

ANNUAL REPORT
of the
*GREAT LAKES REGIONAL WATER USE
DATABASE REPOSITORY*

REPRESENTING 2004 WATER USE DATA IN GALLONS

Prepared by

The Great Lakes Commission

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ACKNOWLEDGEMENTS

The primary author of this report is Marilyn Ratliff, working under contract to the Great Lakes Commission. Thomas R. Crane, Program Manager of Resource Management at the Great Lakes Commission, provided oversight and overall guidance.

The Great Lakes Commission wishes to thank each of the jurisdictional representatives listed on page eight for applying their years of expertise toward the coalescing of the data for this report. Their attention to detail and commitment to accuracy, in addition to their combined familiarity with the subject matter, contribute greatly to the value of this project.

FOREWARD

The Great Lakes Regional Water Use Database partially fulfills the recommendation in the Great Lakes Charter of 1985 that calls for a uniform, consistent base of data of Great Lakes water withdrawals, diversions and consumptive uses. Water use data are submitted to the repository on an annual basis and reports are provided to assist the jurisdictions in Great Lakes-St. Lawrence River water resources planning and management. As specified by the Water Resources Management Committee in its 1987 report, *Managing the Waters of the Great Lakes Basin*, the database catalogs withdrawals by water use category, sub-basin and jurisdiction.

The operation and use of this database represents one of several ongoing activities on behalf of the Great Lakes states and provinces to fulfill aspects of the Charter and Charter Annex of 2001. Continued state and provincial involvement in refining and expanding the database is necessary to ensure that the database can reinforce other potential future Charter and Charter Annex activities, such as improving consumptive use information, conducting trend analyses, developing uniform and consistent demand forecasting applications and promoting regional water conservation programs.

The database became operational in the summer of 1988 following a multi-year cooperative effort. Design and development involved input from many state, provincial, and federal agencies, with the U.S. Geological Survey providing much of the leadership.

The customized program was developed in 1987 by Acres International on the MS/DOS platform using a modified version of DbaseIII. With the rapid advancement of computer hardware and software and the evolving needs of the Great Lakes state and provincial water resources management programs, the old system soon became outdated. In July 1998, the Great Lakes Commission and Eastern Michigan University's Institute for Geospatial Research and Education (formerly the Center for Environmental Information Technology and Application) began work on the revised database. The new system was developed using Visual Basic for Applications, based on Microsoft Access®, and contains all of the functions of the old system (including data entry, a data check facility and report generation), in addition to new features such as a flexible data interface and automatic data checking.

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I. GREAT LAKES BASIN OVERVIEW

Introduction

All data are submitted in one of two unit measures--millions of U.S. gallons per day (mgd) or millions of liters per day (mld)--and values are initially set to zero. Numeric values are required for all categories of use. A value of zero indicates either zero water use (under All Facilities) or water use which does not meet the Great Lakes Charter trigger level (under Principal Facilities).

The quality of data for each entry is rated as a 1, 2 or 3 indicating the level of accuracy as 1) measured 2) partially measured or 3) estimated; and a 1 or 2 indicating the level of aggregation as 1) originating from site-specific sources or 2) from higher level aggregate sources such as county or census databases. Both measures of quality are based on percentages of total volume.

For this report, self-supply--hydroelectric (water used in the generation of electricity at plants where turbine generators are driven by falling water) is treated as a withdrawal, even though all water for this purpose is considered to be returned to the basin. As the following chart illustrates, this is the largest single category of withdrawal and represents 95% of the total amount of water “withdrawn” in 2004.

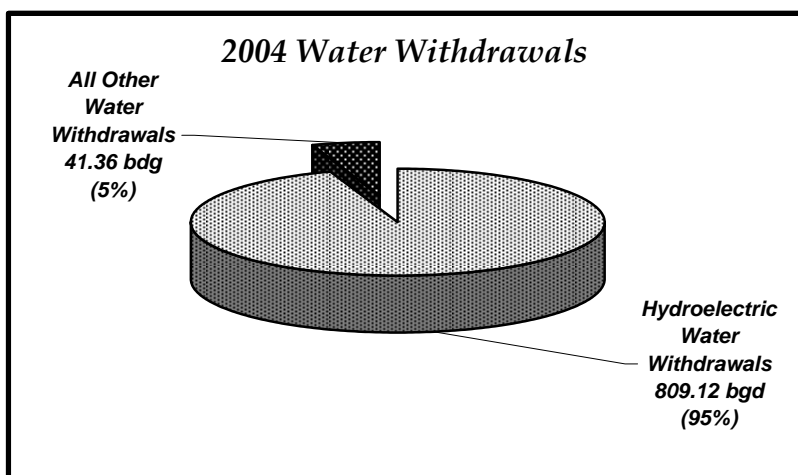


Figure 1

Each of the ten jurisdictions' water uses is represented in Figure 2 and Figure 3. Figure 2 includes self-supply – hydroelectric use. In total, water withdrawals for the year 2004 were approximately 850 billion gallons per day, or about 3,219 billion liters per day.

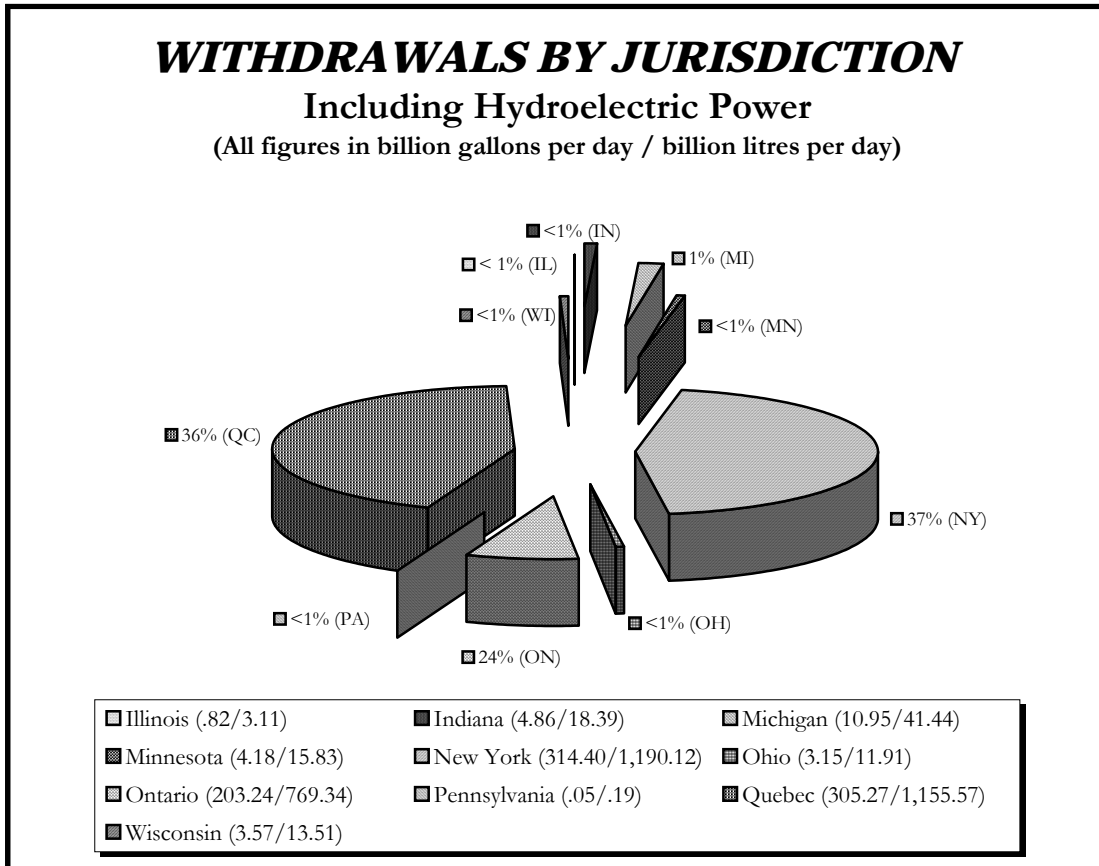


Figure 2

Figure 3 more accurately reflects the true water use within the basin, as it does not include self-supply – hydroelectric use. Water withdrawals for the eight remaining off-stream categories totaled 41 billion gallons per day, or 156 billion liters per day.

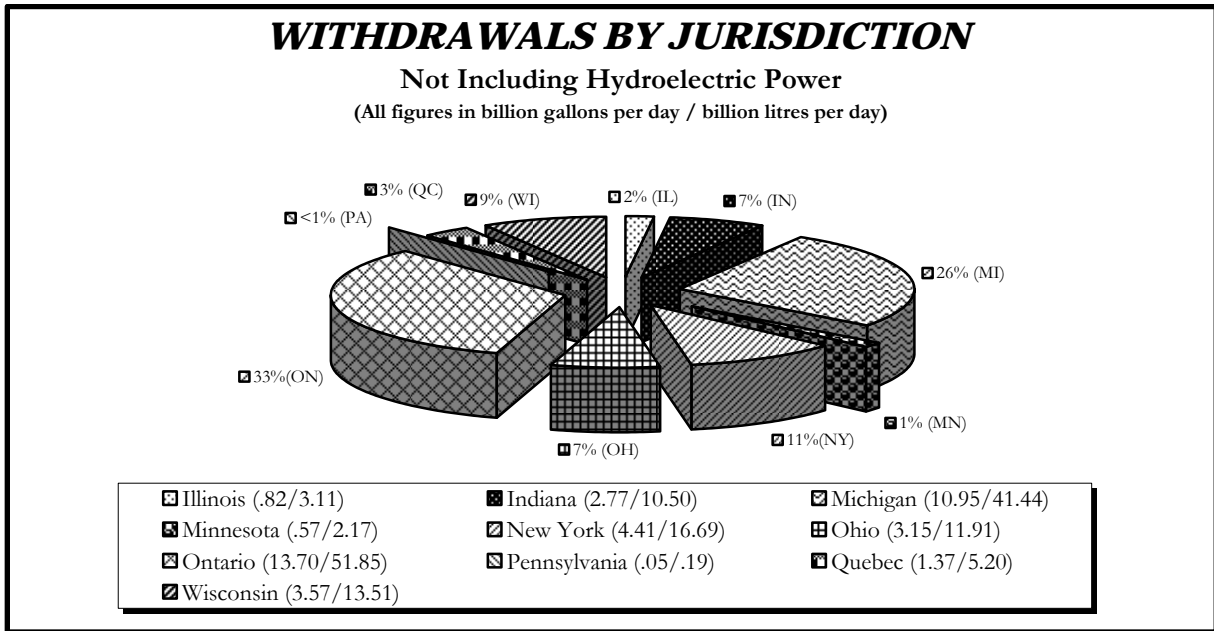


Figure 3

Pie charts showing individual jurisdictional water use, beginning with Illinois on page 14, are in million gallons per day and do not include hydroelectric use

Topics of Interest

Diversions

Two types of diversions are reported by the water use database: interbasin (transfers that take place between the Great Lakes basin and another watershed) and intrabasin (transfers that take place between one of the Great Lakes watersheds and another); both types can be either incoming or outgoing.

Of the two types, interbasin diversions (transfers that take place between the Great Lakes basin and another watershed) have traditionally been of greater interest to water supply managers and the public. Interbasin diversions shown in the tables as a positive number (e.g. **without** a minus sign) indicate water leaving the Great Lakes basin; interbasin diversions shown in the tables as a negative number (e.g. **with** a minus sign) indicate water entering the Great Lakes basin.

For a history of Great Lakes water diversions and removals, please see *Great Lakes Diversions and Other Removals* by Frank Quinn and Jeff Edstrom, **Canadian Water Resources Journal**, 2000, vol. 25, #2. Copies of this article can be obtained through the CWRJ website at www.cwra.org/publications, or by calling 519/622-4764.

Consumptive Use

Collecting and reporting accurate data for consumptive uses of Great Lakes water continues to be a major challenge for the Great Lakes jurisdictions. The states and provinces currently use a variety of methods to obtain consumptive use figures, including measurement and estimation at the facility level. However, the most common practice is to calculate consumptive use for each water use category by multiplying the withdrawn amount by an agreed-upon percentage (consumptive use coefficient). Figure 4 on the following page shows the consumptive use coefficients that were used for this report. For the resulting consumptive use quantities by jurisdiction, basin or water use category, please refer to the tables in chapters II through V. Total consumptive use in the basin for 2004 was calculated to be 1.90 bgd (7.20 bld).

For a more detailed overview, please see:

Annotated Bibliography of Consumptive Use in the Great Lakes Region and Basin
(www.glc.org/wateruse/wrmdss/finalreport/pdf/CU_biblio.pdf)

Measuring and Estimating Consumptive Use of Great Lakes Water
(www.glc.org/wateruse/wrmdss/finalreport/pdf/CU_briefing.pdf).

Consumptive Use Coefficients

<i>Water Use Category</i>	ILLINOIS	INDIANA	MICHIGAN	MINNESOTA	NEW YORK	OHIO	ONTARIO	PENNSYLVANIA	QUEBEC	WISCONSIN
Public Supply	10-15%	15%	10-15%	10-15%	10%	10-15%	15%	10%	10-15%	10-15%
Self-Supply Domestic	10-15%	15%	10-15%	10-15%	10%	10-15%	15%	10%	10-15%	10-15%
Self-Supply Irrigation	90%	90%	90%	90%	90%	90%	78%	90%	90%	70%
Self-Supply Livestock	80%	80%	80%	80%	90%	80%	80%	80%	80%	90%
Self-Supply Industrial	Varies by plant & SIC code	6%	10-15%	Varies by plant & SIC code	25%	10%; salt mining is 90%	Varies by plant & SIC code	Varies by plant & SIC code	10% for pulp & paper industry	10.2% for manufacturing & mining
Self-Supply Thermoelectric (Fossil Fuel)	Individually estimated based on the quantity of make-up water	2%	1-2% for plants using once-through cooling; individual analysis for wet cooling towers	2%	2%	Individually estimated based on the quantity of make-up water	.9% based on reports of increased local lake evaporation due to discharge of heated water to lakes	NA (Pennsylvania has no facilities in the basin)	10%; estimates obtained from USGS report	.5-1%
Self-Supply Thermoelectric (Nuclear)	Individually estimated based on the quantity of make-up water	NA (Indiana has no facilities in the basin)	1-2% for plants using once-through cooling; individual analysis for wet cooling towers	NA (Minnesota has no facilities in the basin)	5%	14% based on reports of increased local lake evaporation due to discharge of heated water to lakes	.9% based on reports of increased local lake evaporation due to discharge of heated water to lakes	NA (Pennsylvania has no facilities in the basin)	NA (Quebec has no facilities in the basin)	.5-1%
Hydroelectric	Coefficient for all states and provinces is 0%									
Self-Supply Other	0%	12%	Varies based on use	Varies based on use	Varies based on use	Varies based on use	Varies based on use	Varies based on use	Varies based on use	Varies based on use

Figure 4

Definitions and Abbreviations

General Definitions and Abbreviations

- ▶ **bgd**: billion gallons per day
- ▶ **bld**: billion liters per day
- ▶ **consumptive use**: that portion of water withdrawn or withheld from the Great Lakes basin and assumed to be lost or otherwise not returned to the Great Lakes basin due to evapotranspiration, incorporation into products, or other processes
- ▶ **Great Lakes surface water (GLSW)**: the Great Lakes, their connecting channels (the St. Clair River, the Detroit River, the Niagara River and the St. Marys River), and the St. Lawrence River
- ▶ **groundwater (GW)**: all subsurface water
- ▶ **interbasin diversion (positive)**: water transferred from the Great Lakes basin into another watershed
- ▶ **interbasin diversion (negative)**: water transferred from another watershed into the Great Lakes basin
- ▶ **intra-basin diversion (positive)**: water transferred out of one Great Lakes watershed into another
- ▶ **intra-basin diversion (negative)**: water transferred into one Great Lakes watershed from another
- ▶ **level of accuracy**: the quality of data based on percentage of total volume and rated as 1) measured; 2) partially measured or: 3) estimated,
- ▶ **level of aggregation**: the quality of data based on percentage of total volume and rated as 1) originating from site-specific sources or 2) originating from higher level aggregate sources, such as county or census databases
- ▶ **mgd**: million gallons per day
- ▶ **mld**: million liters per day
- ▶ **other surface water (OSW)**: tributary streams, lakes, ponds, and reservoirs within the Great Lakes basin
- ▶ **principal facility**: facilities withdrawing in excess of the Great Lakes Charter uniform trigger level of 100,000 U.S. gallons/day (380,000 liters/day) average over a 30-day period. A principal facility is determined by the total withdrawal (or consumption) of all sources combined (Great Lakes surface water, other surface water, and groundwater) rather than a single source. The combined withdrawals (or consumption) of separate wells or operations undertaken by the same facility or company will be evaluated separately for the purpose of determining principal facility status unless those operations are covered under the same registration (or permit) or are physically contiguous. Principal facilities are a subset of all facilities in the database.
- ▶ **tgd**: trillion gallons per day
- ▶ **tld**: trillion liters per day
- ▶ **withdrawal amount**: water removed or taken from surface or groundwater (including hydroelectric use)

Water Use Category Definitions

1. **Public Water Supply:** Water withdrawn for all uses by public and private water suppliers and delivered to users that do not supply their own water. (Water suppliers provide water for a variety of uses such as residential, commercial, industrial, and public water use.)
2. **Self-Supply Domestic: (residential, commercial, institutional):** Water used for normal household purposes. Also referred to as residential water use, this category includes water used for drinking, food preparation, bathing, washing clothes and dishes, flushing toilets, and watering lawns. Commercial uses include water used by motels, hotels, restaurants, office buildings and institutions, both civilian and military. This category also includes water for mobile homes, hospitals, schools, fire fighting, air conditioning and other similar uses not covered under a public supply. In addition, this category includes amusement and recreational water uses such as snowmaking and water slides. The coefficient for domestic per capita water use is 75 gallons a day (U.S.) unless otherwise indicated by the reporting state or province.
3. **Self-Supply Irrigation:** Water artificially applied on lands to assist in the growing of crops and pastures or in the maintenance of recreational lands, such as parks and golf courses.
4. **Self-Supply Livestock:** Water used by horses, cattle, sheep, goats, hogs, poultry, and other commercially important animals. Water used in fish hatchery operations are also included under this category.
5. **Self-Supply Industrial (manufacturing and mining):** Industrial water includes water used in the manufacture of metals, chemicals, paper, and allied products. Mining water use includes water used in the extraction or washing of minerals; for example solids, such as coal and ores, and liquids such as crude petroleum and natural gas. Water used in quarrying and milling is also included in the industrial category. Brine extraction from oil and gas operations is not included. Withdrawals and consumptive uses for industrial and mining purposes (including dewatering operations) recorded under another category (e.g., public supply) will not be recorded here. Water used in a closed cycle (recirculation) will not be reported as a withdrawal. Other situations should be evaluated on a case-by-case basis.
6. **Self-Supply Thermoelectric Power (fossil fuel plants):** Water used by plants fueled by fossil fuels such as coal, oil or natural gas. Withdrawals and consumptive uses already recorded under another category (e.g., public supply) will not be reported here.
7. **Self-Supply Thermoelectric Power (nuclear plants):** Water used by plants fueled by nuclear generation. Withdrawals and consumptive uses already recorded under another category (e.g., public supply) will not be reported here.
8. **Self-Supply Hydroelectric Power:** Water used to drive turbines that generate electric power. This category includes both “instream use” where water is used on a once-through basis and “offstream use” where water is recycled through pumped-storage systems. Neither use is considered a consumptive use.
9. **Self-Supply - Other:** Water used for purposes not reported in categories one through nine. Examples include, but are not limited to, withdrawals for fish/wildlife, environmental, recreation, navigation, and water quality purposes. Specifically, water used to maintain levels for navigation, for recreation, for fish and wildlife habitat creation and enhancement (excluding fish hatchery operations included under Category 5), for flow augmentation (or diversion), for sanitation, pollution confinement, and other water quality purposes and agricultural activities (services) other than those directly related to irrigation such as field drainage are included. Water used in temporary or immediate emergency situations (e.g., fighting forest or peat fires) is also reported here.

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II. GREAT LAKES BASIN SUMMARY TABLES

Water Use by Jurisdiction
Water Use by Basin
Water Use by Category

SUMMARY REPORT - GREAT LAKES BASIN

Units: Bgal(US)/d

Year Of Data: 2004

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	0.82	0.00	0.00	0.82	0.00	1.22	0.02
Indiana	2.59	2.15	0.12	4.86	0.00	0.00	0.18
Michigan	9.71	0.71	0.53	10.95	0.00	0.00	0.59
Minnesota	0.32	3.86	0.01	4.18	0.00	0.00	0.04
New York	133.91	180.35	0.13	314.40	0.00	0.04	0.32
Ohio	2.09	0.91	0.14	3.15	0.00	-0.01	0.17
Ontario	143.00	59.96	0.28	203.24	0.06	-4.01	0.28
Pennsylvania	0.04	0.01	0.01	0.05	0.00	0.00	0.01
Quebec	171.59	133.58	0.10	305.27	0.00	0.00	0.16
Wisconsin	3.36	0.02	0.18	3.57	0.00	0.00	0.14
Total:	467.43	381.54	1.51	850.48	0.06	-2.76	1.90

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	0.82	0.00	0.00	0.82	0.00	1.22	0.02
Indiana	2.59	2.14	0.09	4.82	0.00	0.00	0.17
Michigan					0.00	0.00	
Minnesota	0.32	3.85	0.00	4.18	0.00	0.00	0.04
New York	133.49	0.48	0.01	133.98	0.00	0.04	0.22
Ohio	2.09	0.91	0.07	3.06	0.00	-0.01	0.15
Ontario	0.49	0.38	0.09	0.96	0.06	0.00	0.11
Pennsylvania	0.04	0.01	0.00	0.04	0.00	0.00	0.01
Quebec	171.59	133.58	0.05	305.21	0.00	0.00	0.13
Wisconsin					0.00	0.00	
Total:	311.43	141.34	0.31	453.08	0.06	1.25	0.85

SUMMARY REPORT - GREAT LAKES BASIN

Units: Bgal(US)/d
Year Of Data: 2004

Water-Use by Basin - All Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	1.14	42.03	0.03	43.19	0.00	-4.01	0.08
Lake Michigan	10.19	2.61	0.69	13.49	0.00	1.22	0.65
Lake Huron	25.95	13.73	0.09	39.76	0.05	0.00	0.14
Lake Erie	56.54	1.27	0.37	58.18	5.82	-0.01	0.49
Lake Ontario	42.68	89.42	0.19	132.29	-5.80	0.04	0.35
St. Lawrence River	330.94	232.49	0.14	563.56	0.00	0.00	0.19
Total:	467.43	381.54	1.51	850.48	0.06	-2.76	1.90

Water-Use by Basin - Principal Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	0.35	3.87	0.01	4.23	0.00	0.00	0.05
Lake Michigan	3.41	2.11	0.08	5.59	0.00	1.22	0.18
Lake Huron	0.04	0.07	0.02	0.13	0.05	0.00	0.01
Lake Erie	50.76	0.98	0.14	51.88	5.82	-0.01	0.24
Lake Ontario	2.25	0.65	0.02	2.92	-5.80	0.04	0.22
St. Lawrence River	254.62	133.66	0.05	388.34	0.00	0.00	0.15
Total:	311.43	141.34	0.31	453.08	0.06	1.25	0.85

SUMMARY REPORT - GREAT LAKES BASIN

Units: Bgal(US)/d

Year Of Data: 2004

Water Use by Category - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	3.14	1.14	0.55	4.83	0.00	1.01	0.60
Domestic Supply	0.04	0.04	0.37	0.46	0.00	0.00	0.06
Irrigation	0.01	0.16	0.29	0.46	0.00	0.00	0.34
Livestock	0.01	0.01	0.11	0.14	0.00	0.00	0.09
Industrial	3.82	0.46	0.17	4.45	0.00	0.00	0.38
Fossil Fuel Power	13.82	1.70	0.00	15.52	0.00	0.00	0.18
Nuclear Power	15.25	0.00	0.00	15.25	0.00	0.00	0.23
Hydroelectric Power	431.34	377.77	0.00	809.12	0.00	-4.01	0.00
Other	0.00	0.25	0.00	0.25	0.06	0.24	0.03
Total:	467.43	381.54	1.51	850.48	0.06	-2.76	1.90

Water Use by Category - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1.67	0.82	0.18	2.66	0.00	1.01	0.34
Domestic Supply	0.00	0.04	0.06	0.10	0.00	0.00	0.01
Irrigation	0.00	0.02	0.02	0.03	0.00	0.00	0.03
Livestock	0.00	0.00	0.00	0.01	0.00	0.00	0.01
Industrial	2.30	0.34	0.06	2.70	0.00	0.00	0.24
Fossil Fuel Power	4.55	1.23	0.00	5.78	0.00	0.00	0.10
Nuclear Power	1.56	0.00	0.00	1.56	0.00	0.00	0.08
Hydroelectric Power	301.33	138.64	0.00	439.97	0.00	0.00	0.00
Other	0.00	0.25	0.00	0.25	0.06	0.24	0.03
Total:	311.43	141.34	0.31	453.08	0.06	1.25	0.85

III. JURISDICTION TABLES AND ANALYSES

Each jurisdictional summary includes a water use analysis and three tables:

Withdrawals, Diversions and Consumptive Uses

Withdrawals by Source

Jurisdiction Totals

Illinois
Indiana
Michigan
Minnesota
New York
Ohio
Ontario
Pennsylvania
Quebec
Wisconsin

Illinois

Data Sources: Water use data for Illinois was provided by the Department of Natural Resources--Office of Water Resources, and the State Water Survey. Please contact James Casey at 312/793-5947 or jcasey@illinois.gov with questions regarding Illinois' data.

Withdrawals: Illinois' water withdrawals from Lake Michigan in 2004 totaled 2,044.42 mgd which was comparable to usage in 2003.

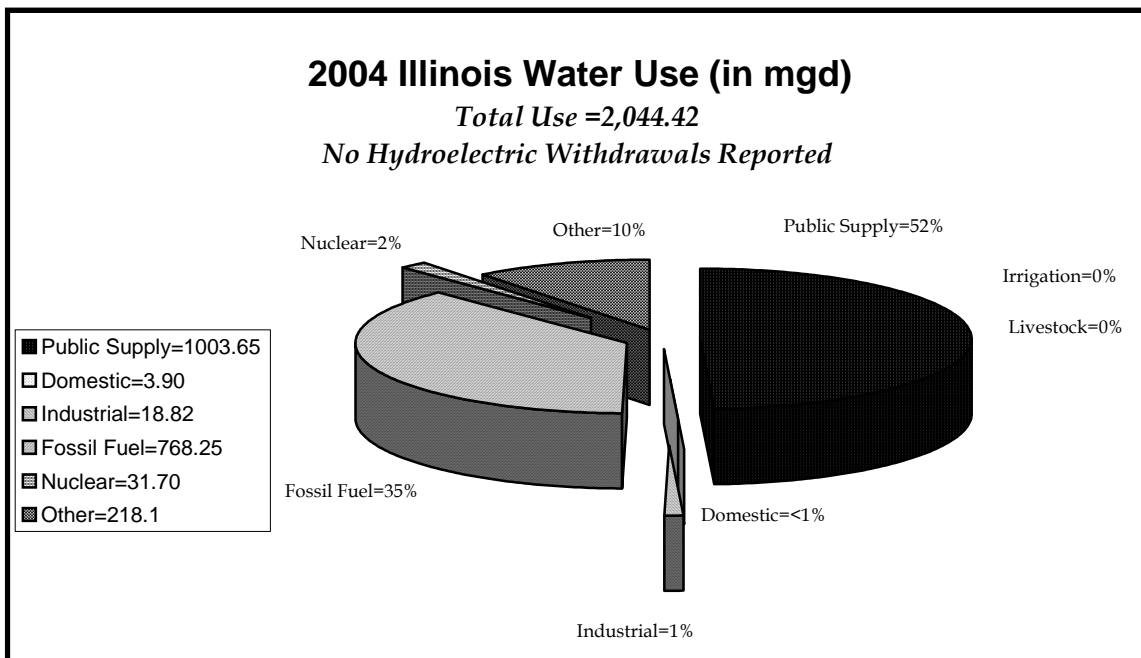


Figure 5

Consumptive Use: Total consumptive use was calculated to be 17.20 mgd, with fossil fuel consuming the most at 15.37 mgd or 89%.

Interbasin Diversions: Total diversions from the Lake Michigan basin in 2004 were 1,221.81 mgd, a decrease of about less than 1% from the 2003 figure. Public water supply accounted for about 82% of these diversions. All diversions for Illinois are outgoing interbasin diversions—water transferred from the Chicago River in the Great Lakes basin to the Illinois River in the Mississippi River basin.

Data Quality: Illinois' withdrawal data for this report were 100% measured; the level of aggregation was 100% site-specific.

JURISDICTION REPORT - Illinois

Withdrawals, Diversions Units: Mgal(US)/d
and Consumptive Uses Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Michigan							
	Public Supply	1003.65	1003.65	0.00	1003.65	1003.65	0.00
	Domestic Supply	3.90	0.04	0.39	3.90	0.04	0.39
	Irrigation		0.00		0.00	0.00	
	Livestock		0.00		0.00	0.00	
	Industrial	18.82	0.02	1.13	18.82	0.00	1.13
	Fossil Fuel Power	768.25	0.00	15.37	768.25	0.00	15.37
	Nuclear Power	31.70	0.00	0.32	31.70	0.00	0.32
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	218.10	218.10	0.00	218.10	218.10	0.00
	Total:	2044.42	1221.81	17.20	2044.42	1221.79	17.20
Grand Total:		2044.42	1221.81	17.20	2022.42	1221.79	17.20

JURISDICTION REPORT - Illinois

Withdrawals by Source

Units: Mgal(US)/d
Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Michigan							
	Public Supply	0.00	0.00	0.00	0.00	0.00	0.00
	Domestic Supply	3.87	0.00	0.02	3.87	0.00	0.02
	Irrigation				0.00	0.00	0.00
	Livestock				0.00	0.00	0.00
	Industrial	18.82	0.00	0.00	18.82	0.00	0.00
	Fossil Fuel Power	768.25	0.00	0.00	768.25	0.00	0.00
	Nuclear Power	31.70	0.00	0.00	31.70	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	Total:	822.64	0.00	0.02	822.64	0.00	0.02
Grand Total:		822.64	0.00	0.02	822.64	0.00	0.02

JURISDICTION REPORT - Illinois

Jurisdiction Totals

Units: Mgal(US)/d
Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	0.00	0.00	0.00	0.00	0.00	1003.65	0.00
Domestic Supply	3.87	0.00	0.02	3.90	0.00	0.04	0.39
Irrigation					0.00	0.00	
Livestock					0.00	0.00	
Industrial	18.82	0.00	0.00	18.82	0.00	0.02	1.13
Fossil Fuel Power	768.25	0.00	0.00	768.25	0.00	0.00	15.37
Nuclear Power	31.70	0.00	0.00	31.70	0.00	0.00	0.32
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	218.10	0.00

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	0.00	0.00	0.00	0.00	0.00	1003.65	0.00
Domestic Supply	3.87	0.00	0.02	3.90	0.00	0.04	0.39
Irrigation	0.00	0.00	0.00	0.00	0.00	0.00	
Livestock	0.00	0.00	0.00	0.00	0.00	0.00	
Industrial	18.82	0.00	0.00	18.82	0.00	0.00	1.13
Fossil Fuel Power	768.25	0.00	0.00	768.25	0.00	0.00	15.37
Nuclear Power	31.70	0.00	0.00	31.70	0.00	0.00	0.32
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	218.10	0.00

Indiana

Data Sources: The Indiana Department of Natural Resources—Division of Water compiled the 2004 data for the regional water use database for the Lake Erie and Lake Michigan basins.

The Indiana Business Research Center at Indiana University provided population estimates for counties used in calculating self-supply domestic withdrawals. The Indiana Agricultural Statistics service at Purdue University provided livestock estimates by county. The local office of USGS Water Resources Division provided estimates of percent of population by county on domestic wells. Hydroelectric data are from the Department of Energy’s Energy Information Administration website located at www.eia.doe.gov/cneaf/electricity. Please contact Ralph Spaeth at 317/234-1101 or rspaeth@dnr.in.gov with questions regarding Indiana’s data.

Withdrawals: In 2004, total use was 2,774.11 mgd, down from the 2003 figure of 2,681.08 mgd. Of this amount, 98% of the water used was from Lake Michigan. The total use excludes hydroelectric power from Lake Michigan which accounted for 2082.75 mgd. The primary use of Lake Michigan water was industrial, at 1,742.87 mgd, or 63%. The primary use of Lake Erie water was public supply, at 42.10 mgd, or more than 70%.

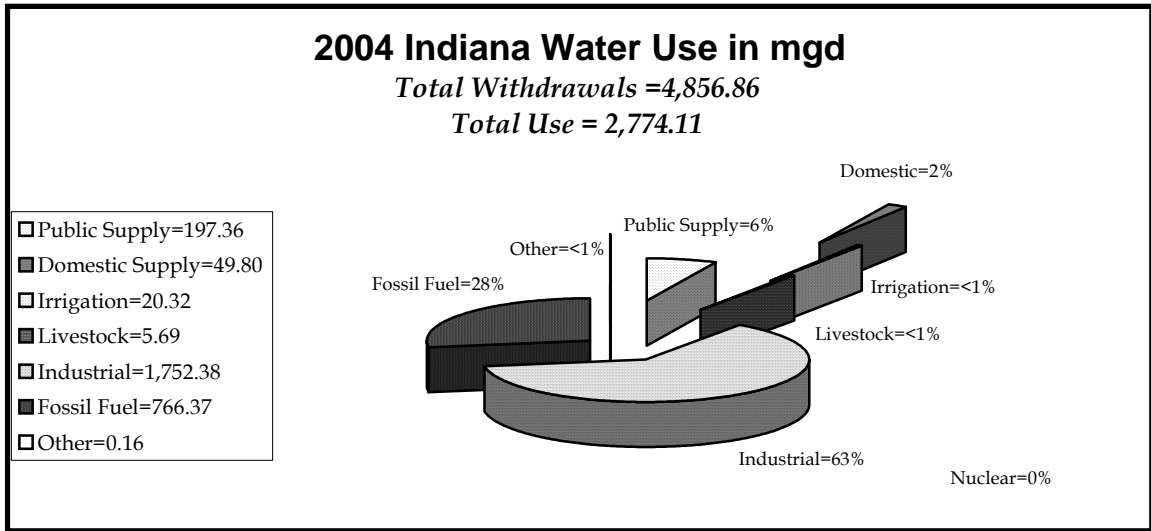


Figure 6

Consumptive Use: The total consumptive use of water in Indiana’s portion of the Great Lakes basin was 177.71 mgd, compared to 179.49 mgd in 2003. In the Lake Michigan basin, industrial was the largest consumptive use, at 62% (104.57 mgd of a total of 168.31 mgd) and in the Lake Erie basin public supply was the largest consumptive use, at 67% (6.31 mgd of a total of 9.40 mgd).

Interbasin Diversions: A diversion by the city of Valparaiso withdrew 0.81 mgd groundwater for public supply from the Kankakee River basin which is discharged as treated sewage into Salt Creek in the Lake Michigan basin.

Data Quality: Indiana’s withdrawal data for this report were 4% measured, 52% partially measured, and 44% calculated or estimated; the level of aggregation was 99% site-specific and 1% aggregated.

JURISDICTION REPORT- Indiana

Withdrawals, Diversions Units: Mgal(US)/d
and Consumptive Uses Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Michigan							
	Public Supply	137.29	-0.81	20.59	136.91	0.00	20.53
	Domestic Supply	43.56	0.00	6.54	21.29	0.00	3.20
	Irrigation	19.40	0.00	17.46	18.04	0.00	16.24
	Livestock	4.76	0.00	3.81	2.71	0.00	2.17
	Industrial	1742.87	0.00	104.57	1742.34	0.00	104.54
	Fossil Fuel Power	766.10	0.00	15.32	766.10	0.00	15.32
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	2082.75	0.00	0.00	2082.75	0.00	0.00
	Other	0.16	0.00	0.02	0.09	0.00	0.01
	Total:	4796.89	-0.81	168.31	4770.23	0.00	162.01
Lake Erie							
	Public Supply	42.10	0.00	6.31	42.03	0.00	6.30
	Domestic Supply	6.24	0.00	0.94	0.33	0.00	0.05
	Irrigation	0.92	0.00	0.83	0.64	0.00	0.58
	Livestock	0.93	0.00	0.74	0.00	0.00	0.00
	Industrial	9.51	0.00	0.57	9.34	0.00	0.56
	Fossil Fuel Power	0.27	0.00	0.01	0.27	0.00	0.01
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	Total:	59.97	0.00	9.40	52.61	0.00	7.50
Grand Total:		4856.86	-0.81	177.71	4822.84	0.00	169.51

JURISDICTION REPORT- Indiana

Withdrawals by Source

Units: Mgal(US)/d

Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Michigan							
	Public Supply	92.49	0.00	44.80	92.49	0.00	44.42
	Domestic Supply	0.00	13.86	29.70	0.00	13.85	7.44
	Irrigation	0.00	4.34	15.06	0.00	3.88	14.16
	Livestock	0.00	1.36	3.40	0.00	1.36	1.35
	Industrial	1728.97	4.91	8.99	1728.94	4.90	8.50
	Fossil Fuel Power	766.10	0.00	0.00	766.10	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	2082.75	0.00	0.00	2082.75	0.00
	Other	0.00	0.03	0.13	0.00	0.03	0.06
	Total:	2587.56	2107.25	102.08	2587.53	2106.77	75.93
Lake Erie							
	Public Supply	0.00	32.60	9.50	0.00	32.60	9.43
	Domestic Supply	0.00	0.00	6.24	0.00	0.00	0.33
	Irrigation	0.00	0.31	0.61	0.00	0.19	0.45
	Livestock	0.00	0.00	0.93	0.00	0.00	0.00
	Industrial	0.00	4.86	4.65	0.00	4.86	4.48
	Fossil Fuel Power	0.00	0.00	0.27	0.00	0.00	0.27
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	Total:	0.00	37.77	22.20	0.00	37.65	14.96
Grand Total:		2587.56	2145.02	124.28	2587.53	2144.42	90.89

JURISDICTION REPORT- Indiana

Jurisdiction Totals

Units: Mgal(US)/d
Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	92.49	32.60	54.30	179.39	0.00	-0.81	26.90
Domestic Supply	0.00	13.86	35.94	49.80	0.00	0.00	7.48
Irrigation	0.00	4.65	15.67	20.32	0.00	0.00	18.29
Livestock	0.00	1.36	4.33	5.69	0.00	0.00	4.55
Industrial	1728.97	9.77	13.64	1752.38	0.00	0.00	105.14
Fossil Fuel Power	766.10	0.00	0.27	766.37	0.00	0.00	15.33
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	2082.75	0.00	2082.75	0.00	0.00	0.00
Other	0.00	0.03	0.13	0.16	0.00	0.00	0.02

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	92.49	32.60	53.85	178.94	0.00	0.00	26.83
Domestic Supply	0.00	13.85	7.77	21.62	0.00	0.00	3.25
Irrigation	0.00	4.07	14.61	18.68	0.00	0.00	16.82
Livestock	0.00	1.36	1.35	2.71	0.00	0.00	2.17
Industrial	1728.94	9.76	12.98	1751.68	0.00	0.00	105.10
Fossil Fuel Power	766.10	0.00	0.27	766.37	0.00	0.00	15.33
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	2082.75	0.00	2082.75	0.00	0.00	0.00
Other	0.00	0.03	0.06	0.09	0.00	0.00	0.01

Michigan

Data Sources: The Michigan Department of Environmental Quality submitted water use data for 2004. All data are directly reported to the Michigan DEQ by the facilities within each category except irrigation, which is estimated and divided into agricultural and nonagricultural (golf course, park, etc.) irrigation. Agricultural irrigation is estimated using federal Agricultural Census data and a water use estimation model developed for Michigan. Nonagricultural irrigation facilities report directly to the DEQ. Please contact Andrew LeBaron at 517/241-1435 or lebarona@michigan.gov with questions regarding Michigan's data.

Because of the large number of facilities and limited staff resources, Michigan water usage cannot be separated by facility type. Michigan data are available at the state database at www.michigan.gov/deq. Click on **Water, Great Lakes, Water Use, Levels & Diversion** and go to the **Michigan Water Use Reporting Program**.

Withdrawals: Water withdrawals for the Lake Superior, Lake Michigan, Lake Huron, and Lake Erie basins of Michigan were approximately 10,948.24 mgd, a decrease of between 3% and 4% from 2003. Of the four basins, the state of Michigan withdraws the most--about 47%--from Lake Erie (5210.31 mgd) and the least--between 2% and 3%--from Lake Superior (295.98 mgd). Thermoelectric power-fossil fuel, at 60%, was the largest withdrawal category for the state of Michigan.

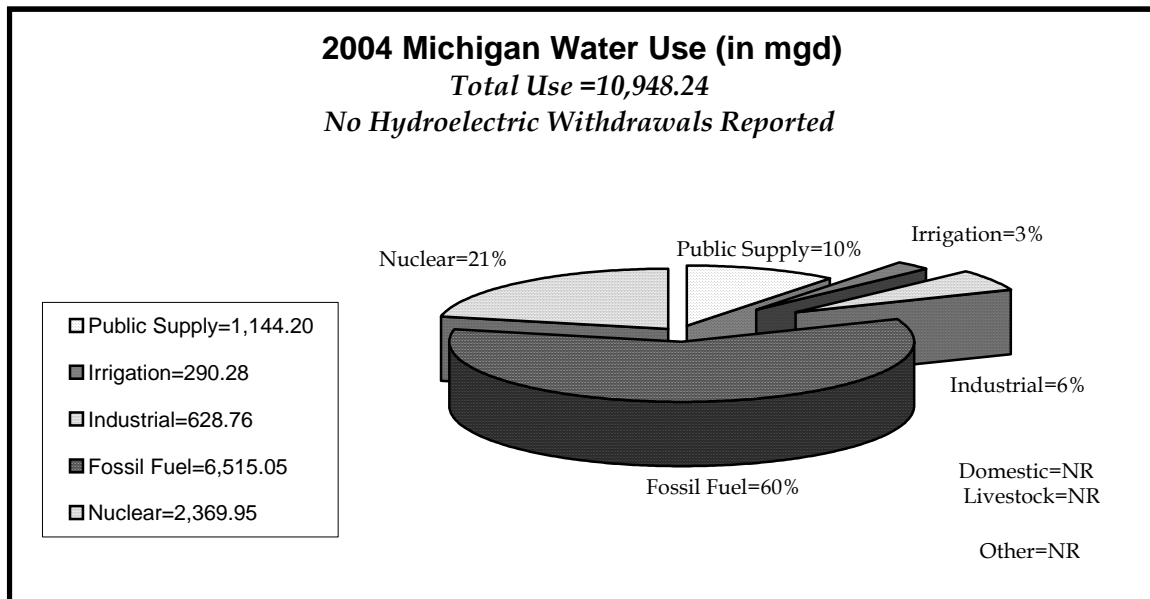


Figure 7

Consumptive Use: Consumptive uses in the Michigan portion of the Great Lakes basin were calculated to be approximately 590.41 mgd; irrigation was the largest single consumptive use (because the coefficient for irrigation is 90%) at 261.27 mgd, or about 44% of the total consumptive use.

Interbasin Diversions: None reported.

Data Quality: Michigan's withdrawal data for this report were 91% measured, 6% partially measured, and 3% calculated or estimated; the level of aggregation was 100% site-specific.

JURISDICTION REPORT- Michigan

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d
Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Superior							
	Public Supply	11.90	0.00	1.49		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	0.52	0.00	0.47		0.00	
	Livestock		0.00			0.00	
	Industrial	13.20	0.00	1.32		0.00	
	Fossil Fuel Power	270.36	0.00	3.24		0.00	
	Nuclear Power	0.00	0.00	0.00		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		0.00			0.00	
	Total:	295.98	0.00	6.52		0.00	
Lake Michigan							
	Public Supply	308.59	0.00	38.58		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	241.43	0.00	217.29		0.00	
	Livestock		0.00			0.00	
	Industrial	268.58	0.00	26.87		0.00	
	Fossil Fuel Power	1214.95	0.00	14.57		0.00	
	Nuclear Power	2317.20	0.00	44.03		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		0.00			0.00	
	Total:	4350.75	0.00	341.34		0.00	
Lake Huron							
	Public Supply	301.72	0.00	37.72		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	25.86	0.00	23.28		0.00	
	Livestock		0.00			0.00	
	Industrial	34.71	0.00	3.48		0.00	
	Fossil Fuel Power	728.91	0.00	8.74		0.00	
	Nuclear Power	0.00	0.00	0.00		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		0.00			0.00	
	Total:	1091.20	0.00	73.22		0.00	

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Erie							
	Public Supply	521.99	0.00	65.26		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	22.47	0.00	20.23		0.00	
	Livestock		0.00			0.00	
	Industrial	312.27	0.00	31.23		0.00	
	Fossil Fuel Power	4300.83	0.00	51.61		0.00	
	Nuclear Power	52.75	0.00	1.00		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		0.00			0.00	
	Total:	5210.31	0.00	169.33		0.00	
Grand Total:		10948.24	0.00	590.41		0.00	

JURISDICTION REPORT - Michigan

Withdrawals by Source

Units: Mgal(US)/d

Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Superior							
	Public Supply	3.77	0.00	8.13			
	Domestic Supply						
	Irrigation	0.01	0.27	0.24			
	Livestock						
	Industrial	12.73	0.00	0.47			
	Fossil Fuel Power	270.36	0.00	0.00			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	Total:	286.87	0.27	8.84			
Lake Michigan							
	Public Supply	137.40	0.51	170.68			
	Domestic Supply						
	Irrigation	1.79	75.85	163.79			
	Livestock						
	Industrial	107.26	88.25	73.07			
	Fossil Fuel Power	896.01	316.13	2.81			
	Nuclear Power	2317.20	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	Total:	3459.66	480.74	410.35			
Lake Huron							
	Public Supply	272.53	0.66	28.53			
	Domestic Supply						
	Irrigation	2.73	9.68	13.45			
	Livestock						
	Industrial	19.55	13.18	1.98			
	Fossil Fuel Power	722.43	5.26	1.22			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	Total:	1017.24	28.78	45.18			

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Erie							
	Public Supply	465.48	16.60	39.91			
	Domestic Supply						
	Irrigation	0.43	12.54	9.50			
	Livestock						
	Industrial	287.06	11.63	13.58			
	Fossil Fuel Power	4145.47	155.28	0.08			
	Nuclear Power	52.75	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	Total:	4951.19	196.05	63.07			
Grand Total:		9714.96	705.84	527.44			

JURISDICTION REPORT - Michigan

Jurisdiction Totals

Units: Mgal(US)/d
Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	879.18	17.77	247.25	1144.20	0.00	0.00	143.05
Domestic Supply					0.00	0.00	
Irrigation	4.96	98.34	186.98	290.28	0.00	0.00	261.27
Livestock					0.00	0.00	
Industrial	426.60	113.06	89.10	628.76	0.00	0.00	62.90
Fossil Fuel Power	6034.27	476.67	4.11	6515.05	0.00	0.00	78.16
Nuclear Power	2369.95	0.00	0.00	2369.95	0.00	0.00	45.03
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other					0.00	0.00	

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply					0.00	0.00	
Domestic Supply					0.00	0.00	
Irrigation					0.00	0.00	
Livestock					0.00	0.00	
Industrial					0.00	0.00	
Fossil Fuel Power					0.00	0.00	
Nuclear Power					0.00	0.00	
Hydroelectric Power					0.00	0.00	
Other					0.00	0.00	

Minnesota

Data Sources: Water use data for Minnesota were provided by the Minnesota Department of Natural Resources, Division of Waters. Please contact Sean Hunt at 651/259-5679 or sean.hunt@dnr.state.mn.us with questions regarding Minnesota's data.

Withdrawals: Withdrawals from the Minnesota portion of the Lake Superior basin were 4,181.39 mgd, showing a decrease of 1% from 2003. Hydroelectric withdrawal which, at 3,609.20 mgd, accounted for over 86% of Minnesota's total water withdrawals in 2004, also showed an increase of just over 1% from 2003. Of the remainder (572.19 mgd), industrial use accounted for over half.

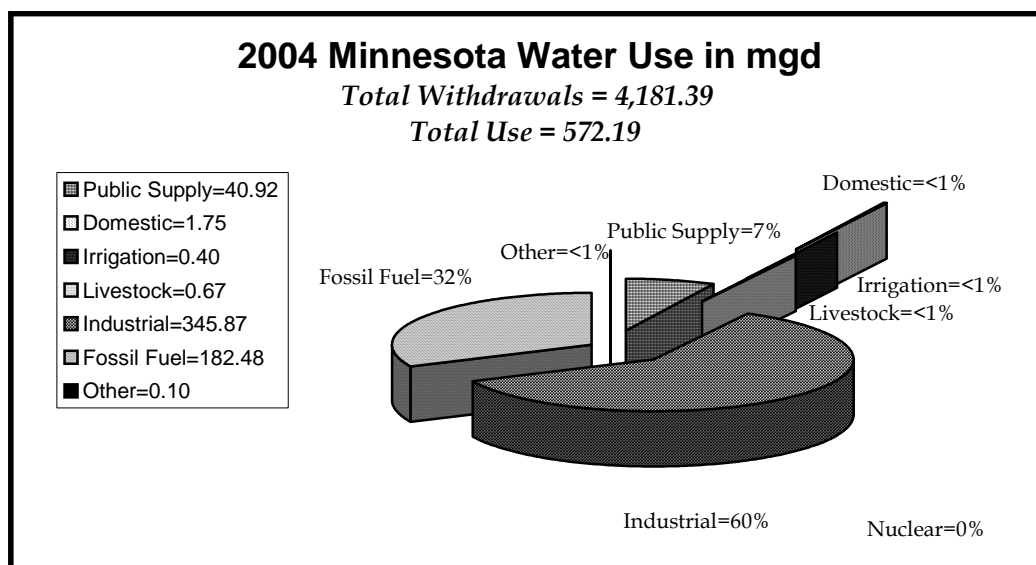


Figure 8

Consumptive Use: The largest consumptive use was calculated to be industrial, at 34.59 mgd, or 79% of total consumption. Public supply was the second largest consumptive use at 4.09 mgd, or 4% of Minnesota's total consumptive use.

Interbasin Diversions: None reported.

Data Quality: Minnesota's withdrawal data for this report were 100% measured; the level of aggregation was 100% site-specific.

JURISDICTION REPORT - Minnesota

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d
Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Superior							
	Public Supply	40.92	0.00	4.09	40.25	0.00	4.03
	Domestic Supply	1.75	0.00	0.18	1.55	0.00	0.16
	Irrigation	0.40	0.00	0.36	0.13	0.00	0.12
	Livestock	0.67	0.00	0.60	0.62	0.00	0.55
	Industrial	345.87	0.00	34.59	345.51	0.00	34.56
	Fossil Fuel Power	182.48	0.00	3.65	182.37	0.00	3.65
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	3609.20	0.00	0.00	3609.20	0.00	0.00
	Other	0.10	0.00	0.00	0.00	0.00	0.00
	Total:	4181.39	0.00	43.47	4179.63	0.00	43.06
Grand Total:		4181.39	0.00	43.47	4179.63	0.00	43.06

JURISDICTION REPORT - Minnesota

Withdrawals by Source

Units: Mgal(US)/d
Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Superior							
	Public Supply	33.02	2.92	4.98	32.97	2.89	4.40
	Domestic Supply	0.96	0.77	0.02	0.92	0.63	0.00
	Irrigation	0.03	0.36	0.01	0.00	0.13	0.00
	Livestock	0.67	0.00	0.00	0.62	0.00	0.00
	Industrial	286.26	59.59	0.02	286.25	59.26	0.00
	Fossil Fuel Power	0.00	182.36	0.12	0.00	182.27	0.10
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	3609.20	0.00	0.00	3609.20	0.00
	Other	0.00	0.00	0.10	0.00	0.00	0.00
	Total:	320.94	3855.20	5.25	320.75	3854.38	4.50
Grand Total:		320.94	3855.20	5.25	320.75	3854.38	4.50

JURISDICTION REPORT - Minnesota

Jurisdiction Totals

Units: Mgal(US)/d
Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	33.02	2.92	4.98	40.92	0.00	0.00	4.09
Domestic Supply	0.96	0.77	0.02	1.75	0.00	0.00	0.18
Irrigation	0.03	0.36	0.01	0.40	0.00	0.00	0.36
Livestock	0.67	0.00	0.00	0.67	0.00	0.00	0.60
Industrial	286.26	59.59	0.02	345.87	0.00	0.00	34.59
Fossil Fuel Power	0.00	182.36	0.12	182.48	0.00	0.00	3.65
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	3609.20	0.00	3609.20	0.00	0.00	0.00
Other	0.00	0.00	0.10	0.10	0.00	0.00	0.00

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	32.97	2.89	4.40	40.25	0.00	0.00	4.03
Domestic Supply	0.92	0.63	0.00	1.55	0.00	0.00	0.16
Irrigation	0.00	0.13	0.00	0.13	0.00	0.00	0.12
Livestock	0.62	0.00	0.00	0.62	0.00	0.00	0.55
Industrial	286.25	59.26	0.00	345.51	0.00	0.00	34.56
Fossil Fuel Power	0.00	182.27	0.10	182.37	0.00	0.00	3.65
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	3609.20	0.00	3609.20	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00

New York

Data Sources: Water use data collection in New York is performed by the Department of Environmental Conservation—Bureau of Water Resource Management. Please contact Michael Holt at 518/402-8099 or mdholt@gw.dec.state.ny.us with questions regarding New York’s data.

Withdrawals: In 2004, New York withdrawals totaled 315,106.25 mgd. (Total use, not including hydroelectric power, was 5,119.25 in 2004 compared with 5,101.92 in 2003.) Hydroelectric power was by far the largest utilization of water in New York State at 309,987.00 mgd or 98% of total withdrawals; the St. Lawrence River accounted for 58% of hydroelectric withdrawals in New York. The next largest categories of use were fossil fuel and nuclear power.

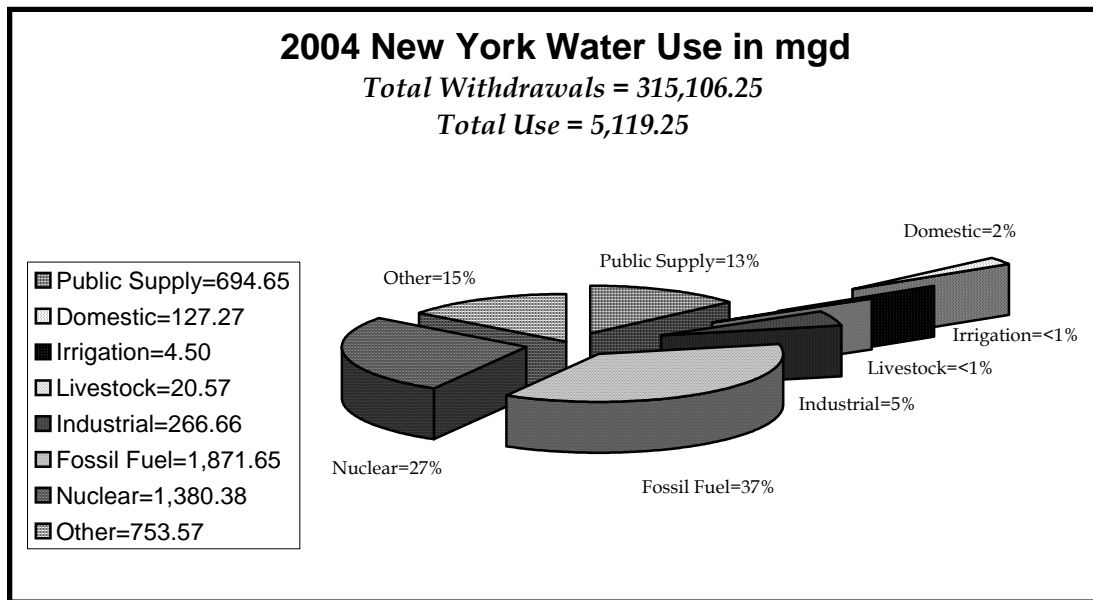


Figure 9

Consumptive Use: New York reported total consumptive uses of 319.60 mgd. Lake Ontario comprised 205.78 mgd or 65%; Lake Erie comprised 99.78 mgd or 31%; the St. Lawrence River comprised 14.04 mgd or 4%. The largest categories of consumptive use were public supply at 24% and nuclear power at 21%.

Interbasin Diversions: Two outgoing interbasin diversions occur between the Lake Ontario basin and the Mohawk River basin. A withdrawal of 9.59 mgd from the Tagasoke Reservoir on the East Branch of Fish Creek (Lake Ontario basin) is made by the city of Rome for public water supply and emptied into the Mohawk River basin. The Forestport/Black River Canal (Lake Ontario basin) was decommissioned in the 1980s but still allows for residual flow of up to 32 mgd into the Mohawk River basin.

Intrabasin Diversions: The western section of the Erie Canal withdraws up to 711 mgd from the Niagara River during the navigation season (May through November) and returns it through tributaries of Lake Ontario, resulting in no net loss or gain to the basin.

Data Quality: New York’s withdrawal data for this report were 100% partially measured; the level of aggregation was 100% aggregated.

JURISDICTION REPORT- New York

Withdrawals, Diversions Units: Mgal(US)/d
and Consumptive Uses Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Erie							
	Public Supply	264.02	0.00	26.40		0.00	
	Domestic Supply	22.94	0.00	2.29	0.00	0.00	0.00
	Irrigation	0.86	0.00	0.78	0.86	0.00	0.78
	Livestock	4.30	0.00	3.87		0.00	
	Industrial	179.96	0.00	45.00	179.96	0.00	45.00
	Fossil Fuel Power	1072.17	0.00	21.44	1072.17	0.00	20.47
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	47372.00	0.00	0.00	47372.00	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	Total:	48916.25	0.00	99.78	48624.99	0.00	66.25
Lake Ontario							
	Public Supply	390.71	9.59	47.70		9.59	0.00
	Domestic Supply	89.08	0.00	8.91	27.19	0.00	2.72
	Irrigation	3.59	0.00	3.24	3.59	0.00	3.24
	Livestock	11.19	0.00	10.07		0.00	6.53
	Industrial	72.71	0.00	18.18	72.71	0.00	18.18
	Fossil Fuel Power	799.37	0.00	15.99	799.37	0.00	15.99
	Nuclear Power	1380.38	0.00	69.02	1380.38	0.00	69.02
	Hydroelectric Power	80908.00	0.00	0.00	0.00	0.00	0.00
	Other	38.69	32.00	32.67	38.69	32.00	32.67
	Total:	83693.72	41.59	205.78	2321.93	41.59	148.35
St. Lawrence River							
	Public Supply	39.92	0.00	4.00		0.00	
	Domestic Supply	15.25	0.00	1.53	0.58	0.00	0.06
	Irrigation	0.05	0.00	0.04	0.05	0.00	0.04
	Livestock	5.08	0.00	4.57		0.00	
	Industrial	13.99	0.00	3.51	13.99	0.00	3.51
	Fossil Fuel Power	0.11	0.00	0.00	0.11	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	181707.00	0.00	0.00	83015.00	0.00	0.00
	Other	3.88	0.00	0.39	3.88	0.00	0.39
	Total:	181785.28	0.00	14.04	83033.61	0.00	4.00
Grand Total:		314395.25	41.59	319.60	133980.53	41.59	218.60

JURISDICTION REPORT- New York

Withdrawals by Source

Units: Mgal(US)/d

Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Erie							
	Public Supply	184.58	72.12	7.32			
	Domestic Supply	12.33	0.00	10.61	0.00	0.00	0.00
	Irrigation	0.14	0.72	0.00	0.14	0.72	0.00
	Livestock	1.54	0.00	2.76			
	Industrial	178.83	1.10	0.03	178.83	1.10	0.03
	Fossil Fuel Power	1072.17	0.00	0.00	1072.17	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	47372.00	0.00	0.00	47372.00	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	Total:	48821.59	73.94	20.72	48623.14	1.82	0.03
Lake Ontario							
	Public Supply	187.28	170.51	32.92			
	Domestic Supply	21.10	27.19	40.79	0.00	27.19	0.00
	Irrigation	0.00	3.44	0.15	0.00	3.44	0.15
	Livestock	3.93	0.00	7.26			
	Industrial	26.16	36.78	9.77	26.16	36.78	9.77
	Fossil Fuel Power	439.99	359.38	0.00	439.99	359.38	0.00
	Nuclear Power	1380.38	0.00	0.00	1380.38	0.00	0.00
	Hydroelectric Power	0.00	80908.00	0.00	0.00	0.00	0.00
	Other	0.00	38.43	0.26	0.00	38.43	0.26
	Total:	2058.84	81543.73	91.15	1846.53	465.22	10.18
St. Lawrence River							
	Public Supply	2.80	32.47	4.65			
	Domestic Supply	2.55	0.58	12.12	0.00	0.58	0.00
	Irrigation	0.00	0.05	0.00	0.00	0.05	0.00
	Livestock	1.77	0.00	3.31			
	Industrial	5.26	6.54	2.19	5.26	6.54	2.19
	Fossil Fuel Power	0.11	0.00	0.00	0.11	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	83015.00	98692.00	0.00	83015.00	0.00	0.00
	Other	0.00	3.88	0.00	0.00	3.88	0.00
	Total:	83027.49	98735.52	22.27	83020.37	11.05	2.19
Grand Total:		133907.92	180353.19	134.14	133490.04	478.09	12.40

JURISDICTION REPORT- New York

Jurisdiction Totals

Units: Mgal(US)/d
Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	374.66	275.10	44.89	694.65	0.00	9.59	78.10
Domestic Supply	35.98	27.77	63.52	127.27	0.00	0.00	12.73
Irrigation	0.14	4.21	0.15	4.50	0.00	0.00	4.06
Livestock	7.24	0.00	13.33	20.57	0.00	0.00	18.51
Industrial	210.25	44.42	11.99	266.66	0.00	0.00	66.69
Fossil Fuel Power	1512.27	359.38	0.00	1871.65	0.00	0.00	37.43
Nuclear Power	1380.38	0.00	0.00	1380.38	0.00	0.00	69.02
Hydroelectric Power	130387.00	179600.00	0.00	309987.00	0.00	0.00	0.00
Other	0.00	42.31	0.26	42.57	0.00	32.00	33.06

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply					0.00	9.59	0.00
Domestic Supply	0.00	27.77	0.00	27.77	0.00	0.00	2.78
Irrigation	0.14	4.21	0.15	4.50	0.00	0.00	4.06
Livestock					0.00	0.00	6.53
Industrial	210.25	44.42	11.99	266.66	0.00	0.00	66.69
Fossil Fuel Power	1512.27	359.38	0.00	1871.65	0.00	0.00	36.46
Nuclear Power	1380.38	0.00	0.00	1380.38	0.00	0.00	69.02
Hydroelectric Power	130387.00	0.00	0.00	130387.00	0.00	0.00	0.00
Other	0.00	42.31	0.26	42.57	0.00	32.00	33.06

Ohio

Data Sources: Water use data for Ohio are collected by the Ohio Department of Natural Resources-Division of Water, the Ohio Environmental Protection Agency, and the U.S. Geological Survey. Please contact Lenn Black at leonard.black@dnr.state.oh.us or 614/265-6758 with questions regarding Ohio's data.

Withdrawals: Total withdrawals from the Ohio Lake Erie basin for 2004 were 3,145.17 mgd—down slightly from the 2003 figure of 3,207.32 mgd. As in 2003, thermoelectric-fossil fuel was by far the largest use of water at 2,143.40 mgd (68%); public supply was the second largest withdrawal at 565.02 mgd (18%).

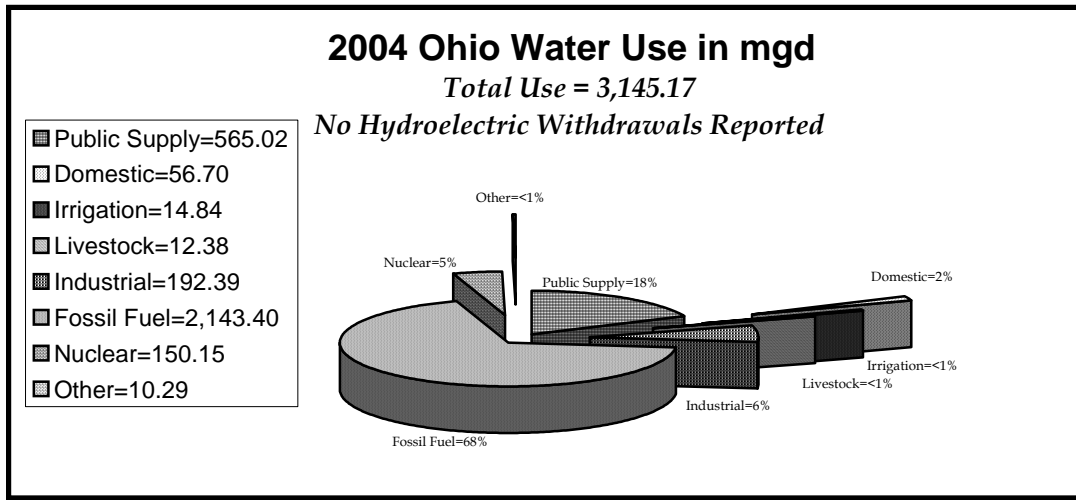


Figure 10

Consumptive Use: Total consumptive uses were calculated to be 172.22 mgd. Public supply represents the largest consumptive use sector at 84.76 mgd and accounts for 49% of the total. The next three largest consumptive uses were thermoelectric-fossil fuel at 21.43 mgd, industrial facilities at 19.24 mgd and irrigation at 15.02 mgd.

Interbasin Diversions: Two Lake Erie basin public water systems provided drinking water to service areas outside the basin without return, resulting in total outgoing diversions of 0.32 mgd. Outflows from an Ohio & Erie Canal feeder lake resulted in a diversion into the Lake Erie basin of 10.10 mgd.

Data Quality: Ohio's withdrawal data for this report were 2% calculated or estimated, and 98% partially measured; the level of aggregation was 2% aggregated and 98% site-specific.

JURISDICTION REPORT- Ohio

Withdrawals, Diversions Units: Mgal(US)/d
and Consumptive Uses Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Erie							
	Public Supply	565.02	0.32	84.76	558.60	0.32	83.79
	Domestic Supply	56.70	0.00	8.51	0.00	0.00	0.00
	Irrigation	14.84	0.00	13.36	9.74	0.00	8.78
	Livestock	12.38	0.00	9.90	0.60	0.00	0.48
	Industrial	192.39	0.00	19.24	191.45	0.00	19.15
	Fossil Fuel Power	2143.40	0.00	21.43	2143.34	0.00	21.43
	Nuclear Power	150.15	0.00	15.02	150.15	0.00	15.02
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	10.29	-10.10	0.00	10.00	-10.10	0.00
	Total:	3145.17	-9.78	172.22	3063.88	-9.78	148.65
Grand Total:		3145.17	-9.78	172.22	3063.88	-9.78	148.65

JURISDICTION REPORT- Ohio

Withdrawals by Source

Units: Mgal(US)/d
Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Erie							
	Public Supply	416.98	109.92	38.12	416.85	109.54	32.21
	Domestic Supply	0.00	0.00	56.70	0.00	0.00	0.00
	Irrigation	0.24	11.71	2.89	0.13	8.40	1.21
	Livestock	0.00	1.98	10.40	0.00	0.22	0.38
	Industrial	53.59	103.26	35.54	53.59	102.91	34.95
	Fossil Fuel Power	1467.14	676.21	0.05	1467.13	676.21	0.00
	Nuclear Power	150.15	0.00	0.00	150.15	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.68	9.11	0.50	0.64	9.00	0.36
	Total:	2088.78	912.19	144.20	2088.49	906.28	69.11
Grand Total:		2088.78	912.19	144.20	2088.49	906.28	69.11

JURISDICTION REPORT - Ohio

Jurisdiction Totals Units: Mgal(US)/d
Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	416.98	109.92	38.12	565.02	0.00	0.32	84.76
Domestic Supply	0.00	0.00	56.70	56.70	0.00	0.00	8.51
Irrigation	0.24	11.71	2.89	14.84	0.00	0.00	13.36
Livestock	0.00	1.98	10.40	12.38	0.00	0.00	9.90
Industrial	53.59	103.26	35.54	192.39	0.00	0.00	19.24
Fossil Fuel Power	1467.14	676.21	0.05	2143.40	0.00	0.00	21.43
Nuclear Power	150.15	0.00	0.00	150.15	0.00	0.00	15.02
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.68	9.11	0.50	10.29	0.00	-10.10	0.00

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	416.85	109.54	32.21	558.60	0.00	0.32	83.79
Domestic Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Irrigation	0.13	8.40	1.21	9.74	0.00	0.00	8.78
Livestock	0.00	0.22	0.38	0.60	0.00	0.00	0.48
Industrial	53.59	102.91	34.95	191.45	0.00	0.00	19.15
Fossil Fuel Power	1467.13	676.21	0.00	2143.34	0.00	0.00	21.43
Nuclear Power	150.15	0.00	0.00	150.15	0.00	0.00	15.02
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.64	9.00	0.36	10.00	0.00	-10.10	0.00

Ontario

Data Sources: Water use data reporting for Ontario was coordinated by the Ontario Ministry of Natural Resources, Science and Information Branch. Calendar year 2000 data are used for this report because: 1) Ontario presently has no staff person available to work on this project and, 2) water use figures for 2003 are not believed to be greatly different than those for 2000. Please contact James Britton at 705/755-1870 or james.britton@mnr.gov.on.ca with questions regarding Ontario’s data.

Data for the public supply sector were obtained from the Ministry of the Environment Interim Inspection System Reports. Domestic use figures were estimated with the use of Environment Canada’s municipal water use database and Statistics Canada Population Census data. *Agricultural Water Use 1996* and *Agricultural Water Use 2001* were the sources for irrigation and livestock data. As no viable source of current data is available for industrial water use, the reported industrial data are from 1996. Data for the power sector categories were obtained through contact with individual operators and generation companies. Data for the “other” category were taken from the National Canal Survey.

Although this water withdrawal report accounts for the majority of water use within Ontario, data for a limited number of water users is not available, therefore this database does not represent all water use in the province.

Withdrawals: Total 2000 Great Lakes water uses for Ontario were approximately 769,343.12 mld, or 203,238.94 mgd. However, hydroelectric withdrawals represented more than 93% of the total, leaving total use at 51,849.17 mld (13,697.10 mgd). Thermolectric—nuclear plant uses (not including hydropower) were the largest at 74% (38,328.77 mld, or 10,125.39 mgd).

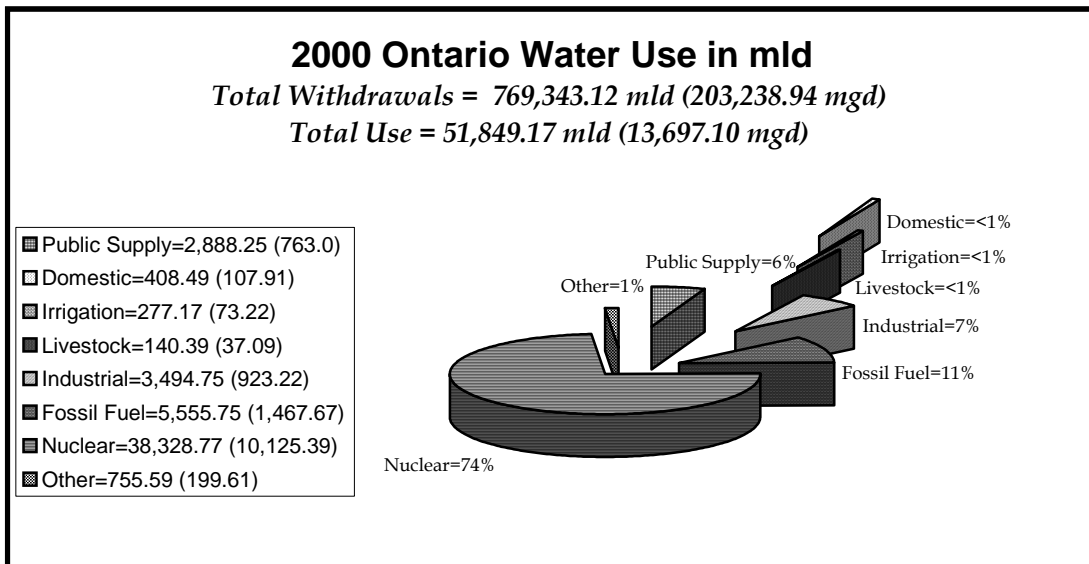


Figure 11

Consumptive Use: Total consumptive uses were calculated to be 1,059.62 mld (279.92 mgd). Public supply represents the largest consumptive use sector at 433.24 mld (114.45 mgd) and accounts for 41% of the total. The next two largest consumptive uses were nuclear power and industrial use, at 344.96 mld (91.13 mgd) and 220.15 mld (58.16 mgd) respectively.

Interbasin Diversions: Ontario reported incoming interbasin diversions into the Lake Superior basin from the James Bay basin for hydroelectric purposes (the Ogoki and Long Lac projects) amounting to 15,170.99 mld (4,004.75 mgd).

Intrabasin Diversions: Intrabasin diversions occurred between lakes Huron, Erie and Ontario.

Data Quality: Ontario's withdrawal data for this report were 20% measured, 79% partially measured, and 1% calculated or estimated; the level of aggregation was 99% site-specific and less than 1% aggregated.

JURISDICTION REPORT- Ontario

Withdrawals, Diversions Units: Mgal(US)/d
and Consumptive Uses Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Superior							
	Public Supply	45.77	0.00	6.87	45.58	0.00	6.84
	Domestic Supply	1.75	0.00	0.26	0.00	0.00	0.00
	Irrigation	0.37	0.00			0.00	
	Livestock	0.14	0.00			0.00	
	Industrial	162.12	0.00	10.21	0.00	0.00	0.00
	Fossil Fuel Power	295.52	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	38156.31	-4007.75	0.00	0.00	0.00	0.00
	Other		0.00			0.00	
	Total:	38661.99	-4007.75	17.34	45.58	0.00	6.84
Lake Huron							
	Public Supply	84.37	0.00	12.65	81.66	0.00	12.25
	Domestic Supply	10.61	0.00	1.59	0.00	0.00	0.00
	Irrigation	20.91	0.00			0.00	
	Livestock	12.41	0.00			0.00	
	Industrial	190.19	0.00	11.98	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	4697.20	0.00	42.28	0.00	0.00	0.00
	Hydroelectric Power	33608.07	0.00	0.00	0.00	0.00	0.00
	Other	47.97	0.00	0.00	47.97	0.00	0.00
	Total:	38671.73	0.00	68.50	129.63	0.00	12.25
Lake Erie							
	Public Supply	93.89	0.00	14.08	92.84	0.00	13.92
	Domestic Supply	19.94	0.00	2.99	0.00	0.00	0.00
	Irrigation	31.85	0.00			0.00	
	Livestock	13.22	0.00			0.00	
	Industrial	180.45	0.00	11.37	0.00	0.00	0.00
	Fossil Fuel Power	463.20	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other		0.00			0.00	
	Total:	802.56	0.00	28.44	92.84	0.00	13.92

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Ontario							
	Public Supply	465.93	0.00	69.89	464.62	0.00	69.69
	Domestic Supply	64.17	0.00	9.63	0.00	0.00	0.00
	Irrigation	17.73	0.00			0.00	
	Livestock	5.40	0.00			0.00	
	Industrial	229.64	0.00	14.47	0.00	0.00	0.00
	Fossil Fuel Power	708.95	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	5428.19	0.00	48.85	0.00	0.00	0.00
	Hydroelectric Power	41542.31	0.00	0.00	0.00	0.00	0.00
	Other	132.35	0.00	0.00	132.35	0.00	0.00
	Total:	48594.67	0.00	142.84	596.97	0.00	69.69
St. Lawrence River							
	Public Supply	73.03	0.00	10.96	72.08	0.00	10.82
	Domestic Supply	11.45	0.00	1.72	0.00	0.00	0.00
	Irrigation	2.35	0.00			0.00	
	Livestock	5.91	0.00			0.00	
	Industrial	160.81	0.00	10.13	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	76235.15	0.00	0.00	0.00	0.00	0.00
	Other	19.28	0.00	0.00	19.28	0.00	0.00
	Total:	76507.99	0.00	22.80	91.37	0.00	10.82
Grand Total:		203238.94	-4007.75	279.92	956.38	0.00	113.52

JURISDICTION REPORT- Ontario

Withdrawals by Source

Units: Mgal(US)/d
Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Superior							
	Public Supply	30.10	13.03	2.65	30.07	12.96	2.55
	Domestic Supply	0.00	0.00	1.75	0.00	0.00	0.00
	Irrigation	0.02	0.31	0.05			
	Livestock	0.00	0.14	0.00			
	Industrial	162.12	0.00	0.00	0.00	0.00	0.00
	Fossil Fuel Power	295.52	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	38156.31	0.00	0.00	0.00	0.00
	Other						
	Total:	487.76	38169.79	4.44	30.07	12.96	2.55
Lake Huron							
	Public Supply	42.66	23.57	18.14	42.02	23.23	16.40
	Domestic Supply	0.00	0.00	10.61	0.00	0.00	0.00
	Irrigation	0.15	15.41	5.35			
	Livestock	2.93	3.07	6.41			
	Industrial	187.41	0.00	2.78	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	4697.20	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	20000.41	13607.66	0.00	0.00	0.00	0.00
	Other	0.00	47.97	0.00	0.00	47.97	0.00
	Total:	24930.76	13697.68	43.29	42.02	71.20	16.40
Lake Erie							
	Public Supply	8.97	29.26	55.66	8.97	29.23	54.64
	Domestic Supply	0.00	0.00	19.94	0.00	0.00	0.00
	Irrigation	0.59	12.11	19.15			
	Livestock	0.02	0.89	12.31			
	Industrial	173.24	0.00	7.21	0.00	0.00	0.00
	Fossil Fuel Power	463.20	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other						
	Total:	646.02	42.26	114.27	8.97	29.23	54.64

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Ontario							
	Public Supply	401.52	52.86	11.56	401.47	52.68	10.47
	Domestic Supply	0.00	0.00	64.17	0.00	0.00	0.00
	Irrigation	1.08	9.53	7.12			
	Livestock	0.00	0.94	4.46			
	Industrial	218.17	0.00	11.46	0.00	0.00	0.00
	Fossil Fuel Power	708.95	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	5428.19	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	33861.04	7681.26	0.00	0.00	0.00	0.00
	Other	0.00	132.35	0.00	0.00	132.35	0.00
	Total:	40618.96	7876.94	98.77	401.47	185.03	10.47
St. Lawrence River							
	Public Supply	10.64	58.84	3.56	10.64	58.52	2.93
	Domestic Supply	0.00	0.00	11.45	0.00	0.00	0.00
	Irrigation	0.01	2.04	0.30			
	Livestock	0.00	3.63	2.28			
	Industrial	159.76	0.00	1.05	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	76149.02	86.13	0.00	0.00	0.00	0.00
	Other	0.00	19.28	0.00	0.00	19.28	0.00
	Total:	76319.43	169.91	18.65	10.64	77.80	2.93
Grand Total:		143002.93	59956.58	279.43	493.17	376.22	87.00

JURISDICTION REPORT - Ontario

Jurisdiction Totals Units: Mgal(US)/d
Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	493.88	177.55	91.57	763.00	0.00	0.00	114.45
Domestic Supply	0.00	0.00	107.91	107.91	0.00	0.00	16.19
Irrigation	1.86	39.39	31.97	73.22	0.00	0.00	
Livestock	2.95	8.67	25.47	37.09	0.00	0.00	
Industrial	900.71	0.00	22.51	923.22	0.00	0.00	58.16
Fossil Fuel Power	1467.67	0.00	0.00	1467.67	0.00	0.00	0.00
Nuclear Power	10125.39	0.00	0.00	10125.39	0.00	0.00	91.13
Hydroelectric Power	130010.47	59531.37	0.00	189541.84	0.00	-4007.75	0.00
Other	0.00	199.61	0.00	199.61	61.97	0.00	0.00

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	493.17	176.61	87.00	756.78	0.00	0.00	113.52
Domestic Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Irrigation					0.00	0.00	
Livestock					0.00	0.00	
Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	199.61	0.00	199.61	61.97	0.00	0.00

Pennsylvania

Data Sources: The Department of Environmental Protection – Bureau of Watershed Management submitted water use data for the Lake Erie and Lake Ontario basins of Pennsylvania. Please contact David Jostenski at 717/772-5659 or djostenski@state.pa.us with questions regarding Pennsylvania’s data.

Withdrawals: Total withdrawals from Lake Erie and Lake Ontario were 49.56 mgd, with no hydroelectric withdrawals reported. Public supply at 34.16 mgd or 69%, and industrial at 7.84 mgd or 16%, constituted the primary uses of water. Nearly 100% of withdrawals were from the Lake Erie basin (49.33 mgd of 49.56 mgd).

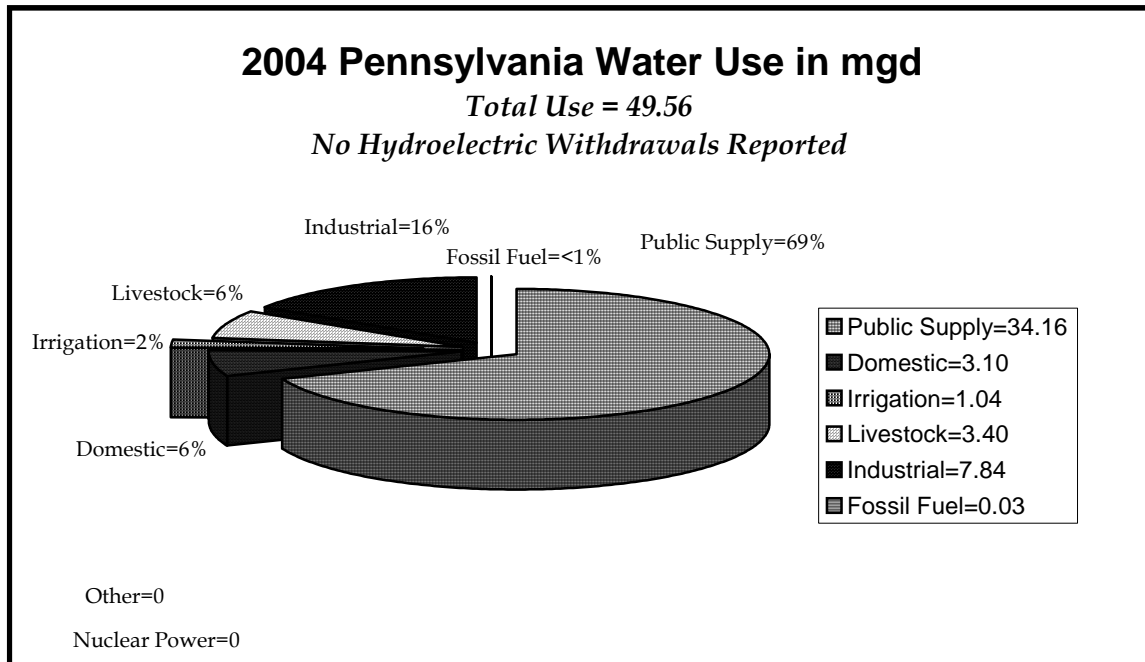


Figure 12

Consumptive Use: Consumptive use totaled 7.39 mgd, down from the 2003 figure of 7.61 mgd. Lake Erie constituted almost 100% of the consumptive use reported.

Interbasin Diversions: There was an import of 1.73 mgd of water from the Allegheny River basin to the Lake Erie basin for public water supply purposes.

Data Quality: Pennsylvania’s withdrawal data for this report were 31% calculated or estimated, 9% partially measured, and 60% measured; the level of aggregation was 6% aggregated and 94% site-specific.

JURISDICTION REPORT - Pennsylvania

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d
Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Erie							
	Public Supply	34.10	-1.73	3.41	32.72	-1.73	3.27
	Domestic Supply	2.93	0.00	0.29		0.00	
	Irrigation	1.04	0.00	0.94	0.89	0.00	0.80
	Livestock	3.40	0.00	2.72	3.30	0.00	2.64
	Industrial	7.84	0.00		5.59	0.00	0.11
	Fossil Fuel Power	0.03	0.00	0.00		0.00	
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other		0.00			0.00	
	Total:	49.33	-1.73	7.36	42.50	-1.73	6.83
Lake Ontario							
	Public Supply	0.06	0.00	0.01		0.00	
	Domestic Supply	0.17	0.00	0.02	0.00	0.00	0.00
	Irrigation		0.00			0.00	
	Livestock		0.00			0.00	
	Industrial		0.00			0.00	
	Fossil Fuel Power		0.00			0.00	
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other		0.00			0.00	
	Total:	0.23	0.00	0.02	0.00	0.00	0.00
Grand Total:		49.56	-1.73	7.39	42.50	-1.73	6.83

JURISDICTION REPORT - Pennsylvania

Withdrawals by Source

Units: Mgal(US)/d

Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Erie							
	Public Supply	29.82	2.49	1.79	29.82	2.31	0.59
	Domestic Supply	0.00	0.00	2.93			
	Irrigation	0.02	1.02	0.01	0.00	0.89	0.00
	Livestock	0.00	2.20	1.20	0.00	2.10	1.20
	Industrial	5.59	2.20	0.04	5.59	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.03			
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other						
	Total:	35.42	7.91	6.00	35.41	5.31	1.79
Lake Ontario							
	Public Supply	0.00	0.00	0.06			
	Domestic Supply	0.00	0.00	0.17	0.00	0.00	0.00
	Irrigation						
	Livestock						
	Industrial						
	Fossil Fuel Power						
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other						
	Total:	0.00	0.00	0.23	0.00	0.00	0.00
Grand Total:		35.42	7.91	6.23	35.41	5.31	1.79

JURISDICTION REPORT - Pennsylvania

Jurisdiction Totals

Units: Mgal(US)/d
Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	29.82	2.49	1.85	34.16	0.00	-1.73	3.42
Domestic Supply	0.00	0.00	3.10	3.10	0.00	0.00	0.31
Irrigation	0.02	1.02	0.01	1.04	0.00	0.00	0.94
Livestock	0.00	2.20	1.20	3.40	0.00	0.00	2.72
Industrial	5.59	2.20	0.04	7.84	0.00	0.00	
Fossil Fuel Power	0.00	0.00	0.03	0.03	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other					0.00	0.00	

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	29.82	2.31	0.59	32.72	0.00	-1.73	3.27
Domestic Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Irrigation	0.00	0.89	0.00	0.89	0.00	0.00	0.80
Livestock	0.00	2.10	1.20	3.30	0.00	0.00	2.64
Industrial	5.59	0.00	0.00	5.59	0.00	0.00	0.11
Fossil Fuel Power					0.00	0.00	
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other					0.00	0.00	

Québec

Data Source: Water use data was collected by the Ministère de l'Environnement—Centre d'expertise hydrique du Québec for this report. The centre collects water use data primarily to support hydrologic and hydraulic research, floodplain delineation and hydrometric network management. Data for 1993 are used for this report because 1) a better tool for assessment is not yet in place and, 2) water use figures for 2004 are not believed to be greatly different than those for 1993. Please contact Lucie Bouchard at 418/521-3885 or lucie.bouchard@mddep.gouv.qc.ca with questions regarding Québec's data. See the following page for an update on the status of water quantity management in Québec.

Withdrawals: Total withdrawals from Québec's St. Lawrence River basin were approximately 1,155 bld (305 bgd). Nearly 100% of these uses were for hydroelectric power purposes.

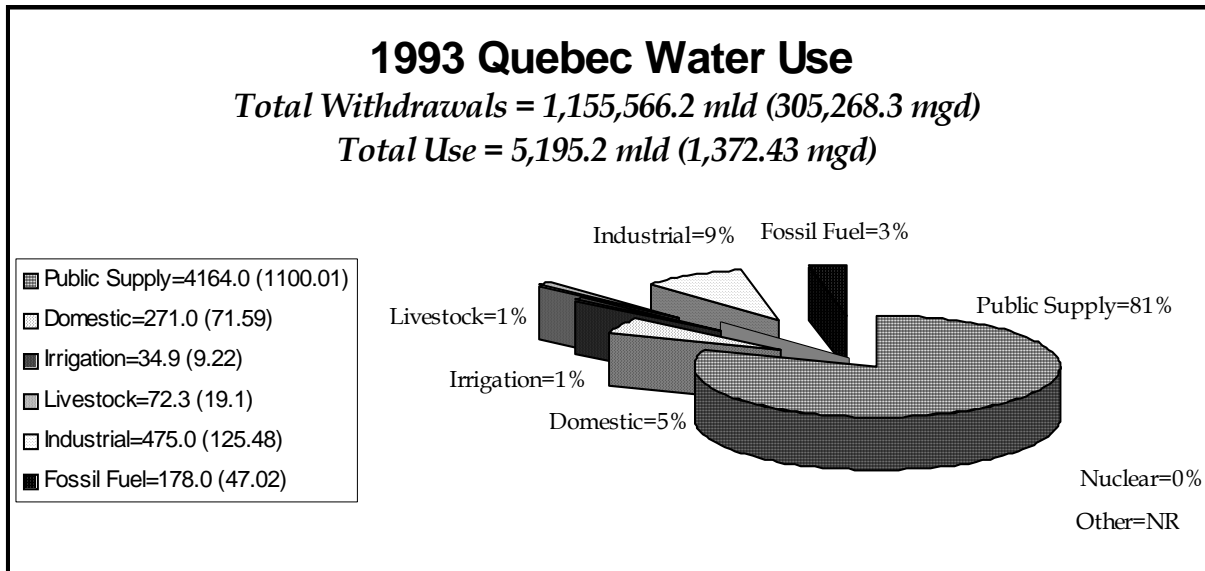


Figure 13

Consumptive Use: Total consumptive use was 597.5 mld (157.9 mgd). Public supply accounted for 416 mld (109.9 mgd), or nearly 70% of the total consumptive use.

Diversions: None reported.

Data Quality: Québec's withdrawal data for this report were 99% measured, less than 1% partially measured, and less than 1% calculated or estimated; the level of aggregation was 100% aggregated.

Historically, water withdrawals have not been a source of great conflict in Québec; however, recent incidents such as construction of a bottled water facility and water shortage brought on by severe drought, have brought the problem to the forefront. Since the adoption of a new water policy by Québec's National Assembly in 2002, existing regulations have been amended to improve water management. One of the guiding principles is that users must be accountable for the utilization and degradation of water by means of a user-pays and polluter-pays approach. A new regulation that should be adopted in 2007 will support the development of economic incentives such as a user fee for water. This new regulation will enable collection of water withdrawal data and allow Québec to meet the requirements of the Great Lakes-St. Lawrence River Basin Sustainable Water Resources Agreement.

Furthermore, the Water Resources Preservation Act of 1999 prohibits the transfer of water (both surface water and groundwater) out of Québec. Exception is made for the production of electric power; the marketing of water for human consumption if packaged in Québec in containers of 20 litres or less; the supply of potable water to establishments or dwellings situated in a bordering zone; the supply of vehicles (vessels, aircraft, etc.) with ballast or other requirements for operation of the vehicle, or to be used by the persons or animals being transported in the vehicle; or for emergency or humanitarian reasons on the ground.

(See <http://www.mddep.gouv.qc.ca/eau/politique/index-en.htm> for highlights and the complete text.)

JURISDICTION REPORT - Quebec

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d
Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
St. Lawrence River							
	Public Supply	1100.01	0.00	109.90	1096.05	0.00	109.63
	Domestic Supply	71.59	0.00	7.13	48.61	0.00	4.76
	Irrigation	9.22	0.00	8.30		0.00	
	Livestock	19.10	0.00	15.28		0.00	
	Industrial	125.48	0.00	12.55	124.95	0.00	12.50
	Fossil Fuel Power	47.02	0.00	4.70	47.02	0.00	4.70
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	303895.85	0.00	0.00	303895.85	0.00	0.00
	Other		0.00			0.00	
	Total:	305268.28	0.00	157.86	305212.48	0.00	131.58
Grand Total:		305268.28	0.00	157.86	305212.48	0.00	131.58

JURISDICTION REPORT - Quebec

Withdrawals by Source

Units: Mgal(US)/d
Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
St. Lawrence River							
	Public Supply	602.84	497.17	0.00	602.58	493.47	0.00
	Domestic Supply	0.00	0.00	71.59	0.00	0.00	48.61
	Irrigation	0.00	0.00	9.22			
	Livestock	0.00	0.00	19.10			
	Industrial	0.00	125.48	0.00	0.00	124.95	0.00
	Fossil Fuel Power	39.10	7.93	0.00	39.10	7.93	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	170946.25	132949.60	0.00	170946.25	132949.60	0.00
	Other						
	Total:	171588.19	133580.18	99.91	171587.93	133575.95	48.61
Grand Total:		171588.19	133580.18	99.91	171587.93	133575.95	48.61

JURISDICTION REPORT - Quebec

Jurisdiction Totals

Units: Mgal(US)/d

Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	602.84	497.17	0.00	1100.01	0.00	0.00	109.90
Domestic Supply	0.00	0.00	71.59	71.59	0.00	0.00	7.13
Irrigation	0.00	0.00	9.22	9.22	0.00	0.00	8.30
Livestock	0.00	0.00	19.10	19.10	0.00	0.00	15.28
Industrial	0.00	125.48	0.00	125.48	0.00	0.00	12.55
Fossil Fuel Power	39.10	7.93	0.00	47.02	0.00	0.00	4.70
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	170946.25	132949.60	0.00	303895.85	0.00	0.00	0.00
Other					0.00	0.00	

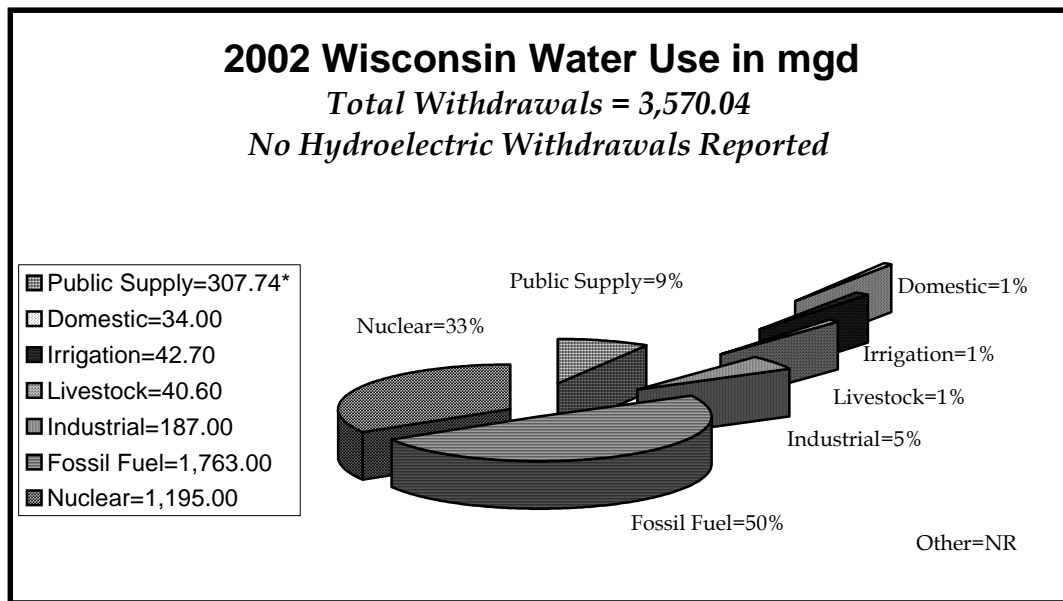
Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	602.58	493.47	0.00	1096.05	0.00	0.00	109.63
Domestic Supply	0.00	0.00	48.61	48.61	0.00	0.00	4.76
Irrigation					0.00	0.00	
Livestock					0.00	0.00	
Industrial	0.00	124.95	0.00	124.95	0.00	0.00	12.50
Fossil Fuel Power	39.10	7.93	0.00	47.02	0.00	0.00	4.70
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	170946.25	132949.60	0.00	303895.85	0.00	0.00	0.00
Other					0.00	0.00	

Wisconsin

Data Sources: Wisconsin 2004 water use data for the Lake Michigan and Lake Superior basins were submitted by the Wisconsin Department of Natural Resources—Bureau of Water Resources Management. Due to staffing constraints, data from 2002 were used for 2004, with the exception of public supply figures, which are current. Please contact Shaili Pfeiffer at 608/267-7630 or Shaili.Pfeiffer@wisconsin.gov with questions regarding Wisconsin's data.

Withdrawals: Total withdrawals were 3,570.04 mgd: 3,518.30 mgd from Lake Michigan (98% of the total) and 51.74 mgd from Lake Superior. Water use in the Lake Michigan basin was primarily for fossil fuel (1,725.00 mgd) and nuclear power (1,195.00 mgd)—at 49% and 34% respectively. Of the Lake Superior uses, the largest single use was for fossil fuel at 38.00 mgd at 73%.



* Public Supply data are from calendar year 2004.

Figure 14

Consumptive Use: Consumptive uses from Wisconsin's portion of the basin were calculated to be 136.08 mgd. Of this amount, public supply at 27%, and livestock watering at 24% comprised the largest portion.

Interbasin Diversions: A withdrawal for public supply at Pleasant Prairie diverts 0.40 mgd from the Lake Michigan basin to the Mississippi River basin. A small diversion remains at the Portage Canal site, with 0.64 mgd flowing from the Wisconsin River (the Mississippi River basin) into the Fox River (the Lake Michigan basin).

Data Quality: Wisconsin's withdrawal data for this report were 91% calculated or estimated and 9% measured; the level of aggregation was 91% aggregated and 9% site-specific.

JURISDICTION REPORT- Wisconsin

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d
Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Superior							
	Public Supply	3.74	0.00	0.50		0.00	
	Domestic Supply	1.40	0.00	0.14		0.00	
	Irrigation	0.30	0.00	0.21		0.00	
	Livestock	8.30	0.00	7.47		0.00	
	Industrial		0.00			0.00	
	Fossil Fuel Power	38.00	0.00	0.19		0.00	
	Nuclear Power	0.00	0.00	0.00		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		0.00			0.00	
	Total:	51.74	0.00	8.51		0.00	
Lake Michigan							
	Public Supply	304.00	0.40	31.90		0.00	
	Domestic Supply	32.60	0.00	3.26		0.00	
	Irrigation	42.40	0.00	29.68		0.00	
	Livestock	32.30	0.00	29.07		0.00	
	Industrial	187.00	0.00	19.07		0.00	
	Fossil Fuel Power	1725.00	0.00	8.62		0.00	
	Nuclear Power	1195.00	0.00	5.97		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		-0.64			0.00	
	Total:	3518.30	-0.24	127.57		0.00	
Grand Total:		3570.04	-0.24	136.08		0.00	

JURISDICTION REPORT - Wisconsin

Withdrawals by Source

Units: Mgal(US)/d

Year Of Data: 2004

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Superior							
	Public Supply	3.06	0.00	0.68			
	Domestic Supply	0.00	0.00	1.40			
	Irrigation	0.00	0.00	0.30			
	Livestock	0.00	0.00	8.30			
	Industrial						
	Fossil Fuel Power	38.00	0.00	0.00			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	Total:	41.06	0.00	10.68			
Lake Michigan							
	Public Supply	213.00	24.10	66.90			
	Domestic Supply	0.00	0.00	32.60			
	Irrigation	0.00	0.00	42.40			
	Livestock	0.00	0.00	32.30			
	Industrial	187.00	0.00	0.00			
	Fossil Fuel Power	1725.00	0.00	0.00			
	Nuclear Power	1195.00	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	Total:	3320.00	24.10	174.20			
Grand Total:		3361.06	24.10	184.88			

JURISDICTION REPORT - Wisconsin

Jurisdiction Totals

Units: Mgal(US)/d
Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Public Supply	216.06	24.10	67.58	307.74	0.00	0.40	32.40
Domestic Supply	0.00	0.00	34.00	34.00	0.00	0.00	3.40
Irrigation	0.00	0.00	42.70	42.70	0.00	0.00	29.89
Livestock	0.00	0.00	40.60	40.60	0.00	0.00	36.54
Industrial	187.00	0.00	0.00	187.00	0.00	0.00	19.07
Fossil Fuel Power	1763.00	0.00	0.00	1763.00	0.00	0.00	8.81
Nuclear Power	1195.00	0.00	0.00	1195.00	0.00	0.00	5.97
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other					0.00	-0.64	

Total Report - Principal Facilities

Category	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Public Supply					0.00	0.00	
Domestic Supply					0.00	0.00	
Irrigation					0.00	0.00	
Livestock					0.00	0.00	
Industrial					0.00	0.00	
Fossil Fuel Power					0.00	0.00	
Nuclear Power					0.00	0.00	
Hydroelectric Power					0.00	0.00	
Other					0.00	0.00	

IV. BASIN TABLES

Each basin is represented by three tables:
Withdrawals, Diversions and Consumptive Uses
Withdrawals by Source
Basin Totals

Lake Erie
Lake Huron
Lake Michigan
Lake Ontario
Lake Superior
St. Lawrence River

BASIN REPORT- Lake Erie

Withdrawals, Diversions
and Consumptive Uses

Units: Mgal(US)/d
Year Of Data: 2004

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Indiana							
	Public Supply	42.10	0.00	6.31	42.03	0.00	6.30
	Domestic Supply	6.24	0.00	0.94	0.33	0.00	0.05
	Irrigation	0.92	0.00	0.83	0.64	0.00	0.58
	Livestock	0.93	0.00	0.74	0.00	0.00	0.00
	Industrial	9.51	0.00	0.57	9.34	0.00	0.56
	Fossil Fuel Power	0.27	0.00	0.01	0.27	0.00	0.01
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	Total	59.97	0.00	9.40	52.61	0.00	7.50
Michigan							
	Public Supply	521.99	0.00	65.26		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	22.47	0.00	20.23		0.00	
	Livestock		0.00			0.00	
	Industrial	312.27	0.00	31.23		0.00	
	Fossil Fuel Power	4300.83	0.00	51.61		0.00	
	Nuclear Power	52.75	0.00	1.00		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		0.00			0.00	
	Total	5210.31	0.00	169.33		0.00	
New York							
	Public Supply	264.02	0.00	26.40		0.00	
	Domestic Supply	22.94	0.00	2.29	0.00	0.00	0.00
	Irrigation	0.86	0.00	0.78	0.86	0.00	0.78
	Livestock	4.30	0.00	3.87		0.00	
	Industrial	179.96	0.00	45.00	179.96	0.00	45.00
	Fossil Fuel Power	1072.17	0.00	21.44	1072.17	0.00	20.47
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	47372.00	0.00	0.00	47372.00	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	Total	48916.25	0.00	99.78	48624.99	0.00	66.25

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Ohio							
	Public Supply	565.02	0.32	84.76	558.60	0.32	83.79
	Domestic Supply	56.70	0.00	8.51	0.00	0.00	0.00
	Irrigation	14.84	0.00	13.36	9.74	0.00	8.78
	Livestock	12.38	0.00	9.90	0.60	0.00	0.48
	Industrial	192.39	0.00	19.24	191.45	0.00	19.15
	Fossil Fuel Power	2143.40	0.00	21.43	2143.34	0.00	21.43
	Nuclear Power	150.15	0.00	15.02	150.15	0.00	15.02
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	10.29	-10.10	0.00	10.00	-10.10	0.00
	Total	3145.17	-9.78	172.22	3063.88	-9.78	148.65
Ontario							
	Public Supply	93.89	0.00	14.08	92.84	0.00	13.92
	Domestic Supply	19.94	0.00	2.99	0.00	0.00	0.00
	Irrigation	31.85	0.00			0.00	
	Livestock	13.22	0.00			0.00	
	Industrial	180.45	0.00	11.37	0.00	0.00	0.00
	Fossil Fuel Power	463.20	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other		0.00			0.00	
	Total	802.56	0.00	28.44	92.84	0.00	13.92
Pennsylvania							
	Public Supply	34.10	-1.73	3.41	32.72	-1.73	3.27
	Domestic Supply	2.93	0.00	0.29		0.00	
	Irrigation	1.04	0.00	0.94	0.89	0.00	0.80
	Livestock	3.40	0.00	2.72	3.30	0.00	2.64
	Industrial	7.84	0.00		5.59	0.00	0.11
	Fossil Fuel Power	0.03	0.00	0.00		0.00	
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other		0.00			0.00	
	Total	49.33	-1.73	7.36	42.50	-1.73	6.83
Grand Total:		58183.59	-11.51	486.53	51876.82	-11.51	243.15

BASIN REPORT- Lake Erie

Units: Mgal(US)/d
 Withdrawals by Source
 Year Of Data: 2004

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Indiana							
	Public Supply	0.00	32.60	9.50	0.00	32.60	9.43
	Domestic Supply	0.00	0.00	6.24	0.00	0.00	0.33
	Irrigation	0.00	0.31	0.61	0.00	0.19	0.45
	Livestock	0.00	0.00	0.93	0.00	0.00	0.00
	Industrial	0.00	4.86	4.65	0.00	4.86	4.48
	Fossil Fuel Power	0.00	0.00	0.27	0.00	0.00	0.27
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	0.00	37.77	22.20	0.00	37.65	14.96
Michigan							
	Public Supply	465.48	16.60	39.91			
	Domestic Supply						
	Irrigation	0.43	12.54	9.50			
	Livestock						
	Industrial	287.06	11.63	13.58			
	Fossil Fuel Power	4145.47	155.28	0.08			
	Nuclear Power	52.75	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	TOTAL	4951.19	196.05	63.07			
New York							
	Public Supply	184.58	72.12	7.32			
	Domestic Supply	12.33	0.00	10.61	0.00	0.00	0.00
	Irrigation	0.14	0.72	0.00	0.14	0.72	0.00
	Livestock	1.54	0.00	2.76			
	Industrial	178.83	1.10	0.03	178.83	1.10	0.03
	Fossil Fuel Power	1072.17	0.00	0.00	1072.17	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	47372.00	0.00	0.00	47372.00	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	48821.59	73.94	20.72	48623.14	1.82	0.03

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Ohio							
	Public Supply	416.98	109.92	38.12	416.85	109.54	32.21
	Domestic Supply	0.00	0.00	56.70	0.00	0.00	0.00
	Irrigation	0.24	11.71	2.89	0.13	8.40	1.21
	Livestock	0.00	1.98	10.40	0.00	0.22	0.38
	Industrial	53.59	103.26	35.54	53.59	102.91	34.95
	Fossil Fuel Power	1467.14	676.21	0.05	1467.13	676.21	0.00
	Nuclear Power	150.15	0.00	0.00	150.15	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.68	9.11	0.50	0.64	9.00	0.36
	TOTAL	2088.78	912.19	144.20	2088.49	906.28	69.11
Ontario							
	Public Supply	8.97	29.26	55.66	8.97	29.23	54.64
	Domestic Supply	0.00	0.00	19.94	0.00	0.00	0.00
	Irrigation	0.59	12.11	19.15			
	Livestock	0.02	0.89	12.31			
	Industrial	173.24	0.00	7.21	0.00	0.00	0.00
	Fossil Fuel Power	463.20	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other						
	TOTAL	646.02	42.26	114.27	8.97	29.23	54.64
Pennsylvania							
	Public Supply	29.82	2.49	1.79	29.82	2.31	0.59
	Domestic Supply	0.00	0.00	2.93			
	Irrigation	0.02	1.02	0.01	0.00	0.89	0.00
	Livestock	0.00	2.20	1.20	0.00	2.10	1.20
	Industrial	5.59	2.20	0.04	5.59	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.03			
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other						
	TOTAL	35.42	7.91	6.00	35.41	5.31	1.79
Grand Total:		56543.01	1270.12	370.46	50756.00	980.28	140.53

BASIN REPORT- Lake Erie

Basin Total

Units: Mgal(US)/d

Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1105.82	263.00	152.30	1521.12	0.00	-1.41	200.22
Domestic Supply	12.33	0.00	96.41	108.74	0.00	0.00	15.02
Irrigation	1.42	38.41	32.16	71.99	0.00	0.00	36.14
Livestock	1.56	5.06	27.60	34.23	0.00	0.00	17.23
Industrial	698.31	123.05	61.05	882.42	0.00	0.00	107.41
Fossil Fuel Power	7147.98	831.49	0.43	7979.90	0.00	0.00	94.49
Nuclear Power	202.90	0.00	0.00	202.90	0.00	0.00	16.02
Hydroelectric Power	47372.00	0.00	0.00	47372.00	0.00	0.00	0.00
Other	0.68	9.11	0.50	10.29	5816.39	-10.10	0.00

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	455.63	173.68	96.87	726.18	0.00	-1.41	107.29
Domestic Supply	0.00	0.00	0.33	0.33	0.00	0.00	0.05
Irrigation	0.27	10.20	1.66	12.13	0.00	0.00	10.94
Livestock	0.00	2.32	1.58	3.90	0.00	0.00	3.12
Industrial	238.01	108.87	39.46	386.34	0.00	0.00	64.82
Fossil Fuel Power	2539.30	676.21	0.27	3215.78	0.00	0.00	41.91
Nuclear Power	150.15	0.00	0.00	150.15	0.00	0.00	15.02
Hydroelectric Power	47372.00	0.00	0.00	47372.00	0.00	0.00	0.00
Other	0.64	9.00	0.36	10.00	5816.39	-10.10	0.00

BASIN REPORT- Lake Huron

Withdrawals, Diversions
and Consumptive Uses

Units: Mgal(US)/d
Year Of Data: 2004

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Michigan							
	Public Supply	301.72	0.00	37.72		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	25.86	0.00	23.28		0.00	
	Livestock		0.00			0.00	
	Industrial	34.71	0.00	3.48		0.00	
	Fossil Fuel Power	728.91	0.00	8.74		0.00	
	Nuclear Power	0.00	0.00	0.00		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		0.00			0.00	
	Total	1091.20	0.00	73.22		0.00	
Ontario							
	Public Supply	84.37	0.00	12.65	81.66	0.00	12.25
	Domestic Supply	10.61	0.00	1.59	0.00	0.00	0.00
	Irrigation	20.91	0.00			0.00	
	Livestock	12.41	0.00			0.00	
	Industrial	190.19	0.00	11.98	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	4697.20	0.00	42.28	0.00	0.00	0.00
	Hydroelectric Power	33608.07	0.00	0.00	0.00	0.00	0.00
	Other	47.97	0.00	0.00	47.97	0.00	0.00
	Total	38671.73	0.00	68.50	129.63	0.00	12.25
Grand Total:		39762.93	0.00	141.72	129.63	0.00	12.25

BASIN REPORT- Lake Huron

Units: Mgal(US)/d
 Withdrawals by Source
 Year Of Data: 2004

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Michigan							
	Public Supply	272.53	0.66	28.53			
	Domestic Supply						
	Irrigation	2.73	9.68	13.45			
	Livestock						
	Industrial	19.55	13.18	1.98			
	Fossil Fuel Power	722.43	5.26	1.22			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	TOTAL	1017.24	28.78	45.18			
Ontario							
	Public Supply	42.66	23.57	18.14	42.02	23.23	16.40
	Domestic Supply	0.00	0.00	10.61	0.00	0.00	0.00
	Irrigation	0.15	15.41	5.35			
	Livestock	2.93	3.07	6.41			
	Industrial	187.41	0.00	2.78	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	4697.20	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	20000.41	13607.66	0.00	0.00	0.00	0.00
	Other	0.00	47.97	0.00	0.00	47.97	0.00
	TOTAL	24930.76	13697.68	43.29	42.02	71.20	16.40
Grand Total:		25948.00	13726.46	88.47	42.02	71.20	16.40

BASIN REPORT- Lake Huron

Basin Total

Units: Mgal(US)/d

Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	315.19	24.23	46.67	386.09	0.00	0.00	50.37
Domestic Supply	0.00	0.00	10.61	10.61	0.00	0.00	1.59
Irrigation	2.88	25.09	18.80	46.77	0.00	0.00	23.28
Livestock	2.93	3.07	6.41	12.41	0.00	0.00	
Industrial	206.96	13.18	4.76	224.90	0.00	0.00	15.46
Fossil Fuel Power	722.43	5.26	1.22	728.91	0.00	0.00	8.74
Nuclear Power	4697.20	0.00	0.00	4697.20	0.00	0.00	42.28
Hydroelectric Power	20000.41	13607.66	0.00	33608.07	0.00	0.00	0.00
Other	0.00	47.97	0.00	47.97	47.97	0.00	0.00

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	42.02	23.23	16.40	81.66	0.00	0.00	12.25
Domestic Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Irrigation					0.00	0.00	
Livestock					0.00	0.00	
Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	47.97	0.00	47.97	47.97	0.00	0.00

BASIN REPORT- Lake Michigan

Withdrawals, Diversions
and Consumptive Uses

Units: Mgal(US)/d
Year Of Data: 2004

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Illinois							
	Public Supply	0.00	1003.65	0.00	0.00	1003.65	0.00
	Domestic Supply	3.90	0.04	0.39	3.90	0.04	0.39
	Irrigation		0.00		0.00	0.00	
	Livestock		0.00		0.00	0.00	
	Industrial	18.82	0.02	1.13	18.82	0.00	1.13
	Fossil Fuel Power	768.25	0.00	15.37	768.25	0.00	15.37
	Nuclear Power	31.70	0.00	0.32	31.70	0.00	0.32
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.00	218.10	0.00	0.00	218.10	0.00
	Total	822.67	1221.81	17.20	822.67	1221.79	17.20
Indiana							
	Public Supply	137.29	-0.81	20.59	136.91	0.00	20.53
	Domestic Supply	43.56	0.00	6.54	21.29	0.00	3.20
	Irrigation	19.40	0.00	17.46	18.04	0.00	16.24
	Livestock	4.76	0.00	3.81	2.71	0.00	2.17
	Industrial	1742.87	0.00	104.57	1742.34	0.00	104.54
	Fossil Fuel Power	766.10	0.00	15.32	766.10	0.00	15.32
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	2082.75	0.00	0.00	2082.75	0.00	0.00
	Other	0.16	0.00	0.02	0.09	0.00	0.01
	Total	4796.89	-0.81	168.31	4770.23	0.00	162.01
Michigan							
	Public Supply	308.59	0.00	38.58		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	241.43	0.00	217.29		0.00	
	Livestock		0.00			0.00	
	Industrial	268.58	0.00	26.87		0.00	
	Fossil Fuel Power	1214.95	0.00	14.57		0.00	
	Nuclear Power	2317.20	0.00	44.03		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		0.00			0.00	
	Total	4350.75	0.00	341.34		0.00	

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Wisconsin							
	Public Supply	304.00	0.40	31.90		0.00	
	Domestic Supply	32.60	0.00	3.26		0.00	
	Irrigation	42.40	0.00	29.68		0.00	
	Livestock	32.30	0.00	29.07		0.00	
	Industrial	187.00	0.00	19.07		0.00	
	Fossil Fuel Power	1725.00	0.00	8.62		0.00	
	Nuclear Power	1195.00	0.00	5.97		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		-0.64			0.00	
	Total	3518.30	-0.24	127.57		0.00	
Grand Total:		13488.61	1220.76	654.42	5592.90	1221.79	179.21

BASIN REPORT- Lake Michigan

Units: Mgal(US)/d
 Withdrawals by Source
 Year Of Data: 2004

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Illinois							
	Public Supply	0.00	0.00	0.00	0.00	0.00	0.00
	Domestic Supply	3.87	0.00	0.02	3.87	0.00	0.02
	Irrigation				0.00	0.00	0.00
	Livestock				0.00	0.00	0.00
	Industrial	18.82	0.00	0.00	18.82	0.00	0.00
	Fossil Fuel Power	768.25	0.00	0.00	768.25	0.00	0.00
	Nuclear Power	31.70	0.00	0.00	31.70	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	822.64	0.00	0.02	822.64	0.00	0.02

Indiana							
	Public Supply	92.49	0.00	44.80	92.49	0.00	44.42
	Domestic Supply	0.00	13.86	29.70	0.00	13.85	7.44
	Irrigation	0.00	4.34	15.06	0.00	3.88	14.16
	Livestock	0.00	1.36	3.40	0.00	1.36	1.35
	Industrial	1728.97	4.91	8.99	1728.94	4.90	8.50
	Fossil Fuel Power	766.10	0.00	0.00	766.10	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	2082.75	0.00	0.00	2082.75	0.00
	Other	0.00	0.03	0.13	0.00	0.03	0.06
	TOTAL	2587.56	2107.25	102.08	2587.53	2106.77	75.93

Michigan							
	Public Supply	137.40	0.51	170.68			
	Domestic Supply						
	Irrigation	1.79	75.85	163.79			
	Livestock						
	Industrial	107.26	88.25	73.07			
	Fossil Fuel Power	896.01	316.13	2.81			
	Nuclear Power	2317.20	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	TOTAL	3459.66	480.74	410.35			

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Wisconsin							
	Public Supply	213.00	24.10	66.90			
	Domestic Supply	0.00	0.00	32.60			
	Irrigation	0.00	0.00	42.40			
	Livestock	0.00	0.00	32.30			
	Industrial	187.00	0.00	0.00			
	Fossil Fuel Power	1725.00	0.00	0.00			
	Nuclear Power	1195.00	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	TOTAL	3320.00	24.10	174.20			
Grand Total:		10189.86	2612.09	686.65	3410.17	2106.77	75.95

BASIN REPORT- Lake Michigan

Basin Total

Units: Mgal(US)/d

Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	442.89	24.61	282.38	749.88	0.00	1003.24	91.07
Domestic Supply	3.87	13.86	62.32	80.06	0.00	0.04	10.19
Irrigation	1.79	80.19	221.25	303.23	0.00	0.00	264.43
Livestock	0.00	1.36	35.70	37.06	0.00	0.00	32.88
Industrial	2042.05	93.16	82.06	2217.27	0.00	0.02	151.64
Fossil Fuel Power	4155.36	316.13	2.81	4474.30	0.00	0.00	53.88
Nuclear Power	3543.90	0.00	0.00	3543.90	0.00	0.00	50.32
Hydroelectric Power	0.00	2082.75	0.00	2082.75	0.00	0.00	0.00
Other	0.00	0.03	0.13	0.16	0.00	217.46	0.02

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	92.49	0.00	44.42	136.91	0.00	1003.65	20.53
Domestic Supply	3.87	13.85	7.46	25.19	0.00	0.04	3.59
Irrigation	0.00	3.88	14.16	18.04	0.00	0.00	16.24
Livestock	0.00	1.36	1.35	2.71	0.00	0.00	2.17
Industrial	1747.76	4.90	8.50	1761.16	0.00	0.00	105.67
Fossil Fuel Power	1534.35	0.00	0.00	1534.35	0.00	0.00	30.69
Nuclear Power	31.70	0.00	0.00	31.70	0.00	0.00	0.32
Hydroelectric Power	0.00	2082.75	0.00	2082.75	0.00	0.00	0.00
Other	0.00	0.03	0.06	0.09	0.00	218.10	0.01

BASIN REPORT- Lake Ontario

Withdrawals, Diversions
and Consumptive Uses

Units: Mgal(US)/d
Year Of Data: 2004

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
New York							
	Public Supply	390.71	9.59	47.70		9.59	0.00
	Domestic Supply	89.08	0.00	8.91	27.19	0.00	2.72
	Irrigation	3.59	0.00	3.24	3.59	0.00	3.24
	Livestock	11.19	0.00	10.07		0.00	6.53
	Industrial	72.71	0.00	18.18	72.71	0.00	18.18
	Fossil Fuel Power	799.37	0.00	15.99	799.37	0.00	15.99
	Nuclear Power	1380.38	0.00	69.02	1380.38	0.00	69.02
	Hydroelectric Power	80908.00	0.00	0.00	0.00	0.00	0.00
	Other	38.69	32.00	32.67	38.69	32.00	32.67
	Total	83693.72	41.59	205.78	2321.93	41.59	148.35
Ontario							
	Public Supply	465.93	0.00	69.89	464.62	0.00	69.69
	Domestic Supply	64.17	0.00	9.63	0.00	0.00	0.00
	Irrigation	17.73	0.00			0.00	
	Livestock	5.40	0.00			0.00	
	Industrial	229.64	0.00	14.47	0.00	0.00	0.00
	Fossil Fuel Power	708.95	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	5428.19	0.00	48.85	0.00	0.00	0.00
	Hydroelectric Power	41542.31	0.00	0.00	0.00	0.00	0.00
	Other	132.35	0.00	0.00	132.35	0.00	0.00
	Total	48594.67	0.00	142.84	596.97	0.00	69.69
Pennsylvania							
	Public Supply	0.06	0.00	0.01		0.00	
	Domestic Supply	0.17	0.00	0.02	0.00	0.00	0.00
	Irrigation		0.00			0.00	
	Livestock		0.00			0.00	
	Industrial		0.00			0.00	
	Fossil Fuel Power		0.00			0.00	
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other		0.00			0.00	
	Total	0.23	0.00	0.02	0.00	0.00	0.00
Grand Total:		132288.62	41.59	348.64	2918.90	41.59	218.04

BASIN REPORT- Lake Ontario

Units: Mgal(US)/d
 Withdrawals by Source
 Year Of Data: 2004

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
New York							
	Public Supply	187.28	170.51	32.92			
	Domestic Supply	21.10	27.19	40.79	0.00	27.19	0.00
	Irrigation	0.00	3.44	0.15	0.00	3.44	0.15
	Livestock	3.93	0.00	7.26			
	Industrial	26.16	36.78	9.77	26.16	36.78	9.77
	Fossil Fuel Power	439.99	359.38	0.00	439.99	359.38	0.00
	Nuclear Power	1380.38	0.00	0.00	1380.38	0.00	0.00
	Hydroelectric Power	0.00	80908.00	0.00	0.00	0.00	0.00
	Other	0.00	38.43	0.26	0.00	38.43	0.26
	TOTAL	2058.84	81543.73	91.15	1846.53	465.22	10.18
Ontario							
	Public Supply	401.52	52.86	11.56	401.47	52.68	10.47
	Domestic Supply	0.00	0.00	64.17	0.00	0.00	0.00
	Irrigation	1.08	9.53	7.12			
	Livestock	0.00	0.94	4.46			
	Industrial	218.17	0.00	11.46	0.00	0.00	0.00
	Fossil Fuel Power	708.95	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	5428.19	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	33861.04	7681.26	0.00	0.00	0.00	0.00
	Other	0.00	132.35	0.00	0.00	132.35	0.00
	TOTAL	40618.96	7876.94	98.77	401.47	185.03	10.47
Pennsylvania							
	Public Supply	0.00	0.00	0.06			
	Domestic Supply	0.00	0.00	0.17	0.00	0.00	0.00
	Irrigation						
	Livestock						
	Industrial						
	Fossil Fuel Power						
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other						
	TOTAL	0.00	0.00	0.23	0.00	0.00	0.00
Grand Total:		42677.80	89420.67	190.15	2248.00	650.25	20.65

BASIN REPORT- Lake Ontario

Basin Total

Units: Mgal(US)/d

Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	588.80	223.37	44.54	856.70	0.00	9.59	117.60
Domestic Supply	21.10	27.19	105.13	153.42	0.00	0.00	18.55
Irrigation	1.08	12.97	7.27	21.32	0.00	0.00	3.24
Livestock	3.93	0.94	11.72	16.59	0.00	0.00	10.07
Industrial	244.33	36.78	21.23	302.35	0.00	0.00	32.65
Fossil Fuel Power	1148.94	359.38	0.00	1508.32	0.00	0.00	15.99
Nuclear Power	6808.57	0.00	0.00	6808.57	0.00	0.00	117.87
Hydroelectric Power	33861.04	88589.26	0.00	122450.31	0.00	0.00	0.00
Other	0.00	170.78	0.26	171.04	-5802.39	32.00	32.67

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	401.47	52.68	10.47	464.62	0.00	9.59	69.69
Domestic Supply	0.00	27.19	0.00	27.19	0.00	0.00	2.72
Irrigation	0.00	3.44	0.15	3.59	0.00	0.00	3.24
Livestock					0.00	0.00	6.53
Industrial	26.16	36.78	9.77	72.71	0.00	0.00	18.18
Fossil Fuel Power	439.99	359.38	0.00	799.37	0.00	0.00	15.99
Nuclear Power	1380.38	0.00	0.00	1380.38	0.00	0.00	69.02
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	170.78	0.26	171.04	-5802.39	32.00	32.67

BASIN REPORT- Lake Superior

Withdrawals, Diversions
and Consumptive Uses

Units: Mgal(US)/d
Year Of Data: 2004

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Michigan							
	Public Supply	11.90	0.00	1.49		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	0.52	0.00	0.47		0.00	
	Livestock		0.00			0.00	
	Industrial	13.20	0.00	1.32		0.00	
	Fossil Fuel Power	270.36	0.00	3.24		0.00	
	Nuclear Power	0.00	0.00	0.00		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		0.00			0.00	
	Total	295.98	0.00	6.52		0.00	
Minnesota							
	Public Supply	40.92	0.00	4.09	40.25	0.00	4.03
	Domestic Supply	1.75	0.00	0.18	1.55	0.00	0.16
	Irrigation	0.40	0.00	0.36	0.13	0.00	0.12
	Livestock	0.67	0.00	0.60	0.62	0.00	0.55
	Industrial	345.87	0.00	34.59	345.51	0.00	34.56
	Fossil Fuel Power	182.48	0.00	3.65	182.37	0.00	3.65
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	3609.20	0.00	0.00	3609.20	0.00	0.00
	Other	0.10	0.00	0.00	0.00	0.00	0.00
	Total	4181.39	0.00	43.47	4179.63	0.00	43.06
Ontario							
	Public Supply	45.77	0.00	6.87	45.58	0.00	6.84
	Domestic Supply	1.75	0.00	0.26	0.00	0.00	0.00
	Irrigation	0.37	0.00			0.00	
	Livestock	0.14	0.00			0.00	
	Industrial	162.12	0.00	10.21	0.00	0.00	0.00
	Fossil Fuel Power	295.52	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	38156.31	-4007.75	0.00	0.00	0.00	0.00
	Other		0.00			0.00	
	Total	38661.99	-4007.75	17.34	45.58	0.00	6.84

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Wisconsin							
	Public Supply	3.74	0.00	0.50		0.00	
	Domestic Supply	1.40	0.00	0.14		0.00	
	Irrigation	0.30	0.00	0.21		0.00	
	Livestock	8.30	0.00	7.47		0.00	
	Industrial		0.00			0.00	
	Fossil Fuel Power	38.00	0.00	0.19		0.00	
	Nuclear Power	0.00	0.00	0.00		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		0.00			0.00	
	Total	51.74	0.00	8.51		0.00	
Grand Total:		43191.10	-4007.75	75.84	4225.20	0.00	49.90

BASIN REPORT- Lake Superior

Units: Mgal(US)/d
 Withdrawals by Source
 Year Of Data: 2004

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Michigan							
	Public Supply	3.77	0.00	8.13			
	Domestic Supply						
	Irrigation	0.01	0.27	0.24			
	Livestock						
	Industrial	12.73	0.00	0.47			
	Fossil Fuel Power	270.36	0.00	0.00			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	TOTAL	286.87	0.27	8.84			
Minnesota							
	Public Supply	33.02	2.92	4.98	32.97	2.89	4.40
	Domestic Supply	0.96	0.77	0.02	0.92	0.63	0.00
	Irrigation	0.03	0.36	0.01	0.00	0.13	0.00
	Livestock	0.67	0.00	0.00	0.62	0.00	0.00
	Industrial	286.26	59.59	0.02	286.25	59.26	0.00
	Fossil Fuel Power	0.00	182.36	0.12	0.00	182.27	0.10
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	3609.20	0.00	0.00	3609.20	0.00
	Other	0.00	0.00	0.10	0.00	0.00	0.00
	TOTAL	320.94	3855.20	5.25	320.75	3854.38	4.50
Ontario							
	Public Supply	30.10	13.03	2.65	30.07	12.96	2.55
	Domestic Supply	0.00	0.00	1.75	0.00	0.00	0.00
	Irrigation	0.02	0.31	0.05			
	Livestock	0.00	0.14	0.00			
	Industrial	162.12	0.00	0.00	0.00	0.00	0.00
	Fossil Fuel Power	295.52	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	38156.31	0.00	0.00	0.00	0.00
	Other						
	TOTAL	487.76	38169.79	4.44	30.07	12.96	2.55

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Wisconsin							
	Public Supply	3.06	0.00	0.68			
	Domestic Supply	0.00	0.00	1.40			
	Irrigation	0.00	0.00	0.30			
	Livestock	0.00	0.00	8.30			
	Industrial						
	Fossil Fuel Power	38.00	0.00	0.00			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	TOTAL	41.06	0.00	10.68			
Grand Total:		1136.63	42025.26	29.22	350.82	3867.33	7.05

BASIN REPORT- Lake Superior

Basin Total

Units: Mgal(US)/d

Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	69.95	15.95	16.44	102.33	0.00	0.00	12.95
Domestic Supply	0.96	0.77	3.17	4.90	0.00	0.00	0.58
Irrigation	0.06	0.94	0.60	1.59	0.00	0.00	1.04
Livestock	0.67	0.14	8.30	9.11	0.00	0.00	8.07
Industrial	461.11	59.59	0.49	521.19	0.00	0.00	46.12
Fossil Fuel Power	603.88	182.36	0.12	786.36	0.00	0.00	7.08
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	41765.51	0.00	41765.51	0.00	-4007.75	0.00
Other	0.00	0.00	0.10	0.10	0.00	0.00	0.00

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	63.03	15.84	6.94	85.82	0.00	0.00	10.87
Domestic Supply	0.92	0.63	0.00	1.55	0.00	0.00	0.16
Irrigation	0.00	0.13	0.00	0.13	0.00	0.00	0.12
Livestock	0.62	0.00	0.00	0.62	0.00	0.00	0.55
Industrial	286.25	59.26	0.00	345.51	0.00	0.00	34.56
Fossil Fuel Power	0.00	182.27	0.10	182.37	0.00	0.00	3.65
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	3609.20	0.00	3609.20	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BASIN REPORT- St. Lawrence River

Withdrawals, Diversions
and Consumptive Uses

Units: Mgal(US)/d
Year Of Data: 2004

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
New York							
	Public Supply	39.92	0.00	4.00		0.00	
	Domestic Supply	15.25	0.00	1.53	0.58	0.00	0.06
	Irrigation	0.05	0.00	0.04	0.05	0.00	0.04
	Livestock	5.08	0.00	4.57		0.00	
	Industrial	13.99	0.00	3.51	13.99	0.00	3.51
	Fossil Fuel Power	0.11	0.00	0.00	0.11	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	181707.00	0.00	0.00	83015.00	0.00	0.00
	Other	3.88	0.00	0.39	3.88	0.00	0.39
	Total	181785.28	0.00	14.04	83033.61	0.00	4.00
Ontario							
	Public Supply	73.03	0.00	10.96	72.08	0.00	10.82
	Domestic Supply	11.45	0.00	1.72	0.00	0.00	0.00
	Irrigation	2.35	0.00			0.00	
	Livestock	5.91	0.00			0.00	
	Industrial	160.81	0.00	10.13	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	76235.15	0.00	0.00	0.00	0.00	0.00
	Other	19.28	0.00	0.00	19.28	0.00	0.00
	Total	76507.99	0.00	22.80	91.37	0.00	10.82
Quebec							
	Public Supply	1100.01	0.00	109.90	1096.05	0.00	109.63
	Domestic Supply	71.59	0.00	7.13	48.61	0.00	4.76
	Irrigation	9.22	0.00	8.30		0.00	
	Livestock	19.10	0.00	15.28		0.00	
	Industrial	125.48	0.00	12.55	124.95	0.00	12.50
	Fossil Fuel Power	47.02	0.00	4.70	47.02	0.00	4.70
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	303895.85	0.00	0.00	303895.85	0.00	0.00
	Other		0.00			0.00	
	Total	305268.28	0.00	157.86	305212.48	0.00	131.58
Grand Total:		563561.54	0.00	194.70	388337.46	0.00	146.40

BASIN REPORT- St. Lawrence River

Units: Mgal(US)/d
 Withdrawals by Source
 Year Of Data: 2004

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
New York							
	Public Supply	2.80	32.47	4.65			
	Domestic Supply	2.55	0.58	12.12	0.00	0.58	0.00
	Irrigation	0.00	0.05	0.00	0.00	0.05	0.00
	Livestock	1.77	0.00	3.31			
	Industrial	5.26	6.54	2.19	5.26	6.54	2.19
	Fossil Fuel Power	0.11	0.00	0.00	0.11	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	83015.00	98692.00	0.00	83015.00	0.00	0.00
	Other	0.00	3.88	0.00	0.00	3.88	0.00
	TOTAL	83027.49	98735.52	22.27	83020.37	11.05	2.19
Ontario							
	Public Supply	10.64	58.84	3.56	10.64	58.52	2.93
	Domestic Supply	0.00	0.00	11.45	0.00	0.00	0.00
	Irrigation	0.01	2.04	0.30			
	Livestock	0.00	3.63	2.28			
	Industrial	159.76	0.00	1.05	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	76149.02	86.13	0.00	0.00	0.00	0.00
	Other	0.00	19.28	0.00	0.00	19.28	0.00
	TOTAL	76319.43	169.91	18.65	10.64	77.80	2.93
Quebec							
	Public Supply	602.84	497.17	0.00	602.58	493.47	0.00
	Domestic Supply	0.00	0.00	71.59	0.00	0.00	48.61
	Irrigation	0.00	0.00	9.22			
	Livestock	0.00	0.00	19.10			
	Industrial	0.00	125.48	0.00	0.00	124.95	0.00
	Fossil Fuel Power	39.10	7.93	0.00	39.10	7.93	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	170946.25	132949.60	0.00	170946.25	132949.60	0.00
	Other						
	TOTAL	171588.19	133580.18	99.91	171587.93	133575.95	48.61
Grand Total:		330935.11	232485.61	140.83	254618.94	133664.80	53.72

BASIN REPORT- St. Lawrence River

Basin Total

Units: Mgal(US)/d

Year Of Data: 2004

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	616.28	588.48	8.21	1212.96	0.00	0.00	124.85
Domestic Supply	2.55	0.58	95.16	98.29	0.00	0.00	10.38
Irrigation	0.01	2.09	9.52	11.62	0.00	0.00	8.34
Livestock	1.77	3.63	24.69	30.09	0.00	0.00	19.85
Industrial	165.02	132.02	3.24	300.28	0.00	0.00	26.19
Fossil Fuel Power	39.21	7.93	0.00	47.13	0.00	0.00	4.70
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	330110.28	231727.72	0.00	561838.00	0.00	0.00	0.00
Other	0.00	23.16	0.00	23.16	0.00	0.00	0.39

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	613.22	551.99	2.93	1168.13	0.00	0.00	120.45
Domestic Supply	0.00	0.58	48.61	49.19	0.00	0.00	4.82
Irrigation	0.00	0.05	0.00	0.05	0.00	0.00	0.04
Livestock					0.00	0.00	
Industrial	5.26	131.49	2.19	138.94	0.00	0.00	16.01
Fossil Fuel Power	39.21	7.93	0.00	47.13	0.00	0.00	4.70
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	253961.25	132949.60	0.00	386910.85	0.00	0.00	0.00
Other	0.00	23.16	0.00	23.16	0.00	0.00	0.39

V. WATER USE CATEGORY TABLES

Each water use category is represented by two tables:

Water Use by Jurisdiction

Water Use by Basin

Public Supply-Domestic & Industrial

Self Supply-Domestic

Self Supply – Irrigation

Self Supply-Livestock

Self Supply-Industrial

Self Supply-Thermoelectric Power, Fossil Fuel

Self Supply-Thermoelectric Power, Nuclear Power

Self Supply-Hydroelectric Power

Self Supply-Other

WATER-USE CATEGORY REPORT - Public Supply

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	0.00	0.00	0.00	0.00	0.00	1003.65	0.00
Indiana	92.49	32.60	54.30	179.39	0.00	-0.81	26.90
Michigan	879.18	17.77	247.25	1144.20	0.00	0.00	143.05
Minnesota	33.02	2.92	4.98	40.92	0.00	0.00	4.09
New York	374.66	275.10	44.89	694.65	0.00	9.59	78.10
Ohio	416.98	109.92	38.12	565.02	0.00	0.32	84.76
Ontario	493.88	177.55	91.57	763.00	0.00	0.00	114.45
Pennsylvania	29.82	2.49	1.85	34.16	0.00	-1.73	3.42
Quebec	602.84	497.17	0.00	1100.01	0.00	0.00	109.90
Wisconsin	216.06	24.10	67.58	307.74	0.00	0.40	32.40

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	0.00	0.00	0.00	0.00	0.00	1003.65	0.00
Indiana	92.49	32.60	53.85	178.94	0.00	0.00	26.83
Michigan					0.00	0.00	
Minnesota	32.97	2.89	4.40	40.25	0.00	0.00	4.03
New York					0.00	9.59	0.00
Ohio	416.85	109.54	32.21	558.60	0.00	0.32	83.79
Ontario	493.17	176.61	87.00	756.78	0.00	0.00	113.52
Pennsylvania	29.82	2.31	0.59	32.72	0.00	-1.73	3.27
Quebec	602.58	493.47	0.00	1096.05	0.00	0.00	109.63
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT- Public Supply

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Basin - All Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	69.95	15.95	16.44	102.33	0.00	0.00	12.95
Lake Michigan	442.89	24.61	282.38	749.88	0.00	1003.24	91.07
Lake Huron	315.19	24.23	46.67	386.09	0.00	0.00	50.37
Lake Erie	1105.82	263.00	152.30	1521.12	0.00	-1.41	200.22
Lake Ontario	588.80	223.37	44.54	856.70	0.00	9.59	117.60
St. Lawrence River	616.28	588.48	8.21	1212.96	0.00	0.00	124.85

Water-Use by Basin - Principal Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	63.03	15.84	6.94	85.82	0.00	0.00	10.87
Lake Michigan	92.49	0.00	44.42	136.91	0.00	1003.65	20.53
Lake Huron	42.02	23.23	16.40	81.66	0.00	0.00	12.25
Lake Erie	455.63	173.68	96.87	726.18	0.00	-1.41	107.29
Lake Ontario	401.47	52.68	10.47	464.62	0.00	9.59	69.69
St. Lawrence River	613.22	551.99	2.93	1168.13	0.00	0.00	120.45

WATER-USE CATEGORY REPORT- Domestic Supply

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	3.87	0.00	0.02	3.90	0.00	0.04	0.39
Indiana	0.00	13.86	35.94	49.80	0.00	0.00	7.48
Michigan					0.00	0.00	
Minnesota	0.96	0.77	0.02	1.75	0.00	0.00	0.18
New York	35.98	27.77	63.52	127.27	0.00	0.00	12.73
Ohio	0.00	0.00	56.70	56.70	0.00	0.00	8.51
Ontario	0.00	0.00	107.91	107.91	0.00	0.00	16.19
Pennsylvania	0.00	0.00	3.10	3.10	0.00	0.00	0.31
Quebec	0.00	0.00	71.59	71.59	0.00	0.00	7.13
Wisconsin	0.00	0.00	34.00	34.00	0.00	0.00	3.40

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	3.87	0.00	0.02	3.90	0.00	0.04	0.39
Indiana	0.00	13.85	7.77	21.62	0.00	0.00	3.25
Michigan					0.00	0.00	
Minnesota	0.92	0.63	0.00	1.55	0.00	0.00	0.16
New York	0.00	27.77	0.00	27.77	0.00	0.00	2.78
Ohio	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	0.00	0.00	48.61	48.61	0.00	0.00	4.76
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT- Domestic Supply

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.96	0.77	3.17	4.90	0.00	0.00	0.58
Lake Michigan	3.87	13.86	62.32	80.06	0.00	0.04	10.19
Lake Huron	0.00	0.00	10.61	10.61	0.00	0.00	1.59
Lake Erie	12.33	0.00	96.41	108.74	0.00	0.00	15.02
Lake Ontario	21.10	27.19	105.13	153.42	0.00	0.00	18.55
St. Lawrence River	2.55	0.58	95.16	98.29	0.00	0.00	10.38

Water-Use by Basin - Principal Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.92	0.63	0.00	1.55	0.00	0.00	0.16
Lake Michigan	3.87	13.85	7.46	25.19	0.00	0.04	3.59
Lake Huron	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Erie	0.00	0.00	0.33	0.33	0.00	0.00	0.05
Lake Ontario	0.00	27.19	0.00	27.19	0.00	0.00	2.72
St. Lawrence River	0.00	0.58	48.61	49.19	0.00	0.00	4.82

WATER-USE CATEGORY REPORT - Irrigation

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois					0.00	0.00	
Indiana	0.00	4.65	15.67	20.32	0.00	0.00	18.29
Michigan	4.96	98.34	186.98	290.28	0.00	0.00	261.27
Minnesota	0.03	0.36	0.01	0.40	0.00	0.00	0.36
New York	0.14	4.21	0.15	4.50	0.00	0.00	4.06
Ohio	0.24	11.71	2.89	14.84	0.00	0.00	13.36
Ontario	1.86	39.39	31.97	73.22	0.00	0.00	
Pennsylvania	0.02	1.02	0.01	1.04	0.00	0.00	0.94
Quebec	0.00	0.00	9.22	9.22	0.00	0.00	8.30
Wisconsin	0.00	0.00	42.70	42.70	0.00	0.00	29.89

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	0.00	0.00	0.00	0.00	0.00	0.00	
Indiana	0.00	4.07	14.61	18.68	0.00	0.00	16.82
Michigan					0.00	0.00	
Minnesota	0.00	0.13	0.00	0.13	0.00	0.00	0.12
New York	0.14	4.21	0.15	4.50	0.00	0.00	4.06
Ohio	0.13	8.40	1.21	9.74	0.00	0.00	8.78
Ontario					0.00	0.00	
Pennsylvania	0.00	0.89	0.00	0.89	0.00	0.00	0.80
Quebec					0.00	0.00	
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT- Irrigation

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.06	0.94	0.60	1.59	0.00	0.00	1.04
Lake Michigan	1.79	80.19	221.25	303.23	0.00	0.00	264.43
Lake Huron	2.88	25.09	18.80	46.77	0.00	0.00	23.28
Lake Erie	1.42	38.41	32.16	71.99	0.00	0.00	36.14
Lake Ontario	1.08	12.97	7.27	21.32	0.00	0.00	3.24
St. Lawrence River	0.01	2.09	9.52	11.62	0.00	0.00	8.34

Water-Use by Basin - Principal Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.00	0.13	0.00	0.13	0.00	0.00	0.12
Lake Michigan	0.00	3.88	14.16	18.04	0.00	0.00	16.24
Lake Huron					0.00	0.00	
Lake Erie	0.27	10.20	1.66	12.13	0.00	0.00	10.94
Lake Ontario	0.00	3.44	0.15	3.59	0.00	0.00	3.24
St. Lawrence River	0.00	0.05	0.00	0.05	0.00	0.00	0.04

WATER-USE CATEGORY REPORT- Livestock

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois					0.00	0.00	
Indiana	0.00	1.36	4.33	5.69	0.00	0.00	4.55
Michigan					0.00	0.00	
Minnesota	0.67	0.00	0.00	0.67	0.00	0.00	0.60
New York	7.24	0.00	13.33	20.57	0.00	0.00	18.51
Ohio	0.00	1.98	10.40	12.38	0.00	0.00	9.90
Ontario	2.95	8.67	25.47	37.09	0.00	0.00	
Pennsylvania	0.00	2.20	1.20	3.40	0.00	0.00	2.72
Quebec	0.00	0.00	19.10	19.10	0.00	0.00	15.28
Wisconsin	0.00	0.00	40.60	40.60	0.00	0.00	36.54

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	0.00	0.00	0.00	0.00	0.00	0.00	
Indiana	0.00	1.36	1.35	2.71	0.00	0.00	2.17
Michigan					0.00	0.00	
Minnesota	0.62	0.00	0.00	0.62	0.00	0.00	0.55
New York					0.00	0.00	6.53
Ohio	0.00	0.22	0.38	0.60	0.00	0.00	0.48
Ontario					0.00	0.00	
Pennsylvania	0.00	2.10	1.20	3.30	0.00	0.00	2.64
Quebec					0.00	0.00	
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT- Livestock

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.67	0.14	8.30	9.11	0.00	0.00	8.07
Lake Michigan	0.00	1.36	35.70	37.06	0.00	0.00	32.88
Lake Huron	2.93	3.07	6.41	12.41	0.00	0.00	
Lake Erie	1.56	5.06	27.60	34.23	0.00	0.00	17.23
Lake Ontario	3.93	0.94	11.72	16.59	0.00	0.00	10.07
St. Lawrence River	1.77	3.63	24.69	30.09	0.00	0.00	19.85

Water-Use by Basin - Principal Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.62	0.00	0.00	0.62	0.00	0.00	0.55
Lake Michigan	0.00	1.36	1.35	2.71	0.00	0.00	2.17
Lake Huron					0.00	0.00	
Lake Erie	0.00	2.32	1.58	3.90	0.00	0.00	3.12
Lake Ontario					0.00	0.00	6.53
St. Lawrence River					0.00	0.00	

WATER-USE CATEGORY REPORT- Industrial

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	18.82	0.00	0.00	18.82	0.00	0.02	1.13
Indiana	1728.97	9.77	13.64	1752.38	0.00	0.00	105.14
Michigan	426.60	113.06	89.10	628.76	0.00	0.00	62.90
Minnesota	286.26	59.59	0.02	345.87	0.00	0.00	34.59
New York	210.25	44.42	11.99	266.66	0.00	0.00	66.69
Ohio	53.59	103.26	35.54	192.39	0.00	0.00	19.24
Ontario	900.71	0.00	22.51	923.22	0.00	0.00	58.16
Pennsylvania	5.59	2.20	0.04	7.84	0.00	0.00	
Quebec	0.00	125.48	0.00	125.48	0.00	0.00	12.55
Wisconsin	187.00	0.00	0.00	187.00	0.00	0.00	19.07

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	18.82	0.00	0.00	18.82	0.00	0.00	1.13
Indiana	1728.94	9.76	12.98	1751.68	0.00	0.00	105.10
Michigan					0.00	0.00	
Minnesota	286.25	59.26	0.00	345.51	0.00	0.00	34.56
New York	210.25	44.42	11.99	266.66	0.00	0.00	66.69
Ohio	53.59	102.91	34.95	191.45	0.00	0.00	19.15
Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennsylvania	5.59	0.00	0.00	5.59	0.00	0.00	0.11
Quebec	0.00	124.95	0.00	124.95	0.00	0.00	12.50
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT- Industrial

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Basin - All Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	461.11	59.59	0.49	521.19	0.00	0.00	46.12
Lake Michigan	2042.05	93.16	82.06	2217.27	0.00	0.02	151.64
Lake Huron	206.96	13.18	4.76	224.90	0.00	0.00	15.46
Lake Erie	698.31	123.05	61.05	882.42	0.00	0.00	107.41
Lake Ontario	244.33	36.78	21.23	302.35	0.00	0.00	32.65
St. Lawrence River	165.02	132.02	3.24	300.28	0.00	0.00	26.19

Water-Use by Basin - Principal Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	286.25	59.26	0.00	345.51	0.00	0.00	34.56
Lake Michigan	1747.76	4.90	8.50	1761.16	0.00	0.00	105.67
Lake Huron	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Erie	238.01	108.87	39.46	386.34	0.00	0.00	64.82
Lake Ontario	26.16	36.78	9.77	72.71	0.00	0.00	18.18
St. Lawrence River	5.26	131.49	2.19	138.94	0.00	0.00	16.01

WATER-USE CATEGORY REPORT - Fossil Fuel Power

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	768.25	0.00	0.00	768.25	0.00	0.00	15.37
Indiana	766.10	0.00	0.27	766.37	0.00	0.00	15.33
Michigan	6034.27	476.67	4.11	6515.05	0.00	0.00	78.16
Minnesota	0.00	182.36	0.12	182.48	0.00	0.00	3.65
New York	1512.27	359.38	0.00	1871.65	0.00	0.00	37.43
Ohio	1467.14	676.21	0.05	2143.40	0.00	0.00	21.43
Ontario	1467.67	0.00	0.00	1467.67	0.00	0.00	0.00
Pennsylvania	0.00	0.00	0.03	0.03	0.00	0.00	0.00
Quebec	39.10	7.93	0.00	47.02	0.00	0.00	4.70
Wisconsin	1763.00	0.00	0.00	1763.00	0.00	0.00	8.81

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	768.25	0.00	0.00	768.25	0.00	0.00	15.37
Indiana	766.10	0.00	0.27	766.37	0.00	0.00	15.33
Michigan					0.00	0.00	
Minnesota	0.00	182.27	0.10	182.37	0.00	0.00	3.65
New York	1512.27	359.38	0.00	1871.65	0.00	0.00	36.46
Ohio	1467.13	676.21	0.00	2143.34	0.00	0.00	21.43
Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennsylvania					0.00	0.00	
Quebec	39.10	7.93	0.00	47.02	0.00	0.00	4.70
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT - Fossil Fuel Power

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Basin - All Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	603.88	182.36	0.12	786.36	0.00	0.00	7.08
Lake Michigan	4155.36	316.13	2.81	4474.30	0.00	0.00	53.88
Lake Huron	722.43	5.26	1.22	728.91	0.00	0.00	8.74
Lake Erie	7147.98	831.49	0.43	7979.90	0.00	0.00	94.49
Lake Ontario	1148.94	359.38	0.00	1508.32	0.00	0.00	15.99
St. Lawrence River	39.21	7.93	0.00	47.13	0.00	0.00	4.70

Water-Use by Basin - Principal Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	0.00	182.27	0.10	182.37	0.00	0.00	3.65
Lake Michigan	1534.35	0.00	0.00	1534.35	0.00	0.00	30.69
Lake Huron	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Erie	2539.30	676.21	0.27	3215.78	0.00	0.00	41.91
Lake Ontario	439.99	359.38	0.00	799.37	0.00	0.00	15.99
St. Lawrence River	39.21	7.93	0.00	47.13	0.00	0.00	4.70

WATER-USE CATEGORY REPORT - Nuclear Power

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	31.70	0.00	0.00	31.70	0.00	0.00	0.32
Indiana	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Michigan	2369.95	0.00	0.00	2369.95	0.00	0.00	45.03
Minnesota	0.00	0.00	0.00	0.00	0.00	0.00	0.00
New York	1380.38	0.00	0.00	1380.38	0.00	0.00	69.02
Ohio	150.15	0.00	0.00	150.15	0.00	0.00	15.02
Ontario	10125.39	0.00	0.00	10125.39	0.00	0.00	91.13
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wisconsin	1195.00	0.00	0.00	1195.00	0.00	0.00	5.97

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	31.70	0.00	0.00	31.70	0.00	0.00	0.32
Indiana	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Michigan					0.00	0.00	
Minnesota	0.00	0.00	0.00	0.00	0.00	0.00	0.00
New York	1380.38	0.00	0.00	1380.38	0.00	0.00	69.02
Ohio	150.15	0.00	0.00	150.15	0.00	0.00	15.02
Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT- Nuclear Power

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Basin - All Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Michigan	3543.90	0.00	0.00	3543.90	0.00	0.00	50.32
Lake Huron	4697.20	0.00	0.00	4697.20	0.00	0.00	42.28
Lake Erie	202.90	0.00	0.00	202.90	0.00	0.00	16.02
Lake Ontario	6808.57	0.00	0.00	6808.57	0.00	0.00	117.87
St. Lawrence River	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Water-Use by Basin - Principal Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Michigan	31.70	0.00	0.00	31.70	0.00	0.00	0.32
Lake Huron	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Erie	150.15	0.00	0.00	150.15	0.00	0.00	15.02
Lake Ontario	1380.38	0.00	0.00	1380.38	0.00	0.00	69.02
St. Lawrence River	0.00	0.00	0.00	0.00	0.00	0.00	0.00

WATER-USE CATEGORY REPORT - Hydroelectric Power

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Indiana	0.00	2082.75	0.00	2082.75	0.00	0.00	0.00
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	0.00	3609.20	0.00	3609.20	0.00	0.00	0.00
New York	130387.00	179600.00	0.00	309987.00	0.00	0.00	0.00
Ohio	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ontario	130010.47	59531.37	0.00	189541.84	0.00	-4007.75	0.00
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	170946.25	132949.60	0.00	303895.85	0.00	0.00	0.00
Wisconsin	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Indiana	0.00	2082.75	0.00	2082.75	0.00	0.00	0.00
Michigan					0.00	0.00	
Minnesota	0.00	3609.20	0.00	3609.20	0.00	0.00	0.00
New York	130387.00	0.00	0.00	130387.00	0.00	0.00	0.00
Ohio	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	170946.25	132949.60	0.00	303895.85	0.00	0.00	0.00
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT- Hydroelectric Power

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.00	41765.51	0.00	41765.51	0.00	-4007.75	0.00
Lake Michigan	0.00	2082.75	0.00	2082.75	0.00	0.00	0.00
Lake Huron	20000.41	13607.66	0.00	33608.07	0.00	0.00	0.00
Lake Erie	47372.00	0.00	0.00	47372.00	0.00	0.00	0.00
Lake Ontario	33861.04	88589.26	0.00	122450.31	0.00	0.00	0.00
St. Lawrence River	330110.28	231727.72	0.00	561838.00	0.00	0.00	0.00

Water-Use by Basin - Principal Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.00	3609.20	0.00	3609.20	0.00	0.00	0.00
Lake Michigan	0.00	2082.75	0.00	2082.75	0.00	0.00	0.00
Lake Huron	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Erie	47372.00	0.00	0.00	47372.00	0.00	0.00	0.00
Lake Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00
St. Lawrence River	253961.25	132949.60	0.00	386910.85	0.00	0.00	0.00

WATER-USE CATEGORY REPORT- Other

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	0.00	0.00	0.00	0.00	0.00	218.10	0.00
Indiana	0.00	0.03	0.13	0.16	0.00	0.00	0.02
Michigan					0.00	0.00	
Minnesota	0.00	0.00	0.10	0.10	0.00	0.00	0.00
New York	0.00	42.31	0.26	42.57	0.00	32.00	33.06
Ohio	0.68	9.11	0.50	10.29	0.00	-10.10	0.00
Ontario	0.00	199.61	0.00	199.61	61.97	0.00	0.00
Pennsylvania					0.00	0.00	
Quebec					0.00	0.00	
Wisconsin					0.00	-0.64	

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	0.00	0.00	0.00	0.00	0.00	218.10	0.00
Indiana	0.00	0.03	0.06	0.09	0.00	0.00	0.01
Michigan					0.00	0.00	
Minnesota	0.00	0.00	0.00	0.00	0.00	0.00	0.00
New York	0.00	42.31	0.26	42.57	0.00	32.00	33.06
Ohio	0.64	9.00	0.36	10.00	0.00	-10.10	0.00
Ontario	0.00	199.61	0.00	199.61	61.97	0.00	0.00
Pennsylvania					0.00	0.00	
Quebec					0.00	0.00	
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT- Other

Units: Mgal(US)/d

Year Of Data: 2004

Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.00	0.00	0.10	0.10	0.00	0.00	0.00
Lake Michigan	0.00	0.03	0.13	0.16	0.00	217.46	0.02
Lake Huron	0.00	47.97	0.00	47.97	47.97	0.00	0.00
Lake Erie	0.68	9.11	0.50	10.29	5816.39	-10.10	0.00
Lake Ontario	0.00	170.78	0.26	171.04	-5802.39	32.00	32.67
St. Lawrence River	0.00	23.16	0.00	23.16	0.00	0.00	0.39

Water-Use by Basin - Principal Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Michigan	0.00	0.03	0.06	0.09	0.00	218.10	0.01
Lake Huron	0.00	47.97	0.00	47.97	47.97	0.00	0.00
Lake Erie	0.64	9.00	0.36	10.00	5816.39	-10.10	0.00
Lake Ontario	0.00	170.78	0.26	171.04	-5802.39	32.00	32.67
St. Lawrence River	0.00	23.16	0.00	23.16	0.00	0.00	0.39