MASTER

Iowa

Resource Assessment

U.S. Hydropower

U.S. Hydropower Resource Assessment for Iowa

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Published December 1995

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**Prepared for the
U.S. Department of Energy
Assistant Secretary for Energy Efficiency and Renewable Energy
Under DOE Idaho Operations Office
Contract DE-AC07-94ID13223**

ACKNOWLEDGMENTS

The author thanks Peggy A.M. Brookshier, John V. Flynn and Jim Alexander of the Department of Energy, and Ward Lenz of the State of Iowa for their active participation and timely comments.

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ABSTRACT

The Department of Energy is developing an estimate of the undeveloped hydropower potential in this country. The Hydropower Evaluation Software is a computer model that was developed by the Idaho National Engineering Laboratory for this purpose. The software measures the undeveloped hydropower resources available in the United States, using uniform criteria for measurement. The software was developed and tested using hydropower information and data provided by the Southwestern Power Administration. It is a menu-driven software program that allows the personal computer user to assign environmental attributes to potential hydropower sites, calculate development suitability factors for each site based on the environmental attributes present, and generate reports based on these suitability factors. This report details the resource assessment results for the State of Iowa.

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U.S. Hydropower Resource Assessment for Iowa

INTRODUCTION

In June 1989, the U.S. Department of Energy initiated the development of a National Energy Strategy to identify the energy resources available to support the expanding demand for energy in the United States. Public hearings conducted as part of the strategy development process indicated that undeveloped hydropower resources were not well defined. As a result, the Department of Energy established an interagency Hydropower Resource Assessment Team to ascertain the undeveloped hydropower potential. In connection with these efforts by the Department of Energy, the Idaho National Engineering Laboratory designed the Hydropower Evaluation Software (HES), which is being used to perform a resource assessment of the undeveloped conventional hydropower potential in the United States. This report presents the results of the hydropower resource assessment for the State of Iowa. Undeveloped pumped storage hydropower potential is not included.

The HES was developed as a tool to measure undeveloped hydropower potential regionally or by state. The software is not intended to provide precise development factors for individual sites, but to provide regional or state totals. Because the software was developed as a generic measurement tool encompassing national issues, regional and state totals must be considered judiciously; various local issues may skew undeveloped hydropower potential totals. The information for the resource assessment was compiled from the Federal Energy Regulatory Commission's Hydroelectric Power Resources Assessment database and several other sources. Refer to DOE/ID-10338, the *User's Manual* (Francfort, Matthews, and Rinehart 1991) for the specifics of the software and to DOE/ID-10430, the *Status Report* (Francfort, Moore, and Rinehart 1993) for an overview of all resource assessment activities to date.

Model Development

Hydropower Evaluation Software, both a probability-factor computer model and a database, is a menu-driven software program that is intended to be user-friendly. Computer screens and report generation capabilities were developed to meet the needs of users nationwide. The software uses environmental attribute data to generate an overall project environmental suitability factor (PESF) between 0.1 and 0.9, where 0.9 indicates the highest likelihood of development and 0.1 indicates the lowest likelihood of development. The suitability factors are dependant on the unique environmental attributes of each potential site. They reflect the considerations that (a) environmental concerns can make a potential site unacceptable, prohibiting its development (for a suitability factor of 0.1), or (b) if there are no environmental concerns, there is no effect on the likelihood of site development (for a suitability factor of 0.9). A combination of attributes can result in a lower suitability factor because multiple environmental considerations would reduce the likelihood that a site may be developed to its physical potential.

Model Goal

The goal of the HES is to assemble an accurate resource database of all sites with undeveloped hydropower potential in the United States for use as a planning tool to determine the viable national hydropower potential. Undeveloped hydropower potential is not limited to the development of new sites; it also includes the development of additional hydropower-generating capacity at sites that currently have hydropower but are not developed to their full potential. This undeveloped hydropower potential is a source of nonpolluting, renewable energy available to meet the growing power needs of the United States. The HES

should help make this goal obtainable and ensure a set of uniform criteria for national assessment.

Dam Status

The effects of environmental attributes vary by dam status. The dam status classifications used are

- W = Developed hydropower site with current power generation, but the total hydropower potential has not been fully developed. Only the undeveloped hydropower potential is discussed in this report.
- W/O = Developed site without current power generation. The site has some type of developed impoundment or diversion structure, but no developed hydropower generating capability.
- U = Undeveloped site. The site does not have power generation capability nor a developed impoundment or diversion structure.

ASSESSMENT RESULTS

Summary Results

A total of 79 sites (Table 1) have been identified and assessed for their undeveloped hydropower potential. The HES results for individual

site capacities range from 49 kilowatts to 52 megawatts. Most of the sites have potential capacities of under 5 megawatts (Figure 1).

The nonmodeled undeveloped hydropower potential total for Iowa was identified as 455 megawatts. The HES results lowers this estimate about 33% to 305 megawatts. The greatest reduction in undeveloped hydropower potential occurs at sites with some type of power production already present. These developed sites have an HES-modeled additional undeveloped hydropower potential of 60.7 megawatts, a 47% reduction in the estimated undeveloped hydropower potential (Figure 2). The number of sites does not change, only the identified undeveloped hydropower potential is reassessed (Figure 3).

The 79 identified sites are located within 7 major river basins and several minor river basins. An example of one developed hydroelectric plant, the Red Rock Lake hydroelectric plant, is shown in Figure 4. The number of sites per major river basin range from 1 each in the Platte River Basin and the Missouri main stream, to 22 sites in the Iowa River Basin (Figure 5). The Iowa River Basin has the most undeveloped hydropower potential (99 MW) of the Iowa river basins (Figure 6).

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Table 1. Undeveloped hydropower potential summaries for Iowa. The table contains the nonmodeled undeveloped name plate potential, as well as the HES-modeled undeveloped hydropower potential totals.

	Number of projects	Name plate potential (MW)	HES-modeled potential (MW)
With power	7	115.5	60.7
W/O power	69	310.0	219.1
Undeveloped	3	30.0	25.0
State Total	79	455.5	304.9

Figure 1. Number of sites with HES-modeled undeveloped hydropower potential.

Figure 2. The HES-modeled undeveloped hydropower potential and the nonmodeled undeveloped hydropower potential.

Detailed Results

The appendices contain, in the form of HES-generated reports, detailed information of the undeveloped hydropower potential in Iowa. The appendices contain the following information:

Appendix A The undeveloped hydropower potential summary groups sites by dam status. The number of sites, nonmodeled undeveloped hydropower potential, and HES-modeled undeveloped hydropower potential is provided based on the dam status.

Appendix B The hydropower resource assessment by river basin includes the project number, project name, stream name, dam status, nonmodeled undeveloped hydropower potential, and the HES-modeled undeveloped hydropower potential for each of the individual sites.

Appendix C

Subtotals are provided for each river basin.

This is a listing of the project numbers, plant name, stream name, if a site is Federally owned, nonmodeled undeveloped hydropower potential, and HES-modeled undeveloped hydropower potential. The sites are grouped by dam status.

Appendix D

This section contains a resource database listing for each of the 79 sites in Iowa. Information includes plant name, stream, state, county, river basin and owner names, project number, name plate and HES-modeled undeveloped hydropower potential, the unit and plant types, dam status, latitude, longitude, and the environmental factors that the HES uses to determine the project environmental suitability factor.

Figure 3. The HES-modeled undeveloped hydropower potential and the total megawatts of HES-modeled undeveloped hydropower potential.

Figure 4. Example of a developed hydroelectric plant in Iowa: This is the Red Rock Lake, Iowa, hydroelectric plant.

Figure 5. Number of sites with undeveloped hydropower potential in each of the Iowa river basins.

Figure 6. Megawatts of HES-modeled undeveloped hydropower potential in the Iowa river basins.

OBTAINING INDIVIDUAL STATE INFORMATION

Additional copies of the hydropower resource assessment results for individual states are available and can be obtained by writing or calling the National Technical Information Service (NTIS).

Telephone Orders – (703) 487-4650. NTIS sales desk and customer services are available between 8:30 a.m. and 5:00 p.m., Eastern Standard Time.

Fax – (703) 321-8547. Customers may fax their orders to NTIS. These orders may be charged to a NTIS deposit account, American Express, VISA, or MasterCard.

Mail Orders – Mail orders should be sent to National Technical Information Service, Document Sales, 5285 Port Royal Road, Springfield, VA 22161. Call the sales desk for prices before placing an order.

Method of Payment – Customers may pay for reports (and other NTIS products and services) by (a) credit card (American Express, Visa or MasterCard); (b) check or money order on a United States bank payable to NTIS; (c) a NTIS deposit account; or, (d) by asking to be billed (add \$7.50 per order), United States, Canada, and Mexico, only.

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Postage and Shipping – Orders are shipped first class mail, or equivalent, to addresses in the United States, Canada, and Mexico.

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Rush Order Service – Call 1-800-533-NTIS. In Virginia, Canada, and Mexico call (703)

487-4700. For NTIS rush order service add \$15.00 per item. This guarantees that an order will be processed through NTIS within 24 hours of its receipt. These orders receive immediate, individual attention. The items ordered are delivered by first call mail. Call NTIS for information on rush order service for computer products.

For Help in Tracing an Order – Call (703) 487-4650 and request the customer service option.

ADDITIONAL HYDROPOWER EVALUATION SOFTWARE INFORMATION

Additional information concerning the HES can be obtained by contacting Ben Rinehart or Jim Francfort at the addresses provided below. Copies of the software and the *User's Manual* may also be obtained from these individuals.

Ben Rinehart
Idaho National Engineering Laboratory
P.O. Box 1625, M.S. 3830
Idaho Falls, ID 83415-3830
(208) 526-1002

Jim Francfort
Idaho National Engineering Laboratory

P.O. Box 1625, M.S. 3875
Idaho Falls, ID 83415-3875
(208) 526-6787

Information concerning the State of Iowa's involvement with the resource assessment or about the identified sites may be obtained by contacting:

Ward Lenz
State Of Iowa
Iowa Department of Natural Resources
Wallace State Office Building
Des Moines, Iowa 50319
(515) 281-5145

REFERENCES

Francfort, J. E., S. D. Matthews, and B. N. Rinehart, 1991, *Hydropower Evaluation Software User's Manual*, DOE/ID-10338, Idaho National Engineering Laboratory, Idaho Falls, Idaho.

Francfort, J. E., K. M. Moore, and B. N. Rinehart, 1993, *Uniform Criteria for U.S. Hydropower Resource Assessment, Hydropower Evaluation Software Status Report*, DOE/ID-10430, Idaho National Engineering Laboratory, Idaho Falls, Idaho.

Appendix A

Summary Report

DATE: 11/24/95

H Y D R O P O W E R C A P A C I T Y S U M M A R Y

<u>State</u>	<u>Category</u>	<u>Number of Projects</u>	<u>Name Plate Capacity (KW)</u>	<u>HES Adjusted Capacity (KW)</u>
IA	With Power	7	115451	60717.50
	W/O Power	69	310027	219103
	Undeveloped	3	29980	25045
	STATE TOTAL	79	455458	304865.50
TOTALS	With Power	7	115451	60717.50
	W/O Power	69	310027	219103
	Undeveloped	3	29980	25045
GRAND TOTAL		79	455458	304865.50

Appendix B
River Basins Report

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** River Basin DES MOINES RIVER BASIN					
IA005	PANORA(232 IA NO) M RACCOON R	U	2980.00	0.25	745.00
IA004	OTTUMWA DES MOINES R	W	5380.00	0.90	4842.00
IA007	RED ROCK DES MOINES R	WO	17200.00	0.90	15480.00
11502	RED ROCK DES MOINES R	WO	30000.00	0.75	22500.00
11174	RED ROCK DES MOINES R	WO	30000.00	0.75	22500.00
09882	ADEL MILL RACCOON R	WO	420.00	0.90	378.00
08741	REDFIELD M RACCOON R	WO	98.00	0.50	49.00
07879	CENTER STREET DES MOINES R	WO	1860.00	0.90	1674.00
10749	SAYLORVILLE DES MOINES R	WO	9600.00	0.75	7200.00
11346	FORT DODGE MILL DES MOINES R	WO	690.00	0.90	621.00
11344	HUMBOLDT MILL W FK DES MOINES R	WO	820.00	0.90	738.00
11343	RUTLAND MILL W FK DES MOINES R	WO	700.00	0.90	630.00
IA101	FRASER MILLDAM DES MOINES RIVER	WO	760.00	0.90	684.00
IA102	BOONE MILLDAM DES MOINES RIVER	WO	760.00	0.90	684.00
IA103	SCOTT STREET DAM DES MOINES RIVER	WO	1470.00	0.90	1323.00
IA109	BONAPARTE DES MOINES RIVER	WO	2990.00	0.90	2691.00

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
IA108	FORT DODGE MILLDAM DES MOINES RIVER	WO	1760.00	0.90	1584.00
IA106	LEHIGH DES MOINES RIVER	WO	810.00	0.90	729.00
** Subtotal **			108298.00		85052.00
** River Basin IOWA RIVER BASIN					
07066	BURLINGTON STREET IOWA R	U	2000.00	0.90	1800.00
01853	MUSCATINE 3 GENEVA CR,MISSISSIPPI R	U	25000.00	0.90	22500.00
IA124	IOWA FALLS MILLDAM IOWA RIVER	W	540.00	0.90	486.00
IA111	AMANA DAM IOWA RIVER	W	280.00	0.90	252.00
IA008	ROCHESTER CEDAR R	WO	28000.00	0.90	25200.00
IA001	CEDAR RAPIDS CEDAR R	WO	9600.00	0.90	8640.00
IA006	PROJECT 13 A CEDAR R	WO	11200.00	0.90	10080.00
08111	WATERLOO CEDAR R	WO	1840.00	0.90	1656.00
09278	CEDAR FALLS CEDAR R	WO	770.00	0.90	693.00
11347	MARBLE ROCK MILL SHELLROCK R	WO	660.00	0.90	594.00
09891	CHARLES CITY MILL CEDAR R	WO	220.00	0.75	165.00
11349	MITCHELL MILL CEDAR R	WO	510.00	0.90	459.00
IA009	ST ANSGAR LOWER CEDAR R	WO	172.00	0.75	129.00

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
IA010	ST ANSGAR UPPER CEDAR R	WO	186.00	0.75	139.50
08691	CORALVILLE MILL IOWA R	WO	1000.00	0.75	750.00
08109	STEAMBOAT ROCK IOWA R	WO	280.00	0.50	140.00
08110	ALDEN MILL IOWA R	WO	220.00	0.50	110.00
07103	MISSISSIPPI L&D 17 MISSISSIPPI R	WO	10500.00	0.50	5250.00
11250	MISSISSIPPI L&D 16 MISSISSIPPI R	WO	13000.00	0.75	9750.00
11463	CORALVILLE IOWA R	WO	12000.00	0.75	9000.00
11283	NASHUA CEDAR R	WO	810.00	0.75	607.50
11374	GREENE MILL SHELLROCK R	WO	370.00	0.90	333.00
** Subtotal **			119158.00		98734.00
** River Basin MAQUOKETA RIVER BASIN					
IA002	MAQUOKETA S FK MAQUOKETA R	W	4140.00	0.50	2070.00
11342	MONTICELLO MILL MAQUOKETA R	WO	320.00	0.90	288.00
09892	MANCHESTER MILL MAQUOKETA R	WO	150.00	0.75	112.50
09893	HOPKINTON DAM MAQUOKETA R	WO	250.00	0.90	225.00
11485	DELHI MILL DAM MAQUOKETA R	WO	1425.00	0.90	1282.50
08184	QUAKER MILLS MAQUOKETA R	WO	160.00	0.90	144.00

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
11248	MISSISSIPPI L&D 12 MISSISSIPPI R	WO	8200.00	0.50	4100.00
11247	MISSISSIPPI L&D 11 MISSISSIPPI R	WO	14000.00	0.50	7000.00
08642	ELKADER TURKEY R	WO	500.00	0.50	250.00
11246	MISSISSIPPI L&D 10 MISSISSIPPI R	WO	16800.00	0.50	8400.00
** Subtotal **			45945.00		23872.00
** River Basin MINOR RIVER BASIN					
IA117	WAVERLY MILLDAM CEDAR RIVER	W	580.00	0.90	522.00
IA113	ANAMOSA MILLDAM WAPSIPINICON RIVER	W	700.00	0.90	630.00
IA118	QUASQUETON DAM WAPSIPINICON RIVER	WO	250.00	0.90	225.00
IA119	MASON CITY MILLDAM WINNEBAGO RIVER	WO	100.00	0.90	90.00
IA122	CLERMONT MILLDAM TURKEY RIVER	WO	470.00	0.90	423.00
IA107	ROCKFORD SHELL ROCK RIVER	WO	150.00	0.90	135.00
IA110	LITTLE SIOUX DAM LITTLE SIOUX RIVER	WO	690.00	0.90	621.00
IA112	LYNNVILLE DAM NORTH SKUNK RIVER	WO	150.00	0.90	135.00
IA114	OXFORD MILLS WAPSIPINICON RIVER	WO	570.00	0.90	513.00
IA115	PALISADES-KEPLER CEDAR RIVER	WO	2010.00	0.90	1809.00
IA116	TROY MILLS WAPSIPINICON RIVER	WO	330.00	0.90	297.00

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
IA121	KLONDIKE MILLDAM BIG SIOUX RIVER	WO	440.00	0.90	396.00
IA123	OTRANTO DAM CEDAR RIVER	WO	150.00	0.90	135.00
IA125	CLARINDA DAM NODAWAY RIVER	WO	140.00	0.90	126.00
IA105	FORT ATKINSON TURKEY RIVER	WO	100.00	0.90	90.00
IA104	FERTILE MILLDAM WINNEBAGO RIVER	WO	130.00	0.90	117.00
** Subtotal **			6960.00		6264.00
** River Basin MISSISSIPPI MAIN STREAM					
IA003	MISSISSIPPI L&D 19 MISSISSIPPI R	W	103831.00	0.50	51915.50
08955	OAKLAND MILLS SKUNK R	WO	1060.00	0.50	530.00
11251	MISSISSIPPI L&D 18 MISSISSIPPI R	WO	11000.00	0.75	8250.00
11278	L&D 15 MISSISSIPPI R	WO	29000.00	0.50	14500.00
08105	CENTRAL CITY MILL WAPSIPINICON R	WO	640.00	0.50	320.00
10229	INDEPENDENCE MILL WAPSIPINICON R	WO	706.00	0.50	353.00
08098	LITTLETON DAM WAPSIPINICON R	WO	320.00	0.50	160.00
11249	MISSISSIPPI L&D 13 MISSISSIPPI R	WO	15200.00	0.50	7600.00
** Subtotal **			161757.00		83628.50
** River Basin MISSOURI MAIN STREAM					
10747	RATHBUN DAM CHARITON R	WO	1910.00	0.75	1432.50

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **					
			1910.00		1432.50
** River Basin PLATTE RIVER BASIN					
08096	LINN GROVE MILL LITTLE SIOUX R	WO	310.00	0.50	155.00
** Subtotal **					
			310.00		155.00
** River Basin WISCONSIN RIVER BASIN					
11245	MISSISSIPPI L&D 9 MISSISSIPPI R	WO	10000.00	0.50	5000.00
09327	DECORAH LOWER UPPER IOWA R	WO	670.00	0.75	502.50
08097	DECORAH UPPER UPPER IOWA R	WO	450.00	0.50	225.00
** Subtotal **					
			11120.00		5727.50
*** Total ***					
			455458.00		304865.50

Appendix C
Iowa Sites Listing

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number 01853 MUSCATINE 3 GENEVA CR,MISSISSIPPI R	IA	U	25000.00	0.90	22500.00
** Subtotal **			25000.00		22500.00
** FERC Number 07066 BURLINGTON STREET IOWA R	IA	U	2000.00	0.90	1800.00
** Subtotal **			2000.00		1800.00
** FERC Number IA005 PANORA(232 IA NO) M RACCOON R	IA	U	2980.00	0.25	745.00
** Subtotal **			2980.00		745.00
** FERC Number IA002 MAQUOKETA S FK MAQUOKETA R	IA	W	4140.00	0.50	2070.00
** Subtotal **			4140.00		2070.00
** FERC Number IA003 MISSISSIPPI L&D 19 MISSISSIPPI R	IA	W	103831.00	0.50	51915.50
** Subtotal **			103831.00		51915.50
** FERC Number IA004 OTTUMWA DES MOINES R	IA	W	5380.00	0.90	4842.00
** Subtotal **			5380.00		4842.00
** FERC Number IA111 AMANA DAM IOWA RIVER	IA	W	280.00	0.90	252.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW) PESF	PESF * KW
** Subtotal **		280.00	252.00
** FERC Number IA113 ANAMOSA MILLDAM WAPSIPINICON RIVER	IA W	700.00 0.90	630.00
** Subtotal **		700.00	630.00
** FERC Number IA117 WAVERLY MILLDAM CEDAR RIVER	IA W	580.00 0.90	522.00
** Subtotal **		580.00	522.00
** FERC Number IA124 IOWA FALLS MILLDAM IOWA RIVER	IA W	540.00 0.90	486.00
** Subtotal **		540.00	486.00
** FERC Number 07103 MISSISSIPPI L&D 17 MISSISSIPPI R	IA WO	10500.00 0.50	5250.00
** Subtotal **		10500.00	5250.00
** FERC Number 07879 CENTER STREET DES MOINES R	IA WO	1860.00 0.90	1674.00
** Subtotal **		1860.00	1674.00
** FERC Number 08096 LINN GROVE MILL LITTLE SIOUX R	IA WO	310.00 0.50	155.00
** Subtotal **		310.00	155.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number 08097 DECORAH UPPER UPPER IOWA R	IA	WO	450.00	0.50	225.00
** Subtotal **			450.00		225.00
** FERC Number 08098 LITTLETON DAM WAPSIPINICON R	IA	WO	320.00	0.50	160.00
** Subtotal **			320.00		160.00
** FERC Number 08105 CENTRAL CITY MILL WAPSIPINICON R	IA	WO	640.00	0.50	320.00
** Subtotal **			640.00		320.00
** FERC Number 08109 STEAMBOAT ROCK IOWA R	IA	WO	280.00	0.50	140.00
** Subtotal **			280.00		140.00
** FERC Number 08110 ALDEN MILL IOWA R	IA	WO	220.00	0.50	110.00
** Subtotal **			220.00		110.00
** FERC Number 08111 WATERLOO CEDAR R	IA	WO	1840.00	0.90	1656.00
** Subtotal **			1840.00		1656.00
** FERC Number 08184 QUAKER MILLS MAQUOKETA R	IA	WO	160.00	0.90	144.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW) PESF	PESF * KW
** Subtotal **		160.00	144.00
** FERC Number 08642 ELKADER TURKEY R	IA WO	500.00 0.50	250.00
** Subtotal **		500.00	250.00
** FERC Number 08691 CORALVILLE MILL IOWA R	IA WO	1000.00 0.75	750.00
** Subtotal **		1000.00	750.00
** FERC Number 08741 REDFIELD M RACCOON R	IA WO	98.00 0.50	49.00
** Subtotal **		98.00	49.00
** FERC Number 08955 OAKLAND MILLS SKUNK R	IA WO	1060.00 0.50	530.00
** Subtotal **		1060.00	530.00
** FERC Number 09278 CEDAR FALLS CEDAR R	IA WO	770.00 0.90	693.00
** Subtotal **		770.00	693.00
** FERC Number 09327 DECORAH LOWER UPPER IOWA R	IA WO	670.00 0.75	502.50
** Subtotal **		670.00	502.50

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number 09882 ADEL MILL RACCOON R	IA	WO	420.00	0.90	378.00
** Subtotal **			420.00		378.00
** FERC Number 09891 CHARLES CITY MILL CEDAR R	IA	WO	220.00	0.75	165.00
** Subtotal **			220.00		165.00
** FERC Number 09892 MANCHESTER MILL MAQUOKETA R	IA	WO	150.00	0.75	112.50
** Subtotal **			150.00		112.50
** FERC Number 09893 HOPKINTON DAM MAQUOKETA R	IA	WO	250.00	0.90	225.00
** Subtotal **			250.00		225.00
** FERC Number 10229 INDEPENDENCE MILL WAPSIPINICON R	IA	WO	706.00	0.50	353.00
** Subtotal **			706.00		353.00
** FERC Number 10747 RATHBUN DAM CHARITON R	IA	WO	1910.00	0.75	1432.50
** Subtotal **			1910.00		1432.50
** FERC Number 10749 SAYLORVILLE DES MOINES R	IA	WO	9600.00	0.75	7200.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW) PESF	PESF * KW
** Subtotal **		9600.00	7200.00
** FERC Number 11174 RED ROCK DES MOINES R	IA WO	30000.00 0.75	22500.00
** Subtotal **		30000.00	22500.00
** FERC Number 11245 MISSISSIPPI L&D 9 MISSISSIPPI R	IA WO	10000.00 0.50	5000.00
** Subtotal **		10000.00	5000.00
** FERC Number 11246 MISSISSIPPI L&D 10 MISSISSIPPI R	IA WO	16800.00 0.50	8400.00
** Subtotal **		16800.00	8400.00
** FERC Number 11247 MISSISSIPPI L&D 11 MISSISSIPPI R	IA WO	14000.00 0.50	7000.00
** Subtotal **		14000.00	7000.00
** FERC Number 11248 MISSISSIPPI L&D 12 MISSISSIPPI R	IA WO	8200.00 0.50	4100.00
** Subtotal **		8200.00	4100.00
** FERC Number 11249 MISSISSIPPI L&D 13 MISSISSIPPI R	IA WO	15200.00 0.50	7600.00
** Subtotal **		15200.00	7600.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number 11250 MISSISSIPPI L&D 16 MISSISSIPPI R	IA	WO	13000.00	0.75	9750.00
** Subtotal **			13000.00		9750.00
** FERC Number 11251 MISSISSIPPI L&D 18 MISSISSIPPI R	IA	WO	11000.00	0.75	8250.00
** Subtotal **			11000.00		8250.00
** FERC Number 11278 L&D 15 MISSISSIPPI R	IA	WO	29000.00	0.50	14500.00
** Subtotal **			29000.00		14500.00
** FERC Number 11283 NASHUA CEDAR R	IA	WO	810.00	0.75	607.50
** Subtotal **			810.00		607.50
** FERC Number 11342 MONTICELLO MILL MAQUOKETA R	IA	WO	320.00	0.90	288.00
** Subtotal **			320.00		288.00
** FERC Number 11343 RUTLAND MILL W FK DES MOINES R	IA	WO	700.00	0.90	630.00
** Subtotal **			700.00		630.00
** FERC Number 11344 HUMBOLDT MILL W FK DES MOINES R	IA	WO	820.00	0.90	738.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **			820.00		738.00
** FERC Number 11346 FORT DODGE MILL DES MOINES R	IA	WO	690.00	0.90	621.00
** Subtotal **			690.00		621.00
** FERC Number 11347 MARBLE ROCK MILL SHELLROCK R	IA	WO	660.00	0.90	594.00
** Subtotal **			660.00		594.00
** FERC Number 11349 MITCHELL MILL CEDAR R	IA	WO	510.00	0.90	459.00
** Subtotal **			510.00		459.00
** FERC Number 11374 GREENE MILL SHELLROCK R	IA	WO	370.00	0.90	333.00
** Subtotal **			370.00		333.00
** FERC Number 11463 CORALVILLE IOWA R	IA	WO	12000.00	0.75	9000.00
** Subtotal **			12000.00		9000.00
** FERC Number 11485 DELHI MILL DAM MAQUOKETA R	IA	WO	1425.00	0.90	1282.50
** Subtotal **			1425.00		1282.50

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number 11502 RED ROCK DES MOINES R	IA	WO	30000.00	0.75	22500.00
** Subtotal **			30000.00		22500.00
** FERC Number IA001 CEDAR RAPIDS CEDAR R	IA	WO	9600.00	0.90	8640.00
** Subtotal **			9600.00		8640.00
** FERC Number IA006 PROJECT 13 A CEDAR R	IA	WO	11200.00	0.90	10080.00
** Subtotal **			11200.00		10080.00
** FERC Number IA007 RED ROCK DES MOINES R	IA	WO	17200.00	0.90	15480.00
** Subtotal **			17200.00		15480.00
** FERC Number IA008 ROCHESTER CEDAR R.	IA	WO	28000.00	0.90	25200.00
** Subtotal **			28000.00		25200.00
** FERC Number IA009 ST ANSGAR LOWER CEDAR R	IA	WO	172.00	0.75	129.00
** Subtotal **			172.00		129.00
** FERC Number IA010 ST ANSGAR UPPER CEDAR R	IA	WO	186.00	0.75	139.50

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **			186.00		139.50
** FERC Number IA101 FRASER MILLDAM DES MOINES RIVER	IA	WO	760.00	0.90	684.00
** Subtotal **			760.00		684.00
** FERC Number IA102 BOONE MILLDAM DES MOINES RIVER	IA	WO	760.00	0.90	684.00
** Subtotal **			760.00		684.00
** FERC Number IA103 SCOTT STREET DAM DES MOINES RIVER	IA	WO	1470.00	0.90	1323.00
** Subtotal **			1470.00		1323.00
** FERC Number IA104 FERTILE MILLDAM WINNEBAGO RIVER	IA	WO	130.00	0.90	117.00
** Subtotal **			130.00		117.00
** FERC Number IA105 FORT ATKINSON TURKEY RIVER	IA	WO	100.00	0.90	90.00
** Subtotal **			100.00		90.00
** FERC Number IA106 LEHIGH DES MOINES RIVER	IA	WO	810.00	0.90	729.00
** Subtotal **			810.00		729.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number IA107 ROCKFORD SHELL ROCK RIVER	IA	WO	150.00	0.90	135.00
** Subtotal **			150.00		135.00
** FERC Number IA108 FORT DODGE MILLDAM DES MOINES RIVER	IA	WO	1760.00	0.90	1584.00
** Subtotal **			1760.00		1584.00
** FERC Number IA109 BONAPARTE DES MOINES RIVER	IA	WO	2990.00	0.90	2691.00
** Subtotal **			2990.00		2691.00
** FERC Number IA110 LITTLE SIOUX DAM LITTLE SIOUX RIVER	IA	WO	690.00	0.90	621.00
** Subtotal **			690.00		621.00
** FERC Number IA112 LYNNVILLE DAM NORTH SKUNK RIVER	IA	WO	150.00	0.90	135.00
** Subtotal **			150.00		135.00
** FERC Number IA114 OXFORD MILLS WAPSIPINICON RIVER	IA	WO	570.00	0.90	513.00
** Subtotal **			570.00		513.00
** FERC Number IA115 PALISADES-KEPLER CEDAR RIVER	IA	WO	2010.00	0.90	1809.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **			2010.00		1809.00
** FERC Number IA116 TROY MILLS WAPSIPINICON RIVER	IA	WO	330.00	0.90	297.00
** Subtotal **			330.00		297.00
** FERC Number IA118 QUASQUETON DAM WAPSIPINICON RIVER	IA	WO	250.00	0.90	225.00
** Subtotal **			250.00		225.00
** FERC Number IA119 MASON CITY MILLDAM WINNEBAGO RIVER	IA	WO	100.00	0.90	90.00
** Subtotal **			100.00		90.00
** FERC Number IA121 KLONDIKE MILLDAM BIG SIOUX RIVER	IA	WO	440.00	0.90	396.00
** Subtotal **			440.00		396.00
** FERC Number IA122 CLERMONT MILLDAM TURKEY RIVER	IA	WO	470.00	0.90	423.00
** Subtotal **			470.00		423.00
** FERC Number IA123 OTRANTO DAM CEDAR RIVER	IA	WO	150.00	0.90	135.00
** Subtotal **			150.00		135.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number IA125 CLARINDA DAM NODAWAY RIVER	IA WO	140.00	0.90	126.00
** Subtotal **		140.00		126.00
*** Total ***		455458.00		304865.50

Appendix D
Individual Resource Database Listing

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FERC Number	Plant Name	Stream	State Name
01853	MUSCATINE 3	GENEVA CR,MISSISSIPPI R	IA

County Name	River Basin
MUSCATINE	IOWA RIVER BASIN

Class	Owner Name
C	FIRST IOWA HYDRO EL COOP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
25000.00	0.90	22500.00	194800.00	175320

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4127.00 9058.00
C	CMB	XX	U		

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or		Threatened/Endangered Fish	0.90
Upstream/Downstream		Threatened/Endangered Wildlife	0.90
Wild/Scenic Location	0.90	Federal Land Code 103	0.90
Cultural Value	0.90	Federal Land Code 104	0.90
Fish Presence Value	0.90	Federal Land Code 105	0.90
Geologic Value	0.90	Federal Land Code 106	0.90
Historic Value	0.90	Federal Land Code 107	0.90
Other Value	0.90	Federal Land Code 108	0.90
Recreation Value	0.90	Federal Land Code 198	Y 0.90
Scenic Value	0.90		

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FERC Number	Plant Name	Stream	State Name
07066	BURLINGTON STREET	IOWA R	IA

County Name	River Basin
JOHNSON	IOWA RIVER BASIN

Class	Owner Name
R	BURLINGTON STREET ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
2000.00	0.90	1800.00	8760.00	7884

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	XX	U	4140.00	9133.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
07103	MISSISSIPPI L&D 17	MISSISSIPPI R	IA

County Name	River Basin
LOUISA	IOWA RIVER BASIN

Class	Owner Name
R	WAPELLO ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
10500.00	0.50	5250.00	43000.00	21500

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4111.00
C	ROR	XX	WO	Longitude	9104.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
07879	CENTER STREET	DES MOINES R	IA

County Name	River Basin
POLK	DES MOINES RIVER BASIN

Class	Owner Name
M	DES MOINES, CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1860.00	0.90	1674.00	8200.00	7380

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4135.00
C	ROR	XX	WO	Longitude	9337.00

<u>Factor</u>	<u>Exist Prob</u>	<u>Factor</u>	<u>Exist Prob</u>
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	Y 0.90

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FERC Number	Plant Name	Stream	State Name
08096	LINN GROVE MILL	LITTLE SIOUX R	IA

County Name	River Basin
BUENA VISTA	PLATTE RIVER BASIN

Class	Owner Name
R	IOWA HYDROPOWER DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
310.00	0.50	155.00	1360.00	680

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	XX	WO	4254.00	9514.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
08097	DECORAH UPPER	UPPER IOWA R	IA

County Name	River Basin
WINNESHIEK	WISCONSIN RIVER BASIN

Class	Owner Name
R	IOWA HYDROPOWER DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
450.00	0.50	225.00	1970.00	985

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4321.00 9139.00
C	STG	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
08098	LITTLETON DAM	WAPSIPINICON R	IA

County Name	River Basin
BUCHANAN	MISSISSIPPI MAIN STREAM

Class	Owner Name
R	IOWA HYDROPOWER DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
320.00	0.50	160.00	1400.00	700

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	XX	WO	4232.00	9201.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
08105	CENTRAL CITY MILL	WAPSIPINICON R	IA

County Name	River Basin
LINN	MISSISSIPPI MAIN STREAM

Class	Owner Name
R	IOWA HYDROPOWER DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
640.00	0.50	320.00	1360.00	680

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4212.00
C	ROR	XX	WO	Longitude	9131.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
08109	STEAMBOAT ROCK	IOWA R	IA

County Name	River Basin
HARDIN	IOWA RIVER BASIN

Class	Owner Name
R	IOWA HYDROPOWER DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
280.00	0.50	140.00	1230.00	615

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4224.00 9304.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
08110	ALDEN MILL	IOWA R	IA

County Name	River Basin
HARDIN	IOWA RIVER BASIN

Class	Owner Name
R	IOWA HYDROPOWER DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
220.00	0.50	110.00	970.00	485

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4230.00 9322.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
08111	WATERLOO	CEDAR R	IA

County Name	River Basin
BLACK HAWK	IOWA RIVER BASIN

Class		Owner Name		
R		IOWA HYDROPOWER DEV CORP		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1840.00	0.90	1656.00	7900.00	7110

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4229.00 9218.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
08184	QUAKER MILLS	MAQUOKETA R	IA

County Name	River Basin
DELAWARE	MAQUOKETA RIVER BASIN

Class	Owner Name
R	IOWA HYDROPOWER DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
160.00	0.90	144.00	700.00	630

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4231.00
C	ROR	XX	WO	Longitude	9128.00

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
08642	ELKADER	TURKEY R	IA

County Name	River Basin
CLAYTON	MAQUOKETA RIVER BASIN

Class		Owner Name		
R		ENERGY RESOURCES GROUP		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
500.00	0.50	250.00	2497.00	1248.50
Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude
C	ROR	XX	WO	4251.00 9124.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	Y	0.75
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value	Y	0.75	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
08691	CORALVILLE MILL	IOWA R	IA

County Name	River Basin
JOHNSON	IOWA RIVER BASIN

Class	Owner Name
M	IOWA CITY,CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1000.00	0.75	750.00	5100.00	3825

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4140.00 9133.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
08741	REDFIELD	M RACCOON R	IA

County Name	River Basin
DALLAS	DES MOINES RIVER BASIN

Class	Owner Name
R	DALLAS COUNTY HYDRO CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
98.00	0.50	49.00	697.00	348.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	XX	WO	4136.00	9412.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
08955	OAKLAND MILLS	SKUNK R	IA

County Name	River Basin
HENRY	MISSISSIPPI MAIN STREAM

Class	Owner Name
R	D J PITMAN INTER CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1060.00	0.50	530.00	4813.00	2406.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4056.00	Longitude	9137.00
C	ROR	XX	WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
09278	CEDAR FALLS	CEDAR R	IA

County Name	River Basin
BLACK HAWK	IOWA RIVER BASIN

Class	Owner Name
R	CEDAR FALLS DEV LTD

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
770.00	0.90	693.00	4425.00	3982.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4232.00
C	ROR	XX	WO	Longitude	9226.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	0.90		Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife		0.90
Cultural Value	0.90		Federal Land Code 103		0.90
Fish Presence Value	0.90		Federal Land Code 104		0.90
Geologic Value	0.90		Federal Land Code 105		0.90
Historic Value	0.90		Federal Land Code 106		0.90
Other Value	0.90		Federal Land Code 107		0.90
Recreation Value	0.90		Federal Land Code 108		0.90
Scenic Value	0.90		Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
09327	DECORAH LOWER	UPPER IOWA R	IA

County Name	River Basin
WINNESHIEK	WISCONSIN RIVER BASIN

Class	Owner Name
R	DECORAH HYDRO ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
670.00	0.75	502.50	2900.00	2175

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4321.00 9139.00
C	STG	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
09882	ADEL MILL	RACCOON R	IA

County Name	River Basin
DALLAS	DES MOINES RIVER BASIN

Class	Owner Name
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R	DALLAS COUNTY HYDRO CO
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
420.00	0.90	378.00	2222.00	1999.80

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4138.00 9401.00
C	ROR	XX	WO		

Factor	Exist Prob	Factor	Exist Prob
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Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	Y 0.90

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FERC Number	Plant Name	Stream	State Name
09891	CHARLES CITY MILL	CEDAR R	IA

County Name	River Basin
FLOYD	IOWA RIVER BASIN

Class	Owner Name
R	LINCOLNWAY DEV CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
220.00	0.75	165.00	1250.00	937.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4304.00
C	ROR	XX	WO	Longitude	9241.00

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection	0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish		0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife		0.90
Cultural Value	0.90	Federal Land Code 103		0.90
Fish Presence Value	0.90	Federal Land Code 104		0.90
Geologic Value	0.90	Federal Land Code 105		0.90
Historic Value	0.90	Federal Land Code 106		0.90
Other Value	0.90	Federal Land Code 107		0.90
Recreation Value	0.90	Federal Land Code 108		0.90
Scenic Value	0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
09892	MANCHESTER MILL	MAQUOKETA R	IA

County Name	River Basin
DELAWARE	MAQUOKETA RIVER BASIN

Class	Owner Name
R	LINCOLNWAY DEV CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
150.00	0.75	112.50	750.00	562.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	XX	WO	4229.00	9128.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
09893	HOPKINTON DAM	MAQUOKETA R	IA

County Name	River Basin
DELAWARE	MAQUOKETA RIVER BASIN

Class	Owner Name
R	LINCOLNWAY DEV CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
250.00	0.90	225.00	1100.00	990

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4221.00 9116.00
C	ROR	XX	WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	Y 0.90

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FERC Number	Plant Name	Stream	State Name
10229	INDEPENDENCE MILL	WAPSIPINICON R	IA

County Name	River Basin
BUCHANAN	MISSISSIPPI MAIN STREAM

Class	Owner Name
R	INDEPENDENCE HYDRO CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
706.00	0.50	353.00	2000.00	1000

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4228.00
C	ROR	XX	WO	Longitude	9150.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
10747	RATHBUN DAM	CHARITON R	IA

County Name	River Basin
APPANOOSE	MISSOURI MAIN STREAM

Class	Owner Name
R	IOWA HYDRO DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1910.00	0.75	1432.50	5150.00	3862.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4050.00
C	STG	PO	WO	Longitude	9253.00

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	Y 0.75
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
10749	SAYLORVILLE	DES MOINES R	IA

County Name	River Basin
POLK	DES MOINES RIVER BASIN

Class	Owner Name
R	IOWA HYDRO DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
9600.00	0.75	7200.00	28300.00	21225

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4138.00	Longitude	9347.00
C	STG	MA	WO				

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	Y 0.75
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
11174	RED ROCK	DES MOINES R	IA

County Name	River Basin
MARION	DES MOINES RIVER BASIN

Class	Owner Name
R	ELY, TOWN OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
30000.00	0.75	22500.00	110000.00	82500

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4122.00
C	ROR	PO	WO	Longitude	9259.00

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	Y 0.75
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
11245	MISSISSIPPI L&D 9	MISSISSIPPI R	IA

County Name	River Basin
ALLAMAKEE	WISCONSIN RIVER BASIN

Class	Owner Name
R	IOWA HYDROPOWER DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
10000.00	0.50	5000.00	85000.00	42500

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	XX	WO	4313.00	9106.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
11246	MISSISSIPPI L&D 10	MISSISSIPPI R	IA

County Name	River Basin
CLAYTON	MAQUOKETA RIVER BASIN

Class	Owner Name
R	IOWA HYDROPOWER DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
16800.00	0.50	8400.00	95900.00	47950

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4247.00	Longitude	9106.00
C	ROR	XX	WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
11247	MISSISSIPPI L&D 11	MISSISSIPPI R	IA

County Name	River Basin
DUBUQUE	MAQUOKETA RIVER BASIN

Class	Owner Name
M	IOWA HYDROPOWER DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
14000.00	0.50	7000.00	91100.00	45550

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4232.00 9038.00
C	ROR	PO	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
11248	MISSISSIPPI L&D 12	MISSISSIPPI R	IA

County Name	River Basin
JACKSON	MAQUOKETA RIVER BASIN

Class	Owner Name
M	IOWA HYDROPOWER DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
8200.00	0.50	4100.00	36500.00	18250

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4216.00 9025.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
11249	MISSISSIPPI L&D 13	MISSISSIPPI R	IA

County Name	River Basin
CLINTON	MISSISSIPPI MAIN STREAM

Class	Owner Name
M	IOWA HYDROPOWER DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
15200.00	0.50	7600.00	74200.00	37100

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4154.00 9009.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
11250	MISSISSIPPI L&D 16	MISSISSIPPI R	IA

County Name	River Basin
MUSCATINE	IOWA RIVER BASIN

Class	Owner Name
R	IOWA HYDROPOWER DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
13000.00	0.75	9750.00	67800.00	50850

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4126.00	Longitude	9101.00
C	ROR	XX	WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	0.90		Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife		0.90
Cultural Value	0.90		Federal Land Code 103		0.90
Fish Presence Value	0.90		Federal Land Code 104	Y	0.75
Geologic Value	0.90		Federal Land Code 105		0.90
Historic Value	0.90		Federal Land Code 106		0.90
Other Value	0.90		Federal Land Code 107		0.90
Recreation Value	0.90		Federal Land Code 108		0.90
Scenic Value	0.90		Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
11251	MISSISSIPPI L&D 18	MISSISSIPPI R	IA

County Name	River Basin
DES MOINES	MISSISSIPPI MAIN STREAM

Class		Owner Name		
R		IOWA HYDROPOWER DEV CORP		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
11000.00	0.75	8250.00	44800.00	33600

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4053.00 9102.00
C.	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
11278	L&D 15	MISSISSIPPI R	IA

County Name	River Basin
SCOTT	MISSISSIPPI MAIN STREAM

Class	Owner Name
R	IOWA HYDROPOWER DEV CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
29000.00	0.50	14500.00	144200.00	72100

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4131.00 9034.00
C	ROR	PO	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
11283	NASHUA	CEDAR R	IA

County Name	River Basin
CHICKASAW & FLOYD	IOWA RIVER BASIN

Class	Owner Name
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R	NASHUA, CITY OF
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
810.00	0.75	607.50	4000.00	3000

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4257.00 9232.00
	ROR	PO	WO		

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103		0.90
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value	Y	0.75	Federal Land Code 105		0.90
Geologic Value		0.90	Federal Land Code 106		0.90
Historic Value		0.90	Federal Land Code 107		0.90
Other Value		0.90	Federal Land Code 108		0.90
Recreation Value		0.90	Federal Land Code 198		0.90
Scenic Value		0.90			

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FERC Number	Plant Name	Stream	State Name
11342	MONTICELLO MILL	MAQUOKETA R	IA

County Name	River Basin
JONES	MAQUOKETA RIVER BASIN

Class	Owner Name
R	MONIA HYDRO CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
320.00	0.90	288.00	1400.00	1260

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4215.00 9110.00
C	ROR	PO	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
11343	RUTLAND MILL	W FK DES MOINES R	IA

County Name	River Basin
HUMBOLDT	DES MOINES RIVER BASIN

Class	Owner Name
R	RUTIA HYDRO CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
700.00	0.90	630.00	3549.00	3194.10

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	PO	WO	4242.00	9417.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	0.90		Wildlife Value	0.90	
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	0.90	
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife	0.90	
Cultural Value	0.90		Federal Land Code 103	0.90	
Fish Presence Value	0.90		Federal Land Code 104	0.90	
Geologic Value	0.90		Federal Land Code 105	0.90	
Historic Value	0.90		Federal Land Code 106	0.90	
Other Value	0.90		Federal Land Code 107	0.90	
Recreation Value	0.90		Federal Land Code 108	0.90	
Scenic Value	0.90		Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
11344	HUMBOLDT MILL	W FK DES MOINES R	IA

County Name	River Basin
HUMBOLDT	DES MOINES RIVER BASIN

Class	Owner Name
R	HUMIA HYDRO CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
820.00	0.90	738.00	3590.00	3231

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4244.00 9414.00
C	ROR	PO	WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	Y 0.90

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FERC Number	Plant Name	Stream	State Name
11346	FORT DODGE MILL	DES MOINES R	IA

County Name	River Basin
WEBSTER	DES MOINES RIVER BASIN

Class	Owner Name
P	FORIA HYDRO CORPORATION

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
690.00	0.90	621.00	320.00	288

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	MA	WO	4229.00	9411.00

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	Y 0.90

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FERC Number	Plant Name	Stream	State Name
11347	MARBLE ROCK MILL	SHELLROCK R	IA

County Name	River Basin
FLOYD	IOWA RIVER BASIN

Class	Owner Name
R	MARIA HYDRO CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
660.00	0.90	594.00	2890.00	2601

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4258.00
C	ROR	PO	WO	Longitude	9253.00

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	Y 0.90

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FERC Number	Plant Name	Stream	State Name
11349	MITCHELL MILL	CEDAR R	IA

County Name	River Basin
MITCHELL	IOWA RIVER BASIN

Class	Owner Name
M	MITCHELL, COUNTY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
510.00	0.90	459.00	2240.00	2016

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4312.00 9251.00
C	ROR	PO	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
11374	GREENE MILL	SHELLROCK R	IA

County Name	River Basin
BUTLER	IOWA RIVER BASIN

Class		Owner Name		
M		BUTLER, COUNTY OF		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
370.00	0.90	333.00	1750.00	1575

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4254.00 9248.00
C	ROR	PO	WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	Y 0.90

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FERC Number	Plant Name	Stream	State Name
11463	CORALVILLE	IOWA R	IA

County Name	River Basin
JOHNSON	IOWA RIVER BASIN

Class	Owner Name
R	WHITE HYDROPOWER CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
12000.00	0.75	9000.00	52560.00	39420

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	PO	WO	4143.00	9132.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
11485	DELHI MILL DAM	MAQUOKETA R	IA

County Name	River Basin
DELAWARE	MAQUOKETA RIVER BASIN

Class	Owner Name
R	NORTH AMER HYDRO INC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1425.00	0.90	1282.50	3300.00	2970

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4225.00
C	ROR	PO	WO	Longitude	9122.00

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	Y 0.90

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FERC Number	Plant Name	Stream	State Name
11502	RED ROCK	DES MOINES R	IA

County Name	River Basin
MARION	DES MOINES RIVER BASIN

Class	Owner Name
R	ELY, TOWN OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
30000.00	0.75	22500.00	110000.00	82500

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4122.00 9259.00
C	ROR	PA	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
IA001	CEDAR RAPIDS	CEDAR R	IA

County Name	River Basin
LINN	IOWA RIVER BASIN

Class	Owner Name
M	CITY OF CEDAR RAPIDS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
9600.00	0.90	8640.00	44000.00	39600

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4157.00 9138.00
C	STG	LE	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
IA002	MAQUOKETA	S FK MAQUOKETA R	IA

County Name	River Basin
JACKSON	MAQUOKETA RIVER BASIN

Class	Owner Name
P	IOWA ELEC LT AND PWR CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
4140.00	0.50	2070.00	8690.00	4345

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4204.00 9042.00
C	ROR	LE	W		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value	Y	0.75	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
IA003	MISSISSIPPI L&D 19	MISSISSIPPI R	IA

County Name	River Basin
LEE	MISSISSIPPI MAIN STREAM

Class	Owner Name
F	UNION ELECTRIC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
103831.00	0.50	51915.50	448000.00	224000

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	LE	W	4023.00	9122.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value	Y	0.75	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
IA004	OTTUMWA	DES MOINES R	IA

County Name	River Basin
WAPELLO	DES MOINES RIVER BASIN

Class	Owner Name
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M	OTTUMWA, CITY OF
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
5380.00	0.90	4842.00	23400.00	21060

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4101.00 9225.00
C	STG	FA	W		

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or		Threatened/Endangered Fish	0.90
Upstream/Downstream		Threatened/Endangered Wildlife	0.90
Wild/Scenic Location	0.90	Federal Land Code 103	0.90
Cultural Value	0.90	Federal Land Code 104	0.90
Fish Presence Value	0.90	Federal Land Code 105	0.90
Geologic Value	0.90	Federal Land Code 106	0.90
Historic Value	0.90	Federal Land Code 107	0.90
Other Value	0.90	Federal Land Code 108	0.90
Recreation Value	0.90	Federal Land Code 198	Y 0.90
Scenic Value	0.90		

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FERC Number	Plant Name	Stream	State Name
IA005	PANORA(232 IA NO)	M RACCOON R	IA

County Name	River Basin
GUTHRIE	DES MOINES RIVER BASIN

Class	Owner Name
P	MID-IOWA LAKES CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
2980.00	0.25	745.00	5625.00	1406.25

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4142.00	Longitude	9423.00
C	ROR		U				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.25
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value	Y	0.50	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
IA006	PROJECT 13 A	CEDAR R	IA

County Name	River Basin
BENTON	IOWA RIVER BASIN

Class	Owner Name
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
11200.00	0.90	10080.00	40000.00	36000

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4224.00
C	ROR		WO	Longitude	9201.00

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or		Threatened/Endangered Fish	0.90
Upstream/Downstream		Threatened/Endangered Wildlife	0.90
Wild/Scenic Location	0.90	Federal Land Code 103	0.90
Cultural Value	0.90	Federal Land Code 104	0.90
Fish Presence Value	0.90	Federal Land Code 105	0.90
Geologic Value	0.90	Federal Land Code 106	0.90
Historic Value	0.90	Federal Land Code 107	0.90
Other Value	0.90	Federal Land Code 108	0.90
Recreation Value	0.90	Federal Land Code 198	0.90
Scenic Value	0.90		

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FERC Number	Plant Name	Stream	State Name
IA007	RED ROCK	DES MOINES R	IA

County Name	River Basin
MARION	DES MOINES RIVER BASIN

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
17200.00	0.90	15480.00	103600.00	93240

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4122.00
C	STG		WO	Longitude	9259.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	0.90		Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife		0.90
Cultural Value	0.90		Federal Land Code 103		0.90
Fish Presence Value	0.90		Federal Land Code 104		0.90
Geologic Value	0.90		Federal Land Code 105		0.90
Historic Value	0.90		Federal Land Code 106		0.90
Other Value	0.90		Federal Land Code 107		0.90
Recreation Value	0.90		Federal Land Code 108		0.90
Scenic Value	0.90		Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
IA008	ROCHESTER	CEDAR R	IA

County Name	River Basin
CEDAR	IOWA RIVER BASIN

Class	Owner Name

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
28000.00	0.90	25200.00	85000.00	76500

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	0.00 0.00
C	STG		WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA009	ST ANSGAR LOWER	CEDAR R	IA

County Name	River Basin
MITCHELL	IOWA RIVER BASIN

Class	Owner Name
I	KLEINWORT, SHERWIN

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
172.00	0.75	129.00	600.00	450

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4322.00 9252.00
C	ROR		WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
IA010	ST ANSGAR UPPER	CEDAR R	IA

County Name	River Basin
MITCHELL	IOWA RIVER BASIN

Class	Owner Name
P	INTERSTATE POWER CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
186.00	0.75	139.50	750.00	562.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4322.00
C	STG	XX	WO	Longitude	9252.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198	Y	0.90

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FERC Number	Plant Name	Stream	State Name
IA101	FRASER MILLDAM	DES MOINES RIVER	IA

County Name	River Basin
BOONE	DES MOINES RIVER BASIN

Class	Owner Name
M	TOWN OF FRASER

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
760.00	0.90	684.00	3330.00	2997

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4207.00
C	ROR	XX	WO	Longitude	9358.00

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA102	BOONE MILLDAM	DES MOINES RIVER	IA

County Name	River Basin
BOONE	DES MOINES RIVER BASIN

Class	Owner Name
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M	CITY OF BOONE
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
760.00	0.90	684.00	3330.00	2997

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4205.00
C	ROR	XX	WO	Longitude	9356.00

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or		Threatened/Endangered Fish	0.90
Upstream/Downstream		Threatened/Endangered Wildlife	0.90
Wild/Scenic Location	0.90	Federal Land Code 103	0.90
Cultural Value	0.90	Federal Land Code 104	0.90
Fish Presence Value	0.90	Federal Land Code 105	0.90
Geologic Value	0.90	Federal Land Code 106	0.90
Historic Value	0.90	Federal Land Code 107	0.90
Other Value	0.90	Federal Land Code 108	0.90
Recreation Value	0.90	Federal Land Code 198	0.90
Scenic Value	0.90		

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FERC Number	Plant Name	Stream	State Name
IA103	SCOTT STREET DAM	DES MOINES RIVER	IA

County Name	River Basin
POLK	DES MOINES RIVER BASIN

Class	Owner Name
M	CITY OF DES MOINES

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1470.00	0.90	1323.00	6500.00	5850

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4135.00 9336.00
C	ROR	XX	WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA104	FERTILE MILLDAM	WINNEBAGO RIVER	IA

County Name	River Basin
WORTH	MINOR RIVER BASIN

Class	Owner Name
M	WORTH COUNTY CONSERVATION BOARD

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
130.00	0.90	117.00	570.00	513

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4316.00
C	ROR	XX	WO	Longitude	9325.00

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or		Threatened/Endangered Fish	0.90
Upstream/Downstream		Threatened/Endangered Wildlife	0.90
Wild/Scenic Location	0.90	Federal Land Code 103	0.90
Cultural Value	0.90	Federal Land Code 104	0.90
Fish Presence Value	0.90	Federal Land Code 105	0.90
Geologic Value	0.90	Federal Land Code 106	0.90
Historic Value	0.90	Federal Land Code 107	0.90
Other Value	0.90	Federal Land Code 108	0.90
Recreation Value	0.90	Federal Land Code 198	0.90
Scenic Value	0.90		

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FERC Number	Plant Name	Stream	State Name
IA105	FORT ATKINSON	TURKEY RIVER	IA

County Name	River Basin
WINNESHIEK	MINOR RIVER BASIN

Class	Owner Name
I	WEIST FEED MILL COMPANY

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
100.00	0.90	90.00	440.00	396

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4309.00 9155.00
C	ROR	XX	WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA106	LEHIGH	DES MOINES RIVER	IA

County Name	River Basin
WEBSTER	DES MOINES RIVER BASIN

Class	Owner Name
M	CITY OF LEHIGH

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
810.00	0.90	729.00	3600.00	3240

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4221.00
C	ROR	XX	WO	Longitude	9402.00

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA107	ROCKFORD	SHELL ROCK RIVER	IA

County Name	River Basin
FLOYD	MINOR RIVER BASIN

Class	Owner Name
M	FLOYD COUNTY CONSERVATION BOARD

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
150.00	0.90	135.00	660.00	594

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4303.00 9256.00
C	ROR	XX	WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA108	FORT DODGE MILLDAM	DES MOINES RIVER	IA

County Name	River Basin
WEBSTER	DES MOINES RIVER BASIN

Class	Owner Name
M	CITY OF FORT DODGE

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1760.00	0.90	1584.00	7700.00	6930

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4029.00
C	STG	XX	WO	Longitude	9411.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
IA109	BONAPARTE	DES MOINES RIVER	IA

County Name	River Basin
VAN BUREN	DES MOINES RIVER BASIN

Class	Owner Name
M	CITY OF BONAPARTE

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
2990.00	0.90	2691.00	13100.00	11790

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4042.00 9148.00
C	STG	XX	WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA110	LITTLE SIOUX DAM	LITTLE SIOUX RIVER	IA

County Name	River Basin
HARRISON	MINOR RIVER BASIN

Class	Owner Name
M	LITTLE SIOUX INTER COUNTY DRAINAGE

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
690.00	0.90	621.00	3020.00	2718

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	XX	WO	4151.00	9559.00

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA111	AMANA DAM	IOWA RIVER	IA

County Name	River Basin
IOWA	IOWA RIVER BASIN

Class	Owner Name
R	AMANA SOCIETY SERVICE COMPANY

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
280.00	0.90	252.00	1230.00	1107

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4147.00 9158.00
C	ROR		W		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA112	LYNNVILLE DAM	NORTH SKUNK RIVER	IA

County Name	River Basin
JASPER	MINOR RIVER BASIN

Class	Owner Name
M	JASPER COUNTY CONSERVATION BOARD

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
150.00	0.90	135.00	660.00	594

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4134.00
				Longitude	9246.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
IA113	ANAMOSA MILLDAM	WAPSIPINICON RIVER	IA

County Name	River Basin
JONES	MINOR RIVER BASIN

Class	Owner Name
P	IES UTITIES

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
700.00	0.90	630.00	3070.00	2763

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4206.00 9117.00
C	ROR		W		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA114	OXFORD MILLS	WAPSIPINICON RIVER	IA

County Name	River Basin
JONES	MINOR RIVER BASIN

Class	Owner Name
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P	IES UTILITIES
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
570.00	0.90	513.00	2500.00	2250

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4158.00 9057.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or		Threatened/Endangered Fish	0.90
Upstream/Downstream		Threatened/Endangered Wildlife	0.90
Wild/Scenic Location	0.90	Federal Land Code 103	0.90
Cultural Value	0.90	Federal Land Code 104	0.90
Fish Presence Value	0.90	Federal Land Code 105	0.90
Geologic Value	0.90	Federal Land Code 106	0.90
Historic Value	0.90	Federal Land Code 107	0.90
Other Value	0.90	Federal Land Code 108	0.90
Recreation Value	0.90	Federal Land Code 198	0.90
Scenic Value	0.90		

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FERC Number	Plant Name	Stream	State Name
IA115	PALISADES-KEPLER	CEDAR RIVER	IA

County Name	River Basin
LINN	MINOR RIVER BASIN

Class	Owner Name
M	IOWA CONSERVATION COMMISSION

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
2010.00	0.90	1809.00	8530.00	7677

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	XX	WO	4154.00	9130.00

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA116	TROY MILLS	WAPSIPINICON RIVER	IA

County Name	River Basin
LINN	MINOR RIVER BASIN

Class	Owner Name
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P	IES UTILITIES
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
330.00	0.90	297.00	1450.00	1305

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4217.00 9140.00
C	ROR	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or		Threatened/Endangered Fish	0.90
Upstream/Downstream		Threatened/Endangered Wildlife	0.90
Wild/Scenic Location	0.90	Federal Land Code 103	0.90
Cultural Value	0.90	Federal Land Code 104	0.90
Fish Presence Value	0.90	Federal Land Code 105	0.90
Geologic Value	0.90	Federal Land Code 106	0.90
Historic Value	0.90	Federal Land Code 107	0.90
Other Value	0.90	Federal Land Code 108	0.90
Recreation Value	0.90	Federal Land Code 198	0.90
Scenic Value	0.90		

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FERC Number	Plant Name	Stream	State Name
IA117	WAVERLY MILLDAM	CEDAR RIVER	IA

County Name	River Basin
BREMER	MINOR RIVER BASIN

Class	Owner Name
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M	CITY OF WAVERLY
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
580.00	0.90	522.00	2540.00	2286

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4244.00	Longitude	9228.00
C	ROR		W				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
IA118	QUASQUETON DAM	WAPSIPINICON RIVER	IA

County Name	River Basin
BUCHANAN	MINOR RIVER BASIN

Class	Owner Name
M	CITY OF QUASQUETON

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
250.00	0.90	225.00	1100.00	990

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	XX	WO	4224.00	9140.00

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA119	MASON CITY MILLDAM	WINNEBAGO RIVER	IA

County Name	River Basin
CERRO GORDO	MINOR RIVER BASIN

Class	Owner Name
I	AMERICAN CRYSTAL SUGAR

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
100.00	0.90	90.00	440.00	396

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4311.00
C	ROR	XX	WO	Longitude	9312.00

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA121	KLONDIKE MILLDAM	BIG SIOUX RIVER	IA

County Name	River Basin
LYON	MINOR RIVER BASIN

Class	Owner Name
M	STATES OF IOWA & SOUTH DAKOTA

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
440.00	0.90	396.00	1930.00	1737

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4323.00
C	ROR	XX	WO	Longitude	9631.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	0.90		Wildlife Value	0.90	
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	0.90	
Wild/Scenic Location	0.90		Threatened/Endangered Wildlife	0.90	
Cultural Value	0.90		Federal Land Code 103	0.90	
Fish Presence Value	0.90		Federal Land Code 104	0.90	
Geologic Value	0.90		Federal Land Code 105	0.90	
Historic Value	0.90		Federal Land Code 106	0.90	
Other Value	0.90		Federal Land Code 107	0.90	
Recreation Value	0.90		Federal Land Code 108	0.90	
Scenic Value	0.90		Federal Land Code 198	0.90	

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FERC Number	Plant Name	Stream	State Name
IA122	CLERMONT MILLDAM	TURKEY RIVER	IA

County Name	River Basin
FAYETTE	MINOR RIVER BASIN

Class	Owner Name
M	CITY OF CLERMONT

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
470.00	0.90	423.00	2060.00	1854

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4300.00 9139.00
C	ROR	XX	WO		

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA123	OTRANTO DAM	CEDAR RIVER	IA

County Name	River Basin
MITCHELL	MINOR RIVER BASIN

Class	Owner Name
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UNKNOWN

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
150.00	0.90	135.00	660.00	594

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	XX	WO	4327.00	9259.00

Factor	Exist	Prob	Factor	Exist	Prob
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Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or		Threatened/Endangered Fish	0.90
Upstream/Downstream		Threatened/Endangered Wildlife	0.90
Wild/Scenic Location	0.90	Federal Land Code 103	0.90
Cultural Value	0.90	Federal Land Code 104	0.90
Fish Presence Value	0.90	Federal Land Code 105	0.90
Geologic Value	0.90	Federal Land Code 106	0.90
Historic Value	0.90	Federal Land Code 107	0.90
Other Value	0.90	Federal Land Code 108	0.90
Recreation Value	0.90	Federal Land Code 198	0.90
Scenic Value	0.90		

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FERC Number	Plant Name	Stream	State Name
IA124	IOWA FALLS MILLDAM	IOWA RIVER	IA

County Name	River Basin
HARDIN	IOWA RIVER BASIN

Class		Owner Name		
P	IES UTILITIES			
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
540.00	0.90	486.00	2370.00	2133
Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude
C	ROR	ZZ	W	4231.00 9315.00

Factor	Exist Prob	Factor	Exist Prob
Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90

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FERC Number	Plant Name	Stream	State Name
IA125	CLARINDA DAM	NODAWAY RIVER	IA

County Name	River Basin
PAGE	MINOR RIVER BASIN

Class	Owner Name
M	CITY OF CLARINDA

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
140.00	0.90	126.00	620.00	558

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4044.00
C	ROR	XX	WO	Longitude	9500.00

Factor	Exist Prob	Factor	Exist Prob
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Wild/Scenic Protection	0.90	Wildlife Value	0.90
Wild/Scenic Tributary or Upstream/Downstream		Threatened/Endangered Fish	0.90
Wild/Scenic Location	0.90	Threatened/Endangered Wildlife	0.90
Cultural Value	0.90	Federal Land Code 103	0.90
Fish Presence Value	0.90	Federal Land Code 104	0.90
Geologic Value	0.90	Federal Land Code 105	0.90
Historic Value	0.90	Federal Land Code 106	0.90
Other Value	0.90	Federal Land Code 107	0.90
Recreation Value	0.90	Federal Land Code 108	0.90
Scenic Value	0.90	Federal Land Code 198	0.90