

WATER USE IN WISCONSIN, 1979

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CONVERSION TABLE

The inch-pound units used in this report may be converted to International System of Units (SI) by the following conversion factors:

<u>Multiply</u>	<u>By</u>	<u>To obtain</u>
gallon (gal)	3.785	liter (L)
gallon per minute (gal/min)	6.31×10^{-5}	cubic meter per second (m^3/s)
foot (ft)	0.305	meter (m)
cubic foot per second (ft^3/s)	0.0283	cubic meter per second (m^3/s)

WATER USE IN WISCONSIN, 1979

By C. L. Lawrence and B. R. Ellefson

ABSTRACT

This report summarizes the uses of water in Wisconsin for 1979, except aesthetics, navigation, and recreational use.

The greatest single use of water, an instream use, was for hydroelectric power production. About 26 trillion gallons, or 93 percent, was used for this purpose. Of the other 7 percent where water is pumped to a different location, 81 percent (6 percent of all water use) was cooling water for thermoelectric powerplants.

Withdrawals of surface water and ground water by public and private systems are for residential, industrial, commercial, irrigation, and stock uses.

INTRODUCTION

Wisconsin, by some comparisons, is considered a water-rich State because water is available for almost all present uses. However, as the demands increase, some of the State's water resources will be stressed. Information about the use of water is necessary in managing water.

Water-use information is essential for two major purposes: (1) for evaluating the adequacy of current water sources and (2) for projections of future water needs.

This report tabulates all withdrawals in Wisconsin involving pumping or diverting ground water or surface water from its natural flow pattern. Some typical uses not considered are (1) navigation, (2) recreation, (3) aesthetic considerations, and (4) other purposes than energy production on dammed streams.

PURPOSE AND SCOPE

A major undocumented factor in many water-resources investigations is the quantity of water actually used for various purposes. The purpose of this report is to document water use in Wisconsin for 1979.

Although water-use reports have been prepared previously, this report is based on a considerable number of new data sources, different methods of estimating water use, and a classification, by county, of all withdrawals except for thermoelectric power.

The water-use figures in this report apply only to Wisconsin. Several streams separate Wisconsin from other States. Water for hydroelectric power production along boundary streams is listed only where the generating plant is in Wisconsin. This also is the case for thermoelectric powerplants.

All water-use figures include only fresh water; saline or brackish water use, if any, is not significant.

ACKNOWLEDGEMENTS

Most of the data in this report were extracted from the files of various State agencies, as mentioned under "Methods". Partial support for the project came from the Department of Natural Resources in the form of personnel service, advice, and use of their facilities. In particular, we acknowledge the help of Tom Calabresa and Robert Devaul of the Department of Natural Resources, who supplied the information on noncommunity public systems and on rural domestic and stock ground-water use. They also supplied much information about non-municipal community systems and on private industrial use. The Fox Valley Water Quality Planning Agency provided helpful information on industrial water use in Brown, Outagamie, and Winnebago Counties (fig. 1).

The report was prepared as part of a cooperative program between the Wisconsin Department of Natural Resources and the U.S. Geological Survey. Data collection functions under this program are an element in a National Water Use Data System.

DEFINITION OF TERMS

Commercial use--Water used for commercial purposes, such as use by motels, retail outlets, restaurants, resorts, and apartment buildings.

Community system--A public water system which has at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents.

Ft³/s--Cubic feet per second.

Gal/d--Gallons per day.

Gal/min--Gallons per minute.

Industrial use--Water used by industries, such as papermills, canneries, and manufacturing plants.

Irrigation use--Water applied to crops, golf courses, parks, or commercial grounds, but not domestic lawns.

Kwh--Kilowatt hours.

Municipal system--A community water system owned and operated by an incorporated city or village.

Mwh--Megawatt hours.

Noncommunity system--A public water system having less than 15 service connections used by year-round residents, or serving less than 25 year-round residents.

Nonmunicipal system--A water system not owned or operated by an incorporated city or village.

Other community system--A nonmunicipal water system operated by a town, sanitary district, subdivision, or mobile home park.

Other use--Water uses not specifically categorized, such as use in parks, schools, and public buildings, fire control, water-main flushing and leakage.

Private system--A water system belonging to a particular person or group of persons.

Public system--A water system belonging to, or operated by, the people as a whole or the community at large.

Residential use--Water used for personal services in housing units of not more than two families.

Stock use--Water consumed by domestic farm animals.

BACKGROUND

Much water-use information for the State has been collected. By State statute, many users are required to report quantities of water withdrawn from ground-water or surface-water bodies and the quantities of surface water returned. Much of these data are in files of State agencies and, although available to the public, have not previously been assembled and published in a readily accessible form. Agencies that provided access to these data for this report include:

1. Wisconsin Department of Natural Resources
2. Wisconsin Public Service Commission
3. Fox Valley Water Quality Planning Agency.

A brief description of the known literature related to water use in Wisconsin follows.

A thesis written by Harvey E. Wirth (1959) summarizes estimated water use in 1957 and discusses legal aspects of water-use conflicts.

A report, "The Water Use Information Gap--The Wisconsin Experience" (Daniel and Mara, 1975), discusses the needs and uses of water-use information. Suggestions for filling gaps in data needs are given.

Each 5 years the U.S. Geological Survey has published reports summarizing estimated use of water by State and region. The most recent available (Murray and Reeves, 1977) provides estimates for 1975. The data given are useful at the national but not State level.

A publication of the Department of Natural Resources "State of Wisconsin Public Water Supply Data 1970" provides helpful statistical data about municipal wells in existence at the time of its publication.

The Public Service Commission of Wisconsin (PSC) publishes an annual report giving statistical data on power generation that can be related to water use (Wisconsin PSC, 1980).

1979 WATER USE

Water-use data are summarized in five tables. Tables 1 and 2 summarize water-use data for individual counties. Tables 3, 4, and 5 categorize data in a statewide format. The data were obtained and tabulated as described in the following five sections.

MUNICIPAL WATER USE

Municipal water use is tabulated by county (fig. 1). The residential, industrial, and commercial categories of water deliveries by municipal systems were taken from files of the Wisconsin Public Service Commission (PSC). All incorporated cities and villages that have centralized water systems are listed. Two towns, Allouez in Brown County and Fitchburg in Dane County, are included because they are extensively urbanized. Cities, villages, and towns are not shown in figure 1. Figures of total water use for the municipal systems are from files of the Public Water Supply Section of the Wisconsin Department of Natural Resources (DNR) and are sums of total pumpage into the system from all sources. The column labeled "other" is the difference between the total pumpage as reported to the DNR and the sum of residential, industrial, and commercial deliveries reported to the PSC. It includes water used for public buildings, firefighting, parks, and transmission losses. Population figures are 1979 estimates supplied by the Wisconsin Department of Administration (1979).



Figure 1. Location of counties in Wisconsin.

TOTAL WITHDRAWALS, EXCLUDING HYDROELECTRIC
AND THERMOELECTRIC USE

Table 2 includes all uses except that for hydroelectric and thermoelectric power generation. The data are listed by county (fig. 1) and come from several sources.

Under public community systems, figures for municipal water use have been taken from table 1.

The "other" category includes all nonmunicipal community systems. Most such systems serve townships, sanitary districts or subdivisions, and mobile home parks. The figures are from reports of individual systems to the Wisconsin DNR and PSC. Where individual reports were not available, community use was estimated from population figures applicable to water plants as compiled by the DNR and an average consumption figure of 50 gal/d per person. This figure is based on observations by the Public Water Supply Section of the Wisconsin DNR. It was assumed that all water use by nonreporting systems was residential.

Noncommunity public systems include, but are not limited to, camps, schools, motels, resorts, churches, and parks. They are commonly small users, but are numerous. Typically, they draw water from low-capacity (less than 70 gal/min) wells. Calabresa and Devaul (1981, written commun.) calculated total ground-water use based on a DNR inventory of noncommunity public systems, full operational population, and a use factor to reflect limited seasonal use. A use factor of 13 gal/d per person was used together with the seasonal use factor, when appropriate. The average per day per person use factor was obtained by analyzing use in five counties having populations between 10,000 and 50,000, estimating per person consumption for each type of system (motel and resort).

Private water systems are those that are self-supplied and that do not normally provide service to the public. Examples are rural homes, farms, and businesses. To illustrate further, a restaurant pumping its own water is considered to be a commercial use from a noncommunity public system, whereas a paper mill is considered to be an industrial use from a private system, provided it supplies its own water.

Calabresa and Devaul (1981, written commun.) provided figures for stock and private residential ground-water use. The residential use was computed by multiplying the average consumption of 50 gal/d per person times the county population not already considered in community systems. The stock use was computed by multiplying numbers of farm animals (Wisconsin Agriculture Reporting Service, 1979) in counties by standard consumptive values for each type of farm animal; for example, 20 gal/d for a dairy cow (Todd, 1970).

The industrial, commercial, irrigation, and other categories for private systems were compiled from a 1979 DNR summary of annual pumpage of all private high-capacity wells in the State. Pumpage for 1979 for each category was computed based on numbers of wells, and pumpages for those wells with reported pumpage.

Industrial use of ground water was derived from several sources; the reported high-capacity (greater than 70 gal/min) well pumpage, available low-capacity well pumpage, computed high- and low-capacity well pumpage based on equipment-design criteria and raw materials processed, waste-water discharge permits and waste-discharge volumes from sewer rental lists.

Commercial use of ground water is the sum of reported high-capacity well pumpage, and estimates of unreported pumpage. In estimating unreported pumpage, it was assumed that 9 of 10 high-capacity wells were pumped in 1979 and at 85 percent of their permitted pumpage. This is equivalent to 6 days of operation per week. Most wells used commercially fall into the public noncommunity system category.

Irrigation use of ground water is the sum of the reported pumpage and estimates of unreported pumpage. Estimates for 95 percent of wells with unreported pumpage were made by applying the average rate and time of operation of wells with reported pumpage.

Private-system water use in the "other" category was taken from the previously mentioned DNR summary of annual pumpage of privately owned high-capacity wells. To this was added the flow at State fish hatcheries, which generally use water from flowing wells (Calabresa and Devaul, 1981, written commun.).

Except for municipal systems, all water use discussed thus far for table 2 has been for ground water. Private systems do make some use of surface water. In Wisconsin, surface water is used by industry, by irrigators, and for stock.

Surface-water use by industry is principally by pulp and paper companies. These companies are required to have discharge permits and to report discharges to the Wisconsin DNR. Mills normally measure quantities pumped and assume that it is all discharged to the receiving stream. Tabulations were made from DNR files of average annual flow and numbers of days in operation. The number of gallons pumped from and returned to the stream in 1979 were determined from these tabulations.

Tabulations of surface-water use for irrigation were provided by the six district offices of DNR and coordinated by Robert Roden of DNR. Irrigators are required to have permits to pump from lakes and streams and to report quantities pumped to DNR. Permits are not required in Wisconsin for pumpage from artificial ponds not connected to a surface drainage system. Estimates of these small amounts of use in the form of a percentage of permitted pumpage were made by personnel of the DNR district offices.

In determining surface-water use by stock each type of animal was not considered because of the small amount of water involved. Surface-water use for all stock was estimated to be 5 percent of the computed ground-water use by cattle alone. This percentage was based on estimates by several county agricultural agents throughout the State.

The listed values in table 2 do not necessarily add up precisely to the totals because of rounding.

HYDROELECTRIC POWER

The use of water to generate hydroelectric power is estimated for the plants of all private or municipally owned utilities in the State (table 3). Water-use estimates were determined by the formula

$$\text{MGD} = \frac{1.25 \text{ Kwh/yr}}{1,000 \text{ H}},$$

where: MGD = million gallons per day,
kwh/yr = kilowatt hours per year, and
H = difference, in feet, between headwater and tailwater.

This is a standard relation between streamflow, power potential, and net head, assuming 70 percent turbine/generator efficiency. Flow capacity at normal head is the maximum rate of discharge that can flow through a plant at any time. These values and average head values (H) were obtained from the Upper Mississippi River Comprehensive Basin Study (1970) or from the individual plant owners. Annual power generation data were obtained from the Public Service Commission (1980).

THERMOELECTRIC POWER

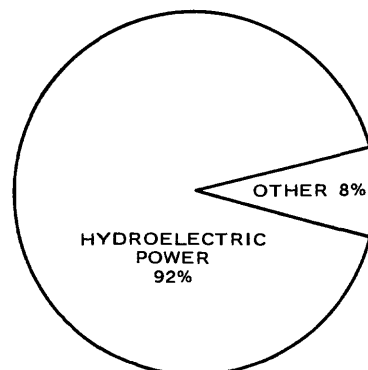
The use of water at thermoelectric powerplants also is estimated for all private, municipal, or cooperatively owned utilities in the State (table 4). Surface-water use figures were obtained from DNR's reports of daily cooling-water diversions. The ground-water values listed in this table are from the DNR reports of pumpage for private high-capacity wells. This ground-water pumpage is primarily for make-up water. Any water used for domestic purposes within the plant is insignificant and is not pertinent to this table. Annual power generation data were obtained from the Public Service Commission (1980).

SUMMARY

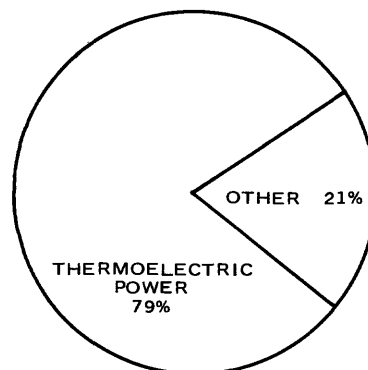
Table 5 summarizes water use for the State incorporating data from tables 1-4.

By far the greatest use of water is for hydroelectric power production. Of the total 1979 use of 28.3 trillion gallons, 26.1 trillion gallons, or

92 percent, was used for this purpose. This use was not necessarily exclusionary. That is, the same water may be reused downstream for the same or other uses. Privately owned companies operated the dams and powerplants using 23.1 trillion gallons, and the remaining was used by municipally owned plants.



Of the remaining 2.15 trillion gallons (8 percent of total water use), 1.7 trillion gallons (81 percent) were used for cooling water for thermoelectric powerplants. Most of this use was by privately owned companies; the second-greatest user was a rural electric cooperative, entered under "other" as a type of public community systems in table 5. Almost all this water was pumped from surface sources.



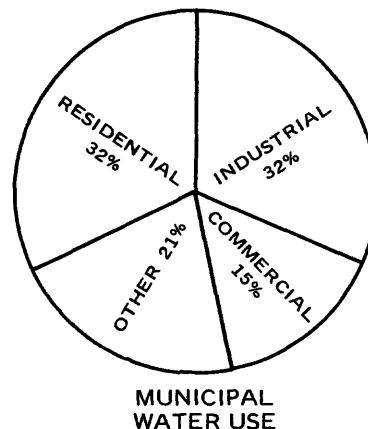
TOTAL USE
OTHER THAN FOR HYDROELECTRIC POWER

The other 0.45 trillion gallons withdrawn was distributed among the various uses shown in table 5. The largest single type of use for this remainder was as process water at pulp and paper industries, about 0.13 trillion gallons.

The sources of water, other than that for thermoelectric and hydroelectric power, are approximately equally divided between surface water and ground water. However, individual uses may be heavily from one source. For example, irrigation and stock water come mostly from ground water, whereas water used by industry comes principally from surface water.

Water pumped by cities and villages is about equally divided between surface-water and ground-water sources. Ninety-four percent of these municipalities use ground water; however, because several large population centers are located on the shore of Lakes Michigan, Superior, and Winnebago and pump from those lakes, the actual gallonages from surface-water and ground-water sources are similar. At present, with one exception, all communities not on or near the shore of these lakes pump their domestic water supply from underground. The exception is the village of Port Edwards in Wood County, which in 1979 pumped 24 percent of its domestic water supply from a nearby lake.

The uses of water from municipal utilities were distributed as follows: residential, 32 percent; industrial, 32 percent; commercial, 15 percent; other, 21 percent. The "other" category includes water used for public installations of various kinds (buildings and parks), firefighting, and for system losses. Water sold by one municipality to another is not considered, except as distributed by the receiving entity.



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Table 1.--Municipal water use in 1979

COUNTY	MUNICIPALITY	SOURCE	POPULATION	WATER DELIVERIES IN MILLIONS OF GALLONS				TOTAL
				RESIDENTIAL	INDUSTRIAL	COMMERCIAL	OTHER	
ADAMS	ADAMS CITY OF	GW	1510	26.60	21.90	12.20	7.66	68.36#
	FRIENDSHIP VILLAGE OF	GW	818	10.20	4.16	14.80	5.66	34.82
	TOTAL		2328	36.80	26.06	27.00	13.32	103.18
ASHLAND	ASHLAND CITY OF	SW	8768	135.04	0.0	147.81	151.87	434.72
	BUTTERNUT VILLAGE OF	GW	477	6.01	4.67	1.52	2.95	15.15
	MELLEN CITY OF	GW	1033	13.10	15.80	4.22	37.37	70.49
	TOTAL		10278	154.15	20.47	153.55	192.19	520.36
BARRON	ALMENA VILLAGE OF	GW	479	7.72	0.0	3.12	6.93	17.78
	BARRON CITY OF	GW	2420	39.90	168.00	117.00	36.14	361.04
	CAMERON VILLAGE OF	GW	1168	18.06	0.0	8.58	47.23	73.87
	CHEYEK CITY OF	GW	1721	26.74	1.26	20.50	67.85	116.34
	CUMBERLAND CITY OF	GW	1986	33.19	97.27	22.41	63.07	215.93
	DALLAS VILLAGE OF	GW	393	6.55	0.0	2.75	3.00	12.30
	HAUGEN VILLAGE OF	GW	248	2.63	0.97	0.14	2.30	6.04
	RICE LAKE CITY OF	GW	7860	106.00	48.40	143.00	223.20	520.60
	TURTLF LAKE VILLAGE OF	GW	714	10.31	5.91	4.61	10.49	31.32
	TOTAL		16989	251.10	321.80	322.11	460.20	1355.22
BAYFIELD	WASHBURN CITY OF	GW	1972	25.47	5.93	8.09	41.60	81.09
	RAYFLD CITY OF	GW	883	13.50	0.0	12.40	30.55	56.45
	TOTAL		2855	38.97	5.93	20.49	72.15	137.54
BROWN	ALLOUFZ TOWN OF	GW	14638	315.76	0.0	36.97	203.06	555.79
	ASHWAIBENON VILLAGE OF	GW	15315	262.57	117.61	206.60	184.17	770.95
	DENMARK VILLAGE OF	GW	1665	20.24	6.67	7.88	23.91	58.70
	DE PERE CITY OF	GW	14913	326.38	73.52	43.48	96.23	539.60
	GREEN BAY CITY OF	SW	89918	1570.00	2330.00	927.00	958.00	5785.00
	HOWARD VILLAGE OF	GW	7842	111.62	1.21	32.28	54.42	199.53
	PULASKI VILLAGE OF	GW	1874	30.00	12.70	10.40	6.52	59.62
	WRIGHTSTOWN VILLAGE OF	GW	1192	16.65	1.13	3.17	7.83	28.78
	TOTAL		147357	2653.21	2542.84	1267.79	1534.13	7997.97
	BUFFALO	ALMA CITY OF	GW	942	25.60	0.0	13.30	11.98
COCHRANE VILLAGE OF		GW	603	7.17	0.33	3.77	9.89	21.16
FOUNTAIN CITY CITY OF		GW	1093	2.72	0.0	2.93	0.25	5.90
MONDOVI CITY OF		GW	2391	37.20	10.20	22.70	21.80	91.90
NELSON VILLAGE OF		GW	383	4.77	0.43	3.75	1.94	10.88
TOTAL			5412	77.46	10.95	46.45	45.86	180.73
BURNETT	GRANTSBURG VILLAGE OF	GW	1102	11.83	10.63	15.59	9.91	47.96
	SIREN VILLAGE OF	GW	841	12.46	0.0	15.37	6.31	34.14
	WEBSTER VILLAGE OF	GW	580	8.89	0.0	5.18	11.07	25.14
TOTAL		2523	33.18	10.63	36.15	27.29	107.24	
CALUMET	BRILLION CITY OF	GW	2752	50.03	228.71	17.15	4.98	300.87
	CHILTON CITY OF	GW	2929	45.54	191.36	24.35	14.02	275.28
	HILBERT VILLAGE OF	GW	1075	15.61	4.89	4.54	5.45	30.49
	NEW HOLSTEIN CITY OF	GW	3356	57.10	74.48	16.32	19.19	167.10
	SHERWOOD VILLAGE OF	GW	395	5.60	0.0	1.98	11.46	19.04
	TOTAL		10507	173.90	499.45	64.33	55.10	792.78
CHIPPEWA	BLOOMER CITY OF	GW	3371	56.11	103.23	24.24	10.08	193.67
	BOYD VILLAGE OF	GW	622	7.37	0.69	2.31	6.46	16.83
	CADOTT VILLAGE OF	GW	1242	18.40	3.45	5.83	9.55	37.23
	CHIPPEWA FALLS CITY OF	GW	12658	189.54	673.99	89.95	221.19	1174.67
	CORNELL CITY OF	GW	1535	17.00	5.27	8.43	13.06	43.76
	NEW AUBURN VILLAGE OF	GW	415	6.71	0.0	2.08	5.51	14.30
	STANLEY CITY OF	GW	2004	27.66	9.83	12.86	50.67	101.02
	TOTAL		21847	322.80	796.45	145.71	316.52	1581.48
CLARK	ARBOTSFORD CITY OF	GW	1895	24.87	14.63	16.44	18.22	74.16
	COLBY CITY OF	GW	1353	16.40	6.28	9.40	7.41	39.49
	DORCHESTER VILLAGE OF	GW	598	7.28	3.43	2.50	4.21	17.42
	GRANTON VILLAGE OF	GW	347	5.15	0.0	0.60	3.11	8.86
	GREENWOOD CITY OF	GW	1176	15.65	18.55	2.82	13.96	50.97
	LOYAL CITY OF	GW	1252	17.80	3.12	6.80	2.79	30.51
	NEILLSVILLE CITY OF	GW	2881	35.30	43.10	27.90	26.05	132.35
	OWEN CITY OF	GW	958	10.90	3.79	7.98	14.26	36.93
	THORP CITY OF	GW	1683	34.80	1.04	14.50	17.36	67.70
	WITHEE VILLAGE OF	GW	491	6.43	0.06	3.05	9.30	18.85
	TOTAL		12634	174.58	94.00	92.00	116.68	477.25
COLUMBIA	ARLINGTON VILLAGE OF	GW	406	8.63	0.11	1.72	5.38	15.84
	CAMBRIA VILLAGE OF	GW	683	12.64	20.12	4.52	13.25	50.54
	COLUMBUS CITY OF	GW	3966	66.40	19.80	34.00	41.22	161.42
	FALL RIVER VILLAGE OF	GW	791	12.20	24.50	7.86	13.46	58.02
	FRIESLAND VILLAGE OF	GW	289	4.09	1.00	0.14	1.22	6.45
	INDI CITY OF	GW	2123	35.50	37.40	20.70	29.20	122.80
	PARDEFVILLE VILLAGE OF	GW	1695	28.60	0.0	9.13	16.81	54.54
	PORTAGE CITY OF	GW	7655	178.00	80.60	89.90	88.80	437.30
	POYNETTE VILLAGE OF	GW	1497	23.44	2.45	11.52	14.60	52.02
	RANDOLPH VILLAGE OF	GW	1306	25.22	6.32	6.26	11.11	48.91
	RTO VILLAGE OF	GW	859	18.53	2.15	1.54	7.83	30.05
	WISCONSIN BELLS CITY OF	GW	2447	43.80	0.0	77.50	49.29	170.59
	WYOCENA VILLAGE OF	GW	447	4.54	0.0	0.99	11.96	17.49
	TOTAL		24164	461.59	194.44	265.79	304.14	1225.96
CRAWFORD	EASTMAN VILLAGE OF	GW	330	2.79	0.0	3.40	1.60	7.79
	GAYS MILLS VILLAGE OF	GW	661	8.18	4.37	2.20	15.21	29.96
	MOUNT STERLING VILLAGE OF	GW	157	2.91	1.14	0.26	0.49	4.80
	PRAIRIE DU CHIEN CITY OF	GW	5544	108.00	65.20	62.10	213.50	448.80
	SOLDIERS GROVE VILLAGE OF	GW	507	5.64	1.48	3.68	18.03	28.83
	WAUZKA VILLAGE OF	GW	456	7.44	0.0	1.03	11.75	20.22
TOTAL		7655	134.96	72.19	72.67	260.58	540.40	

Table 1.--Municipal water use in 1979--Continued

COUNTY	MUNICIPALITY	SOURCE	POPULATION	WATER DELIVERIES IN MILLIONS OF GALLONS				TOTAL	
				RESIDENTIAL	INDUSTRIAL	COMMERCIAL	OTHER		
DANE	RFLLEVILLE VILLAGE OF	GW	1338	26.07	3.40	6.45	33.93	69.85	
	RLACKFARTH VILLAGE OF	GW	1331	18.76	0.0	7.29	6.70	32.75	
	CAMBRIDGE VILLAGE OF	GW	939	14.00	0.05	5.51	12.46	32.02	
	COTTAGE GROVE VILLAGE OF	GW	1049	20.04	3.51	2.21	2.60	28.36	
	CROSS PLAINS VILLAGE OF	GW	2426	46.53	8.25	6.51	5.19	66.48	
	DANE VILLAGE OF	GW	639	9.39	2.54	6.82	4.91	17.67	
	DERFIELD VILLAGE OF	GW	1421	24.44	12.64	6.38	2.64	46.10	
	DF FOREST VILLAGE OF	GW	3252	65.05	51.86	10.14	10.76	137.81	
	FITCHBURG TOWN OF	GW	11074	85.31	7.24	170.19	66.09	329.83	
	MADISON CITY OF	GW	173051	4240.00	1020.00	1800.00	3264.00	10324.00**	
	MAPLE BLUFF VILLAGE OF	GW	1389	65.50	0.0	4.76	4.58	74.84	
	MARSHALL VILLAGE OF	GW	2200	43.90	0.46	6.61	12.06	63.03	
	MAZOMANIE VILLAGE OF	GW	1423	24.35	0.0	7.93	14.32	46.61	
	MC FARLAND VILLAGE OF	GW	3907	86.19	0.0	20.44	37.69	144.32	
	MIDDLETON CITY OF	GW	11956	313.39	97.31	56.34	122.16	589.21	
	MONONA CITY OF	GW	9381	220.00	0.0	106.00	9.67	335.67	
	MOUNT MOREH VILLAGE OF	GW	3297	54.30	21.20	27.40	105.78	208.68	
	OREGON VILLAGE OF	GW	4108	81.20	1.23	12.50	39.80	134.73	
	SHOREWOOD HLS VILLAGE OF	GW	1552	51.50	0.0	9.41	15.90	76.81	
	STOUGHTON CITY OF	GW	8043	147.09	129.02	49.24	174.65	500.01	
	SUN PRAIRIE CITY OF	GW	13923	299.57	146.46	111.40	160.85	718.29	
	VFRONA CITY OF	GW	3802	82.31	30.21	18.71	30.28	161.50	
	WAUNAKEE VILLAGE OF	GW	4030	67.63	92.52	28.60	31.21	219.97	
	TOTAL			265531	6086.49	1627.92	2474.86	4168.25	14357.52
	DODGE	REAVES DAM CITY OF	GW	14514	249.00	227.29	104.17	151.49	731.95
		BROWNVILLE VILLAGE OF	GW	459	7.60	0.0	3.63	10.61	21.83
		CLYMAN VILLAGE OF	GW	378	4.12	49.87	1.38	3.57	58.94
FOX LAKE CITY OF		GW	1227	24.60	0.97	2.59	25.57	53.73	
HDRICON CITY OF		GW	3622	67.36	97.67	13.21	38.15	216.39	
HUSTISFORD VILLAGE OF		GW	866	12.00	14.23	4.25	6.20	36.68	
IRON RIDGE VILLAGE OF		GW	731	7.33	0.52	6.87	2.99	17.72	
JUNEAU CITY OF		GW	2147	28.16	23.90	6.88	49.81	108.76	
LOMIRA VILLAGE OF		GW	1431	22.84	6.50	8.32	7.32	44.98	
LOWELL VILLAGE OF		GW	316	4.03	0.13	0.48	2.52	7.16	
MAYVILLE CITY OF		GW	4536	70.37	134.20	27.68	42.21	274.47	
RESEVILLE VILLAGE OF		GW	659	7.94	1.45	5.47	3.47	18.33	
THERESA VILLAGE OF		GW	770	10.87	1.97	2.27	5.34	20.46	
WAUPUN CITY OF		GW	7904	109.00	35.40	38.70	169.60	352.70	
TOTAL				39530	625.23	594.10	225.92	518.84	1964.10
DOOR		SISTER BAY VILLAGE OF	GW	518	9.39	0.0	8.71	3.29	21.39
		STURGFON BAY CITY OF	GW	8294	164.00	213.00	103.00	187.00	667.00
		TOTAL		8812	173.39	213.00	111.71	190.29	688.39
DOUGLAS	OLIVER VILLAGE OF	GW	251	1.46	0.0	0.35	0.62	2.43	
	SUPERIOR CITY OF	GW	29719	472.00	588.00	323.00	291.20	1674.20	
TOTAL			29970	473.46	588.00	323.35	291.82	1676.63	
DUNN	ROYCEVILLE VILLAGE OF	GW	879	17.40	3.00	3.96	5.64	30.00	
	COLFAX VILLAGE OF	GW	1174	16.46	0.18	6.42	17.57	40.64	
	ELK MOUND VILLAGE OF	GW	677	7.88	0.0	4.79	7.60	20.27	
	KNAPP VILLAGE OF	GW	465	10.10	0.31	2.34	2.81	15.56	
	MEMONIE CITY OF	GW	10668	144.00	27.10	199.00	126.00	496.10	
	WHEELER VILLAGE OF	GW	236	7.05	0.0	1.63	0.65	9.33	
	TOTAL			14099	202.90	30.59	218.15	160.26	611.90
EAU CLAIRE	ALTOONA CITY OF	GW	4255	70.79	0.0	37.23	37.25	145.26	
	AUGUSTA CITY OF	GW	1424	18.43	116.15	8.44	17.41	160.42	
	EAU CLAIRE CITY OF	GW	49582	1010.00	1500.00	456.00	856.00	3822.00	
	FAIRCCHILD VILLAGE OF	GW	508	5.66	0.0	2.70	4.81	13.18	
	FALL CREEK VILLAGE OF	GW	1041	16.56	0.0	4.66	10.27	31.49	
TOTAL			56810	1121.44	1616.15	509.03	925.73	4172.35	
FOND DU LAC	BRANDON VILLAGE OF	GW	857	14.00	0.0	2.45	11.30	27.75	
	CAMPBELLSPORT VILLAGE OF	GW	1962	24.40	20.40	18.70	31.54	95.04	
	FAIRWATER VILLAGE OF	GW	357	4.63	1.13	0.84	1.76	8.36	
	FOND DU LAC CITY OF	GW	36204	704.00	475.00	211.00	1582.00	2972.00	
	NOR FOND DU LAC VILLG OF	GW	4129	69.88	9.61	16.23	22.17	117.89	
	OAKFIELD VILLAGE OF	GW	1014	19.60	31.80	2.73	6.64	60.77	
	ST CLOUD VILLAGE OF	GW	597	8.52	0.0	0.45	3.63	12.60	
	RIPON CITY OF	GW	6915	121.30	104.90	91.86	83.20	401.26	
TOTAL			52035	966.33	642.83	344.27	1742.24	3695.67	
FOREST	CRANDON CITY OF	GW	1849	22.70	3.97	18.60	17.56	62.83	
	TOTAL		1849	22.70	3.97	18.60	17.56	62.83	
GRANT	RAGLEY VILLAGE OF	GW	303	5.11	0.0	0.95	4.42	10.49	
	BLOOMINGTON VILLAGE OF	GW	722	12.00	0.0	6.14	10.89	29.03	
	BLUE RIVER VILLAGE OF	GW	415	6.80	0.0	1.53	3.73	12.06	
	ROSCOREL CITY OF	GW	2498	42.70	0.0	50.80	18.03	111.53	
	CASSVILLE VILLAGE OF	GW	1327	19.60	26.80	7.33	11.82	65.55	
	CUBA CITY OF	GW	2283	36.40	4.78	12.30	23.80	77.28	
	DICKEYVILLE VILLAGE OF	GW	1332	20.20	1.52	2.00	3.07	26.79	
	FENNIMOHF CITY OF	GW	2042	32.90	13.30	14.00	33.60	93.80	
	HAZEL GREEN VILLAGE OF	GW	1269	20.40	0.0	13.40	8.66	42.46	
	LANCASTER CITY OF	GW	4084	70.10	93.90	26.50	32.70	223.20	
	LIVINGSTON VILLAGE OF	GW	595	11.42	4.16	1.75	6.24	23.58	
	MONTFORT VILLAGE OF	GW	659	9.98	1.11	1.45	7.86	20.40	
	MOUNT HOPE VILLAGE OF	GW	161	4.00	0.0	2.00	1.94	7.94	
	MUSCONA VILLAGE OF	GW	1256	19.40	0.0	44.50	25.10	89.00	
	PATCH GROVE VILLAGE OF	GW	212	4.36	0.0	0.31	3.69	8.37	
	PLATTVILLE CITY OF	GW	9039	134.00	23.45	34.87	153.92	346.24	
	POTOSI VILLAGE OF	GW	785	10.15	0.0	2.30	20.87	33.32	
	TENNYSON VILLAGE OF	GW	500	9.54	0.0	1.72	4.16	15.41	
	TOTAL			29482	469.05	169.02	223.86	374.50	1236.43

Table 1.--Municipal water use in 1979--Continued

COUNTY	MUNICIPALITY	SOURCE	POPULATION	WATER DELIVERIES IN MILLIONS OF GALLONS				TOTAL
				RESIDENTIAL	INDUSTRIAL	COMMERCIAL	OTHER	
GREEN	ALBANY VILLAGE OF	GW	1001	15.60	0.01	4.35	18.23	38.19
	BROOKFAD CITY OF	GW	3113	58.80	18.90	11.60	26.93	116.23
	BROOKLYN VILLAGE OF	GW	673	13.19	0.03	1.78	5.22	20.21
	BROWNTOWN VILLAGE OF	GW	272	4.33	0.03	0.90	0.32	5.57
	MDNROF CITY OF	GW	9618	170.00	234.00	187.00	276.40	867.40
	MONTICELLO VILLAGE OF	GW	955	17.70	6.93	8.22	16.57	49.42
	NEW GLARUS VILLAGE OF	GW	1628	26.40	0.0	27.30	39.53	93.23
	TOTAL		17260	306.02	259.90	241.14	383.20	1190.26
GREEN LAKE	BERLIN CITY OF	GW	5286	93.90	192.00	50.80	33.30	370.00
	GREEN LAKE CITY OF	GW	1124	22.50	0.0	17.80	10.55	50.85
	MARKESAN CITY OF	GW	1412	23.10	15.00	6.34	15.70	60.14
	PRINCFTON CITY OF	GW	1386	22.00	2.52	18.00	22.40	64.92
	TOTAL		9208	161.50	209.52	92.94	81.95	545.91
IOWA	ARENA VILLAGE OF	GW	446	8.01	4.03	0.65	2.15	14.85
	AVOCA VILLAGE OF	GW	464	6.49	1.83	0.0	5.59	13.91
	BARNEVELD VILLAGE OF	GW	603	9.56	6.07	0.0	27.66	43.29
	COBB VILLAGE OF	GW	418	5.89	5.67	1.10	6.87	19.53
	DODGEVILLE CITY OF	GW	3426	67.10	13.77	0.0	114.17	195.03
	HIGHLAND VILLAGE OF	GW	761	11.84	0.0	2.38	7.52	21.74
	HOLLANDALE VILLAGE OF	GW	293	3.18	0.0	1.70	2.92	7.80
	LINDEN VILLAGE OF	GW	386	5.35	2.31	2.26	14.20	24.11
	MINERAL POINT CITY OF	GW	2360	33.51	8.18	18.97	93.28	153.94
	RFWEY VILLAGE OF	GW	235	3.39	1.83	1.85	6.35	13.43
	RIDGEWAY VILLAGE OF	GW	505	7.03	0.0	1.87	7.78	16.68
	TOTAL		9897	161.35	43.69	30.78	288.48	524.30
	IRON	HURLEY CITY OF	GW	2139	32.64	0.0	21.01	71.56
MONTFAL CITY OF		GW	791	14.00	0.0	4.00	17.00	35.00
TOTAL			2930	46.64	0.0	25.01	88.56	160.22
JACKSON	ALMA CENTER VILLAGE OF	GW	494	5.82	1.42	1.85	6.78	15.87
	BLACK RIVER FALLS CITY	GW	3366	46.71	27.05	40.33	83.46	197.55
	HIXTON VILLAGE OF	GW	378	6.26	0.0	2.70	4.68	13.64
	MELROSE VILLAGE OF	GW	485	7.78	0.0	1.73	3.27	12.79
	MERRILLAN VILLAGE OF	GW	608	8.31	0.0	2.86	5.20	16.37
	TAYLOR VILLAGE OF	GW	364	4.38	0.35	1.72	3.34	9.79
	TOTAL		5695	79.26	28.82	51.19	106.73	266.01
JEFFERSON	FORT ATKINSON CITY OF	GW	9761	224.00	389.00	95.00	50.60	758.60
	JEFFERSON CITY OF	GW	5850	108.70	171.00	48.80	92.60	421.10
	JOHNSON CREEK VILLAGE OF	GW	1030	13.64	21.65	16.10	5.19	56.58
	LAKE MILLS CITY OF	GW	3954	76.39	95.33	57.66	98.94	328.32
	PALMYRA VILLAGE OF	GW	1558	26.60	2.95	7.41	13.67	50.63
	WATERLDO VILLAGE OF	GW	2235	37.80	65.91	23.46	30.34	157.51
	WATERTOWN CITY OF	GW	17311	320.08	356.31	156.56	254.80	1087.75
	TOTAL		41699	807.21	1102.15	404.98	546.14	2860.48
JUNEAU	CAMP DOUGLAS VILLAGE OF	GW	592	8.31	0.0	3.01	5.19	16.51
	ELROY CITY OF	GW	1402	22.85	2.06	7.30	43.99	76.21
	LYNDON STATION VILLAGE	GW	512	4.56	0.15	3.70	15.82	24.23
	MAUSTON CITY OF	GW	3189	62.07	8.88	56.33	58.77	186.04
	NECEDAH VILLAGE OF	GW	801	9.46	6.92	16.23	20.73	53.34
	NEW LISBON CITY OF	GW	1343	17.20	0.0	17.30	15.34	49.84
	UNION CENTER VILLAGE OF	GW	173	3.48	0.0	1.62	1.01	6.11
	WONEWOC VILLAGE OF	GW	786	12.20	11.30	5.06	16.09	44.65
	TOTAL		8798	140.14	29.31	110.54	176.94	456.93
KENOSHA	KENOSHA CITY OF	SW	80775	2007.05	2060.99	558.53	1855.47	6482.04
	PADDOCK LAKE VILLAGE OF	GW	468	7.41	3.29	2.47	4.14	17.32
	TOTAL		81243	2014.46	2064.28	561.00	1859.61	6499.35
KEWAUWEE	ALGOMA CITY OF	GW	3796	54.64	24.43	26.70	46.49	152.25
	KEWAUWEE CITY OF	GW	2898	45.33	20.41	15.21	27.54	108.49
	LUXEMBURG VILLAGE OF	GW	1119	16.87	10.90	6.37	14.85	48.98
	TOTAL		7813	116.84	55.73	48.27	88.87	309.72
LA CROSSE	BANGOR VILLAGE OF	GW	1052	20.60	0.0	12.30	37.37	70.27
	HOLMEN VILLAGE OF	GW	2522	48.20	7.76	9.58	44.50	110.04
	LA CROSSE CITY OF	GW	49403	925.00	1710.00	1220.00	2611.00	6466.00
	DNALASKA CITY OF	GW	8061	183.00	2.63	95.90	54.00	335.53
	ROCKLAND VILLAGE OF	GW	350	5.60	0.0	0.66	2.88	9.14
	WEST SALEM VILLAGE OF	GW	3489	50.60	6.24	36.50	24.93	118.27
TOTAL		64877	1233.00	1726.63	1374.94	2774.68	7109.24	
LAFAYETTE	ARGYLE VILLAGE OF	GW	532	11.70	0.0	8.39	17.93	38.02
	BELMONT VILLAGE OF	GW	840	12.80	8.36	1.82	24.03	47.01
	BENTON VILLAGE OF	GW	960	14.60	0.0	2.31	6.66	23.57
	BLANCHARDVILLE VILLAGE OF	GW	773	11.80	11.80	5.48	31.10	60.18
	DARLINGTON CITY OF	GW	2420	39.80	6.43	14.00	96.00	156.23
	GRATIOT VILLAGE OF	GW	295	3.97	0.0	1.96	10.94	16.87
	SHULLSBERG CITY OF	GW	1450	25.10	3.89	4.70	41.99	75.68
	SOUTH WAYNE VILLAGE OF	GW	524	6.80	0.0	2.98	18.27	28.05
	TOTAL		7794	126.57	30.48	41.64	246.92	445.61
LANGLAOE	ANTIGO CITY OF	GW	8565	138.00	101.00	58.50	154.80	452.30
	WHITE LAKE VILLAGE OF	GW	308	4.95	0.04	0.80	4.70	10.49
	TOTAL		8873	142.95	101.04	59.30	159.50	462.79

Table 1.--Municipal water use in 1979--Continued

COUNTY	MUNICIPALITY	SOURCE	POPULATION	WATER DELIVERIES IN MILLIONS OF GALLONS				TOTAL	
				RESIDENTIAL	INDUSTRIAL	COMMERCIAL	OTHER		
LINCOLN	MERRILL CITY OF	GW	9390	148.00	145.00	63.40	89.30	445.70	
	TOMAHAWK CITY OF	GW	3767	51.20	11.60	38.50	59.29	160.59	
	TOTAL		13157	199.20	156.60	101.90	148.59	606.29	
MANITOWOC	CLEVELAND VILLAGE OF	GW	1174	23.30	0.33	4.21	8.19	36.03	
	KELLSVILLE VILLAGE OF	GW	318	3.43	0.0	3.15	4.03	10.61	
	KIEL CITY OF	GW	2715	53.70	6.03	11.90	24.35	95.98	
	MANITOWOC CITY OF	SW	32940	669.00	1320.00	228.00	271.30	2488.30	
	MARIBL VILLAGE OF	GW	391	5.14	0.10	1.66	1.69	8.59	
	WISHTCOT VILLAGE OF	GW	1473	17.30	13.60	0.02	10.76	41.68	
	REEDSVILLE VILLAGE OF	GW	1119	19.00	0.00	3.84	8.43	31.27	
	ST MAZIANZ VILLAGE OF	GW	787	11.30	0.0	3.64	6.81	21.75	
	TWO RIVERS CITY OF	SW	13208	271.00	227.00	62.20	161.90	722.10	
	VALDEPS VILLAGE OF	GW	1054	17.50	0.0	12.90	9.52	39.92	
	WHITELAW VILLAGE OF	GW	688	10.30	0.0	1.91	3.06	15.27	
	TOTAL		55867	1100.97	1567.07	333.43	510.04	3511.50	
MARATHON	ATHENS VILLAGE OF	GW	984	11.10	0.0	5.29	12.62	29.01	
	BRDKAW VILLAGE OF	GW	251	5.96	1900.00	0.02	4.97	1910.95	
	EDGAR VILLAGE OF	GW	1184	14.90	22.80	6.15	34.20	78.05	
	MARATHON VILLAGE OF	GW	1558	24.20	37.00	7.74	14.01	82.95	
	MOSINFE CITY OF	GW	3415	45.70	33.60	12.50	33.86	125.66	
	ROTHSCCHILD VILLAGE OF	GW	3635	65.90	94.10	14.90	31.07	205.97	
	SCHOFFELD CITY OF	GW	3763	39.50	81.60	35.30	46.70	203.10	
	SPENCER VILLAGE OF	GW	1720	20.40	1.79	10.70	8.13	41.02	
	STRATFORD VILLAGE OF	GW	1400	18.00	0.15	4.04	11.30	33.49	
	WAUSAU CITY OF	GW	37342	608.00	329.00	378.00	462.00	1777.00	
	TOTAL		51172	853.66	2500.04	474.64	658.86	4487.19	
	MARINETTE	COLEMAN VILLAGE OF	GW	789	12.10	28.90	8.13	10.60	59.73
		MARINETTE CITY OF	SW	11913	216.00	585.00	83.10	94.20	978.30
NIAGARA VILLAGE OF		GW	2305	37.20	14.10	14.70	106.40	172.40	
PESHIGO CITY OF		GW	2909	46.10	10.80	13.80	84.00	154.70	
POUND VILLAGE OF		GW	389	4.79	0.0	3.28	3.85	11.92	
WAUSAUKEE VILLAGE OF		GW	590	10.80	1.23	3.96	9.07	25.06	
TOTAL			18895	326.99	640.03	126.97	308.12	1402.11	
MARQUETTE		MONTELLO CITY OF	GW	1234	25.40	0.75	13.80	8.67	48.62
	TOTAL		1234	25.40	0.75	13.80	8.67	48.62	
MILWAUKEE	BROWN DEER VILLAGE OF	SW	14128	260.00	207.00	114.00	45.70	626.70	
	CUDAHY CITY OF	SW	20784	448.00	289.00	123.00	267.60	1127.60	
	FOX POINT VILLAGE OF	SW	7626	291.00	0.0	56.20	32.96	380.16	
	FRANKLIN CITY OF	GW	17650	75.60	44.80	22.40	41.70	184.50	
	GLENDALE CITY OF	SW	13678	408.00	598.00	248.00	19.50	1273.50	
	GREENDALE VILLAGE OF	SW	18141	425.00	16.70	108.00	30.40	580.10	
	MILWAUKEE CITY OF	SW	612074	14670.00	18110.00	9080.00	6230.00	48090.00	
	OAK CREEK CITY OF	SW	15376	207.00	608.00	206.00	165.00	1186.00	
	SHOREWOOD VILLAGE OF	SW	13643	415.00	0.0	56.30	94.30	565.60	
	SOUTH MILWAUKEE CITY OF	SW	22587	433.00	732.00	105.00	162.70	1432.70	
	WAUWATOSA CITY OF	SW	53813	1260.00	544.00	442.00	366.30	2612.30	
	WEST ALLIS CITY OF	SW	65628	1500.00	1380.00	442.00	400.20	3722.20	
	WHITEFISH BAY VILLAGE OF	SW	15413	510.00	0.0	49.40	115.89	675.29	
	TOTAL		890541	20902.59	22529.50	11052.29	7972.24	62456.64	
	MONROE	CASHOT VILLAGE OF	GW	827	19.80	0.0	4.79	16.92	41.51
KENDALL VILLAGE OF		GW	444	7.33	0.0	3.81	1.84	12.98	
NORWALK VILLAGE OF		GW	488	9.03	11.30	2.26	16.12	38.71	
SPARTA CITY OF		GW	6711	119.00	267.00	55.50	247.80	689.30	
TOMAH CITY OF		GW	7090	103.00	52.30	80.70	28.40	264.40	
WARRENS VILLAGE OF		GW	305	4.06	0.0	0.73	0.54	5.33	
WILTON VILLAGE OF		GW	474	6.92	0.0	2.89	16.30	26.11	
TOTAL		16339	269.14	330.60	150.68	325.92	1076.34		
OCONTO	GILLET CITY OF	GW	1306	21.80	61.20	6.85	15.43	105.28	
	LENA VILLAGE OF	GW	643	9.37	59.90	4.01	27.40	100.68	
	OCONTO CITY OF	GW	4661	62.50	59.10	21.20	74.60	217.40	
	OCONTO FALLS CITY OF	GW	2684	46.90	28.60	18.90	25.16	119.56	
	SURTING VILLAGE OF	GW	573	8.27	0.0	5.06	7.77	21.10	
TOTAL		9867	148.84	209.80	56.02	150.36	564.02		
ONEIDA	RHINELANDER CITY OF	GW	8407	145.00	190.00	120.00	301.30	756.30	
	TOTAL		8407	145.00	190.00	120.00	301.30	756.30	
OUTAGAMIE	APPLETON CITY OF	SW	62170	1110.00	974.00	395.00	504.00	2983.00	
	BLACK CREEK VILLAGE OF	GW	1131	23.90	61.60	7.08	2.34	94.92	
	COMBINED LOCKS VILLAGE OF	GW	3234	45.60	18.70	3.16	0.74	68.20	
	HORTONVILLE VILLAGE OF	GW	2022	30.70	5.84	4.45	26.25	67.24	
	KAUKAUNA CITY OF	GW	11802	210.00	86.40	71.20	145.80	513.40	
	KIMBERLY VILLAGE OF	GW	6285	112.00	130.00	9.11	36.70	287.81	
	LITTLE CHUTE VILLAGE OF	GW	7297	131.00	11.40	46.10	37.78	226.26	
	NICHOLS VILLAGE OF	GW	312	3.36	0.0	1.43	3.85	8.64	
	SEYMOUR CITY OF	GW	2509	42.10	91.30	11.80	114.50	259.70	
	SHOCTON VILLAGE OF	GW	917	11.30	0.0	4.13	5.14	20.57	
	TOTAL		97679	1719.96	1379.24	553.46	877.10	4529.75	
OSHAUKEE	REGLIUM VILLAGE OF	GW	865	15.20	45.50	6.20	6.64	73.54	
	REDARRURG CITY OF	GW	10438	232.00	115.00	48.00	106.40	501.40	
	FREDONIA VILLAGE OF	GW	1600	26.50	1.86	6.44	13.94	48.74	
	GRAFTON VILLAGE OF	GW	8955	171.00	196.00	67.40	90.20	524.60	
	PORT WASHINGTON CITY OF	SW	8639	180.00	102.00	45.60	88.30	415.90	
	SAUKVILLE VILLAGE OF	GW	3654	68.00	214.00	5.70	4.10	291.80	
TOTAL		34151	692.70	674.36	179.34	309.57	1855.97		

Table 1.--Municipal water use in 1979--Continued

COUNTY	MUNICIPALITY	SOURCE	POPULATION	WATER DELIVERIES IN MILLIONS OF GALLONS				TOTAL
				RESIDENTIAL	INDUSTRIAL	COMMERCIAL	OTHER	
PEPIN	DURAND CITY OF	GW	2104	29.20	18.70	13.90	34.10	95.90
	PEPIN VILLAGE OF	GW	763	13.80	0.35	6.17	4.58	24.90
	TOTAL		2867	43.00	19.05	20.07	38.68	120.80
PIERCE	ELLSWORTH VILLAGE OF	GW	2056	42.60	0.14	23.80	14.24	80.78
	ELMWOOD VILLAGE OF	GW	839	12.60	0.0	5.70	14.11	32.41
	PRESCOTT CITY OF	GW	2738	46.80	0.0	18.70	51.99	117.49
	RIVER FALLS CITY OF	GW	8276	141.00	0.19	54.70	126.70	322.59
	SPRING VALLEY VILLAGE OF	GW	994	14.40	0.0	11.50	27.90	53.80
TOTAL		14903	257.40	0.33	114.40	234.94	607.07	
POLK	AMERY CITY OF	GW	2430	32.00	6.20	25.70	36.00	99.90
	RALSAM LAKE VILLAGE OF	GW	742	8.41	0.0	6.69	12.28	27.38
	CENTURIA VILLAGE OF	GW	704	7.71	0.0	10.80	7.98	26.49
	CLAYTON VILLAGE OF	GW	378	7.92	21.40	1.70	3.02	34.04
	CLEAR LAKE VILLAGE OF	GW	843	13.10	88.10	3.99	32.45	137.64
	DRESSER VILLAGE OF	GW	691	9.82	49.60	8.09	16.17	83.68
	FREDERIC VILLAGE OF	GW	1024	23.30	70.30	2.48	14.86	110.94
	LUCK VILLAGE OF	GW	913	14.80	3.97	8.50	21.01	48.28
	MILLTOWN VILLAGE OF	GW	723	9.20	0.20	7.74	15.06	32.19
	OSCEOLA VILLAGE OF	GW	1498	19.20	21.40	14.60	27.21	82.41
	ST CROIX FALLS CITY OF	GW	1593	20.50	23.50	24.70	19.64	88.34
	TOTAL		11539	165.96	284.67	114.99	205.68	771.29
	PORTAGE	AMHERST VILLAGE OF	GW	688	15.00	0.0	5.72	5.57
JUNCTION CITY VILLAGE OF		GW	499	6.92	0.0	1.06	3.27	11.25
STENS POINT CITY OF		GW	23607	404.00	132.00	313.00	591.00	1440.00
WHITING VILLAGE OF		GW	2025	34.90	85.40	2.74	50.57	173.61
TOTAL		26819	460.82	217.40	322.52	650.41	1651.15	
PRICE	PARK FALLS CITY OF	GW	3130	48.00	40.80	31.70	52.99	173.49
	PHILLIPS CITY OF	GW	1566	24.90	69.10	16.80	6.64	117.44
	PRENTICE VILLAGE OF	GW	589	11.60	4.87	3.45	18.89	38.81
	TOTAL		5285	84.50	114.77	51.95	78.52	329.74
RACINE	BURLINGTON CITY OF	GW	9199	175.10	163.70	99.70	69.60	508.10
	RACINE CITY OF	SW	92946	2170.00	3290.00	962.00	1600.00	8022.00
	STURTVANT VILLAGE OF	SW	4571	77.60	3.51	25.40	0.0	106.51
	UNION GROVE VILLAGE OF	GW	3496	63.30	137.00	29.40	83.50	313.20
	WATERFORD VILLAGE OF	GW	2418	40.20	3.50	12.80	22.91	79.41
	WIND POINT VILLAGE OF	SW	1646	58.70	0.0	17.50	2.23	78.43
TOTAL		114276	2584.90	3597.71	1146.80	1778.24	9107.64	
RICHLAND	CAZENOVIA VILLAGE OF	GW	315	3.46	0.0	1.87	4.42	9.75
	LONE ROCK VILLAGE OF	GW	646	12.00	0.0	1.91	8.30	22.21
	RICHLAND CENTER CITY OF	GW	4628	82.50	33.20	51.40	57.80	224.90
	VIOLA VILLAGE OF	GW	455	10.00	0.0	5.02	15.45	30.47
	YUBA VILLAGE OF	GW	69	0.70	0.49	0.57	1.96	3.73
TOTAL		6113	108.66	33.69	60.77	87.93	291.06	
ROCK	CLINTON VILLAGE OF	GW	1626	32.30	3.30	7.84	14.39	57.83
	EDGEMONT CITY OF	GW	4580	83.50	29.90	36.50	235.07	384.97
	EVANSVILLE CITY OF	GW	3229	59.60	0.0	36.50	31.10	127.20
	FOOTVILLE VILLAGE OF	GW	744	16.40	0.0	7.12	5.55	29.07
	JAMESVILLE CITY OF	GW	51500	1530.00	685.00	737.00	753.00	3705.00
	MILTON CITY OF	GW	4836	81.60	5.47	23.00	55.43	165.50
	ORFORDVILLE VILLAGE OF	GW	1146	20.10	4.31	0.02	23.59	48.02
	RELOIT CITY OF	GW	34711	854.00	631.00	346.00	1075.30	2906.30
	TOTAL		102372	2677.50	1358.98	1193.98	2193.43	7423.88
RUSK	BRUCE VILLAGE OF	GW	874	12.20	0.29	3.62	13.33	29.44
	HAWKINS VILLAGE OF	GW	396	8.00	0.0	3.58	8.21	19.79
	LADYSMITH CITY OF	GW	3716	64.10	17.70	51.40	45.93	179.13
	WYERHAEUSER VILLAGE OF	GW	299	4.46	0.0	1.12	2.39	7.97
TOTAL		5285	88.76	17.99	59.72	69.86	236.33	
ST. CROIX	RALDWIN VILLAGE OF	GW	1626	21.80	0.0	58.80	4.32	84.92
	GLENWOOD CITY VILLAGE OF	GW	934	15.00	0.0	6.02	12.11	33.13
	HAMMOND VILLAGE OF	GW	904	16.00	0.0	2.98	15.99	34.97
	HUDSON CITY OF	GW	8088	147.00	12.40	59.60	75.00	294.00
	NEW RICHMOND CITY OF	GW	4321	68.60	108.00	39.60	65.30	281.50
	ROBERTS VILLAGE OF	GW	805	16.00	0.95	1.48	6.58	25.01
	SOMERSET VILLAGE OF	GW	998	13.00	2.27	6.25	15.08	36.60
	STAR PRAIRIE VILLAGE OF	GW	465	8.87	0.0	0.34	4.52	13.74
	WOODVILLE VILLAGE OF	GW	646	8.03	2.66	2.84	8.06	21.59
	TOTAL		18877	314.30	126.28	177.91	206.96	825.46
	SAUK	BARABDO CITY OF	GW	8511	160.00	62.20	85.30	84.60
LAVALLE VILLAGE OF		GW	381	6.49	0.0	2.31	3.30	12.10
LOGANVILLE VILLAGE OF		GW	189	3.07	0.0	1.10	0.56	4.73
WFRRIAMAC VILLAGE OF		GW	420	5.84	0.0	2.33	2.54	10.71
NORTH FREEDOM VILLAGE OF		GW	585	8.55	0.0	3.90	8.80	21.25
PLAIN VILLAGE OF		GW	707	10.35	0.0	7.67	10.44	32.41
PRAIRIE DU SAC CITY OF		GW	2306	44.70	2.18	15.20	35.43	97.51
REEDSBURG CITY OF		GW	4821	76.70	245.00	50.00	44.90	416.60
ROCK SPRINGS VILLAGE OF		GW	389	7.58	0.0	1.59	2.23	11.40
SAUK CITY VILLAGE OF		GW	2812	54.10	0.0	62.40	31.00	147.50
SPRING GREEN VILLAGE OF		GW	1465	24.60	0.53	9.74	24.03	58.90
TOTAL		22586	405.93	309.91	241.54	247.82	1205.20	
SAWYER	HAYWARD VILLAGE OF	GW	1595	20.30	2.30	39.20	30.71	92.51
	POISSON VILLAGE OF	GW	242	4.00	0.0	2.00	7.32	13.32
	WINTER VILLAGE OF	GW	352	3.55	0.29	4.00	7.09	14.93
	TOTAL		2189	27.85	2.59	45.20	39.12	114.76

Table 1.--Municipal water use in 1979--Continued

COUNTY	MUNICIPALITY	SOURCE	POPULATION	WATER DELIVERIES IN MILLIONS OF GALLONS				TOTAL	
				RESIDENTIAL	INDUSTRIAL	COMMERCIAL	OTHER		
SHAWANO	RIKMANWOOD VILLAGE OF	GW	707	6.43	0.08	5.49	7.40	19.40	
	RONDUET VILLAGE OF	GW	1168	19.20	54.00	9.65	18.98	101.83	
	ROWLER VILLAGE OF	GW	297	4.52	0.0	0.67	5.44	10.63	
	GRESHAM VILLAGE OF	GW	510	7.87	0.10	3.36	4.50	15.83	
	MATTOON VILLAGE OF	GW	344	4.24	2.13	0.89	5.85	13.11	
	SHAWANO CITY OF	GW	6881	126.00	92.60	144.00	115.40	478.00	
	TIGERTON VILLAGE OF	GW	811	9.35	2.07	5.27	16.70	33.39	
	WITTENBURG VILLAGE OF	GW	993	12.20	0.05	12.60	16.15	41.00	
	TOTAL		11711	189.81	151.03	181.93	190.42	713.19	
	SHEROYGAN	ADELL VILLAGE OF	GW	554	8.32	1.30	2.58	2.46	14.66
CASCADE VILLAGE OF		GW	630	9.17	0.0	2.06	0.54	11.77	
CFDAR GROVE VILLAGE OF		GW	1465	29.30	43.00	3.78	8.28	84.36	
ELKHART LAKE VILLAGE OF		GW	994	20.40	3.24	9.37	33.49	66.50	
GLENBIFULAH VILLAGE OF		GW	488	7.04	0.0	1.62	6.54	15.20	
KOHLER VILLAGE OF		SW	1697	37.50	34.20	11.60	13.70	97.00	
ONSTBURG VILLAGE OF		GW	1662	33.80	5.02	9.60	6.36	54.78	
PLYMOUTH CITY OF		GW	6139	106.00	364.00	81.50	99.30	650.80	
RANDOM LAKE VILLAGE OF		GW	1321	25.50	88.10	9.64	16.23	139.47	
SHEROYGAN CITY OF		SW	48436	1070.00	1650.00	379.00	662.00	3761.00#	
SHEROYGAN FALLS CITY OF		SW	5253	81.70	427.00	16.40	77.00	602.10	
WALDO VILLAGE OF		GW	442	6.34	9.27	0.39	11.86	27.86	
TOTAL			69081	1435.07	2625.13	527.54	937.76	5525.49	
TAYLOR		GILMAN VILLAGE OF	GW	422	5.00	5.24	2.85	6.57	19.66
	MDFORD VILLAGE OF	GW	4127	66.70	53.00	15.80	63.70	199.20	
	RIB LAKE VILLAGE OF	GW	887	9.77	1.15	4.22	5.14	20.28	
	TOTAL		5436	81.47	59.39	22.87	75.41	239.14	
TREMPEALEAU	ARCAOTA CITY OF	GW	2305	27.40	101.00	25.20	22.98	176.58	
	RLAIR CITY OF	GW	1144	16.40	15.20	6.56	19.10	57.26	
	ELEVA VILLAGE OF	GW	633	9.42	0.0	2.22	4.48	16.12	
	ETTRICK VILLAGE OF	GW	478	10.20	1.91	4.26	5.40	21.77	
	GALESVILLE CITY OF	GW	1291	20.10	26.30	10.40	46.39	103.19	
	INDEPENDENCE CITY OF	GW	1089	16.00	0.34	6.94	13.19	36.47	
	OSSEO CITY OF	GW	1478	21.20	0.0	11.70	19.60	52.50	
	PIGEON FALLS VILLAGE OF	GW	284	4.67	0.0	1.30	2.32	8.29	
	STRUM VILLAGE OF	GW	872	12.60	0.0	5.51	5.17	23.28	
	TREMPEALEAU VILLAGE OF	GW	897	14.20	0.0	3.20	8.39	25.79	
	WHITEHALL CITY OF	GW	1558	23.60	21.30	16.10	22.46	83.46	
	TOTAL		12029	175.79	166.05	93.39	169.48	604.70	
	VERNON	CHASEBURG VILLAGE OF	GW	272	3.47	5.32	1.11	3.69	13.59
		COON VALLEY VILLAGE OF	GW	750	12.20	0.0	9.62	5.67	27.49
GENOA VILLAGE OF		GW	313	4.77	0.0	2.47	3.46	10.70	
HILLSBORO CITY OF		GW	1202	20.40	14.00	9.38	19.90	63.68	
LAFARGE VILLAGE OF		GW	668	9.90	5.70	3.62	10.17	29.39	
ONTARIO VILLAGE OF		GW	390	5.35	0.14	1.24	4.97	11.70	
READSTOWN VILLAGE OF		GW	323	5.02	2.71	6.58	4.78	19.09	
STODDARD VILLAGE OF		GW	911	14.10	0.0	3.57	5.23	22.90	
VIROQUA CITY OF		GW	3595	63.70	3.92	50.70	57.40	175.72	
WESTBY CITY OF		GW	1784	28.40	41.80	9.16	23.81	103.17	
TOTAL			10208	167.31	73.59	97.45	139.07	477.42	
VILAS		EAGLE RIVER CITY OF	GW	1421	22.20	0.0	64.10	39.72	126.02
	TOTAL		1421	22.20	0.0	64.10	39.72	126.02	
WALWORTH	DARIEN VILLAGE OF	GW	1143	18.80	1.12	4.58	6.27	30.77	
	DELANAN CITY OF	GW	5715	108.00	58.70	50.60	46.40	263.70	
	EAST TROY VILLAGE OF	GW	2509	40.60	140.00	25.80	39.76	246.16	
	ELKHORN CITY OF	GW	4598	83.60	18.90	46.20	75.00	223.70	
	FONTANA VILLAGE OF	GW	1823	55.40	0.0	44.10	44.35	143.85	
	GENOA CITY VILLAGE OF	GW	1266	17.90	1.33	10.30	9.64	39.17	
	LAKE GENEVA CITY OF	GW	5565	123.00	59.80	168.00	152.30	503.10	
	SHARON VILLAGE OF	GW	1339	23.30	5.25	4.51	12.70	45.76	
	WALWORTH VILLAGE OF	GW	1682	27.80	33.10	14.00	43.14	118.04	
	WHITEWATER CITY OF	GW	10626	110.00	186.00	94.10	160.00	550.10	
	WILLIAMS RAY VILLAGE OF	GW	1646	47.00	0.0	20.80	33.16	100.96	
TOTAL		37912	655.40	504.20	482.99	622.72	2265.30		
WASHBURN	RIKCHWOOD VILLAGE OF	GW	399	6.48	2.24	3.41	2.67	14.80	
	MINONG VILLAGE OF	GW	528	8.78	7.22	9.32	49.40	74.72	
	SHELL LAKE CITY OF	GW	1113	15.10	0.71	12.20	24.98	52.99	
	SPOONER CITY OF	GW	2457	44.00	0.61	17.40	60.90	122.91	
TOTAL		4497	74.36	10.78	42.33	137.95	265.42		
WASHINGTON	GERMANTOWN VILLAGE OF	GW	4400	77.80	16.20	43.30	37.10	174.40	
	HARTFORD CITY OF	GW	7599	126.00	218.00	65.90	61.50	471.40	
	JACKSON VILLAGE OF	GW	2065	20.60	32.30	26.10	4.03	83.03	
	KEWASKUM VILLAGE OF	GW	2560	43.50	96.80	11.20	6.05	157.55	
	SLINGER VILLAGE OF	GW	1759	29.00	39.00	12.90	18.06	98.96	
	WEST BEND CITY OF	GW	23110	492.00	489.00	129.00	308.20	1418.20	
TOTAL		41493	788.90	891.30	288.40	434.94	2403.54		
WAUKESHA	BROOKFIELD CITY OF	GW	36061	324.00	16.20	92.50	83.62	516.32	
	RITLER VILLAGE OF	GW	2102	38.10	62.50	49.90	24.41	174.91	
	DOUSMAN VILLAGE OF	GW	1051	22.70	0.20	2.60	7.96	33.46	
	EAGLE VILLAGE OF	GW	1011	18.50	0.0	0.88	6.27	25.65	
	HARTLAND VILLAGE OF	GW	5513	107.00	1.45	50.90	235.40	394.75	
	MONOMONEE FALLS VILLG OF	GW	32922	418.00	201.00	102.00	196.70	917.70	
	MIKRONAGO VILLAGE OF	GW	4300	87.80	1.98	13.10	41.50	144.38	
	NEW BERLIN CITY OF	GW	33913	242.00	252.00	25.80	63.90	583.70	
	CONDONOWOC CITY OF	GW	10898	198.00	40.10	161.00	105.62	504.72	
	PFWAUKEE VILLAGE OF	GW	4733	62.50	75.40	55.00	30.60	223.50	

Table 1.--Municipal water use in 1979--Continued

COUNTY	MUNICIPALITY	SOURCE	POPULATION	WATER DELIVERIES IN MILLIONS OF GALLONS				TOTAL
				RESIDENTIAL	INDUSTRIAL	COMMERCIAL	OTHER	
WAUKESHA	SUSSEX VILLAGE OF	GW	4297	76.90	0.25	6.32	20.60	104.07
	WAUKESHA CITY OF	GW	52770	1010.00	1610.00	340.00	565.00	3525.00
	TOTAL		189571	2605.50	2261.08	900.00	1381.58	7148.16
WAUPACA	CLINTONVILLE CITY OF	GW	4443	79.80	45.40	63.80	16.80	205.80
	EMBARRASS VILLAGE OF	GW	546	5.82	0.13	5.24	4.20	15.39
	IOLA VILLAGE OF	GW	1011	15.40	0.0	9.37	11.55	36.32
	MANAWA CITY OF	GW	1179	21.20	22.10	7.32	16.00	66.62
	MARION CITY OF	GW	1315	19.90	12.20	8.12	56.33	96.55
	NEW LONDON CITY OF	GW	6283	111.00	304.00	34.90	48.80	498.70
	WAUPACA CITY OF	GW	4645	74.40	628.00	48.70	26.10	777.20
	WEYAUWEGA CITY OF	GW	1608	29.80	72.20	19.20	38.61	159.81
	TOTAL		21030	357.32	1084.03	196.65	218.39	1856.39
WAUSHARA	COLOMA VILLAGE OF	GW	341	7.28	0.0	2.64	11.88	21.80
	HANCOCK VILLAGE OF	GW	417	9.08	1.27	2.47	5.74	18.56
	PLAINFIELD VILLAGE OF	GW	707	30.50	3.60	0.61	5.10	39.81
	REDGRANITE VILLAGE OF	GW	797	11.00	3.07	5.25	2.30	21.62
	TOTAL		2262	57.86	7.94	10.97	25.02	101.79
WINNEBAGO	MENASHA CITY OF	SW	15057	280.00	981.00	78.50	390.00	1729.50#
	NEENAH CITY OF	SW	23765	452.00	653.00	128.00	422.40	1655.40
	OMRO CITY OF	GW	2753	38.30	6.27	16.70	19.00	80.27
	OSHKOSH CITY OF	SW	50231	931.00	554.00	246.00	524.00	2255.00
	WINNECONNE VILLAGE OF	GW	2014	35.30	6.70	14.00	14.57	70.57
TOTAL		93820	1736.60	2200.97	483.20	1369.97	5790.73	
WOOD	BYRON VILLAGE OF	GW	736	12.20	13.70	0.16	5.97	32.03
	MARSHFIELD CITY OF	GW	17553	279.00	210.00	187.00	206.08	882.08
	NEKOOSA CITY OF	GW	2564	47.70	42.50	10.20	36.40	136.80
	PITTSVILLE CITY OF	GW	793	8.24	1.46	4.41	11.08	25.19
	PORT EDWARDS VILLAGE OF	GW	2147	39.80	75.60	25.40	6.41	147.21
	VESPER VILLAGE OF	GW	488	6.61	12.00	1.60	11.73	31.94
	WISCONSIN RAPIDS CITY OF	GW	18266	308.00	232.00	170.00	259.20	969.20
	TOTAL		42547	701.55	587.26	398.77	536.87	2224.45

WATER DELIVERIES FOR WHOLESALING TO OTHER COMMUNITIES ARE NOT INCLUDED IN THIS TOTAL.

Table 2.--Total 1979 water use, excluding hydroelectric and thermoelectric use

Adams County
(Population: 12,221)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	37	0	26	0	27	0	0	0	0	0	13	0	103	0	103
Other	14	0	0	0	0	0	0	0	0	0	0	0	14	0	14
Noncommunity systems	0	0	3	0	23	0	0	0	0	0	3	0	29	0	29
PRIVATE	167	0	3	0	0	0	4,180	0	67	3	11	0	4,430	3	4,430
Subtotal	218	0	32	0	50	0	4,180	0	67	3	27	0	4,580	3	4,580
TOTAL	218		32		50		4,180		70		27				4,580

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Ashland County
(Population: 16,031)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	19	135	20	0	6	148	0	0	0	0	40	152	85	435	520
Other	18	0	0	0	3	0	0	0	0	0	12	0	33	0	33
Noncommunity systems	0	0	1	0	7	0	0	0	0	0	4	0	12	0	12
PRIVATE	80	0	2	474	0	0	0	0	52	2	0	0	134	476	610
Subtotal	117	135	23	474	16	148	0	0	52	2	56	152	264	911	
TOTAL	252		497		164		0		54		208				1,180

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Barron County
(Population: 37,395)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	251	0	322	0	322	0	0	0	0	0	460	0	360	0	1,360
Other	7	0	0	0	0	0	0	0	0	0	0	0	7	0	7
Noncommunity systems	0	0	1	0	16	0	0	0	0	0	4	0	21	0	21
PRIVATE	365	0	519	0	0	0	389	140	670	25	0	0	1,940	165	2,100
Subtotal	623	0	842	0	338	0	389	140	670	25	464	0	3,330	165	
TOTAL	623		842		338		529		695		464				3,490

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Bayfield County
(Population: 13,103)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	39	0	6	0	21	0	0	0	0	0	72	0	138	0	138
Other	18	0	0	0	6	0	0	0	0	0	11	0	35	0	35
Noncommunity systems	0	0	4	0	15	0	0	0	0	0	5	0	24	0	24
PRIVATE	149	0	3	0	0	0	6	0	83	3	1,110	0	1,350	3	1,350
Subtotal	206	0	13	0	42	0	6	0	83	3	1,200	0	1,550	3	1,550
TOTAL	206		13		42		6		86		1,200				1,550

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Brown County
(Population: 176,217)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	1,080	1,570	210	2,330	343	927	0	0	0	0	572	958	2,210	5,780	7,990
Other	373	0	0	0	144	0	0	0	0	0	240	0	757	0	757
Noncommunity systems	0	0	2	0	10	0	0	0	0	0	7	0	19	0	19
PRIVATE															
Subtotal	1,920	1,570	967	24,900	535	927	32	0	502	21	819	958	4,780	28,400	24,400
TOTAL	3,490		25,900		1,460		32		523		1,780				33,200

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Buffalo County
(Population: 14,703)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	77	0	11	0	46	0	0	0	0	0	46	0	180	0	180
Other	5	0	0	0	0	0	0	0	0	0	0	0	5	0	5
Noncommunity systems	0	0	2	0	13	0	0	0	0	0	1	0	16	0	16
PRIVATE															
Subtotal	167	0	128	0	0	0	134	2	466	18	6	0	901	20	921
Subtotal	249	0	141	0	59	0	134	2	466	18	53	0	1,100	20	
TOTAL	249		141		59		136		484		53				1,120

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Burnett County
(Population: 11,456)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	33	0	11	0	36	0	0	0	0	0	27	0	107	0	107
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Noncommunity systems	0	0	0	0	16	0	0	0	0	0	2	0	18	0	18
PRIVATE	163	0	2	0	0	0	9	0	106	4	0	0	280	4	280
Subtotal	196	0	13	0	52	0	9	0	106	4	29	0	405	4	409
TOTAL	196		13		52		9		110		29				409

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Calumet County
(Population: 30,629)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	174	0	499	0	64	0	0	0	0	0	55	0	792	0	792
Other	9	0	0	0	0	0	0	0	0	0	0	0	9	0	9
Noncommunity systems	0	0	2	0	17	0	0	0	0	0	3	0	22	0	22
PRIVATE	358	0	362	0	0	0	13	5	393	16	2	0	1,130	21	1,150
Subtotal	541	0	863	0	81	0	13	5	393	16	60	0	1,950	21	
TOTAL	541		863		81		18		409		60				1,970

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Chippewa County
(Population: 50,992)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	323	0	796	0	146	0	0	0	0	0	316	0	1,580	0	1,580
Other	15	0	0	0	0	0	0	0	0	0	0	0	15	0	15
Noncommunity systems	0	0	3	0	29	0	0	0	0	0	7	0	39	0	39
PRIVATE	516	0	226	36	0	0	37	26	668	27	3	0	1,450	89	1,540
Subtotal	854	0	1,020	36	175	37	26	668	668	27	326	0	3,080	89	
TOTAL	854		1,060		175		63		695		326				3,170

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Clark County
(Population: 32,163)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	175	0	94	0	92	0	0	0	0	0	117	0	478	0	478
Other	20	0	0	0	0	0	0	0	0	0	0	0	20	0	20
Noncommunity systems	0	0	1	0	11	0	0	0	0	0	2	0	14	0	14
PRIVATE	396	0	163	0	0	0	0	0	875	34	0	0	1,430	34	1,460
Subtotal	591	0	258	0	103	0	0	0	875	34	119	0	1,950	34	
TOTAL	591		258		103		0		909		119				1,980

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Columbia County
(Population: 42,504)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	462	0	194	0	266	0	0	0	0	0	304	0	1,230	0	1,230
Other	35	0	0	0	1	0	0	0	0	0	4	0	40	0	40
Noncommunity systems	0	0	8	0	30	0	0	0	0	0	8	0	46	0	46
PRIVATE	307	0	238	0	0	0	209	11	505	18	14	0	1,270	29	1,300
Subtotal	804	0	440	0	297	0	209	11	505	18	330	0	2,590	29	
TOTAL	804		440		297		220		523		330				2,620

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Crawford County
(Population: 15,539)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	135	0	72	0	73	0	0	0	0	0	261	0	541	0	541
Other	6	0	0	0	1	0	0	0	0	0	2	0	9	0	9
Noncommunity systems	0	0	1	0	8	0	0	0	0	0	2	0	11	0	11
PRIVATE	137	0	171	0	0	0	0	0	331	12	0	0	639	12	651
Subtotal	278	0	244	0	82	0	0	0	331	12	265	0	1,200	12	
TOTAL	278		244		82		0		343		265				1,210

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Dane County
(Population: 323,499)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	6,090	0	1,630	0	2,480	0	0	0	0	0	4,170	0	14,400	0	14,400
Other	132	0	2	0	209	0	0	0	0	0	9	0	352	0	352
Noncommunity systems	0	0	31	0	69	0	0	0	0	0	12	0	112	0	112
PRIVATE															
Subtotal	7,190	0	4,180	0	2,760	0	341	67	1,030	38	4,900	0	20,400	105	5,660
TOTAL	7,190		4,180		2,760		408		1,068		4,900				20,500

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Dodge County
(Population: 74,257)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	625	0	594	0	226	0	0	0	0	0	519	0	1,960	0	1,960
Other	37	0	0	0	196	0	0	0	0	0	4	0	237	0	237
Noncommunity systems	0	0	10	0	31	0	0	0	0	0	10	0	51	0	51
PRIVATE	559	0	1,020	0	0	0	16	16	913	35	4	0	2,510	51	2,560
Subtotal	1,220	0	1,620	0	453	0	16	16	913	35	545	0	4,770	51	
TOTAL	1,220		1,620		453		32		948		545				4,820

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Door County
(Population: 24,567)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	173	0	213	0	112	0	0	0	0	0	190	0	688	0	688
Other	13	0	0	0	0	0	0	0	0	0	0	0	13	0	13
Noncommunity systems	0	0	16	0	82	0	0	0	0	0	18	0	116	0	116
PRIVATE	275	0	10	0	0	0	48	0	205	8	9	0	547	8	555
Subtotal	461	0	239	0	194	0	48	0	205	8	217	0	1,360	8	1,370
TOTAL	461		239		194		48		213		217				1,370

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Douglas County
(Population: 44,061)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	474	0	588	0	323	0	0	0	0	0	292	0	1,680	0	1,680
Other	8	0	0	0	18	0	0	0	0	0	0	0	26	0	26
Noncommunity systems	0	0	2	0	18	0	0	0	0	0	13	0	33	0	33
PRIVATE	253	0	51	0	0	0	0	0	46	2	1	0	351	2	353
Subtotal	735	0	641	0	359	0	0	0	46	2	306	0	2,090	2	
TOTAL	735		641		359		0		48		306				2,090

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Dunn County
(Population: 31,316)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	203	0	31	0	218	0	0	0	0	0	160	0	612	0	612
Other	23	0	0	0	0	0	0	0	0	0	0	0	23	0	23
Noncommunity systems	0	0	1	0	8	0	0	0	0	0	6	0	15	0	15
PRIVATE	296	0	42	0	0	0	1,150	17	607	24	19	0	2,110	41	2,150
Subtotal	522	0	74	226	226	0	1,150	17	607	24	185	0	2,760	41	
TOTAL	522		74		226		1,170		631		185				2,800

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Eau Claire County
(Population: 75,648)

Type of system	Water use, in millions of gallons														
	Residential		Industrial		Commercial		Irrigation		Stock		Other		Subtotal		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	1,120	0	1,620	0	509	0	0	0	0	0	926	0	4,170	0	4,170
Other	96	0	0	0	34	0	0	0	0	0	20	0	150	0	150
Noncommunity systems	0	0	5	0	14	0	0	0	0	0	7	0	26	0	26
PRIVATE	243	0	62	1,610	0	0	220	65	312	12	128	0	969	1,690	2,660
Subtotal	1,460	0	1,690	1,610	557	0	220	65	312	12	1,080	0	5,320	1,690	
TOTAL	1,460		3,300		557		285		324		1,080				7,010

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Florence County
(Population: 3,869)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	11	0	0	0	14	0	0	0	0	0	33	0	58	0	58
Noncommunity systems	0	0	0	0	8	0	0	0	0	0	1	0	9	0	9
PRIVATE	40	0	0	0	0	0	6	0	19	1	0	0	65	1	66
Subtotal	51	0	0	0	22	0	6	0	19	1	34	0	132	1	
TOTAL	51		0		22		6		20		34				133

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Fond du Lac County
(Population: 88,985)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	966	0	643	0	344	0	0	0	0	0	1,740	0	3,690	0	3,690
Other	44	0	0	0	12	0	0	0	0	0	5	0	61	0	61
Noncommunity systems	0	0	12	0	49	0	0	0	0	0	25	0	86	0	86
PRIVATE	630	0	720	0	27	0	16	0	706	27	8	0	2,110	27	2,140
Subtotal	1,640	0	1,380	0	432	0	16	0	706	27	1,780	0	5,950	27	5,980
TOTAL	1,640		1,380		432		16		733		1,780				5,980

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Forest County
(Population: 8,713)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	27	0	0	0	19	0	0	0	0	0	18	0	64	0	64
Other	30	0	2	0	10	0	0	0	0	0	26	0	68	0	68
Noncommunity systems	0	0	1	0	14	0	0	0	0	0	3	0	18	0	18
PRIVATE	89	0	0	0	0	0	6	2	26	1	0	0	121	3	124
Subtotal	146	0	3	0	43	0	6	2	26	1	47	0	271	3	274
TOTAL	146		3		43		8		27		47				274

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Grant County
(Population: 51,699)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	469	0	169	0	224	0	0	0	0	0	374	0	1,240	0	1,240
Other	43	0	0	0	2	0	0	0	0	0	5	0	50	0	50
Noncommunity systems	0	0	8	0	16	0	0	0	0	0	5	0	29	0	29
PRIVATE	367	0	293	0	0	0	70	0	1,250	42	19	0	2,000	42	2,040
Subtotal	879	0	470	0	242	0	70	0	1,250	42	403	0	3,320	42	
TOTAL	879		470		242		70		1,290		403				3,360

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Green County
(Population: 29,186)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	306	0	260	0	241	0	0	0	0	0	383	0	1,190	0	1,190
Other	3	0	0	0	11	0	0	0	0	0	0	0	14	0	14
Noncommunity systems	0	0	2	0	6	0	0	0	0	0	3	0	11	0	11
PRIVATE	209	0	43	0	0	0	250	45	768	27	1	0	1,270	72	1,340
Subtotal	518	0	305	0	258	0	250	45	768	27	387	0	2,490	72	
TOTAL	518		305		258		295		795		387				2,560

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Green Lake County
(Population: 17,701)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	162	0	210	0	93	0	0	0	0	0	82	0	547	0	547
Other	8	0	0	0	0	0	0	0	0	0	1	0	9	0	9
Noncommunity systems	0	0	4	0	33	0	0	0	0	0	2	0	39	0	39
PRIVATE	146	0	243	0	7	0	96	38	242	9	0	0	734	47	781
Subtotal	316	0	457	0	133	0	96	38	242	9	85	0	1,330	47	
TOTAL	316		457		133		134		251		85				1,380

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Iowa County
(Population: 19,880)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	161	0	44	0	31	0	0	0	0	0	288	0	524	0	524
Other	3	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Noncommunity systems	0	0	4	0	16	0	0	0	0	0	10	0	30	0	30
PRIVATE	179	0	44	0	0	0	1,180	1	641	25	4	0	2,050	26	2,080
Subtotal	343	0	92	0	47	0	1,180	1	641	25	302	0	2,610	26	26
TOTAL	343		92		47		1,180		666		302				2,640

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Iron County
(Population: 6,565)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	47	0	0	0	25	0	0	0	0	0	88	0	160	0	160
Other	11	0	5	0	4	0	0	0	0	0	10	0	30	0	30
Noncommunity systems	0	0	1	0	11	0	0	0	0	0	0	0	12	0	12
PRIVATE															
Subtotal	100	0	6	0	40	0	0	0	9	0	98	0	253	0	253
TOTAL	100		6		40		0		9		98				253

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Jackson County
(Population: 16,083)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	79	0	29	0	51	0	0	0	0	0	107	0	266	0	266
Other	17	0	0	0	12	0	0	0	0	0	4	0	33	0	33
Noncommunity systems	0	0	0	0	12	0	0	0	0	0	3	0	15	0	15
PRIVATE	174	0	529	0	0	0	17	2	287	11	0	0	1,010	13	1,020
Subtotal	270	0	558	0	75	0	17	2	287	11	114	0	1,320	13	
TOTAL	270		558		75		19		298		114				1,330

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Jefferson County
(Population: 64,291)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	807	0	1,100	0	405	0	0	0	0	0	546	0	2,860	0	2,860
Other	27	0	0	0	0	0	0	0	0	0	0	0	27	0	27
Noncommunity systems	0	0	5	0	52	0	0	0	0	0	0	0	57	0	57
PRIVATE															
Subtotal	385	0	1,210	0	0	0	236	0	432	16	583	0	2,850	16	2,870
	1,220	0	2,320	0	457	0	236	0	432	16	1,140	0	5,800	16	
TOTAL	1,220		2,320		457		236		448		1,140				5,820

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Juneau County
(Population: 19,384)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	140	0	29	0	110	0	0	0	0	0	177	0	456	0	456
Other	16	0	0	0	0	0	0	0	0	0	0	0	16	0	16
Noncommunity systems	0	0	2	0	26	0	0	0	0	0	3	0	31	0	31
PRIVATE	175	0	44	0	0	0	720	11	225	9	6	0	1,170	20	1,190
Subtotal	331	0	75	0	136	0	720	11	225	9	186	0	1,670	20	
TOTAL	331		75		136		731		234		186				1,690

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Kenosha County
(Population: 126,638)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		<u>TOTAL</u>
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	7	2,110	3	2,060	3	559	0	0	0	0	4	1,860	17	6,490	6,510
Other	184	0	43	0	38	0	0	0	0	0	32	0	297	0	297
Noncommunity systems	0	0	14	0	22	0	0	0	0	0	18	0	54	0	54
PRIVATE															
Subtotal	659	0	20	0	0	0	27	7	109	4	63	0	878	11	889
Subtotal	850	2,010	80	2,060	63	559	27	7	109	4	117	1,860	1,250	6,500	
TOTAL	2,860		2,140		622		34		113		1,980				7,750

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Kewaunee County
(Population: 19,704)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	117	0	56	0	48	0	0	0	0	0	89	0	310	0	310
Other	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Noncommunity systems	0	0	2	0	10	0	0	0	0	0	1	0	13	0	13
PRIVATE															
Subtotal	216	0	51	0	0	0	11	0	372	15	9	0	659	15	674
Subtotal	334	0	109	0	58	0	11	0	372	15	99	0	983	15	998
TOTAL	334		109		58		11		387		99				998

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

La Crosse County
(Population: 91,347)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	1,230	0	1,730	0	1,380	0	0	0	0	0	2,770	0	7,110	0	7,110
Other	83	0	0	0	6	0	0	0	0	0	24	0	113	0	113
Noncommunity systems	0	0	3	0	15	0	0	0	0	0	4	0	22	0	22
PRIVATE	405	0	959	0	19	0	57	0	287	11	405	0	2,130	11	2,140
Subtotal	1,720	0	2,690	0	1,420	0	57	0	287	11	3,210	0	9,380	11	
TOTAL	1,720		2,690		1,420		57		298		3,210				9,390

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Lafayette County
(Population: 18,320)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		<u>TOTAL</u>
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	127	0	30	0	42	0	0	0	0	0	247	0	446	0	446
Other	6	0	2	0	3	0	0	0	0	0	2	0	13	0	13
Noncommunity systems	0	0	1	0	8	0	0	0	0	0	3	0	12	0	12
PRIVATE															
Subtotal	181	0	17	0	0	0	30	0	776	28	0	0	1,000	28	1,030
	314	0	50	0	53	0	30	0	776	28	252	0	1,470	28	
TOTAL	314		50		53		30		804		252				1,500

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Langlade County
(Population: 19,797)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	143	0	101	0	59	0	0	0	0	0	160	0	463	0	463
Other	11	0	0	0	3	0	0	0	0	0	6	0	20	0	20
Noncommunity systems	0	0	1	0	13	0	0	0	0	0	2	0	16	0	16
PRIVATE	192	0	55	0	0	0	190	31	161	6	1,870	0	2,470	37	2,510
Subtotal	346	0	157	0	75	0	190	31	161	6	2,040	0	2,970	37	
TOTAL	346		157		75		221		167		2,040				3,010

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Lincoln County
(Population: 26,031)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	199	0	157	0	102	0	0	0	0	0	149	0	607	0	607
Other	6	0	0	0	0	0	0	0	0	0	0	0	6	0	6
Noncommunity systems	0	0	18	0	14	0	0	0	0	0	4	0	36	0	36
PRIVATE	229	0	26	3,540	0	0	1	2	147	6	0	0	403	3,550	3,950
Subtotal	434	0	201	3,540	116	0	1	2	147	6	153	0	1,050	3,550	
TOTAL	434		3,740		116		3		153		153				4,600

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Manitowoc County
(Population: 83,951)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	160	940	20	1,550	43	290	0	0	0	0	77	433	300	3,210	3,510
Other	10	0	0	0	0	0	0	0	0	0	0	0	10	0	10
Noncommunity systems	0	0	6	0	15	0	0	0	0	0	4	0	25	0	25
PRIVATE	496	0	153	0	0	0	38	28	580	24	15	0	1,280	52	1,330
Subtotal	666	940	179	1,550	58	290	38	28	580	24	96	433	1,620	3,260	
TOTAL	1,610		1,730		348		66		604		529				4,880

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Marathon County
(Population: 111,487)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	854	0	2,500	0	475	0	0	0	0	0	658	0	4,490	0	4,490
Other	133	0	88	0	88	0	0	0	0	0	22	0	331	0	331
Noncommunity systems	0	0	13	0	55	0	0	0	0	0	16	0	84	0	84
PRIVATE	962	0	428	11,000	0	0	87	36	1,070	43	66	0	2,610	11,100	13,700
Subtotal	1,950	0	3,030	11,000	618	0	87	36	1,070	43	762	0	7,520	11,100	
TOTAL	1,950		14,000		618		123		1,110		762				18,600

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Marinette County
(Population: 38,392)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	111	216	55	585	44	83	0	0	0	0	214	94	424	978	1,400
Other	12	0	11	0	1	0	0	0	0	0	19	0	43	0	43
Noncommunity systems	0	0	3	0	33	0	0	0	0	0	6	0	42	0	42
PRIVATE	318	0	0	10,500	0	0	49	4	189	7	5	0	561	10,500	11,100
Subtotal	441	216	69	11,100	78	83	49	4	189	7	244	94	1,070	11,500	
TOTAL	657		11,200		161		53		196		338				12,600

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Marquette County
(Population: 10,334)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	25	0	1	0	14	0	0	0	0	0	9	0	49	0	49
Other	5	0	0	0	0	0	0	0	0	0	0	0	5	0	5
Noncommunity systems	0	0	10	0	46	0	0	0	0	0	7	0	63	0	63
PRIVATE	161	0	102	0	0	0	234	6	134	5	272	0	903	11	914
Subtotal	191	0	113	0	60	0	234	6	134	5	288	0	1,020	11	
TOTAL	191		113		60		240		139		288				1,030

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Menominee County
(Population: 3,140)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	11	0	0	0	13	0	0	0	0	86	0	110	0	110	0
Noncommunity systems	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRIVATE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	11	0	0	0	13	0	0	0	0	86	0	110	0	110	0
TOTAL	11		0		13		0		0	86				110	

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

 Milwaukee County
 (Population: 953,127)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	76	20,800	45	22,500	22	11,100	0	0	0	0	42	7,930	185	62,300	62,500
Other	217	0	0	0	0	0	0	0	0	0	0	0	217	0	217
Noncommunity systems	0	0	20	0	25	0	0	0	0	0	30	0	75	0	75
PRIVATE	590	0	2,310	621	23	0	60	23	4	0	248	0	3,240	644	3,880
Subtotal	883	20,800	2,380	23,100	70	11,100	60	23	4	0	320	7,930	3,720	62,900	
TOTAL	21,700		25,500		11,200		83		4		8,250				66,700

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Monroe County
(Population: 34,350)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	269	0	331	0	151	0	0	0	0	0	330	0	1,080	0	1,080
Other	47	0	0	0	0	0	0	0	0	0	0	0	47	0	47
Noncommunity systems	0	0	2	0	33	0	0	0	0	0	5	0	40	0	40
PRIVATE	281	0	38	0	0	0	24	17	517	20	42	0	902	37	939
Subtotal	597	0	371	0	184	0	24	17	517	20	377	0	2,070	37	
TOTAL	597		371		184		41		537		377				2,110

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Oconto County
(Population: 28,873)

Type of system	Water use, in millions of gallons															
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL	
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW		
PUBLIC																
Community systems																
Municipal	149	0	209	0	56	0	0	0	0	0	150	0	564	0	564	0
Other	10	0	0	0	0	0	0	0	0	0	0	0	10	0	10	0
Noncommunity systems	0	0	3	0	35	0	0	0	0	0	7	0	45	0	45	0
PRIVATE	337	0	12	1,610	0	0	53	0	399	16	1	0	802	1,630	802	1,630
Subtotal	496	0	224	1,610	91	0	53	0	399	16	158	0	1,420	1,630	1,420	1,630
TOTAL	496		1,830		91		53		415		158				3,050	

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Oneida County
(Population: 30,379)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	145	0	190	0	120	0	0	0	0	0	301	0	756	0	756
Other	52	0	0	0	56	0	0	0	0	0	74	0	182	0	182
Noncommunity systems	0	0	2	0	58	0	0	0	0	0	19	0	79	0	79
PRIVATE	326	0	0	9,530	0	0	8	33	8	0	0	0	342	9,560	9,900
Subtotal	523	0	192	9,530	234	0	8	33	8	0	394	0	1,360	9,560	
TOTAL	523		9,720		234		41		8		394				10,900

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Outagamie County
(Population: 132,016)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	610	1,110	405	974	158	395	0	0	0	0	373	504	1,550	2,980	4,530
Other	67	0	8	0	83	0	0	0	0	0	2	0	160	0	160
Noncommunity systems	0	0	10	0	15	0	0	0	0	0	10	0	35	0	35
PRIVATE	652	0	812	25,100	0	0	51	0	639	25	33	0	2,190	25,100	27,300
Subtotal	1,330	1,110	1,240	26,100	256	395	51	0	639	25	418	504	3,940	28,100	
TOTAL	2,440		27,300		651		51		664		922				32,000

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Ozaukee County
(Population: 70,833)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	513	180	572	102	133	46	0	0	0	0	222	88	1,440	416	1,860
Other	165	0	0	0	2	0	0	0	0	0	6	0	173	0	173
Noncommunity systems	0	0	16	0	18	0	0	0	0	0	26	0	60	0	60
PRIVATE															
Subtotal	545	0	9	0	0	0	14	15	144	5	49	0	761	20	781
Subtotal	1,220	180	597	102	153	46	14	15	144	5	303	88	2,430	436	
TOTAL	1,400		699		199		29		149		391				2,870

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Pepin County
(Population: 7,621)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	43	0	19	0	20	0	0	0	0	0	39	0	121	0	121
Other	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Noncommunity systems	0	0	0	0	3	0	0	0	0	0	0	0	3	0	3
PRIVATE															
Subtotal	85	0	0	0	0	0	48	2	175	6	0	0	308	8	316
Subtotal	129	0	19	0	23	0	48	2	175	6	39	0	433	8	
TOTAL	129		19		23		50		181		39				441

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Pierce County
(Population: 29,881)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	257	0	0	0	114	0	0	0	0	0	235	0	606	0	606
Other	19	0	0	0	0	0	0	0	0	0	0	0	19	0	19
Noncommunity systems	0	0	1	0	10	0	0	0	0	0	2	0	13	0	13
PRIVATE															
Subtotal	242	0	178	0	0	0	25	3	420	17	0	0	865	20	885
	518	0	179	0	124	0	25	3	420	17	237	0	1,500	20	
TOTAL	518		179		124		28		437		237				1,520

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Polk County
(Population: 30,997)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	166	0	285	0	115	0	0	0	0	0	205	0	771	0	771
Other	2	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Noncommunity systems	0	0	1	0	12	0	0	0	0	0	8	0	21	0	21
PRIVATE	255	0	164	0	0	0	11	26	488	19	1,160	0	2,070	45	2,120
Subtotal	423	0	450	0	127	0	11	26	488	19	1,370	0	2,860	45	
TOTAL	423		450		127		37		507		1,370				2,910

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Portage County
(Population: 56,587)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	461	0	217	0	322	0	0	0	0	0	650	0	1,650	0	1,650
Other	36	0	0	0	0	0	0	0	0	0	0	0	36	0	36
Noncommunity systems	0	0	0	0	10	0	0	0	0	0	8	0	18	0	18
PRIVATE	507	0	2,350	986	0	0	10,000	45	259	10	33	0	13,200	1,040	14,200
Subtotal	1,000	0	2,570	986	332	0	10,000	45	259	10	691	0	14,900	1,040	
TOTAL	1,000		3,550		332		10,000		269		691				15,900

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Price County
(Population: 15,326)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	84	0	115	0	52	0	0	0	0	0	78	0	329	0	329
Other	2	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Noncommunity systems	0	0	1	0	12	0	0	0	0	0	2	0	15	0	15
PRIVATE	181	0	2	3,250	0	0	0	6	127	5	0	0	310	3,260	3,570
Subtotal	267	0	118	3,250	64	0	0	6	127	5	80	0	656	3,260	
TOTAL	267		3,370		64		6		132		80				3,920

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Racine County
(Population: 179,502)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	278	2,310	304	3,290	142	1,000	0	0	0	0	176	1,600	900	8,210	9,110
Other	296	0	28	0	24	0	0	0	0	0	33	0	381	0	381
Noncommunity systems	0	0	22	0	33	0	0	0	0	0	25	0	80	0	80
PRIVATE	954	0	161	0	6	0	190	17	125	4	7	0	1,440	21	1,460
Subtotal	1,530	2,310	115	3,290	205	1,000	190	17	125	4	241	1,600	2,800	8,230	
TOTAL	3,840		3,800		1,200		207		129		1,840				11,000

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Richland County
(Population: 16,877)

Type of system	Water use, in millions of gallons												TOTAL				
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>			<u>Subtotal</u>			
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW		GW	SW		
PUBLIC																	
Community systems																	
Municipal	109	0	33	0	61	0	0	0	0	0	88	0	291	0	0	291	
Other	12	0	0	0	2	0	0	0	0	0	3	0	17	0	0	17	
Noncommunity systems	0	0	4	0	12	0	0	0	0	0	5	0	21	0	0	21	
PRIVATE																	
Subtotal	193	0	187	0	0	0	166	4	430	16	0	0	976	20	20	996	
	314	0	224	0	75	0	166	4	430	16	96	0	1,300	20	20		
TOTAL																	
	314		224		75		170		446		96					1,320	

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Rock County
(Population: 139,771)

Type of system	Water use, in millions of gallons															
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL	
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW		
PUBLIC																
Community systems																
Municipal	2,680	0	1,360	0	1,190	0	0	0	0	0	2,190	0	7,420	0	7,420	
Other	35	0	0	0	0	0	0	0	0	0	0	0	35	0	35	
Noncommunity systems	0	0	21	0	46	0	0	0	0	0	28	0	95	0	95	
PRIVATE	646	0	671	0	15	0	772	39	505	18	28	0	2,640	57	2,700	
Subtotal	3,360	0	2,050	0	1,250	0	772	39	505	18	2,250	0	10,200	57		
TOTAL	3,360		2,050		1,250		811		523		2,250				10,300	

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Rusk County
(Population: 15,047)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	89	0	18	0	60	0	0	0	0	0	70	0	237	0	237
Other	3	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Noncommunity systems	0	0	8	0	6	0	0	0	0	0	3	0	17	0	17
PRIVATE	171	0	25	511	0	0	80	14	248	10	2	0	526	535	1,060
Subtotal	263	0	51	511	66	0	80	14	248	10	75	0	783	535	
TOTAL	263		562		66		94		258		75				1,320

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

St. Croix County
(Population: 43,091)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	314	0	126	0	178	0	0	0	0	0	207	0	825	0	825
Other	26	0	0	0	0	0	0	0	0	0	0	0	26	0	26
Noncommunity systems	0	0	14	0	34	0	0	0	0	0	9	0	57	0	57
PRIVATE	416	0	191	0	0	0	205	1	532	22	1	0	1,340	23	1,360
Subtotal	756	0	331	0	212	0	205	1	532	22	217	0	2,250	23	
TOTAL	756		331		212		206		554		217				2,270

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Sauk County
(Population: 41,743)

Type of system	Water use, in millions of gallons															
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		<u>TOTAL</u>	
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW		
PUBLIC																
Community systems																
Municipal	406	0	310	0	242	0	0	0	0	0	248	0	1,210	0	1,210	0
Other	26	0	0	0	0	0	0	0	0	0	0	0	26	0	26	0
Noncommunity systems	0	0	43	0	96	0	0	0	0	0	26	0	165	0	165	0
PRIVATE	318	0	162	0	31	0	1,140	7	651	24	120	0	2,420	31	2,450	31
Subtotal	750	0	515	0	369	0	1,140	7	651	24	394	0	3,820	31	3,850	31
TOTAL	750		515		369		1,150		675		394				3,850	

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Sawyer County
(Population: 11,421)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	28	0	3	0	45	0	0	0	0	0	39	0	115	0	115
Other	5	0	0	0	0	0	0	0	0	0	0	0	5	0	5
Noncommunity systems	0	0	4	0	76	0	0	0	0	0	0	0	80	0	80
PRIVATE	161	0	0	0	0	0	20	3	52	2	0	0	233	5	238
Subtotal	194	0	7	0	121	0	20	3	52	2	39	0	433	5	
TOTAL	194		7		121		23		54		39				438

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Shawano County
(Population: 35,374)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	190	0	151	0	182	0	0	0	0	0	190	0	713	0	713
Other	94	0	5	0	15	0	0	0	0	0	20	0	134	0	134
Noncommunity systems	0	0	7	0	29	0	0	0	0	0	2	0	38	0	38
PRIVATE	328	0	269	402	0	0	2	2	609	24	1	0	1,210	428	1,640
Subtotal	612	0	432	402	226	0	2	2	609	24	212	0	2,090	428	
TOTAL	612		834		226		4		633		212				2,520

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Sheboygan County
(Population: 100,912)

Type of system	Water use, in millions of gallons															
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL	
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW		
PUBLIC																
Community systems																
Municipal	250	1,190	510	2,110	118	410	0	0	0	0	185	753	1,060	4,460	5,530	
Other	16	0	0	0	56	0	0	0	0	0	0	0	72	0	72	
Noncommunity systems																
PRIVATE	0	0	15	0	25	0	0	0	0	0	16	0	56	0	56	
	550	0	551	0	7	0	6	3	416	17	82	0	1,610	20	1,630	
Subtotal	816	1,190	1,080	2,110	206	410	6	3	416	17	283	753	2,800	4,480		
TOTAL	2,010		3,190		616		9		433		1,040				7,290	

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Taylor County
(Population: 19,152)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	82	0	59	0	23	0	0	0	0	0	75	0	239	0	239
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Noncommunity systems	0	0	2	0	10	0	0	0	0	0	5	0	17	0	17
PRIVATE															
Subtotal	250	0	3	0	0	0	0	0	395	15	0	0	648	15	663
Subtotal	332	0	64	0	33	0	0	0	395	15	80	0	904	15	919
TOTAL	332		64		33		0		410		80				919

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Trempealeau County
(Population: 25,591)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	176	0	166	0	93	0	0	0	0	0	170	0	605	0	605
Other	8	0	0	0	0	0	0	0	0	0	0	0	8	0	8
Noncommunity systems	0	0	0	0	11	0	0	0	0	0	4	0	15	0	15
PRIVATE															
Subtotal	240	0	500	0	0	0	285	25	533	21	8	0	1,570	46	1,610
Subtotal	424	0	666	0	104	0	285	25	533	21	182	0	2,200	46	2,240
TOTAL	424		666		104		310		554		182				2,240

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Vernon County
(Population: 25,233)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	167	0	74	0	97	0	0	0	0	0	139	0	477	0	477
Other	8	0	0	0	8	0	0	0	0	0	0	0	16	0	16
Noncommunity systems	0	0	0	0	9	0	0	0	0	0	7	0	16	0	16
PRIVATE	250	0	20	0	0	0	0	0	641	25	290	0	1,200	25	1,220
Subtotal	425	0	94	0	114	0	0	0	641	25	436	0	1,710	25	
TOTAL	425		94		114		0		666		436				1,730

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Vilas County
(Population: 15,504)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	22	0	0	0	64	0	0	0	0	0	40	0	126	0	126
Other	27	0	0	0	2	0	0	0	0	0	10	0	39	0	39
Noncommunity systems	0	0	9	0	90	0	0	0	0	0	18	0	117	0	117
PRIVATE	240	0	0	0	0	0	12	7	3	0	2	0	257	7	264
Subtotal	289	0	9	0	156	0	12	7	3	0	70	0	526	7	546
TOTAL	289		9		156		19		3		70				546

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Walworth County
(Population: 69,870)

Type of system	Water use, in millions of gallons														
	Residential		Industrial		Commercial		Irrigation		Stock		Other		Subtotal		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	655	0	504	0	483	0	0	0	0	0	623	0	2,260	0	2,260
Other	61	0	0	0	24	0	0	0	0	0	1	0	86	0	86
Noncommunity systems	0	0	17	0	43	0	0	0	0	0	16	0	76	0	76
PRIVATE															
Subtotal	1,240	0	767	0	550	0	293	11	293	11	706	0	3,600	52	1,230
TOTAL	1,240		767		550		304		304		706				3,650

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Washburn County
(Population: 12,660)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		<u>TOTAL</u>
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	74	0	11	0	42	0	0	0	0	0	138	0	265	0	265
Other	2	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Noncommunity systems	0	0	2	0	15	0	0	0	0	0	5	0	22	0	22
PRIVATE															
Subtotal	146	0	16	0	0	0	11	4	99	4	0	0	272	8	280
Subtotal	222	0	29	0	57	0	11	4	99	4	143	0	561	8	569
TOTAL	222		29		57		15		103		143				569

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Washington County
(Population: 86,163)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	789	0	891	0	288	0	0	0	0	0	435	0	2,400	0	2,400
Other	21	0	0	0	0	0	0	0	0	0	0	0	21	0	21
Noncommunity systems	0	0	13	0	31	0	0	0	0	0	30	0	74	0	74
PRIVATE	785	0	65	36	0	0	6	6	292	11	52	0	1,190	53	1,240
Subtotal	1,600	0	969	36	319	0	6	6	292	11	517	0	3,680	53	
TOTAL	1,600		1,000		319		6		303		517				3,740

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Waukesha County
(Population: 293,779)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	2,610	0	2,260	0	900	0	0	0	0	0	1,380	0	7,150	0	7,150
Other	214	0	5	0	28	0	0	0	0	0	15	0	262	0	262
Noncommunity systems	0	0	53	0	60	0	0	0	0	0	100	0	213	0	213
PRIVATE	2,740	0	1,150	0	31	0	304	0	156	6	174	0	4,560	6	4,570
Subtotal	5,560	0	3,470	0	1,020	0	304	0	156	6	1,670	0	12,200	6	12,200
TOTAL	5,560		3,470		1,020		340		162		1,670				12,200

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Maupaca County
(Population: 41,969)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		<u>TOTAL</u>
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	357	0	1,080	0	197	0	0	0	0	0	218	0	1,850	0	1,850
Other	41	0	0	0	28	0	0	0	0	0	0	0	69	0	69
Noncommunity systems	0	0	3	0	56	0	0	0	0	0	9	0	68	0	68
PRIVATE	350	0	180	0	0	0	502	14	462	18	0	0	1,490	32	1,520
Subtotal	748	0	1,260	0	281	0	502	14	462	18	227	0	3,480	32	
TOTAL	748		1,260		281		516		480		227				3,510

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Waushara County
(Population: 17,009)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	58	0	8	0	11	0	0	0	0	0	25	0	102	0	102
Other	13	0	0	0	0	0	0	0	0	0	0	0	13	0	13
Noncommunity systems	0	0	2	0	10	0	0	0	0	0	12	0	24	0	24
PRIVATE	256	0	5	0	0	0	5,340	0	174	7	763	0	6,540	7	6,550
Subtotal	327	0	15	0	21	0	5,340	0	174	7	800	0	6,680	7	
TOTAL	327		15		21		5,340		181		800				6,690

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Winnebago County
(Population: 133,770)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	74	1,660	13	2,190	31	452	0	0	0	0	33	1,340	151	5,640	5,790
Other	219	0	58	0	323	0	0	0	0	0	69	0	669	0	669
Noncommunity systems	0	0	5	0	19	0	0	0	0	0	8	0	32	0	32
PRIVATE															
Subtotal	477	0	1,050	4,340	16	0	17	30	328	13	1	0	1,890	4,380	6,270
Subtotal	770	1,660	1,130	6,530	389	452	17	30	328	13	111	1,340	2,740	10,000	
TOTAL	2,430		7,660		841		47		341		1,450				12,800

Table 2.--Total 1979 withdrawal water use excluding thermoelectric use

Wood County
(Population: 72,052)

Type of system	Water use, in millions of gallons														
	<u>Residential</u>		<u>Industrial</u>		<u>Commercial</u>		<u>Irrigation</u>		<u>Stock</u>		<u>Other</u>		<u>Subtotal</u>		TOTAL
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW	
PUBLIC															
Community systems															
Municipal	702	0	587	0	399	0	0	0	0	0	537	0	2,220	0	2,200
Other	8	0	0	0	0	0	0	0	0	0	0	0	8	0	8
Noncommunity systems	0	0	5	0	40	0	0	0	0	0	12	0	57	0	57
PRIVATE	532	0	388	32,700	0	0	83	83	346	14	49	0	1,400	32,800	34,200
Subtotal	1,240	0	980	32,700	439	0	83	83	346	14	598	0	3,690	32,800	
TOTAL	1,240		33,700		439		166		360		598				36,500

Table 3.--1979 hydroelectric power water use

County	Name of plant	River	Flow capacity at normal head (ft ³ /s)	Power generation (Mwh)	Water use (flow through turbines)	
					Cubic feet per second (average)	Billions of gallons
Adams	Castle Rock	Wisconsin	7,800	115,000	7,420	1,750
Ashland	White River	White	680	5,070	350	83
Barron	Barron	Yellow	315	345	60	14
Bayfield	Oriente Falls	Iron	530	2,660	214	50
Burnett	Clam River Dam	Clam	544	4,850	447	105
Burnett	Danbury	Yellow	599	4,350	280	66
Chippewa	Chippewa Falls	Chippewa	12,000	76,400	4,930	1,160
Chippewa	Cornell	Chippewa	12,000	98,800	5,030	1,190
Chippewa	Holcombe	Chippewa	11,500	106,000	4,880	1,150
Chippewa	Jim Falls	Chippewa	4,400	73,700	2,620	617
Chippewa	Wissota	Chippewa	10,800	156,000	5,540	1,310
Columbia	Kilbourne	Wisconsin	5,690	70,000	5,640	1,330
Columbia	Pardeeville	Fox	580	82	10	2
Douglas	Gordon	Eau Claire	156	953	79	19

Table 3.--1979 hydroelectric power water use--Continued

County	Name of plant	River	Flow capacity at normal head (ft ³ /s)	Power generation (Mwh)	Water use (flow through turbines)	
					Cubic feet per second (average)	Billions of gallons
Dunn	Cedar Falls	Red Cedar	1,920	36,400	1,350	319
Dunn	Menomonie	Red Cedar	2,450	26,300	1,620	382
Eau Claire	Eau Claire Dells	Chippewa	6,160	44,100	3,320	784
Florence	Pine	Pine	624	21,900	450	106
Jackson	Black River Falls	Black	852	4,040	435	103
Jackson	Hatfield	Black	808	25,200	492	116
Jackson	Merrillan	Halls Creek	350	309	37	8
Juneau	Petenwell	Wisconsin	6,800	122,000	5,620	1,330
Lafayette	Argyle	Pecatonica	280	117	12	3
Lincoln	Alexander	Wisconsin	3,040	26,000	2,190	517
Lincoln	Grandfather Falls	Wisconsin	3,020	117,000	2,380	562
Lincoln	Jersey	Tomahawk	569	3,100	399	94
Lincoln	Merrill	Wisconsin	1,000	5,340	738	174

Table 3.--1979 hydroelectric power water use--Continued

County	Name of plant	River	Flow capacity at normal head (ft ³ /s)	Power generation (Mwh)	Water use	
					(Flow through turbines) Cubic feet per second (average)	Billions of gallons
Lincoln	Tomahawk	Wisconsin	2,890	12,900	1,660	392
Marathon	Wausau	Peshigo	3,210	35,400	2,450	578
Marinette	Caldron Falls	Peshigo	1,300	21,900	529	125
Marinette	High Falls	Peshigo	1,380	24,000	546	129
Marinette	Johnson Falls	Peshigo	1,300	16,000	737	174
Marinette	Peshigo	Peshigo	740	3,600	536	126
Marinette	Potato Rapids	Peshigo	1,370	5,850	666	157
Marinette	Sandstone Rapids	Peshigo	1,300	17,600	811	191
Marquette	Lawrence	Lawrence	150	202	25	6
Marquette	Westfield	Westfield	100	0	0	0
Oconto	Oconto Falls	Oconto	1,070	8,620	596	141
Oneida	Hat Rapids	Wisconsin	1,140	2,470	228	54
Outagamie	Appleton	Fox	1,980	9,590	1,160	274

Table 3.--1979 hydroelectric power water use--Continued

County	Name of plant	River	Flow capacity at normal head (ft ³ /s)	Power generation (Mwh)	Water use (flow through turbines)	
					Cubic feet per second (average)	Billions of gallons
Outagamie	Badger	Fox	4,000	36,300	3,050	720
Outagamie	City Plant	Fox	3,200	31,600	2,780	656
Outagamie	Little Chute	Fox	4,000	22,100	3,010	710
Outagamie	Rapid Croche	Fox	4,000	13,800	3,140	741
Pierce	Junction	Kinnickinnic	74	1,340	54	13
Pierce	Powell Falls	Kinnickinnic	99	468	50	12
Polk	Apple River	Apple	602	17,300	40	95
Polk	Balsam Lake	Balsam Branch	34	179	10	2.4
Polk	Clam Falls	Clam	93	445	29	6.8
Polk	St. Croix Falls	St. Croix	6,550	114,000	3,730	880
Portage	Du Bay	Wisconsin	4,110	48,000	3,710	876
Portage	Stevens Point	Wisconsin	3,560	29,000	3,120	736
Portage	Wisconsin River Division	Wisconsin	762	7,000	645	152

Table 3.--1979 hydroelectric power water use--Continued

County	Name of plant	River	Flow capacity at normal head (ft ³ /s)	Power generation (Mwh)	Water use (flow through turbines)	
					Cubic feet per second (average)	Billions of gallons
Rock	Blackhawk	Rock	704	3,320	713	168
Rock	Janesville	Rock	926	1,710	368	87
Rusk	Big Falls	Flambeau	2,500	42,300	1,950	460
Rusk	Ladysmith	Flambeau	1,510	10,800	1,230	290
Rusk	Thornapple	Flambeau	1,730	9,730	1,390	328
St. Croix	Riverdale	Apple	362	3,580	302	71
Sauk	Prairie du Sac	Wisconsin	11,900	164,000	7,930	1,870
Sawyer	Arpin	Chippewa	1,110	9,060	674	159
Sawyer	East Fork	Chippewa	379	1,930	152	36
Sawyer	Hayward	Namekagon	165	1,520	173	41
Sawyer	Radisson	Couderay	536	1,420	138	33
Shawano	Gresham	Red	450	4,432	120	28
Shawano	Shawano	Wolf	680	4,710	477	112

Table 3.--1979 hydroelectric power water use--Continued

County	Name of plant	River	Flow capacity at normal head (ft ³ /s)	Power generation (Mwh)	Water use	
					(flow through turbines) Cubic feet per second (average)	Billions of gallons
Vilas	Otter Rapids	Wisconsin	897	2,510	373	88
Washburn	Nancy Dam	Totogatic	348	1,610	169	40
Washburn	Trego	Namekagon	667	7,680	495	117
Maupaca	Weyauwega	Maupaca	600	855	127	30
Maupaca	Biron	Wisconsin	2,290	22,700	1,830	432
Wood	Wisconsin Rapids	Wisconsin	2,100	30,700	1,800	425

Table 4.--1979 thermoelectric power water use

County	Name of plant	Source of water	Power generation (Mwh)	Water use in millions of gallons	
				Ground water	Surface water
Ashland	Bay Front	Lake Superior	163,000	0	8,600
Brown	Pulliam	Fox River	1,830,000	0	115,000
Buffalo	Alma	Mississippi River and ground water	848,000	133	52,600
Columbia	Columbia	Wisconsin River and ground water	5,200,000	180	1,180
Dane	Blount Street	Lake Monona	509,000	0	28,400
Douglas	Winslow	Lake Superior	34,200	0	6,790
Grant	Nelson Dewey	Mississippi River and ground water	1,180,000	27	43,800
Grant	E. J. Stoneman	Mississippi River	169,000	0	40,900
Kewaunee	Kewaunee	Lake Michigan and ground water	3,440,000	2	188,000
LaCrosse	French Island	Mississippi River	209	0	5,510
Manitowoc	Manitowoc	Lake Michigan	70,000	0	9,780
Manitowoc	Point Beach	Lake Michigan	6,763,000	0	337,000

Table 4.--1979 thermoelectric power water use--Continued

County	Name of plant	Source of water	Power generation (Mwh)	Water use in millions of gallons	
				Ground water	Surface water
Marathon	Weston	Wisconsin River	665,000	0	22,300
Milwaukee	Commerce Street	Millwaukee River	123,000	0	18,700
Milwaukee	Lakeside	Lake Michigan	592,000	0	59,900
Milwaukee	Oak Creek	Lake Michigan	5,734,000	0	398,000
Milwaukee	Valley	Menomonee River	1,020,000	0	33,200
Milwaukee	Wells	Millwaukee River	4,490	0	1,550
Ozaukee	Port Washington	Lake Michigan	1,430,000	0	152,000
Richland	Richland Center	Pine River	28,600	0	4,200
Rock	Blackhawk	Rock River and ground water	108,000	35	11,300
Rock	Rock River	Rock River	471,000	0	30,500
Sheboygan	Edgewater	Lake Michigan	2,250,000	0	50,700
Vernon	Genoa	Mississippi River and ground water	2,810,000	62	60,600
Winnebago	Menasha	Lake Winnebago	60,200	0	2,620
Wood	Marshfield	City Pond	95,500	0	14,600

Table 5.--1979 Water Use Summary for Wisconsin, in millions of gallons

Type of system	Residential		Industrial		Commercial		Irrigation		Stock	
	GW	SW	GW	SW	GW	SW	GW	SW	GW	SW
PUBLIC Community systems										
Municipal	30,600	32,100	25,000	37,700	15,200	15,400	0	0	0	0
Other	2,910	0	143	0	1,190	0	0	0	0	0
Noncommunity systems	0	0	508	0	1,870	0	0	0	0	0
PRIVATE	26,600	0	23,000	128,800	224	0	29,600	1,030	26,700	1,020
Subtotal	60,100	32,100	48,600	166,500	18,500	15,400	29,600	1,030	26,700	1,020
TOTAL	92,200		215,100		33,900		30,600		27,700	

Type of system	Thermoelectric power		Hydroelectric power	Other		Total		
	GW	SW	SW	GW	SW	GW	SW	All
PUBLIC Community systems								
Municipal	0	31,200	3,010,000	26,600	15,700	97,400	3,142,000	3,239,000
Other	195	154,000	0	671	0	5,100	154,000	159,100
Noncommunity systems	0	0	0	691	0	3,070	0	3,070
PRIVATE	244	1,513,000	23,100,000	8,550	0	114,900	24,740,000	24,850,000
Subtotal	439	1,698,000	26,110,000	36,500	15,700	220,400	28,040,000	28,260,000
TOTAL	1,698,000		26,110,000	52,200				

Note: Because of rounding, totals do not necessarily equal the sum of parts.