U.S. Hydropower

Resource Assessment

Indiana

U.S. Department of Energy, Idaho Operations Office

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U.S. Hydropower Resource Assessment for Indiana

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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 Indiana.

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U.S. Hydropower Resource Assessment for Indiana

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 Indiana. 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 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 30 sites (Table 1) have been identified and assessed for their undeveloped hydropower potential. The HES results for individual site capacities range from 4.5 kilowatts to 9 megawatts. Most of the sites have potential capacities of under 1 megawatt (Figure 1).

Table 1. Undeveloped hydropower potential summaries for Indiana. 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	3	15.9	8.0
W/O Power	24	50.8	33.7
Undeveloped	3	16.7	1.7
State Total	30	83.5	43.4

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

The nonmodeled undeveloped hydropower potential total for Indiana was identified as 84 megawatts. The HES results lowers this estimate about 48% to 43 megawatts. The greatest reduction in undeveloped hydropower potential occurs at sites with no physical structures present. These undeveloped sites have an HES-modeled undeveloped hydropower potential of 1.7 megawatts, a 90% reduction in estimated undeveloped hydropower potential (Figure 2). The number of sites

does not change, only the identified undeveloped hydropower potential is reassessed (Figure 3).

The 30 identified sites are located within 5 major river basins. The number of sites per major river basin range from 1 in the Cumberland River Basin to 12 sites in both the St. Joseph River Basin and the Wabash River Basin (Figure 5). The Wabash River Basin has the most undeveloped hydropower potential (23 MW) of the Indiana river basins (Figure 6).

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 Indiana. The appendices contain the following information:

Appendix A The undeveloped hydropower potential summary printout groups sites by dam status. The number of sites, nonmodeled undeveloped hydropower potential, and HES-modeled undevel-

oped 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. Subtotals are provided for each river basin.

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

Figure 4. Example of a developed hydroelectric plant in Indiana. This Hydroelectric plant and dam is the Twin Branch plant, on the St. Joseph River, with 4.8 megawatts of installed capacity. The additional undeveloped hydropower potential at this site is 3.8 megawatts.

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

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

Appendix C 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 30 sites in Indiana. 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.

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 Mas-

terCard); (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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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, MS 3830
Idaho Falls, ID 83415-3830
(208) 526-1002

Jim Francfort
Idaho National Engineering Laboratory
P.O. Box 1625, MS 3875
Idaho Falls, ID 83415-3875
(208) 526-6787

Software User's Manual, DOE/ID-10338,
Idaho National Engineering Laboratory, Idaho
Falls, Idaho.

REFERENCES

Francfort, J. E., S. D. Matthews, and B. N.
Rinehart, 1991, *Hydropower Evaluation*

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>
IN	With Power	3	15970	7985
	W/O Power	24	50844	33702.75
	Undeveloped	3	16705	1674.50
	STATE TOTAL	30	83519	43362.25
TOTALS	With Power	3	15970	7985
	W/O Power	24	50844	33702.75
	Undeveloped	3	16705	1674.50
GRAND TOTAL		30	83519	43362.25

Appendix B

River Basins Report

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HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** River Basin CUMBERLAND RIVER BASIN					
IN004	MARROWBONE MARROWBONE CR, CUMBERLAND R	U	5.00	0.90	4.50
** Subtotal **			5.00		4.50
** River Basin MAUMEE RIVER BASIN					
08851	FORT WAYNE MAUMEE R	WO	600.00	0.90	540.00
08852	CEDARVILLE ST JOSEPH R	WO	600.00	0.90	540.00
** Subtotal **			1200.00		1080.00
** River Basin OHIO MAIN STREAM					
IN003	VERSAILLES LAUGHERY CR, OHIO R	U	1700.00	0.10	170.00
07023	BROOKVILLE E FK WHITEWATER R	WO	12000.00	0.75	9000.00
IN006	BROOKVILLE E FK WHITEWATER R	WO	75.00	0.75	56.25
** Subtotal **			13775.00		9226.25
** River Basin ST JOSEPH RIVER BASIN					
07569	SOUTH BEND ST JOSEPH R	W	2670.00	0.50	1335.00
02579	TWIN BRANCH ST JOSEPH R	W	7540.00	0.50	3770.00
02651	ELKHART ST JOSEPH R	W	5760.00	0.50	2880.00
10895	MISHAWAKA ST JOSEPH R	WO	1480.00	0.50	740.00
10322	ELKHART ELKHART R	WO	500.00	0.90	450.00
11239	GOSHEN ELKHART R	WO	400.00	0.90	360.00

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
09761	BAINTER TOWN ELKHART R	WO	200.00	0.90	180.00
07847	BENTON ELKHART R	WO	300.00	0.75	225.00
08057	ONTARIO 2 PIGEON R	WO	100.00	0.90	90.00
08301	ONTARIO 1 PIGEON R	WO	100.00	0.90	90.00
08056	MONGO PIGEON R	WO	125.00	0.90	112.50
08055	NEVADA MILLS CROOKED CR,FAWN R	WO	100.00	0.90	90.00
** Subtotal **			19275.00		10322.50
** River Basin WABASH RIVER BASIN					
IN001	LOST RIVER E FK WHITE R	U	15000.00	0.10	1500.00
10138	PATOKA PATOKA R	WO	850.00	0.75	637.50
10137	MONROE SALT CR,WHITE R	WO	3800.00	0.50	1900.00
08675	CAGLES MILL MILL CR,EEL R	WO	1250.00	0.75	937.50
IN002	SPENCER W FK WHITE R	WO	15000.00	0.50	7500.00
10867	HOLLIDAY (NOBLEVILLE) W FK WHITE R	WO	384.00	0.50	192.00
10136	CECIL M HARDEN BIG RACCOON CR,WABASH R	WO	1000.00	0.75	750.00
09376	MISSISSINewa MISSISSINewa R	WO	4000.00	0.75	3000.00
10135	SALAMONIE SALAMONIE R	WO	2700.00	0.75	2025.00

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HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
10134	HUNTINGTON WABASH R	WO	3100.00	0.75	2325.00
IN005	OLD COMSTOCK MILL EEL RIVER	WO	300.00	0.90	270.00
11151	WILLIAMS E FK WHITE R	WO	1880.00	0.90	1692.00
** Subtotal **			49264.00		22729.00
*** Total ***			83519.00		43362.25

Appendix C
Indiana Sites Listing

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HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number IN001 LOST RIVER E FK WHITE R	IN	U	15000.00	0.10	1500.00
** Subtotal **			15000.00		1500.00
** FERC Number IN003 VERSAILLES LAUGHERY CR, OHIO R	IN	U	1700.00	0.10	170.00
** Subtotal **			1700.00		170.00
** FERC Number IN004 MARROWBONE MARROWBONE CR, CUMBERLAND R	IN	U	5.00	0.90	4.50
** Subtotal **			5.00		4.50
** FERC Number 02579 TWIN BRANCH ST JOSEPH R	IN	W	7540.00	0.50	3770.00
** Subtotal **			7540.00		3770.00
** FERC Number 02651 ELKHART ST JOSEPH R	IN	W	5760.00	0.50	2880.00
** Subtotal **			5760.00		2880.00
** FERC Number 07569 SOUTH BEND ST JOSEPH R	IN	W	2670.00	0.50	1335.00
** Subtotal **			2670.00		1335.00
** FERC Number 07023 BROOKVILLE E FK WHITEWATER R	IN	WO	12000.00	0.75	9000.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **					
			12000.00		9000.00
** FERC Number 07847					
BENTON	IN	WO	300.00	0.75	225.00
ELKHART R					
** Subtotal **					
			300.00		225.00
** FERC Number 08055					
NEVADA MILLS	IN	WO	100.00	0.90	90.00
CROOKED CR,FAWN R					
** Subtotal **					
			100.00		90.00
** FERC Number 08056					
MONGO	IN	WO	125.00	0.90	112.50
PIGEON R					
** Subtotal **					
			125.00		112.50
** FERC Number 08057					
ONTARIO 2	IN	WO	100.00	0.90	90.00
PIGEON R					
** Subtotal **					
			100.00		90.00
** FERC Number 08301					
ONTARIO 1	IN	WO	100.00	0.90	90.00
PIGEON R					
** Subtotal **					
			100.00		90.00
** FERC Number 08675					
CAGLES MILL	IN	WO	1250.00	0.75	937.50
MILL CR,EEL R					
** Subtotal **					
			1250.00		937.50

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number 08851 FORT WAYNE MAUMEE R	IN	WO	600.00	0.90	540.00
** Subtotal **			600.00		540.00
** FERC Number 08852 CEDARVILLE ST JOSEPH R	IN	WO	600.00	0.90	540.00
** Subtotal **			600.00		540.00
** FERC Number 09376 MISSISSINEWA MISSISSINEWA R	IN	WO	4000.00	0.75	3000.00
** Subtotal **			4000.00		3000.00
** FERC Number 09761 BAINTER TOWN ELKHART R	IN	WO	200.00	0.90	180.00
** Subtotal **			200.00		180.00
** FERC Number 10134 HUNTINGTON WABASH R	IN	WO	3100.00	0.75	2325.00
** Subtotal **			3100.00		2325.00
** FERC Number 10135 SALAMONIE SALAMONIE R	IN	WO	2700.00	0.75	2025.00
** Subtotal **			2700.00		2025.00
** FERC Number 10136 CECIL M HARDEN BIG RACCOON CR, WABASH R	IN	WO	1000.00	0.75	750.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **			1000.00		750.00
** FERC Number 10137 MONROE SALT CR, WHITE R	IN	WO	3800.00	0.50	1900.00
** Subtotal **			3800.00		1900.00
** FERC Number 10138 PATOKA PATOKA R	IN	WO	850.00	0.75	637.50
** Subtotal **			850.00		637.50
** FERC Number 10322 ELKHART ELKHART R	IN	WO	500.00	0.90	450.00
** Subtotal **			500.00		450.00
** FERC Number 10867 HOLLIDAY (NOBLEVILLE) W FK WHITE R	IN	WO	384.00	0.50	192.00
** Subtotal **			384.00		192.00
** FERC Number 10895 MISHAWAKA ST JOSEPH R	IN	WO	1480.00	0.50	740.00
** Subtotal **			1480.00		740.00
** FERC Number 11151 WILLIAMS E FK WHITE R	IN	WO	1880.00	0.90	1692.00
** Subtotal **			1880.00		1692.00

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HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number 11239 GOSHEN ELKHART R	IN WO	400.00	0.90	360.00
** Subtotal **		400.00		360.00
** FERC Number IN002 SPENCER W FK WHITE R	IN WO	15000.00	0.50	7500.00
** Subtotal **		15000.00		7500.00
** FERC Number IN005 OLD COMSTOCK MILL EEL RIVER	IN WO	300.00	0.90	270.00
** Subtotal **		300.00		270.00
** FERC Number IN006 BROOKVILLE E FK WHITEWATER R	IN WO	75.00	0.75	56.25
** Subtotal **		75.00		56.25
*** Total ***		83519.00		43362.25

Appendix D

Individual Resource Database Listing

R E S O U R C E D A T A B A S E L I S T I N G

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FERC Number	Plant Name	Stream	State Name
02579	TWIN BRANCH	ST JOSEPH R	IN

County Name	River Basin
ST JOSEPH	ST JOSEPH RIVER BASIN

Class	Owner Name
P	IN AND MI ELEC CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
7540.00	0.50	3770.00	20000.00	10000

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4141.00 8607.00
C	ROR	MO	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	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		0.90

R E S O U R C E D A T A B A S E L I S T I N G

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FERC Number	Plant Name	Stream	State Name
02651	ELKHART	ST JOSEPH R	IN

County Name	River Basin
ELKHART	ST JOSEPH RIVER BASIN

Class	Owner Name
P	IN AND MI ELEC CO

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
5760.00	0.50	2880.00	11000.00	5500

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4142.00 8600.00
C	ROR	MO	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	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		0.90

R E S O U R C E D A T A B A S E L I S T I N G

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FERC Number	Plant Name	Stream	State Name
07023	BROOKVILLE	E FK WHITEWATER R	IN

County Name	River Basin
FRANKLIN	OHIO MAIN STREAM

Class	Owner Name
M	FRANKLIN, COUNTY OF

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	3926.00 8500.00
	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	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
07569	SOUTH BEND	ST JOSEPH R	IN

County Name	River Basin
ST JOSEPH	ST JOSEPH RIVER BASIN

Class	Owner Name
M	SOUTH BEND,CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
2670.00	0.50	1335.00	14730.00	7365

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4139.00
C	ROR	LE	W	Longitude	8610.00

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		0.90

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FERC Number	Plant Name	Stream	State Name
07847	BENTON	ELKHART R	IN

County Name	River Basin
ELKHART	ST JOSEPH RIVER BASIN

Class	Owner Name
R	MICHIANA HYDRO-ELEC PWR CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
300.00	0.75	225.00	1971.00	1478.25

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4130.00
				Longitude	8646.00
	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
08055	NEVADA MILLS	CROOKED CR,FAWN R	IN

County Name	River Basin
STEUBEN	ST JOSEPH RIVER BASIN

Class	Owner Name
R	MICHIANA HYDRO-ELEC PWR CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
100.00	0.90	90.00	657.00	591.30

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
	ROR	XX	WO	4144.00	8506.00

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
08056	MONGO	PIGEON R	IN

County Name	River Basin
LAGRANGE	ST JOSEPH RIVER BASIN

Class	Owner Name
R	MICHIANA HYDRO-ELEC PWR CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
125.00	0.90	112.50	821.00	738.90

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4142.00
	ROR	XX	WO	Longitude	8517.00

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
08057	ONTARIO 2	PIGEON R	IN

County Name	River Basin
LAGRANGE	ST JOSEPH RIVER BASIN

Class	Owner Name
R	MICHIANA HYDRO-ELEC PWR CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
100.00	0.90	90.00	657.00	591.30

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4143.00
				Longitude	8526.00
	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
08301	ONTARIO 1	PIGEON R	IN

County Name	River Basin
LAGRANGE	ST JOSEPH RIVER BASIN

Class	Owner Name
R	MICHIANA HYDRO-ELEC PWR CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
100.00	0.90	90.00	657.00	591.30

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4142.00
	ROR	XX	WO	Longitude	8523.00

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
08675	CAGLES MILL	MILL CR,EEL R	IN

County Name	River Basin
PUTNAM	WABASH RIVER BASIN

Class	Owner Name
R	FIELD,ERNEST R

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1250.00	0.75	937.50	7600.00	5700

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3929.00	Longitude	8655.00
	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
08851	FORT WAYNE	MAUMEE R	IN

County Name	River Basin
ALLEN	MAUMEE RIVER BASIN

Class	Owner Name
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R	MICHIANA HYDRO-ELEC PWR CORP
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
600.00	0.90	540.00	3942.00	3547.80

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
	ROR	XX	WO	4104.00	8506.00

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
08852	CEDARVILLE	ST JOSEPH R	IN

County Name	River Basin
ALLEN	MAUMEE RIVER BASIN

Class	Owner Name
R	MICHIANA HYDRO-ELEC PWR CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
600.00	0.90	540.00	3942.00	3547.80

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
	ROR	XX	WO	4111.00	8500.00

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
09376	MISSISSINEWA	MISSISSINEWA R	IN

County Name	River Basin
MIAMI	WABASH RIVER BASIN

Class		Owner Name		
R		LAWSON-FISHER ASSOC		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
4000.00	0.75	3000.00	21000.00	15750

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4043.00 8558.00
	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
09761	BAINTER TOWN	ELKHART R	IN

County Name	River Basin
ELKHART	ST JOSEPH RIVER BASIN

Class	Owner Name
R	MICHIANA HYDRO ELEC PWR CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
200.00	0.90	180.00	500.00	450

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
	ROR	XX	WO	4130.00	8550.00

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
10134	HUNTINGTON	WABASH R	IN

County Name	River Basin
HUNTINGTON	WABASH RIVER BASIN

Class	Owner Name
R	HUNTINGTON HYDRO ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
3100.00	0.75	2325.00	19500.00	14625

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4051.00 8528.00
	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
10135	SALAMONIE	SALAMONIE R	IN

County Name	River Basin
WABASH	WABASH RIVER BASIN

Class	Owner Name
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R	SALAMONIE HYDRO ASSOC
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
2700.00	0.75	2025.00	9000.00	6750

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4049.00
	ROR	XX	WO	Longitude	8541.00

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	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
10136	CECIL M HARDEN	BIG RACCOON CR,WABASH R	IN

County Name	River Basin
PARKE	WABASH RIVER BASIN

Class	Owner Name
R	HARDEN HYDRO ASSOC L

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1000.00	0.75	750.00	6400.00	4800

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3943.00
				Longitude	8704.00
	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
10137	MONROE	SALT CR,WHITE R	IN

County Name	River Basin
MONROE	WABASH RIVER BASIN

Class	Owner Name
R	MONROE HYDRO ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
3800.00	0.50	1900.00	10600.00	5300

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3900.00 8631.00
	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	Y	0.75	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
10138	PATOKA	PATOKA R	IN

County Name	River Basin
DUBOIS	WABASH RIVER BASIN

Class		Owner Name		
R		PATOKA HYDRO ASSOC		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
850.00	0.75	637.50	5100.00	3825

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3826.00
				Longitude	8637.00
	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
10322	ELKHART	ELKHART R	IN

County Name	River Basin
ELKHART	ST JOSEPH RIVER BASIN

Class	Owner Name
M	ELKHART, CITY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
500.00	0.90	450.00	2400.00	2160

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4141.00
	ROR	XX	WO	Longitude	8558.00

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
10867	HOLLIDAY (NOBLEVILLE)	W FK WHITE R	IN

County Name	River Basin
HAMILTON	WABASH RIVER BASIN

Class	Owner Name
R	HOLLIDAY HISTORIC RESTORATION ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
384.00	0.50	192.00	1200.00	600

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4003.00
				Longitude	8602.00
	ROR	PO	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	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	Y	0.75	Federal Land Code 106		0.90
Other Value	Y	0.75	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
10895	MISHAWAKA	ST JOSEPH R	IN

County Name	River Basin
ST JOSEPH	ST JOSEPH RIVER BASIN

Class	Owner Name
R	MICHIANA HYDRO-ELEC PWR CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1480.00	0.50	740.00	11000.00	5500

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
				4138.00	8604.00
	ROR	NA	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		0.90

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FERC Number	Plant Name	Stream	State Name
11151	WILLIAMS	E FK WHITE R	IN

County Name	River Basin
LAWRENCE	WABASH RIVER BASIN

Class		Owner Name		
R		ENERGY ALTERNATIVES OF N A INC		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1880.00	0.90	1692.00	10660.00	9594

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3847.00 8639.00
	ROR	MO	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
11239	GOSHEN	ELKHART R	IN

County Name	River Basin
ELKHART	ST JOSEPH RIVER BASIN

Class	Owner Name
M	ELKHART, COUNTY OF

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
400.00	0.90	360.00	2223.00	2000.70

Unit Type	Plant Type	Project Status	Dam Status	Latitude	4135.00
				Longitude	8549.00
	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		0.90

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FERC Number	Plant Name	Stream	State Name
IN001	LOST RIVER	E FK WHITE R	IN

County Name	River Basin
MARTIN	WABASH 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)
15000.00	0.10	1500.00	70000.00	7000

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3819.00 8634.00
	ROR		U		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.10	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	Y	0.25	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	Y	0.50	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
IN002	SPENCER	W FK WHITE R	IN

County Name	River Basin
OWEN	WABASH 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)
15000.00	0.50	7500.00	60000.00	30000

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3947.00	Longitude	8627.00
	STG		WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	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	Y	0.75
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	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
IN003	VERSAILLES	LAUGHERY CR, OHIO R	IN

County Name	River Basin
RIPLEY	OHIO MAIN STREAM

Class	Owner Name
M	DEPT OF NAT RESOURCES

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1700.00	0.10	170.00	3000.00	300

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3905.00
				Longitude	8514.00
	STG		U		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.10	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	0.25	Federal Land Code 108		0.90
Scenic Value	Y	0.50	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
IN004	MARROWBONE	MARROWBONE CR,CUMBERLAND R	IN

County Name	River Basin
DUBOIS	CUMBERLAND RIVER BASIN

Class	Owner Name
R	EVANS,FOREST F

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
5.00	0.90	4.50	39.00	35.10

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3617.00 8654.00
	ROR		U		

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
IN005	OLD COMSTOCK MILL	EEL RIVER	IN

County Name	River Basin
WABASH	WABASH RIVER BASIN

Class		Owner Name		
R		HICKERSON, DAN		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
300.00	0.90	270.00	1314.00	1182.60

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	4103.00 8549.00
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		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
IN006	BROOKVILLE	E FK WHITEWATER R	IN

County Name	River Basin
FRANKLIN	OHIO MAIN STREAM

Class	Owner Name
F	CORPS OF ENGINEERS

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
75.00	0.75	56.25	0.00	0

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3926.00 8500.00
	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	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