1216	5268
1986-87	1437	9675	5519	5290	8014	9628	6760	7001	3707	<u>1766</u>	<u>1303</u>	<u>1031</u>	5068
1987-88	<u>750</u>	1202	6639	4545	6443	7675	11420	9606	6226	3143	1718	1405	5057
1988-89	2081	9003	6213	7856	4766	7851	10510	7714	6462	3052	1599	1264	5693
MEAN	2742	6446	9297	8385	7708	6738	7633	9345	8204	4224	2110	1737	6207
MEDIAN	2205	5969	7906	8174	7151	6392	7657	9300	7429	3640	1932	1598	6384

MAY3A

USGS # 12057100

CUSHMAN 1

River: N. FK. SKOKOMISH

Drainage Area:

94 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

19.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										18	-170	-505	
1928-29	-231	7	-274	-1035	-1250	-45	119	698	786	137	-340	-601	-163
1929-30	-584	-867	491	-96	1174	520	937	441	176	50	20	-384	150
1930-31	-550	-340	-358	1362	649	472	4	-27	19	-79	-137	-201	65
1931-32	40	-209	292	-250	417	-280	40	255	-24	101	-34	-137	16
1932-33	-70	-50	-182	51	-69	71	117	276	60	-55	-186	52	1
1933-34	20	-320	578	-180	-82	-24	109	-15	-26	12	-150	-228	-22
1934-35	4	78	-166	561	-303	-182	47	204	102	-5	-172	-96	8
1935-36	-306	-211	483	-13	60	-270	258	352	-1	-124	-257	-430	-38
1936-37	-534	-669	412	-336	-193	520	790	793	15	-175	-364	-439	-13
1937-38	49	881	77	-406	43	-41	163	78	71	-150	-323	-497	-7
1938-39	-193	79	284	483	-90	-50	26	100	-94	-296	-513	-662	-76
1939-40	-578	-86	2195	323	17	-18	80	69	-186	-231	-399	-444	64
1940-41	326	88	549	27	-148	-126	-48	404	-16	-400	-524	-174	-2
1941-42	-145	300	808	-263	-223	-531	286	402	434	30	-10	-79	85
1942-43	-435	111	-203	-224	-117	288	649	128	-12	130	-52	-419	-13
1943-44	-158	-722	-78	440	-623	22	393	398	301	61	5	-135	-4
1944-45	-389	73	-528	190	301	-429	49	990	126	113	-74	-398	0
1945-46	-347	253	18	-221	-271	-178	444	590	185	37	-206	-302	1
1946-47	-314	170	-43	-506	468	-146	271	253	306	97	-10	-288	17
1947-48	46	-361	73	-435	-128	-240	280	872	127	58	-38	-79	16
1948-49	-348	-50	-405	-529	283	438	462	-15	203	129	-96	-110	-7
1949-50	-355	521	-287	-361	370	-441	218	349	138	112	-101	-161	-5
1950-51	-12	49	-7	-432	142	-674	180	461	494	95	-77	-109	7
1951-52	-329	-128	-834	-107	205	-9	710	513	148	38	-44	-362	-19
1952-53	-475	-435	84	1147	-339	-246	317	182	100	40	-126	-169	10
1953-54	-435	159	88	-158	344	8	71	137	115	17	-68	-234	1
1954-55	-272	304	-111	-432	-25	-518	300	631	437	16	-168	-426	-24
1955-56	228	-125	13	4	-570	-187	613	540	8	18	-56	-534	-1
1956-57	-112	-258	62	-599	866	467	105	121	-13	-32	-240	-744	-37
1957-58	-200	-367	396	787	209	-43	65	149	14	-1	-271	-377	31
1958-59	-691	154	911	15	-352	226	405	-24	-38	-1	-306	9	27
1959-60	-28	0	-85	-257	-72	4	488	201	40	55	-191	-208	-5
1960-61	-386	-96	-169	629	163	57	43	97	52	16	6	-600	-15
1961-62	-327	-828	-171	-186	411	344	636	298	331	109	-10	-216	30
1962-63	-335	229	37	-1093	665	359	334	65	-25	67	-14	-79	11
1963-64	-305	36	-49	-451	-563	-355	246	611	784	115	16	-223	-11
1964-65	-281	-241	-113	-93	447	-434	251	411	237	69	13	-300	-7
1965-66	-674	-503	-747	439	263	129	660	679	46	24	-1	-849	-46
1966-67	-1297	114	1602	115	-314	-442	-223	831	410	5	2	-226	51
1967-68	-67	-497	-240	678	149	67	-594	573	106	25	-63	-219	-4
1968-69	-387	169	44	-883	6	444	32	816	22	9	-127	-359	-18
1969-70	-543	-664	-502	-266	246	439	608	284	547	218	-554	-948	-97
1970-71	-554	-192	-569	-207	705	897	679	737	117	73	-101	-1129	34
1971-72	-842	517	-1058	-681	1051	1615	-145	659	-74	221	-127	-362	60
1972-73	-532	-815	142	-211	-693	-283	42	716	611	105	-305	133	-87
1973-74	-241	479	798	178	-465	282	-232	147	366	71	-150	-144	95
1974-75	-1162	15	205	-128	285	313	-517	643	440	259	12	-402	-4
1975-76	369	-288	-13	-117	-918	-435	202	843	508	261	-161	-386	-7
1976-77	-768	-581	-220	-818	-17	-343	443	593	534	157	181	380	-41
1977-78	91	-26	-199	-329	175	-167	418	560	538	-4	-134	-197	58
1978-79	-903	-319	-848	-431	798	958	502	441	174	-6	-159	-226	-9
1979-80	-842	971	91	-1019	1069	-371	660	-20	-13	-253	-131	-56	-3
1980-81	-295	-260	670	-598	199	-179	199	282	404	-36	-290	-313	-20
1981-82	102	-298	-332	18	499	-192	644	47	159	60	-120	-1417	-72
1982-83	-843	-1034	-131	212	2223	401	317	472	76	48	-74	-1507	1
1983-84	-1636	1093	-1143	-131	1116	875	452	688	316	-120	-192	-1132	8
1984-85	-1117	-265	-842	20	167	388	654	680	601	198	-163	-638	-29
1985-86	74	-1225	-771	1639	752	950	142	200	56	-161	-370	-1621	-27
1986-87	-653	-94	-308	-126	514	1407	429	850	96	-5	-155	-903	86
1987-88	-923	-435	-21	-568	313	367	866	855	636	-80	134	-590	44
1988-89	-813	125	-1385	-1103	443	661	906	646	612	0	-1215	-1940	-263
MEAN	-385	-113	-33	-114	170	100	289	413	208	21	-160	-425	-4

CS13S

USGS # 12057100

CUSHMAN 1

River: N. FK. SKOKOMISH

Drainage Area:

94 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

19.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										233	93	113	
1928-29	420	929	763	381	<u>202</u>	579	645	794	834	355	171	129	518
1929-30	137	111	756	309	1270	587	970	483	331	164	90	123	438
1930-31	273	442	504	1660	882	990	926	634	669	255	141	242	634
1931-32	551	951	1240	810	941	1010	1060	943	911	477	189	155	769
1932-33	262	1470	948	929	411	894	706	1100	1150	864	350	553	804
1933-34	730	668	2719	1789	855	986	567	596	<u>216</u>	270	148	128	810
1934-35	832	2279	1089	2212	1161	761	547	787	756	390	165	348	942
1935-36	254	434	1041	1214	551	631	563	1032	892	375	146	133	607
1936-37	99	<u>84</u>	942	282	456	901	1152	1272	1313	512	152	111	607
1937-38	631	2008	1776	963	637	933	891	916	707	288	129	99	832
1938-39	523	707	1002	1514	591	578	615	655	440	261	137	119	597
1939-40	258	583	2596	1565	1441	1168	727	824	283	<u>142</u>	88	125	817
1940-41	1138	846	1338	1162	1069	715	524	725	324	148	83	400	705
1941-42	571	1085	1865	653	696	403	503	561	628	298	190	58	626
1942-43	151	941	921	546	680	701	<u>1268</u>	558	491	270	109	88	558
1943-44	502	446	794	1094	593	449	511	509	377	151	97	128	471
1944-45	255	1380	656	1066	1463	726	489	1243	555	256	61	172	688
1945-46	237	1115	1439	1085	860	766	986	1156	990	654	224	149	805
1946-47	292	803	1508	754	1804	578	529	<u>460</u>	395	210	95	77	618
1947-48	1399	603	1214	856	687	473	722	1429	1112	380	187	403	790
1948-49	494	959	674	241	897	1093	866	1245	692	386	167	166	655
1949-50	217	1800	1491	848	1247	1133	807	891	1220	696	325	150	898
1950-51	1155	1451	2261	1067	1738	492	813	801	595	256	107	206	907
1951-52	938	1026	663	674	996	568	870	1152	782	494	261	123	711
1952-53	98	314	1077	<u>3036</u>	1034	537	642	992	691	595	241	279	796
1953-54	589	1569	1405	1074	1851	804	776	786	707	710	317	199	892
1954-55	718	2455	1242	562	696	<u>392</u>	727	687	961	595	254	189	787
1955-56	838	1754	1162	1118	354	751	1038	<u>1537</u>	<u>1559</u>	969	341	255	975
1956-57	959	639	1237	371	1371	1111	894	868	431	278	189	127	703
1957-58	452	579	1202	1768	2189	722	819	880	554	204	95	112	790
1958-59	439	1159	1619	1802	605	661	1040	844	756	367	136	512	830
1959-60	469	1137	1193	1178	1366	804	1031	870	755	350	164	126	784
1960-61	516	1039	1130	2213	2170	1371	772	1069	879	363	163	132	978
1961-62	379	908	1130	965	862	510	725	702	629	324	223	266	633
1962-63	977	1587	1521	715	1627	627	845	791	406	330	162	111	802
1963-64	1002	1793	1251	1390	629	581	507	617	1089	615	313	176	831
1964-65	270	801	847	851	1117	556	877	676	581	257	140	77	583
1965-66	373	1159	1193	1222	750	1020	890	934	724	460	199	58	749
1966-67	385	1244	<u>2872</u>	1525	791	1029	470	876	1090	496	198	142	930
1967-68	1706	875	1228	2168	1905	1289	<u>360</u>	809	778	388	244	313	1005
1968-69	714	1108	1437	640	664	789	1031	1452	1168	378	168	628	848
1969-70	420	770	1286	1380	923	820	788	537	556	220	<u>49</u>	161	658
1970-71	599	1083	1208	1328	1116	1079	794	1499	1105	966	<u>467</u>	231	956
1971-72	419	1293	667	1017	1500	<u>2024</u>	1044	1020	815	606	195	392	913
1972-73	69	1046	1735	1241	684	676	448	797	633	257	203	166	664
1973-74	462	1480	2018	2198	858	1533	907	942	1350	<u>999</u>	378	205	<u>1114</u>
1974-75	<u>33</u>	1125	1484	958	769	753	477	1004	922	550	408	186	723
1975-76	<u>1736</u>	1927	1954	1269	758	638	674	893	733	620	257	157	970
1976-77	200	254	454	464	645	676	708	606	534	157	181	392	<u>437</u>
1977-78	790	1401	1597	1335	1065	934	770	783	605	271	355	<u>868</u>	896
1978-79	219	383	<u>382</u>	<u>196</u>	1099	1038	488	792	397	274	98	400	476
1979-80	955	605	2720	974	1997	751	985	524	382	297	102	97	863
1980-81	100	1556	2061	896	1700	557	641	483	441	163	61	280	737
1981-82	1036	1699	1832	910	1757	836	825	816	1148	500	207	109	967
1982-83	966	877	1740	1752	<u>2285</u>	1711	697	830	744	603	267	188	1050
1983-84	160	<u>2994</u>	776	1089	1122	1079	671	888	772	498	204	92	858
1984-85	667	1544	713	384	349	406	839	685	643	269	116	213	568
1985-86	1033	707	478	1855	1390	1068	477	740	501	171	66	75	711
1986-87	381	1222	1134	1290	1339	1740	686	926	528	227	87	90	802
1987-88	58	472	1449	802	530	705	950	891	783	351	163	167	611
1988-89	304	1300	736	682	661	990	1014	710	612	462	157	<u>40</u>	638
MEAN	554	1098	1301	1120	1060	847	764	861	732	402	185	205	760
MEDIAN	462	1046	1214	1067	923	761	772	824	707	353	166	156	787

CS13A

USGS # 12058610

CUSHMAN 2

River: N. FK. SKOKOMISH

Drainage Area:

99 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

17.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										234	93	114	
1928-29	423	939	778	399	<u>217</u>	590	651	798	837	356	171	130	525
1929-30	140	121	771	327	1285	598	976	487	334	165	90	124	445
1930-31	276	452	519	1678	897	1001	932	638	672	256	141	243	641
1931-32	554	961	1255	828	956	1021	1066	947	914	478	189	156	776
1932-33	265	1480	963	947	426	905	712	1104	1153	865	350	554	812
1933-34	733	678	2734	1807	870	997	573	600	<u>219</u>	271	148	129	817
1934-35	835	2289	1104	2230	1176	772	553	791	759	391	165	349	949
1935-36	257	444	1056	1232	566	642	569	1036	895	376	146	134	614
1936-37	102	<u>94</u>	957	300	471	912	1158	1276	1316	513	152	112	614
1937-38	634	2018	1791	981	652	944	897	920	710	289	129	100	839
1938-39	526	717	1017	1532	606	589	621	659	443	262	137	120	604
1939-40	261	593	2611	1583	1456	1179	733	828	286	<u>143</u>	88	126	825
1940-41	1141	856	1353	1180	1084	726	530	729	327	149	83	401	712
1941-42	574	1095	1880	671	711	414	509	565	631	299	190	59	633
1942-43	154	951	936	564	695	712	<u>1274</u>	562	494	271	109	89	565
1943-44	505	456	809	1112	608	460	517	513	380	152	97	129	479
1944-45	258	1390	671	1084	1478	737	495	1247	558	257	61	173	695
1945-46	240	1125	1454	1103	875	777	992	1160	993	655	224	150	812
1946-47	295	813	1523	772	1819	589	535	<u>464</u>	398	211	95	78	625
1947-48	1402	613	1229	874	702	484	728	1433	1115	381	187	404	797
1948-49	497	969	689	259	912	1104	872	1249	695	387	167	167	662
1949-50	220	1810	1506	866	1262	1144	813	895	1223	697	325	151	906
1950-51	1158	1461	2276	1085	1753	503	819	805	598	257	107	207	914
1951-52	941	1036	678	692	1011	579	876	1156	785	495	261	124	718
1952-53	101	324	1092	<u>3054</u>	1049	548	648	996	694	596	241	280	803
1953-54	592	1579	1420	1092	1866	815	782	790	710	711	317	200	899
1954-55	721	2465	1257	580	711	<u>403</u>	733	691	964	596	254	190	795
1955-56	841	1764	1177	1136	369	<u>762</u>	1044	<u>1541</u>	<u>1562</u>	970	341	256	982
1956-57	962	649	1252	389	1386	1122	900	872	434	279	189	128	710
1957-58	455	589	1217	1786	2204	733	825	884	557	205	95	113	797
1958-59	442	1169	1634	1820	620	672	1046	848	759	368	136	513	837
1959-60	472	1147	1208	1196	1381	815	1037	874	758	351	164	127	791
1960-61	519	1049	1145	2231	2185	1382	778	1073	882	364	163	133	985
1961-62	382	918	1145	983	877	521	731	706	632	325	223	267	641
1962-63	980	1597	1536	733	1642	638	851	795	409	331	162	112	809
1963-64	1005	1803	1266	1408	644	592	513	621	1092	616	313	177	838
1964-65	273	811	862	869	1132	567	883	680	584	258	140	78	590
1965-66	376	1169	1208	1240	765	1031	896	938	727	461	199	59	756
1966-67	388	1254	<u>2867</u>	1543	806	1040	476	880	1093	497	198	143	937
1967-68	1709	885	1243	2186	1920	1300	<u>366</u>	813	781	389	244	314	1012
1968-69	717	1118	1452	658	679	800	1037	1456	1171	379	168	629	855
1969-70	423	780	1301	1398	938	831	794	541	559	221	<u>49</u>	162	665
1970-71	602	1093	1223	1346	1131	1090	800	1503	1108	967	<u>467</u>	232	964
1971-72	422	1303	682	1035	1515	<u>2035</u>	1050	1024	818	607	195	393	920
1972-73	72	1056	1750	1259	699	687	454	801	636	258	203	167	671
1973-74	465	1490	2033	2216	873	1544	913	946	1353	<u>1000</u>	378	206	<u>1122</u>
1974-75	<u>36</u>	1135	1499	976	784	764	483	1008	925	551	408	187	730
1975-76	<u>1739</u>	1937	1969	1287	773	649	680	897	736	621	257	158	977
1976-77	203	264	469	482	660	687	714	610	537	158	181	393	<u>444</u>
1977-78	793	1411	1612	1353	1080	945	776	787	608	272	355	<u>869</u>	903
1978-79	222	393	<u>397</u>	<u>214</u>	1114	1049	494	796	400	275	98	401	483
1979-80	958	615	2735	992	2012	762	991	528	385	298	102	98	871
1980-81	103	1566	2076	914	1715	568	647	487	444	164	61	281	744
1981-82	1039	1709	1847	928	1772	847	831	820	1151	501	207	110	974
1982-83	969	887	1755	1770	<u>2300</u>	1722	703	834	747	604	267	189	1057
1983-84	163	<u>3004</u>	791	1107	1137	1090	677	892	775	499	204	93	865
1984-85	670	1554	728	402	364	417	845	689	646	270	116	214	575
1985-86	1036	717	493	1873	1405	1079	483	744	504	172	66	76	718
1986-87	384	1232	1149	1308	1354	1751	692	930	531	228	87	91	809
1987-88	61	482	1464	820	545	716	956	895	786	352	163	168	618
1988-89	307	1310	751	700	676	1001	1020	714	615	463	157	<u>41</u>	645
MEAN	557	1108	1316	1138	1075	858	770	865	735	403	185	206	767
MEDIAN	465	1056	1229	1085	938	772	778	828	710	354	166	157	795

CS23A

USGS # 12085010

ALDER

River: NISQUALLY

Drainage Area:

286 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile:

44.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	302	701	1651	452	16	-210	-504	474	5	73	-130	235
1945-46	-1044	626	532	107	47	-117	190	-24	96	-30	-31	-285	4
1946-47	-388	381	-388	92	-46	84	105	337	196	-61	-33	-473	-17
1947-48	434	-53	5	-135	-2	-662	179	505	282	-7	-68	-127	29
1948-49	-336	465	-410	-850	347	243	345	256	119	101	-95	-351	-18
1949-50	-155	267	-969	-275	897	167	219	185	276	50	-118	-347	8
1950-51	9	-150	-33	37	49	-391	117	165	248	250	61	-263	8
1951-52	92	-255	-434	-634	408	-512	930	469	187	234	-221	-217	0
1952-53	-849	-321	-218	1803	-164	-456	-255	491	182	283	-167	-253	10
1953-54	-625	279	581	-149	145	-91	247	-78	144	-4	-45	-152	19
1954-55	-445	360	155	-536	-206	-622	179	390	895	93	-181	-230	-14
1955-56	251	-43	16	-66	-918	223	469	385	21	-13	-73	-440	-11
1956-57	-226	-246	613	-1190	364	683	89	261	25	173	-109	-228	16
1957-58	-811	-399	595	650	164	-463	497	-78	114	91	-237	-930	-68
1958-59	-455	1590	10	-123	-583	-283	372	466	129	26	-225	-40	74
1959-60	120	-77	-237	-681	186	-63	406	564	-51	137	-359	-317	-32
1960-61	-520	990	-258	222	23	-3	-136	-145	489	44	11	-903	-17
1961-62	-107	-530	462	-319	-555	411	520	255	371	307	-10	-109	63
1962-63	-599	494	-94	-959	205	103	920	42	-22	91	12	-557	-35
1963-64	-273	560	-335	338	-849	-825	-42	798	965	178	11	-295	21
1964-65	-394	-87	526	-149	232	-1121	352	281	350	325	-17	-152	9
1965-66	-728	-596	-309	72	-292	538	644	540	228	54	-20	-313	-13
1966-67	-1276	-66	1137	278	-289	-483	-920	913	752	232	15	-219	10
1967-68	39	-814	127	374	489	9	-513	196	286	12	-42	-127	3
1968-69	-442	388	-241	-412	-1031	-209	483	1172	351	29	-50	-259	-13
1969-70	-575	-388	79	1170	-209	-793	-306	219	626	347	-86	-417	-25
1970-71	-648	-113	276	1086	-165	-276	-429	441	72	329	-79	-348	16
1971-72	-1059	-303	-294	1141	779	-578	-202	307	263	361	-3	-246	11
1972-73	-665	-426	878	-340	-1227	-151	256	612	554	143	-326	-264	-71
1973-74	-353	373	734	-335	-580	-17	-86	98	1049	-15	216	-364	63
1974-75	-790	110	583	-50	-309	-600	-559	1306	227	314	77	-231	10
1975-76	68	51	-193	-70	-738	-892	490	910	378	199	-2	-173	4
1976-77	-1104	-267	-117	32	50	90	451	780	237	46	11	-782	-48
1977-78	-578	546	-379	-41	-236	-110	633	788	165	-5	-106	-84	49
1978-79	-430	-449	-352	-455	1152	387	235	42	-140	-150	-316	-188	-64
1979-80	-194	-422	1072	-262	435	-597	966	-146	116	-118	-280	-231	25
1980-81	-409	508	386	-565	586	-351	563	-14	15	-277	-309	-334	-24
1981-82	108	38	315	189	-91	-173	175	65	207	-245	-245	-273	6
1982-83	-206	278	84	159	377	-267	-125	177	206	207	-172	-356	28
1983-84	-527	610	-73	270	-449	366	-145	309	94	-90	-216	-328	-13
1984-85	-427	571	-845	-342	-43	-21	995	654	87	-375	-357	-391	-45
1985-86	383	-428	-516	1164	355	29	-185	286	-178	-432	-221	-366	-9
1986-87	-339	1201	-373	-284	-124	778	99	79	-109	-366	-182	-200	14
1987-88	-351	-260	760	-9	-76	664	394	40	-82	-306	-236	-305	21
1988-89	-227	739	-279	116	-879	323	775	179	-12	-383	-304	-281	-16
MEAN	-388	112	73	38	-52	-134	204	333	242	40	-112	-308	4

ALD3S

USGS # 12085510

LAGRANDE

River: NISQUALLY

Drainage Area:

289 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

42.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										861	553	450	
1928-29	742	747	963	738	<u>440</u>	1292	1419	2083	1723	874	633	404	1009
1929-30	<u>290</u>	207	1271	656	2398	1237	1275	1083	785	677	544	404	893
1930-31	427	469	547	1890	1390	1750	2050	1200	1160	865	646	502	1072
1931-32	861	1409	1734	1741	1931	2872	2283	1838	1670	1089	648	457	1543
1932-33	579	3618	2211	2258	746	1918	1399	1896	<u>2699</u>	1461	870	808	1708
1933-34	1677	1704	<u>7668</u>	4026	1179	1858	1308	1059	661	621	560	407	1909
1934-35	1565	3171	2087	2758	1762	1150	1137	1437	1260	842	547	480	1514
1935-36	318	458	857	2637	1190	1652	1711	2433	2004	896	590	465	1269
1936-37	363	<u>197</u>	1506	366	942	1869	2471	2084	2496	1067	568	526	1203
1937-38	528	3167	2685	2320	940	1431	2001	1570	1075	747	488	<u>400</u>	1448
1938-39	397	884	1665	2175	1458	1461	1472	1419	1110	845	569	425	1156
1939-40	440	540	2626	1249	2450	2073	1227	1366	709	559	471	405	1174
1940-41	490	850	1252	1387	786	671	742	1019	694	597	436	632	<u>797</u>
1941-42	1059	1318	2761	923	1213	846	924	1028	1556	975	598	401	1134
1942-43	319	2371	2213	1271	2061	1569	<u>2512</u>	1293	1350	970	520	450	1400
1943-44	465	620	1405	1338	1082	761	1032	1124	896	632	453	491	858
1944-45	370	435	<u>154</u>	<u>89</u>	1706	1366	1233	<u>2708</u>	638	730	<u>387</u>	638	866
1945-46	1615	1318	1769	2177	1561	1813	1544	2169	1741	1233	655	681	1525
1946-47	1214	1590	3956	1618	2203	1146	1355	779	742	741	482	921	1392
1947-48	1453	2398	1763	2384	1997	2015	1339	1973	1606	1047	771	689	1619
1948-49	1050	1217	2054	1431	1620	1746	1685	2599	1370	921	684	815	1433
1949-50	923	1754	2831	2467	1746	2658	1722	1846	2117	1381	969	906	1778
1950-51	1262	2974	3235	2253	3543	1621	1661	1475	853	490	452	710	1697
1951-52	1364	1774	2033	1715	1577	1573	893	1214	875	662	804	688	1265
1952-53	1240	593	925	2702	2351	1475	1484	1124	1205	887	860	805	1299
1953-54	1355	1182	2939	2320	3209	1511	1758	2020	1716	1394	883	788	1749
1954-55	1161	1533	1281	1783	1906	1523	1658	1682	1748	1535	<u>1104</u>	928	1484
1955-56	1831	<u>4000</u>	3964	2537	1693	1702	2024	2383	2000	1360	828	903	<u>2103</u>
1956-57	1215	1620	2159	1976	1613	1790	1751	1473	1163	587	663	784	1398
1957-58	1374	1316	1497	1835	2555	1497	1473	1570	1110	780	976	1448	1445
1958-59	1170	1741	2813	3779	1785	1793	1665	1306	1471	1047	907	1233	1728
1959-60	1796	3047	2104	1698	1780	1611	1563	1641	1490	840	1077	970	1633
1960-61	1333	2208	1887	2271	3748	2302	1845	1976	965	811	617	1274	1756
1961-62	743	1526	1735	2187	1612	<u>630</u>	1441	1295	872	527	620	639	1149
1962-63	1436	1870	2137	2021	2001	927	883	1265	814	644	602	1085	1303
1963-64	905	1607	1797	2500	2226	2093	1578	1117	1410	1157	841	859	1505
1964-65	1064	1518	2994	3538	2051	2185	1137	979	701	516	681	596	1498
1965-66	1177	1476	1488	1830	1211	1438	1469	1236	945	921	645	802	1221
1966-67	<u>1898</u>	1296	1922	2941	1951	1924	1827	964	990	679	602	688	1473
1967-68	1207	2027	1804	1943	2986	1552	1563	894	1426	771	868	1113	1504
1968-69	1668	1730	2541	2597	2105	1509	1390	1098	1159	786	653	920	1511
1969-70	1357	1298	1571	2401	2328	2054	1578	1041	588	<u>488</u>	675	910	1352
1970-71	1201	1457	2050	2256	2585	2085	2135	2237	1771	1219	998	934	1739
1971-72	1748	1832	1915	1756	2754	<u>5047</u>	1998	2166	1574	1005	874	1021	1974
1972-73	1136	1402	2399	2315	2063	1203	616	580	<u>458</u>	662	977	829	1217
1973-74	1021	1956	2559	<u>4858</u>	2539	2153	2287	2175	1736	<u>1613</u>	719	953	2047
1974-75	1158	1050	1755	3373	2124	2143	1450	678	1229	997	722	884	1461
1975-76	1250	2336	5199	3402	2288	2273	1247	1410	970	1058	985	933	1950
1976-77	1681	939	729	607	543	1170	1143	<u>531</u>	1187	644	909	<u>1745</u>	986
1977-78	1399	2586	5235	1951	1688	1284	<u>586</u>	536	876	886	806	901	1564
1978-79	919	1271	1677	1144	1108	1642	1197	1659	1158	1074	1031	912	1235
1979-80	998	1023	2237	1975	1982	2019	1008	1243	950	1028	916	798	1349
1980-81	805	1617	3819	1592	2245	1257	1330	1325	1805	1130	941	878	1558
1981-82	1002	1342	2429	1975	<u>4970</u>	2117	1428	1655	1373	1230	854	748	1740
1982-83	947	1049	2662	2981	1721	2415	1357	1087	1002	1105	976	1006	1529
1983-84	950	3124	2186	2109	2065	1500	1670	1677	1528	1200	903	804	1639
1984-85	1005	1872	1987	1100	899	948	930	1016	1662	1177	864	802	1190
1985-86	865	2080	1431	1121	2180	1774	1150	1207	1098	1033	810	789	1288
1986-87	866	1407	1667	1711	2073	1672	1287	1144	1037	951	690	634	1257
1987-88	650	629	1253	1288	1409	1108	2073	1783	1303	1104	805	768	1180
1988-89	847	1817	1676	1673	1980	1654	1364	1106	1046	1068	776	622	1298
MEAN	1052	1599	2191	2031	1906	1694	1487	1458	1268	931	735	772	1426
MEDIAN	1059	1518	1987	1975	1931	1642	1450	1325	1163	908	705	794	1445

LAG3H

USGS # 12085010

ALDER

River: NISQUALLY

Drainage Area:

286 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cubic feet per second

River Mile:

44.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										861	553	450	
1928-29	742	747	963	738	<u>440</u>	1292	1419	2083	1723	874	633	404	1009
1929-30	<u>290</u>	207	1271	656	2398	1237	1275	1083	785	677	544	404	893
1930-31	427	469	<u>547</u>	1890	1390	1750	2050	1200	1160	865	646	502	1072
1931-32	861	1409	1734	1741	1931	2872	2283	1838	1670	1089	648	457	1543
1932-33	579	3618	2211	2258	746	1918	1399	1896	2699	1461	870	808	1708
1933-34	1677	1704	<u>7668</u>	4026	1179	1858	1308	1059	<u>661</u>	621	560	407	1909
1934-35	1565	3171	2087	2758	1762	1150	1137	1437	1260	842	547	480	1514
1935-36	318	458	857	2637	1190	1652	1711	2433	2004	896	590	465	1269
1936-37	363	<u>197</u>	1506	<u>366</u>	942	1869	2471	2064	2496	1067	568	526	1203
1937-38	528	3167	2685	2320	940	1431	2001	1570	1075	747	488	400	1448
1938-39	397	884	1665	2175	1458	1461	1472	1419	1110	845	569	425	1156
1939-40	440	540	2626	1249	2450	2073	1227	1366	709	<u>559</u>	471	405	1174
1940-41	490	850	1252	1387	786	<u>671</u>	<u>742</u>	<u>1019</u>	694	597	<u>436</u>	632	<u>797</u>
1941-42	1059	1318	2761	923	1213	846	924	1028	1556	975	598	401	1134
1942-43	319	2371	2213	1271	2061	1569	<u>2512</u>	1293	1350	970	520	450	1400
1943-44	465	620	1405	1338	1082	761	1032	1124	896	632	453	491	858
1944-45	370	737	855	1741	2158	1383	1023	2204	1112	735	460	508	1101
1945-46	571	1945	2301	2283	1608	1697	1735	2144	1837	1203	624	397	1529
1946-47	826	1971	3568	1710	2157	1230	1460	1116	938	679	450	448	1375
1947-48	1887	2345	1768	2249	1995	1353	1518	2477	1888	1040	703	562	1648
1948-49	714	1682	1644	581	1967	1989	2030	<u>2855</u>	1489	1022	589	464	1414
1949-50	767	2021	1862	2192	2643	2825	1941	2031	2393	1431	852	558	1787
1950-51	1270	2824	3202	2289	3592	1229	1778	1640	1102	739	513	448	1706
1951-52	1456	1518	1599	1081	1986	1061	1823	1684	1062	896	583	471	1265
1952-53	391	272	707	4505	2187	1019	1229	1614	1387	1171	693	552	1308
1953-54	730	1461	3520	2172	3354	1420	2005	1942	1860	1390	838	636	1768
1954-55	716	1893	1436	1247	1700	900	1837	2072	2643	<u>1628</u>	923	698	1469
1955-56	<u>2081</u>	<u>3957</u>	3980	2470	776	1926	2493	2768	2021	1347	755	463	2092
1956-57	989	1374	2773	786	1977	2473	1840	1734	1188	760	554	556	1414
1957-58	563	917	2092	2485	2719	1034	1970	1492	1225	871	739	518	1377
1958-59	716	3331	2823	3655	1202	1510	2037	1772	1600	1073	682	<u>1193</u>	1802
1959-60	1916	2970	1867	1017	1966	1548	1969	2204	1440	977	718	653	1600
1960-61	812	3198	1629	2493	3771	2298	1709	1831	1454	855	628	371	1738
1961-62	636	996	2197	1867	1058	1041	1961	1550	1244	835	609	530	1212
1962-63	836	2364	2042	1062	2206	1030	1803	1307	792	735	614	528	1268
1963-64	632	2167	1461	2838	1377	1268	1536	1915	2375	1335	851	564	1526
1964-65	670	1432	3520	3390	2283	1064	1489	1260	1051	841	664	443	1507
1965-66	450	879	1180	1902	920	1976	2114	1776	1173	975	625	489	1208
1966-67	622	1230	3058	3219	1662	1441	907	1878	1742	911	617	469	1482
1967-68	1246	1213	1931	2317	3475	1560	1050	1090	1712	783	826	985	1508
1968-69	1226	2118	2301	2185	1074	1301	1873	2270	1510	815	603	661	1498
1969-70	782	909	1651	3571	2118	1261	1272	1260	1214	835	589	493	1327
1970-71	553	1344	2326	3343	2420	1809	1706	2678	1843	1548	919	586	1755
1971-72	689	1529	1621	2897	3533	<u>4469</u>	1795	2473	1837	1365	871	775	1985
1972-73	471	977	3277	1975	836	1052	873	1192	1011	805	651	565	1146
1973-74	668	2329	3293	<u>4524</u>	1959	2136	2202	2272	<u>2785</u>	1599	935	590	<u>2110</u>
1974-75	368	1161	2338	3323	1816	1542	891	1983	1456	1311	800	653	1472
1975-76	1318	2387	5006	3332	1549	1381	1737	2320	1347	1257	<u>982</u>	760	1954
1976-77	576	672	612	639	593	1260	1594	1311	1424	690	920	964	938
1977-78	821	3132	4856	1910	1453	1173	1220	1324	1041	881	701	816	1613
1978-79	489	822	1326	689	2260	2029	1432	1701	1019	924	715	724	1171
1979-80	804	600	3310	1713	2418	1422	1973	1097	1066	910	636	567	1374
1980-81	396	2126	4205	1027	2830	906	1892	1311	1820	853	632	545	1534
1981-82	1110	1380	2744	2164	<u>4879</u>	1945	1603	1719	1581	985	609	476	1746
1982-83	741	1326	2746	3140	2098	2148	1232	1263	1208	1312	804	649	1556
1983-84	423	3734	2113	2379	1616	1867	1526	1986	1622	1110	686	476	1626
1984-85	578	2443	1142	759	855	927	1926	1671	1749	802	507	411	1145
1985-86	1248	1651	914	2285	2535	1802	965	1493	920	601	589	423	1278
1986-87	527	2608	1294	1427	1950	2450	1386	1223	928	584	508	434	1270
1987-88	299	369	2013	1279	1333	1772	2467	1823	1220	799	568	464	1201
1988-89	620	2556	1397	1788	1101	1977	2139	1285	1034	684	472	<u>341</u>	1282
MEAN	772	1682	2245	2060	1868	1595	1638	1704	1446	959	653	548	1429
MEDIAN	668	1461	2042	2164	1931	1461	1709	1684	1350	878	625	497	1414

ALD3A

USGS # 12085510

LAGRANDE

River: NISQUALLY

Drainage Area:

289 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cubic feet per second

River Mile:

42.5

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										861	553	450	
1928-29	742	747	963	738	<u>440</u>	1292	1419	2083	1723	874	633	404	1009
1929-30	<u>290</u>	207	1271	656	2398	1237	1275	1083	785	677	544	404	893
1930-31	427	469	<u>547</u>	1890	1390	1750	2050	1200	1160	865	646	502	1072
1931-32	861	1409	1734	1741	1931	2872	2283	1838	1670	1089	648	457	1543
1932-33	579	3618	2211	2258	746	1918	1399	1896	2699	1461	870	808	1708
1933-34	1677	1704	<u>7668</u>	4026	1179	1858	1308	1059	<u>661</u>	621	560	407	1909
1934-35	1565	3171	2087	2758	1782	1150	1137	1437	1260	842	547	480	1514
1935-36	318	458	857	2637	1190	1652	1711	2433	2004	896	590	465	1269
1936-37	363	<u>197</u>	1506	<u>366</u>	942	1869	2471	2064	2496	1067	588	526	1203
1937-38	528	3167	2685	2320	940	1431	2001	1570	1075	747	488	400	1448
1938-39	397	884	1665	2175	1458	1461	1472	1419	1110	845	569	425	1156
1939-40	440	540	2626	1249	2450	2073	1227	1366	709	<u>559</u>	471	405	1174
1940-41	490	850	1252	1387	786	<u>671</u>	<u>742</u>	<u>1019</u>	694	597	<u>436</u>	632	<u>797</u>
1941-42	1059	1318	2761	923	1213	846	924	1028	1556	975	598	401	1134
1942-43	319	2371	2213	1271	2061	1569	<u>2512</u>	1293	1350	970	520	450	1400
1943-44	465	620	1405	1338	1082	761	1032	1124	896	632	453	491	858
1944-45	370	737	855	1741	2158	1383	1023	2204	1112	735	460	508	1101
1945-46	571	1945	2301	2283	1808	1697	1735	2144	1837	1203	624	397	1529
1946-47	826	1971	3568	1710	2157	1230	1460	1116	938	679	450	448	1375
1947-48	1887	2345	1768	2249	1995	1353	1518	2477	1888	1040	703	562	1648
1948-49	714	1682	1644	581	1967	1989	2030	<u>2855</u>	1489	1022	589	464	1414
1949-50	767	2021	1862	2192	2643	2825	1941	2031	2393	1431	852	558	1787
1950-51	1270	2824	3202	2289	3592	1229	1778	1640	1102	739	513	448	1706
1951-52	1456	1518	1599	1081	1986	1061	1823	1684	1062	896	583	471	1265
1952-53	391	272	707	4505	2187	1019	1229	1614	1387	1171	693	552	1308
1953-54	730	1461	3520	2172	3354	1420	2005	1942	1860	1390	838	636	1768
1954-55	716	1893	1436	1247	1700	900	1837	2072	2643	<u>1628</u>	923	698	1469
1955-56	<u>2081</u>	<u>3957</u>	3980	2470	776	1926	2493	2768	2021	1347	755	463	2092
1956-57	989	1374	2773	786	1977	2473	1840	1734	1188	760	554	556	1414
1957-58	563	917	2092	2485	2719	1034	1970	1492	1225	871	739	518	1377
1958-59	716	3331	2823	3655	1202	1510	2037	1772	1600	1073	682	<u>1193</u>	1802
1959-60	1916	2970	1867	1017	1966	1548	1969	2204	1440	977	718	653	1600
1960-61	812	3198	1629	2493	3771	2298	1709	1831	1454	855	628	371	1738
1961-62	636	996	2197	1867	1058	1041	1961	1550	1244	835	609	530	1212
1962-63	836	2364	2042	1062	2206	1030	1803	1307	792	735	614	528	1268
1963-64	632	2167	1461	2838	1377	1268	1536	1915	2375	1335	851	564	1526
1964-65	670	1432	3520	3390	2283	1064	1489	1260	1051	841	664	443	1507
1965-66	450	879	1180	1902	920	1976	2114	1776	1173	975	625	489	1208
1966-67	622	1230	3058	3219	1662	1441	907	1878	1742	911	617	469	1482
1967-68	1246	1213	1931	2317	3475	1560	1050	1090	1712	783	826	985	1508
1968-69	1226	2118	2301	2185	1074	1301	1873	2270	1510	815	603	661	1498
1969-70	782	909	1651	3571	2118	1261	1272	1260	1214	835	589	493	1327
1970-71	553	1344	2326	3343	2420	1809	1706	2678	1843	1548	919	586	1755
1971-72	689	1529	1621	2897	3533	<u>4469</u>	1795	2473	1837	1365	871	775	1985
1972-73	471	977	3277	1975	836	1052	873	1192	1011	805	651	565	1146
1973-74	668	2329	3293	<u>4524</u>	1959	2136	2202	2272	<u>2785</u>	1599	935	590	<u>2110</u>
1974-75	368	1161	2338	3323	1816	1542	891	1983	1456	1311	800	653	1472
1975-76	1318	2387	5006	3332	1549	1381	1737	2320	1347	1257	<u>982</u>	760	1954
1976-77	576	672	612	639	593	1260	1594	1311	1424	690	920	964	938
1977-78	821	3132	4856	1910	1453	1173	1220	1324	1041	881	701	816	1613
1978-79	489	822	1326	689	2260	2029	1432	1701	1019	924	715	724	1171
1979-80	804	600	3310	1713	2418	1422	1973	1097	1066	910	636	567	1374
1980-81	396	2126	4205	1027	2830	906	1892	1311	1820	853	632	545	1534
1981-82	1110	1380	2744	2164	<u>4879</u>	1945	1603	1719	1581	985	609	476	1746
1982-83	741	1326	2746	3140	2098	2148	1232	1263	1208	1312	804	649	1556
1983-84	423	3734	2113	2379	1616	1867	1526	1986	1622	1110	686	476	1626
1984-85	578	2443	1142	759	855	927	1926	1671	1749	802	507	411	1145
1985-86	1248	1651	914	2285	2535	1802	965	1493	920	601	589	423	1278
1986-87	527	2608	1294	1427	1950	2450	1386	1223	928	584	508	434	1270
1987-88	299	369	2013	1279	1333	1772	2467	1823	1220	799	568	464	1201
1988-89	620	2556	1397	1788	1101	1977	2139	1285	1034	684	472	<u>341</u>	1282
MEAN	772	1682	2245	2060	1868	1595	1638	1704	1446	959	653	548	1429
MEDIAN	668	1461	2042	2164	1931	1461	1709	1684	1350	878	625	497	1414

LAG3A

USGS # 12099080

WHITE RIVER

River: WHITE

Drainage Area:

407 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

24.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1410	877	606	
1928-29	770	565	582	515	<u>409</u>	1134	1202	2543	2150	1338	870	550	1057
1929-30	394	292	775	541	1774	1260	1529	1514	1485	989	751	535	980
1930-31	492	566	489	1317	935	1229	1820	2021	1589	1041	746	568	1068
1931-32	750	1168	1201	1313	1511	2639	2271	2550	2697	1616	902	643	1605
1932-33	815	3492	1901	1974	721	1288	1530	2475	4019	2646	<u>1349</u>	921	1931
1933-34	1802	2138	<u>6676</u>	<u>4317</u>	2048	2329	2247	1964	1212	957	802	615	<u>2268</u>
1934-35	1840	<u>3723</u>	2518	3012	1905	1871	1454	2176	2419	1858	975	699	2038
1935-36	503	525	641	2516	776	1799	2701	3514	3341	1295	871	580	1591
1936-37	452	315	1182	<u>301</u>	695	1239	1871	2338	3356	1619	860	685	1244
1937-38	613	3457	2738	2334	881	1148	2369	2824	2665	1331	795	623	1817
1938-39	553	926	1481	1810	1203	1675	1952	2413	1763	1346	836	569	1378
1939-40	479	655	1557	1111	1814	1714	1461	2317	1273	869	727	637	1217
1940-41	659	1062	1283	933	660	<u>677</u>	1004	<u>1287</u>	<u>1212</u>	901	673	668	918
1941-42	1109	1208	2469	906	929	776	1181	1809	3510	1807	849	570	1429
1942-43	486	1924	2285	1229	1593	1103	2726	1799	2636	1597	<u>595</u>	454	1531
1943-44	415	394	1170	713	894	831	1022	1709	1284	<u>792</u>	603	596	<u>869</u>
1944-45	416	554	819	2621	1860	1004	1425	2764	1914	1049	669	802	1322
1945-46	685	1545	1817	2192	1574	1901	2583	4250	3040	1911	941	597	1922
1946-47	947	1940	4197	2316	1705	1450	2015	2642	2039	1122	734	668	1817
1947-48	<u>2195</u>	2853	1832	1748	1764	1080	1658	3388	<u>4893</u>	1578	991	713	2054
1948-49	842	1602	1708	725	1663	1613	2172	<u>4483</u>	2733	1362	820	605	1693
1949-50	865	1745	2170	1589	1804	2840	2079	2973	4390	<u>3135</u>	1121	720	2121
1950-51	1349	2383	2973	1980	3168	1313	2182	2498	2027	1141	751	635	1856
1951-52	1027	1069	1086	667	1379	946	1878	2204	1675	1308	794	523	1211
1952-53	415	<u>272</u>	<u>377</u>	2345	2393	833	1279	1484	2223	1678	756	597	1213
1953-54	628	1175	3032	1461	1895	1011	1441	2381	2613	2460	1002	779	1656
1954-55	735	1109	1044	1181	1468	725	1345	1696	4053	2156	1173	690	1444
1955-56	1336	3008	3066	1728	817	1376	<u>2791</u>	4023	4235	2779	998	650	2237
1956-57	930	1326	3871	787	1046	1635	1793	2631	1844	906	733	592	1513
1957-58	515	681	1412	1633	1697	953	1607	2545	1985	1209	811	667	1307
1958-59	840	2923	2803	2628	1117	1194	1791	2030	2444	1602	837	<u>1284</u>	1793
1959-60	2170	3201	2079	839	1390	1145	1569	2181	2130	1222	882	637	1619
1960-61	653	2218	1256	1694	2956	1657	1655	2278	2685	1396	938	586	1652
1961-62	639	888	1639	2026	976	816	1829	1591	1851	1331	906	654	1264
1962-63	686	1836	2213	1161	1837	1130	1541	1615	1527	1084	823	651	1337
1963-64	585	1176	1246	1909	1253	1137	1634	2274	3564	2087	1112	766	1561
1964-65	916	1091	2134	3202	2296	1179	1731	1902	2104	1266	911	592	1607
1965-66	669	745	705	1027	654	1197	1841	2078	1829	1487	848	669	1148
1966-67	733	1188	1936	2431	1649	971	874	2268	2890	1616	921	668	1512
1967-68	1073	1085	1968	2279	2356	1366	1194	1686	2313	1171	958	1168	1548
1968-69	1058	1893	1639	1977	720	1179	1931	3460	2845	1256	738	638	1616
1969-70	652	743	1010	2220	1566	1051	1186	1899	2532	1293	766	604	1291
1970-71	603	1064	1241	2835	2273	1112	1381	3035	2712	2408	1209	710	1713
1971-72	542	1129	1459	1717	2629	<u>3593</u>	1756	3441	3603	2421	1161	877	2026
1972-73	513	797	2101	1643	702	692	<u>789</u>	1353	1505	1069	746	564	1044
1973-74	564	1265	1936	3079	1399	1421	1880	2542	4144	2479	1286	677	1892
1974-75	431	729	1453	2668	1336	1303	931	2546	3046	2127	1081	663	1530
1975-76	890	1755	4448	3130	1249	910	1498	2365	1800	1849	1219	917	1843
1976-77	550	661	687	759	588	854	1773	1299	1730	878	973	791	962
1977-78	580	2244	4309	1134	915	981	1219	1626	1891	1579	837	902	1523
1978-79	567	1132	1444	728	1457	1775	1334	2205	1472	1012	738	614	1205
1979-80	511	417	1957	1052	1550	1398	1777	1863	1600	1287	730	711	1237
1980-81	450	1363	2878	1243	2151	940	1535	1781	2280	1175	824	542	1424
1981-82	751	594	1411	2130	<u>3507</u>	1448	1061	1936	2757	1519	895	667	1543
1982-83	720	938	1467	1971	1153	1319	1170	2095	1775	1316	1023	737	1310
1983-84	469	1973	1057	3166	1443	1633	1341	2076	2499	1731	931	549	1573
1984-85	542	979	865	719	775	834	2072	2096	2419	1181	696	541	1142
1985-86	1003	1380	626	1143	2082	1637	1074	1886	1741	881	775	576	1227
1986-87	464	2185	982	784	1315	1672	1531	2065	1378	892	677	486	1200
1987-88	<u>291</u>	327	960	739	1147	1282	2180	2084	1635	1174	783	629	1101
1988-89	785	1798	1339	1549	818	1289	2513	1757	1793	939	647	<u>453</u>	1307
MEAN	769	1400	1829	1695	1479	1336	1675	2304	2406	1483	875	666	1493
MEDIAN	653	1168	1467	1643	1443	1229	1634	2181	2223	1331	842	638	1513

WHI3A

USGS # 12175010

ROSS

River: SKAGIT

Drainage Area:

999 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

105.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										3478	1513	1057	
1928-29	2087	1159	976	619	497	928	1711	7112	7407	3139	1630	919	2359
1929-30	826	<u>500</u>	<u>591</u>	<u>500</u>	2284	1825	6229	5676	6650	3763	1703	1164	2635
1930-31	1028	1058	734	1495	1951	2182	2896	8252	5765	2654	1367	1533	2579
1931-32	1001	1876	1352	1364	3451	3514	4427	8381	9583	3954	2058	1144	3501
1932-33	1492	4906	3119	1649	956	1290	3534	6582	12830	9339	3696	2052	4297
1933-34	<u>4348</u>	4402	4310	4023	3004	4750	<u>10320</u>	9587	6652	3618	2027	1280	4867
1934-35	1336	4561	2530	4134	<u>4825</u>	1884	<u>2072</u>	6708	8477	5153	2138	1750	3784
1935-36	1011	723	850	860	576	1093	5427	9882	6998	2564	1475	1024	2709
1936-37	758	508	1033	614	<u>461</u>	1264	2326	7054	12010	4833	1756	1202	2824
1937-38	1635	2702	2592	2045	1033	1907	4075	9422	9871	4139	1515	1142	3516
1938-39	992	961	1584	2387	967	1670	4612	8312	6463	4482	1881	1018	2957
1939-40	1149	1598	3923	1829	1645	2451	3743	6583	4433	2089	<u>1252</u>	1057	2651
1940-41	2513	1351	1804	1425	1427	1598	3546	4028	<u>3531</u>	<u>2021</u>	1260	1559	2174
1941-42	3094	2772	3743	1192	944	891	3022	5353	5935	3208	1527	<u>841</u>	2720
1942-43	712	1244	1804	1573	1323	1769	6189	6347	9816	7891	2600	1323	3556
1943-44	1041	868	1278	967	869	1005	2219	5281	5599	2363	1377	1506	<u>2032</u>
1944-45	1237	1228	1520	1940	2149	1331	1727	7858	7521	3622	1552	1266	2749
1945-46	2189	2425	1505	1417	1138	1817	3851	12240	9099	5472	2269	1303	3743
1946-47	1123	938	2029	1347	2302	2825	4741	9877	7068	3682	1643	1091	3227
1947-48	2587	1924	2143	1782	1193	1110	2892	9540	14310	4129	2651	1843	3842
1948-49	2167	1565	1291	883	1013	1857	4960	<u>12370</u>	8419	4478	2183	1723	3590
1949-50	1690	<u>5470</u>	3775	1499	1426	2195	2832	7510	<u>16470</u>	8657	3101	1482	4681
1950-51	2661	4373	5699	2502	4196	1657	4860	9780	9389	5310	2077	1464	4494
1951-52	1480	1475	1184	646	1317	1028	4133	8635	6588	3849	1706	1028	2758
1952-53	706	557	604	3000	2735	1421	2928	8422	8195	6386	2583	1556	3262
1953-54	2406	3104	2866	1913	2648	1886	2944	9961	11320	<u>11320</u>	4712	2649	4827
1954-55	1967	4986	2756	1522	1218	941	2272	5265	12910	7649	2803	1551	3824
1955-56	3697	5352	2017	1260	890	1090	5143	12280	11780	7177	2693	1914	4613
1956-57	3518	2705	3471	1362	1413	1843	3215	12120	7318	3028	1671	1190	3589
1957-58	1010	1082	1254	1721	1974	1672	2450	10530	6368	2755	1576	1432	2825
1958-59	2507	3173	4763	3105	1571	1739	4404	8303	12220	6994	2428	<u>3003</u>	4529
1959-60	4068	4453	2950	1396	1893	2005	4463	6429	9736	5180	2244	1629	3868
1960-61	1134	1926	1561	3324	3391	2263	3107	8648	13380	4343	2091	1272	3862
1961-62	1696	1476	1443	2991	2810	1152	3474	4814	7637	4005	2178	1379	2916
1962-63	1555	3374	4089	2239	4368	2090	2202	6198	6852	3733	2292	1729	3384
1963-64	2443	3551	3143	2990	1558	1486	2575	5976	13820	8711	3105	1980	4280
1964-65	2452	1721	1779	1682	2691	2266	3668	7145	8995	4691	2463	1162	3393
1965-66	1536	2278	1999	1322	890	1571	4245	7547	7465	4993	2151	1366	3124
1966-67	1847	1866	3994	2184	1983	1466	<u>1621</u>	7530	16090	5999	2331	1425	4032
1967-68	3334	3783	2879	4431	3975	3849	2194	7119	10760	6127	2251	1927	4385
1968-69	1460	2422	1827	1493	885	1311	4132	10940	9180	3012	1483	1777	3335
1969-70	1536	1721	1355	1256	1630	1521	2028	6079	9376	2986	1515	1175	2680
1970-71	871	1132	1136	1816	3898	1695	2822	11710	10610	8335	3222	1465	4061
1971-72	1408	1705	1140	1319	1876	<u>5061</u>	3361	12210	16230	10010	3990	2031	<u>5037</u>
1972-73	1428	1003	2060	1599	948	1221	1884	6477	5831	3250	1617	1004	2371
1973-74	1306	2000	2457	4312	1746	2154	3421	6882	16270	9624	4148	1685	4678
1974-75	926	1473	1761	1673	1075	1259	1888	6871	11100	7263	2264	1287	3230
1975-76	2092	4742	6259	3053	2368	1476	2992	9858	9742	9431	<u>4797</u>	2526	4958
1976-77	1174	1170	1242	1308	1532	1358	3289	3995	5342	2145	1908	1033	2123
1977-78	781	2510	3838	1307	1294	2608	3287	5610	8814	4628	2110	2333	3266
1978-79	1276	2568	1102	715	955	2573	2476	7260	5433	2767	1630	1329	2515
1979-80	981	731	4429	1451	1767	2289	4343	8764	6478	3575	1750	1384	3169
1980-81	1014	2916	<u>6713</u>	3324	3087	1781	2372	5940	6009	4432	2166	1296	3425
1981-82	1637	1790	1802	1325	2578	1743	2023	7170	13630	6213	2573	1635	3674
1982-83	1582	1259	2034	2633	2159	2625	2881	7876	7247	4948	2573	1353	3274
1983-84	860	3159	998	<u>4649</u>	1973	1996	1940	<u>3803</u>	9108	4983	2114	1186	3062
1984-85	1268	1667	946	685	705	<u>833</u>	4142	7893	7867	3292	1422	1073	2654
1985-86	2208	2741	788	2406	3033	4265	3422	6903	8098	3182	1772	997	3315
1986-87	1065	2455	1341	1877	1554	2963	4296	9576	5763	2793	1339	942	3005
1987-88	<u>701</u>	605	840	769	1054	1877	5376	7820	7171	3716	1644	1179	2729
1988-89	1961	3062	2019	1742	1252	1275	4520	7464	8317	3088	1695	910	3112
MEAN	1698	2276	2279	1899	1874	1909	3507	7898	9072	4914	2182	1444	3420
MEDIAN	1480	1876	1804	1599	1571	1743	3289	7530	8419	4241	2084	1341	3315

ROS3A

USGS # 12176510

DIABLO

River: SKAGIT

Drainage Area:

1125 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

101

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										4629	2329	1623	
1928-29	2836	1400	1137	699	555	1069	1964	8013	8612	4152	2548	1388	2878
1929-30	1046	<u>562</u>	<u>714</u>	<u>595</u>	2815	2154	6869	6252	7470	4849	2665	1940	3152
1930-31	1385	1203	845	1946	2243	2515	3354	9174	7084	3891	2163	2296	3179
1931-32	1194	2252	1519	1537	4146	3962	5157	9245	11010	5246	3125	1649	4161
1932-33	1950	5781	3448	1869	1008	1449	3926	7178	14090	11040	5083	2955	4996
1933-34	<u>5387</u>	5247	5172	4591	3453	5419	<u>11550</u>	10830	7892	4957	3162	1850	5803
1934-35	1756	5314	2922	4985	<u>5385</u>	2148	2344	7434	9823	6461	3120	2657	4516
1935-36	1344	846	975	1012	637	1292	6230	11270	8546	3786	2530	1680	3350
1936-37	1128	622	1258	680	<u>511</u>	1469	2628	7752	13530	6195	2563	1813	3355
1937-38	2175	3194	3026	2349	1135	2179	4513	10220	11270	5472	2270	1897	4155
1938-39	1365	1147	1851	2769	1108	1923	5097	9169	7363	5717	2839	1542	3507
1939-40	1630	1966	4455	2054	1851	2738	4143	7488	5455	3089	<u>2069</u>	1796	3234
1940-41	3429	1555	2167	1638	1609	1830	3966	4615	<u>4404</u>	3195	2175	2144	2733
1941-42	3678	3137	4233	1344	1066	1011	3372	6063	6908	4511	2520	1378	3282
1942-43	975	1445	2135	1773	1494	2005	6836	7064	11030	9441	3485	1943	4144
1943-44	1379	1011	1535	1106	992	1150	2500	5925	6558	3311	2089	2233	<u>2484</u>
1944-45	1699	1485	1837	2299	2471	1499	1920	8750	8543	4714	2347	1791	3285
1945-46	2627	2768	1706	1603	1292	2034	4264	13500	10300	6786	3142	1753	4334
1946-47	1433	1088	2330	1551	2612	3189	5331	11110	8221	4750	2370	1629	3806
1947-48	3355	2221	2455	1988	1338	1244	3194	10620	16410	5268	3682	2453	4520
1948-49	2602	1752	1467	1006	1142	2110	5505	<u>13740</u>	9681	5705	3124	2468	4209
1949-50	2121	<u>6408</u>	4243	1739	1591	2477	3108	8323	<u>18370</u>	10500	4366	2200	5463
1950-51	3235	4968	6532	2795	4867	1858	5393	10830	10670	6692	3012	2118	5245
1951-52	1970	1726	1365	756	1476	1153	4574	9551	7653	5119	2801	1633	3319
1952-53	1105	680	761	3478	3170	1602	3240	9290	9137	7808	3620	2270	3852
1953-54	2943	3503	3317	2171	2969	2117	3235	10930	12520	<u>12930</u>	5890	3409	5514
1954-55	2339	5780	3108	1715	1369	1051	2485	5839	14410	9122	3846	2201	4444
1955-56	4491	6099	2312	1427	996	1198	5607	13460	13260	8905	3771	2725	5361
1956-57	4133	3052	4003	1532	1590	2049	3564	13470	8705	4036	2418	1883	4224
1957-58	1373	1326	1465	1984	2252	1885	2709	11890	7903	4195	2683	2131	3492
1958-59	3145	3661	5595	3505	1766	1932	4933	9148	13720	8587	3365	<u>3900</u>	5286
1959-60	4912	5280	3369	1584	2110	2229	4906	7143	11160	6681	3180	2183	4560
1960-61	1807	2249	1853	3851	3940	2580	3440	9577	15420	5863	3350	1811	4622
1961-62	2149	1718	1687	3519	3194	1295	3876	5347	8870	5123	3195	1905	3485
1962-63	1887	4010	4640	2596	4911	2344	2434	6925	7921	4669	3154	2547	3993
1963-64	3264	4028	3587	3362	1727	1640	2825	6596	15340	10290	4031	2522	4939
1964-65	2935	1968	2102	1930	3035	2525	4066	7887	10180	5987	3662	1598	3992
1965-66	1966	2608	2253	1496	1014	1773	4656	8316	8466	6120	3094	2056	3664
1966-67	2405	2145	4683	2498	2247	1657	<u>1796</u>	8259	18070	7451	3478	2338	4758
1967-68	4207	4300	3278	5095	4499	4285	2416	7876	12290	7626	3171	2692	5145
1968-69	1782	2808	2117	1829	1007	1466	4562	12210	10990	4057	2196	2571	3976
1969-70	1866	1968	1539	1431	1847	1702	2229	6744	10880	4128	2346	1722	3200
1970-71	1107	1330	1329	2180	4475	1898	3087	12840	11820	10070	4544	1974	4725
1971-72	1759	1950	1307	1493	2201	<u>5850</u>	3734	13470	18020	11830	5339	2640	<u>5810</u>
1972-73	1732	1178	2397	1876	1104	1400	2087	7236	6842	4349	2490	1577	2869
1973-74	1638	2290	2816	4839	1956	2420	3728	7559	18130	11310	5439	2342	5386
1974-75	1164	1720	2042	1952	1239	1430	1862	7600	12450	9220	3141	1843	3819
1975-76	2570	5348	7186	3484	2627	1652	3234	10810	10750	11040	<u>6120</u>	3256	5689
1976-77	1469	1396	1456	1617	1755	1530	3648	4432	6464	<u>3057</u>	3218	1539	2632
1977-78	986	2932	4476	1494	1475	2938	3625	6190	10140	6068	3177	3155	3896
1978-79	1634	3046	1261	809	1057	2950	2736	8091	6359	3896	2610	2055	3053
1979-80	1344	864	5431	1639	2029	2569	4814	9706	7463	4642	2531	2003	3762
1980-81	1339	3439	<u>7931</u>	3722	3474	1977	2707	6592	6855	5554	3322	1964	4082
1981-82	2054	2069	2045	1525	2985	1989	2238	7841	15540	7745	3697	2338	4337
1982-83	1971	1498	2395	3032	2465	2984	3186	8872	8510	6323	3649	1883	3910
1983-84	1121	3622	1156	<u>5651</u>	2233	2267	2165	<u>4291</u>	10440	6346	3241	1701	3686
1984-85	1690	1899	1124	833	832	<u>958</u>	4609	8839	9273	4676	2188	1448	3205
1985-86	2680	3210	939	2737	3520	4741	3765	7804	9483	4141	2852	1446	3941
1986-87	1375	2846	1566	2117	1776	3363	4789	10830	6969	3854	2153	1663	3618
1987-88	<u>742</u>	737	997	895	1209	2158	6032	8723	8294	4837	2469	1776	3240
1988-89	2728	3549	2364	1988	1455	1452	5127	8253	9712	4142	2532	<u>1335</u>	3725
MEAN	2153	2643	2643	2190	2136	2159	3900	8770	10390	6228	3173	2084	4049
MEDIAN	1866	2221	2135	1876	1776	1977	3648	8316	9712	5513	3124	1954	3941

DIA3A

USGS # 12177710

GORGE

River: SKAGIT

Drainage Area: 1159 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 96.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										5270	2564	1769	
1928-29	3118	1531	1246	748	584	1168	2101	8402	9005	4364	2666	1444	3046
1929-30	1129	<u>596</u>	<u>797</u>	<u>653</u>	3085	2383	7217	6501	7738	5076	2789	2032	3323
1930-31	1519	1282	919	2219	2391	2748	3603	9572	7515	4149	2266	2387	3385
1931-32	1267	2457	1631	1641	4500	4275	5553	9617	11470	5516	3263	1709	4398
1932-33	2122	6257	3669	2002	1035	1560	4139	7436	14500	11400	5262	3063	5218
1933-34	<u>5823</u>	5551	5608	4908	3700	5807	<u>12030</u>	11300	8219	5197	3304	1944	<u>6127</u>
1934-35	1927	5747	3167	5464	<u>5623</u>	2293	2530	7788	10280	6776	3273	2768	4790
1935-36	1464	925	1123	1166	666	1478	6662	11780	8995	4013	2633	1754	3559
1936-37	1179	649	1457	709	<u>544</u>	1657	2853	8102	14050	6454	2668	1871	3526
1937-38	2393	3544	3294	2503	1184	2365	4794	10610	11740	5732	2364	1965	4388
1938-39	1490	1287	2074	3044	1174	2105	5409	9584	7740	6042	2976	1619	3730
1939-40	1844	2203	4843	2183	1990	2966	4370	7905	5741	<u>3239</u>	<u>2150</u>	1856	3448
1940-41	3738	1668	2389	1797	1732	2002	4177	4873	<u>4633</u>	3307	2237	2361	2916
1941-42	3994	3366	4507	1408	1135	1092	3580	6359	7244	4734	2585	<u>1408</u>	3465
1942-43	1016	1561	2370	1934	1610	2165	7190	7389	11510	9954	3666	2015	4375
1943-44	1491	1101	1713	1237	1050	1267	2666	6213	6830	3434	2163	2401	<u>2632</u>
1944-45	1833	1653	2016	2530	2696	1802	2074	9235	8904	4971	2440	1918	3494
1945-46	2877	2927	1844	1759	1417	2188	4529	14100	10780	7167	3340	1854	4586
1946-47	1563	1186	2543	1710	2848	3381	5623	11590	8624	5038	2496	1733	4035
1947-48	3686	2359	2688	2090	1364	1329	3402	11120	17090	5549	3895	2627	4767
1948-49	2777	1874	1542	1067	1223	2273	5831	<u>14380</u>	10160	6099	3314	2639	4450
1949-50	2322	<u>6888</u>	4406	1871	1737	2678	3284	8747	<u>19050</u>	11000	4639	2324	5755
1950-51	3520	5353	7037	2956	5298	1944	5675	11290	11140	7010	3157	2250	5549
1951-52	2225	1864	1467	811	1577	1234	4858	9985	8090	5456	2946	1707	3522
1952-53	1159	733	863	4012	3407	1705	3466	9707	9517	8218	3825	2490	4098
1953-54	3209	3760	3579	2295	3191	2237	3430	11420	13060	<u>13560</u>	6249	3652	5823
1954-55	2561	6256	3278	1795	1458	1098	2638	6192	15010	9637	4082	2324	4700
1955-56	4900	6422	2497	1508	1002	1269	5911	14060	13820	9419	3991	2954	5653
1956-57	4486	3235	4337	1603	1722	2193	3831	14030	9131	4302	2572	1997	4475
1957-58	1498	1434	1634	2209	2484	2000	2887	12420	8344	4405	2789	2287	3709
1958-59	3400	3954	6063	3753	1847	2073	5336	9550	14310	9082	3577	<u>4277</u>	5618
1959-60	5281	5632	3568	1698	2201	2389	5175	7517	11720	7055	3344	2300	4822
1960-61	1852	2477	2065	4226	4305	2755	3665	10040	16110	6224	3511	1919	4922
1961-62	2395	1882	1905	3815	3442	1357	4153	5666	9379	5479	3430	2071	3744
1962-63	2077	4338	4982	2771	5300	2474	2582	7255	8285	4932	3307	2673	4237
1963-64	3490	4308	3868	3570	1790	1742	3010	6974	15890	10830	4356	2738	5219
1964-65	3168	2140	2287	2075	3265	2672	4331	8249	10610	6314	3862	1687	4224
1965-66	2181	2850	2461	1638	1091	1951	4906	8712	8901	6499	3277	2166	3900
1966-67	2666	2302	5159	2699	2402	1780	<u>1902</u>	8682	18800	7870	3684	2463	5041
1967-68	4684	4503	3529	5471	4686	4540	2589	8249	12830	8020	3349	2902	5446
1968-69	1964	3087	2269	1978	1050	1572	4817	12770	11500	4297	2316	2794	4212
1969-70	2015	2117	1677	1568	2009	1827	2383	7060	11340	4383	2459	1863	3392
1970-71	1201	1513	1459	2478	4787	2010	3295	13450	12340	10670	4842	2117	5018
1971-72	1917	2146	1393	1624	2330	<u>6315</u>	3943	14050	18640	12410	5647	2856	6118
1972-73	1839	1286	2690	2016	1188	1503	2226	7615	7243	4636	2648	1690	3063
1973-74	1847	2491	3081	5257	2077	2652	3928	7967	18870	11880	5787	2510	5712
1974-75	1235	1950	2295	2101	1311	1548	1977	8046	12970	9761	3358	1960	4058
1975-76	2850	5731	7712	3732	2881	1745	3419	11280	11190	11570	<u>6486</u>	3472	6007
1976-77	1578	1536	1651	1800	1921	1638	3878	4644	6820	3248	3411	1650	2815
1977-78	1083	3266	4918	1583	1611	3222	3801	6483	10640	6425	3370	3431	4161
1978-79	1763	3278	1323	842	1149	3270	2897	8512	6741	4157	2725	2165	3246
1979-80	1482	921	6140	1714	2209	2713	5187	10190	7850	4927	2658	2167	4023
1980-81	1402	3849	<u>8712</u>	3858	3774	2057	2968	6917	7280	5841	3454	2065	4356
1981-82	2279	2224	2206	1628	3298	2094	2379	8255	16210	8215	3912	2472	4595
1982-83	2162	1583	2750	3314	2720	3225	3386	9316	8938	6854	3835	2001	4188
1983-84	1224	4047	1283	<u>6203</u>	2350	2469	2312	<u>4628</u>	10960	6766	3447	1860	3962
1984-85	1875	2097	1267	940	894	<u>1040</u>	4975	9313	9831	4990	2305	1574	3433
1985-86	3032	3508	1057	3041	3933	5043	3986	8267	9931	4418	3007	1556	4228
1986-87	1503	3157	1763	2289	1962	3631	5104	11350	7351	4081	2269	1742	3860
1987-88	<u>785</u>	818	1178	993	1299	2383	6465	9178	8725	5195	2628	1916	3464
1988-89	2989	3841	2596	2146	1569	1607	5574	8694	10260	4436	2706	1415	3992
MEAN	2350	2861	2883	2371	2293	2324	4145	9190	10860	6580	3347	2219	4295
MEDIAN	2015	2359	2370	2016	1962	2094	3878	8712	10260	5787	3291	2068	4212

GOR3A

USGS # 12191610

UPPER BAKER

River: BAKER

Drainage Area:

215 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

9.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										2320	1190	1030	
1928-29	2210	1310	1010	550	<u>350</u>	960	1180	3140	3710	2270	1370	780	1578
1929-30	780	<u>360</u>	1180	580	2480	1150	2380	2070	2480	1950	1240	1100	1468
1930-31	1340	1010	910	2380	1210	1770	2090	3090	3650	2110	1070	1840	1875
1931-32	1290	1910	1480	1190	2290	2090	2340	3000	4660	3420	1850	960	2203
1932-33	1650	3660	1840	1420	600	1120	1570	2580	4480	4770	2780	2280	2404
1933-34	3050	2050	3750	3120	1770	2220	<u>2810</u>	3070	2320	2380	1620	1240	2459
1934-35	1750	3240	2030	3070	2080	1120	1120	2530	3600	2950	1430	1690	2216
1935-36	1130	840	1250	1480	560	1190	2690	4170	4470	2260	1230	960	1854
1936-37	750	450	1750	<u>460</u>	490	1210	1800	3010	5390	2810	1460	960	1717
1937-38	1960	2940	2420	1580	760	1190	2070	3020	3530	2430	1070	940	1998
1938-39	1230	1280	2240	2330	790	1050	2030	3490	3450	3510	1560	1030	2010
1939-40	1750	1940	3460	1600	1630	2040	1840	2940	2200	1490	1150	960	1920
1940-41	2540	1260	1860	1460	1160	1170	1360	2270	<u>2100</u>	1660	1130	2090	1676
1941-42	2870	2020	2440	790	780	720	1380	2120	3170	2290	1240	<u>730</u>	1719
1942-43	690	1940	1980	1240	1180	1170	2800	2350	3530	3650	1530	930	1918
1943-44	1000	760	1340	1330	800	890	1210	2260	2490	<u>1470</u>	<u>1030</u>	1580	<u>1348</u>
1944-45	1230	1780	1300	1970	1720	1090	1250	3650	3090	2550	1300	1260	1850
1945-46	2180	1870	1470	1390	1220	1270	1960	4000	4000	3560	1790	960	2146
1946-47	1350	1100	2310	1360	1950	1400	1980	3160	3230	2420	1210	1080	1879
1947-48	2940	1650	2230	1220	900	730	1410	3490	5350	2770	2240	1830	2234
1948-49	1480	1500	890	540	760	1470	2270	<u>4360</u>	3700	3260	1800	1530	1970
1949-50	1480	3120	2130	910	1480	1910	1760	2960	5270	4600	2780	1470	2493
1950-51	2570	2470	3770	1740	3280	880	1860	2910	3110	2240	1240	1090	2256
1951-52	2100	1090	1140	660	1350	730	2020	3180	3390	3030	1620	920	1771
1952-53	700	700	1300	<u>3630</u>	1890	860	1500	2800	3000	3750	1960	1460	1966
1953-54	2320	2490	2550	1480	2060	1100	1500	3050	3950	4680	2940	1900	2506
1954-55	1830	3830	1610	963	893	<u>523</u>	1290	2264	4228	3905	2381	1395	2096
1955-56	2861	2951	1580	1104	553	731	2080	3435	4425	3903	1906	1662	2270
1956-57	2827	1545	2235	697	1217	1301	1953	3475	2892	2254	1456	1166	1924
1957-58	1069	1036	1484	2126	2093	995	1213	3032	2804	1700	1096	1204	1652
1958-59	1995	2268	3272	2375	911	1118	2444	2892	3951	3276	1621	<u>2635</u>	2404
1959-60	2242	2392	1394	1179	1664	1091	1913	2656	3192	2606	1488	1149	1913
1960-61	2285	1981	1709	2821	<u>3747</u>	1450	1634	2915	4349	2609	1604	1000	2331
1961-62	1891	1478	1689	2235	1705	714	1679	1830	3222	2772	2227	1577	1919
1962-63	1573	2849	2717	1425	2815	1101	1280	2116	2600	2279	1530	1370	1964
1963-64	2612	3086	2312	1949	1004	987	1333	2460	4549	4576	2673	1885	2457
1964-65	1785	1776	1500	1359	1766	1136	1828	2588	3154	2729	1900	802	1861
1965-66	1992	2450	1765	1318	759	1450	1856	2879	3465	3290	1804	1156	2023
1966-67	1979	1702	3933	1897	1487	1079	1010	2717	5136	3340	2025	1445	2319
1967-68	<u>4131</u>	2205	2105	3020	2860	1976	1298	2477	4140	3197	1805	2181	2617
1968-69	1866	2476	1589	1491	544	976	1962	4129	4627	2455	1385	2539	2175
1969-70	1464	1534	1396	1546	1498	1018	1389	1962	3343	2263	1210	1399	1667
1970-71	1130	1652	1181	1964	2289	1133	1389	3969	3808	4807	2656	1319	2277
1971-72	1269	1781	796	1093	1658	<u>3367</u>	1964	4151	4528	4698	2367	1708	2452
1972-73	827	1278	2707	1492	926	873	977	2820	2866	2297	1319	1066	1627
1973-74	1916	1948	2357	3157	1289	2131	1819	2952	<u>5532</u>	<u>4907</u>	3047	1619	<u>2735</u>
1974-75	732	2291	2031	1519	892	1172	<u>867</u>	2792	3936	3990	2063	1189	1964
1975-76	2971	3374	4268	1976	1264	884	1454	3189	3184	4036	<u>3105</u>	1890	2642
1976-77	1055	1227	1539	1356	1180	1009	1877	<u>1812</u>	2909	1720	2022	1215	1578
1977-78	1158	2617	2838	1542	1148	1649	1236	1890	2962	2468	1837	2594	1998
1978-79	1021	1688	722	510	977	2123	1421	2690	2675	2315	1322	1577	1589
1979-80	1493	684	3905	1118	2589	1327	2555	2580	2480	2401	1347	1556	2002
1980-81	886	3721	<u>4353</u>	1611	2276	966	2155	2315	3415	2366	1520	1279	2234
1981-82	2637	2161	1744	1112	2616	1191	1280	2628	4847	3679	2186	1447	2290
1982-83	1778	1343	2041	2036	2120	1841	1367	2637	3334	4604	1890	1291	2195
1983-84	1044	<u>3872</u>	879	3361	1765	1718	1231	2640	3619	3214	2024	1430	2232
1984-85	1883	2190	1006	865	598	614	2286	2869	3882	2771	1318	973	1775
1985-86	2956	2182	<u>687</u>	2471	2612	2175	1450	2871	3145	2273	1553	946	2108
1986-87	1327	2360	1419	1686	1369	2024	1952	3631	2902	1868	1039	946	1879
1987-88	<u>510</u>	956	1394	986	1025	1462	2597	3251	3339	2984	1375	1226	1760
1988-89	2178	2597	1581	1420	830	1236	2330	2469	3344	2106	1572	766	1873
MEAN	1762	1971	1963	1610	1483	1296	1747	2896	3608	2956	1718	1374	2037
MEDIAN	1750	1940	1744	1460	1289	1150	1800	2879	3450	2750	1566	1270	1998

UBK3A

USGS # 12193010

LOWER BAKER

River: BAKER

Drainage Area:

297 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

1.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										2540	1290	1220	
1928-29	2910	1800	1390	780	<u>500</u>	1410	1590	3920	4330	2460	1500	930	1970
1929-30	1030	<u>500</u>	1590	810	3570	1700	3200	2600	2900	2130	1360	1320	1878
1930-31	1760	1390	1250	3350	1740	2600	2790	3870	4260	2310	1170	2200	2393
1931-32	1700	2620	2040	1670	3300	3070	3150	3760	5450	3740	2020	1150	2800
1932-33	2170	5030	2530	2000	860	1650	2110	3230	5240	5210	3040	2730	2992
1933-34	4010	2820	5150	4390	2550	3270	<u>3780</u>	3850	2710	2600	1770	1480	3209
1934-35	2300	4460	2790	4320	2990	1650	1510	3170	4200	3220	1560	2020	2846
1935-36	1480	1160	1720	2050	800	1750	3620	5230	5220	2470	1340	1150	2336
1936-37	990	620	2390	<u>650</u>	710	1780	2420	3770	6300	3070	1600	1150	2127
1937-38	2570	4040	3330	2220	1090	1750	2780	3780	4120	2650	1170	1120	2559
1938-39	1620	1760	3080	3280	1140	1550	2730	4380	4040	3820	1700	1230	2540
1939-40	2300	2660	4750	2250	2350	3000	2480	3680	2570	1630	1260	1150	2511
1940-41	3340	1730	2550	2050	1670	1720	1830	2850	<u>2450</u>	1810	1230	2500	2148
1941-42	3770	2770	3350	1110	1120	1060	1850	2660	3700	2500	1360	<u>870</u>	2184
1942-43	910	2670	2720	1750	1700	1720	3760	2950	4120	3990	1670	1115	2423
1943-44	1310	1049	1835	1870	1145	1311	1623	2838	2906	<u>1606</u>	<u>1126</u>	1891	<u>1711</u>
1944-45	1621	2449	1786	2763	2328	1607	1679	4567	3613	2783	1418	1503	2344
1945-46	2553	2576	2017	1961	1756	1869	2632	5017	4679	3887	1955	1153	2678
1946-47	1771	1518	3173	1916	2804	2062	2659	3967	3778	2651	1324	1298	2408
1947-48	3869	2267	3067	1717	1290	1072	1899	4385	6253	3028	2457	2186	2795
1948-49	1945	2059	1230	753	1090	2166	3049	<u>5469</u>	4327	3560	1971	1833	2462
1949-50	1947	4279	2927	1285	2128	2814	2373	3719	6159	5034	3043	1766	3125
1950-51	3381	3400	5183	2440	<u>4712</u>	1302	2504	3645	3633	2446	1355	1301	2930
1951-52	2766	1499	1573	929	1937	1075	2707	3988	3964	3313	1774	1106	2220
1952-53	922	966	1786	<u>5103</u>	2721	1261	2018	3513	3516	4076	2147	1753	2484
1953-54	3045	3428	3500	2082	2962	1621	2020	3824	4618	5120	3219	2272	3145
1954-55	2407	<u>5270</u>	2220	1316	1349	<u>831</u>	1933	3017	5546	4770	2610	1451	2729
1955-56	3617	4117	2389	1823	824	1233	2948	4767	5724	4794	2165	2139	3050
1956-57	3814	2163	3292	995	1756	1948	2482	4765	3711	2518	1597	1340	2539
1957-58	1370	1371	2132	3018	2888	1389	1931	4435	3922	2157	1381	1580	2294
1958-59	2914	3522	4591	3394	1365	1797	3496	3718	4911	4155	1890	<u>3037</u>	3242
1959-60	2955	3845	2511	1973	2457	1756	2798	3545	4317	3502	1893	1514	2753
1960-61	2905	3035	2563	4139	4282	2088	2092	3505	4860	2836	1766	1264	2935
1961-62	2358	1993	2483	3036	2103	956	2339	<u>2381</u>	3736	2890	2407	1832	2377
1962-63	2031	3682	3467	1883	3576	1399	1785	2698	2928	2514	1698	1574	2426
1963-64	3163	4114	2918	2646	1485	1466	1879	3175	5418	<u>6442</u>	2931	2225	3161
1964-65	2192	2333	2036	2061	2769	1576	2417	3212	3734	2950	2065	993	2358
1965-66	2100	2998	2313	1888	1155	2018	2556	3620	4033	3633	1908	1244	2463
1966-67	2320	2216	4977	2711	2105	1577	<u>1224</u>	3365	7273	5726	2067	1613	3106
1967-68	<u>5190</u>	2793	3062	4023	3822	2655	1650	3092	4920	3474	2028	2562	3273
1968-69	2445	3241	2283	2075	805	1469	2747	4975	5069	2678	1529	2896	2691
1969-70	1807	1940	1942	2157	2061	1395	2077	2518	3947	2537	1404	1725	2123
1970-71	1548	2403	1797	2873	3267	2502	2694	4755	4583	5325	2825	1658	3019
1971-72	1722	2709	1376	1655	2426	<u>4569</u>	2639	5047	5401	6116	2828	2149	3224
1972-73	1058	1815	3756	2103	1258	1270	1353	3419	3408	2543	1464	1250	2066
1973-74	2442	2643	3329	4310	1922	2970	2422	3761	<u>7964</u>	5593	3346	1786	<u>3552</u>
1974-75	927	2985	2820	2162	1288	1646	1226	3480	4738	4691	2298	1393	2480
1975-76	3805	4535	<u>5834</u>	2827	1710	1280	1969	4003	3994	4693	<u>3483</u>	2248	3376
1976-77	1331	1651	2225	1906	1642	1544	2398	2393	3453	1900	2193	1457	2008
1977-78	1417	3525	3934	2079	1551	2186	1595	2476	3435	2671	2003	2993	2492
1978-79	1261	2093	1122	695	1409	2839	1861	3499	3262	2535	1490	1771	1988
1979-80	1832	927	5550	1435	3396	1808	3145	3953	5283	4475	1515	1842	2929
1980-81	1060	5044	5603	1985	3127	1265	2910	2966	4045	2545	1723	1537	2809
1981-82	3197	2701	2560	1833	3622	1592	1736	3318	5713	4158	2394	1694	2870
1982-83	2155	1903	2651	2905	2759	2409	1771	3211	3804	4977	2031	1543	2681
1983-84	1265	4967	1209	4520	2303	2211	1648	3437	4269	3529	2133	1685	2763
1984-85	2193	2944	1570	1167	911	971	3055	3637	4607	3038	1499	1229	2238
1985-86	3777	2851	<u>928</u>	3249	3427	2728	2008	3591	3451	2429	1712	1160	2605
1986-87	1583	3567	1976	2234	1867	2703	2669	4385	3271	2050	1250	1168	2395
1987-88	<u>690</u>	1333	2013	1495	1595	2146	3554	4155	3967	3408	1609	1566	2295
1988-89	2704	3471	2226	2141	1191	1912	3196	3198	4182	2552	1840	1006	2473
MEAN	2255	2692	2727	2266	2073	1868	2376	3674	4360	3394	1900	1637	2607
MEDIAN	2170	2660	2511	2061	1867	1720	2417	3637	4120	3033	1768	1540	2539

SHA3A

WESTERN OREGON

**ROGUE RIVER
LOST CREEK**

**KLAMATH RIVER
KLAMATH LAKE
A CANAL
JOHN C. BOYLE
COPCO NO. 1 & 2
IRON GATE**

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USGS # 14335050

LOST CREEK

River: ROGUE

Drainage Area:

674 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

157.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1156	1020	971	
1928-29	1031	1076	1081	1091	1011	1725	1792	2475	1721	1023	840	768	1305
1929-30	768	731	1948	1143	2759	1498	1394	1285	1019	805	721	719	1223
1930-31	749	757	821	844	888	1493	1879	1207	<u>845</u>	<u>696</u>	<u>593</u>	<u>614</u>	948
1931-32	<u>687</u>	<u>731</u>	<u>809</u>	997	925	3172	2616	3716	2813	1394	982	846	1643
1932-33	901	1280	1104	1121	1016	1598	2798	3144	<u>4837</u>	1862	1187	1063	1825
1933-34	1000	966	1191	2202	1483	1803	1590	1137	961	814	754	737	1219
1934-35	887	1572	2260	1559	1848	1435	2574	3114	2201	1247	987	896	1713
1935-36	911	939	1030	2286	1793	2001	2962	3004	1940	1209	999	945	1667
1936-37	874	856	912	<u>837</u>	900	1356	2983	3727	2902	1384	1015	930	1558
1937-38	1001	1922	2203	2516	2180	2874	3571	4233	2707	1427	1149	1073	2237
1938-39	1043	1358	1852	1297	1366	2427	3020	2328	1517	1118	957	891	1599
1939-40	916	849	1219	1471	2426	2785	2332	1663	1114	916	818	853	1443
1940-41	864	1177	1464	1643	1674	1481	1466	1894	1329	1002	846	854	1306
1941-42	787	1040	2248	1968	1982	1450	1752	2296	1963	1162	929	850	1533
1942-43	832	2631	4329	3694	2776	2675	3378	2802	2911	1655	1316	1194	2514
1943-44	1278	1505	1280	1324	1591	1687	1994	2255	1655	1124	967	907	1463
1944-45	877	1002	1008	1607	3007	1700	2277	3606	1933	1207	998	921	1669
1945-46	911	1331	2655	2710	1786	2346	2668	3440	2476	1485	1153	1051	2004
1946-47	1065	1606	2147	1485	1974	2110	2356	1918	1651	1165	1000	933	1614
1947-48	1114	1408	1329	2933	1918	1787	2367	2907	3142	1588	1165	1065	1892
1948-49	1060	1231	1702	1115	1594	2083	3229	4171	2356	1343	1095	1006	1833
1949-50	1046	1105	1105	1794	1990	2882	2946	3472	3006	1643	1272	1167	1951
1950-51	<u>1916</u>	2774	4159	3001	3868	2371	3331	3028	2022	1464	1289	1214	2528
1951-52	1585	1935	2677	1854	2861	2275	<u>3888</u>	<u>4333</u>	3492	2181	1539	1396	2498
1952-53	1262	1178	1321	3801	4016	2250	2531	3301	3785	2301	1529	1338	2373
1953-54	1320	2622	3185	2523	3323	2559	2984	2985	2333	1548	1300	1231	2318
1954-55	1180	1178	1225	1279	1297	1498	1899	2899	2741	1339	1035	985	1545
1955-56	1057	1641	4760	4380	2392	2259	3259	4178	3164	1894	1461	1323	2652
1956-57	1538	1752	3299	1760	2861	4107	3173	2979	1985	1360	1187	1122	2258
1957-58	1240	1634	2439	2962	<u>4979</u>	2579	2752	3686	2866	1684	1360	1256	2436
1958-59	1190	1761	1678	2391	1958	1958	2407	2081	1533	1120	995	986	1669
1959-60	1044	996	978	1069	1782	2464	2697	2750	2265	1237	1052	995	1608
1960-61	1004	1445	1623	1301	2931	2558	2628	2783	2469	1271	1102	1071	1839
1961-62	1153	1801	2055	1715	1805	1702	2797	2425	2005	1251	1062	950	1724
1962-63	1498	1726	2560	1356	3255	1782	2620	3037	1686	1243	1053	998	1892
1963-64	1014	2013	1627	1935	1847	1828	2436	2789	3060	1567	1161	1022	1855
1964-65	849	1236	<u>7619</u>	<u>4604</u>	3178	2161	2507	2317	1814	1384	1192	1085	2499
1965-66	1104	1226	1136	1812	1317	2392	3737	2640	1544	1186	977	929	1668
1966-67	938	1687	2149	1973	1988	1884	1508	3244	2259	1243	979	895	1728
1967-68	1028	956	998	1268	2532	1759	1484	1504	1113	863	840	795	1257
1968-69	835	1656	1593	1995	1563	1661	2667	3645	2390	1452	1071	1016	1796
1969-70	1097	1047	1594	4142	2351	2213	1650	2284	1678	1106	950	906	1751
1970-71	949	2308	2083	4173	2566	2757	2921	4132	3421	2093	1460	1359	2518
1971-72	1325	1794	2315	3901	3838	<u>6980</u>	3262	3497	3010	1805	1470	1401	<u>2884</u>
1972-73	1249	1305	1828	1982	1555	1689	1964	2002	1253	1055	936	948	1481
1973-74	1058	<u>3343</u>	3565	4396	2459	3424	3474	3512	3832	1923	1371	1240	2801
1974-75	1209	1193	1662	1992	2368	2813	2287	3894	3834	2047	1443	1276	2167
1975-76	1332	1705	2980	2862	2128	1991	2310	3244	2302	1558	1496	1220	2096
1976-77	1145	1079	983	954	786	755	<u>681</u>	<u>724</u>	936	1030	1001	1071	<u>930</u>
1977-78	1101	1098	2067	1858	1193	1284	1492	1759	1979	2367	1809	1353	1618
1978-79	1075	1042	1068	1021	791	1320	1807	2687	1802	2399	1841	1329	1521
1979-80	994	1339	1768	2569	722	1257	1797	1890	1698	1979	1927	1242	1604
1980-81	1158	1147	1729	993	<u>645</u>	<u>634</u>	1094	1627	1730	1999	1977	1675	1373
1981-82	1021	1766	3983	1975	2753	2206	2687	2705	2550	2175	2088	1692	2298
1982-83	1720	1933	2919	1790	2362	2468	3090	3374	2763	2173	2436	<u>2108</u>	2428
1983-84	1771	2395	3859	2348	1696	2669	2620	3633	3518	<u>2976</u>	<u>2829</u>	1960	2691
1984-85	1236	3050	1963	1163	800	827	2971	2285	2163	2089	2180	1655	1868
1985-86	1285	1513	1626	1863	2811	2957	1681	2289	2029	2190	2078	1498	1981
1986-87	1205	1805	1374	1105	1109	1276	1659	1805	1728	1993	2161	1705	1579
1987-88	1028	835	818	1020	681	678	1351	1798	2083	1821	2004	1573	1309
1988-89	1057	1235	1209	1155	835	2332	3225	3051	2542	2248	2298	1788	1920
MEAN	1104	1495	2036	2031	2018	2114	2447	2764	2268	1532	1302	1143	1854
MEDIAN	1057	1339	1702	1812	1918	2001	2574	2802	2163	1410	1151	1064	1751

LOS3H

USGS # 14335050

LOST CREEK

River: ROGUE

Drainage Area: 674 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 157.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										0	0	0	
1928-29	0	0	0	0	0	0	0	0	0	0	0	0	0
1929-30	0	0	0	0	0	0	0	0	0	0	0	0	0
1930-31	0	0	0	0	0	0	0	0	0	0	0	0	0
1931-32	0	0	0	0	0	0	0	0	0	0	0	0	0
1932-33	0	0	0	0	0	0	0	0	0	0	0	0	0
1933-34	0	0	0	0	0	0	0	0	0	0	0	0	0
1934-35	0	0	0	0	0	0	0	0	0	0	0	0	0
1935-36	0	0	0	0	0	0	0	0	0	0	0	0	0
1936-37	0	0	0	0	0	0	0	0	0	0	0	0	0
1937-38	0	0	0	0	0	0	0	0	0	0	0	0	0
1938-39	0	0	0	0	0	0	0	0	0	0	0	0	0
1939-40	0	0	0	0	0	0	0	0	0	0	0	0	0
1940-41	0	0	0	0	0	0	0	0	0	0	0	0	0
1941-42	0	0	0	0	0	0	0	0	0	0	0	0	0
1942-43	0	0	0	0	0	0	0	0	0	0	0	0	0
1943-44	0	0	0	0	0	0	0	0	0	0	0	0	0
1944-45	0	0	0	0	0	0	0	0	0	0	0	0	0
1945-46	0	0	0	0	0	0	0	0	0	0	0	0	0
1946-47	0	0	0	0	0	0	0	0	0	0	0	0	0
1947-48	0	0	0	0	0	0	0	0	0	0	0	0	0
1948-49	0	0	0	0	0	0	0	0	0	0	0	0	0
1949-50	0	0	0	0	0	0	0	0	0	0	0	0	0
1950-51	0	0	0	0	0	0	0	0	0	0	0	0	0
1951-52	0	0	0	0	0	0	0	0	0	0	0	0	0
1952-53	0	0	0	0	0	0	0	0	0	0	0	0	0
1953-54	0	0	0	0	0	0	0	0	0	0	0	0	0
1954-55	0	0	0	0	0	0	0	0	0	0	0	0	0
1955-56	0	0	0	0	0	0	0	0	0	0	0	0	0
1956-57	0	0	0	0	0	0	0	0	0	0	0	0	0
1957-58	0	0	0	0	0	0	0	0	0	0	0	0	0
1958-59	0	0	0	0	0	0	0	0	0	0	0	0	0
1959-60	0	0	0	0	0	0	0	0	0	0	0	0	0
1960-61	0	0	0	0	0	0	0	0	0	0	0	0	0
1961-62	0	0	0	0	0	0	0	0	0	0	0	0	0
1962-63	0	0	0	0	0	0	0	0	0	0	0	0	0
1963-64	0	0	0	0	0	0	0	0	0	0	0	0	0
1964-65	0	0	0	0	0	0	0	0	0	0	0	0	0
1965-66	0	0	0	0	0	0	0	0	0	0	0	0	0
1966-67	0	0	0	0	0	0	0	0	0	0	0	0	0
1967-68	0	0	0	0	0	0	0	0	0	0	0	0	0
1968-69	0	0	0	0	0	0	0	0	0	0	0	0	0
1969-70	0	0	0	0	0	0	0	0	0	0	0	0	0
1970-71	0	0	0	0	0	0	0	0	0	0	0	0	0
1971-72	0	0	0	0	0	0	0	0	0	0	0	0	0
1972-73	0	0	0	0	0	0	0	0	0	0	0	0	0
1973-74	0	0	0	0	0	0	0	0	0	0	0	0	0
1974-75	0	0	0	0	0	0	0	0	0	0	0	0	0
1975-76	0	0	0	0	0	0	0	0	0	0	0	0	0
1976-77	0	0	0	0	168	351	702	947	347	-171	-230	-216	158
1977-78	-212	1104	1965	525	1244	702	418	119	-464	-1194	-820	-317	248
1978-79	-219	-121	170	628	933	918	383	182	-373	-1341	-895	-440	-21
1979-80	60	125	-66	530	1147	755	507	13	-306	-932	-1031	-364	31
1980-81	-234	-24	145	229	1314	870	504	-2	-236	-966	-1129	-882	-44
1981-82	-133	3	644	249	1575	390	56	525	7	-555	-875	-496	106
1982-83	-456	-568	-5	560	1248	927	-55	231	80	-211	-925	-819	-6
1983-84	-535	-364	202	392	1267	609	480	2	6	-944	-1369	-582	-76
1984-85	245	-265	-47	450	992	968	222	307	-2	-795	-1051	-528	36
1985-86	-14	-259	-67	330	1622	450	522	27	-229	-974	-1043	-292	-6
1986-87	-27	-344	28	576	1186	693	535	29	-544	-897	-1222	-851	-78
1987-88	-228	62	641	713	895	1041	390	26	-336	-777	-1086	-711	50
1988-89	-256	197	28	459	692	1157	631	51	-170	-834	-1153	-787	-4
MEAN	-168	-38	303	470	1099	756	407	189	-171	-815	-987	-560	30

LOS3S

USGS # 14335050

LOST CREEK

River: ROGUE

Drainage Area:

674 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile:

157.2

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1156	1020	971	
1928-29	1031	1076	1081	1091	1011	1725	1792	2475	1721	1023	840	768	1305
1929-30	768	731	1948	1143	2759	1498	1394	1285	1019	805	721	719	1223
1930-31	749	757	821	844	<u>888</u>	1493	1879	1207	<u>845</u>	<u>696</u>	<u>593</u>	<u>674</u>	<u>948</u>
1931-32	<u>687</u>	<u>731</u>	<u>809</u>	997	925	3172	2616	3716	2813	1394	982	846	1643
1932-33	901	1280	1104	1121	1016	1598	2798	3144	<u>4837</u>	1862	1187	1063	1825
1933-34	1000	966	1191	2202	1483	1803	1590	<u>1137</u>	961	814	754	737	1219
1934-35	887	1572	2260	1559	1848	1435	2574	3114	2201	1247	987	896	1713
1935-36	911	939	1030	2286	1793	2001	2962	3004	1940	1209	999	945	1667
1936-37	874	856	912	<u>837</u>	900	1356	2983	3727	2902	1384	1015	930	1558
1937-38	1001	1922	2203	2516	2180	2874	3571	4233	2707	1427	1149	1073	2237
1938-39	1043	1358	1852	1297	1366	2427	3020	2328	1517	1118	957	891	1599
1939-40	916	849	1219	1471	2426	2785	2332	1663	1114	916	818	853	1443
1940-41	864	1177	1464	1643	1674	1481	1466	1894	1329	1002	846	854	1306
1941-42	787	1040	2248	1968	1982	1450	1752	2296	1963	1162	929	850	1533
1942-43	832	2631	4329	3694	2776	2675	3378	2802	2911	1655	1316	1194	2514
1943-44	1278	1505	1280	1324	1591	1687	1994	2255	1655	1124	967	907	1463
1944-45	877	1002	1008	1607	3007	1700	2277	3606	1933	1207	998	921	1669
1945-46	911	1331	2655	2710	1786	2346	2668	3440	2476	1485	1153	1051	2004
1946-47	1065	1606	2147	1485	1974	2110	2356	1918	1651	1165	1000	933	1614
1947-48	1114	1408	1329	2933	1918	1787	2367	2907	3142	1588	1165	1065	1892
1948-49	1060	1231	1702	1115	1594	2083	3229	4171	2356	1343	1095	1006	1833
1949-50	1046	1105	1105	1794	1990	2882	2946	3472	3006	1643	1272	1167	1951
1950-51	<u>1916</u>	2774	4159	3001	3868	2371	3331	3028	2022	1464	1289	1214	2528
1951-52	1585	1935	2677	1854	2861	2275	<u>3888</u>	<u>4333</u>	3492	2181	<u>1539</u>	1396	2498
1952-53	1262	1178	1321	3801	4016	2250	2531	3301	3785	<u>2301</u>	1529	1338	2373
1953-54	1320	2622	3185	2523	3323	2559	2984	2985	2333	1548	1300	1231	2318
1954-55	1160	1178	1225	1279	1297	1498	1899	2899	2741	1339	1035	985	1545
1955-56	1057	1641	4760	4380	2392	2259	3259	4178	3164	1894	1461	1323	2652
1956-57	1538	1752	3299	1760	2861	4107	3173	2979	1985	1360	1187	1122	2258
1957-58	1240	1634	2439	2962	<u>4979</u>	2579	2752	3686	2866	1684	1360	1256	2436
1958-59	1190	1761	1678	2391	1956	1958	2407	2081	1533	1120	995	986	1669
1959-60	1044	996	978	1069	1782	2464	2697	2750	2265	1237	1052	995	1608
1960-61	1004	1445	1623	1301	2931	2558	2628	2783	2469	1271	1102	1071	1839
1961-62	1153	1801	2055	1715	1805	1702	2797	2425	2005	1251	1062	950	1724
1962-63	1498	1726	2560	1356	3255	1782	2620	3037	1686	1243	1053	998	1892
1963-64	1014	2013	1627	1935	1847	1828	2436	2789	3060	1567	1161	1022	1855
1964-65	849	1236	<u>7619</u>	<u>4604</u>	3178	2161	2507	2317	1814	1384	1192	1085	2499
1965-66	1104	1226	1136	1812	1317	2392	3737	2640	1544	1186	977	929	1668
1966-67	938	1687	2149	1973	1988	1884	1508	3244	2259	1243	979	895	1728
1967-68	1028	956	998	1268	2532	1759	1484	1504	1113	863	840	795	1257
1968-69	835	1656	1593	1995	1563	1661	2667	3645	2390	1452	1071	1016	1796
1969-70	1097	1047	1594	4142	2351	2213	1650	2284	1678	1106	950	906	1751
1970-71	949	2308	2083	4173	2566	2757	2921	4132	3421	2093	1460	1359	2518
1971-72	1325	1794	2315	3901	3838	<u>6960</u>	3262	3497	3010	1805	1470	<u>1401</u>	<u>2884</u>
1972-73	1249	1305	1828	1982	1555	1689	1964	2002	1253	1055	936	948	1481
1973-74	1058	<u>3343</u>	3565	4396	2459	3424	3474	3512	3832	1923	1371	1240	2801
1974-75	1209	1193	1862	1992	2368	2813	2287	3894	3834	2047	1443	1276	2167
1975-76	1332	1705	2980	2862	2128	1991	2310	3244	2302	1558	1496	1220	2096
1976-77	1145	1079	983	954	955	<u>1105</u>	<u>1382</u>	1671	1282	859	771	855	1087
1977-78	889	2201	4032	2383	2437	1986	1910	1878	1515	1172	989	1036	1867
1978-79	856	921	1239	1649	1724	2238	2190	2869	1429	1058	946	890	1500
1979-80	1054	1464	1702	3099	1870	2011	2304	1903	1392	1047	896	878	1635
1980-81	924	1124	1874	1223	1959	1504	1599	1625	1495	1034	848	794	1329
1981-82	887	1769	4627	2224	4328	2596	2743	3230	2557	1620	1213	1197	2404
1982-83	1264	1367	2914	2350	3611	3395	3035	3605	2843	1962	1511	1289	2422
1983-84	1235	2032	4061	2740	2963	3277	3100	3635	3524	1972	1460	1378	2614
1984-85	1481	2785	1916	1613	1792	1795	3193	2592	2161	1294	1129	1127	1903
1985-86	1271	1255	1559	2192	4433	3407	2203	2316	1800	1216	1035	1206	1975
1986-87	1178	1461	1401	1680	2295	1968	2195	1834	1184	1097	939	854	1502
1987-88	800	897	1460	1733	1577	1719	1740	1824	1747	1044	918	863	1359
1988-89	801	1432	1236	1614	1527	3489	3856	3102	2373	1414	1145	1001	1916
MEAN	1071	1488	2095	2123	2252	2275	2534	2804	2232	1361	1095	1025	1861
MEDIAN	1044	1367	1702	1854	1982	2083	2574	2899	2161	1261	1044	996	1796

LOS3A

USGS # 11507500

LINK R.

River: KLAMATH

Drainage Area:

3810 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

254.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1676	1616	1686	
1928-29	1604	1371	1277	1278	1231	611	260	387	586	1277	1255	1078	1018
1929-30	1171	1177	689	1290	306	574	725	970	1302	728	410	1105	873
1930-31	1413	1127	1181	954	244	245	260	<u>232</u>	<u>233</u>	<u>294</u>	363	362	<u>579</u>
1931-32	645	951	421	453	950	<u>56</u>	290	597	915	908	1020	925	675
1932-33	692	680	891	461	1012	513	780	877	678	541	724	1246	755
1933-34	1002	652	469	1165	648	426	784	747	853	1172	969	1048	829
1934-35	868	<u>194</u>	<u>260</u>	421	<u>207</u>	775	2381	1029	1014	959	1238	1261	886
1935-36	1132	<u>1137</u>	887	<u>289</u>	528	1397	1542	1578	1048	1080	1404	1337	1115
1936-37	1594	1663	987	1154	770	112	<u>144</u>	711	638	968	1196	1214	931
1937-38	1134	752	418	642	2493	2457	3955	4002	1652	1222	1270	1240	1762
1938-39	1141	864	665	849	739	1027	1606	974	1183	1207	1192	1242	1058
1939-40	959	1032	744	523	322	1194	2917	1303	1487	1480	1392	1327	1223
1940-41	1455	962	917	762	292	530	779	766	883	1389	1466	1413	973
1941-42	1467	1354	633	567	951	1104	1564	1905	1302	1288	1626	1549	1277
1942-43	1572	946	683	1192	3247	3685	4207	2827	1855	1070	1657	<u>1969</u>	2064
1943-44	1299	1413	1255	1146	699	607	809	659	534	1121	1422	1141	1011
1944-45	1235	1456	1580	1287	406	663	907	529	595	1483	<u>1763</u>	1745	1143
1945-46	1251	775	780	680	1625	3364	1935	949	975	1218	1474	1496	1376
1946-47	1621	1713	1569	1240	425	181	593	484	413	1087	1291	1399	1006
1947-48	1399	1239	1010	962	1249	444	243	643	1691	1303	1264	1286	1059
1948-49	1409	1406	2019	1830	1262	529	514	1139	895	873	862	1104	1155
1949-50	1738	1997	2093	1345	489	573	1237	963	812	907	1053	885	1179
1950-51	1121	1840	2954	1956	2805	2694	2374	2745	1643	1245	750	922	1916
1951-52	994	1344	1742	2876	2714	3110	4706	3999	2307	1589	1523	1811	2390
1952-53	2099	1971	2081	1721	4154	2904	2501	3485	<u>3133</u>	<u>1871</u>	1500	1868	2427
1953-54	2139	2346	2082	2624	1827	4167	4055	2436	2074	1545	1409	1506	2354
1954-55	1980	2325	1997	1368	1021	595	1063	1123	1153	946	885	589	1255
1955-56	836	1488	2763	5156	3625	4716	<u>5483</u>	<u>4599</u>	2517	1234	1116	1303	<u>2901</u>
1956-57	<u>2484</u>	2319	2685	2563	1902	4581	2699	2347	1410	1397	1105	1347	2242
1957-58	1588	2045	2565	2962	3346	5783	4632	2660	2725	1423	1359	1297	2694
1958-59	1645	2467	2906	2680	1879	1920	827	498	1255	1483	882	1379	1652
1959-60	1404	1424	1431	1482	1095	971	1117	1100	1487	1129	976	982	1217
1960-61	1010	940	1604	1635	682	1025	1282	1018	1278	1221	813	1004	1130
1961-62	1497	1921	1672	1864	534	417	1814	837	954	1045	793	1102	1207
1962-63	1290	1942	2430	1932	860	1755	2767	2213	1069	874	960	1178	1611
1963-64	1104	1733	2428	2381	1270	478	1853	431	424	814	544	1058	1209
1964-65	1273	796	2931	<u>6408</u>	<u>6215</u>	4393	745	663	312	389	495	1279	2140
1965-66	2406	3634	2326	2034	912	661	1826	414	512	575	901	839	1421
1966-67	1271	1249	2061	2121	2164	684	1544	2787	1223	854	888	1045	1488
1967-68	1111	1404	2188	1266	908	1812	1343	597	751	700	<u>346</u>	523	1081
1968-69	881	648	867	1184	1853	987	4145	2100	738	586	691	1002	1299
1969-70	1150	2216	1514	2708	3864	2631	770	707	756	597	1060	823	1552
1970-71	875	1969	2904	2516	2241	2651	4581	3216	1571	440	629	568	2010
1971-72	1991	2384	3065	2666	2064	<u>6930</u>	2465	1555	572	509	514	1120	2159
1972-73	1325	2168	2601	2439	1851	1615	1054	730	955	763	458	<u>338</u>	1357
1973-74	845	1250	2989	3805	2795	3783	4757	1855	907	575	622	740	2073
1974-75	1156	2316	2705	2529	2070	2757	2790	2464	984	482	652	970	1822
1975-76	1863	2637	3140	2488	2066	1637	1343	717	687	749	375	736	1536
1976-77	1173	2448	1522	1336	790	179	791	423	631	967	693	797	979
1977-78	960	966	2500	3024	2481	2257	2429	1508	850	790	964	775	1622
1978-79	1007	1295	1272	1290	936	1694	842	1161	1102	869	856	976	1110
1979-80	857	643	465	1639	2165	1949	1014	1131	724	745	1006	867	1098
1980-81	937	1054	993	885	605	1184	1241	784	1156	1071	1274	969	1015
1981-82	<u>350</u>	202	1892	2856	3693	5127	3743	2012	671	1155	872	772	1938
1982-83	1314	2523	3158	2075	2540	4891	3616	2942	2352	774	687	1044	2324
1983-84	2095	3376	<u>4315</u>	2398	1875	3752	3577	3059	1769	788	735	706	2547
1984-85	2346	<u>3979</u>	3045	1650	1021	1424	3341	1032	1106	1044	745	928	1806
1985-86	1151	1773	2365	1584	3890	5501	2327	1170	877	855	980	838	1932
1986-87	1333	1481	1892	1328	1785	1848	1280	958	773	585	756	987	1247
1987-88	1120	1032	937	1174	1349	1182	797	647	802	1046	920	821	985
1988-89	809	586	851	1041	1410	3270	3368	1666	1079	926	927	711	1386
MEAN	1321	1557	1758	1773	1662	1983	1989	1476	1128	998	993	1090	1477
MEDIAN	1251	1406	1672	1482	1270	1424	1544	1032	975	967	962	1053	1277

LNK3H

Monthly mean historical streamflow in cfs.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										<u>589</u>	<u>461</u>	<u>175</u>	
1928-29	0	0	0	0	0	0	5	597	522	632	533	257	<u>214</u>
1929-30	0	0	0	0	0	0	48	485	775	668	508	177	223
1930-31	0	0	0	0	0	0	312	853	734	823	675	207	303
1931-32	0	0	0	0	0	0	7	510	600	772	602	374	240
1932-33	0	0	0	0	0	0	105	<u>260</u>	795	742	647	338	242
1933-34	14	0	0	0	0	0	391	559	605	766	654	351	280
1934-35	0	0	0	0	0	0	<u>0</u>	414	798	691	655	390	247
1935-36	5	0	0	0	0	0	8	501	567	850	655	326	244
1936-37	0	0	0	0	0	0	34	541	423	869	716	383	250
1937-38	4	0	0	0	0	0	8	442	752	829	646	425	260
1938-39	20	0	0	0	0	0	427	588	777	824	742	341	312
1939-40	17	0	0	0	0	0	4	592	844	839	648	240	267
1940-41	0	0	0	0	0	0	343	499	592	783	525	273	253
1941-42	0	0	0	0	0	0	245	339	728	865	724	382	275
1942-43	2	0	0	0	0	0	4	409	606	899	805	401	263
1943-44	80	0	0	0	0	0	156	528	460	960	876	448	294
1944-45	61	0	0	0	0	0	62	382	466	934	855	443	269
1945-46	71	0	0	0	0	0	106	586	769	970	813	429	314
1946-47	79	0	0	0	0	0	258	797	<u>368</u>	967	686	423	301
1947-48	90	0	0	0	0	0	27	265	537	900	650	368	238
1948-49	0	0	0	0	0	0	102	555	827	892	695	491	299
1949-50	0	0	0	0	0	0	88	643	800	976	758	406	308
1950-51	<u>0</u>	0	0	0	0	0	404	514	982	983	712	574	349
1951-52	18	0	0	0	0	0	67	666	706	885	810	559	311
1952-53	121	0	0	0	0	0	160	357	654	1004	807	483	301
1953-54	96	0	0	0	0	0	119	897	753	1053	795	517	355
1954-55	75	0	0	0	0	0	166	730	1001	921	914	575	367
1955-56	99	0	0	0	0	0	101	589	825	954	802	576	330
1956-57	108	0	0	0	0	0	37	554	974	966	771	578	334
1957-58	1	0	0	0	0	0	83	732	598	844	802	485	298
1958-59	83	0	0	0	0	0	608	696	1047	1042	797	480	398
1959-60	107	0	0	0	0	0	195	574	<u>1094</u>	<u>1086</u>	816	600	374
1960-61	152	0	0	0	0	0	292	785	858	1045	825	579	380
1961-62	161	0	0	0	0	0	242	677	995	1020	807	625	379
1962-63	64	0	0	0	0	0	75	555	884	859	736	470	305
1963-64	226	0	0	0	0	0	156	754	521	893	847	613	336
1964-65	170	0	0	0	0	0	214	789	755	973	716	610	355
1965-66	158	0	0	0	0	0	513	896	845	941	896	593	406
1966-67	269	0	0	0	0	0	63	403	882	942	863	625	339
1967-68	205	0	0	0	0	0	583	776	958	1009	674	631	404
1968-69	224	0	0	0	0	0	209	744	827	981	901	660	381
1969-70	137	0	0	0	0	0	255	689	938	984	873	598	375
1970-71	273	0	0	0	0	0	91	482	747	966	921	686	350
1971-72	174	0	0	0	0	0	144	772	940	996	863	655	380
1972-73	167	0	0	0	0	0	380	903	983	1010	904	595	<u>414</u>
1973-74	110	0	0	0	0	0	147	855	996	984	919	<u>763</u>	400
1974-75	<u>315</u>	0	0	0	0	0	79	753	981	932	905	710	392
1975-76	221	0	0	0	0	0	270	<u>957</u>	938	989	489	646	377
1976-77	247	0	0	0	0	0	<u>610</u>	516	868	965	835	574	386
1977-78	58	0	0	0	0	0	101	490	938	952	851	549	330
1978-79	198	0	0	0	0	<u>6</u>	339	732	977	975	764	510	377
1979-80	281	0	0	0	0	0	269	755	770	942	857	652	379
1980-81	250	0	0	0	0	0	261	656	879	971	863	601	376
1981-82	99	0	0	0	0	0	56	726	887	843	881	583	342
1982-83	141	0	0	0	0	0	103	502	880	940	781	630	333
1983-84	179	0	0	0	0	0	187	685	866	989	<u>1172</u>	524	386
1984-85	200	0	0	0	0	0	388	871	917	995	842	470	393
1985-86	200	0	0	0	0	0	362	696	942	980	907	561	390
1986-87	104	0	0	0	0	0	463	859	869	815	870	665	389
1987-88	222	0	0	0	0	0	412	652	770	1011	883	734	391
1988-89	232	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	239	659	898	996	880	626	380
MEAN	108	0	0	0	0	0	200	627	795	914	776	503	330
MEDIAN	99	0	0	0	0	0	156	643	827	947	804	537	336

ACL3H

USGS # 11507400

KLAMATH LAKE

River: LINK RIVER

Drainage Area: 3810 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 254.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-1693	-1423	-938	
1928-29	-371	262	216	226	261	1174	1376	-65	-277	-1589	-1124	-576	-46
1929-30	39	-71	1265	286	1837	1051	410	-763	-1659	-1064	-395	-324	41
1930-31	-488	212	59	392	994	1016	418	-545	-568	-881	-784	121	-13
1931-32	294	254	829	836	189	2185	1139	633	-669	-1490	-1308	-743	179
1932-33	119	543	431	992	259	916	739	187	-417	-968	-1078	-854	72
1933-34	-75	587	703	823	488	904	-225	-530	-1065	-1685	-1275	-797	-182
1934-35	98	1449	1073	1018	1028	716	481	-44	-1160	-1205	-1467	-1035	73
1935-36	60	-20	455	1890	1255	699	509	163	-528	-1506	-1700	-847	32
1936-37	-597	-410	288	237	659	1662	1850	99	30	-1356	-1545	-965	-11
1937-38	117	938	1566	875	-77	758	1034	-475	-975	-1434	-1353	-901	6
1938-39	73	585	958	654	929	1015	-474	-455	-1576	-1519	-1343	-632	-154
1939-40	148	111	1069	1306	1900	1709	121	-652	-1543	-1773	-1498	-408	36
1940-41	-324	437	751	825	1331	1290	629	257	-442	-1674	-1343	-504	93
1941-42	-457	0	1805	1176	1291	529	585	104	-871	-1687	-1895	-1065	-48
1942-43	-514	1188	1908	1443	-931	390	1785	236	-183	-1023	-1646	-1397	111
1943-44	-280	-55	130	275	869	973	491	-364	116	-1756	-1843	-844	-198
1944-45	-507	494	29	343	2233	1031	264	1374	13	-1852	-2028	-1161	2
1945-46	-263	902	1838	1478	227	-260	1013	709	-528	-1381	-1634	-827	88
1946-47	-286	40	138	368	1332	1257	538	-426	341	-1449	-1308	-787	-32
1947-48	-257	316	356	896	534	1101	1477	1101	-343	-1597	-1283	-849	118
1948-49	-117	188	46	-407	641	2199	1200	522	-908	-1456	-1047	-788	2
1949-50	-449	-452	-603	773	1709	2213	931	174	-375	-1529	-1203	-447	50
1950-51	342	338	649	556	718	285	835	-15	-1583	-1649	-781	-583	-79
1951-52	730	476	1026	-677	271	13	2316	818	-321	-1008	-1317	-995	107
1952-53	-655	-168	270	2374	488	228	474	556	-304	-1503	-1145	-1017	-35
1953-54	-434	734	1007	343	1280	-114	965	-29	-640	-1506	-1234	-551	-27
1954-55	-478	-148	174	623	924	1623	1168	-73	-1383	-1262	-1314	-187	-34
1955-56	346	743	1945	527	-243	-538	1368	631	-230	-896	-963	-629	172
1956-57	-381	124	273	-299	1115	1093	449	280	-1032	-1610	-1192	-511	-150
1957-58	681	292	462	-146	3387	-1171	472	729	15	-729	-1054	-390	188
1958-59	-181	-13	-371	-26	855	379	501	241	-1386	-2030	-877	-615	-302
1959-60	68	155	189	148	1483	1782	1054	316	-1610	-1828	-1177	-482	2
1960-61	189	709	603	-23	2018	1550	59	0	-998	-1919	-908	-587	45
1961-62	-119	-92	548	-101	1898	1852	933	424	-1297	-1870	-935	-881	19
1962-63	1205	79	493	-171	2715	172	692	89	-1198	-1046	-1231	-687	75
1963-64	-130	464	-620	-195	518	1687	1118	441	583	-1290	-989	-859	55
1964-65	-579	815	4077	-927	-1327	-1563	1865	808	213	-716	-329	-1225	101
1965-66	-1072	-1197	-213	0	978	2275	634	-15	-440	-1192	-1477	-476	-190
1966-67	-285	454	428	176	340	1849	1425	281	-45	-1530	-1594	-990	38
1967-68	145	-235	-289	481	2218	623	-587	-462	-1307	-1469	-288	-318	-131
1968-69	-109	1000	989	1192	198	1368	1113	44	30	-1321	-1376	-955	180
1969-70	182	-956	1044	2199	-238	486	679	267	-640	-1343	-1823	-697	-65
1970-71	213	585	-257	1059	922	1283	-134	732	153	-662	-1160	-175	209
1971-72	-724	-240	-379	597	1168	213	997	281	-62	-1143	-792	-701	-73
1972-73	13	-141	55	246	569	1007	417	-260	-1533	-1704	-943	63	-189
1973-74	444	1724	625	449	59	828	284	415	-129	-688	-799	-476	228
1974-75	-181	-585	-195	-13	729	1161	576	415	213	-579	-776	-659	4
1975-76	-309	-287	-382	60	424	1150	731	41	-607	-1057	455	-430	-19
1976-77	-192	-702	0	195	792	1579	-269	316	-719	-1849	-1122	-420	-204
1977-78	124	1131	727	416	519	943	610	42	-696	-1230	-1238	-134	96
1978-79	-128	121	213	683	1073	660	667	-249	-1780	-1677	-1298	-686	-208
1979-80	141	1178	1275	1459	695	530	768	-166	-639	-1454	-1729	-692	110
1980-81	-155	450	1020	855	1621	561	171	-138	-1644	-1926	-1930	-889	-178
1981-82	784	1931	2326	-405	1768	358	-513	496	429	-1156	-1135	-331	368
1982-83	76	-442	-413	450	1314	460	750	345	-328	-413	-395	-445	72
1983-84	-847	-502	-145	268	869	1223	356	194	-44	-823	-818	96	-19
1984-85	-621	-603	-608	452	1203	1369	455	55	-837	-1578	-839	134	-128
1985-86	301	203	-485	1140	1662	-81	255	276	-598	-1365	-1378	-13	-20
1986-87	60	370	0	831	650	919	99	-558	-852	-597	-1312	-842	-107
1987-88	-221	297	1391	1010	925	870	442	-262	-539	-2015	-1517	-1027	-58
1988-89	-99	1492	745	616	348	1493	709	234	-1134	-1789	-1247	-328	83
MEAN	-97	279	546	543	916	900	675	144	-631	-1371	-1185	-632	3

KLA3S

USGS # 11507400

KLAMATH LAKE

River: LINK RIVER

Drainage Area: 3810 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 254.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										572	655	923	
1928-29	1233	1633	1494	1504	1492	1785	1641	919	831	320	685	759	1187
1929-30	1210	<u>1106</u>	1955	1577	2143	1625	1183	692	419	333	524	958	1138
1930-31	925	1339	1240	1346	1238	<u>1261</u>	991	<u>540</u>	398	235	253	690	<u>868</u>
1931-32	939	1204	1251	<u>1289</u>	1140	2221	1436	1739	846	190	314	557	1094
1932-33	810	1223	1322	1453	1272	1428	1625	1325	1056	316	292	730	1068
1933-34	941	1238	<u>1171</u>	1988	<u>1136</u>	1330	<u>950</u>	775	392	253	348	602	927
1934-35	966	1642	1333	1439	1235	1491	2862	1399	652	445	427	616	1206
1935-36	1198	1116	1343	2179	1783	2097	2080	2242	1087	424	359	816	1391
1936-37	997	1253	1275	1392	1429	1774	2028	1351	1091	481	366	632	1169
1937-38	1255	1688	1984	1517	2416	3215	4997	3970	1429	616	563	764	2029
1938-39	1233	1449	1623	1502	1668	2042	1559	1107	384	511	591	951	1216
1939-40	1124	1143	1812	1829	2222	2904	3041	1243	788	547	542	1159	1526
1940-41	1131	1399	1669	1587	1622	1820	1750	1522	1033	499	647	1181	1319
1941-42	1010	1354	2438	1743	2242	1633	2394	2348	1160	466	456	865	1504
1942-43	1060	2134	2591	2634	2316	4075	5996	3472	2278	947	816	974	2438
1943-44	1100	1358	1385	1420	1569	1579	1456	823	1110	325	455	746	1107
1944-45	<u>789</u>	1950	1610	1630	2638	1694	1233	2286	1075	564	589	1026	1415
1945-46	1058	1678	2418	2159	1852	3103	3055	2244	1216	807	653	1098	1778
1946-47	1413	1753	1707	1608	1757	1438	1389	855	1123	605	669	1035	1275
1947-48	1231	1555	1366	1858	1782	1545	1746	2009	1886	607	631	805	1416
1948-49	1292	1595	2065	1423	1903	2727	1816	2217	815	309	510	807	1455
1949-50	1289	1545	1490	2117	2198	2787	2256	1780	1237	354	607	844	1537
1950-51	1462	2177	3602	2512	3523	2979	3613	3244	1041	578	681	913	2186
1951-52	1742	1820	2768	2200	2985	3123	<u>7089</u>	5483	2692	1466	1016	1375	2808
1952-53	1565	1803	2351	4096	4642	3132	3135	4398	<u>3483</u>	1372	1162	1334	2693
1953-54	1801	3081	3089	2967	3107	4054	5139	3303	2187	1093	970	1472	2682
1954-55	1578	2177	2171	1991	1945	2218	2397	1780	771	605	485	977	1588
1955-56	1281	2231	4708	<u>5683</u>	3382	4178	6952	<u>5819</u>	3111	1292	956	1251	<u>3404</u>
1956-57	2211	2443	2958	2263	3016	5674	3185	3182	1352	753	684	1413	2427
1957-58	2271	2338	3027	2816	<u>6733</u>	4612	5188	4121	3338	<u>1539</u>	1108	1392	3179
1958-59	1548	2453	2536	2654	2734	2299	1935	1435	916	495	803	1244	1747
1959-60	1579	1579	1619	1630	2577	2753	2366	1990	971	388	614	1100	1593
1960-61	1350	1649	2207	1612	2700	2575	1632	1803	1138	347	731	997	1555
1961-62	1539	1828	2220	1763	2432	2269	2989	1938	651	195	665	847	1605
1962-63	<u>2559</u>	2021	2923	1762	3576	1928	3535	2857	755	687	465	961	1991
1963-64	1200	2197	1808	2186	1788	2165	3127	1626	1527	417	403	812	1600
1964-65	864	1611	<u>7009</u>	5481	4888	2830	2824	2260	1281	646	882	665	2596
1965-66	1492	2437	2113	2034	1890	2936	2973	1295	917	324	321	957	1637
1966-67	1256	1702	2488	2297	2504	2533	3032	3472	2060	265	157	681	1865
1967-68	1460	1169	1898	1747	3126	2435	1340	911	402	240	732	837	1353
1968-69	996	1648	1856	2376	2051	2355	5467	2888	1595	247	216	707	1860
1969-70	1469	1280	2558	4907	3627	3118	1704	1663	1054	238	<u>110</u>	723	1862
1970-71	1361	2554	2647	3575	3163	3934	4537	4430	2471	744	391	1078	2568
1971-72	1442	2144	2687	3263	3232	<u>7143</u>	3605	2608	1450	362	585	1075	2466
1972-73	1505	2026	2657	2685	2419	2622	1851	1372	405	69	418	996	1582
1973-74	1398	2974	3614	4254	2855	4611	5188	3124	1774	872	743	1027	2701
1974-75	1291	1731	2510	2516	2799	3919	3446	3631	2178	835	782	1022	2218
1975-76	1775	2350	2758	2548	2490	2787	2345	1715	1018	681	<u>1320</u>	952	1894
1976-77	1228	1745	1522	1531	1583	1758	1132	1255	779	82	405	952	1161
1977-78	1142	2097	3227	3440	2999	3200	3139	2040	1092	513	577	1190	2049
1978-79	1076	1416	1485	1973	2010	2360	1848	1645	<u>299</u>	167	322	800	1280
1979-80	1280	1821	1740	3098	2861	2479	2051	1720	855	233	134	827	1587
1980-81	1032	1504	2012	1740	2225	1745	1673	1302	391	116	207	681	1213
1981-82	1233	2133	4218	2451	5461	5485	3286	3233	1986	842	618	1024	2647
1982-83	1532	2081	2745	2525	3855	5351	4468	3789	2904	1301	1073	1228	2729
1983-84	1427	2874	4170	2667	2744	4975	4120	3938	2591	954	1089	1325	2740
1984-85	1924	<u>3375</u>	2437	2103	2223	2793	4184	1959	1186	462	748	<u>1533</u>	2071
1985-86	1651	1976	1881	2724	5552	5420	2945	2143	1221	471	509	1386	2301
1986-87	1498	1850	1892	2159	2435	2767	1843	1259	790	803	313	810	1530
1987-88	1121	1329	2327	2184	2274	2052	1651	1037	1032	<u>42</u>	286	<u>528</u>	1319
1988-89	942	2078	1596	1657	1757	4763	4316	2560	842	133	559	1009	1849
MEAN	1333	1837	2304	2316	2577	2884	2864	2247	1292	542	583	962	1807
MEDIAN	1280	1745	2113	2117	2416	2622	2397	1959	1087	476	581	955	1600

KLA3A

USGS # 11507500

LINK R.

River: KLAMATH

Drainage Area: 3810 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 254.3

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										572	655	923	
1928-29	1233	1633	1494	1504	1492	1785	1641	919	831	320	665	759	1187
1929-30	1210	<u>1106</u>	1955	1577	2143	1625	1183	692	419	333	524	958	1138
1930-31	925	1339	1240	1346	1238	<u>1261</u>	991	<u>540</u>	398	235	253	690	<u>868</u>
1931-32	939	1204	1251	<u>1289</u>	1140	2221	1436	1739	846	190	314	557	1094
1932-33	810	1223	1322	1453	1272	1428	1625	1325	1056	316	292	730	1068
1933-34	941	1238	<u>1171</u>	1988	<u>1136</u>	1330	<u>950</u>	775	392	253	348	602	927
1934-35	966	1642	1333	1439	1235	1491	2862	1399	652	445	427	616	1206
1935-36	1198	1116	1343	2179	1783	2097	2060	2242	1087	424	359	816	1391
1936-37	997	1253	1275	1392	1429	1774	2028	1351	1091	481	366	632	1169
1937-38	1255	1688	1984	1517	2416	3215	4997	3970	1429	616	563	764	2029
1938-39	1233	1449	1623	1502	1668	2042	1559	1107	384	511	591	951	1216
1939-40	1124	1143	1812	1829	2222	2904	3041	1243	788	547	542	1159	1526
1940-41	1131	1399	1669	1587	1622	1820	1750	1522	1033	499	647	1181	1319
1941-42	1010	1354	2438	1743	2242	1633	2394	2348	1160	466	456	865	1504
1942-43	1060	2134	2591	2634	2316	4075	5996	3472	2278	947	816	974	2438
1943-44	1100	1358	1385	1420	1569	1579	1456	823	1110	325	455	746	1107
1944-45	<u>789</u>	1950	1610	1630	2638	1694	1233	2286	1075	564	589	1028	1415
1945-46	1058	1678	2418	2159	1852	3103	3055	2244	1216	807	653	1098	1778
1946-47	1413	1753	1707	1608	1757	1438	1389	855	1123	605	669	1035	1275
1947-48	1231	1555	1366	1858	1782	1545	1746	2009	1886	607	631	805	1416
1948-49	1292	1595	2065	1423	1903	2727	1816	2217	815	309	510	807	1455
1949-50	1289	1545	1490	2117	2198	2787	2256	1780	1237	354	607	844	1537
1950-51	1462	2177	3602	2512	3523	2979	3613	3244	1041	578	681	913	2186
1951-52	1742	1820	2768	2200	2985	3123	<u>7089</u>	5483	2692	1466	1016	1375	2808
1952-53	1565	1803	2351	4096	4642	3132	3135	4398	<u>3483</u>	1372	1162	1334	2693
1953-54	1801	3081	3089	2967	3107	4054	5139	3303	2187	1093	970	1472	2682
1954-55	1578	2177	2171	1991	1945	2218	2397	1780	771	605	485	977	1588
1955-56	1281	2231	4708	<u>5683</u>	3382	4178	6952	<u>5819</u>	3111	1292	956	1251	<u>3404</u>
1956-57	2211	2443	2958	2263	3016	5674	3185	3182	1352	753	684	1413	2427
1957-58	2271	2338	3027	2816	<u>6733</u>	4612	5188	4121	3338	<u>1539</u>	1108	1392	3179
1958-59	1548	2453	2536	2654	2734	2299	1935	1435	916	495	803	1244	1747
1959-60	1579	1579	1619	1630	2577	2753	2366	1990	971	388	614	1100	1593
1960-61	1350	1649	2207	1612	2700	2575	1632	1803	1138	347	731	997	1555
1961-62	1539	1828	2220	1763	2432	2269	2989	1938	651	195	665	847	1605
1962-63	<u>2559</u>	2021	2923	1762	3576	1928	3535	2857	755	687	465	961	1991
1963-64	1200	2197	1808	2186	1788	2165	3127	1626	1527	417	403	812	1600
1964-65	864	1611	<u>7009</u>	5481	4888	2830	2824	2260	1281	646	882	665	2596
1965-66	1492	2437	2113	2034	1890	2936	2973	1295	917	324	321	957	1637
1966-67	1256	1702	2488	2297	2504	2533	3032	3472	2060	265	157	681	1865
1967-68	1460	1169	1898	1747	3126	2435	1340	911	402	240	732	837	1353
1968-69	996	1648	1856	2376	2051	2355	5467	2888	1595	247	216	707	1860
1969-70	1469	1260	2558	4907	3627	3118	1704	1663	1054	238	<u>110</u>	723	1862
1970-71	1361	2554	2647	3575	3163	3934	4537	4430	2471	744	391	1078	2568
1971-72	1442	2144	2687	3263	3232	<u>7143</u>	3605	2608	1450	362	585	1075	2466
1972-73	1505	2026	2657	2685	2419	2622	1851	1372	405	69	418	996	1582
1973-74	1398	2974	3614	4254	2855	4611	5188	3124	1774	872	743	1027	2701
1974-75	1291	1731	2510	2516	2799	3919	3446	3631	2178	835	782	1022	2218
1975-76	1775	2350	2758	2548	2490	2787	2345	1715	1018	681	<u>1320</u>	952	1894
1976-77	1228	1745	1522	1531	1583	1758	1132	1255	779	82	405	952	1161
1977-78	1142	2097	3227	3440	2999	3200	3139	2040	1092	513	577	1190	2049
1978-79	1076	1416	1485	1973	2010	2360	1848	1645	<u>299</u>	167	322	800	1280
1979-80	1280	1821	1740	3098	2861	2479	2051	1720	855	233	134	827	1587
1980-81	1032	1504	2012	1740	2225	1745	1673	1302	391	116	207	681	1213
1981-82	1233	2133	4218	2451	5461	5485	3286	3233	1986	842	618	1024	2647
1982-83	1532	2081	2745	2525	3855	5351	4468	3789	2904	1301	1073	1228	2729
1983-84	1427	2874	4170	2667	2744	4975	4120	3938	2591	954	1089	1325	2740
1984-85	1924	<u>3375</u>	2437	2103	2223	2793	4184	1959	1186	462	748	<u>1533</u>	2071
1985-86	1651	1976	1881	2724	5552	5420	2945	2143	1221	471	509	1386	2301
1986-87	1498	1850	1892	2159	2435	2767	1843	1259	790	803	313	810	1530
1987-88	1121	1329	2327	2184	2274	2052	1651	1037	1032	<u>42</u>	286	<u>528</u>	1319
1988-89	942	2078	1596	1657	1757	4763	4316	2560	842	133	559	1009	1849
MEAN	1333	1837	2304	2316	2577	2884	2864	2247	1292	542	583	962	1807
MEDIAN	1280	1745	2113	2117	2416	2622	2397	1959	1087	476	581	955	1600

LNK3A

USGS # 11510600

JOHN C BOYLE

River: KLAMATH

Drainage Area:

4080 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

224.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1715	1801	1772	
1928-29	1928	1641	1631	1600	1482	994	644	591	734	1354	1383	1070	1255
1929-30	1227	1339	1045	1542	811	948	1042	1192	1430	855	599	1318	1113
1930-31	1592	1457	1517	1253	<u>540</u>	<u>434</u>	<u>460</u>	<u>374</u>	<u>345</u>	<u>377</u>	<u>462</u>	<u>576</u>	<u>785</u>
1931-32	968	1236	804	774	1324	826	574	792	1025	794	1130	1172	949
1932-33	997	1047	1239	776	1321	933	842	1053	467	546	824	1434	954
1933-34	1297	1005	835	1521	973	664	775	619	830	1100	1056	1271	996
1934-35	1188	<u>588</u>	<u>653</u>	<u>759</u>	636	1237	3048	1087	749	938	1287	1460	1136
1935-36	1441	1508	1264	877	1281	2045	2125	1621	1104	1049	1477	1604	1449
1936-37	1924	1955	1311	1511	1131	713	606	644	701	838	1250	1550	1178
1937-38	1496	1153	1123	1208	3292	3853	5119	4671	1537	1145	1402	1535	2286
1938-39	1502	1257	1072	1207	1110	1443	1520	977	1094	1130	1261	1571	1262
1939-40	1321	1367	1186	1134	943	1881	3763	1359	1371	1476	1523	1721	1586
1940-41	1852	1341	1313	1173	1053	1029	1058	934	995	1384	1712	1856	1310
1941-42	1822	1731	1165	1263	1779	1475	1823	2305	1418	1347	1823	2004	1661
1942-43	1860	1350	1205	1992	4271	5030	5066	3490	2089	1160	1809	<u>2430</u>	2632
1943-44	2005	2122	1951	1439	1175	1175	1239	1139	1153	1473	1812	1809	1543
1944-45	1597	1890	1876	1369	1119	1136	1222	964	999	1505	1950	2119	1481
1945-46	1578	1250	1291	1474	2183	4210	2175	1179	1303	1402	1787	2012	1819
1946-47	1982	1996	1697	1315	598	608	569	742	967	1077	1508	1756	1239
1947-48	1696	1629	1229	887	1270	807	602	1108	2189	1474	1682	1862	1368
1948-49	1861	1820	2101	1921	1789	1391	847	1730	968	887	1054	1330	1475
1949-50	2067	2267	2126	1471	1084	1364	1474	1403	896	943	1187	1311	1469
1950-51	1588	2251	3135	2141	3658	3469	2217	3329	1387	1125	1037	1287	2212
1951-52	1565	1762	1954	2899	3678	4280	5680	4373	2476	1703	1784	2198	2856
1952-53	2417	2238	2119	2489	4956	3613	2726	4179	<u>3605</u>	1701	1837	2408	2841
1953-54	2491	2678	2337	2739	2788	4824	4134	2582	2439	1497	1879	2069	2703
1954-55	2290	2553	2231	1655	1233	902	1275	1476	947	936	1123	1154	1483
1955-56	1237	1933	3834	6509	4814	6288	<u>6693</u>	<u>5558</u>	3158	1687	1707	2009	<u>3784</u>
1956-57	<u>3200</u>	3380	3279	2667	2257	5794	3570	3153	1352	1440	1455	1838	2789
1957-58	2278	2853	3205	3391	5135	6622	5561	3301	3375	<u>1944</u>	<u>2097</u>	2114	3476
1958-59	2253	2956	3189	2767	2540	1765	1065	973	1038	1428	1212	1935	1924
1959-60	1758	1764	1720	1502	1511	1378	1472	1311	962	818	1005	1217	1367
1960-61	1351	1526	2246	1751	1466	1644	1547	1352	1238	891	964	1270	1437
1961-62	1811	2437	2228	1894	1307	1328	2188	1168	728	703	868	1253	1493
1962-63	2307	2548	3128	1959	1707	2347	3230	2614	685	661	948	1410	1964
1963-64	1555	2285	2721	2478	1643	1367	2305	705	781	596	718	1341	1539
1964-65	1656	1508	3895	<u>7905</u>	<u>7780</u>	5670	1636	1372	689	571	1054	1876	2945
1965-66	2544	3989	2707	1933	1229	1342	1765	591	580	593	1034	1150	1622
1966-67	1640	1686	2662	2697	2769	1582	2050	3478	1220	537	811	1416	1875
1967-68	1559	1644	2255	1539	1486	1956	1234	809	590	551	684	878	1266
1968-69	1247	1235	1333	1590	2665	2081	4574	2563	936	639	813	1370	1743
1969-70	1691	2447	2103	3955	4654	3296	1098	1190	694	549	994	1134	1969
1970-71	1271	2473	3372	3229	2662	3652	5524	3935	1742	582	943	1438	2565
1971-72	2568	2807	3364	3384	2831	<u>8755</u>	2956	2036	593	543	862	1722	2709
1972-73	1684	2677	3141	2947	2370	2012	1092	814	670	501	590	776	1603
1973-74	1153	1759	3558	4657	3459	4647	5645	2396	685	612	951	1177	2554
1974-75	1630	2615	2790	2672	2649	3725	3327	2910	855	645	914	1431	2178
1975-76	2263	2899	3498	2794	2420	2150	1356	764	550	517	1034	1320	1797
1976-77	1671	2790	1739	1544	1091	634	723	873	651	638	620	822	1149
1977-78	1269	1294	3144	3662	2961	3007	3123	1837	669	591	964	1138	1968
1978-79	1226	1475	1634	1741	1296	2278	1093	1244	671	633	941	1131	1282
1979-80	1179	1165	1112	2499	2934	2698	1323	1275	672	587	987	1172	1463
1980-81	1200	1160	1227	1174	1227	1654	1305	888	723	641	939	828	1080
1981-82	<u>786</u>	897	2753	3298	5288	6024	4770	2138	642	1339	944	1217	2492
1982-83	1739	2890	3436	2701	4194	6551	4531	3485	2327	794	972	1453	2914
1983-84	2595	3832	<u>5733</u>	3522	3169	4823	4314	3321	1822	646	943	1559	3024
1984-85	3157	<u>4506</u>	3598	1988	1419	2129	3786	1165	990	664	981	1499	2157
1985-86	1562	1997	2888	2090	5216	6820	2690	1499	649	672	991	1278	2347
1986-87	1657	1785	2080	1676	2355	2411	1186	1025	697	732	901	1248	1475
1987-88	1281	1223	1330	1505	2071	1750	1085	889	704	606	952	982	1196
1988-89	976	978	1276	1416	2050	4835	4168	2172	831	656	1041	1197	1798
MEAN	1713	1965	2190	2187	2329	2726	2403	1815	1154	954	1182	1472	1836
MEDIAN	1640	1764	2101	1751	1789	2012	1765	1311	947	828	1036	1413	1603

JCB3H

USGS # 11510600

JOHN C BOYLE

River: KLAMATH

Drainage Area: 4080 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 224.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28													0
1928-29													0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62						9	-2	-17	14	6	-18	-3	-1
1962-63	0	7	-1	5	-7	11	-1	-9	4	-6	6	-3	0
1963-64	-3	9	-5	-7	24	-19	6	-3	6	0	6	-11	1
1964-65	17	-12	-9	6	-4	11	-2	0	-3	10	-11	7	0
1965-66	-8	1	3	-4	1	-10	13	-9	-2	4	-1	-3	0
1966-67	5	2	-1	3	0	5	-5	9	-13	-9	2	1	-1
1967-68	9	-2	7	-1	-6	-6	6	0	2	-12	6	4	1
1968-69	-2	5	4	-10	2	2	0	-14	18	-14	9	4	1
1969-70	2	-11	-4	10	4	1	-5	3	-2	2	-2	-5	-2
1970-71	7	-6	0	-1	1	-1	14	-9	-2	0	-7	7	1
1971-72	4	-9	0	3	0	-1	7	-5	-1	0	6	1	0
1972-73	4	-13	5	-2	1	-5	3	-3	4	-1	4	5	0
1973-74	-5	-3	-1	5	-1	-1	0	5	-2	-1	-5	13	0
1974-75	-2	-13	4	4	-2	-3	0	10	-5	-8	12	-4	0
1975-76	-7	2	3	-5	2	2	6	-8	2	11	-12	-2	0
1976-77	5	-6	2	-2	4	3	1	4	-8	4	1	-6	0
1977-78	3	2	-1	-1	3	-10	7	-2	-2	-1	4	4	0
1978-79	-1	-6	2	6	-3	-5	4	-1	7	-2	-3	3	-1
1979-80	-1	-5	8	-8	1	1	7	0	-12	3	-1	6	1
1980-81	4	-2	-2	5	-12	7	-2	3	-8	4	4	-1	-1
1981-82	3	-5	-5	2	-3	5	0	-2	11	-1	-10	4	0
1982-83	-2	0	2	-2	1	-1	1	0	7	-1	-1	-2	0
1983-84	-5	2	2	-3	0	0	1	7	-4	3	-3	7	1
1984-85	-8	1	0	1	-1	0	2	4	-5	7	-8	-7	-2
1985-86	10	5	-4	-4	0	-1	-9	6	8	-2	-4	1	1
1986-87	3	3	-5	8	-3	-7	1	-2	10	-9	-1	2	-1
1987-88	3	3	0	0	-1	-7	8	3	2	-6	1	-4	1
1988-89	0	1	-7	7	-2	7	2	-15	10	0	-3	-4	-1
MEAN	1	-2	0	1	0	0	2	-2	1	-1	-1	0	0

JCB3S

USGS # 11510600

JOHN C BOYLE

River: KLAMATH

Drainage Area: 4080 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 224.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-1693	-1423	-938	
1928-29	-371	262	216	226	261	1174	1376	-65	-277	-1589	-1124	-576	-46
1929-30	39	-71	1285	286	1837	1051	410	-763	-1659	-1064	-395	-324	41
1930-31	-488	212	59	392	994	1016	418	-545	-568	-881	-784	121	-13
1931-32	294	254	829	836	189	2165	1139	633	-669	-1490	-1308	-743	179
1932-33	119	543	431	992	259	916	739	187	-417	-968	-1078	-854	72
1933-34	-75	587	703	823	488	904	-225	-530	-1065	-1685	-1275	-797	-182
1934-35	98	1449	1073	1018	1028	716	481	-44	-1160	-1205	-1467	-1035	73
1935-36	60	-20	455	1890	1255	699	509	163	-528	-1506	-1700	-847	32
1936-37	-597	-410	288	237	659	1662	1850	99	30	-1356	-1545	-965	-11
1937-38	117	936	1566	875	-77	758	1034	-475	-975	-1434	-1353	-901	6
1938-39	73	585	958	654	929	1015	-474	-455	-1576	-1519	-1343	-632	-154
1939-40	148	111	1069	1306	1900	1709	121	-652	-1543	-1773	-1498	-408	36
1940-41	-324	437	751	825	1331	1290	629	257	-442	-1674	-1343	-504	93
1941-42	-457	0	1805	1176	1291	529	585	104	-871	-1687	-1895	-1065	-48
1942-43	-514	1188	1908	1443	-931	390	1785	236	-183	-1023	-1646	-1397	111
1943-44	-280	-55	130	275	869	973	491	-364	116	-1756	-1843	-844	-198
1944-45	-507	494	29	343	2233	1031	264	1374	13	-1852	-2028	-1161	2
1945-46	-263	902	1638	1478	227	-260	1013	709	-528	-1381	-1634	-827	88
1946-47	-286	40	138	368	1332	1257	538	-426	341	-1449	-1308	-787	-32
1947-48	-257	316	356	896	534	1101	1477	1101	-343	-1597	-1283	-849	118
1948-49	-117	188	46	-407	641	2199	1200	522	-908	-1456	-1047	-788	2
1949-50	-449	-452	-803	773	1709	2213	931	174	-375	-1529	-1203	-447	50
1950-51	342	338	649	556	718	285	835	-15	-1583	-1649	-781	-583	-79
1951-52	730	476	1026	-677	271	13	2316	818	-321	-1008	-1317	-995	107
1952-53	-655	-168	270	2374	488	228	474	556	-304	-1503	-1145	-1017	-35
1953-54	-434	734	1007	343	1280	-114	965	-29	-640	-1506	-1234	-551	-27
1954-55	-478	-148	174	623	924	1623	1168	-73	-1383	-1262	-1314	-187	-34
1955-56	346	743	1945	527	-243	-538	1368	631	-230	-896	-963	-629	172
1956-57	-381	124	273	-299	1115	1093	449	280	-1032	-1610	-1192	-511	-150
1957-58	681	292	462	-146	3387	-1171	472	729	15	-729	-1054	-390	188
1958-59	-181	-13	-371	-26	855	379	501	241	-1386	-2030	-877	-615	-302
1959-60	68	155	189	148	1483	1782	1054	316	-1610	-1828	-1177	-482	2
1960-61	189	709	603	-23	2018	1550	59	0	-998	-1919	-908	-587	45
1961-62	-119	-92	548	-101	1898	1861	931	408	-1284	-1864	-953	-884	18
1962-63	1205	86	492	-166	2708	183	691	80	-1195	-1052	-1225	-691	76
1963-64	-133	473	-625	-202	542	1667	1124	438	590	-1289	-983	-870	55
1964-65	-562	803	4069	-921	-1331	-1552	1864	808	211	-706	-339	-1218	102
1965-66	-1080	-1196	-210	-4	978	2266	647	-24	-442	-1188	-1478	-479	-192
1966-67	-279	456	427	179	340	1855	1420	290	-59	-1539	-1592	-989	38
1967-68	154	-237	-282	480	2213	617	-581	-462	-1305	-1480	-282	-314	-131
1968-69	-111	1005	993	1182	200	1370	1112	30	48	-1335	-1367	-950	180
1969-70	184	-967	1040	2209	-234	487	674	270	-643	-1341	-1825	-703	-66
1970-71	220	579	-257	1058	923	1282	-120	723	151	-662	-1167	-167	209
1971-72	-720	-250	-379	600	1169	212	1003	276	-63	-1144	-786	-700	-73
1972-73	17	-154	60	244	570	1001	420	-263	-1529	-1705	-940	67	-189
1973-74	439	1721	624	454	59	827	284	419	-132	-689	-804	-463	228
1974-75	-182	-598	-191	-9	727	1159	576	425	208	-587	-763	-663	4
1975-76	-316	-286	-379	55	426	1152	737	33	-604	-1047	444	-432	-19
1976-77	-187	-708	2	193	797	1582	-268	319	-727	-1845	-1121	-426	-204
1977-78	127	1133	726	416	521	933	617	40	-698	-1230	-1233	-131	97
1978-79	-129	115	215	689	1070	655	671	-250	-1773	-1679	-1301	-683	-208
1979-80	140	1173	1283	1451	696	531	775	-166	-651	-1451	-1730	-687	110
1980-81	-151	448	1018	861	1609	568	170	-135	-1652	-1921	-1927	-890	-178
1981-82	787	1926	2321	-402	1765	363	-512	494	439	-1158	-1145	-327	368
1982-83	74	-442	-411	449	1316	460	750	345	-321	-414	-397	-448	72
1983-84	-852	-500	-143	265	869	1223	357	200	-48	-820	-821	103	-19
1984-85	-629	-603	-608	453	1202	1369	457	59	-842	-1570	-847	127	-129
1985-86	311	208	-488	1136	1662	-82	247	283	-591	-1367	-1382	-13	-20
1986-87	63	373	-5	839	647	912	100	-560	-842	-606	-1314	-840	-107
1987-88	-218	300	1391	1010	924	863	450	-259	-537	-2021	-1516	-1031	-57
1988-89	-99	1493	738	624	345	1500	711	219	-1124	-1789	-1250	-332	83
MEAN	-96	279	546	543	916	900	676	143	-631	-1371	-1186	-631	3

JCB3SS

USGS # 11510600

JOHN C BOYLE

River: KLAMATH

Drainage Area: 4080 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 224.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										611	839	1009	
1928-29	1557	1903	1847	1826	1744	2168	2025	1123	978	397	793	750	1424
1929-30	1266	<u>1269</u>	2310	1829	2648	1999	1500	914	547	460	712	1171	1378
1930-31	<u>1104</u>	1668	1576	1645	1534	<u>1451</u>	1191	682	511	319	352	904	<u>1074</u>
1931-32	1263	1490	1633	1610	1514	2991	1720	1935	956	76	424	803	1368
1932-33	1116	1590	1670	1768	1580	1849	1686	1501	845	321	393	918	1267
1933-34	1236	1591	1538	2344	<u>1461</u>	1569	<u>941</u>	<u>648</u>	370	182	435	825	1094
1934-35	1286	2036	1727	1777	1664	1953	3528	1457	387	424	475	815	1457
1935-36	1506	1488	1719	2767	2536	2744	2643	2285	1143	393	432	1082	1725
1936-37	1327	1545	1598	1748	1790	2375	2490	1284	1154	351	421	968	1417
1937-38	1617	2089	2689	2083	3214	4611	6160	4639	1314	539	695	1060	2553
1938-39	1595	1842	2030	1861	2039	2458	1473	1110	295	434	659	1280	1420
1939-40	1486	1478	2254	2440	2843	3590	3887	1298	672	542	674	1552	1888
1940-41	1529	1778	2064	1997	2383	2319	2030	1690	1144	494	893	1625	1657
1941-42	1365	1731	2970	2439	3070	2004	2653	2748	1276	526	653	1320	1888
1942-43	1348	2538	3113	3434	3340	5421	6855	4135	2512	1036	967	1435	3005
1943-44	1806	2067	2081	1713	2044	2147	1887	1302	1730	677	846	1414	1639
1944-45	1150	<u>2384</u>	<u>1906</u>	<u>1712</u>	<u>3351</u>	<u>2167</u>	<u>1547</u>	<u>2721</u>	<u>1478</u>	<u>587</u>	<u>776</u>	<u>1400</u>	<u>1753</u>
1945-46	1385	2153	2929	2952	2409	3950	3294	2474	1544	991	966	1614	2221
1946-47	1775	2036	1835	1682	1930	1865	1365	1112	1677	595	886	1392	1508
1947-48	1528	1945	1585	1783	1804	1909	2106	2474	2384	777	1049	1382	1724
1948-49	1744	2009	2146	<u>1515</u>	2430	3590	2149	2807	888	323	702	1033	1775
1949-50	1618	1814	<u>1523</u>	2244	2793	3577	2494	2220	1321	390	741	1270	1827
1950-51	1930	2589	3784	2698	4376	3754	3456	3828	786	458	969	1278	2482
1951-52	2313	2237	2981	2222	3949	4293	8063	5856	2861	1579	1277	1762	3274
1952-53	1883	2070	2389	4863	5444	3840	3360	5093	3955	1202	1499	1874	3107
1953-54	2153	3413	3344	3083	4068	4710	5218	3449	2551	1045	1440	2035	3031
1954-55	1887	2405	2405	2278	2156	2525	2809	2133	565	595	723	1542	1816
1955-56	1683	2675	5779	<u>7036</u>	4571	5750	<u>8162</u>	<u>6778</u>	3752	1745	1546	1956	<u>4286</u>
1956-57	2927	3504	3552	2367	3371	6887	4056	3987	1294	796	1034	1905	2973
1957-58	2960	3145	3667	3244	<u>8522</u>	5451	6117	4762	<u>3988</u>	<u>2060</u>	1845	<u>2208</u>	3962
1958-59	2155	2943	2818	2741	3396	2144	2173	1909	699	440	1133	1800	2019
1959-60	1933	1918	1909	1650	2994	3160	2721	2201	447	76	643	1334	1744
1960-61	1691	2235	2850	1729	3485	3194	1898	2137	1098	17	882	1263	1863
1961-62	1853	2345	2776	1793	3205	3190	3361	2252	439	-141	723	995	1890
1962-63	<u>3576</u>	2633	3620	1793	4415	2530	3996	3248	375	468	459	1189	2345
1963-64	1648	2758	2097	2276	2185	3034	3584	1898	1892	200	583	1084	1931
1964-65	1265	2311	<u>7964</u>	6984	6449	4118	3714	2969	1654	838	1430	1269	3402
1965-66	1622	2793	2498	1929	2207	3608	2925	1463	983	346	452	1265	1836
1966-67	1629	2142	3089	2876	3109	3437	3533	4172	2044	-60	83	1052	2252
1967-68	1917	1407	1973	2019	3698	2573	1237	1123	243	80	1076	1196	1539
1968-69	1361	2240	2325	2772	2865	3451	5896	3337	1811	285	347	1079	2305
1969-70	2013	1480	3143	6164	4420	3784	2027	2149	990	192	42	1029	2278
1970-71	1763	3052	3116	4287	3585	4934	5494	5140	2639	886	697	1956	3124
1971-72	2022	2557	2985	3983	4000	<u>8967</u>	4103	3085	1470	396	939	1677	3016
1972-73	1868	2522	3201	3191	2940	3013	1892	1453	124	-194	555	1438	1828
1973-74	1702	3480	4182	5111	3517	5474	6076	3670	1550	908	1067	1476	3182
1974-75	1764	2017	2599	2663	3376	4883	3983	4088	2044	990	1056	1478	2574
1975-76	2168	2614	3119	2849	2846	3302	2363	1754	883	460	<u>1967</u>	1534	2154
1976-77	1731	2082	1741	1737	1888	2216	1065	1708	791	-242	334	970	1332
1977-78	1455	2427	3870	4077	3483	3940	3841	2367	909	313	582	1556	2395
1978-79	1294	1590	1849	2430	2367	2939	2102	1727	<u>-125</u>	-71	405	958	1452
1979-80	1600	2338	2395	3949	3630	3229	2367	1864	791	78	114	1138	1952
1980-81	1299	1608	2245	2035	2836	2221	1736	1409	-50	-310	<u>-125</u>	<u>538</u>	1278
1981-82	1672	2823	5073	2896	7053	6387	4313	3358	1968	1025	680	1473	3202
1982-83	1955	2447	3025	3149	5510	7010	5384	4331	2886	1321	1356	1635	3319
1983-84	1922	3332	5590	3787	4038	6046	4858	4206	2640	815	1295	2185	3391
1984-85	2728	<u>3904</u>	2990	2441	2621	3498	4632	2095	1064	89	975	2097	2421
1985-86	2074	2205	2399	3226	6879	6738	3299	2477	1001	286	516	1826	2717
1986-87	1824	2157	2076	2515	3002	3323	1750	1324	724	941	457	1073	1757
1987-88	1284	1523	2720	2515	2995	2613	1948	1282	936	<u>-404</u>	318	684	1530
1988-89	1110	2470	2014	2040	2395	6335	5118	3050	605	-138	670	1490	2260
MEAN	1725	2243	2736	2731	3245	3626	3280	2585	1318	497	771	1344	2169
MEDIAN	1672	2157	2405	2430	2995	3302	2721	2220	1064	437	707	1300	1890

JCB3A

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1715	1801	1826	
1928-29	1977	1745	1665	1617	1625	1133	692	579	784	1271	1385	1092	1297
1929-30	1316	1335	1110	1575	974	987	1067	1138	1374	724	536	1262	1116
1930-31	1583	1425	1469	1239	<u>541</u>	<u>496</u>	<u>400</u>	<u>332</u>	<u>320</u>	<u>323</u>	<u>407</u>	<u>553</u>	<u>760</u>
1931-32	927	1232	775	908	1238	1123	665	783	1039	871	1120	1179	987
1932-33	966	1069	1258	<u>805</u>	1350	1182	860	1122	568	523	835	1479	999
1933-34	1225	1037	832	1644	1037	731	746	605	810	995	1048	1232	995
1934-35	1187	<u>589</u>	<u>674</u>	866	760	1327	2923	1198	788	949	1311	1454	1169
1935-36	1476	1494	1289	1120	1478	2141	2235	1614	1165	1129	1488	1676	1524
1936-37	1926	1934	1422	1450	1195	945	830	718	791	857	1232	1538	1236
1937-38	1483	1232	1275	1319	3337	4217	5725	4843	1590	1194	1436	1544	2424
1938-39	1486	1297	1172	1241	1210	1611	1539	1054	1114	1080	1260	1535	1300
1939-40	1319	1415	1252	1240	1257	2196	3873	1359	1314	1448	1493	1640	1648
1940-41	1890	1377	1358	1269	1245	1131	1115	1048	994	1456	1725	1770	1366
1941-42	1844	1699	1378	1343	1964	1578	1889	2252	1454	1361	1817	2007	1713
1942-43	1840	1425	1421	2183	4289	4855	4876	3507	2114	1254	1882	2452	2661
1943-44	2098	2242	2049	1481	1280	1356	1307	1185	1158	1473	1851	1805	1609
1944-45	1617	1906	1880	1377	1275	1215	1224	1065	1015	1503	1989	2146	1519
1945-46	1712	1344	1451	1633	2172	4097	2264	1301	1312	1436	1818	1978	1876
1946-47	1988	1994	1721	1338	683	683	603	755	940	1112	1430	1674	1247
1947-48	1694	1575	1220	1045	1258	922	743	1206	2131	1483	1618	1802	1390
1948-49	1827	1883	2127	1870	1873	1562	1045	1769	990	868	1067	1352	1519
1949-50	2023	2271	2039	1495	1231	1578	1567	1475	950	910	1203	1269	1503
1950-51	1644	2361	3496	2266	3813	3591	2323	3345	1388	1143	1082	1264	2302
1951-52	1621	1852	2161	3035	3973	4586	6470	4787	2672	1894	1927	2326	3102
1952-53	2624	2400	2291	2864	5247	3904	3066	4418	<u>3869</u>	1805	1935	<u>2597</u>	3068
1953-54	2659	2938	2544	3037	3060	5181	4523	2814	2531	1574	1907	2151	2907
1954-55	2404	2712	2264	1647	1283	1096	1305	1518	999	905	1125	1131	1534
1955-56	1249	2014	4376	7049	4998	6518	<u>7339</u>	<u>5784</u>	3227	1704	1738	2044	<u>4002</u>
1956-57	<u>3427</u>	3644	3491	2769	2508	6254	3777	3255	1477	1542	1544	1868	2970
1957-58	2341	2929	3391	3587	5911	7154	5978	3498	3409	<u>2115</u>	<u>2099</u>	2195	3700
1958-59	2303	3098	3335	2931	2692	1939	1148	1041	1076	1472	1234	1946	2015
1959-60	1772	1774	1784	1463	1612	1481	1578	1385	985	836	1068	1237	1414
1960-61	1390	1541	2283	1659	1533	1745	1504	1390	1312	917	1041	1313	1469
1961-62	1854	2509	2355	2029	1385	1455	2283	1202	780	699	864	1248	1555
1962-63	2307	2539	3239	2055	1749	2490	3579	2859	765	651	987	1461	2059
1963-64	1581	2383	2965	2645	1766	1473	2447	744	843	587	753	1343	1625
1964-65	1782	1661	4286	<u>8431</u>	<u>8155</u>	6097	1684	1418	691	530	1047	1955	3122
1965-66	2688	4246	2862	2149	1406	1422	1845	622	607	580	1042	1123	1716
1966-67	1646	1698	2820	2788	2892	1647	2191	3728	1229	503	817	1390	1941
1967-68	1603	1768	2537	1600	1552	2101	1331	873	664	538	725	881	1349
1968-69	1224	1292	1444	1688	2880	2270	4952	2572	935	576	800	1384	1823
1969-70	1782	2618	2306	4280	5226	3671	1172	1285	751	527	1036	1149	2133
1970-71	1304	2659	3758	3340	2959	3963	6060	4169	1789	487	908	1394	2728
1971-72	2695	2897	3654	3492	3105	<u>8722</u>	3137	2076	522	465	842	1692	2781
1972-73	1686	2730	3219	3161	2566	2191	1166	847	705	478	594	738	1670
1973-74	1117	1731	3768	4984	3641	4956	5797	2342	578	480	847	1069	2604
1974-75	1575	2671	2976	3027	2994	4097	3632	3017	795	554	887	1425	2300
1975-76	2390	3031	3691	2975	2594	2350	1431	720	551	481	1016	1288	1876
1976-77	1786	2891	1865	1659	1176	702	764	947	697	637	646	806	1214
1977-78	1201	1308	3461	4050	3204	3196	3406	1974	683	551	971	1118	2090
1978-79	1218	1560	1786	1902	1410	2474	1161	1312	719	614	962	1133	1356
1979-80	1172	1207	1187	2704	3225	2898	1425	1363	697	572	1009	1204	1551
1980-81	1207	1221	1312	1247	1305	1819	1411	952	761	616	964	792	1133
1981-82	<u>754</u>	913	2991	3533	5477	6378	5396	2157	630	1348	933	1190	2625
1982-83	1746	2889	3674	2792	4539	6953	4761	3578	2405	722	944	1450	3027
1983-84	2622	4040	<u>6251</u>	3859	3381	5190	4640	3459	1860	575	915	1533	3195
1984-85	3350	<u>4945</u>	3898	2026	1509	2278	4001	1185	1024	623	964	1482	2274
1985-86	1576	2043	2804	2146	5376	7065	2793	1568	673	632	1031	1254	2397
1986-87	1698	1834	2172	1722	2451	2502	1219	1064	708	696	901	1215	1510
1987-88	1246	1230	1377	1558	2154	1828	1158	943	744	583	967	950	1225
1988-89	954	1001	1337	1465	2129	5150	4339	2208	870	660	1054	1180	1860
MEAN	1748	2038	2332	2322	2494	2916	2564	1891	1186	949	1192	1471	1919
MEDIAN	1686	1834	2161	1870	1964	2191	1845	1363	950	847	1048	1392	1670

USGS # 11511450

COPCO NO.1

River: KLAMATH

Drainage Area: 4300 Sq. Mi.

Monthly mean storage change, at site, in cfs.

River Mile: 198.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28													0
1928-29													0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62					2	3	-10	20	5	-21	1	-15	-1
1962-63	16	-18	36	-2	-43	4	20	-7	-2	-21	23	2	1
1963-64	-44	44	19	-68	53	-8	9	-31	43	-93	-157	123	-5
1964-65	141	-24	-52	-11	13	58	-38	-106	18	-36	8	6	-7
1965-66	23	106	-2	-23	48	-31	29	-114	-26	-10	39	-52	-1
1966-67	156	-17	-3	-31	48	4	-1	37	-23	-119	-69	90	6
1967-68	41	58	21	-53	16	-35	51	-63	17	-97	36	-22	-1
1968-69	-13	100	4	-37	10	51	-10	41	13	-37	-168	153	7
1969-70	35	-35	32	-56	79	-15	-11	-11	8	-65	66	-20	2
1970-71	37	-23	6	-25	-9	-8	13	-14	73	-55	23	-70	-7
1971-72	29	16	3	20	19	-75	32	7	11	-89	-43	114	-1
1972-73	-13	36	3	1	36	-5	-47	9	55	-112	-29	127	6
1973-74	-6	-66	32	-44	52	-35	46	13	25	-58	20	-58	-3
1974-75	48	-39	13	2	1	-16	4	55	13	5	-47	-29	-3
1975-76	40	-24	-7	1	12	28	5	-26	-3	-89	122	3	5
1976-77	-14	-32	20	27	-46	10	19	15	14	2	-27	-68	-8
1977-78	19	57	-60	32	5	0	-1	6	21	-30	21	-33	3
1978-79	15	10	-16	16	-32	-13	27	11	21	-42	13	-45	-1
1979-80	2	69	-31	-4	-29	68	-16	-26	33	-24	14	-5	6
1980-81	6	-9	-11	2	0	-4	2	-5	36	-31	-10	8	-2
1981-82	9	-48	13	19	-30	8	21	47	21	-8	-26	-30	-1
1982-83	-23	12	-14	21	-32	-2	33	-21	31	20	22	-3	4
1983-84	-55	-22	-6	24	0	-15	35	15	11	15	5	-15	-1
1984-85	-49	-19	17	24	22	-44	17	41	-8	7	-1	-3	0
1985-86	7	-58	13	-7	-36	24	14	45	-16	-1	3	-35	-1
1986-87	-12	-12	53	-24	-13	0	-28	89	-24	-3	18	-22	4
1987-88	7	-33	-22	47	-30	7	37	-9	-11	20	-22	-15	-8
1988-89	-5	-15	37	6	-8	-20	6	-12	29	3	27	-62	2
MEAN	15	1	4	-5	4	-2	9	0	14	-35	-5	1	0

CPC3S

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 198.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-1693	-1423	-938	
1928-29	-371	262	216	226	261	1174	1376	-65	-277	-1589	-1124	-576	-46
1929-30	39	-71	1265	286	1837	1051	410	-763	-1659	-1064	-395	-324	41
1930-31	-488	212	59	392	994	1016	418	-545	-568	-881	-784	121	-13
1931-32	294	254	829	836	189	2165	1139	633	-669	-1490	-1308	-743	179
1932-33	119	543	431	992	259	916	739	187	-417	-968	-1078	-854	72
1933-34	-75	587	703	823	488	904	-225	-530	-1065	-1685	-1275	-797	-182
1934-35	98	1449	1073	1018	1028	716	481	-44	-1160	-1205	-1467	-1035	73
1935-36	60	-20	455	1890	1255	699	509	163	-528	-1506	-1700	-847	32
1936-37	-597	-410	288	237	659	1662	1850	99	30	-1356	-1545	-965	-11
1937-38	117	936	1566	875	-77	758	1034	-475	-975	-1434	-1353	-901	6
1938-39	73	585	958	654	929	1015	-474	-455	-1576	-1519	-1343	-632	-154
1939-40	148	111	1069	1306	1900	1709	121	-652	-1543	-1773	-1498	-408	36
1940-41	-324	437	751	825	1331	1290	629	257	-442	-1674	-1343	-504	93
1941-42	-457	0	1805	1176	1291	529	585	104	-871	-1687	-1895	-1065	-48
1942-43	-514	1188	1908	1443	-931	390	1785	236	-183	-1023	-1646	-1397	111
1943-44	-280	-55	130	275	869	973	491	-364	116	-1756	-1843	-844	-198
1944-45	-507	494	29	343	2233	1031	264	1374	13	-1852	-2028	-1161	2
1945-46	-263	902	1638	1478	227	-260	1013	709	-528	-1381	-1634	-827	88
1946-47	-286	40	138	368	1332	1257	538	-426	341	-1449	-1308	-787	-32
1947-48	-257	316	356	896	534	1101	1477	1101	-343	-1597	-1283	-849	118
1948-49	-117	188	46	-407	641	2199	1200	522	-908	-1456	-1047	-788	2
1949-50	-449	-452	-603	773	1709	2213	931	174	-375	-1529	-1203	-447	50
1950-51	342	338	649	556	718	285	835	-15	-1583	-1649	-781	-583	-79
1951-52	730	476	1026	-677	271	13	2316	818	-321	-1008	-1317	-995	107
1952-53	-655	-168	270	2374	488	228	474	556	-304	-1503	-1145	-1017	-35
1953-54	-434	734	1007	343	1280	-114	965	-29	-640	-1506	-1234	-551	-27
1954-55	-478	-148	174	623	924	1623	1168	-73	-1383	-1262	-1314	-187	-34
1955-56	346	743	1945	527	-243	-538	1368	631	-230	-896	-963	-629	172
1956-57	-381	124	273	-299	1115	1093	449	280	-1032	-1610	-1192	-511	-150
1957-58	681	292	462	-146	3387	-1171	472	729	15	-729	-1054	-390	188
1958-59	-181	-13	-371	-26	855	379	501	241	-1386	-2030	-877	-615	-302
1959-60	68	155	189	148	1483	1782	1054	316	-1610	-1828	-1177	-482	2
1960-61	189	709	603	-23	2018	1550	59	0	-998	-1919	-908	-587	45
1961-62	-119	-92	548	-101	1900	1864	921	427	-1278	-1885	-952	-899	17
1962-63	1222	67	528	-168	2665	187	711	73	-1196	-1073	-1201	-688	77
1963-64	-176	516	-606	-271	595	1659	1132	407	633	-1383	-1139	-747	45
1964-65	-420	779	4017	-931	-1318	-1494	1826	702	229	-742	-331	-1212	100
1965-66	-1057	-1090	-212	-27	1027	2235	676	-138	-468	-1198	-1439	-531	-193
1966-67	-123	439	424	148	388	1859	1419	327	-81	-1658	-1661	-899	44
1967-68	194	-179	-261	428	2229	582	-530	-525	-1288	-1577	-246	-336	-134
1968-69	-123	1105	996	1145	210	1421	1102	72	61	-1372	-1535	-797	188
1969-70	219	-1002	1072	2153	-154	472	663	259	-635	-1406	-1760	-723	-66
1970-71	257	557	-251	1033	914	1274	-107	709	223	-717	-1143	-238	205
1971-72	-691	-233	-376	619	1188	137	1035	283	-53	-1233	-829	-586	-70
1972-73	3	-118	63	245	606	996	372	-255	-1474	-1818	-968	194	-185
1973-74	434	1655	656	410	111	792	329	432	-106	-747	-784	-520	221
1974-75	-134	-637	-178	-7	728	1143	580	481	221	-581	-810	-692	5
1975-76	-276	-309	-386	56	438	1180	742	7	-607	-1136	566	-429	-14
1976-77	-201	-740	21	220	751	1591	-249	335	-713	-1844	-1148	-494	-210
1977-78	146	1190	666	448	526	933	616	46	-677	-1260	-1212	-164	100
1978-79	-114	125	199	704	1038	643	698	-239	-1752	-1721	-1288	-728	-211
1979-80	142	1242	1252	1446	668	599	759	-192	-618	-1475	-1715	-692	114
1980-81	-144	439	1007	863	1609	564	172	-140	-1615	-1952	-1937	-883	-179
1981-82	796	1879	2334	-383	1736	371	-492	542	460	-1165	-1171	-357	368
1982-83	51	-431	-425	470	1284	458	783	323	-291	-394	-375	-450	76
1983-84	-907	-522	-149	289	869	1208	392	216	-37	-805	-816	88	-19
1984-85	-678	-621	-591	477	1224	1325	475	100	-850	-1563	-849	124	-129
1985-86	318	150	-476	1129	1626	-58	260	327	-606	-1368	-1379	-47	-23
1986-87	51	361	48	815	634	912	72	-471	-866	-608	-1296	-862	-104
1987-88	-211	268	1369	1057	893	871	488	-267	-548	-2001	-1538	-1047	-59
1988-89	-104	1478	775	629	337	1479	717	206	-1095	-1787	-1223	-394	82
MEAN	-89	279	548	541	918	899	681	143	-624	-1387	-1188	-631	3

USGS # 11511450

COPCO NO.1

River: KLAMATH

Drainage Area: 4300 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 198.6

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										611	839	1063	
1928-29	1606	2007	1882	1843	1886	2307	2073	1111	1029	314	794	772	1465
1929-30	1355	<u>1264</u>	2376	1862	2811	2038	1525	859	491	328	649	1114	1381
1930-31	1095	1837	1527	1631	1535	<u>1513</u>	1131	640	485	264	297	881	<u>1049</u>
1931-32	1222	1486	1605	1744	<u>1428</u>	3288	1811	1926	971	152	414	811	1406
1932-33	1084	1612	1689	1797	1610	2098	1705	1569	946	298	403	963	1312
1933-34	1184	1624	1535	2467	1524	1836	<u>911</u>	<u>634</u>	349	78	426	786	1093
1934-35	1285	2037	1747	1884	1788	2042	3403	1567	426	435	499	809	1489
1935-36	1542	1474	1744	3009	2733	2841	2753	2278	1204	473	444	1155	1801
1936-37	1329	1524	1710	1687	1854	2607	2714	1358	1244	370	402	956	1475
1937-38	1603	2168	2841	2194	3259	4975	6766	4811	1367	588	729	1068	2691
1938-39	1579	1881	2130	1894	2139	2626	1492	1187	315	385	659	1244	1458
1939-40	1483	1526	2320	2546	3157	3905	3997	1299	615	515	643	1472	1951
1940-41	1566	1814	2110	2094	2576	2420	2087	1804	1144	566	906	1539	1713
1941-42	1387	1699	3183	2519	3255	2106	2719	2895	1311	540	646	1323	1940
1942-43	1328	2614	3329	3626	3358	5246	6665	4152	2538	1130	1041	1457	3035
1943-44	1898	2187	2179	1756	2149	2329	1954	1348	1734	677	884	1410	1705
1944-45	1170	2400	1910	1720	3508	2246	1550	2821	1495	585	816	1427	1791
1945-46	1520	2246	3089	3111	2399	3837	3383	2596	1552	1025	997	1580	2278
1946-47	1780	2035	1859	1706	2015	1940	1399	1126	1650	630	808	1310	1517
1947-48	1527	1891	1576	1942	1791	2023	2247	2572	2326	787	985	1322	1747
1948-49	1709	2072	2173	<u>1464</u>	2514	3761	2347	2846	909	305	715	1055	1819
1949-50	1574	1819	<u>1436</u>	2267	2940	3792	2586	2292	1375	357	757	1229	1861
1950-51	1986	2698	4145	2822	4531	3876	3563	3844	787	476	1014	1256	2573
1951-52	2369	2327	3187	2359	4245	4599	<u>8853</u>	6271	3057	1771	1420	1890	3520
1952-53	2090	2232	2561	5238	5735	4132	3700	5332	<u>4219</u>	1306	1598	2063	3334
1953-54	2321	3672	3551	3380	4340	5067	5607	3681	2643	1122	1468	2117	3236
1954-55	2001	2564	2438	2270	2206	2719	2639	2175	617	564	725	1519	1867
1955-56	1694	2757	6322	<u>7576</u>	4755	5980	8808	<u>7004</u>	3821	1762	1578	1992	<u>4504</u>
1956-57	3154	3768	3764	2470	3623	7346	4263	4089	1419	898	1123	1935	3154
1957-58	3024	3222	3853	3441	<u>9298</u>	5983	6534	4958	4022	<u>2237</u>	1847	<u>2290</u>	4186
1958-59	2205	3085	2965	2905	3547	2317	2257	1978	737	485	1155	1810	2110
1959-60	1947	1928	1973	1611	3095	3263	2827	2275	470	94	706	1354	1790
1960-61	1730	2250	2887	1636	3552	3295	1855	2175	1172	43	959	1306	1894
1961-62	1896	2417	2903	1928	3285	3319	3447	2306	497	-165	720	975	1951
1962-63	<u>3593</u>	2606	3767	1886	4414	2677	4365	3487	453	437	521	1243	2441
1963-64	1630	2899	2359	2375	2361	3132	3735	1906	1997	97	461	1209	2007
1964-65	1532	2439	<u>8303</u>	7499	6838	4603	3723	2910	1675	761	1432	1353	3576
1965-66	1790	3156	2650	2122	2432	3657	3035	1380	983	323	499	1186	1929
1966-67	1792	2137	3244	2936	3280	3506	3673	4458	2030	-213	18	1116	2325
1967-68	2002	1589	2276	2028	3780	2683	1385	1124	333	-29	1153	1176	1619
1968-69	1325	2398	2440	2833	3090	3691	6264	3387	1822	185	166	1247	2393
1969-70	2138	1616	3378	6433	5072	4143	2090	2233	1054	105	149	1024	2443
1970-71	1834	3215	3508	4374	3873	5237	6044	5360	2759	736	686	1842	3282
1971-72	2178	2664	3278	4111	4293	<u>8859</u>	4317	3131	1410	228	876	1761	3092
1972-73	1856	2611	3282	3406	3171	3188	1919	1495	214	-329	529	1527	1899
1973-74	1661	3386	4424	5393	3751	5748	6273	3629	1468	717	982	1311	3226
1974-75	1756	2035	2798	3020	3721	5240	4291	4250	1997	905	983	1443	2698
1975-76	2335	2722	3305	3031	3032	3530	2444	1684	882	335	<u>2077</u>	1505	2239
1976-77	1832	2151	1887	1879	1926	2293	1125	1798	852	-242	333	886	1391
1977-78	1405	2499	4127	4498	3729	4129	4122	2510	944	243	610	1503	2520
1978-79	1302	1685	1985	2606	2448	3122	2198	1805	<u>-57</u>	-132	438	915	1522
1979-80	1595	2449	2440	4150	3893	3497	2454	1926	850	38	150	1164	2044
1980-81	1312	1660	2319	2110	2914	2383	1843	1467	25	-366	<u>-110</u>	<u>510</u>	1330
1981-82	1648	2792	5324	3150	7212	6749	4960	3424	1977	1026	643	1416	3335
1982-83	1939	2458	3249	3262	5822	7412	5646	4404	2995	1269	1351	1630	3436
1983-84	1894	3517	6102	4148	4250	6398	5219	4360	2689	759	1272	2145	3561
1984-85	2872	<u>4324</u>	3307	2503	2733	3604	4864	2156	1090	55	958	2076	2538
1985-86	2095	2194	2329	3274	7002	7007	3416	2591	1009	244	559	1768	2764
1986-87	1852	2195	2220	2537	3085	3414	1755	1452	711	902	475	1017	1795
1987-88	1257	1498	2746	2615	3047	2698	2058	1327	966	<u>-407</u>	311	636	1558
1988-89	<u>1083</u>	2479	2112	2095	2466	6629	5296	3074	673	-131	711	1412	2322
MEAN	1766	2317	2880	2863	3411	3815	3444	2661	1356	476	779	1343	2252
MEDIAN	1694	2232	2561	2503	3157	3497	2827	2278	1090	410	717	1310	1951

CPC3A

USGS # 11516515

IRON GATE

River: KLAMATH

Drainage Area:

4630 Sq. Mi.

Monthly mean historical streamflow in cfs.

River Mile:

190.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										1765	1854	1880	
1928-29	2035	1796	1714	1665	1673	1166	712	596	807	1308	1425	1124	1335
1929-30	1355	1374	1143	1622	1003	1016	1098	1171	1415	745	552	1298	1149
1930-31	1629	1467	1512	1276	<u>557</u>	<u>511</u>	<u>412</u>	<u>342</u>	<u>329</u>	<u>332</u>	<u>419</u>	<u>569</u>	<u>782</u>
1931-32	955	1269	798	935	1274	1156	684	806	1070	896	1153	1214	1016
1932-33	994	1101	1295	<u>829</u>	1390	1217	885	1155	585	539	859	1523	1028
1933-34	1261	1068	856	1692	1067	753	768	623	833	1024	1078	1268	1024
1934-35	1222	<u>606</u>	<u>694</u>	892	782	1366	3008	1233	812	977	1350	1497	1204
1935-36	1520	1538	1326	1152	1521	2204	2301	1661	1199	1162	1531	1725	1569
1936-37	1982	1991	1464	1492	1230	973	854	739	814	883	1268	1583	1273
1937-38	1526	1268	1312	1358	3435	4341	5893	4985	1637	1229	1478	1589	2495
1938-39	1529	1335	1206	1277	1246	1658	1584	1085	1146	1112	1297	1580	1338
1939-40	1357	1456	1288	1276	1294	2261	3986	1399	1353	1491	1536	1688	1696
1940-41	1945	1417	1398	1306	1282	1164	1148	1078	1023	1498	1776	1822	1406
1941-42	1898	1748	1418	1383	2022	1624	1945	2318	1496	1401	1870	2066	1763
1942-43	1894	1467	1463	2247	4415	4998	5019	3610	2176	1290	1937	2524	2739
1943-44	2159	2308	2109	1525	1317	1396	1345	1219	1192	1516	1905	1858	1656
1944-45	1664	1962	1935	1417	1312	1251	1260	1096	1045	1547	2047	2209	1564
1945-46	1763	1383	1494	1680	2236	4217	2330	1339	1350	1478	1872	2036	1931
1946-47	2046	2053	1771	1377	703	703	621	777	968	1145	1472	1723	1284
1947-48	1744	1621	1256	1076	1294	949	765	1242	2194	1527	1666	1855	1431
1948-49	1880	1939	2190	1925	1928	1608	1075	1821	1019	894	1098	1392	1563
1949-50	2082	2337	2099	1539	1267	1625	1613	1518	977	937	1238	1306	1547
1950-51	1693	2430	3599	2332	3924	3696	2391	3443	1429	1177	1113	1301	2370
1951-52	1669	1906	2224	3124	4090	4720	6660	4927	2750	1949	1984	2394	3192
1952-53	2701	2470	2358	2948	5401	4018	3156	4548	<u>3982</u>	1858	1992	<u>2673</u>	3158
1953-54	2737	3024	2619	3126	3149	5333	4656	2896	2605	1621	1963	2215	2993
1954-55	2475	2792	2331	1695	1320	1128	1343	1563	1029	932	1158	1164	1579
1955-56	1285	2073	4505	7256	5144	6709	<u>7554</u>	<u>5954</u>	3321	1754	1789	2104	<u>4119</u>
1956-57	<u>3527</u>	3751	3593	2851	2582	6437	3888	3350	1520	1587	1589	1923	3057
1957-58	2410	3015	3491	3692	6085	7364	6153	3601	3509	<u>2177</u>	<u>2160</u>	2260	3809
1958-59	2370	3189	3433	3017	2771	1995	1182	1072	1108	1516	1270	2003	2074
1959-60	1824	1826	1837	1506	1659	1524	1624	1425	1014	861	1099	1273	1455
1960-61	1461	1716	2524	1773	1906	2005	1756	1575	1387	983	1094	1382	1629
1961-62	1907	2253	1985	1907	1769	1676	2634	1386	929	766	968	1309	1621
1962-63	2511	2852	3661	2103	2189	2548	3841	2937	857	743	1058	1574	2240
1963-64	1761	2425	2908	2936	1885	1631	2780	1061	1005	857	1073	1369	1806
1964-65	1774	1876	6653	<u>9489</u>	<u>9150</u>	6306	2232	1828	866	738	1208	2052	3657
1965-66	2798	4188	3040	2554	1546	1776	2482	1035	712	729	1052	1313	1936
1966-67	1574	1796	3069	3099	3212	2045	2458	4230	1546	727	1016	1311	2169
1967-68	1654	1805	2725	1870	1928	2459	1306	1018	708	734	747	1048	1501
1968-69	1382	1356	1498	2287	3204	2640	5412	3009	1121	734	1023	1332	2071
1969-70	1745	2773	2615	5327	5656	4328	1412	1459	868	714	1020	1310	2418
1970-71	1379	2953	4122	4016	3447	4872	6922	4973	2125	778	1014	1541	3174
1971-72	2753	3152	3777	4100	3640	<u>10780</u>	3641	2447	787	719	1029	1640	3213
1972-73	1791	2827	3389	3292	2659	2394	1418	1034	746	706	701	725	1804
1973-74	1333	2221	4076	6177	4065	5672	6874	3037	886	737	1030	1327	3115
1974-75	1688	2708	3002	3085	3361	4651	4293	3890	1313	778	1098	1612	2619
1975-76	2432	3156	3805	3132	2785	2567	1812	1138	733	718	1054	1428	2063
1976-77	1827	2986	1894	1656	1336	724	761	1015	742	719	718	1014	1281
1977-78	1322	1390	3903	4348	3435	3567	3576	2130	772	732	1041	1326	2292
1978-79	1329	1623	1824	2027	1644	2596	1391	1575	731	733	1022	1304	1484
1979-80	1308	1337	1435	3395	3618	3225	1723	1626	748	746	1051	1348	1792
1980-81	1342	1343	1465	1364	1541	1817	1546	1033	751	736	1033	916	1239
1981-82	<u>852</u>	1306	3836	3810	6777	6923	5971	2445	804	1429	1039	1345	3022
1982-83	1874	3021	4062	3075	5123	7681	5353	4168	2591	903	1014	1567	3357
1983-84	2746	4167	<u>6735</u>	4013	3885	5774	5192	3770	1973	761	1030	1674	3477
1984-85	3353	<u>5254</u>	3976	2142	1764	2609	4445	1367	1095	722	1011	1645	2447
1985-86	1675	2129	2859	2365	6332	7497	2985	1667	751	728	1015	1405	2595
1986-87	1801	1844	2143	1827	2579	2646	1453	1013	740	802	935	1332	1588
1987-88	1341	1331	1517	1682	2217	1926	1165	973	829	633	974	1038	1299
1988-89	1037	1166	1324	1605	2125	5692	4676	2467	921	740	1035	1337	2009
MEAN	1818	2130	2484	2507	2707	3149	2777	2064	1274	1043	1256	1551	2058
MEDIAN	1745	1906	2143	1925	2125	2394	2232	1518	1019	888	1096	1463	1804

IRG3H

USGS # 11516515 **IRON GATE**
 Monthly mean storage change, at site, in cfs.

River: KLAMATH

Drainage Area: 4630 Sq. Mi.
 River Mile: 190.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28													
1928-29													0
1929-30													0
1930-31													0
1931-32													0
1932-33													0
1933-34													0
1934-35													0
1935-36													0
1936-37													0
1937-38													0
1938-39													0
1939-40													0
1940-41													0
1941-42													0
1942-43													0
1943-44													0
1944-45													0
1945-46													0
1946-47													0
1947-48													0
1948-49													0
1949-50													0
1950-51													0
1951-52													0
1952-53													0
1953-54													0
1954-55													0
1955-56													0
1956-57													0
1957-58													0
1958-59													0
1959-60													0
1960-61													0
1961-62					-18	-5	-6	9	-28	43	-16	2	-1
1962-63	32	5	-3	0	-2	-2	4	-40	-14	32	-30	-24	-4
1963-64	-15	91	1	-3	-98	99	-31	21	-28	9	-17	7	4
1964-65	-24	20	62	3	-8	-5	-133	0	-18	-33	5	9	-10
1965-66	75	81	-6	-32	-38	63	-38	-15	37	-40	28	11	14
1966-67	-54	34	41	4	-5	-56	64	3	-48	4	-43	36	-5
1967-68	16	28	-66	24	27	-82	71	17	-32	-4	-19	-27	-6
1968-69	26	-75	119	25	0	9	-2	-6	-63	18	-23	-4	2
1969-70	65	0	2	22	-23	-45	6	34	-30	-26	19	-14	1
1970-71	-27	84	-1	2	-2	18	-18	8	-45	-41	8	33	3
1971-72	35	2	0	0	29	-16	-21	-19	-26	0	-50	41	-2
1972-73	55	6	1	-1	-2	-61	15	14	-3	4	-7	7	3
1973-74	-9	46	5	3	-6	26	-26	-23	-35	21	-16	-35	-4
1974-75	-18	102	1	0	4	6	-3	-14	-27	-2	-1	11	5
1975-76	27	4	-4	0	0	-2	-20	15	-33	9	-17	-2	-2
1976-77	47	1	-43	11	-20	-7	28	-30	25	-3	5	-31	-2
1977-78	23	-1	44	-1	-3	4	-1	-26	-6	-26	7	-4	2
1978-79	14	15	26	-2	-39	29	-35	-12	20	-2	7	-19	0
1979-80	6	11	6	26	7	-39	28	-40	39	-43	19	-15	-2
1980-81	1	-2	0	3	-11	51	-42	-5	21	-17	-12	-8	0
1981-82	24	-6	59	-14	27	-17	-7	-16	0	-16	5	-4	4
1982-83	28	5	-3	0	19	7	-9	-8	-10	-34	17	-1	-1
1983-84	22	9	5	-15	2	13	-9	-11	4	-27	22	-25	0
1984-85	37	2	-8	-17	1	22	-9	-19	5	-19	14	-35	-2
1985-86	5	54	-20	20	24	-16	-32	-11	16	-3	-1	-8	-1
1986-87	-10	41	-11	10	-1	2	-27	-5	17	-10	-6	5	1
1987-88	-4	10	-4	-10	37	-22	-9	30	-12	-18	20	-23	1
1988-89	12	-14	0	8	15	40	-14	-13	-16	-23	7	-4	-2
MEAN	14	21	8	2	-3	0	-10	-6	-10	-9	-3	-4	0

IRG3S

USGS # 11516515

IRON GATE

River: KLAMATH

Drainage Area: 4630 Sq. Mi.

Summation of monthly storage changes, at site and upstream, in cfs.

River Mile: 190.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										-1693	-1423	-938	
1928-29	-371	262	216	226	261	1174	1376	-65	-277	-1589	-1124	-576	-46
1929-30	39	-71	1265	286	1837	1051	410	-763	-1659	-1064	-395	-324	41
1930-31	-488	212	59	392	994	1016	418	-545	-568	-881	-784	121	-13
1931-32	294	254	829	836	189	2165	1139	633	-669	-1490	-1308	-743	179
1932-33	119	543	431	992	259	916	739	187	-417	-968	-1078	-854	72
1933-34	-75	587	703	823	488	904	-225	-530	-1065	-1685	-1275	-797	-182
1934-35	98	1449	1073	1018	1028	716	481	-44	-1160	-1205	-1467	-1035	73
1935-36	60	-20	455	1890	1255	699	509	163	-528	-1506	-1700	-847	32
1936-37	-597	-410	288	237	659	1662	1850	99	30	-1356	-1545	-965	-11
1937-38	117	936	1566	875	-77	758	1034	-475	-975	-1434	-1353	-901	6
1938-39	73	585	958	654	929	1015	-474	-455	-1576	-1519	-1343	-632	-154
1939-40	148	111	1069	1306	1900	1709	121	-652	-1543	-1773	-1498	-408	36
1940-41	-324	437	751	825	1331	1290	629	257	-442	-1674	-1343	-504	93
1941-42	-457	0	1805	1176	1291	529	585	104	-871	-1687	-1895	-1065	-48
1942-43	-514	1188	1908	1443	-931	390	1785	236	-183	-1023	-1646	-1397	111
1943-44	-280	-55	130	275	869	973	491	-364	116	-1756	-1843	-844	-198
1944-45	-507	494	29	343	2233	1031	264	1374	13	-1852	-2028	-1161	2
1945-46	-263	902	1638	1478	227	-260	1013	709	-528	-1381	-1634	-827	88
1946-47	-286	40	138	368	1332	1257	538	-426	341	-1449	-1308	-787	-32
1947-48	-257	316	356	896	534	1101	1477	1101	-343	-1597	-1283	-849	118
1948-49	-117	188	46	-407	641	2199	1200	522	-908	-1456	-1047	-788	2
1949-50	-449	-452	-603	773	1709	2213	931	174	-375	-1529	-1203	-447	50
1950-51	342	338	649	556	718	285	835	-15	-1583	-1649	-781	-583	-79
1951-52	730	476	1026	-677	271	13	2316	818	-321	-1008	-1317	-995	107
1952-53	-655	-168	270	2374	488	228	474	556	-304	-1503	-1145	-1017	-35
1953-54	-434	734	1007	343	1280	-114	965	-29	-640	-1506	-1234	-551	-27
1954-55	-478	-148	174	623	924	1623	1168	-73	-1383	-1262	-1314	-187	-34
1955-56	346	743	1945	527	-243	-538	1368	631	-230	-896	-963	-629	172
1956-57	-381	124	273	-299	1115	1093	449	280	-1032	-1610	-1192	-511	-150
1957-58	681	292	462	-146	3387	-1171	472	729	15	-729	-1054	-390	188
1958-59	-181	-13	-371	-26	855	379	501	241	-1386	-2030	-877	-615	-302
1959-60	68	155	189	148	1483	1782	1054	316	-1610	-1828	-1177	-482	2
1960-61	189	709	603	-23	2018	1550	59	0	-998	-1919	-908	-587	45
1961-62	-119	-92	548	-101	1882	1859	915	437	-1307	-1842	-967	-897	15
1962-63	1253	72	525	-168	2663	186	715	33	-1211	-1041	-1232	-712	73
1963-64	-192	607	-605	-274	497	1758	1101	428	604	-1374	-1157	-741	48
1964-65	-444	799	4079	-928	-1326	-1499	1692	703	211	-775	-326	-1203	90
1965-66	-981	-1008	-218	-59	988	2298	638	-153	-431	-1238	-1411	-520	-183
1966-67	-177	473	465	152	383	1803	1483	330	-130	-1653	-1704	-863	42
1967-68	211	-151	-327	451	2255	500	-459	-508	-1320	-1580	-265	-363	-138
1968-69	-97	1031	1116	1170	210	1429	1100	66	-2	-1354	-1559	-801	191
1969-70	284	-1002	1074	2175	-178	427	668	293	-664	-1432	-1741	-737	-64
1970-71	230	641	-252	1035	912	1291	-125	717	178	-758	-1135	-204	206
1971-72	-656	-231	-376	620	1217	120	1014	264	-79	-1233	-879	-545	-72
1972-73	59	-112	64	244	603	935	387	-241	-1477	-1813	-975	201	-183
1973-74	425	1702	661	412	105	817	304	409	-142	-726	-800	-555	217
1974-75	-152	-535	-178	-7	731	1148	577	466	194	-583	-811	-681	10
1975-76	-249	-305	-390	56	438	1178	723	22	-640	-1127	549	-431	-16
1976-77	-154	-739	-21	231	730	1585	-222	305	-688	-1847	-1143	-525	-211
1977-78	169	1189	710	446	522	938	615	21	-683	-1286	-1206	-168	101
1978-79	-100	140	224	702	999	672	663	-251	-1732	-1723	-1281	-747	-210
1979-80	148	1253	1258	1472	675	560	787	-232	-578	-1518	-1696	-707	115
1980-81	-143	437	1007	866	1598	615	129	-145	-1594	-1969	-1950	-890	-181
1981-82	820	1873	2392	-397	1762	354	-498	525	460	-1181	-1166	-361	371
1982-83	80	-426	-428	470	1303	465	774	315	-301	-428	-357	-452	76
1983-84	-885	-513	-144	274	871	1221	383	205	-33	-832	-793	62	-20
1984-85	-641	-619	-599	460	1225	1348	466	82	-846	-1581	-835	89	-131
1985-86	323	204	-496	1148	1650	-74	228	317	-590	-1371	-1380	-55	-21
1986-87	40	402	37	825	633	914	45	-476	-850	-618	-1301	-857	-104
1987-88	-215	278	1364	1047	931	849	479	-238	-560	-2020	-1518	-1070	-60
1988-89	-92	1465	776	637	352	1520	702	193	-1110	-1810	-1216	-398	82
MEAN	-83	288	551	542	916	899	676	141	-629	-1391	-1189	-633	2

IRG3SS

USGS # 11516515

IRON GATE

River: KLAMATH

Drainage Area: 4630 Sq. Mi.

Monthly mean streamflow, adjusted for storage, in cfs.

River Mile: 190.7

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	AVE.
1927-28										661	892	1116	
1928-29	1664	2058	1930	1891	1934	2340	2093	1128	1052	351	834	804	1503
1929-30	1394	<u>1303</u>	2408	1908	2840	2067	1556	893	531	350	665	1151	1414
1930-31	1141	1679	1570	1668	1551	<u>1528</u>	1143	<u>650</u>	494	273	309	897	<u>1072</u>
1931-32	1249	1522	1627	1771	<u>1464</u>	3321	1831	1949	1001	178	447	845	1435
1932-33	<u>1113</u>	1844	1728	1821	1649	2132	1730	1602	963	313	428	1007	1342
1933-34	1200	1654	1559	2515	1555	1657	<u>933</u>	651	373	105	457	823	1122
1934-35	1320	2054	1787	1910	1811	2081	3489	1603	450	463	538	852	1524
1935-36	1585	1517	1782	3042	2776	2903	2818	2325	1238	506	487	1204	1845
1936-37	1385	1581	1751	1730	1889	2635	2739	1379	1268	395	438	1001	1511
1937-38	1647	2204	2878	2233	3357	5099	6934	4953	1414	623	771	1113	2762
1938-39	1622	1919	2164	1931	2175	2673	1537	1218	347	417	696	1289	1496
1939-40	1522	1567	2357	2582	3194	3970	4111	1339	654	557	687	1520	1999
1940-41	1622	1854	2150	2131	2613	2453	2120	1835	1173	608	957	1591	1753
1941-42	1441	1748	3223	2559	3313	2152	2774	2761	1354	580	700	1382	1990
1942-43	1382	2655	3371	3690	3484	5388	6808	4255	2600	1167	1096	1529	3113
1943-44	1960	2252	2239	1800	2187	2369	1992	1383	1768	720	938	1463	1752
1944-45	1218	2456	1965	1760	3545	2282	1586	2853	1525	629	874	1490	1835
1945-46	1570	2285	3131	3159	2463	3957	3450	2634	1591	1067	1051	1638	2333
1946-47	1839	2093	1909	1745	2035	1980	1417	1148	1677	663	850	1359	1553
1947-48	1576	1937	1612	1972	1828	2050	2268	2607	2389	830	1032	1374	1787
1948-49	1763	2127	2235	<u>1519</u>	2569	3807	2378	2898	938	330	746	1094	1864
1949-50	1633	1885	<u>1495</u>	2311	2976	3838	2632	2335	1402	384	792	1266	1905
1950-51	2034	2767	4248	2888	4643	3981	3631	3942	828	510	1045	1293	2640
1951-52	2417	2382	3251	2448	4361	4733	<u>9042</u>	6411	3135	1826	1477	1958	3610
1952-53	2167	2302	2628	5322	5889	4246	3790	5461	<u>4332</u>	1358	1654	2140	3424
1953-54	2399	3758	3625	3469	4430	5219	5740	3764	<u>2718</u>	1168	1524	2180	3321
1954-55	2072	2644	2505	2318	2244	2751	2677	2220	647	591	758	1552	1912
1955-56	1731	2816	6450	7783	4901	6171	9023	<u>7174</u>	3916	1812	1629	2052	<u>4622</u>
1956-57	3254	3875	3866	2551	3696	7530	4374	4184	1462	943	1168	1990	3241
1957-58	3093	3308	3953	3546	<u>9472</u>	6193	6709	5061	4122	<u>2293</u>	1909	<u>2354</u>	4294
1958-59	2272	3176	3062	2991	3626	2374	2290	2008	768	528	1191	1867	2169
1959-60	1999	1980	2025	1654	3142	3306	2873	2315	499	119	738	1391	1831
1960-61	1801	2425	3128	1751	3925	3555	2106	2360	1247	109	1011	1375	2054
1961-62	1949	2160	2533	1806	3651	3535	3791	2499	617	-56	808	1038	2016
1962-63	<u>3828</u>	2924	4186	1935	4852	2734	4631	3525	530	561	562	1332	2618
1963-64	1795	3032	2303	2662	2382	3389	4037	2244	2130	376	764	1241	2191
1964-65	1500	2675	<u>10730</u>	<u>8561</u>	7824	4807	4138	3320	1832	936	1598	1459	4102
1965-66	1975	3179	2822	2496	2534	4074	3634	1777	1126	432	537	1386	2159
1966-67	1667	2269	3534	3252	3595	3848	4004	4963	2298	15	175	1073	2551
1967-68	2069	1655	2397	2322	4183	2959	1430	1286	345	163	1156	1315	1767
1968-69	1509	2387	2613	3457	3414	4069	6722	3819	1945	361	366	1191	2644
1969-70	2167	1771	3689	7502	5478	4755	2336	2442	1142	266	151	1171	2729
1970-71	1882	3594	3870	5051	4359	6163	6888	6171	3050	986	800	2022	3730
1971-72	2271	2921	3401	4719	4857	<u>10900</u>	4799	3483	1649	482	1013	1750	3521
1972-73	2016	2715	3453	3536	3263	3329	2185	1695	252	-97	629	1522	2036
1973-74	1868	3923	4737	6590	4170	6489	7325	4301	1741	996	1149	1534	3733
1974-75	1851	2173	2824	3078	4093	5799	4950	5109	2488	1127	1192	1641	3021
1975-76	2403	2851	3415	3188	3223	3744	2805	2118	1031	580	<u>2092</u>	1643	2424
1976-77	1920	2247	1873	1887	2067	2309	1149	1835	921	-162	410	1063	1456
1977-78	1548	2579	4613	4795	3957	4505	4292	2641	1027	398	687	1708	2723
1978-79	1427	1763	2048	2729	2842	3273	2393	2056	<u>-24</u>	-15	505	1067	1651
1979-80	1737	2590	2693	4867	4293	3785	2780	2150	940	169	211	1294	2286
1980-81	1449	1780	2473	2230	3140	2432	1936	1544	36	-262	<u>-53</u>	<u>627</u>	1434
1981-82	1770	3179	6229	3413	8539	7277	5528	3696	2151	1092	753	1568	3734
1982-83	2095	2595	3633	3544	6425	8146	6230	4985	3170	1416	1438	1745	3767
1983-84	2039	3654	6591	4286	4756	6995	5762	4660	2806	918	1409	2260	3842
1984-85	2912	<u>4635</u>	3378	2602	2988	3957	5299	2319	1166	136	1018	2204	2709
1985-86	2198	2333	2363	3513	7981	7423	3576	2679	1103	337	542	1910	2964
1986-87	1946	2246	2180	2651	3213	3560	1962	1396	759	999	504	1139	1872
1987-88	1348	1609	2881	2728	3147	2775	2055	1388	1038	<u>-376</u>	339	702	1631
1988-89	1178	2630	2099	2242	2476	7211	5617	3319	708	-75	698	1565	2471
MEAN	1843	2418	3035	3049	3624	4049	3653	2831	1440	567	843	1421	2390
MEDIAN	1770	2285	2628	2582	3263	3744	2873	2360	1166	494	767	1378	2159

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