

ANNUAL REPORT
of the
*GREAT LAKES REGIONAL WATER USE
DATABASE REPOSITORY*
REPRESENTING 2003 WATER USE DATA IN LITERS

Prepared by

The Great Lakes Commission

October 5, 2006

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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 2003.

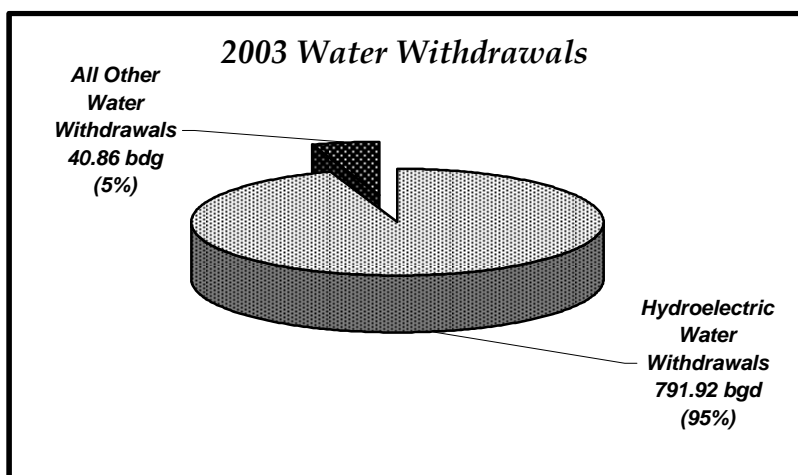


Figure 1

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 2003 were approximately 833 billion gallons per day, or about 3,152 billion liters per day.

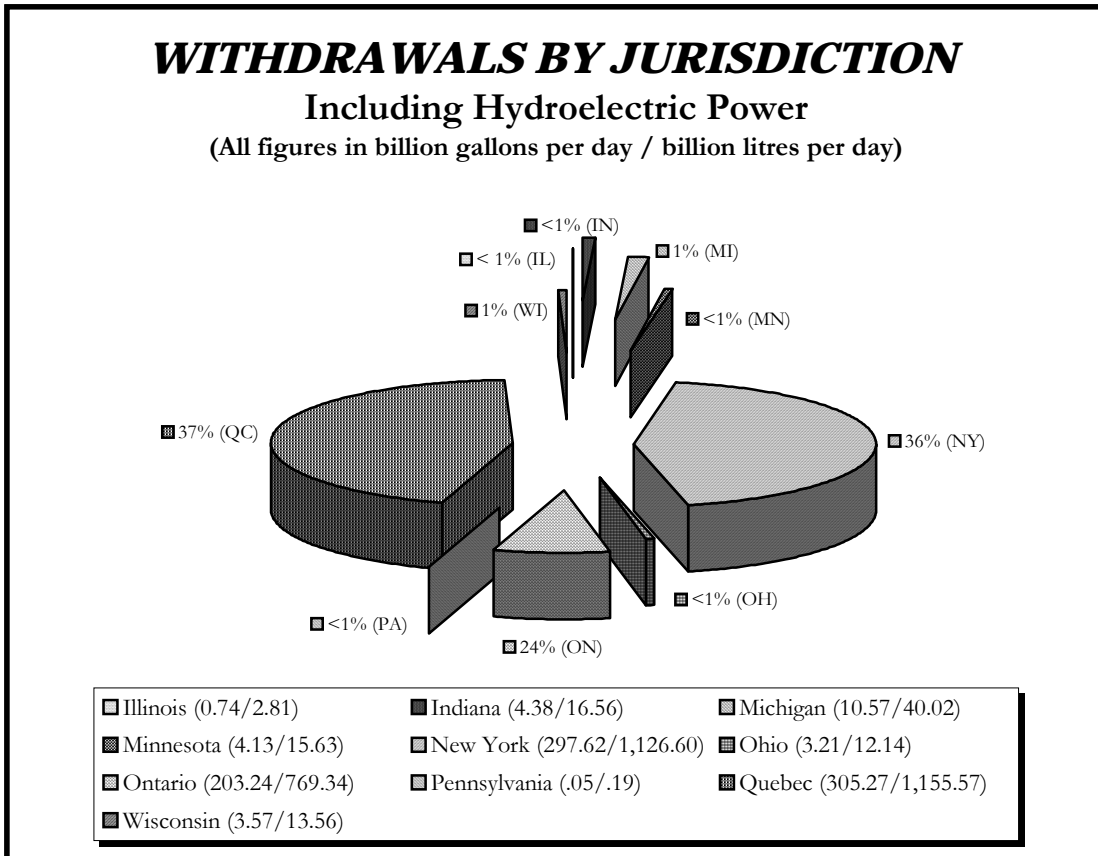


Figure 2

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 155 billion liters per day.

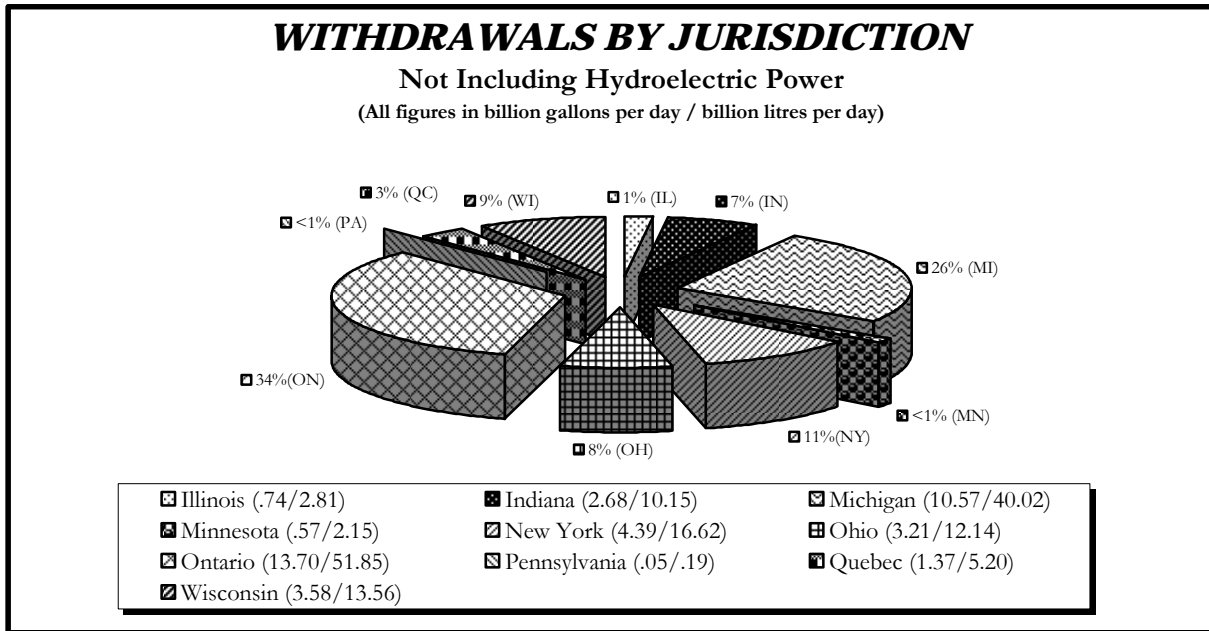


Figure 3

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 2003 was calculated to be 1.91 bgd (7.24 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: BL/d
Year Of Data: 2003

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	2.81	0.00	0.00	2.81	0.00	4.67	0.06
Indiana	9.41	6.66	0.49	16.56	0.00	-0.01	0.68
Michigan	35.82	2.17	2.02	40.02	0.00	0.00	2.25
Minnesota	1.33	14.28	0.02	15.63	0.00	0.00	0.17
New York	443.15	682.95	0.50	1126.60	0.00	0.15	1.21
Ohio	8.17	3.41	0.56	12.14	0.00	-0.05	0.65
Ontario	541.33	226.96	1.06	769.34	0.23	-15.17	1.06
Pennsylvania	0.14	0.02	0.02	0.19	0.00	0.00	0.03
Quebec	649.53	505.66	0.38	1155.57	0.00	0.00	0.60
Wisconsin	12.76	0.09	0.70	13.56	0.00	0.00	0.53
Total:	1704.45	1442.20	5.76	3152.42	0.23	-10.41	7.24

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	2.81	0.00	0.00	2.81	0.00	4.67	0.06
Indiana	9.41	6.66	0.37	16.44	0.00	0.00	0.65
Michigan					0.00	0.00	
Minnesota	1.33	14.28	0.02	15.62	0.00	0.00	0.17
New York	441.57	2.04	0.04	443.65	0.00	0.15	0.84
Ohio	8.17	3.39	0.27	11.84	0.00	-0.05	0.56
Ontario	1.87	1.42	0.33	3.62	0.23	0.00	0.43
Pennsylvania	0.14	0.02	0.01	0.17	0.00	0.00	0.03
Quebec	649.53	505.64	0.18	1155.36	0.00	0.00	0.50
Wisconsin					0.00	0.00	
Total:	1114.83	533.45	1.22	1649.50	0.23	4.77	3.23

SUMMARY REPORT - GREAT LAKES BASIN

Units: BL/d
Year Of Data: 2003

Water-Use by Basin - All Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	4.33	158.77	0.12	163.22	0.00	-15.17	0.30
Lake Michigan	37.18	8.49	2.62	48.29	0.00	4.66	2.46
Lake Huron	98.26	51.98	0.36	150.60	0.18	0.00	0.54
Lake Erie	187.15	4.18	1.42	192.76	22.02	-0.05	1.88
Lake Ontario	161.43	338.73	0.71	500.87	-21.96	0.15	1.33
St. Lawrence River	1216.09	880.05	0.53	2096.68	0.00	0.00	0.74
Total:	1704.45	1442.20	5.76	3152.42	0.23	-10.41	7.24

Water-Use by Basin - Principal Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	1.44	14.33	0.03	15.80	0.00	0.00	0.20
Lake Michigan	12.22	6.51	0.32	19.05	0.00	4.67	0.68
Lake Huron	0.16	0.27	0.06	0.49	0.18	0.00	0.05
Lake Erie	165.42	3.67	0.54	169.63	22.02	-0.05	0.91
Lake Ontario	8.39	2.69	0.07	11.15	-21.96	0.15	0.84
St. Lawrence River	927.20	505.98	0.20	1433.38	0.00	0.00	0.55
Total:	1114.83	533.45	1.22	1649.50	0.23	4.77	3.23

SUMMARY REPORT - GREAT LAKES BASIN

Units: BL/d
Year Of Data: 2003

Water Use by Category - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	12.33	4.37	2.13	18.83	0.00	3.93	2.34
Domestic Supply	0.15	0.17	1.40	1.73	0.00	0.00	0.21
Irrigation	0.03	0.62	1.10	1.75	0.00	0.00	1.29
Livestock	0.04	0.05	0.44	0.53	0.00	0.00	0.34
Industrial	14.41	1.71	0.67	16.79	0.00	0.00	1.43
Fossil Fuel Power	51.61	5.95	0.02	57.59	0.00	0.00	0.68
Nuclear Power	56.51	0.00	0.00	56.51	0.00	0.00	0.82
Hydroelectric Power	1569.36	1428.38	0.00	2997.74	0.00	-15.17	0.00
Other	0.00	0.95	0.00	0.95	0.23	0.83	0.12
Total:	1704.45	1442.20	5.76	3152.42	0.23	-10.41	7.24

Water Use by Category - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	6.38	3.15	0.68	10.21	0.00	3.93	1.31
Domestic Supply	0.02	0.17	0.21	0.39	0.00	0.00	0.04
Irrigation	0.00	0.09	0.07	0.16	0.00	0.00	0.14
Livestock	0.00	0.01	0.01	0.03	0.00	0.00	0.05
Industrial	8.70	1.25	0.25	10.20	0.00	0.00	0.90
Fossil Fuel Power	16.88	4.67	0.00	21.54	0.00	0.00	0.36
Nuclear Power	5.63	0.00	0.00	5.63	0.00	0.00	0.30
Hydroelectric Power	1077.22	523.17	0.00	1600.39	0.00	0.00	0.00
Other	0.00	0.94	0.00	0.95	0.23	0.83	0.12
Total:	1114.83	533.45	1.22	1649.50	0.23	4.77	3.23

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 2003 totaled 1,974.24 mgd, was comparable to usage in 2002.

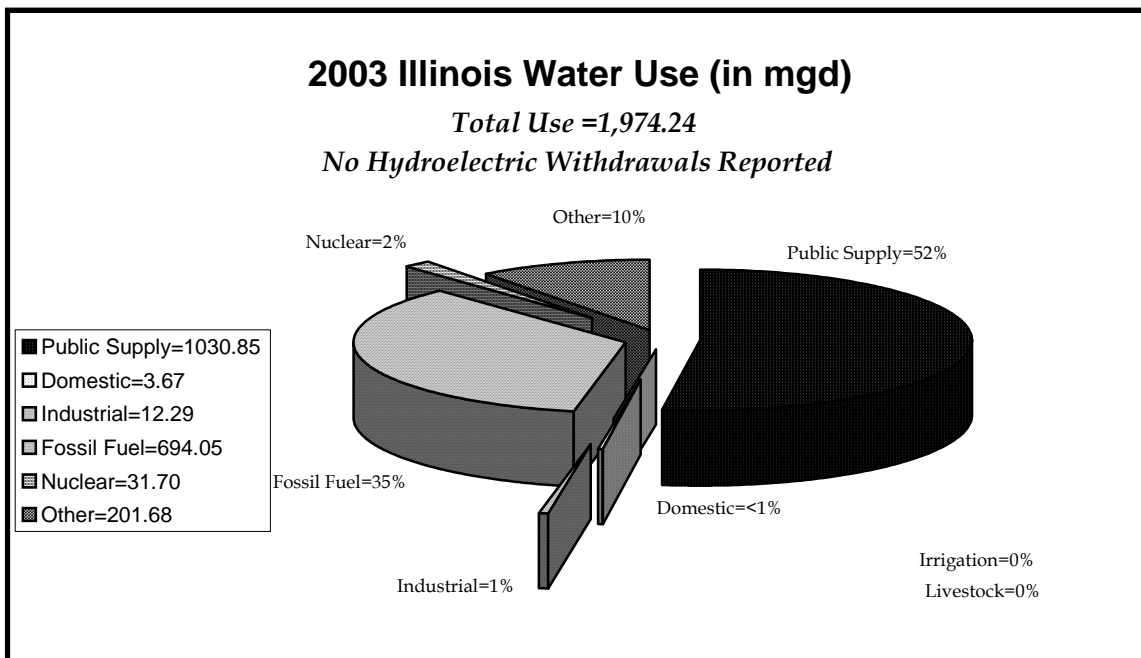


Figure 5

Consumptive Use: Total consumptive use was calculated to be 15.31 mgd, with fossil fuel consuming the most at 13.88 mgd or 91%.

Interbasin Diversions: Total diversions from the Lake Michigan basin in 2003 were 1,232.58 mgd, a decrease of about 1% from the 2002 figure. Public water supply accounted for about 84% 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: ML/d
and Consumptive Uses Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Michigan							
	Public Supply	0.00	3902.20	0.00	0.00	3902.20	0.00
	Domestic Supply	13.90	0.10	1.40	13.90	0.10	1.40
	Irrigation		0.00		0.00	0.00	0.00
	Livestock		0.00		0.00	0.00	0.00
	Industrial	46.50	0.07	2.80	46.50	0.07	2.80
	Fossil Fuel Power	2627.25	0.00	52.54	2627.25	0.00	52.54
	Nuclear Power	120.00	0.00	1.21	120.00	0.00	1.21
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.00	763.44	0.00	0.00	763.44	0.00
	Total:	2807.64	4665.81	57.95	2807.64	4665.81	57.95
Grand Total:		2807.64	4665.81	57.95	2807.64	4665.81	57.95

JURISDICTION REPORT - Illinois

Withdrawals by Source

Units: ML/d
Year Of Data: 2003

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	13.87	0.00	0.02	13.87	0.00	0.02
	Irrigation				0.00	0.00	0.00
	Livestock				0.00	0.00	0.00
	Industrial	46.50	0.00	0.00	46.50	0.00	0.00
	Fossil Fuel Power	2627.25	0.00	0.00	2627.25	0.00	0.00
	Nuclear Power	120.00	0.00	0.00	120.00	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:	2807.62	0.00	0.02	2807.62	0.00	0.02
Grand Total:		2807.62	0.00	0.02	2807.62	0.00	0.02

JURISDICTION REPORT - Illinois

Jurisdiction Totals

Units: ML/d
Year Of Data: 2003

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	3902.20	0.00
Domestic Supply	13.87	0.00	0.02	13.90	0.00	0.10	1.40
Irrigation					0.00	0.00	
Livestock					0.00	0.00	
Industrial	46.50	0.00	0.00	46.50	0.00	0.07	2.80
Fossil Fuel Power	2627.25	0.00	0.00	2627.25	0.00	0.00	52.54
Nuclear Power	120.00	0.00	0.00	120.00	0.00	0.00	1.21
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	763.44	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	3902.20	0.00
Domestic Supply	13.87	0.00	0.02	13.90	0.00	0.10	1.40
Irrigation	0.00	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	0.00
Industrial	46.50	0.00	0.00	46.50	0.00	0.07	2.80
Fossil Fuel Power	2627.25	0.00	0.00	2627.25	0.00	0.00	52.54
Nuclear Power	120.00	0.00	0.00	120.00	0.00	0.00	1.21
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	763.44	0.00

Indiana

Data Sources: The Indiana Department of Natural Resources—Division of Water compiled the 2003 data for the regional water use database for the Lake Erie and Lake Michigan basins. Please contact Ralph Spaeth at 317/234-1101 or rspaeth@dnr.in.gov with questions regarding Indiana’s data.

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.

Withdrawals: In 2003, total use was 2,681.08 mgd, down from the 2002 figure of 2,704.82 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 1,694.56 mgd. The primary use of Lake Michigan water was industrial, at 1,728.31 mgd, or 66%. The primary use of Lake Erie water was public supply, at 42.67 mgd, or more than 71%.

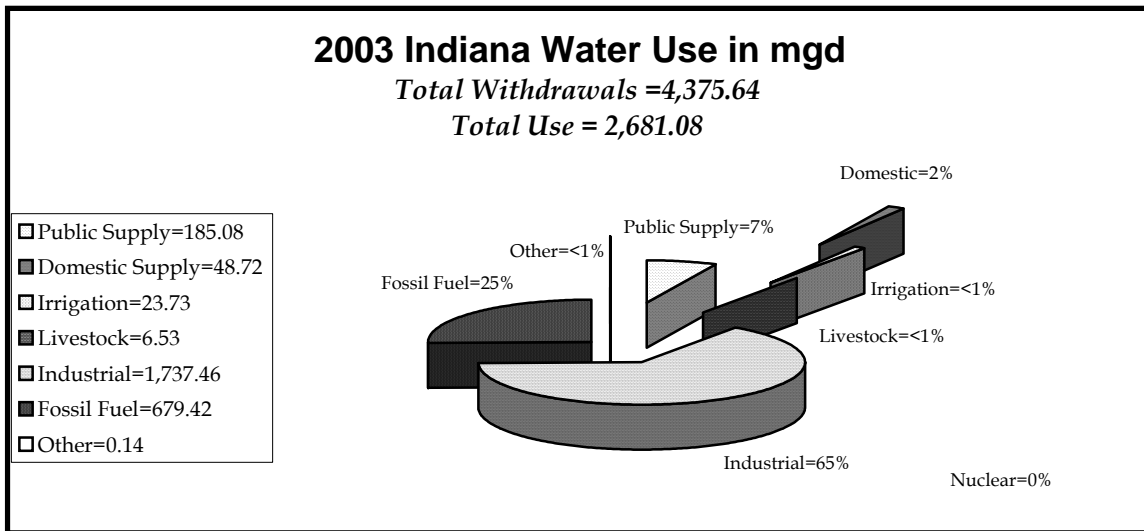


Figure 6

Consumptive Use: The total consumptive use of water in Indiana’s portion of the Great Lakes basin was 179.49 mgd, compared to 190.29 mgd in 2002. In the Lake Michigan basin, industrial was the largest consumptive use, at 61% (103.71 mgd of a total of 170.22 mgd) and in the Lake Erie basin public supply was the largest consumptive use, at 69% (6.40 mgd of a total of 9.27 mgd).

Interbasin Diversions: A diversion by the city of Valparaiso withdrew 1.72 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, 55% partially measured, and 41% calculated or estimated; the level of aggregation was 99% site-specific and 1% aggregated.

JURISDICTION REPORT- Indiana

Withdrawals, Diversions Units: ML/d
and Consumptive Uses Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Michigan							
	Public Supply	539.08	-6.51	80.86	537.91	0.00	80.67
	Domestic Supply	161.22	0.00	24.19	77.75	0.00	11.66
	Irrigation	87.10	0.00	78.40	83.77	0.00	75.37
	Livestock	21.16	0.00	16.88	13.36	0.00	10.67
	Industrial	6542.37	0.00	392.59	6540.47	0.00	392.43
	Fossil Fuel Power	2570.86	0.00	51.41	2570.86	0.00	51.41
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	6414.61	0.00	0.00	6414.61	0.00	0.00
	Other	0.53	0.00	0.04	0.11	0.00	0.00
	Total:	16336.93	-6.51	644.35	16238.85	0.00	622.21
Lake Erie							
	Public Supply	161.52	0.00	24.23	160.99	0.00	24.11
	Domestic Supply	23.20	0.00	3.48	0.83	0.00	0.11
	Irrigation	2.73	0.00	2.42	1.93	0.00	1.70
	Livestock	3.56	0.00	2.84	0.00	0.00	0.00
	Industrial	34.64	0.00	2.08	33.88	0.00	2.04
	Fossil Fuel Power	1.02	0.00	0.04	1.02	0.00	0.04
	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:	226.67	0.00	35.09	198.66	0.00	28.01
Grand Total:		16563.60	-6.51	679.44	16437.51	0.00	650.22

JURISDICTION REPORT- Indiana

Withdrawals by Source

Units: ML/d

Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Michigan							
	Public Supply	366.73	0.00	172.35	366.73	0.00	171.18
	Domestic Supply	0.00	56.21	105.01	0.00	56.21	21.54
	Irrigation	0.00	20.14	66.96	0.00	18.85	64.92
	Livestock	0.00	4.43	16.73	0.00	4.43	8.93
	Industrial	6474.15	16.73	51.48	6474.00	16.73	49.74
	Fossil Fuel Power	2570.86	0.00	0.00	2570.86	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	6414.61	0.00	0.00	6414.61	0.00
	Other	0.00	0.08	0.45	0.00	0.00	0.11
	Total:	9411.75	6512.20	412.99	9411.59	6510.83	316.42
Lake Erie							
	Public Supply	0.00	125.79	35.73	0.00	125.79	35.20
	Domestic Supply	0.00	0.00	23.20	0.00	0.00	0.83
	Irrigation	0.00	0.76	1.97	0.00	0.49	1.44
	Livestock	0.00	0.00	3.56	0.00	0.00	0.00
	Industrial	0.00	19.49	15.14	0.00	19.42	14.46
	Fossil Fuel Power	0.00	0.00	1.02	0.00	0.00	1.02
	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	146.04	80.63	0.00	145.70	52.96
Grand Total:		9411.75	6658.24	493.62	9411.59	6656.53	369.38

JURISDICTION REPORT - Indiana

Jurisdiction Totals Units: ML/d
Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	366.73	125.79	208.08	700.60	0.00	-6.51	105.08
Domestic Supply	0.00	56.21	128.21	184.43	0.00	0.00	27.67
Irrigation	0.00	20.90	68.93	89.83	0.00	0.00	80.82
Livestock	0.00	4.43	20.29	24.72	0.00	0.00	19.72
Industrial	6474.15	36.23	66.62	6577.00	0.00	0.00	394.67
Fossil Fuel Power	2570.86	0.00	1.02	2571.88	0.00	0.00	51.44
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	6414.61	0.00	6414.61	0.00	0.00	0.00
Other	0.00	0.08	0.45	0.53	0.00	0.00	0.04

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	366.73	125.79	206.38	698.90	0.00	0.00	104.78
Domestic Supply	0.00	56.21	22.37	78.59	0.00	0.00	11.77
Irrigation	0.00	19.34	66.36	85.70	0.00	0.00	77.07
Livestock	0.00	4.43	8.93	13.36	0.00	0.00	10.67
Industrial	6474.00	36.15	64.20	6574.35	0.00	0.00	394.48
Fossil Fuel Power	2570.86	0.00	1.02	2571.88	0.00	0.00	51.44
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	6414.61	0.00	6414.61	0.00	0.00	0.00
Other	0.00	0.00	0.11	0.11	0.00	0.00	0.00

Michigan

Data Sources: The Michigan Department of Environmental Quality submitted 2003 water use data. 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 10,572.23 mgd, a decrease of between 3% and 4% from 2002. Of the four basins, the state of Michigan withdraws the most--about 47%--from Lake Erie (5,016.53 mgd) and the least--between 2% and 3%--from Lake Superior (275.20 mgd). Thermoelectric power-fossil fuel, at 59%, was the largest withdrawal category for the state of Michigan.

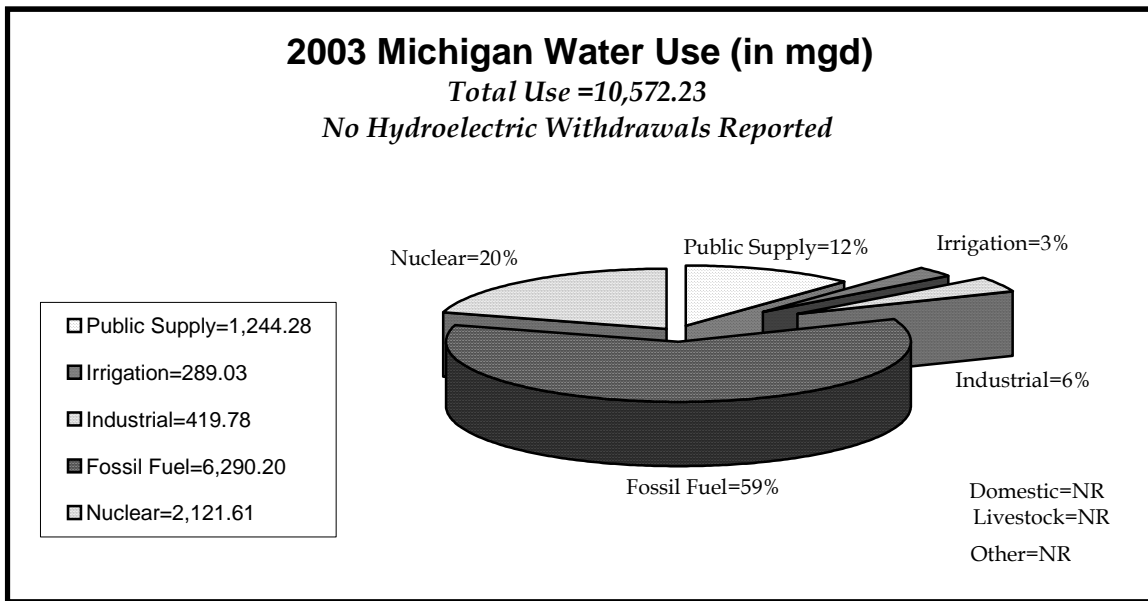


Figure 7

Consumptive Use: Consumptive uses in the Michigan portion of the Great Lakes basin were calculated to be approximately 594.18 mgd; irrigation was the largest single consumptive use (because the coefficient for irrigation is 90%) at 260.14 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 Units: ML/d
and Consumptive Uses Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Superior							
	Public Supply	48.68	0.00	6.06		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	2.20	0.00	1.97		0.00	
	Livestock		0.00			0.00	
	Industrial	46.64	0.00	4.66		0.00	
	Fossil Fuel Power	944.23	0.00	11.32		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:	1041.75	0.00	24.00		0.00	
Lake Michigan							
	Public Supply	1186.84	0.00	148.39		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	893.28	0.00	803.98		0.00	
	Livestock		0.00			0.00	
	Industrial	1014.23	0.00	101.45		0.00	
	Fossil Fuel Power	4831.25	0.00	57.99		0.00	
	Nuclear Power	7853.75	0.00	149.22		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		0.00			0.00	
	Total:	15779.34	0.00	1261.03		0.00	
Lake Huron							
	Public Supply	1010.97	0.00	126.39		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	110.61	0.00	99.56		0.00	
	Livestock		0.00			0.00	
	Industrial	150.77	0.00	15.07		0.00	
	Fossil Fuel Power	2937.18	0.00	35.24		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:	4209.53	0.00	276.26		0.00	

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Erie							
	Public Supply	2463.62	0.00	307.94		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	88.01	0.00	79.23		0.00	
	Livestock		0.00			0.00	
	Industrial	1162.24	0.00	116.21		0.00	
	Fossil Fuel Power	15098.34	0.00	181.17		0.00	
	Nuclear Power	177.42	0.00	3.37		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		0.00			0.00	
	Total:	18989.63	0.00	687.92		0.00	
Grand Total:		40020.25	0.00	2249.22		0.00	

JURISDICTION REPORT - Michigan

Withdrawals by Source

Units: ML/d
Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Superior							
	Public Supply	12.83	0.00	35.85			
	Domestic Supply						
	Irrigation	0.04	1.10	1.06			
	Livestock						
	Industrial	44.82	0.00	1.82			
	Fossil Fuel Power	944.23	0.00	0.00			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	Total:	1001.92	1.10	38.72			
Lake Michigan							
	Public Supply	542.34	2.01	642.50			
	Domestic Supply						
	Irrigation	8.06	280.31	604.91			
	Livestock						
	Industrial	396.90	334.14	283.19			
	Fossil Fuel Power	3557.57	1263.38	10.30			
	Nuclear Power	7853.75	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	Total:	12358.61	1879.84	1540.89			
Lake Huron							
	Public Supply	883.02	2.61	125.33			
	Domestic Supply						
	Irrigation	12.42	42.13	56.06			
	Livestock						
	Industrial	84.83	59.58	6.36			
	Fossil Fuel Power	2910.22	22.37	4.58			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	Total:	3890.50	126.70	192.34			

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Erie							
	Public Supply	2230.97	61.55	171.10			
	Domestic Supply						
	Irrigation	2.01	49.10	36.91			
	Livestock						
	Industrial	1062.49	55.76	43.99			
	Fossil Fuel Power	15098.04	0.00	0.30			
	Nuclear Power	177.42	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	Total:	18570.93	166.41	252.30			
Grand Total:		35821.96	2174.04	2024.25			

JURISDICTION REPORT - Michigan

Jurisdiction Totals

Units: ML/d

Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	3669.16	66.17	974.78	4710.11	0.00	0.00	588.78
Domestic Supply					0.00	0.00	
Irrigation	22.52	372.64	698.94	1094.10	0.00	0.00	984.74
Livestock					0.00	0.00	
Industrial	1589.04	449.48	335.35	2373.87	0.00	0.00	237.38
Fossil Fuel Power	22510.07	1285.75	15.18	23811.00	0.00	0.00	285.72
Nuclear Power	8031.17	0.00	0.00	8031.17	0.00	0.00	152.59
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 4,129.54 mgd, showing a decrease of 18% from 2002. Hydroelectric withdrawal which, at 3,562.06 mgd, accounted for over 86% of Minnesota's total water withdrawals in 2003, showed a decrease of 20% from 2002. Of the remainder (567.48 mgd), industrial use accounted for over half.

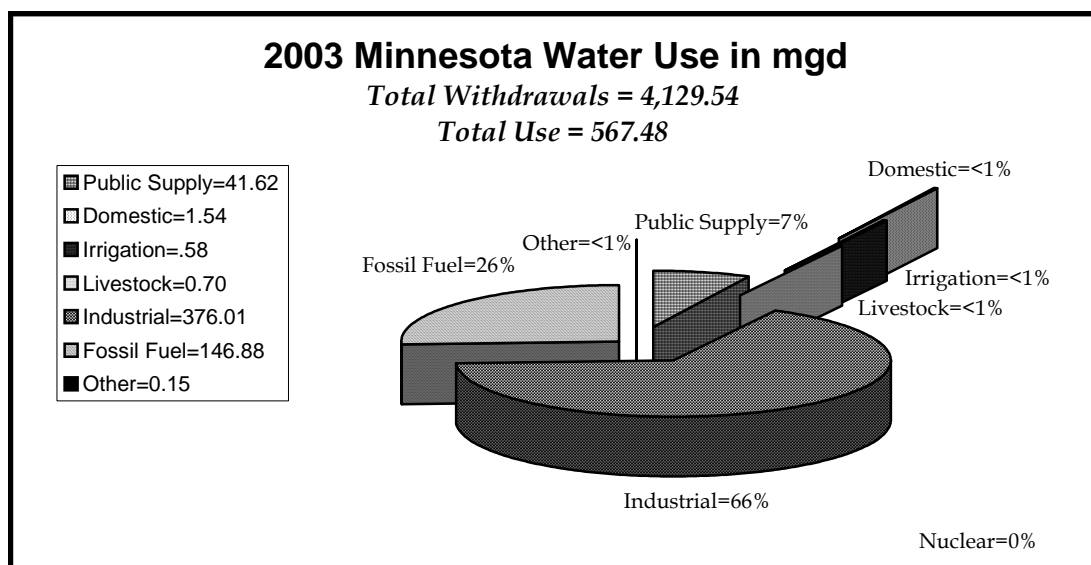


Figure 8

Consumptive Use: The largest consumptive use was calculated to be industrial, at 376.01 mgd, or 81% of total consumption. Public supply was the second largest consumptive use at 41.62 mgd, or 9% 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: ML/d
Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Superior							
	Public Supply	157.55	0.00	15.79	155.09	0.00	12.91
	Domestic Supply	5.83	0.00	0.57	4.85	0.00	0.49
	Irrigation	2.20	0.00	2.01	0.38	0.00	0.34
	Livestock	2.65	0.00	2.38	2.31	0.00	2.08
	Industrial	1423.35	0.00	142.33	1421.57	0.00	142.18
	Fossil Fuel Power	556.00	0.00	11.55	555.55	0.00	11.13
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	13483.86	0.00	0.00	13483.86	0.00	0.00
	Other	0.57	0.00	0.00	0.00	0.00	0.00
	Total:	15632.01	0.00	174.62	15623.61	0.00	169.13
Grand Total:		15632.01	0.00	174.62	15623.61	0.00	169.13

JURISDICTION REPORT - Minnesota

Withdrawals by Source

Units: ML/d

Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Superior							
	Public Supply	126.32	11.92	19.31	126.09	11.81	17.19
	Domestic Supply	4.47	1.29	0.08	4.28	0.57	0.00
	Irrigation	0.30	1.40	0.49	0.00	0.38	0.00
	Livestock	2.65	0.00	0.00	2.31	0.00	0.00
	Industrial	1196.49	226.78	0.08	1196.49	225.08	0.00
	Fossil Fuel Power	0.00	555.55	0.45	0.00	555.55	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	13483.86	0.00	0.00	13483.86	0.00
	Other	0.00	0.26	0.30	0.00	0.00	0.00
	Total:	1330.23	14281.07	20.71	1329.17	14277.25	17.19
Grand Total:		1330.23	14281.07	20.71	1329.17	14277.25	17.19

JURISDICTION REPORT - Minnesota

Jurisdiction Totals

Units: ML/d
Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	126.32	11.92	19.31	157.55	0.00	0.00	15.79
Domestic Supply	4.47	1.29	0.08	5.83	0.00	0.00	0.57
Irrigation	0.30	1.40	0.49	2.20	0.00	0.00	2.01
Livestock	2.65	0.00	0.00	2.65	0.00	0.00	2.38
Industrial	1196.49	226.78	0.08	1423.35	0.00	0.00	142.33
Fossil Fuel Power	0.00	555.55	0.45	556.00	0.00	0.00	11.55
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	13483.86	0.00	13483.86	0.00	0.00	0.00
Other	0.00	0.26	0.30	0.57	0.00	0.00	0.00

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	126.09	11.81	17.19	155.09	0.00	0.00	12.91
Domestic Supply	4.28	0.57	0.00	4.85	0.00	0.00	0.49
Irrigation	0.00	0.38	0.00	0.38	0.00	0.00	0.34
Livestock	2.31	0.00	0.00	2.31	0.00	0.00	2.08
Industrial	1196.49	225.08	0.00	1421.57	0.00	0.00	142.18
Fossil Fuel Power	0.00	555.55	0.00	555.55	0.00	0.00	11.13
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	13483.86	0.00	13483.86	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 2003, New York withdrawals totaled 298,326.92 mgd. (Total use, not including hydroelectric power, was 5,101.92 in 2003 compared with 5,267.04 in 2002.) Hydroelectric power was by far the largest utilization of water in New York State at 293,225.00 mgd or 98% of total withdrawals; the St. Lawrence River accounted for 59% of hydroelectric withdrawals in New York. The next largest categories of use were fossil fuel and nuclear power.

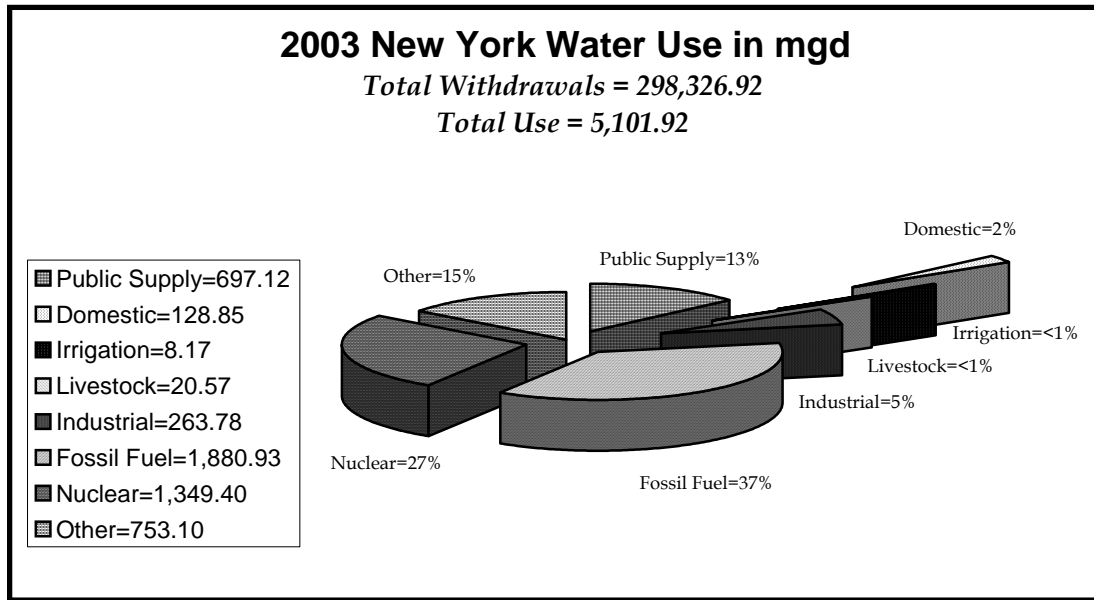


Figure 9

Consumptive Use: New York reported total consumptive uses of 320.39 mgd. Lake Ontario comprised 208.65 mgd or 65%; Lake Erie comprised 97.57 mgd or 30%; the St. Lawrence River comprised 14.17 mgd or 5%. 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 8.77 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: ML/d
and Consumptive Uses Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Erie							
	Public Supply	999.42	0.00	99.93		0.00	
	Domestic Supply	86.84	0.00	8.67	0.00	0.00	0.00
	Irrigation	2.23	0.00	2.01	2.23	0.00	2.01
	Livestock	16.28	0.00	14.65		0.00	
	Industrial	664.30	0.00	166.07	664.30	0.00	166.07
	Fossil Fuel Power	3901.78	0.00	78.02	3901.78	0.00	78.02
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	152506.68	0.00	0.00	152506.68	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	Total:	158177.53	0.00	369.34	157074.99	0.00	246.09
Lake Ontario							
	Public Supply	1486.95	33.20	178.60		33.20	0.00
	Domestic Supply	343.34	0.00	34.33	109.06	0.00	10.90
	Irrigation	28.13	0.00	25.32	28.13	0.00	25.32
	Livestock	42.36	0.00	38.12		0.00	24.72
	Industrial	280.20	0.00	70.07	280.20	0.00	70.07
	Fossil Fuel Power	3218.02	0.00	64.35	3218.02	0.00	64.35
	Nuclear Power	5108.03	0.00	255.40	5108.03	0.00	255.40
	Hydroelectric Power	306270.11	0.00	0.00	0.00	0.00	0.00
	Other	145.97	121.13	123.63	145.97	121.13	123.63
	Total:	316923.10	154.33	789.83	8889.40	154.33	574.40
St. Lawrence River							
	Public Supply	152.51	0.00	15.26		0.00	
	Domestic Supply	57.58	0.00	5.75	2.04	0.00	0.19
	Irrigation	0.57	0.00	0.53	0.57	0.00	0.53
	Livestock	19.23	0.00	17.30		0.00	
	Industrial	54.02	0.00	13.48	54.02	0.00	13.48
	Fossil Fuel Power	0.30	0.00	0.00	0.30	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	651200.64	0.00	0.00	277610.76	0.00	0.00
	Other	13.40	0.00	1.32	13.40	0.00	1.32
	Total:	651498.25	0.00	53.64	277681.09	0.00	15.52
Grand Total:		1126598.87	154.33	1212.81	443645.48	154.33	836.01

JURISDICTION REPORT- New York

Withdrawals by Source

Units: ML/d
Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Erie							
	Public Supply	698.71	273.00	27.71			
	Domestic Supply	46.67	0.00	40.16	0.00	0.00	0.00
	Irrigation	0.49	1.74	0.00	0.49	1.74	0.00
	Livestock	5.83	0.00	10.45			
	Industrial	660.33	3.33	0.64	660.33	3.33	0.64
	Fossil Fuel Power	3901.78	0.00	0.00	3901.78	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	152506.68	0.00	0.00	152506.68	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	Total:	157820.49	278.08	78.96	157069.27	5.07	0.64
Lake Ontario							
	Public Supply	709.31	650.22	127.42			
	Domestic Supply	79.87	109.06	154.41	0.00	109.06	0.00
	Irrigation	0.00	27.75	0.38	0.00	27.75	0.38
	Livestock	14.88	0.00	27.48			
	Industrial	103.38	149.03	27.78	103.38	149.03	27.78
	Fossil Fuel Power	1654.76	1563.26	0.00	1654.76	1563.26	0.00
	Nuclear Power	5108.03	0.00	0.00	5108.03	0.00	0.00
	Hydroelectric Power	0.00	306270.11	0.00	0.00	0.00	0.00
	Other	0.00	145.17	0.79	0.00	145.17	0.79
	Total:	7670.23	308914.60	338.26	6866.17	1994.27	28.96
St. Lawrence River							
	Public Supply	10.83	123.06	18.62			
	Domestic Supply	9.65	2.04	45.88	0.00	2.04	0.00
	Irrigation	0.00	0.57	0.00	0.00	0.57	0.00
	Livestock	6.70	0.00	12.53			
	Industrial	20.33	25.17	8.52	20.33	25.17	8.52
	Fossil Fuel Power	0.30	0.00	0.00	0.30	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	277610.76	373589.88	0.00	277610.76	0.00	0.00
	Other	0.00	13.40	0.00	0.00	13.40	0.00
	Total:	277658.57	373754.13	85.55	277631.39	41.19	8.52
Grand Total:		443149.29	682946.81	502.78	441566.83	2040.53	38.12

JURISDICTION REPORT- New York

Jurisdiction Totals

Units: ML/d

Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1418.85	1046.29	173.75	2638.89	0.00	33.20	293.79
Domestic Supply	136.20	111.10	240.45	487.75	0.00	0.00	48.76
Irrigation	0.49	30.06	0.38	30.93	0.00	0.00	27.86
Livestock	27.41	0.00	50.46	77.87	0.00	0.00	70.07
Industrial	784.03	177.54	36.95	998.52	0.00	0.00	249.61
Fossil Fuel Power	5556.83	1563.26	0.00	7120.09	0.00	0.00	142.37
Nuclear Power	5108.03	0.00	0.00	5108.03	0.00	0.00	255.40
Hydroelectric Power	430117.44	679860.00	0.00	1109977.43	0.00	0.00	0.00
Other	0.00	158.57	0.79	159.37	0.00	121.13	124.96

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply					0.00	33.20	0.00
Domestic Supply	0.00	111.10	0.00	111.10	0.00	0.00	11.09
Irrigation	0.49	30.06	0.38	30.93	0.00	0.00	27.86
Livestock					0.00	0.00	24.72
Industrial	784.03	177.54	36.95	998.52	0.00	0.00	249.61
Fossil Fuel Power	5556.83	1563.26	0.00	7120.09	0.00	0.00	142.37
Nuclear Power	5108.03	0.00	0.00	5108.03	0.00	0.00	255.40
Hydroelectric Power	430117.44	0.00	0.00	430117.44	0.00	0.00	0.00
Other	0.00	158.57	0.79	159.37	0.00	121.13	124.96

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 2003 were 3,207.32 mgd—down slightly from the 2002 figure of 3,352.67 mgd. As in 2002, thermoelectric-fossil fuel was by far the largest use of water at 2,243.24 mgd (70%); public supply was the second largest withdrawal at 588.42 mgd (18%).

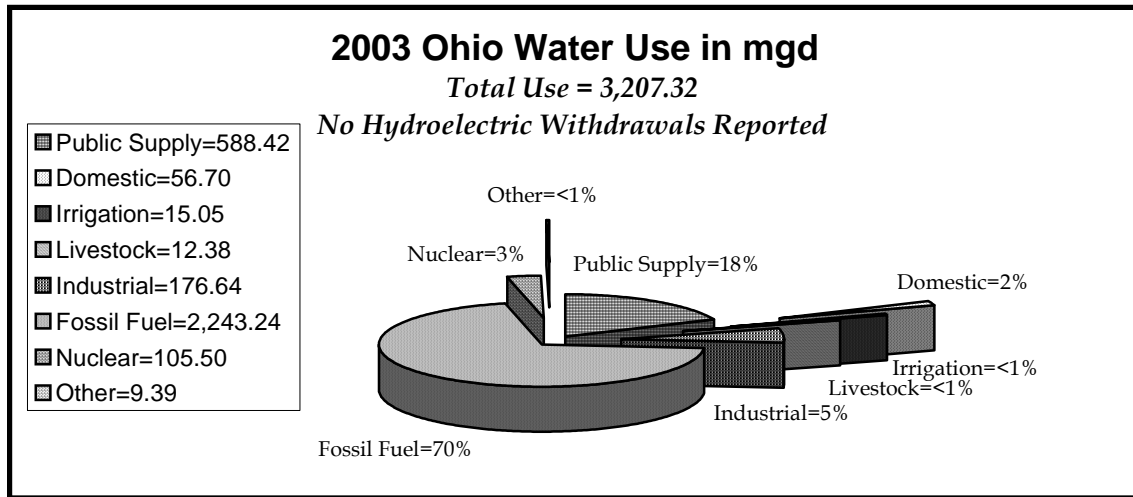


Figure 10

Consumptive Use: Total consumptive uses were calculated to be 170.87 mgd. Public supply represents the largest consumptive use sector at 88.26 mgd and accounts for 52% of the total. The next three largest consumptive uses were thermoelectric-fossil fuel at 22.43 mgd, industrial facilities at 17.67 mgd and irrigation at 13.55 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 13.92 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: ML/d
and Consumptive Uses Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Erie							
	Public Supply	2227.41	1.21	334.10	2205.00	1.21	330.77
	Domestic Supply	214.63	0.00	32.21	0.00	0.00	0.00
	Irrigation	56.97	0.00	51.29	38.12	0.00	34.30
	Livestock	46.86	0.00	37.48	2.27	0.00	1.82
	Industrial	668.66	0.00	66.89	664.64	0.00	66.47
	Fossil Fuel Power	8491.59	0.00	84.91	8491.40	0.00	84.91
	Nuclear Power	399.36	0.00	39.94	399.36	0.00	39.94
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	35.55	-52.69	0.00	34.79	-52.69	0.00
	Total:	12141.03	-51.48	646.81	11835.58	-51.48	558.20
Grand Total:		12141.03	-51.48	646.81	11835.58	-51.48	558.20

JURISDICTION REPORT- Ohio

Withdrawals by Source

Units: ML/d

Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Erie							
	Public Supply	1619.70	465.38	142.33	1618.83	464.89	121.28
	Domestic Supply	0.00	0.00	214.63	0.00	0.00	0.00
	Irrigation	0.87	45.99	10.11	0.49	33.61	4.01
	Livestock	0.00	7.50	39.37	0.00	0.83	1.44
	Industrial	177.80	342.43	148.43	177.80	341.41	145.44
	Fossil Fuel Power	5972.47	2518.93	0.19	5972.47	2518.93	0.00
	Nuclear Power	399.36	0.00	0.00	399.36	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	2.80	30.89	1.85	2.80	30.62	1.36
	Total:	8173.01	3411.11	556.91	8171.76	3390.29	273.53
Grand Total:		8173.01	3411.11	556.91	8171.76	3390.29	273.53

JURISDICTION REPORT - Ohio

Jurisdiction Totals Units: ML/d
Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1619.70	465.38	142.33	2227.41	0.00	1.21	334.10
Domestic Supply	0.00	0.00	214.63	214.63	0.00	0.00	32.21
Irrigation	0.87	45.99	10.11	56.97	0.00	0.00	51.29
Livestock	0.00	7.50	39.37	46.86	0.00	0.00	37.48
Industrial	177.80	342.43	148.43	668.66	0.00	0.00	66.89
Fossil Fuel Power	5972.47	2518.93	0.19	8491.59	0.00	0.00	84.91
Nuclear Power	399.36	0.00	0.00	399.36	0.00	0.00	39.94
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	2.80	30.89	1.85	35.55	0.00	-52.69	0.00

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1618.83	464.89	121.28	2205.00	0.00	1.21	330.77
Domestic Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Irrigation	0.49	33.61	4.01	38.12	0.00	0.00	34.30
Livestock	0.00	0.83	1.44	2.27	0.00	0.00	1.82
Industrial	177.80	341.41	145.44	664.64	0.00	0.00	66.47
Fossil Fuel Power	5972.47	2518.93	0.00	8491.40	0.00	0.00	84.91
Nuclear Power	399.36	0.00	0.00	399.36	0.00	0.00	39.94
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	2.80	30.62	1.36	34.79	0.00	-52.69	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 dedicated 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).

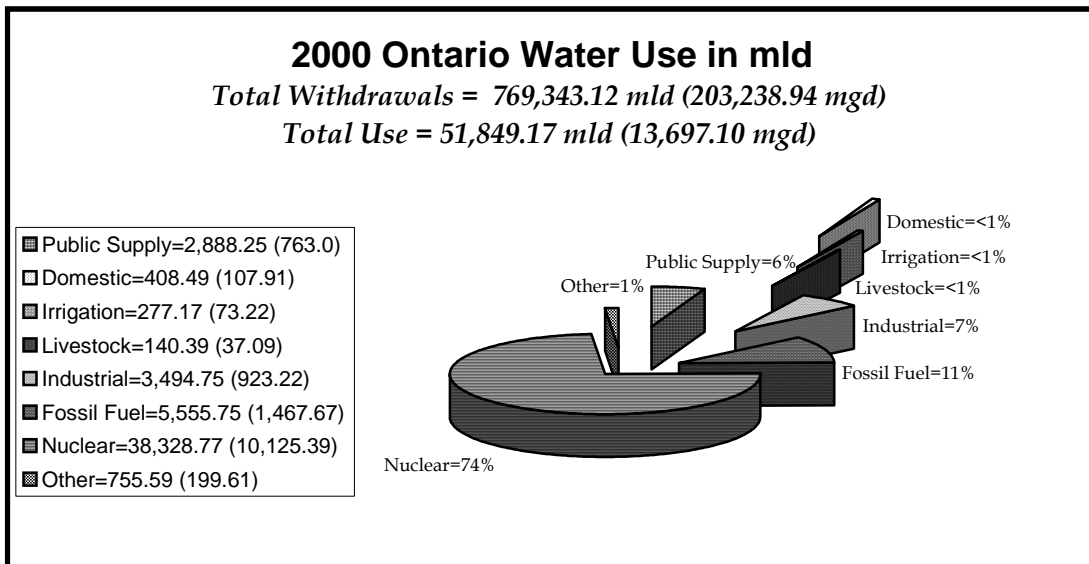


Figure 11

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 for 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 and Consumptive Uses Units: ML/d
Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Superior							
	Public Supply	173.27	0.00	26.00	172.52	0.00	25.88
	Domestic Supply	6.61	0.00	0.99	0.00	0.00	0.00
	Irrigation	1.42	0.00			0.00	
	Livestock	0.53	0.00			0.00	
	Industrial	613.70	0.00	38.66	0.00	0.00	0.00
	Fossil Fuel Power	1118.66	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	144437.37	-15170.99	0.00	0.00	0.00	0.00
	Other		0.00			0.00	
	Total:	146351.56	-15170.99	65.65	172.52	0.00	25.88
Lake Huron							
	Public Supply	319.38	0.00	47.90	309.12	0.00	46.36
	Domestic Supply	40.15	0.00	6.02	0.00	0.00	0.00
	Irrigation	79.17	0.00			0.00	
	Livestock	46.99	0.00			0.00	
	Industrial	719.96	0.00	45.35	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	17780.82	0.00	160.03	0.00	0.00	0.00
	Hydroelectric Power	127220.39	0.00	0.00	0.00	0.00	0.00
	Other	181.59	0.00	0.00	181.59	0.00	0.00
	Total:	146388.45	0.00	259.30	490.71	0.00	46.36
Lake Erie							
	Public Supply	355.41	0.00	53.31	351.42	0.00	52.71
	Domestic Supply	75.48	0.00	11.32	0.00	0.00	0.00
	Irrigation	120.57	0.00			0.00	
	Livestock	50.04	0.00			0.00	
	Industrial	683.08	0.00	43.03	0.00	0.00	0.00
	Fossil Fuel Power	1753.42	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:	3038.01	0.00	107.66	351.42	0.00	52.71

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Ontario							
	Public Supply	1519.90	200.08	43.76	1519.74	199.41	39.64
	Domestic Supply	0.00	0.00	242.90	0.00	0.00	0.00
	Irrigation	4.11	36.06	26.96			
	Livestock	0.00	3.56	16.89			
	Industrial	825.88	0.00	43.39	0.00	0.00	0.00
	Fossil Fuel Power	2683.67	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	20547.95	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	128178.00	29076.75	0.00	0.00	0.00	0.00
	Other	0.00	501.00	0.00	0.00	501.00	0.00
	Total:	153759.51	29817.45	373.90	1519.74	700.41	39.64
St. Lawrence River							
	Public Supply	40.27	222.72	13.46	40.27	221.52	11.08
	Domestic Supply	0.00	0.00	43.35	0.00	0.00	0.00
	Irrigation	0.03	7.73	1.13			
	Livestock	0.00	13.73	8.65			
	Industrial	604.75	0.00	3.99	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	288255.42	326.03	0.00	0.00	0.00	0.00
	Other	0.00	73.00	0.00	0.00	73.00	0.00
	Total:	288900.47	643.20	70.58	40.27	294.52	11.08
Grand Total:		541325.01	226960.37	1057.75	1866.85	1424.14	329.31

JURISDICTION REPORT - Ontario

Withdrawals by Source

Units: ML/d
Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Superior							
	Public Supply	113.93	49.31	10.03	113.83	49.05	9.65
	Domestic Supply	0.00	0.00	6.61	0.00	0.00	0.00
	Irrigation	0.08	1.16	0.17			
	Livestock	0.00	0.53	0.00			
	Industrial	613.69	0.00	0.01	0.00	0.00	0.00
	Fossil Fuel Power	1118.66	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	144437.37	0.00	0.00	0.00	0.00
	Other						
	Total:	1846.36	144488.37	16.82	113.83	49.05	9.65
Lake Huron							
	Public Supply	161.49	89.21	68.68	159.08	87.94	62.10
	Domestic Supply	0.00	0.00	40.15	0.00	0.00	0.00
	Irrigation	0.59	58.33	20.25			
	Livestock	11.08	11.63	24.27			
	Industrial	709.43	0.00	10.53	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	17780.82	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	75709.78	51510.61	0.00	0.00	0.00	0.00
	Other	0.00	181.59	0.00	0.00	181.59	0.00
	Total:	94373.19	51851.37	163.88	159.08	269.53	62.10
Lake Erie							
	Public Supply	33.94	110.78	210.70	33.94	110.63	206.85
	Domestic Supply	0.00	0.00	75.48	0.00	0.00	0.00
	Irrigation	2.23	45.84	72.50			
	Livestock	0.08	3.36	46.60			
	Industrial	655.80	0.00	27.28	0.00	0.00	0.00
	Fossil Fuel Power	1753.42	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:	2445.47	159.98	432.56	33.94	110.63	206.85

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Ontario							
	Public Supply	1763.74	0.00	264.56	1758.79	0.00	263.82
	Domestic Supply	242.90	0.00	36.44	0.00	0.00	0.00
	Irrigation	67.13	0.00			0.00	
	Livestock	20.45	0.00			0.00	
	Industrial	869.27	0.00	54.76	0.00	0.00	0.00
	Fossil Fuel Power	2683.67	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	20547.95	0.00	184.93	0.00	0.00	0.00
	Hydroelectric Power	157254.75	0.00	0.00	0.00	0.00	0.00
	Other	501.00	0.00	0.00	501.00	0.00	0.00
	Total:	183950.86	0.00	540.69	2259.79	0.00	263.82
St. Lawrence River							
	Public Supply	276.45	0.00	41.47	272.87	0.00	40.94
	Domestic Supply	43.35	0.00	6.50	0.00	0.00	0.00
	Irrigation	8.89	0.00			0.00	
	Livestock	22.37	0.00			0.00	
	Industrial	608.74	0.00	38.35	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	288581.45	0.00	0.00	0.00	0.00	0.00
	Other	73.00	0.00	0.00	73.00	0.00	0.00
	Total:	289614.25	0.00	86.32	345.87	0.00	40.94
Grand Total:		769343.12	-15170.99	1059.62	3620.30	0.00	429.71

JURISDICTION REPORT - Ontario

Jurisdiction Totals Units: ML/d
Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1869.53	672.09	346.63	2888.25	0.00	0.00	433.24
Domestic Supply	0.00	0.00	408.49	408.49	0.00	0.00	61.27
Irrigation	7.04	149.13	121.01	277.17	0.00	0.00	
Livestock	11.16	32.81	96.42	140.39	0.00	0.00	
Industrial	3409.55	0.00	85.20	3494.75	0.00	0.00	220.15
Fossil Fuel Power	5555.75	0.00	0.00	5555.75	0.00	0.00	0.00
Nuclear Power	38328.77	0.00	0.00	38328.77	0.00	0.00	344.96
Hydroelectric Power	492143.20	225350.76	0.00	717493.96	0.00	-15170.99	0.00
Other	0.00	755.59	0.00	755.59	234.59	0.00	0.00

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1866.85	668.55	329.31	2864.71	0.00	0.00	429.71
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	755.59	0.00	755.59	234.59	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 49.61 mgd, with no hydroelectric withdrawals reported. Public supply at 36.43 mgd or 73% of the total, and industrial at 5.64 mgd or 11% of the total, constituted the primary uses of water. Nearly 100% of withdrawals were from the Lake Erie basin (49.38 mgd of 49.61 mgd).

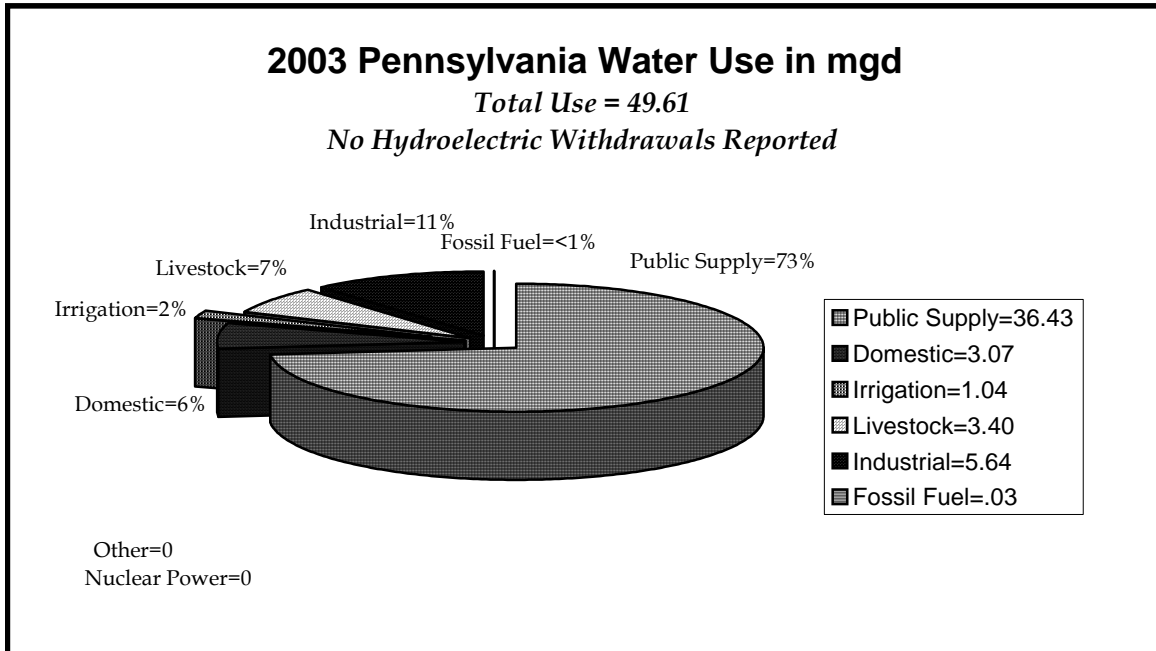


Figure 12

Consumptive Use: Consumptive use totaled 7.61 mgd, down from the 2002 figure of 9.57 mgd. Lake Erie constituted almost 100% of the consumptive use reported.

Interbasin Diversions: There was an import of 0.81 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 27% calculated or estimated, 3% partially measured, and 70% measured; the level of aggregation was 100% site-specific.

JURISDICTION REPORT - Pennsylvania

Withdrawals, Diversions and Consumptive Uses Units: ML/d
Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Erie							
	Public Supply	137.65	-3.08	13.77	132.97	-3.08	13.30
	Domestic Supply	10.98	0.00	1.10		0.00	
	Irrigation	3.95	0.00	3.56	3.38	0.00	3.05
	Livestock	12.87	0.00	10.30	12.50	0.00	10.00
	Industrial	21.36	0.00		21.16	0.00	0.42
	Fossil Fuel Power	0.10	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:	186.91	-3.08	28.72	170.02	-3.08	26.77
Lake Ontario							
	Public Supply	0.25	0.00	0.02		0.00	
	Domestic Supply	0.65	0.00	0.07		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:	0.90	0.00	0.09	0.00	0.00	0.00
Grand Total:		187.81	-3.08	28.81	170.02	-3.08	26.77

JURISDICTION REPORT - Pennsylvania

Withdrawals by Source

Units: ML/d

Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Erie							
	Public Supply	120.81	10.32	6.52	120.81	9.95	2.21
	Domestic Supply	0.00	0.00	10.98			
	Irrigation	0.07	3.85	0.03	0.00	3.38	0.00
	Livestock	0.00	8.31	4.56	0.00	7.95	4.55
	Industrial	21.16	0.03	0.17	21.16	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.10			
	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:	142.04	22.51	22.36	141.97	21.29	6.76
Lake Ontario							
	Public Supply	0.00	0.00	0.25			
	Domestic Supply	0.00	0.00	0.65			
	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	0.90	0.00	0.00	0.00
Grand Total:		142.04	22.51	23.26	141.97	21.29	6.76

JURISDICTION REPORT - Pennsylvania

Jurisdiction Totals

Units: ML/d

Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	120.81	10.32	6.76	137.89	0.00	-3.08	13.79
Domestic Supply	0.00	0.00	11.63	11.63	0.00	0.00	1.16
Irrigation	0.07	3.85	0.03	3.95	0.00	0.00	3.56
Livestock	0.00	8.31	4.56	12.87	0.00	0.00	10.30
Industrial	21.16	0.03	0.17	21.36	0.00	0.00	
Fossil Fuel Power	0.00	0.00	0.10	0.10	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	120.81	9.95	2.21	132.97	0.00	-3.08	13.30
Domestic Supply					0.00	0.00	
Irrigation	0.00	3.38	0.00	3.38	0.00	0.00	3.05
Livestock	0.00	7.95	4.55	12.50	0.00	0.00	10.00
Industrial	21.16	0.00	0.00	21.16	0.00	0.00	0.42
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 2003 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.

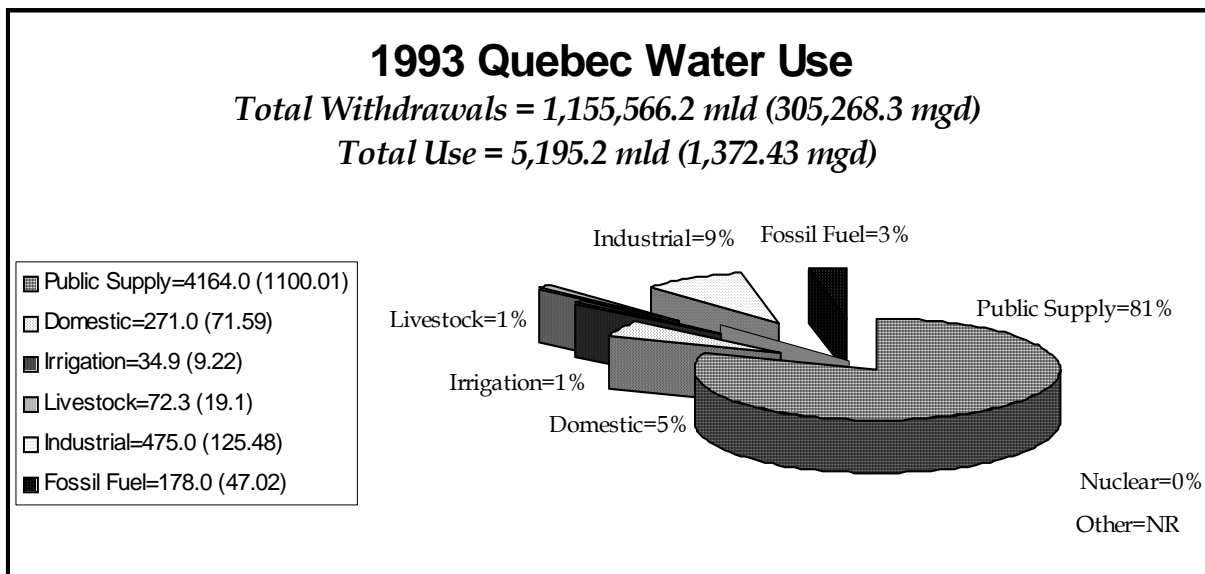


Figure 13

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 liters 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: ML/d
Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
St. Lawrence River							
	Public Supply	4164.00	0.00	416.00	4149.00	0.00	415.00
	Domestic Supply	271.00	0.00	27.00	184.00	0.00	18.00
	Irrigation	34.90	0.00	31.41		0.00	
	Livestock	72.30	0.00	57.84		0.00	
	Industrial	475.00	0.00	47.50	473.00	0.00	47.30
	Fossil Fuel Power	178.00	0.00	17.80	178.00	0.00	17.80
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	1150371.00	0.00	0.00	1150371.00	0.00	0.00
	Other		0.00			0.00	
	Total:	1155566.20	0.00	597.55	1155355.00	0.00	498.10
Grand Total:		1155566.20	0.00	597.55	1155355.00	0.00	498.10

JURISDICTION REPORT - Quebec

Withdrawals by Source

Units: ML/d

Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
St. Lawrence River							
	Public Supply	2282.00	1882.00	0.00	2281.00	1868.00	0.00
	Domestic Supply	0.00	0.00	271.00	0.00	0.00	184.00
	Irrigation	0.00	0.00	34.90			
	Livestock	0.00	0.00	72.30			
	Industrial	0.00	475.00	0.00	0.00	473.00	0.00
	Fossil Fuel Power	148.00	30.00	0.00	148.00	30.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	647102.00	503269.00	0.00	647102.00	503269.00	0.00
	Other						
	Total:	649532.00	505656.00	378.20	649531.00	505640.00	184.00
Grand Total:		649532.00	505656.00	378.20	649531.00	505640.00	184.00

JURISDICTION REPORT - Quebec

Jurisdiction Totals Units: ML/d
Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	2282.00	1882.00	0.00	4164.00	0.00	0.00	416.00
Domestic Supply	0.00	0.00	271.00	271.00	0.00	0.00	27.00
Irrigation	0.00	0.00	34.90	34.90	0.00	0.00	31.41
Livestock	0.00	0.00	72.30	72.30	0.00	0.00	57.84
Industrial	0.00	475.00	0.00	475.00	0.00	0.00	47.50
Fossil Fuel Power	148.00	30.00	0.00	178.00	0.00	0.00	17.80
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	647102.00	503269.00	0.00	1150371.00	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	2281.00	1868.00	0.00	4149.00	0.00	0.00	415.00
Domestic Supply	0.00	0.00	184.00	184.00	0.00	0.00	18.00
Irrigation					0.00	0.00	
Livestock					0.00	0.00	
Industrial	0.00	473.00	0.00	473.00	0.00	0.00	47.30
Fossil Fuel Power	148.00	30.00	0.00	178.00	0.00	0.00	17.80
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	647102.00	503269.00	0.00	1150371.00	0.00	0.00	0.00
Other					0.00	0.00	

Wisconsin

Data Sources: Wisconsin 2003 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 2003, 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 3,582.01 mgd: 3,530.00 mgd from Lake Michigan (98% of the total) and 52.01 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 77%.

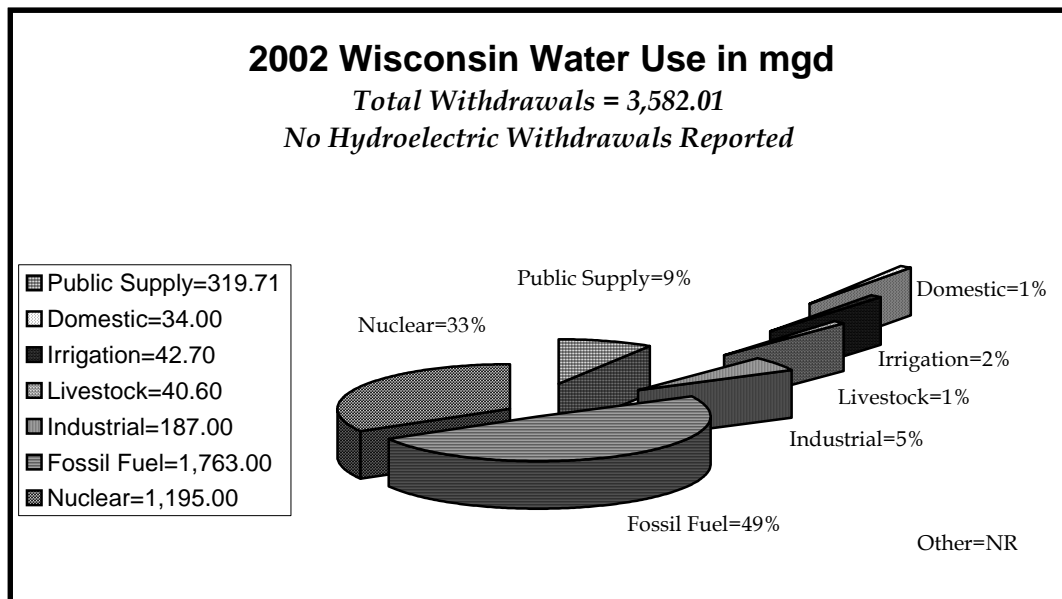


Figure 14

Consumptive Use: Consumptive uses from Wisconsin's portion of the basin were calculated to be 140.98 mgd. Of this amount, public supply at 26%, and livestock watering at 26% 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 Units: ML/d
and Consumptive Uses Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Interbasin Diver.	Consum.	Withdr.	Interbasin Diver.	Consum.
Lake Superior							
	Public Supply	15.18	0.00	1.89		0.00	
	Domestic Supply	5.30	0.00	0.53		0.00	
	Irrigation	1.14	0.00	0.79		0.00	
	Livestock	31.42	0.00	28.28		0.00	
	Industrial		0.00			0.00	
	Fossil Fuel Power	143.85	0.00	0.72		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:	196.88	0.00	32.21		0.00	
Lake Michigan							
	Public Supply	1195.05	1.51	139.30		0.00	
	Domestic Supply	123.40	0.00	12.34		0.00	
	Irrigation	160.50	0.00	112.35		0.00	
	Livestock	122.27	0.00	110.04		0.00	
	Industrial	707.87	0.00	72.19		0.00	
	Fossil Fuel Power	6529.84	0.00	32.63		0.00	
	Nuclear Power	4523.57	0.00	22.60		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		-2.42			0.00	
	Total:	13362.50	-0.91	501.45		0.00	
Grand Total:		13559.38	-0.91	533.67		0.00	

JURISDICTION REPORT - Wisconsin

Withdrawals by Source

Units: ML/d
Year Of Data: 2003

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Lake Superior							
	Public Supply	12.42	0.00	2.76			
	Domestic Supply	0.00	0.00	5.30			
	Irrigation	0.00	0.00	1.14			
	Livestock	0.00	0.00	31.42			
	Industrial						
	Fossil Fuel Power	143.85	0.00	0.00			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	Total:	156.26	0.00	40.62			
Lake Michigan							
	Public Supply	844.15	93.50	257.41			
	Domestic Supply	0.00	0.00	123.40			
	Irrigation	0.00	0.00	160.50			
	Livestock	0.00	0.00	122.27			
	Industrial	707.87	0.00	0.00			
	Fossil Fuel Power	6529.84	0.00	0.00			
	Nuclear Power	4523.57	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	Total:	12605.42	93.50	663.58			
Grand Total:		12761.68	93.50	704.20			

JURISDICTION REPORT - Wisconsin

Jurisdiction Totals

Units: ML/d
Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	856.56	93.50	260.17	1210.23	0.00	1.51	141.20
Domestic Supply	0.00	0.00	128.70	128.70	0.00	0.00	12.87
Irrigation	0.00	0.00	161.64	161.64	0.00	0.00	113.15
Livestock	0.00	0.00	153.69	153.69	0.00	0.00	138.32
Industrial	707.87	0.00	0.00	707.87	0.00	0.00	72.19
Fossil Fuel Power	6673.68	0.00	0.00	6673.68	0.00	0.00	33.35
Nuclear Power	4523.57	0.00	0.00	4523.57	0.00	0.00	22.60
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other					0.00	-2.42	

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	

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: ML/d
Year Of Data: 2003

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
Indiana							
	Public Supply	161.52	0.00	24.23	160.99	0.00	24.11
	Domestic Supply	23.20	0.00	3.48	0.83	0.00	0.11
	Irrigation	2.73	0.00	2.42	1.93	0.00	1.70
	Livestock	3.56	0.00	2.84	0.00	0.00	0.00
	Industrial	34.64	0.00	2.08	33.88	0.00	2.04
	Fossil Fuel Power	1.02	0.00	0.04	1.02	0.00	0.04
	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	226.67	0.00	35.09	198.66	0.00	28.01
Michigan							
	Public Supply	2463.62	0.00	307.94		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	88.01	0.00	79.23		0.00	
	Livestock		0.00			0.00	
	Industrial	1162.24	0.00	116.21		0.00	
	Fossil Fuel Power	15098.34	0.00	181.17		0.00	
	Nuclear Power	177.42	0.00	3.37		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		0.00			0.00	
	Total	18989.63	0.00	687.92		0.00	
New York							
	Public Supply	999.42	0.00	99.93		0.00	
	Domestic Supply	86.84	0.00	8.67	0.00	0.00	0.00
	Irrigation	2.23	0.00	2.01	2.23	0.00	2.01
	Livestock	16.28	0.00	14.65		0.00	
	Industrial	664.30	0.00	166.07	664.30	0.00	166.07
	Fossil Fuel Power	3901.78	0.00	78.02	3901.78	0.00	78.02
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	152506.68	0.00	0.00	152506.68	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	Total	158177.53	0.00	369.34	157074.99	0.00	246.09

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
Ohio							
	Public Supply	2227.41	1.21	334.10	2205.00	1.21	330.77
	Domestic Supply	214.63	0.00	32.21	0.00	0.00	0.00
	Irrigation	56.97	0.00	51.29	38.12	0.00	34.30
	Livestock	46.86	0.00	37.48	2.27	0.00	1.82
	Industrial	668.66	0.00	66.89	664.64	0.00	66.47
	Fossil Fuel Power	8491.59	0.00	84.91	8491.40	0.00	84.91
	Nuclear Power	399.36	0.00	39.94	399.36	0.00	39.94
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	35.55	-52.69	0.00	34.79	-52.69	0.00
	Total	12141.03	-51.48	646.81	11835.58	-51.48	558.20
Ontario							
	Public Supply	355.41	0.00	53.31	351.42	0.00	52.71
	Domestic Supply	75.48	0.00	11.32	0.00	0.00	0.00
	Irrigation	120.57	0.00			0.00	
	Livestock	50.04	0.00			0.00	
	Industrial	683.08	0.00	43.03	0.00	0.00	0.00
	Fossil Fuel Power	1753.42	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	3038.01	0.00	107.66	351.42	0.00	52.71
Pennsylvania							
	Public Supply	137.65	-3.08	13.77	132.97	-3.08	13.30
	Domestic Supply	10.98	0.00	1.10		0.00	
	Irrigation	3.95	0.00	3.56	3.38	0.00	3.05
	Livestock	12.87	0.00	10.30	12.50	0.00	10.00
	Industrial	21.36	0.00		21.16	0.00	0.42
	Fossil Fuel Power	0.10	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	186.91	-3.08	28.72	170.02	-3.08	26.77
Grand Total:		192759.78	-54.56	1875.55	169630.67	-54.56	911.78

BASIN REPORT- Lake Erie

Units: ML/d
 Withdrawals by Source
 Year Of Data: 2003

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Indiana							
	Public Supply	0.00	125.79	35.73	0.00	125.79	35.20
	Domestic Supply	0.00	0.00	23.20	0.00	0.00	0.83
	Irrigation	0.00	0.76	1.97	0.00	0.49	1.44
	Livestock	0.00	0.00	3.56	0.00	0.00	0.00
	Industrial	0.00	19.49	15.14	0.00	19.42	14.46
	Fossil Fuel Power	0.00	0.00	1.02	0.00	0.00	1.02
	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	146.04	80.63	0.00	145.70	52.96
Michigan							
	Public Supply	2230.97	61.55	171.10			
	Domestic Supply						
	Irrigation	2.01	49.10	36.91			
	Livestock						
	Industrial	1062.49	55.76	43.99			
	Fossil Fuel Power	15098.04	0.00	0.30			
	Nuclear Power	177.42	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	TOTAL	18570.93	166.41	252.30			
New York							
	Public Supply	698.71	273.00	27.71			
	Domestic Supply	46.67	0.00	40.16	0.00	0.00	0.00
	Irrigation	0.49	1.74	0.00	0.49	1.74	0.00
	Livestock	5.83	0.00	10.45			
	Industrial	660.33	3.33	0.64	660.33	3.33	0.64
	Fossil Fuel Power	3901.78	0.00	0.00	3901.78	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	152506.68	0.00	0.00	152506.68	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	157820.49	278.08	78.96	157069.27	5.07	0.64

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Ohio							
	Public Supply	1619.70	465.38	142.33	1618.83	464.89	121.28
	Domestic Supply	0.00	0.00	214.63	0.00	0.00	0.00
	Irrigation	0.87	45.99	10.11	0.49	33.61	4.01
	Livestock	0.00	7.50	39.37	0.00	0.83	1.44
	Industrial	177.80	342.43	148.43	177.80	341.41	145.44
	Fossil Fuel Power	5972.47	2518.93	0.19	5972.47	2518.93	0.00
	Nuclear Power	399.36	0.00	0.00	399.36	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	2.80	30.89	1.85	2.80	30.62	1.36
	TOTAL	8173.01	3411.11	556.91	8171.76	3390.29	273.53
Ontario							
	Public Supply	33.94	110.78	210.70	33.94	110.63	206.85
	Domestic Supply	0.00	0.00	75.48	0.00	0.00	0.00
	Irrigation	2.23	45.84	72.50			
	Livestock	0.08	3.36	46.60			
	Industrial	655.80	0.00	27.28	0.00	0.00	0.00
	Fossil Fuel Power	1753.42	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	2445.47	159.98	432.56	33.94	110.63	206.85
Pennsylvania							
	Public Supply	120.81	10.32	6.52	120.81	9.95	2.21
	Domestic Supply	0.00	0.00	10.98			
	Irrigation	0.07	3.85	0.03	0.00	3.38	0.00
	Livestock	0.00	8.31	4.56	0.00	7.95	4.55
	Industrial	21.16	0.03	0.17	21.16	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.10			
	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	142.04	22.51	22.36	141.97	21.29	6.76
Grand Total:		187151.93	4184.13	1423.72	165416.94	3672.99	540.74

BASIN REPORT- Lake Erie

Basin Total

Units: ML/d

Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	4704.13	1046.82	594.09	6345.04	0.00	-1.87	833.28
Domestic Supply	46.67	0.00	364.46	411.13	0.00	0.00	56.78
Irrigation	5.67	147.28	121.51	274.47	0.00	0.00	138.51
Livestock	5.91	19.17	104.53	129.61	0.00	0.00	65.26
Industrial	2577.58	421.04	235.65	3234.27	0.00	0.00	394.28
Fossil Fuel Power	26725.71	2518.93	1.62	29246.25	0.00	0.00	344.13
Nuclear Power	576.78	0.00	0.00	576.78	0.00	0.00	43.31
Hydroelectric Power	152506.68	0.00	0.00	152506.68	0.00	0.00	0.00
Other	2.80	30.89	1.85	35.55	22017.43	-52.69	0.00

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1773.58	711.26	365.55	2850.39	0.00	-1.87	420.89
Domestic Supply	0.00	0.00	0.83	0.83	0.00	0.00	0.11
Irrigation	0.98	39.23	5.45	45.67	0.00	0.00	41.05
Livestock	0.00	8.79	5.98	14.77	0.00	0.00	11.82
Industrial	859.29	364.16	160.54	1383.98	0.00	0.00	235.01
Fossil Fuel Power	9874.25	2518.93	1.02	12394.20	0.00	0.00	162.96
Nuclear Power	399.36	0.00	0.00	399.36	0.00	0.00	39.94
Hydroelectric Power	152506.68	0.00	0.00	152506.68	0.00	0.00	0.00
Other	2.80	30.62	1.36	34.79	22017.43	-52.69	0.00

BASIN REPORT- Lake Huron

Withdrawals, Diversions
and Consumptive Uses

Units: ML/d
Year Of Data: 2003

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
Michigan							
	Public Supply	1010.97	0.00	126.39		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	110.61	0.00	99.56		0.00	
	Livestock		0.00			0.00	
	Industrial	150.77	0.00	15.07		0.00	
	Fossil Fuel Power	2937.18	0.00	35.24		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	4209.53	0.00	276.26		0.00	
Ontario							
	Public Supply	319.38	0.00	47.90	309.12	0.00	46.36
	Domestic Supply	40.15	0.00	6.02	0.00	0.00	0.00
	Irrigation	79.17	0.00			0.00	
	Livestock	46.99	0.00			0.00	
	Industrial	719.96	0.00	45.35	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	17780.82	0.00	160.03	0.00	0.00	0.00
	Hydroelectric Power	127220.39	0.00	0.00	0.00	0.00	0.00
	Other	181.59	0.00	0.00	181.59	0.00	0.00
	Total	146388.45	0.00	259.30	490.71	0.00	46.36
Grand Total:		150597.98	0.00	535.56	490.71	0.00	46.36

BASIN REPORT- Lake Huron

Units: ML/d
 Withdrawals by Source
 Year Of Data: 2003

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Michigan							
	Public Supply	883.02	2.61	125.33			
	Domestic Supply						
	Irrigation	12.42	42.13	56.06			
	Livestock						
	Industrial	84.83	59.58	6.36			
	Fossil Fuel Power	2910.22	22.37	4.58			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	TOTAL	3890.50	126.70	192.34			
Ontario							
	Public Supply	161.49	89.21	68.68	159.08	87.94	62.10
	Domestic Supply	0.00	0.00	40.15	0.00	0.00	0.00
	Irrigation	0.59	58.33	20.25			
	Livestock	11.08	11.63	24.27			
	Industrial	709.43	0.00	10.53	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	17780.82	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	75709.78	51510.61	0.00	0.00	0.00	0.00
	Other	0.00	181.59	0.00	0.00	181.59	0.00
	TOTAL	94373.19	51851.37	163.88	159.08	269.53	62.10
Grand Total:		98263.69	51978.07	356.22	159.08	269.53	62.10

BASIN REPORT- Lake Huron

Basin Total

Units: ML/d

Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1044.52	91.82	194.01	1330.35	0.00	0.00	174.29
Domestic Supply	0.00	0.00	40.15	40.15	0.00	0.00	6.02
Irrigation	13.00	100.47	76.31	189.78	0.00	0.00	99.56
Livestock	11.08	11.63	24.27	46.99	0.00	0.00	
Industrial	794.26	59.58	16.89	870.73	0.00	0.00	60.42
Fossil Fuel Power	2910.22	22.37	4.58	2937.18	0.00	0.00	35.24
Nuclear Power	17780.82	0.00	0.00	17780.82	0.00	0.00	160.03
Hydroelectric Power	75709.78	51510.61	0.00	127220.39	0.00	0.00	0.00
Other	0.00	181.59	0.00	181.59	181.59	0.00	0.00

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	159.08	87.94	62.10	309.12	0.00	0.00	46.36
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	181.59	0.00	181.59	181.59	0.00	0.00

BASIN REPORT- Lake Michigan

Withdrawals, Diversions
and Consumptive Uses

Units: ML/d
Year Of Data: 2003

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
Illinois							
	Public Supply	0.00	3902.20	0.00	0.00	3902.20	0.00
	Domestic Supply	13.90	0.10	1.40	13.90	0.10	1.40
	Irrigation		0.00		0.00	0.00	0.00
	Livestock		0.00		0.00	0.00	0.00
	Industrial	46.50	0.07	2.80	46.50	0.07	2.80
	Fossil Fuel Power	2627.25	0.00	52.54	2627.25	0.00	52.54
	Nuclear Power	120.00	0.00	1.21	120.00	0.00	1.21
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.00	763.44	0.00	0.00	763.44	0.00
	Total	2807.64	4665.81	57.95	2807.64	4665.81	57.95
Indiana							
	Public Supply	539.08	-6.51	80.86	537.91	0.00	80.67
	Domestic Supply	161.22	0.00	24.19	77.75	0.00	11.66
	Irrigation	87.10	0.00	78.40	83.77	0.00	75.37
	Livestock	21.16	0.00	16.88	13.36	0.00	10.67
	Industrial	6542.37	0.00	392.59	6540.47	0.00	392.43
	Fossil Fuel Power	2570.86	0.00	51.41	2570.86	0.00	51.41
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	6414.61	0.00	0.00	6414.61	0.00	0.00
	Other	0.53	0.00	0.04	0.11	0.00	0.00
	Total	16336.93	-6.51	644.35	16238.85	0.00	622.21
Michigan							
	Public Supply	1186.84	0.00	148.39		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	893.28	0.00	803.98		0.00	
	Livestock		0.00			0.00	
	Industrial	1014.23	0.00	101.45		0.00	
	Fossil Fuel Power	4831.25	0.00	57.99		0.00	
	Nuclear Power	7853.75	0.00	149.22		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		0.00			0.00	
	Total	15779.34	0.00	1261.03		0.00	

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
Wisconsin							
	Public Supply	1195.05	1.51	139.30		0.00	
	Domestic Supply	123.40	0.00	12.34		0.00	
	Irrigation	160.50	0.00	112.35		0.00	
	Livestock	122.27	0.00	110.04		0.00	
	Industrial	707.87	0.00	72.19		0.00	
	Fossil Fuel Power	6529.84	0.00	32.63		0.00	
	Nuclear Power	4523.57	0.00	22.60		0.00	
	Hydroelectric Power	0.00	0.00	0.00		0.00	
	Other		-2.42			0.00	
	Total	13362.50	-0.91	501.45		0.00	
Grand Total:		48286.42	4658.39	2464.80	19046.49	4665.81	680.16

BASIN REPORT- Lake Michigan

Units: ML/d
 Withdrawals by Source
 Year Of Data: 2003

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	13.87	0.00	0.02	13.87	0.00	0.02
	Irrigation				0.00	0.00	0.00
	Livestock				0.00	0.00	0.00
	Industrial	46.50	0.00	0.00	46.50	0.00	0.00
	Fossil Fuel Power	2627.25	0.00	0.00	2627.25	0.00	0.00
	Nuclear Power	120.00	0.00	0.00	120.00	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	2807.62	0.00	0.02	2807.62	0.00	0.02

Indiana							
	Public Supply	366.73	0.00	172.35	366.73	0.00	171.18
	Domestic Supply	0.00	56.21	105.01	0.00	56.21	21.54
	Irrigation	0.00	20.14	66.96	0.00	18.85	64.92
	Livestock	0.00	4.43	16.73	0.00	4.43	8.93
	Industrial	6474.15	16.73	51.48	6474.00	16.73	49.74
	Fossil Fuel Power	2570.86	0.00	0.00	2570.86	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	6414.61	0.00	0.00	6414.61	0.00
	Other	0.00	0.08	0.45	0.00	0.00	0.11
	TOTAL	9411.75	6512.20	412.99	9411.59	6510.83	316.42

Michigan							
	Public Supply	542.34	2.01	642.50			
	Domestic Supply						
	Irrigation	8.06	280.31	604.91			
	Livestock						
	Industrial	396.90	334.14	283.19			
	Fossil Fuel Power	3557.57	1263.38	10.30			
	Nuclear Power	7853.75	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	TOTAL	12358.61	1879.84	1540.89			

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Wisconsin							
	Public Supply	844.15	93.50	257.41			
	Domestic Supply	0.00	0.00	123.40			
	Irrigation	0.00	0.00	160.50			
	Livestock	0.00	0.00	122.27			
	Industrial	707.87	0.00	0.00			
	Fossil Fuel Power	6529.84	0.00	0.00			
	Nuclear Power	4523.57	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	TOTAL	12605.42	93.50	663.58			
Grand Total:		37183.40	8485.53	2617.48	12219.22	6510.83	316.45

BASIN REPORT- Lake Michigan

Basin Total

Units: ML/d

Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1753.21	95.51	1072.26	2920.98	0.00	3897.21	368.55
Domestic Supply	13.87	56.21	228.43	298.52	0.00	0.10	37.93
Irrigation	8.06	300.45	832.37	1140.89	0.00	0.00	994.73
Livestock	0.00	4.43	139.00	143.43	0.00	0.00	126.92
Industrial	7625.43	350.87	334.67	8310.97	0.00	0.07	569.02
Fossil Fuel Power	15285.51	1263.38	10.30	16559.19	0.00	0.00	194.57
Nuclear Power	12497.31	0.00	0.00	12497.31	0.00	0.00	173.03
Hydroelectric Power	0.00	6414.61	0.00	6414.61	0.00	0.00	0.00
Other	0.00	0.08	0.45	0.53	0.00	761.02	0.04

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	366.73	0.00	171.18	537.91	0.00	3902.20	80.67
Domestic Supply	13.87	56.21	21.56	91.65	0.00	0.10	13.06
Irrigation	0.00	18.85	64.92	83.77	0.00	0.00	75.37
Livestock	0.00	4.43	8.93	13.36	0.00	0.00	10.67
Industrial	6520.50	16.73	49.74	6586.98	0.00	0.07	395.23
Fossil Fuel Power	5198.11	0.00	0.00	5198.11	0.00	0.00	103.95
Nuclear Power	120.00	0.00	0.00	120.00	0.00	0.00	1.21
Hydroelectric Power	0.00	6414.61	0.00	6414.61	0.00	0.00	0.00
Other	0.00	0.00	0.11	0.11	0.00	763.44	0.00

BASIN REPORT- Lake Ontario

Withdrawals, Diversions
and Consumptive Uses

Units: ML/d
Year Of Data: 2003

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
New York							
	Public Supply	1486.95	33.20	178.60		33.20	0.00
	Domestic Supply	343.34	0.00	34.33	109.06	0.00	10.90
	Irrigation	28.13	0.00	25.32	28.13	0.00	25.32
	Livestock	42.36	0.00	38.12		0.00	24.72
	Industrial	280.20	0.00	70.07	280.20	0.00	70.07
	Fossil Fuel Power	3218.02	0.00	64.35	3218.02	0.00	64.35
	Nuclear Power	5108.03	0.00	255.40	5108.03	0.00	255.40
	Hydroelectric Power	306270.11	0.00	0.00	0.00	0.00	0.00
	Other	145.97	121.13	123.63	145.97	121.13	123.63
	Total	316923.10	154.33	789.83	8889.40	154.33	574.40
Ontario							
	Public Supply	1763.74	0.00	264.56	1758.79	0.00	263.82
	Domestic Supply	242.90	0.00	36.44	0.00	0.00	0.00
	Irrigation	67.13	0.00			0.00	
	Livestock	20.45	0.00			0.00	
	Industrial	869.27	0.00	54.76	0.00	0.00	0.00
	Fossil Fuel Power	2683.67	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	20547.95	0.00	184.93	0.00	0.00	0.00
	Hydroelectric Power	157254.75	0.00	0.00	0.00	0.00	0.00
	Other	501.00	0.00	0.00	501.00	0.00	0.00
	Total	183950.86	0.00	540.69	2259.79	0.00	263.82
Pennsylvania							
	Public Supply	0.25	0.00	0.02		0.00	
	Domestic Supply	0.65	0.00	0.07		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	0.90	0.00	0.09	0.00	0.00	0.00
Grand Total:		500874.85	154.33	1330.61	11149.18	154.33	838.22

BASIN REPORT- Lake Ontario

Units: ML/d
 Withdrawals by Source
 Year Of Data: 2003

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
New York							
	Public Supply	709.31	650.22	127.42			
	Domestic Supply	79.87	109.06	154.41	0.00	109.06	0.00
	Irrigation	0.00	27.75	0.38	0.00	27.75	0.38
	Livestock	14.88	0.00	27.48			
	Industrial	103.38	149.03	27.78	103.38	149.03	27.78
	Fossil Fuel Power	1654.76	1563.26	0.00	1654.76	1563.26	0.00
	Nuclear Power	5108.03	0.00	0.00	5108.03	0.00	0.00
	Hydroelectric Power	0.00	306270.11	0.00	0.00	0.00	0.00
	Other	0.00	145.17	0.79	0.00	145.17	0.79
	TOTAL	7670.23	308914.60	338.26	6866.17	1994.27	28.96
Ontario							
	Public Supply	1519.90	200.08	43.76	1519.74	199.41	39.64
	Domestic Supply	0.00	0.00	242.90	0.00	0.00	0.00
	Irrigation	4.11	36.06	26.96			
	Livestock	0.00	3.56	16.89			
	Industrial	825.88	0.00	43.39	0.00	0.00	0.00
	Fossil Fuel Power	2683.67	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	20547.95	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	128178.00	29076.75	0.00	0.00	0.00	0.00
	Other	0.00	501.00	0.00	0.00	501.00	0.00
	TOTAL	153759.51	29817.45	373.90	1519.74	700.41	39.64
Pennsylvania							
	Public Supply	0.00	0.00	0.25			
	Domestic Supply	0.00	0.00	0.65			
	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	0.90	0.00	0.00	0.00
Grand Total:		161429.74	338732.05	713.07	8385.90	2694.68	68.60

BASIN REPORT- Lake Ontario

Basin Total

Units: ML/d

Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	2229.21	850.30	171.43	3250.93	0.00	33.20	443.18
Domestic Supply	79.87	109.06	397.96	586.89	0.00	0.00	70.84
Irrigation	4.11	63.81	27.33	95.25	0.00	0.00	25.32
Livestock	14.88	3.56	44.37	62.81	0.00	0.00	38.12
Industrial	929.26	149.03	71.17	1149.47	0.00	0.00	124.83
Fossil Fuel Power	4338.43	1563.26	0.00	5901.69	0.00	0.00	64.35
Nuclear Power	25655.98	0.00	0.00	25655.98	0.00	0.00	440.33
Hydroelectric Power	128178.00	335346.86	0.00	463524.86	0.00	0.00	0.00
Other	0.00	646.17	0.79	646.97	-21964.43	121.13	123.63

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1519.74	199.41	39.64	1758.79	0.00	33.20	263.82
Domestic Supply	0.00	109.06	0.00	109.06	0.00	0.00	10.90
Irrigation	0.00	27.75	0.38	28.13	0.00	0.00	25.32
Livestock					0.00	0.00	24.72
Industrial	103.38	149.03	27.78	280.20	0.00	0.00	70.07
Fossil Fuel Power	1654.76	1563.26	0.00	3218.02	0.00	0.00	64.35
Nuclear Power	5108.03	0.00	0.00	5108.03	0.00	0.00	255.40
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	646.17	0.79	646.97	-21964.43	121.13	123.63

BASIN REPORT- Lake Superior

Withdrawals, Diversions
and Consumptive Uses

Units: ML/d
Year Of Data: 2003

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
Michigan							
	Public Supply	48.68	0.00	6.06		0.00	
	Domestic Supply		0.00			0.00	
	Irrigation	2.20	0.00	1.97		0.00	
	Livestock		0.00			0.00	
	Industrial	46.64	0.00	4.66		0.00	
	Fossil Fuel Power	944.23	0.00	11.32		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	1041.75	0.00	24.00		0.00	
Minnesota							
	Public Supply	157.55	0.00	15.79	155.09	0.00	12.91
	Domestic Supply	5.83	0.00	0.57	4.85	0.00	0.49
	Irrigation	2.20	0.00	2.01	0.38	0.00	0.34
	Livestock	2.65	0.00	2.38	2.31	0.00	2.08
	Industrial	1423.35	0.00	142.33	1421.57	0.00	142.18
	Fossil Fuel Power	556.00	0.00	11.55	555.55	0.00	11.13
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	13483.86	0.00	0.00	13483.86	0.00	0.00
	Other	0.57	0.00	0.00	0.00	0.00	0.00
	Total	15632.01	0.00	174.62	15623.61	0.00	169.13
Ontario							
	Public Supply	173.27	0.00	26.00	172.52	0.00	25.88
	Domestic Supply	6.61	0.00	0.99	0.00	0.00	0.00
	Irrigation	1.42	0.00			0.00	
	Livestock	0.53	0.00			0.00	
	Industrial	613.70	0.00	38.66	0.00	0.00	0.00
	Fossil Fuel Power	1118.66	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	144437.37	-15170.99	0.00	0.00	0.00	0.00
	Other		0.00			0.00	
	Total	146351.56	-15170.99	65.65	172.52	0.00	25.88

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
Wisconsin							
	Public Supply	15.18	0.00	1.89		0.00	
	Domestic Supply	5.30	0.00	0.53		0.00	
	Irrigation	1.14	0.00	0.79		0.00	
	Livestock	31.42	0.00	28.28		0.00	
	Industrial		0.00			0.00	
	Fossil Fuel Power	143.85	0.00	0.72		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	196.88	0.00	32.21		0.00	
Grand Total:		163222.19	-15170.99	296.48	15796.13	0.00	195.01

BASIN REPORT- Lake Superior

Units: ML/d
 Withdrawals by Source
 Year Of Data: 2003

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Michigan							
	Public Supply	12.83	0.00	35.85			
	Domestic Supply						
	Irrigation	0.04	1.10	1.06			
	Livestock						
	Industrial	44.82	0.00	1.82			
	Fossil Fuel Power	944.23	0.00	0.00			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	TOTAL	1001.92	1.10	38.72			
Minnesota							
	Public Supply	126.32	11.92	19.31	126.09	11.81	17.19
	Domestic Supply	4.47	1.29	0.08	4.28	0.57	0.00
	Irrigation	0.30	1.40	0.49	0.00	0.38	0.00
	Livestock	2.65	0.00	0.00	2.31	0.00	0.00
	Industrial	1196.49	226.78	0.08	1196.49	225.08	0.00
	Fossil Fuel Power	0.00	555.55	0.45	0.00	555.55	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	13483.86	0.00	0.00	13483.86	0.00
	Other	0.00	0.26	0.30	0.00	0.00	0.00
	TOTAL	1330.23	14281.07	20.71	1329.17	14277.25	17.19
Ontario							
	Public Supply	113.93	49.31	10.03	113.83	49.05	9.65
	Domestic Supply	0.00	0.00	6.61	0.00	0.00	0.00
	Irrigation	0.08	1.16	0.17			
	Livestock	0.00	0.53	0.00			
	Industrial	613.69	0.00	0.01	0.00	0.00	0.00
	Fossil Fuel Power	1118.66	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	144437.37	0.00	0.00	0.00	0.00
	Other						
	TOTAL	1846.36	144488.37	16.82	113.83	49.05	9.65

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
Wisconsin							
	Public Supply	12.42	0.00	2.76			
	Domestic Supply	0.00	0.00	5.30			
	Irrigation	0.00	0.00	1.14			
	Livestock	0.00	0.00	31.42			
	Industrial						
	Fossil Fuel Power	143.85	0.00	0.00			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power	0.00	0.00	0.00			
	Other						
	TOTAL	156.26	0.00	40.62			
Grand Total:		4334.78	158770.54	116.87	1443.00	14326.30	26.83

BASIN REPORT- Lake Superior

Basin Total

Units: ML/d

Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	265.50	61.23	67.95	394.68	0.00	0.00	49.73
Domestic Supply	4.47	1.29	11.99	17.74	0.00	0.00	2.09
Irrigation	0.42	3.66	2.86	6.94	0.00	0.00	4.77
Livestock	2.65	0.53	31.42	34.60	0.00	0.00	30.66
Industrial	1855.00	226.78	1.90	2083.69	0.00	0.00	185.65
Fossil Fuel Power	2206.74	555.55	0.45	2762.74	0.00	0.00	23.58
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	157921.23	0.00	157921.23	0.00	-15170.99	0.00
Other	0.00	0.26	0.30	0.57	0.00	0.00	0.00

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	239.92	60.86	26.83	327.61	0.00	0.00	38.79
Domestic Supply	4.28	0.57	0.00	4.85	0.00	0.00	0.49
Irrigation	0.00	0.38	0.00	0.38	0.00	0.00	0.34
Livestock	2.31	0.00	0.00	2.31	0.00	0.00	2.08
Industrial	1196.49	225.08	0.00	1421.57	0.00	0.00	142.18
Fossil Fuel Power	0.00	555.55	0.00	555.55	0.00	0.00	11.13
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	13483.86	0.00	13483.86	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: ML/d
Year Of Data: 2003

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
New York							
	Public Supply	152.51	0.00	15.26		0.00	
	Domestic Supply	57.58	0.00	5.75	2.04	0.00	0.19
	Irrigation	0.57	0.00	0.53	0.57	0.00	0.53
	Livestock	19.23	0.00	17.30		0.00	
	Industrial	54.02	0.00	13.48	54.02	0.00	13.48
	Fossil Fuel Power	0.30	0.00	0.00	0.30	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	651200.64	0.00	0.00	277610.76	0.00	0.00
	Other	13.40	0.00	1.32	13.40	0.00	1.32
	Total	651498.25	0.00	53.64	277681.09	0.00	15.52
Ontario							
	Public Supply	276.45	0.00	41.47	272.87	0.00	40.94
	Domestic Supply	43.35	0.00	6.50	0.00	0.00	0.00
	Irrigation	8.89	0.00			0.00	
	Livestock	22.37	0.00			0.00	
	Industrial	608.74	0.00	38.35	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	288581.45	0.00	0.00	0.00	0.00	0.00
	Other	73.00	0.00	0.00	73.00	0.00	0.00
	Total	289614.25	0.00	86.32	345.87	0.00	40.94
Quebec							
	Public Supply	4164.00	0.00	416.00	4149.00	0.00	415.00
	Domestic Supply	271.00	0.00	27.00	184.00	0.00	18.00
	Irrigation	34.90	0.00	31.41		0.00	
	Livestock	72.30	0.00	57.84		0.00	
	Industrial	475.00	0.00	47.50	473.00	0.00	47.30
	Fossil Fuel Power	178.00	0.00	17.80	178.00	0.00	17.80
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	1150371.00	0.00	0.00	1150371.00	0.00	0.00
	Other		0.00			0.00	
	Total	1155566.20	0.00	597.55	1155355.00	0.00	498.10
Grand Total:		2096678.70	0.00	737.51	1433381.96	0.00	554.56

BASIN REPORT- St. Lawrence River

Withdrawals by Source

Units: ML/d

Year Of Data: 2003

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
New York							
	Public Supply	10.83	123.06	18.62			
	Domestic Supply	9.65	2.04	45.88	0.00	2.04	0.00
	Irrigation	0.00	0.57	0.00	0.00	0.57	0.00
	Livestock	6.70	0.00	12.53			
	Industrial	20.33	25.17	8.52	20.33	25.17	8.52
	Fossil Fuel Power	0.30	0.00	0.00	0.30	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	277610.76	373589.88	0.00	277610.76	0.00	0.00
	Other	0.00	13.40	0.00	0.00	13.40	0.00
	TOTAL	277658.57	373754.13	85.55	277631.39	41.19	8.52
Ontario							
	Public Supply	40.27	222.72	13.46	40.27	221.52	11.08
	Domestic Supply	0.00	0.00	43.35	0.00	0.00	0.00
	Irrigation	0.03	7.73	1.13			
	Livestock	0.00	13.73	8.65			
	Industrial	604.75	0.00	3.99	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	288255.42	326.03	0.00	0.00	0.00	0.00
	Other	0.00	73.00	0.00	0.00	73.00	0.00
	TOTAL	288900.47	643.20	70.58	40.27	294.52	11.08
Quebec							
	Public Supply	2282.00	1882.00	0.00	2281.00	1868.00	0.00
	Domestic Supply	0.00	0.00	271.00	0.00	0.00	184.00
	Irrigation	0.00	0.00	34.90			
	Livestock	0.00	0.00	72.30			
	Industrial	0.00	475.00	0.00	0.00	473.00	0.00
	Fossil Fuel Power	148.00	30.00	0.00	148.00	30.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	647102.00	503269.00	0.00	647102.00	503269.00	0.00
	Other						
	TOTAL	649532.00	505656.00	378.20	649531.00	505640.00	184.00
Grand Total:		1216091.04	880053.33	534.33	927202.66	505975.71	203.59

BASIN REPORT- St. Lawrence River

Basin Total

Units: ML/d

Year Of Data: 2003

Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	2333.10	2227.78	32.09	4592.97	0.00	0.00	472.73
Domestic Supply	9.65	2.04	360.23	371.93	0.00	0.00	39.25
Irrigation	0.03	8.29	36.03	44.36	0.00	0.00	31.94
Livestock	6.70	13.73	93.48	113.90	0.00	0.00	75.14
Industrial	625.08	500.17	12.51	1137.76	0.00	0.00	99.33
Fossil Fuel Power	148.30	30.00	0.00	178.30	0.00	0.00	17.80
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	1212968.18	877184.91	0.00	2090153.09	0.00	0.00	0.00
Other	0.00	86.40	0.00	86.40	0.00	0.00	1.32

Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	2321.27	2089.52	11.08	4421.87	0.00	0.00	455.94
Domestic Supply	0.00	2.04	184.00	186.04	0.00	0.00	18.19
Irrigation	0.00	0.57	0.00	0.57	0.00	0.00	0.53
Livestock					0.00	0.00	
Industrial	20.33	498.17	8.52	527.02	0.00	0.00	60.78
Fossil Fuel Power	148.30	30.00	0.00	178.30	0.00	0.00	17.80
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	924712.76	503269.00	0.00	1427981.76	0.00	0.00	0.00
Other	0.00	86.40	0.00	86.40	0.00	0.00	1.32

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: ML/d

Year Of Data: 2003

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	3902.20	0.00
Indiana	366.73	125.79	208.08	700.60	0.00	-6.51	105.08
Michigan	3669.16	66.17	974.78	4710.11	0.00	0.00	588.78
Minnesota	126.32	11.92	19.31	157.55	0.00	0.00	15.79
New York	1418.85	1046.29	173.75	2638.89	0.00	33.20	293.79
Ohio	1619.70	465.38	142.33	2227.41	0.00	1.21	334.10
Ontario	1869.53	672.09	346.63	2888.25	0.00	0.00	433.24
Pennsylvania	120.81	10.32	6.76	137.89	0.00	-3.08	13.79
Quebec	2282.00	1882.00	0.00	4164.00	0.00	0.00	416.00
Wisconsin	856.56	93.50	260.17	1210.23	0.00	1.51	141.20

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	3902.20	0.00
Indiana	366.73	125.79	206.38	698.90	0.00	0.00	104.78
Michigan					0.00	0.00	
Minnesota	126.09	11.81	17.19	155.09	0.00	0.00	12.91
New York					0.00	33.20	0.00
Ohio	1618.83	464.89	121.28	2205.00	0.00	1.21	330.77
Ontario	1866.85	668.55	329.31	2864.71	0.00	0.00	429.71
Pennsylvania	120.81	9.95	2.21	132.97	0.00	-3.08	13.30
Quebec	2281.00	1868.00	0.00	4149.00	0.00	0.00	415.00
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT - Public Supply

Units: ML/d

Year Of Data: 2003

Water-Use by Basin - All Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	265.50	61.23	67.95	394.68	0.00	0.00	49.73
Lake Michigan	1753.21	95.51	1072.26	2920.98	0.00	3897.21	368.55
Lake Huron	1044.52	91.82	194.01	1330.35	0.00	0.00	174.29
Lake Erie	4704.13	1046.82	594.09	6345.04	0.00	-1.87	833.28
Lake Ontario	2229.21	850.30	171.43	3250.93	0.00	33.20	443.18
St. Lawrence River	2333.10	2227.78	32.09	4592.97	0.00	0.00	472.73

Water-Use by Basin - Principal Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	239.92	60.86	26.83	327.61	0.00	0.00	38.79
Lake Michigan	366.73	0.00	171.18	537.91	0.00	3902.20	80.67
Lake Huron	159.08	87.94	62.10	309.12	0.00	0.00	46.36
Lake Erie	1773.58	711.26	365.55	2850.39	0.00	-1.87	420.89
Lake Ontario	1519.74	199.41	39.64	1758.79	0.00	33.20	263.82
St. Lawrence River	2321.27	2089.52	11.08	4421.87	0.00	0.00	455.94

WATER-USE CATEGORY REPORT - Domestic Supply

Units: ML/d

Year Of Data: 2003

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	13.87	0.00	0.02	13.90	0.00	0.10	1.40
Indiana	0.00	56.21	128.21	184.43	0.00	0.00	27.67
Michigan					0.00	0.00	
Minnesota	4.47	1.29	0.08	5.83	0.00	0.00	0.57
New York	136.20	111.10	240.45	487.75	0.00	0.00	48.76
Ohio	0.00	0.00	214.63	214.63	0.00	0.00	32.21
Ontario	0.00	0.00	408.49	408.49	0.00	0.00	61.27
Pennsylvania	0.00	0.00	11.63	11.63	0.00	0.00	1.16
Quebec	0.00	0.00	271.00	271.00	0.00	0.00	27.00
Wisconsin	0.00	0.00	128.70	128.70	0.00	0.00	12.87

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	13.87	0.00	0.02	13.90	0.00	0.10	1.40
Indiana	0.00	56.21	22.37	78.59	0.00	0.00	11.77
Michigan					0.00	0.00	
Minnesota	4.28	0.57	0.00	4.85	0.00	0.00	0.49
New York	0.00	111.10	0.00	111.10	0.00	0.00	11.09
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	
Quebec	0.00	0.00	184.00	184.00	0.00	0.00	18.00
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT- Domestic Supply

Units: ML/d

Year Of Data: 2003

Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	4.47	1.29	11.99	17.74	0.00	0.00	2.09
Lake Michigan	13.87	56.21	228.43	298.52	0.00	0.10	37.93
Lake Huron	0.00	0.00	40.15	40.15	0.00	0.00	6.02
Lake Erie	46.67	0.00	364.46	411.13	0.00	0.00	56.78
Lake Ontario	79.87	109.06	397.96	586.89	0.00	0.00	70.84
St. Lawrence River	9.65	2.04	360.23	371.93	0.00	0.00	39.25

Water-Use by Basin - Principal Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	4.28	0.57	0.00	4.85	0.00	0.00	0.49
Lake Michigan	13.87	56.21	21.56	91.65	0.00	0.10	13.06
Lake Huron	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Erie	0.00	0.00	0.83	0.83	0.00	0.00	0.11
Lake Ontario	0.00	109.06	0.00	109.06	0.00	0.00	10.90
St. Lawrence River	0.00	2.04	184.00	186.04	0.00	0.00	18.19

WATER-USE CATEGORY REPORT- Irrigation

Units: ML/d

Year Of Data: 2003

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	20.90	68.93	89.83	0.00	0.00	80.82
Michigan	22.52	372.64	698.94	1094.10	0.00	0.00	984.74
Minnesota	0.30	1.40	0.49	2.20	0.00	0.00	2.01
New York	0.49	30.06	0.38	30.93	0.00	0.00	27.86
Ohio	0.87	45.99	10.11	56.97	0.00	0.00	51.29
Ontario	7.04	149.13	121.01	277.17	0.00	0.00	
Pennsylvania	0.07	3.85	0.03	3.95	0.00	0.00	3.56
Quebec	0.00	0.00	34.90	34.90	0.00	0.00	31.41
Wisconsin	0.00	0.00	161.64	161.64	0.00	0.00	113.15

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	19.34	66.36	85.70	0.00	0.00	77.07
Michigan					0.00	0.00	
Minnesota	0.00	0.38	0.00	0.38	0.00	0.00	0.34
New York	0.49	30.06	0.38	30.93	0.00	0.00	27.86
Ohio	0.49	33.61	4.01	38.12	0.00	0.00	34.30
Ontario					0.00	0.00	
Pennsylvania	0.00	3.38	0.00	3.38	0.00	0.00	3.05
Quebec					0.00	0.00	
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT- Irrigation

Units: ML/d

Year Of Data: 2003

Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.42	3.66	2.86	6.94	0.00	0.00	4.77
Lake Michigan	8.06	300.45	832.37	1140.89	0.00	0.00	994.73
Lake Huron	13.00	100.47	76.31	189.78	0.00	0.00	99.56
Lake Erie	5.67	147.28	121.51	274.47	0.00	0.00	138.51
Lake Ontario	4.11	63.81	27.33	95.25	0.00	0.00	25.32
St. Lawrence River	0.03	8.29	36.03	44.36	0.00	0.00	31.94

Water-Use by Basin - Principal Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.00	0.38	0.00	0.38	0.00	0.00	0.34
Lake Michigan	0.00	18.85	64.92	83.77	0.00	0.00	75.37
Lake Huron					0.00	0.00	
Lake Erie	0.98	39.23	5.45	45.67	0.00	0.00	41.05
Lake Ontario	0.00	27.75	0.38	28.13	0.00	0.00	25.32
St. Lawrence River	0.00	0.57	0.00	0.57	0.00	0.00	0.53

WATER-USE CATEGORY REPORT - Livestock

Units: ML/d

Year Of Data: 2003

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	4.43	20.29	24.72	0.00	0.00	19.72
Michigan					0.00	0.00	
Minnesota	2.65	0.00	0.00	2.65	0.00	0.00	2.38
New York	27.41	0.00	50.46	77.87	0.00	0.00	70.07
Ohio	0.00	7.50	39.37	46.86	0.00	0.00	37.48
Ontario	11.16	32.81	96.42	140.39	0.00	0.00	
Pennsylvania	0.00	8.31	4.56	12.87	0.00	0.00	10.30
Quebec	0.00	0.00	72.30	72.30	0.00	0.00	57.84
Wisconsin	0.00	0.00	153.69	153.69	0.00	0.00	138.32

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	4.43	8.93	13.36	0.00	0.00	10.67
Michigan					0.00	0.00	
Minnesota	2.31	0.00	0.00	2.31	0.00	0.00	2.08
New York					0.00	0.00	24.72
Ohio	0.00	0.83	1.44	2.27	0.00	0.00	1.82
Ontario					0.00	0.00	
Pennsylvania	0.00	7.95	4.55	12.50	0.00	0.00	10.00
Quebec					0.00	0.00	
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT- Livestock

Units: ML/d

Year Of Data: 2003

Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	2.65	0.53	31.42	34.60	0.00	0.00	30.66
Lake Michigan	0.00	4.43	139.00	143.43	0.00	0.00	126.92
Lake Huron	11.08	11.63	24.27	46.99	0.00	0.00	
Lake Erie	5.91	19.17	104.53	129.61	0.00	0.00	65.26
Lake Ontario	14.88	3.56	44.37	62.81	0.00	0.00	38.12
St. Lawrence River	6.70	13.73	93.48	113.90	0.00	0.00	75.14

Water-Use by Basin - Principal Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	2.31	0.00	0.00	2.31	0.00	0.00	2.08
Lake Michigan	0.00	4.43	8.93	13.36	0.00	0.00	10.67
Lake Huron					0.00	0.00	
Lake Erie	0.00	8.79	5.98	14.77	0.00	0.00	11.82
Lake Ontario					0.00	0.00	24.72
St. Lawrence River					0.00	0.00	

WATER-USE CATEGORY REPORT- Industrial

Units: ML/d

Year Of Data: 2003

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	46.50	0.00	0.00	46.50	0.00	0.07	2.80
Indiana	6474.15	36.23	66.62	6577.00	0.00	0.00	394.67
Michigan	1589.04	449.48	335.35	2373.87	0.00	0.00	237.38
Minnesota	1196.49	226.78	0.08	1423.35	0.00	0.00	142.33
New York	784.03	177.54	36.95	998.52	0.00	0.00	249.61
Ohio	177.80	342.43	148.43	668.66	0.00	0.00	66.89
Ontario	3409.55	0.00	85.20	3494.75	0.00	0.00	220.15
Pennsylvania	21.16	0.03	0.17	21.36	0.00	0.00	
Quebec	0.00	475.00	0.00	475.00	0.00	0.00	47.50
Wisconsin	707.87	0.00	0.00	707.87	0.00	0.00	72.19

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	46.50	0.00	0.00	46.50	0.00	0.07	2.80
Indiana	6474.00	36.15	64.20	6574.35	0.00	0.00	394.48
Michigan					0.00	0.00	
Minnesota	1196.49	225.08	0.00	1421.57	0.00	0.00	142.18
New York	784.03	177.54	36.95	998.52	0.00	0.00	249.61
Ohio	177.80	341.41	145.44	664.64	0.00	0.00	66.47
Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennsylvania	21.16	0.00	0.00	21.16	0.00	0.00	0.42
Quebec	0.00	473.00	0.00	473.00	0.00	0.00	47.30
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT- Industrial

Units: ML/d

Year Of Data: 2003

Water-Use by Basin - All Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	1855.00	226.78	1.90	2083.69	0.00	0.00	185.65
Lake Michigan	7625.43	350.87	334.67	8310.97	0.00	0.07	569.02
Lake Huron	794.26	59.58	16.89	870.73	0.00	0.00	60.42
Lake Erie	2577.58	421.04	235.65	3234.27	0.00	0.00	394.28
Lake Ontario	929.26	149.03	71.17	1149.47	0.00	0.00	124.83
St. Lawrence River	625.08	500.17	12.51	1137.76	0.00	0.00	99.33

Water-Use by Basin - Principal Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	1196.49	225.08	0.00	1421.57	0.00	0.00	142.18
Lake Michigan	6520.50	16.73	49.74	6586.98	0.00	0.07	395.23
Lake Huron	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Erie	859.29	364.16	160.54	1383.98	0.00	0.00	235.01
Lake Ontario	103.38	149.03	27.78	280.20	0.00	0.00	70.07
St. Lawrence River	20.33	498.17	8.52	527.02	0.00	0.00	60.78

WATER-USE CATEGORY REPORT - Fossil Fuel Power

Units: ML/d
Year Of Data: 2003

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	2627.25	0.00	0.00	2627.25	0.00	0.00	52.54
Indiana	2570.86	0.00	1.02	2571.88	0.00	0.00	51.44
Michigan	22510.07	1285.75	15.18	23811.00	0.00	0.00	285.72
Minnesota	0.00	555.55	0.45	556.00	0.00	0.00	11.55
New York	5556.83	1563.26	0.00	7120.09	0.00	0.00	142.37
Ohio	5972.47	2518.93	0.19	8491.59	0.00	0.00	84.91
Ontario	5555.75	0.00	0.00	5555.75	0.00	0.00	0.00
Pennsylvania	0.00	0.00	0.10	0.10	0.00	0.00	0.00
Quebec	148.00	30.00	0.00	178.00	0.00	0.00	17.80
Wisconsin	6673.68	0.00	0.00	6673.68	0.00	0.00	33.35

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	2627.25	0.00	0.00	2627.25	0.00	0.00	52.54
Indiana	2570.86	0.00	1.02	2571.88	0.00	0.00	51.44
Michigan					0.00	0.00	
Minnesota	0.00	555.55	0.00	555.55	0.00	0.00	11.13
New York	5556.83	1563.26	0.00	7120.09	0.00	0.00	142.37
Ohio	5972.47	2518.93	0.00	8491.40	0.00	0.00	84.91
Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennsylvania					0.00	0.00	
Quebec	148.00	30.00	0.00	178.00	0.00	0.00	17.80
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT - Fossil Fuel Power

Units: ML/d
Year Of Data: 2003

Water-Use by Basin - All Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	2206.74	555.55	0.45	2762.74	0.00	0.00	23.58
Lake Michigan	15285.51	1263.38	10.30	16559.19	0.00	0.00	194.57
Lake Huron	2910.22	22.37	4.58	2937.18	0.00	0.00	35.24
Lake Erie	26725.71	2518.93	1.62	29246.25	0.00	0.00	344.13
Lake Ontario	4338.43	1563.26	0.00	5901.69	0.00	0.00	64.35
St. Lawrence River	148.30	30.00	0.00	178.30	0.00	0.00	17.80

Water-Use by Basin - Principal Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	0.00	555.55	0.00	555.55	0.00	0.00	11.13
Lake Michigan	5198.11	0.00	0.00	5198.11	0.00	0.00	103.95
Lake Huron	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Erie	9874.25	2518.93	1.02	12394.20	0.00	0.00	162.96
Lake Ontario	1654.76	1563.26	0.00	3218.02	0.00	0.00	64.35
St. Lawrence River	148.30	30.00	0.00	178.30	0.00	0.00	17.80

WATER-USE CATEGORY REPORT - Nuclear Power

Units: ML/d

Year Of Data: 2003

Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	120.00	0.00	0.00	120.00	0.00	0.00	1.21
Indiana	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Michigan	8031.17	0.00	0.00	8031.17	0.00	0.00	152.59
Minnesota	0.00	0.00	0.00	0.00	0.00	0.00	0.00
New York	5108.03	0.00	0.00	5108.03	0.00	0.00	255.40
Ohio	399.36	0.00	0.00	399.36	0.00	0.00	39.94
Ontario	38328.77	0.00	0.00	38328.77	0.00	0.00	344.96
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	4523.57	0.00	0.00	4523.57	0.00	0.00	22.60

Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	120.00	0.00	0.00	120.00	0.00	0.00	1.21
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	5108.03	0.00	0.00	5108.03	0.00	0.00	255.40
Ohio	399.36	0.00	0.00	399.36	0.00	0.00	39.94
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: ML/d

Year Of Data: 2003

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	12497.31	0.00	0.00	12497.31	0.00	0.00	173.03
Lake Huron	17780.82	0.00	0.00	17780.82	0.00	0.00	160.03
Lake Erie	576.78	0.00	0.00	576.78	0.00	0.00	43.31
Lake Ontario	25655.98	0.00	0.00	25655.98	0.00	0.00	440.33
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	120.00	0.00	0.00	120.00	0.00	0.00	1.21
Lake Huron	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Erie	399.36	0.00	0.00	399.36	0.00	0.00	39.94
Lake Ontario	5108.03	0.00	0.00	5108.03	0.00	0.00	255.40
St. Lawrence River	0.00	0.00	0.00	0.00	0.00	0.00	0.00

WATER-USE CATEGORY REPORT - Hydroelectric Power

Units: ML/d

Year Of Data: 2003

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	6414.61	0.00	6414.61	0.00	0.00	0.00
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	0.00	13483.86	0.00	13483.86	0.00	0.00	0.00
New York	430117.44	679860.00	0.00	1109977.43	0.00	0.00	0.00
Ohio	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ontario	492143.20	225350.76	0.00	717493.96	0.00	-15170.99	0.00
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	647102.00	503269.00	0.00	1150371.00	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	6414.61	0.00	6414.61	0.00	0.00	0.00
Michigan					0.00	0.00	
Minnesota	0.00	13483.86	0.00	13483.86	0.00	0.00	0.00
New York	430117.44	0.00	0.00	430117.44	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	647102.00	503269.00	0.00	1150371.00	0.00	0.00	0.00
Wisconsin					0.00	0.00	

WATER-USE CATEGORY REPORT- Hydroelectric Power

Units: ML/d

Year Of Data: 2003

Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.00	157921.23	0.00	157921.23	0.00	-15170.99	0.00
Lake Michigan	0.00	6414.61	0.00	6414.61	0.00	0.00	0.00
Lake Huron	75709.78	51510.61	0.00	127220.39	0.00	0.00	0.00
Lake Erie	152506.68	0.00	0.00	152506.68	0.00	0.00	0.00
Lake Ontario	128178.00	335346.86	0.00	463524.86	0.00	0.00	0.00
St. Lawrence River	1212968.18	877184.91	0.00	2090153.09	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	13483.86	0.00	13483.86	0.00	0.00	0.00
Lake Michigan	0.00	6414.61	0.00	6414.61	0.00	0.00	0.00
Lake Huron	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Erie	152506.68	0.00	0.00	152506.68	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	924712.76	503269.00	0.00	1427981.76	0.00	0.00	0.00

WATER-USE CATEGORY REPORT- Other

Units: ML/d

Year Of Data: 2003

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	763.44	0.00
Indiana	0.00	0.08	0.45	0.53	0.00	0.00	0.04
Michigan					0.00	0.00	
Minnesota	0.00	0.26	0.30	0.57	0.00	0.00	0.00
New York	0.00	158.57	0.79	159.37	0.00	121.13	124.96
Ohio	2.80	30.89	1.85	35.55	0.00	-52.69	0.00
Ontario	0.00	755.59	0.00	755.59	234.59	0.00	0.00
Pennsylvania					0.00	0.00	
Quebec					0.00	0.00	
Wisconsin					0.00	-2.42	

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	763.44	0.00
Indiana	0.00	0.00	0.11	0.11	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	0.00	158.57	0.79	159.37	0.00	121.13	124.96
Ohio	2.80	30.62	1.36	34.79	0.00	-52.69	0.00
Ontario	0.00	755.59	0.00	755.59	234.59	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: ML/d

Year Of Data: 2003

Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.00	0.26	0.30	0.57	0.00	0.00	0.00
Lake Michigan	0.00	0.08	0.45	0.53	0.00	761.02	0.04
Lake Huron	0.00	181.59	0.00	181.59	181.59	0.00	0.00
Lake Erie	2.80	30.89	1.85	35.55	22017.43	-52.69	0.00
Lake Ontario	0.00	646.17	0.79	646.97	-21964.43	121.13	123.63
St. Lawrence River	0.00	86.40	0.00	86.40	0.00	0.00	1.32

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	0.00	0.11	0.11	0.00	763.44	0.00
Lake Huron	0.00	181.59	0.00	181.59	181.59	0.00	0.00
Lake Erie	2.80	30.62	1.36	34.79	22017.43	-52.69	0.00
Lake Ontario	0.00	646.17	0.79	646.97	-21964.43	121.13	123.63
St. Lawrence River	0.00	86.40	0.00	86.40	0.00	0.00	1.32