

# Annual Report of the Great Lakes Regional Water Use Database **Representing 2010 Water Use Data**

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Prepared by Rebecca Pearson, Great Lakes Commission

## Acknowledgements

The Great Lakes Commission wishes to thank each of the jurisdictional representatives listed on page eight for their work in collecting and transmitting the data for this report. The members' attention to detail and commitment to accuracy, and the collective familiarity with the subject matter, are all invaluable contributions to this project.

## Forward

The Great Lakes Regional Water Use Database was established by the Great Lakes states and provinces in response to the recommendation of the Great Lakes Charter of 1985, which calls for a uniform, consistent base of data of Great Lakes water withdrawals, diversions and consumptive uses. Beginning in 1987, water use data have been submitted to the repository on an annual basis and reports 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 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 original 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the evolving needs of the Great Lakes state and provincial water resources management programs, that system soon became outdated.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 a revised database which is used for this report. The 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.

A Great Lakes Regional Water Use Database to provide comparable water use information on withdrawals, diversions and consumptive use is also required under Article 4 of the Great Lakes—St. Lawrence River Basin Water Resources Compact (hereinafter referred to as “the Compact”) and Article 301 of the Great Lakes-St. Lawrence River Basin Sustainable Water Resources Agreement (hereinafter referred to as “the Agreement”). Under the Compact and the Agreement, the parties (states and provinces) are required to report water use information to the regional database repository and aggregated information will be made available to the public on an annual basis.

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## Overview of the Great Lakes Basin Water Use

### Introduction

The Great Lakes Commission - the repository for the Great Lakes Regional Water Use Database - annually requests for the previous year's water use data from the states and provinces. All data are submitted to the repository in a Microsoft Excel or Access format then compiled into a single Microsoft Access database.

All data are in one of two unit measures - millions of U.S. gallons per day (mgd) or millions of liters per day (mld). 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). Definitions and abbreviations of terms used in this report can be found on page 6.

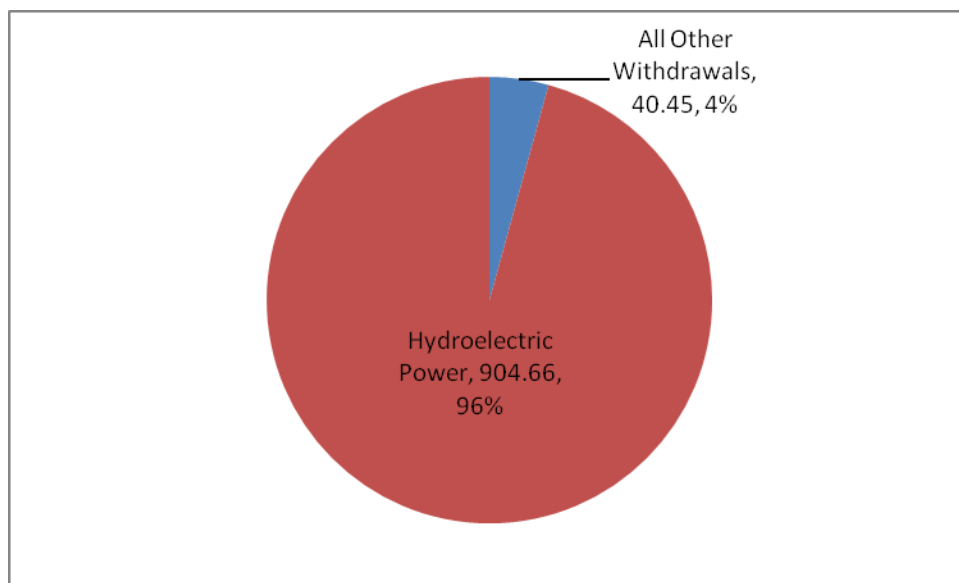
The level of accuracy for each entry is rated as 1) measured, 2) partially measured or 3) estimated, and the level of aggregation is rated as originating from 1) site-specific sources or 2) higher level aggregate sources such as county or census databases. Both measures of quality are based on percentages 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. Under the interim reporting protocols adopted in 2009 pursuant to the Compact and the Agreement, hydroelectric will not be considered a "withdrawal", but rather a "use." In future reports starting with 2012 data, it will be not aggregated with total withdrawals, but rather aggregated separately as a use. As the following chart illustrates, this is the largest single category of withdrawal and represents 96 percent of the total amount of water "withdrawn" in 2010.

Each of the ten jurisdictions' water use is represented in

Figure 2 and Figure 3. Figure 2 includes self-supply hydroelectric use. In total, water withdrawals for the year 2010 were approximately 949.33 billion gallons per day, or about 3,593.59 billion liters per day.

**Figure 1. 2010 Great Lakes Water Use (In billions of gallons per day)**



**Figure 2. 2010 Great Lakes Water Use by Jurisdiction**  
(In billions of gallons per day and includes hydroelectric)

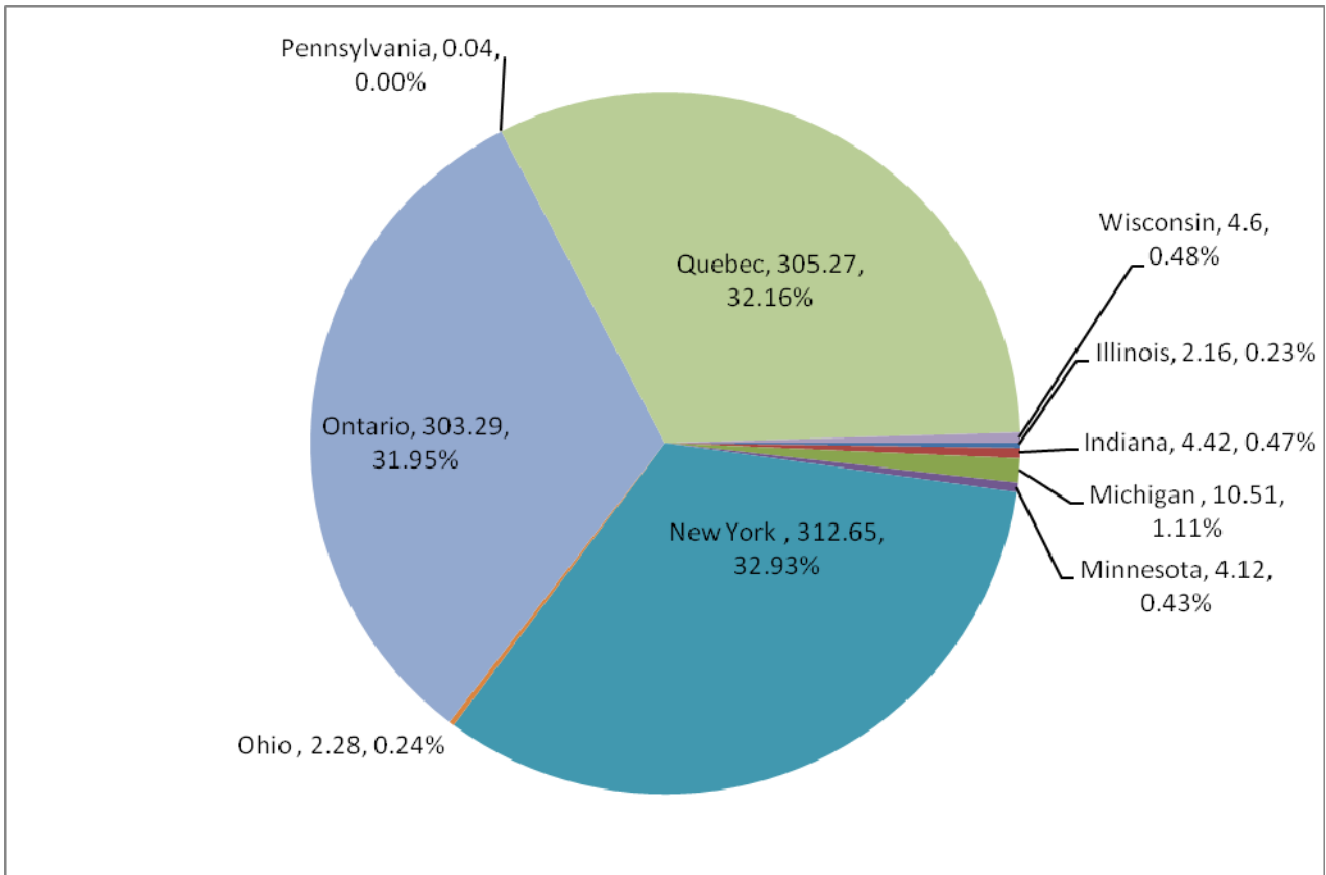
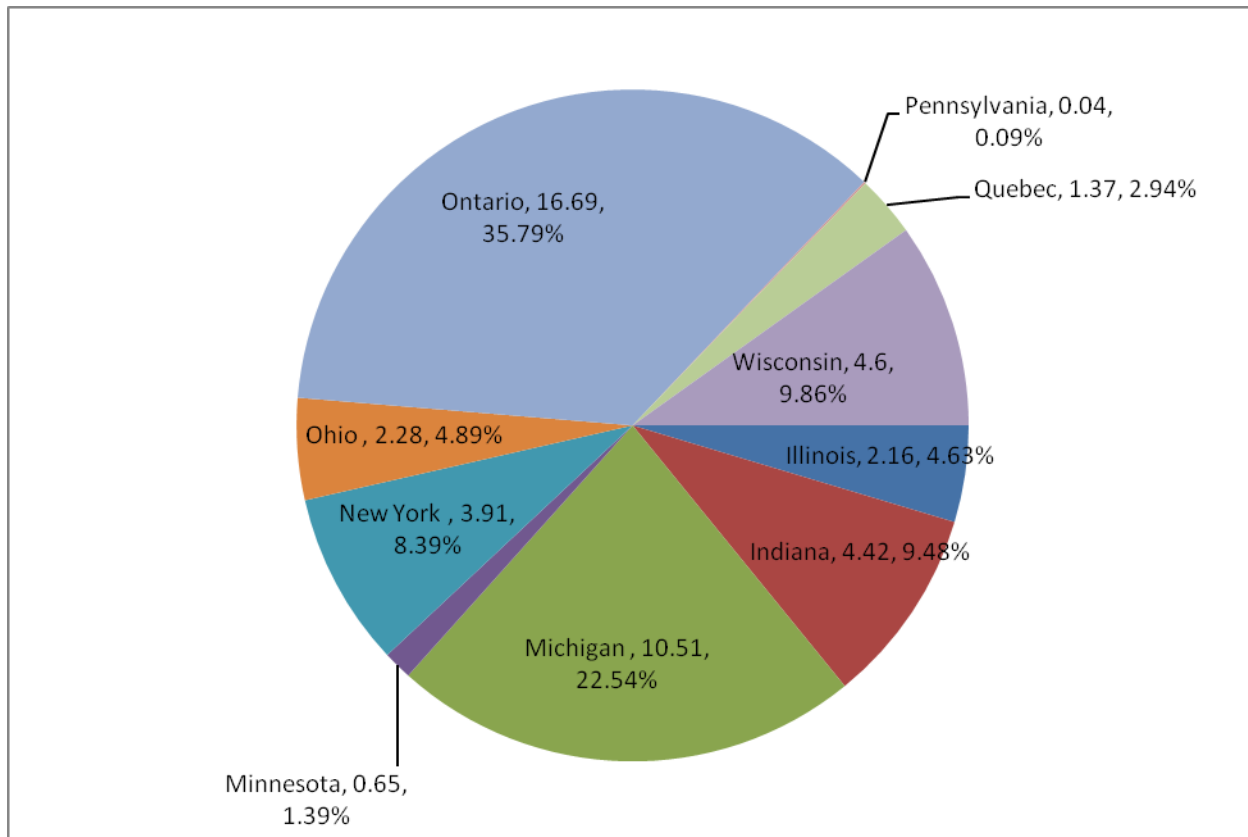


Figure 3 more accurately reflects the actual water withdrawals within the basin, as it does not include self-supply hydroelectric use. Water withdrawals for the eight remaining off-stream categories totaled 44.67 billion gallons per day, or 169.09 billion liters per day.

**Figure 3. 2010 Great Lakes Water Use by Jurisdiction**  
 (In billions of gallons per day and excludes hydroelectric)



Pie charts showing individual jurisdictional water use, beginning with Illinois on page 14, are in million gallons per day.

## 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 positive numbers (e.g. without a minus sign) indicate water leaving the Great Lakes basin; interbasin diversions shown in the tables as negative numbers (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](http://www.cwra.org/publications), or by calling 519/622-4764.

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](http://www.cwra.org/publications), or by calling 519/622-4764.

### Consumptive Uses

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. Total consumptive use in the basin for 2010 was calculated to be 1.79 bgd (6.76 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](http://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](http://www.glc.org/wateruse/wrmdss/finalreport/pdf/CU_briefing.pdf)).

## Consumptive Use Coefficients

Water Use Category	Illinois	Indiana	Michigan	Minnesota	New York	Ohio	Ontario	Pennsylvania	Québec	Wisconsin
<b>Public Supply</b>	10-15%	15%	10-15%	10-15%	10%	10-15%	15%	10%	10-15%	10-15%
<b>Domestic</b>	10-15%	15%	10-15%	10-15%	10%	10-15%	15%	10%	10-15%	10-15%
<b>Irrigation</b>	90%	90%	90%	90%	90%	90%	78%	90%	90%	70%
<b>Livestock</b>	80%	80%	80%	80%	90%	80%	80%	80%	80%	90%
<b>Industrial</b>	Varies by plant & SIC code	6%	10-15%	Varies by plant & SIC code	25%	10%; except quarry dewatering which is 0%	Varies by plant & SIC code	Varies by plant & SIC code	10% for pulp & paper industry	10.2% for manufacturing & mining
<b>Fossil Fuel</b>	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%	10% for closed cycle cooling facilities & 1% for once-through cooling facilities	.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%
<b>Nuclear</b>	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%	10% for closed cycle cooling facilities & 1% for once-through cooling facilities	.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%
<b>Hydroelectric</b>	Coefficient for all states and provinces is 0%									
<b>Other</b>	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

**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

**intrabasin diversion (positive):** water transferred out of one Great Lakes watershed into another

**intrabasin 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, all surface water in the basin except that within one of the Great Lakes themselves

**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 its total withdrawal (or consumption) from all sources combined (Great Lakes surface water, other surface water, and groundwater). 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 <sup>a</sup>)

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<sup>a</sup> Under the draft water use information reporting protocols that will guide the implementation of the new water use information commitments set forth in the Great Lakes-St. Lawrence River Water Resources Compact and Agreement, hydroelectric will not be considered a “withdrawal”, but rather a “use.”

## Water Use Category Definitions<sup>b</sup>

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 not provided by a public water supply and used for normal residential, commercial and institutional purposes. Residential water use includes water used for drinking, food preparation, bathing, washing clothes and dishes, flushing toilets, and watering lawns. Commercial and institutional uses include water used within motels, hotels, restaurants, office buildings and institutions, both civilian and military, mobile homes, hospitals, schools, fire fighting, air conditioning and other similar uses not provided by a public water supply. In addition, this category includes amusement and recreational water uses such as snowmaking and water slides. The use coefficient per capita 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 is 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 withdrawals. 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 fuels. 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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<sup>b</sup> These definitions are used to implement the water use information commitments set forth in the Great Lakes Charter of 1985. Slight modifications to these water use category definitions will occur to implement the new water use information commitments set forth in the Great Lakes-St. Lawrence River Water Resources Compact and Agreement. These modifications will be realized when the regional database is updated in the near future.

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## Great Lakes Basin Summary Tables

Water use tables in this section are organized by:

- Jurisdiction
- Great Lakes or St. Lawrence basin, and
- Water use category

# SUMMARY REPORT - GREAT LAKES BASIN

Units: Bgal(US)/d

Year Of Data: 2010

## Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	2.16	0.00	0.00	2.16	0.00	1.15	0.00
Indiana	2.28	2.03	0.11	4.42	0.00	0.08	0.18
Michigan	8.48	1.53	0.50	10.51	0.00		0.53
Minnesota	0.40	3.71	0.01	4.12	0.00	0.01	0.03
New York	132.04	180.47	0.15	312.65	0.00	0.04	0.35
Ohio	1.30	0.82	0.16	2.28	0.00	-0.01	0.17
Ontario	158.28	144.72	0.28	303.29	0.06	-4.01	0.32
Pennsylvania	0.03	0.00	0.00	0.04			0.01
Quebec	171.59	133.58	0.10	305.27	0.00	0.00	0.16
Wisconsin	3.91	0.60	0.10	4.60	0.00	-0.03	0.11
<b>Total:</b>	<b>480.48</b>	<b>467.45</b>	<b>1.39</b>	<b>949.33</b>	<b>0.06</b>	<b>-2.76</b>	<b>1.86</b>

## Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	2.16	0.00	0.00	2.16	0.00	1.15	0.00
Indiana	2.28	2.03	0.10	4.41	0.00	0.08	0.18
Michigan	8.48	1.52	0.47	10.47	0.00		0.51
Minnesota	0.40	3.71	0.01	4.12	0.00	0.01	0.03
New York	130.70	0.51	0.02	131.22	0.00	0.04	0.21
Ohio	1.30	0.81	0.09	2.20	0.00	-0.01	0.15
Ontario	157.38	144.67	0.09	302.14	0.06	0.00	0.24
Pennsylvania	0.03	0.00	0.00	0.04			0.00
Quebec	171.59	133.58	0.05	305.21	0.00	0.00	0.13
Wisconsin							
<b>Total:</b>	<b>474.33</b>	<b>286.83</b>	<b>0.82</b>	<b>761.97</b>	<b>0.06</b>	<b>1.27</b>	<b>1.46</b>

# SUMMARY REPORT - GREAT LAKES BASIN

Units: Bgal(US)/d

Year Of Data: 2010

## Water-Use by Basin - All Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	0.93	39.75	0.02	40.70	0.00	-4.00	0.06
Lake Michigan	11.37	3.27	0.55	15.19	0.00	1.20	0.56
Lake Huron	25.40	21.98	0.10	47.48	0.05	0.00	0.12
Lake Erie	53.02	1.73	0.40	55.15	5.82	0.00	0.51
Lake Ontario	47.48	96.50	0.19	144.16	-5.80	0.04	0.39
St. Lawrence River	342.28	304.23	0.14	646.65	0.00	0.00	0.21
<b>Total:</b>	<b>480.48</b>	<b>467.45</b>	<b>1.39</b>	<b>949.33</b>	<b>0.06</b>	<b>-2.76</b>	<b>1.86</b>

## Water-Use by Basin - Principal Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	0.73	39.74	0.02	40.49	0.00	0.01	0.04
Lake Michigan	7.50	2.67	0.43	10.60	0.00	1.22	0.44
Lake Huron	25.21	21.96	0.07	47.24	0.05	0.00	0.11
Lake Erie	51.97	1.63	0.23	53.84	5.82	0.00	0.42
Lake Ontario	46.80	15.35	0.02	62.17	-5.80	0.04	0.29
St. Lawrence River	342.11	205.48	0.05	547.64	0.00	0.00	0.15
<b>Total:</b>	<b>474.33</b>	<b>286.83</b>	<b>0.82</b>	<b>761.97</b>	<b>0.06</b>	<b>1.27</b>	<b>1.46</b>

# SUMMARY REPORT - GREAT LAKES BASIN

Units: Bgal(US)/d

Year Of Data: 2010

## Water-Use by Category - All Facilities

Category	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Public Supply	3.90	1.13	0.46	5.49	0.00	0.97	0.56
Domestic Supply	0.06	0.11	0.32	0.49	0.00	0.00	0.06
Irrigation	0.00	0.17	0.26	0.44	0.00	0.00	0.32
Livestock	0.01	0.05	0.09	0.16	0.00	0.00	0.10
Industrial	3.21	0.77	0.24	4.22	0.00	0.03	0.36
Fossil Fuel Power	13.25	2.67	0.00	15.92	0.00	0.00	0.17
Nuclear Power	17.43	0.00	0.00	17.43	0.00	0.00	0.24
Hydroelectric Power	442.38	462.27	0.00	904.66	0.00	-4.01	0.00
Other	0.24	0.28	0.01	0.53	0.06	0.24	0.04
<b>Total:</b>	<b>480.48</b>	<b>467.45</b>	<b>1.39</b>	<b>949.33</b>	<b>0.06</b>	<b>-2.76</b>	<b>1.86</b>

## Water-Use by Category - Principal Facilities

Category	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Public Supply	3.35	0.84	0.35	4.54	0.00	0.97	0.46
Domestic Supply	0.00	0.03	0.06	0.10	0.00	0.00	0.01
Irrigation	0.00	0.12	0.19	0.31	0.00	0.00	0.28
Livestock	0.00	0.01	0.00	0.01	0.00	0.00	0.01
Industrial	2.31	0.60	0.20	3.11	0.00	0.03	0.28
Fossil Fuel Power	10.00	2.27	0.00	12.28	0.00	0.00	0.14
Nuclear Power	16.04	0.00	0.00	16.04	0.00	0.00	0.24
Hydroelectric Power	442.38	282.67	0.00	725.06	0.00	0.00	0.00
Other	0.24	0.28	0.01	0.53	0.06	0.27	0.04
<b>Total:</b>	<b>474.33</b>	<b>286.83</b>	<b>0.82</b>	<b>761.97</b>	<b>0.06</b>	<b>1.27</b>	<b>1.46</b>

## Jurisdiction Tables and Analyses

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

- Withdrawals, diversions and consumptive uses;
- Withdrawals by sources; and
- Jurisdiction totals.

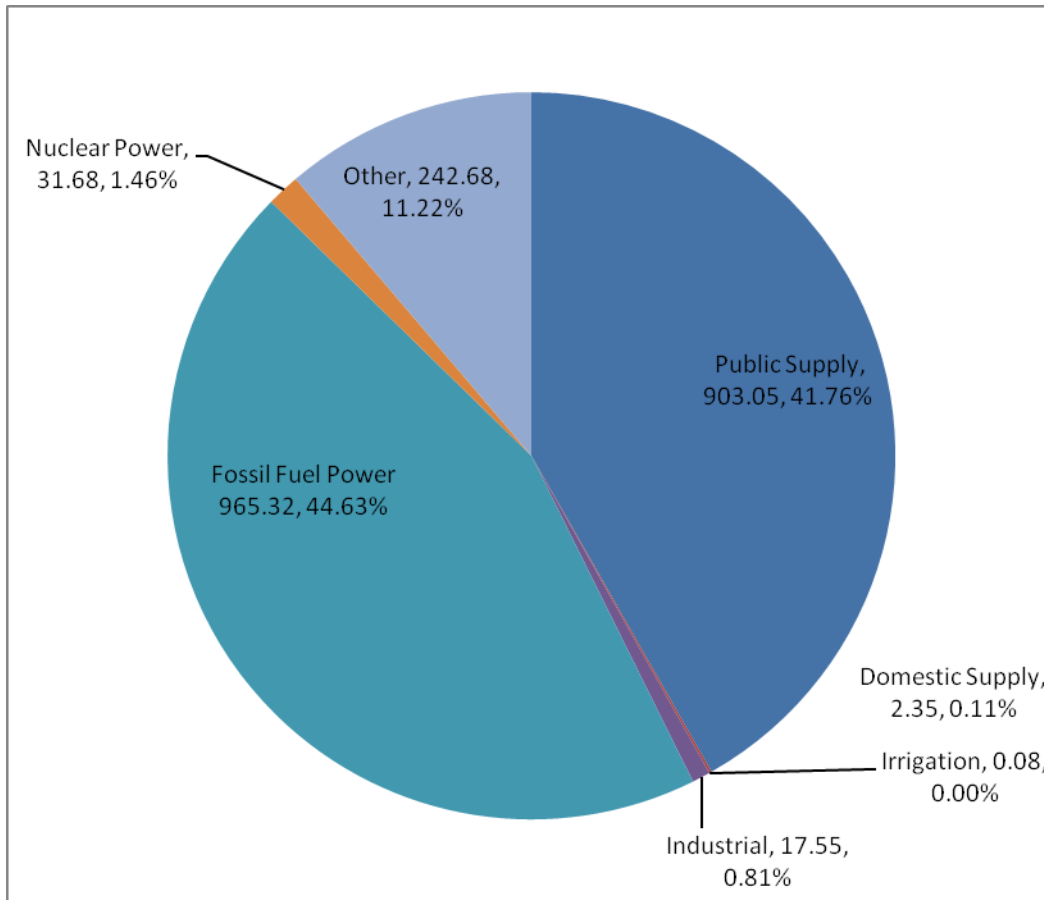


## Illinois

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

**Withdrawals:** Illinois' water withdrawals from Lake Michigan in 2010 totaled 2162.7mgd – a decrease in water usage from 2009 (2,382.1 mgd).

**Figure 5. 2010 Illinois Water Use** (In millions of gallons per day)



**Consumptive Use:** Consumptive use information for the industrial selector was reported at 0.17 mgd.

**Interbasin Diversions:** Total diversions from the Lake Michigan basin in 2010 were 1148.08 mgd, an increase from the 2009 figure (930.76 mgd). Public water supply accounted for about nearly 79 percent of these diversions. All diversions for Illinois are outgoing interbasin diversions –water transferred from the Lake Michigan basin to the Illinois River in the Mississippi River basin.

# JURISDICTION REPORT- Illinois

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d  
Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Lake Michigan</b>							
	Public Supply	903.05	903.05	0.00	903.05	903.05	0.00
	Domestic Supply	2.35	2.35	0.00	2.35	2.35	0.00
	Irrigation	0.08	0.00	0.00	0.08	0.00	0.00
	Livestock						
	Industrial	17.55	0.01	0.17	17.55	0.01	0.17
	Fossil Fuel Power	965.32	0.00	0.00	965.32	0.00	0.00
	Nuclear Power	31.68	0.00	0.00	31.68	0.00	0.00
	Hydroelectric Power						
	Other	242.68	242.68	0.00	242.68	242.68	0.00
	<b>Total:</b>	<b>2162.70</b>	<b>1148.08</b>	<b>0.17</b>	<b>2162.70</b>	<b>1148.08</b>	<b>0.17</b>
<b>Grand Total:</b>		<b>2162.70</b>	<b>1148.08</b>	<b>0.17</b>	<b>2162.70</b>	<b>1148.08</b>	<b>0.17</b>

# JURISDICTION REPORT- Illinois

Withdrawals by Source

Units: Mgal(US)/d

Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Lake Michigan</b>							
	Public Supply	903.05	0.00	0.00	903.05	0.00	0.00
	Domestic Supply	2.35	0.00	0.00	2.35	0.00	0.00
	Irrigation	0.00	0.00	0.08	0.00	0.00	0.08
	Livestock						
	Industrial	17.55	0.00	0.00	17.55	0.00	0.00
	Fossil Fuel Power	965.32	0.00	0.00	965.32	0.00	0.00
	Nuclear Power	31.68	0.00	0.00	31.68	0.00	0.00
	Hydroelectric Power						
	Other	242.68	0.00	0.00	242.68	0.00	0.00
	<b>Total:</b>	<b>2162.61</b>	<b>0.00</b>	<b>0.08</b>	<b>2162.61</b>	<b>0.00</b>	<b>0.08</b>
<b>Grand Total:</b>		<b>2162.61</b>	<b>0.00</b>	<b>0.08</b>	<b>2162.61</b>	<b>0.00</b>	<b>0.08</b>

# JURISDICTION REPORT- Illinois

Jurisdiction Totals

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	903.05	0.00	0.00	903.05	0.00	903.05	0.00
Domestic Supply	2.35	0.00	0.00	2.35	0.00	2.35	0.00
Irrigation	0.00	0.00	0.08	0.08	0.00	0.00	0.00
Livestock							
Industrial	17.55	0.00	0.00	17.55	0.00	0.01	0.17
Fossil Fuel Power	965.32	0.00	0.00	965.32	0.00	0.00	0.00
Nuclear Power	31.68	0.00	0.00	31.68	0.00	0.00	0.00
Hydroelectric Power							
Other	242.68	0.00	0.00	242.68	0.00	242.68	0.00

## Total Report - Principal Facilities

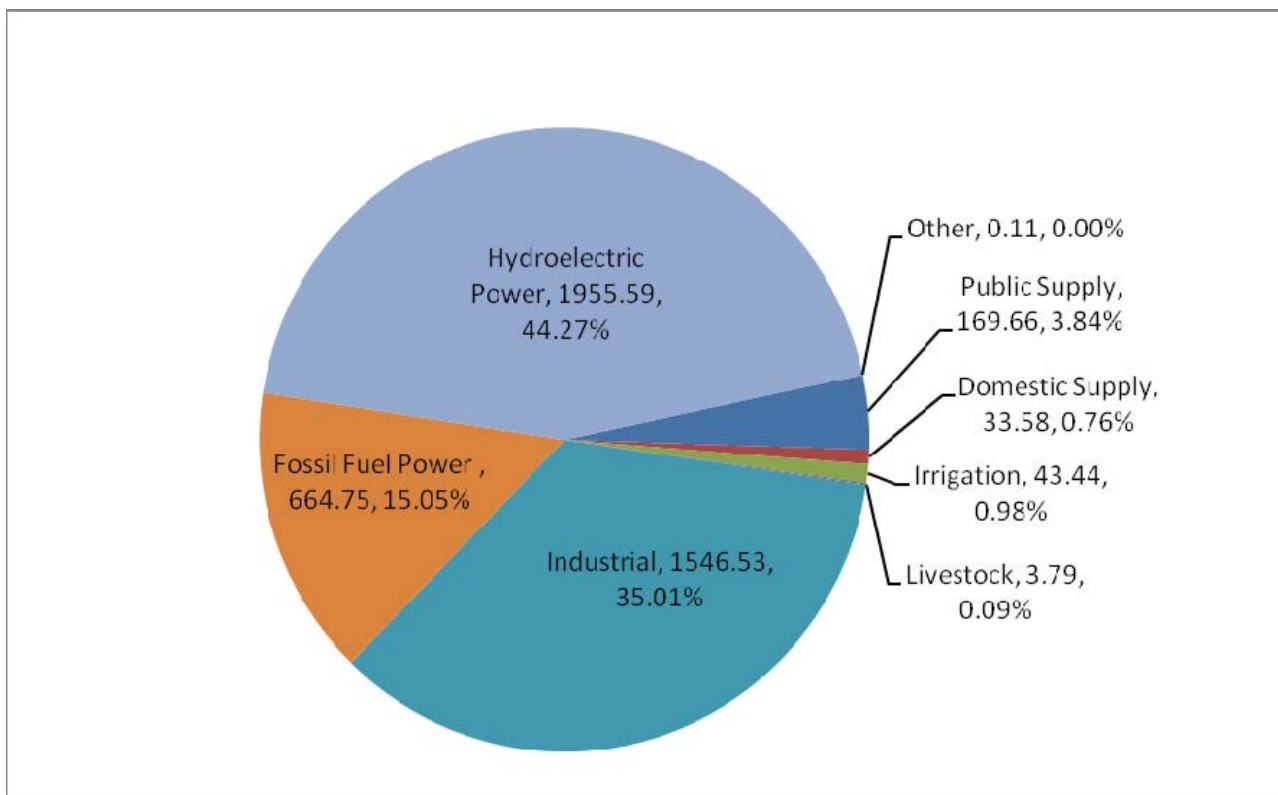
Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	903.05	0.00	0.00	903.05	0.00	903.05	0.00
Domestic Supply	2.35	0.00	0.00	2.35	0.00	2.35	0.00
Irrigation	0.00	0.00	0.08	0.08	0.00	0.00	0.00
Livestock							
Industrial	17.55	0.00	0.00	17.55	0.00	0.01	0.17
Fossil Fuel Power	965.32	0.00	0.00	965.32	0.00	0.00	0.00
Nuclear Power	31.68	0.00	0.00	31.68	0.00	0.00	0.00
Hydroelectric Power							
Other	242.68	0.00	0.00	242.68	0.00	242.68	0.00

## Indiana

**Data Sources:** The Indiana Department of Natural Resources, Division of Water compiled the 2009 water use data for the Indiana Lake Erie and Lake Michigan basins. Please contact Mark Basch at 317/232-0154 or [mbasch@dnr.in.gov](mailto:mbasch@dnr.in.gov) with questions regarding Indiana’s data.

**Withdrawals:** In 2010, total use was 4417.45 mgd compared to the 2009 figure of 2,459.87 mgd. Of this amount, 99 percent of the water used was from the Lake Michigan basin. Industrial was reported as 1538.50 mgd and hydroelectric power, at 1955.59 mgd were the primary uses of Lake Michigan water. The primary use of Lake Erie basin water was public supply, at 38.96 mgd.

**Figure 6. 2010 Indiana Water Use** (In millions of gallons per day)



**Consumptive Use:** The total consumptive use of water in Indiana’s portion of the Great Lakes basin was 178.72 mgd, compared to 172.29 mgd in 2009. In the Lake Michigan basin, industrial water use category was the largest consumptive use, at 51.6 percent (92.31 mgd of a total of 178.72 mgd) and in the Lake Erie basin public supply accounted for all the consumptive use.

**Interbasin Diversions:** Diversions from Lake Michigan include one of 50.84 mgd for public supply and another of 24.32 mgd for industrial use. A diversion from the Lake Erie Basin for public supply uses is 7.23 mgd.

# JURISDICTION REPORT- Indiana

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d  
Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Lake Michigan</b>							
	Public Supply	130.70	50.75	19.61	130.36	50.84	19.56
	Domestic Supply	32.97	0.00	4.95	32.19	0.00	4.83
	Irrigation	41.94	0.00	37.75	41.34	0.00	37.21
	Livestock	3.79	0.00	3.03	3.76	0.00	3.01
	Industrial	1538.50	24.32	92.31	1538.12	24.32	92.29
	Fossil Fuel Power	664.48	0.00	13.29	664.48	0.00	13.29
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	1955.59	0.00	0.00	1955.59	0.00	0.00
	Other	0.11	0.00	0.01	0.07	0.00	0.01
	<b>Total:</b>	<b>4368.08</b>	<b>75.07</b>	<b>170.95</b>	<b>4365.91</b>	<b>75.16</b>	<b>170.20</b>
<b>Lake Erie</b>							
	Public Supply	38.96	7.23	5.84	38.87	7.23	5.83
	Domestic Supply	0.61	0.00	0.09	0.44	0.00	0.07
	Irrigation	1.50	0.00	1.35	1.20	0.00	1.08
	Livestock	0.00	0.00	0.00	0.00	0.00	0.00
	Industrial	8.03	0.00	0.48	7.92	0.00	0.48
	Fossil Fuel Power	0.27	0.00	0.01	0.27	0.00	0.01
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total:</b>	<b>49.37</b>	<b>7.23</b>	<b>7.77</b>	<b>48.70</b>	<b>7.23</b>	<b>7.47</b>
<b>Grand Total:</b>		<b>4417.45</b>	<b>82.30</b>	<b>178.72</b>	<b>4414.61</b>	<b>82.39</b>	<b>177.67</b>

# JURISDICTION REPORT- Indiana

Withdrawals by Source Units: Mgal(US)/d  
Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Lake Michigan</b>							
	Public Supply	88.37	0.00	42.33	88.37	0.00	41.99
	Domestic Supply	0.00	25.67	7.30	0.00	25.64	6.55
	Irrigation	0.00	7.81	34.13	0.00	7.59	33.75
	Livestock	0.00	1.15	2.64	0.00	1.15	2.61
	Industrial	1529.95	2.52	6.03	1529.95	2.52	5.65
	Fossil Fuel Power	664.48	0.00	0.00	664.48	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	1955.59	0.00	0.00	1955.59	0.00
	Other	0.00	0.00	0.11	0.00	0.00	0.07
	<b>Total:</b>	<b>2282.80</b>	<b>1992.74</b>	<b>92.54</b>	<b>2282.80</b>	<b>1992.49</b>	<b>90.62</b>
<b>Lake Erie</b>							
	Public Supply	0.00	32.69	6.27	0.00	32.69	6.18
	Domestic Supply	0.00	0.00	0.61	0.00	0.00	0.44
	Irrigation	0.00	0.42	1.08	0.00	0.29	0.91
	Livestock	0.00	0.00	0.00	0.00	0.00	0.00
	Industrial	0.00	3.50	4.53	0.00	3.50	4.42
	Fossil Fuel Power	0.00	0.00	0.27	0.00	0.00	0.27
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total:</b>	<b>0.00</b>	<b>36.61</b>	<b>12.76</b>	<b>0.00</b>	<b>36.48</b>	<b>12.22</b>
<b>Grand Total:</b>		<b>2282.80</b>	<b>2029.35</b>	<b>105.30</b>	<b>2282.80</b>	<b>2028.97</b>	<b>102.84</b>

# JURISDICTION REPORT- Indiana

Jurisdiction Totals

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	88.37	32.69	48.60	169.66	0.00	57.98	25.45
Domestic Supply	0.00	25.67	7.91	33.58	0.00	0.00	5.04
Irrigation	0.00	8.23	35.21	43.44	0.00	0.00	39.10
Livestock	0.00	1.15	2.64	3.79	0.00	0.00	3.03
Industrial	1529.95	6.02	10.56	1546.53	0.00	24.32	92.79
Fossil Fuel Power	664.48	0.00	0.27	664.75	0.00	0.00	13.30
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	1955.59	0.00	1955.59	0.00	0.00	0.00
Other	0.00	0.00	0.11	0.11	0.00	0.00	0.01

## Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	88.37	32.69	48.17	169.23	0.00	58.07	25.39
Domestic Supply	0.00	25.64	6.99	32.63	0.00	0.00	4.90
Irrigation	0.00	7.88	34.66	42.54	0.00	0.00	38.29
Livestock	0.00	1.15	2.61	3.76	0.00	0.00	3.01
Industrial	1529.95	6.02	10.07	1546.04	0.00	24.32	92.77
Fossil Fuel Power	664.48	0.00	0.27	664.75	0.00	0.00	13.30
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	1955.59	0.00	1955.59	0.00	0.00	0.00
Other	0.00	0.00	0.07	0.07	0.00	0.00	0.01

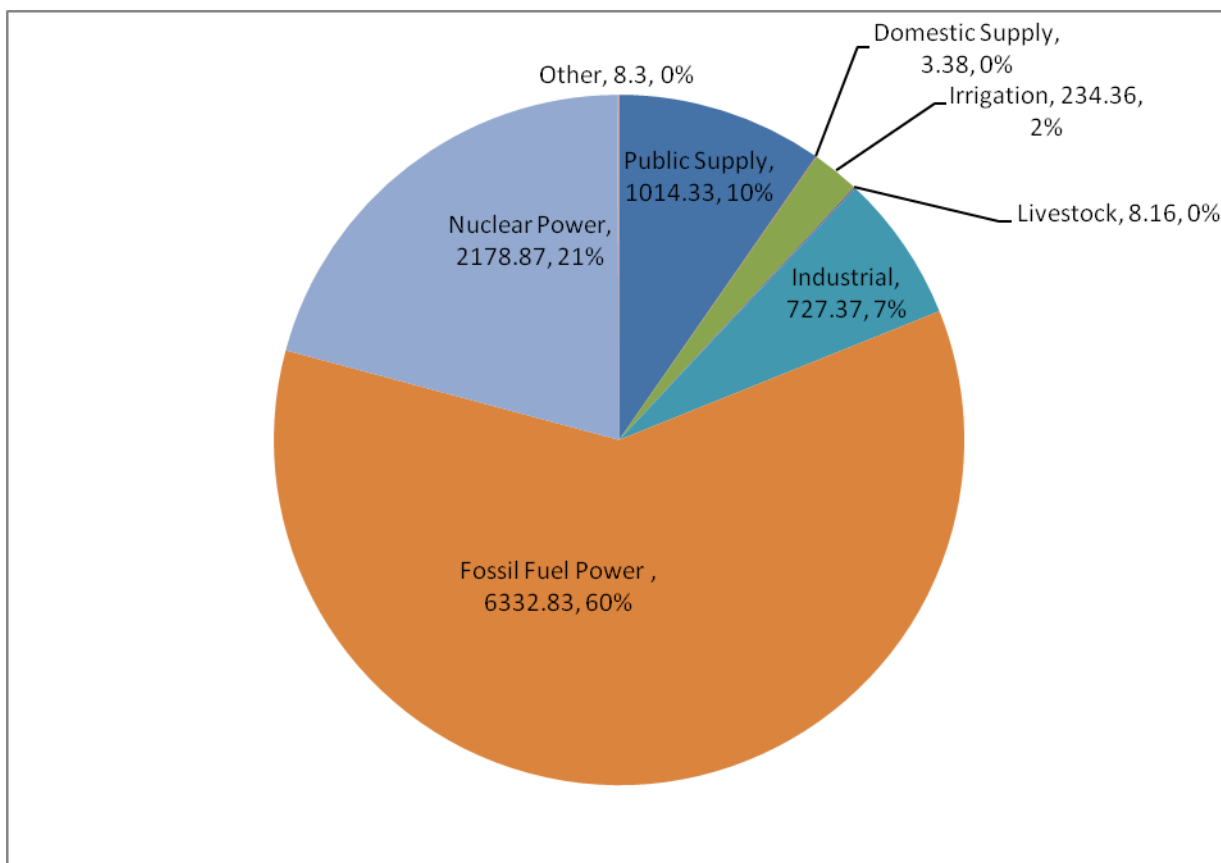


## Michigan

**Data Sources:** The Michigan Department of Environmental Quality (DEQ) submitted water use data for 2010. All data are directly reported to the Michigan DEQ by the facilities within each category except irrigation, which is divided into agricultural and nonagricultural irrigation. Agricultural irrigation use is reported to the Michigan Department of Agriculture and Rural Development and then transmitted to the DEQ. Nonagricultural irrigation facilities (e.g., golf course, park, etc.) report directly to the DEQ. Please contact Andrew LeBaron at 517/241-1435 or lebarona@michigan.gov with questions regarding Michigan’s water use data.

**Withdrawals:** Water withdrawals for the Lake Superior, Lake Michigan, Lake Huron, and Lake Erie basins of Michigan were approximately 10,507.58 mgd, an increase of 10 percent from 2009 (9,559.05 mgd). Of the four basins, the state of Michigan withdraws the most from Lake Erie (5,192.35 mgd) and the least from Lake Superior (229.89 mgd). Fossil fuel power, at 60 percent, was the largest withdrawal category for the state of Michigan.

**Figure 7. 2010 Michigan Water Use** (In millions of gallons per day)



**Consumptive Use:** Consumptive uses in the Michigan portion of the Great Lakes basin were calculated to be approximately 530.36 mgd; irrigation was the largest single consumptive use at 210.92 mgd, or about 40 percent of the total consumptive use.

**Interbasin Diversions:** None reported.

# JURISDICTION REPORT- Michigan

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d  
Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Lake Superior</b>							
	Public Supply	13.37		1.67	12.63		1.58
	Domestic Supply						
	Irrigation	1.02		0.92	0.97		0.87
	Livestock						
	Industrial	4.65		0.47	4.53		0.45
	Fossil Fuel Power	210.84		0.36	210.84		0.36
	Nuclear Power						
	Hydroelectric Power						
	Other						
	<b>Total:</b>	<b>229.89</b>		<b>3.42</b>	<b>228.98</b>		<b>3.26</b>
<b>Lake Michigan</b>							
	Public Supply	253.23		31.65	245.17		30.65
	Domestic Supply	3.17		0.40	2.83		0.35
	Irrigation	191.49		172.34	177.45		159.71
	Livestock	5.43		4.34	2.50		2.00
	Industrial	260.33		26.03	258.82		25.88
	Fossil Fuel Power	1258.83		29.42	1258.82		29.42
	Nuclear Power	2126.14		21.80	2126.14		21.80
	Hydroelectric Power						
	Other	3.81		0.00	3.78		0.00
	<b>Total:</b>	<b>4102.42</b>		<b>285.98</b>	<b>4075.51</b>		<b>269.81</b>
<b>Lake Huron</b>							
	Public Supply	117.27		14.66	114.50		14.31
	Domestic Supply	0.06		0.01			
	Irrigation	23.22		20.90	21.73		19.56
	Livestock	2.07		1.66	1.23		0.98
	Industrial	73.62		7.36	73.27		7.33
	Fossil Fuel Power	766.67		1.30	766.67		1.30
	Nuclear Power						
	Hydroelectric Power						
	Other						
	<b>Total:</b>	<b>982.92</b>		<b>45.89</b>	<b>977.40</b>		<b>43.48</b>

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Lake Erie</b>							
	Public Supply	630.46		78.81	627.24		78.40
	Domestic Supply	0.15		0.02	0.11		0.01
	Irrigation	18.62		16.76	16.09		14.48
	Livestock	0.66		0.53	0.15		0.12
	Industrial	388.76		38.88	388.36		38.84
	Fossil Fuel Power	4096.48		39.83	4096.48		39.83
	Nuclear Power	52.73		20.25	52.73		20.25
	Hydroelectric Power						
	Other	4.49		0.00	4.46		0.00
	<b>Total:</b>	<b>5192.35</b>		<b>195.07</b>	<b>5185.61</b>		<b>191.93</b>
<b>Grand Total:</b>		<b>10507.58</b>		<b>530.36</b>	<b>10467.50</b>		<b>508.49</b>

# JURISDICTION REPORT- Michigan

Withdrawals by Source

Units: Mgal(US)/d  
Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Lake Superior</b>							
	Public Supply	4.93	0.00	8.44	4.93	0.00	7.70
	Domestic Supply						
	Irrigation	0.01	0.48	0.53	0.00	0.47	0.50
	Livestock						
	Industrial	4.53	0.00	0.12	4.53	0.00	0.00
	Fossil Fuel Power	210.84	0.00	0.00	210.84	0.00	0.00
	Nuclear Power						
	Hydroelectric Power						
	Other						
	<b>Total:</b>	<b>220.32</b>	<b>0.48</b>	<b>9.09</b>	<b>220.31</b>	<b>0.47</b>	<b>8.20</b>
<b>Lake Michigan</b>							
	Public Supply	123.75	0.00	129.48	123.75	0.00	121.42
	Domestic Supply	0.00	0.00	3.17	0.00	0.00	2.83
	Irrigation	0.27	54.14	137.08	0.24	48.95	128.26
	Livestock	0.00	1.12	4.30	0.00	1.07	1.43
	Industrial	46.99	136.47	76.87	46.97	136.42	75.43
	Fossil Fuel Power	761.22	495.25	2.35	761.22	495.25	2.34
	Nuclear Power	2126.14	0.00	0.00	2126.14	0.00	0.00
	Hydroelectric Power						
	Other	0.00	0.00	3.81	0.00	0.00	3.78
	<b>Total:</b>	<b>3058.37</b>	<b>686.99</b>	<b>357.06</b>	<b>3058.33</b>	<b>681.69</b>	<b>335.48</b>
<b>Lake Huron</b>							
	Public Supply	94.41	1.03	21.83	94.19	1.03	19.28
	Domestic Supply	0.00	0.00	0.06			
	Irrigation	0.14	11.68	11.40	0.10	10.67	10.97
	Livestock	0.00	0.71	1.36	0.00	0.71	0.52
	Industrial	15.90	36.73	20.99	15.90	36.67	20.71
	Fossil Fuel Power	166.86	598.97	0.84	166.86	598.97	0.84
	Nuclear Power						
	Hydroelectric Power						
	Other						
	<b>Total:</b>	<b>277.31</b>	<b>649.12</b>	<b>56.49</b>	<b>277.05</b>	<b>648.04</b>	<b>52.31</b>

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Lake Erie</b>							
	Public Supply	577.72	18.70	34.04	577.72	18.60	30.92
	Domestic Supply	0.00	0.00	0.15	0.00	0.00	0.11
	Irrigation	0.22	10.64	7.77	0.14	9.21	6.74
	Livestock	0.00	0.22	0.44	0.00	0.15	0.00
	Industrial	343.51	15.03	30.22	343.51	14.96	29.88
	Fossil Fuel Power	3953.15	143.21	0.12	3953.15	143.21	0.12
	Nuclear Power	52.73	0.00	0.00	52.73	0.00	0.00
	Hydroelectric Power						
	Other	0.00	2.19	2.31	0.00	2.19	2.28
	<b>Total:</b>	<b>4927.32</b>	<b>189.99</b>	<b>75.05</b>	<b>4927.24</b>	<b>188.32</b>	<b>70.05</b>
<b>Grand Total:</b>		<b>8483.32</b>	<b>1526.58</b>	<b>497.69</b>	<b>8482.93</b>	<b>1518.53</b>	<b>466.04</b>

# JURISDICTION REPORT- Michigan

Jurisdiction Totals

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	800.81	19.72	193.80	1014.33	0.00	126.79	
Domestic Supply	0.00	0.00	3.38	3.38		0.42	
Irrigation	0.63	76.94	156.78	234.36		210.92	
Livestock	0.00	2.05	6.11	8.16		6.53	
Industrial	410.93	188.23	128.21	727.37		72.74	
Fossil Fuel Power	5092.08	1237.44	3.31	6332.83		70.91	
Nuclear Power	2178.87	0.00	0.00	2178.87		42.05	
Hydroelectric Power							
Other	0.00	2.19	6.11	8.30		0.00	

## Total Report - Principal Facilities

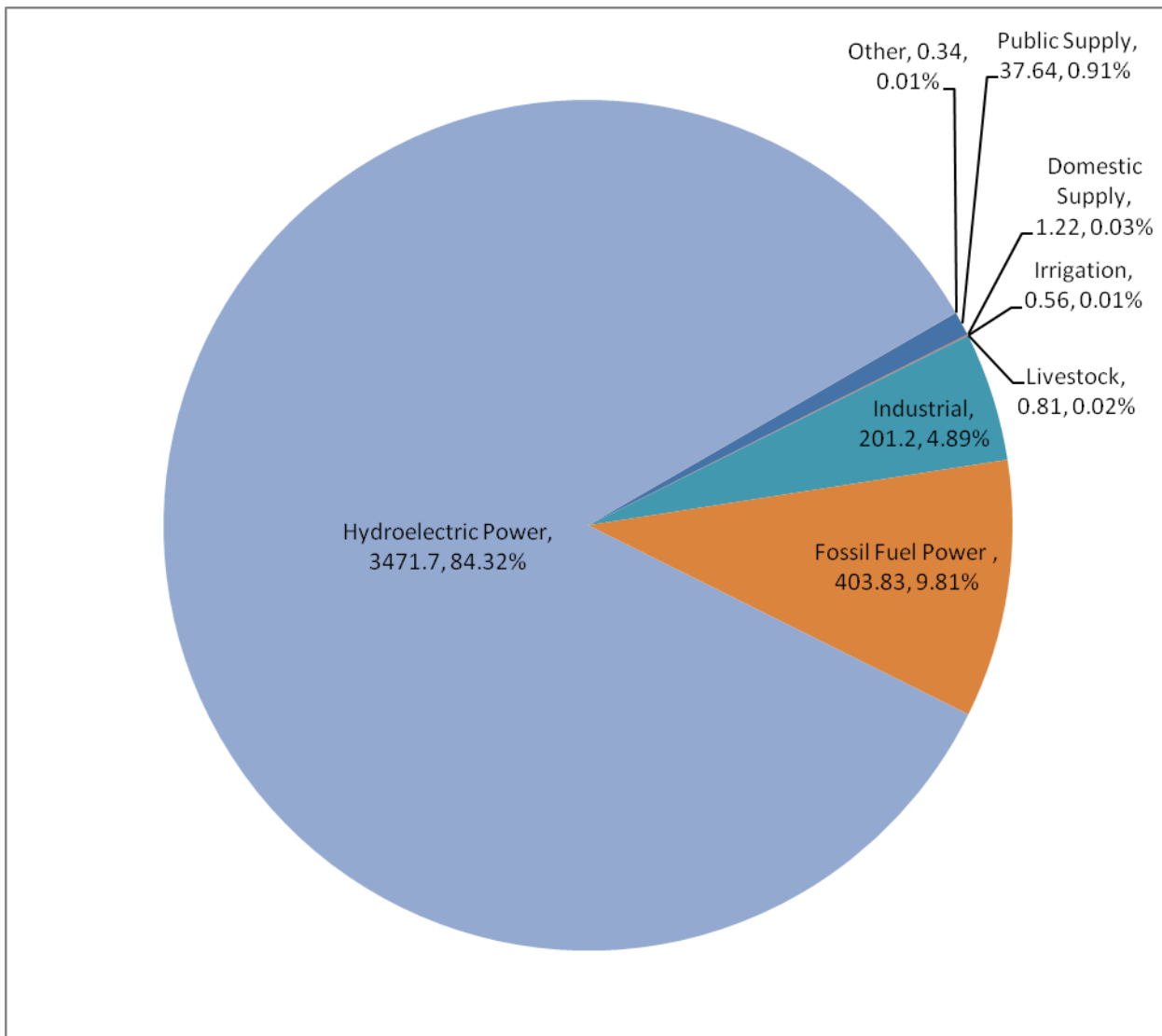
Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	800.59	19.63	179.32	999.54	0.01	124.94	
Domestic Supply	0.00	0.00	2.94	2.94		0.37	
Irrigation	0.48	69.30	146.47	216.24		194.62	
Livestock	0.00	1.93	1.94	3.87		3.10	
Industrial	410.91	188.05	126.02	724.99		72.50	
Fossil Fuel Power	5092.08	1237.44	3.30	6332.82		70.91	
Nuclear Power	2178.87	0.00	0.00	2178.87		42.05	
Hydroelectric Power							
Other	0.00	2.19	6.05	8.24		0.00	

## Minnesota

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

**Withdrawals:** Total water use from the Minnesota portion of the Lake Superior basin was 4,117.12 mgd. Water used for hydroelectric power generation purposes (3,471.70 mgd), accounted for nearly 84 percent of Minnesota’s total water use in 2010. Excluding hydroelectric power, industrial and fossil fuel power accounted for the largest uses, together accounting for 94 percent of the total.

**Figure 8. 2010 Minnesota Water Use** (In millions of gallons per day)



**Consumptive Use:** The largest consumptive use was calculated to be industrial, at 20.12 mgd, or 60 percent of total consumption (33.29 mgd).

**Interbasin Diversions:** A diversion of 8.51 mgd was reported for industrial use.

# JURISDICTION REPORT- Minnesota

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d  
Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Lake Superior</b>							
	Public Supply	37.64	0.00	3.76	37.37	0.00	3.74
	Domestic Supply	1.22	0.00	0.12	1.15	0.00	0.11
	Irrigation	0.56	0.03	0.49	0.00	0.00	0.00
	Livestock	0.81	0.00	0.72	0.74	0.00	0.67
	Industrial	201.20	8.51	20.12	200.86	8.51	20.09
	Fossil Fuel Power	403.83	0.00	8.08	403.82	0.00	8.08
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	3471.70	0.00	0.00	3471.70	0.00	0.00
	Other	0.16	0.00	0.00	0.14	0.00	0.00
	<b>Total:</b>	<b>4117.12</b>	<b>8.54</b>	<b>33.29</b>	<b>4115.78</b>	<b>8.51</b>	<b>32.69</b>
<b>Grand Total:</b>		<b>4117.12</b>	<b>8.54</b>	<b>33.29</b>	<b>4115.78</b>	<b>8.51</b>	<b>32.69</b>



# JURISDICTION REPORT- Minnesota

Withdrawals by Source

Units: Mgal(US)/d

Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Lake Superior</b>							
	Public Supply	30.61	1.81	5.22	30.61	1.80	4.96
	Domestic Supply	0.75	0.43	0.04	0.72	0.43	0.00
	Irrigation	0.06	0.45	0.05	0.00	0.00	0.00
	Livestock	0.81	0.00	0.00	0.74	0.00	0.00
	Industrial	123.96	77.11	0.13	123.87	76.88	0.11
	Fossil Fuel Power	245.30	158.52	0.01	245.30	158.52	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	3471.70	0.00	0.00	3471.70	0.00
	Other	0.00	0.00	0.16	0.00	0.00	0.14
	<b>Total:</b>	<b>401.49</b>	<b>3710.02</b>	<b>5.61</b>	<b>401.24</b>	<b>3709.33</b>	<b>5.21</b>
<b>Grand Total:</b>		<b>401.49</b>	<b>3710.02</b>	<b>5.61</b>	<b>401.24</b>	<b>3709.33</b>	<b>5.21</b>

# JURISDICTION REPORT- Minnesota

Jurisdiction Totals

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	30.61	1.81	5.22	37.64	0.00	0.00	3.76
Domestic Supply	0.75	0.43	0.04	1.22	0.00	0.00	0.12
Irrigation	0.06	0.45	0.05	0.56	0.00	0.03	0.49
Livestock	0.81	0.00	0.00	0.81	0.00	0.00	0.72
Industrial	123.96	77.11	0.13	201.20	0.00	8.51	20.12
Fossil Fuel Power	245.30	158.52	0.01	403.83	0.00	0.00	8.08
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	3471.70	0.00	3471.70	0.00	0.00	0.00
Other	0.00	0.00	0.16	0.16	0.00	0.00	0.00

## Total Report - Principal Facilities

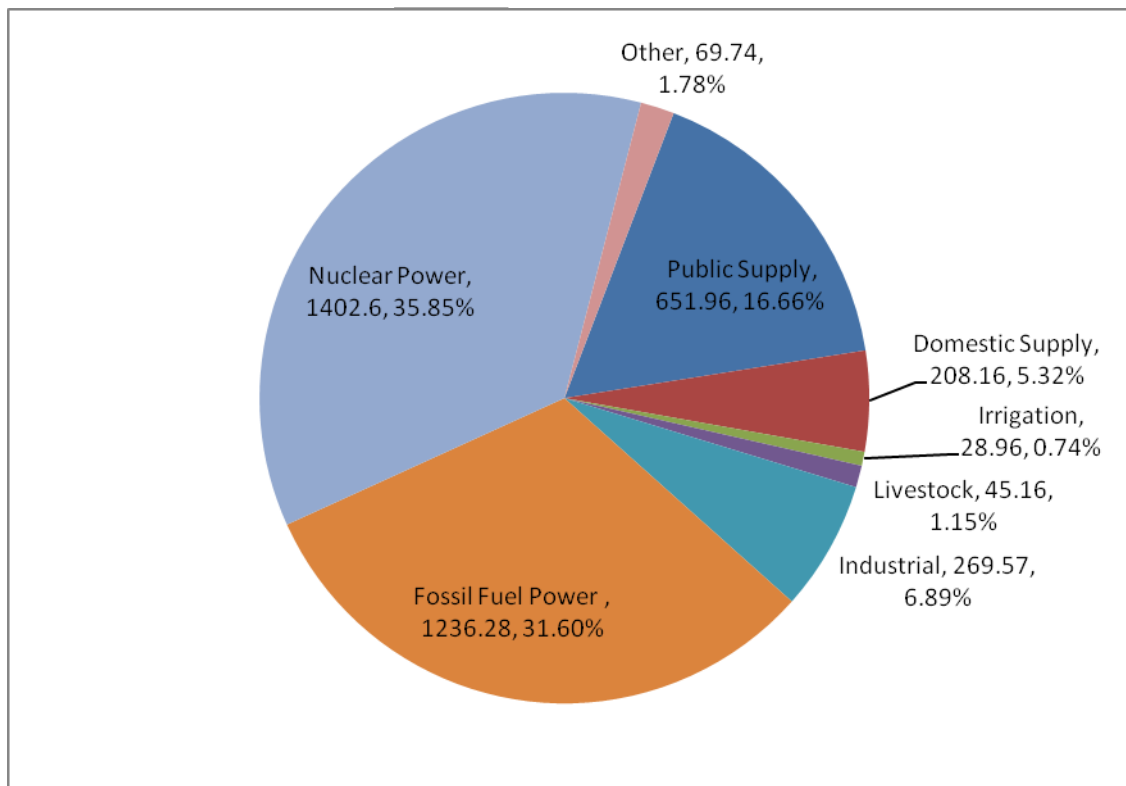
Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	30.61	1.80	4.96	37.37	0.00	0.00	3.74
Domestic Supply	0.72	0.43	0.00	1.15	0.00	0.00	0.11
Irrigation	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Livestock	0.74	0.00	0.00	0.74	0.00	0.00	0.67
Industrial	123.87	76.88	0.11	200.86	0.00	8.51	20.09
Fossil Fuel Power	245.30	158.52	0.00	403.82	0.00	0.00	8.08
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	3471.70	0.00	3471.70	0.00	0.00	0.00
Other	0.00	0.00	0.14	0.14	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 2010, New York’s total water use was 312,649.43 mgd. Total withdrawals, not including hydroelectric power, were 3,912.43 mgd. Hydroelectric power uses of 308,737 mgd represented 98.7 percent of total withdrawals in New York. The next largest categories of use were fossil fuel and nuclear power.

**Figure 9. 2010 New York Water Use** (In millions of gallons per day)  
*Excludes hydroelectric power.*



**Consumptive Use:** New York reported total consumptive uses of 354.19 mgd. Lake Ontario comprised 233.36 mgd or 66 percent; Lake Erie comprised 90.48 mgd or 25.5 percent; the St. Lawrence River comprised 30.35 mgd or 85 percent. The largest categories of consumptive use were nuclear power (70.13 mgd) and public supply (65.20 mgd), both uses are 38 percent of total consumptive use.

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

**Intrabasin Diversions:** No intrabasin diversions were reported.

# JURISDICTION REPORT- New York

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d  
Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Lake Erie</b>							
	Public Supply	262.07	0.00	26.21		0.00	
	Domestic Supply	44.34	0.00	4.43		0.00	
	Irrigation	1.81	0.00	1.63			
	Livestock	8.86	0.00	7.98		0.00	
	Industrial	147.04	0.00	36.85	146.17	0.00	36.63
	Fossil Fuel Power	664.43	0.00	13.29	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	44081.00	0.00	0.00	44081.00	0.00	0.00
	Other	0.93	0.00	0.09	0.93	0.00	0.09
	<b>Total:</b>	<b>45210.48</b>	<b>0.00</b>	<b>90.48</b>	<b>44228.10</b>	<b>0.00</b>	<b>36.72</b>
<b>Lake Ontario</b>							
	Public Supply	341.58	9.59	34.16		9.59	0.00
	Domestic Supply	141.81	0.00	14.18		0.00	
	Irrigation	26.07	0.00	23.46	24.06	0.00	21.65
	Livestock	21.27	0.00	19.14		0.00	
	Industrial	90.26	0.00	22.57	90.26	0.00	22.56
	Fossil Fuel Power	571.84	0.00	11.44	309.54	0.00	6.19
	Nuclear Power	1402.60	0.00	70.13	1402.60	0.00	70.13
	Hydroelectric Power	80908.00	0.00	0.00	0.00	0.00	0.00
	Other	61.22	32.00	38.28	61.22	32.00	38.28
	<b>Total:</b>	<b>83564.65</b>	<b>41.59</b>	<b>233.36</b>	<b>1887.68</b>	<b>41.59</b>	<b>158.81</b>
<b>St. Lawrence River</b>							
	Public Supply	48.31	0.00	4.83		0.00	
	Domestic Supply	22.01	0.00	2.20	8.54	0.00	0.85
	Irrigation	1.08	0.00	0.97	1.08	0.00	0.97
	Livestock	15.03	0.00	13.52		0.00	
	Industrial	32.27	0.00	8.07	28.89	0.00	7.22
	Fossil Fuel Power	0.01	0.00	0.00	0.01	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	183748.00	0.00	0.00	85056.00	0.00	0.00
	Other	7.59	0.00	0.76	7.59	0.00	0.76
	<b>Total:</b>	<b>183874.30</b>	<b>0.00</b>	<b>30.35</b>	<b>85102.11</b>	<b>0.00</b>	<b>9.80</b>
<b>Grand Total:</b>		<b>312649.43</b>	<b>41.59</b>	<b>354.19</b>	<b>131217.89</b>	<b>41.59</b>	<b>205.33</b>

# JURISDICTION REPORT- New York

Withdrawals by Source

Units: Mgal(US)/d

Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Lake Erie</b>							
	Public Supply	181.54	74.46	6.07			
	Domestic Supply	22.96	3.36	18.02			
	Irrigation	0.15	0.23	1.43			
	Livestock	0.91	2.92	5.03			
	Industrial	142.04	0.87	4.13	142.04	0.00	4.13
	Fossil Fuel Power	664.43	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	44081.00	0.00	0.00	44081.00	0.00	0.00
	Other	0.00	0.93	0.00	0.00	0.93	0.00
	<b>Total:</b>	<b>45093.03</b>	<b>82.77</b>	<b>34.68</b>	<b>44223.04</b>	<b>0.93</b>	<b>4.13</b>
<b>Lake Ontario</b>							
	Public Supply	162.94	152.56	26.08			
	Domestic Supply	29.33	71.79	40.69			
	Irrigation	0.00	24.06	2.01	0.00	24.06	0.00
	Livestock	3.91	7.56	9.80			
	Industrial	14.60	66.93	8.73	14.60	66.93	8.73
	Fossil Fuel Power	262.30	309.54	0.00	0.00	309.54	0.00
	Nuclear Power	1402.60	0.00	0.00	1402.60	0.00	0.00
	Hydroelectric Power	0.00	80908.00	0.00	0.00	0.00	0.00
	Other	0.00	60.18	1.04	0.00	60.18	1.04
	<b>Total:</b>	<b>1875.68</b>	<b>81600.62</b>	<b>88.35</b>	<b>1417.20</b>	<b>460.71</b>	<b>9.77</b>
<b>St. Lawrence River</b>							
	Public Supply	7.88	35.95	4.48			
	Domestic Supply	0.00	8.54	13.47	0.00	8.54	0.00
	Irrigation	0.00	1.08	0.00	0.00	1.08	0.00
	Livestock	0.38	10.56	4.09			
	Industrial	2.13	26.76	3.38	2.13	26.76	0.00
	Fossil Fuel Power	0.01	0.00	0.00	0.01	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	85056.00	98692.00	0.00	85056.00	0.00	0.00
	Other	0.00	7.20	0.39	0.00	7.20	0.39
	<b>Total:</b>	<b>85066.40</b>	<b>98782.09</b>	<b>25.81</b>	<b>85058.14</b>	<b>43.58</b>	<b>0.39</b>
<b>Grand Total:</b>		<b>132035.11</b>	<b>180465.48</b>	<b>148.84</b>	<b>130698.38</b>	<b>505.22</b>	<b>14.29</b>

# JURISDICTION REPORT- New York

Jurisdiction Totals

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	352.36	262.97	36.63	651.96	0.00	9.59	65.20
Domestic Supply	52.29	83.69	72.18	208.16	0.00	0.00	20.81
Irrigation	0.15	25.37	3.44	28.96	0.00	0.00	26.06
Livestock	5.20	21.04	18.92	45.16	0.00	0.00	40.64
Industrial	158.77	94.56	16.24	269.57	0.00	0.00	67.48
Fossil Fuel Power	926.74	309.54	0.00	1236.28	0.00	0.00	24.73
Nuclear Power	1402.60	0.00	0.00	1402.60	0.00	0.00	70.13
Hydroelectric Power	129137.00	179600.00	0.00	308737.00	0.00	0.00	0.00
Other	0.00	68.31	1.43	69.74	0.00	32.00	39.13

## Total Report - Principal Facilities

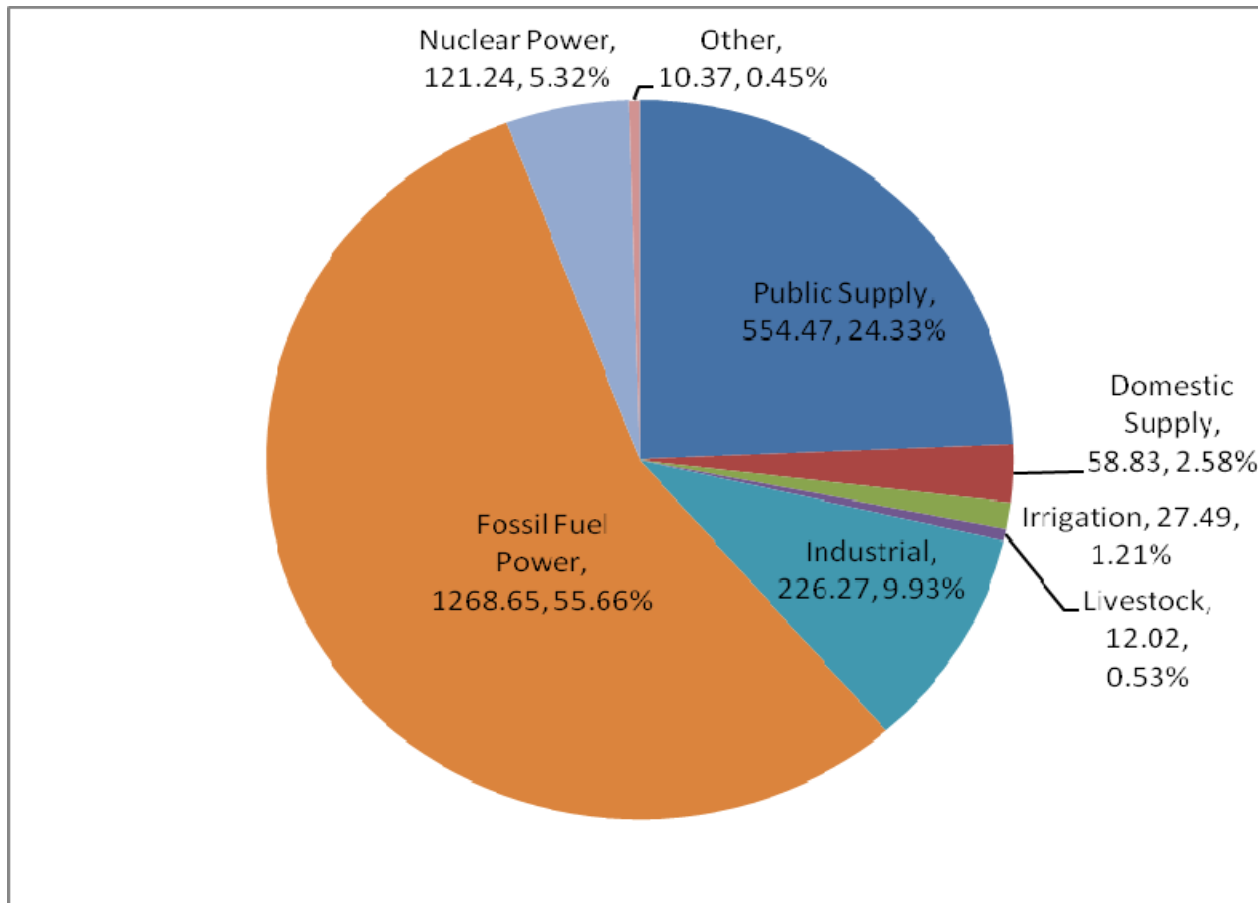
Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply					0.00	9.59	0.00
Domestic Supply	0.00	8.54	0.00	8.54	0.00	0.00	0.85
Irrigation	0.00	25.14	0.00	25.14	0.00	0.00	22.62
Livestock					0.00	0.00	
Industrial	158.77	93.69	12.86	265.32	0.00	0.00	66.41
Fossil Fuel Power	0.01	309.54	0.00	309.55	0.00	0.00	6.19
Nuclear Power	1402.60	0.00	0.00	1402.60	0.00	0.00	70.13
Hydroelectric Power	129137.00	0.00	0.00	129137.00	0.00	0.00	0.00
Other	0.00	68.31	1.43	69.74	0.00	32.00	39.13

## Ohio

**Data Sources:** Water use data for Ohio are collected by the Ohio Department of Natural Resources-Division of Soil & Water Resources, 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 water use data.

**Withdrawals:** Total withdrawals from the Ohio Lake Erie basin for 2010 were 2,279.34 mgd. Fossil fuel power was by far the largest use of water at 1,268.65 mgd (55.6%); public supply was the second largest withdrawal at 554.47 mgd (24.3%).

**Figure 10. 2010 Ohio Water Use** (In millions of gallons per day)



**Consumptive Use:** Total consumptive uses were calculated to be 173.53 mgd. Public supply represents the largest consumptive use sector at 83.17 mgd and accounts for 46 percent of the total. The next three largest consumptive use categories were irrigation at 24.74 mgd, industrial at 18.17 mgd, and fossil fuel power at 12.69 mgd.

**Interbasin Diversions:** Two permitted Lake Erie basin diversions provided drinking water to service areas outside the basin without return, resulting in total outgoing diversions of 0.32 mgd. Releases from the Ohio & Erie Canal into the Lake Erie basin resulted in incoming diversions of 7.69 mgd.

# JURISDICTION REPORT- Ohio

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d  
Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Lake Erie</b>							
	Public Supply	554.47	0.32	83.17	550.69	0.32	82.60
	Domestic Supply	58.83	0.00	8.82	0.40	0.00	0.06
	Irrigation	27.49	0.00	24.74	24.48	0.00	22.04
	Livestock	12.02	0.00	9.61	0.62	0.00	0.49
	Industrial	226.27	0.00	18.17	225.65	0.00	18.11
	Fossil Fuel Power	1268.65	0.00	12.69	1268.65	0.00	12.69
	Nuclear Power	121.24	0.00	12.12	121.24	0.00	12.12
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	10.37	-7.69	4.21	10.28	-7.69	4.17
	<b>Total:</b>	<b>2279.34</b>	<b>-7.37</b>	<b>173.53</b>	<b>2202.01</b>	<b>-7.37</b>	<b>152.28</b>
<b>Grand Total:</b>		<b>2279.34</b>	<b>-7.37</b>	<b>173.53</b>	<b>2202.01</b>	<b>-7.37</b>	<b>152.28</b>



# JURISDICTION REPORT- Ohio

Withdrawals by Source

Units: Mgal(US)/d  
Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Lake Erie</b>							
	Public Supply	406.55	113.25	34.67	406.55	113.13	31.01
	Domestic Supply	0.40	0.00	58.43	0.40	0.00	0.00
	Irrigation	0.44	22.49	4.56	0.43	20.99	3.06
	Livestock	0.00	1.48	10.54	0.00	0.42	0.20
	Industrial	60.42	114.99	50.86	60.42	114.87	50.36
	Fossil Fuel Power	712.52	556.13	0.00	712.52	556.13	0.00
	Nuclear Power	121.24	0.00	0.00	121.24	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.90	8.84	0.63	0.90	8.83	0.55
	<b>Total:</b>	<b>1302.47</b>	<b>817.18</b>	<b>159.69</b>	<b>1302.46</b>	<b>814.37</b>	<b>85.18</b>
<b>Grand Total:</b>		<b>1302.47</b>	<b>817.18</b>	<b>159.69</b>	<b>1302.46</b>	<b>814.37</b>	<b>85.18</b>

# JURISDICTION REPORT- Ohio

Jurisdiction Totals

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	406.55	113.25	34.67	554.47	0.00	0.32	83.17
Domestic Supply	0.40	0.00	58.43	58.83	0.00	0.00	8.82
Irrigation	0.44	22.49	4.56	27.49	0.00	0.00	24.74
Livestock	0.00	1.48	10.54	12.02	0.00	0.00	9.61
Industrial	60.42	114.99	50.86	226.27	0.00	0.00	18.17
Fossil Fuel Power	712.52	556.13	0.00	1268.65	0.00	0.00	12.69
Nuclear Power	121.24	0.00	0.00	121.24	0.00	0.00	12.12
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.90	8.84	0.63	10.37	0.00	-7.69	4.21

## Total Report - Principal Facilities

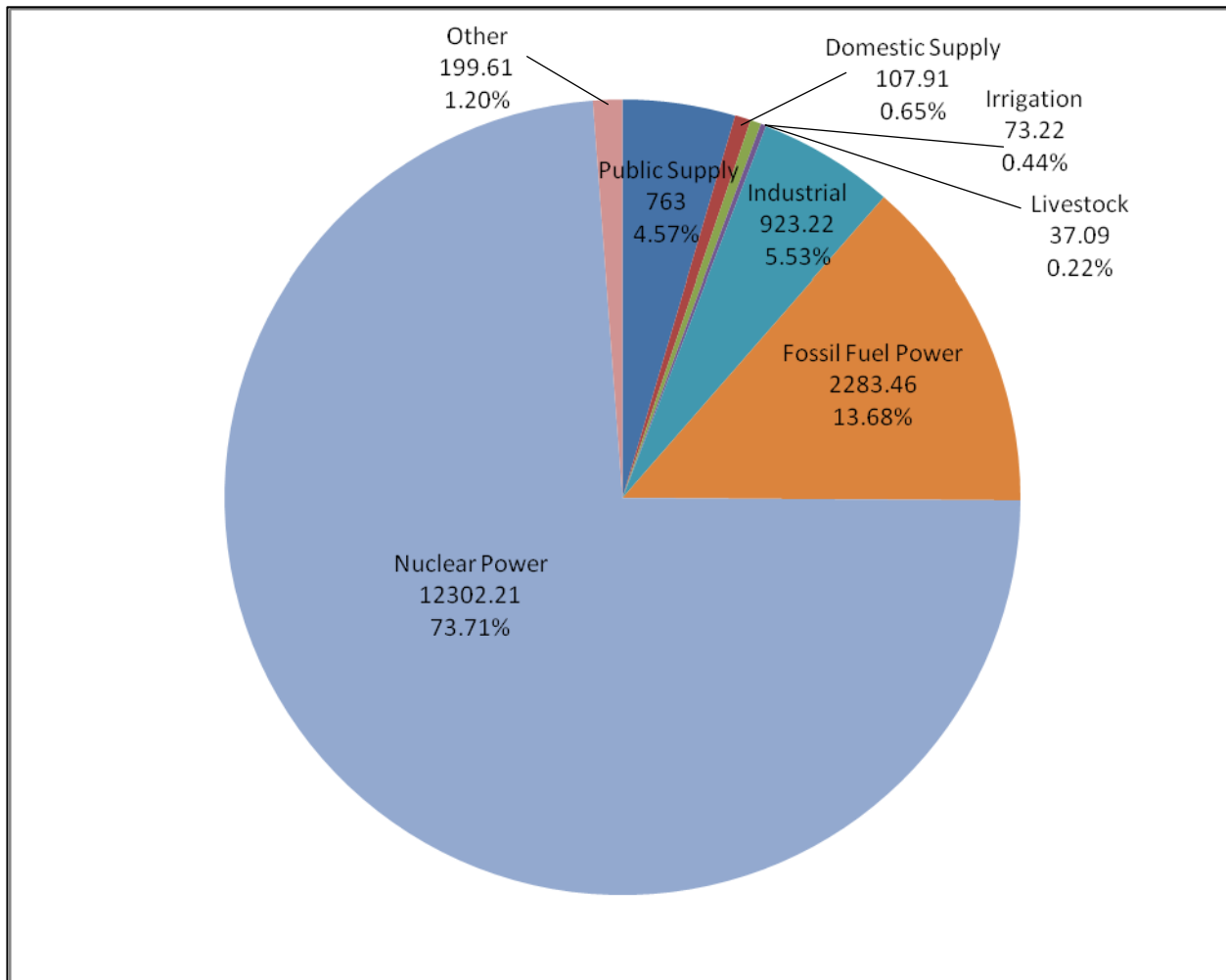
Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	406.55	113.13	31.01	550.69	0.00	0.32	82.60
Domestic Supply	0.40	0.00	0.00	0.40	0.00	0.00	0.06
Irrigation	0.43	20.99	3.06	24.48	0.00	0.00	22.04
Livestock	0.00	0.42	0.20	0.62	0.00	0.00	0.49
Industrial	60.42	114.87	50.36	225.65	0.00	0.00	18.11
Fossil Fuel Power	712.52	556.13	0.00	1268.65	0.00	0.00	12.69
Nuclear Power	121.24	0.00	0.00	121.24	0.00	0.00	12.12
Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.90	8.83	0.55	10.28	0.00	-7.69	4.17

## Ontario

**Data Sources:** Data Sources: Water use data reporting for Ontario was coordinated by the Ontario Ministry of Natural Resources. Hydropower data was updated using 2010 data. For thermoelectric and nuclear water use, inter-basin diversions and intra-basin transfer reporting 2009 data were used. Calendar year 2000-01 data are used for all other sectors.

Please contact Jonathan Staples at Jonathan.Staples@ontario.ca, Ontario Ministry of Natural Resources with questions regarding Ontario’s regional water use data reporting.

**Figure 11. 2010 Ontario Water Use** (In millions of gallons per day)



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:** The reported 2010, Great Lakes water uses for were approximately 80,119.5 mgd. However, hydroelectric withdrawals represented more than 94.5 percent of the total, leaving total use at 286,595.75mgd. Thermoelectric—nuclear plant uses (not including hydropower) were the largest at 73.7 percent (12,302.21 mgd).

**Consumptive Use:** Total consumptive uses were calculated to be 320.06 mgd. Public supply represents the largest consumptive use sector at 114.45 mgd and accounts for 35.7 percent of the total. The next two largest consumptive uses were nuclear power and industrial use, at 110.72 mgd and 58.16 mgd respectively.

**Interbasin Diversions:** Ontario reported incoming interbasin diversions into the Lake Superior basin from the Hudson Bay basin for hydroelectric purposes (the Ogoki and Long Lac projects) amounting to 4,007.75 mgd.

**Intrabasin Diversions:** Summarized in the table below are intrabasin diversions that occurred between lakes Huron, Erie and Ontario.

**Table 1: Intrabasin Diversions in Ontario**

Name of Originating Watershed	Amount in mgd
Erie	5,174.1 (Other – seaway)
Huron	42.7 (Public Supply)
Ontario	3.2 (Public Supply)

**Table 2: Hydropower Use in Ontario in MLD**

	2009	2010
Erie GLSW	0	0
Erie OSW	2,121	2,121
<b>Erie Total</b>	<b>2,121</b>	<b>2,121</b>
Huron GLSW	72,662	72,662
Huron OSW	80,394	66,208
<b>Huron Total</b>	<b>153,057</b>	<b>138,870</b>
Ontario GLSW	142,525	141,065
Ontario OSW	55,653	48,640
<b>Ontario Total</b>	<b>198,179</b>	<b>189,705</b>
Superior GLSW	0	0
Superior OSW	136,339	92,059
<b>Superior Total</b>	<b>136,339</b>	<b>92,059</b>
SLR GLSW	323,473	291,367
SLR OSW	271,715	195,485
<b>SLR Total</b>	<b>595,188</b>	<b>486,852</b>
Total GLSW	538,661	505,095
Total OSW	546,223	404,513
<b>Total All</b>	<b>1,084,884</b>	<b>909,607</b>

GLSW- Great Lakes Surface Water

OSW – Other Surface Water

Note: The proceeding tables do not reflect the 2010 hydroelectric data as shown in Table 2 above but rather those for 2009.

# JURISDICTION REPORT- Ontario

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d  
Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Lake Superior</b>							
	Public Supply	45.77	0.00	6.87	45.58	0.00	6.84
	Domestic Supply	1.75	0.00	0.26	0.00	0.00	0.00
	Irrigation	0.37	0.00			0.00	
	Livestock	0.14	0.00			0.00	
	Industrial	162.12	0.00	10.21	0.00	0.00	0.00
	Fossil Fuel Power	81.06	0.00	0.73	81.06	0.00	0.73
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	36016.95	-4007.75	0.00	36016.95	0.00	0.00
	Other		0.00			0.00	
	<b>Total:</b>	<b>36308.17</b>	<b>-4007.75</b>	<b>18.07</b>	<b>36143.59</b>	<b>0.00</b>	<b>7.57</b>
<b>Lake Huron</b>							
	Public Supply	84.37	0.00	12.65	81.66	0.00	12.25
	Domestic Supply	10.61	0.00	1.59	0.00	0.00	0.00
	Irrigation	20.91	0.00			0.00	
	Livestock	12.41	0.00			0.00	
	Industrial	190.19	0.00	11.98	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	5695.74	0.00	51.26	5695.74	0.00	51.26
	Hydroelectric Power	40433.38	0.00	0.00	40433.38	0.00	0.00
	Other	47.97	0.00	0.00	47.97	0.00	0.00
	<b>Total:</b>	<b>46495.59</b>	<b>0.00</b>	<b>77.49</b>	<b>46258.75</b>	<b>0.00</b>	<b>63.51</b>
<b>Lake Erie</b>							
	Public Supply	93.89	0.00	14.08	92.84	0.00	13.92
	Domestic Supply	19.94	0.00	2.99	0.00	0.00	0.00
	Irrigation	31.85	0.00			0.00	
	Livestock	13.22	0.00			0.00	
	Industrial	180.45	0.00	11.37	0.00	0.00	0.00
	Fossil Fuel Power	1479.36	0.00	13.31	1479.36	0.00	13.31
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	560.31	0.00	0.00	560.31	0.00	0.00
	Other		0.00			0.00	
	<b>Total:</b>	<b>2379.03</b>	<b>0.00</b>	<b>41.76</b>	<b>2132.51</b>	<b>0.00</b>	<b>27.24</b>

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Lake Ontario</b>							
	Public Supply	465.93	0.00	69.89	464.62	0.00	69.69
	Domestic Supply	64.17	0.00	9.63	0.00	0.00	0.00
	Irrigation	17.73	0.00			0.00	
	Livestock	5.40	0.00			0.00	
	Industrial	229.64	0.00	14.47	0.00	0.00	0.00
	Fossil Fuel Power	723.03	0.00	6.51	723.03	0.00	6.51
	Nuclear Power	6606.47	0.00	59.46	6606.47	0.00	59.46
	Hydroelectric Power	52353.09	0.00	0.00	52353.09	0.00	0.00
	Other	132.35	0.00	0.00	132.35	0.00	0.00
	<b>Total:</b>	<b>60597.81</b>	<b>0.00</b>	<b>159.95</b>	<b>60279.56</b>	<b>0.00</b>	<b>135.66</b>
<b>St. Lawrence River</b>							
	Public Supply	73.03	0.00	10.96	72.08	0.00	10.82
	Domestic Supply	11.45	0.00	1.72	0.00	0.00	0.00
	Irrigation	2.35	0.00			0.00	
	Livestock	5.91	0.00			0.00	
	Industrial	160.81	0.00	10.13	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	157232.03	0.00	0.00	157232.03	0.00	0.00
	Other	19.28	0.00	0.00	19.28	0.00	0.00
	<b>Total:</b>	<b>157504.86</b>	<b>0.00</b>	<b>22.80</b>	<b>157323.39</b>	<b>0.00</b>	<b>10.82</b>
<b>Grand Total:</b>		<b>303285.46</b>	<b>-4007.75</b>	<b>320.06</b>	<b>302137.81</b>	<b>0.00</b>	<b>244.79</b>

# JURISDICTION REPORT- Ontario

Withdrawals by Source

Units: Mgal(US)/d

Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Lake Superior</b>							
	Public Supply	30.10	13.03	2.65	30.07	12.96	2.55
	Domestic Supply	0.00	0.00	1.75	0.00	0.00	0.00
	Irrigation	0.02	0.31	0.05			
	Livestock	0.00	0.14	0.00			
	Industrial	162.12	0.00	0.00	0.00	0.00	0.00
	Fossil Fuel Power	81.06	0.00	0.00	81.06	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	36016.95	0.00	0.00	36016.95	0.00
	Other						
	<b>Total:</b>	<b>273.30</b>	<b>36030.43</b>	<b>4.44</b>	<b>111.13</b>	<b>36029.91</b>	<b>2.55</b>
<b>Lake Huron</b>							
	Public Supply	42.66	23.57	18.14	42.02	23.23	16.40
	Domestic Supply	0.00	0.00	10.61	0.00	0.00	0.00
	Irrigation	0.15	15.41	5.35			
	Livestock	2.93	3.07	6.41			
	Industrial	187.41	0.00	2.78	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	5695.74	0.00	0.00	5695.74	0.00	0.00
	Hydroelectric Power	19195.27	21238.11	0.00	19195.27	21238.11	0.00
	Other	0.00	47.97	0.00	0.00	47.97	0.00
	<b>Total:</b>	<b>25124.17</b>	<b>21328.13</b>	<b>43.29</b>	<b>24933.03</b>	<b>21309.31</b>	<b>16.40</b>
<b>Lake Erie</b>							
	Public Supply	8.97	29.26	55.66	8.97	29.23	54.64
	Domestic Supply	0.00	0.00	19.94	0.00	0.00	0.00
	Irrigation	0.59	12.11	19.15			
	Livestock	0.02	0.89	12.31			
	Industrial	173.24	0.00	7.21	0.00	0.00	0.00
	Fossil Fuel Power	1479.36	0.00	0.00	1479.36	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	560.31	0.00	0.00	560.31	0.00
	Other						
	<b>Total:</b>	<b>1662.18</b>	<b>602.57</b>	<b>114.27</b>	<b>1488.33</b>	<b>589.54</b>	<b>54.64</b>

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Lake Ontario</b>							
	Public Supply	401.52	52.86	11.56	401.47	52.68	10.47
	Domestic Supply	0.00	0.00	64.17	0.00	0.00	0.00
	Irrigation	1.08	9.53	7.12			
	Livestock	0.00	0.94	4.46			
	Industrial	218.17	0.00	11.46	0.00	0.00	0.00
	Fossil Fuel Power	723.03	0.00	0.00	723.03	0.00	0.00
	Nuclear Power	6606.47	0.00	0.00	6606.47	0.00	0.00
	Hydroelectric Power	37651.12	14701.97	0.00	37651.12	14701.97	0.00
	Other	0.00	132.35	0.00	0.00	132.35	0.00
	<b>Total:</b>	<b>45601.40</b>	<b>14897.64</b>	<b>98.77</b>	<b>45382.10</b>	<b>14886.99</b>	<b>10.47</b>
<b>St. Lawrence River</b>							
	Public Supply	10.64	58.84	3.56	10.64	58.52	2.93
	Domestic Supply	0.00	0.00	11.45	0.00	0.00	0.00
	Irrigation	0.01	2.04	0.30			
	Livestock	0.00	3.63	2.28			
	Industrial	159.76	0.00	1.05	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	85452.52	71779.51	0.00	85452.52	71779.51	0.00
	Other	0.00	19.28	0.00	0.00	19.28	0.00
	<b>Total:</b>	<b>85622.93</b>	<b>71863.29</b>	<b>18.65</b>	<b>85463.16</b>	<b>71857.31</b>	<b>2.93</b>
<b>Grand Total:</b>		<b>158283.98</b>	<b>144722.06</b>	<b>279.43</b>	<b>157377.75</b>	<b>144673.06</b>	<b>87.00</b>



# JURISDICTION REPORT- Ontario

Jurisdiction Totals

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	493.88	177.55	91.57	763.00	0.00	0.00	114.45
Domestic Supply	0.00	0.00	107.91	107.91	0.00	0.00	16.19
Irrigation	1.86	39.39	31.97	73.22	0.00	0.00	
Livestock	2.95	8.67	25.47	37.09	0.00	0.00	
Industrial	900.71	0.00	22.51	923.22	0.00	0.00	58.16
Fossil Fuel Power	2283.46	0.00	0.00	2283.46	0.00	0.00	20.55
Nuclear Power	12302.21	0.00	0.00	12302.21	0.00	0.00	110.72
Hydroelectric Power	142298.91	144296.84	0.00	286595.75	0.00	-4007.75	0.00
Other	0.00	199.61	0.00	199.61	61.97	0.00	0.00

## Total Report - Principal Facilities

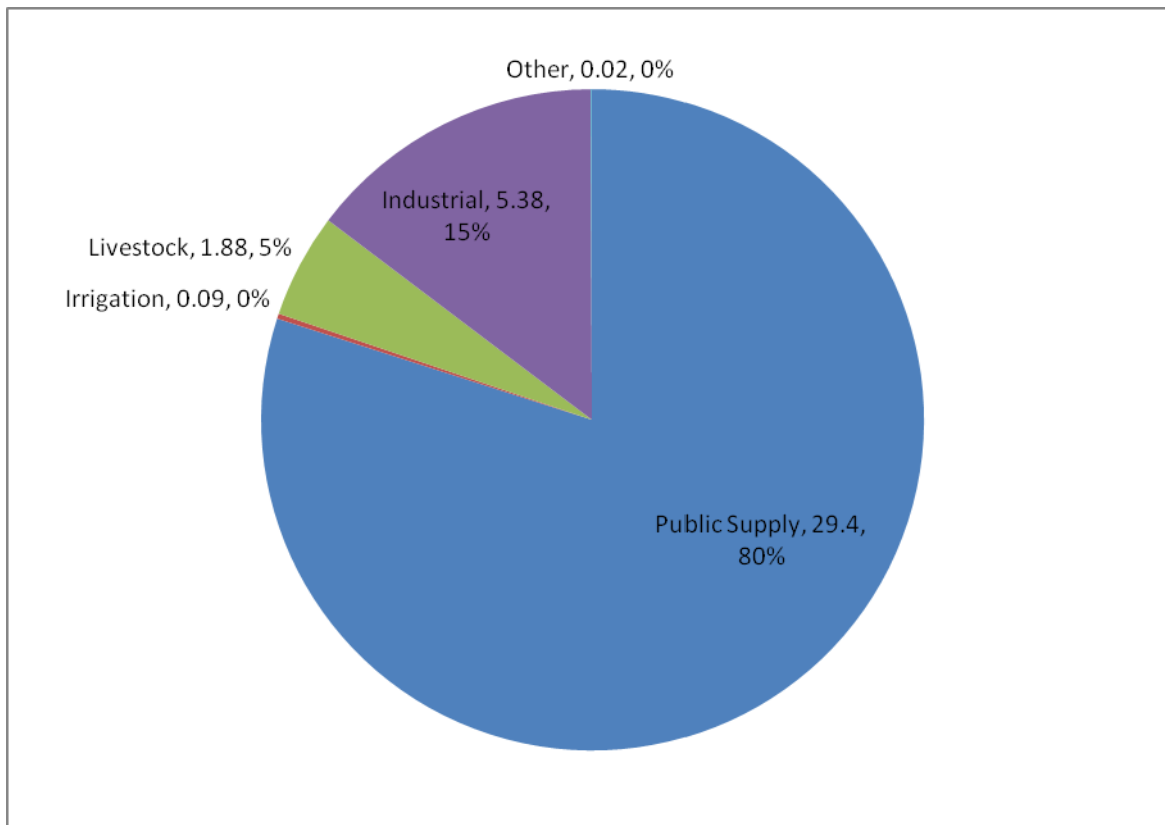
Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	493.17	176.61	87.00	756.78	0.00	0.00	113.52
Domestic Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Irrigation					0.00	0.00	
Livestock					0.00	0.00	
Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fossil Fuel Power	2283.46	0.00	0.00	2283.46	0.00	0.00	20.55
Nuclear Power	12302.21	0.00	0.00	12302.21	0.00	0.00	110.72
Hydroelectric Power	142298.91	144296.84	0.00	286595.75	0.00	0.00	0.00
Other	0.00	199.61	0.00	199.61	61.97	0.00	0.00

## Pennsylvania

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

**Withdrawals:** Total withdrawals from Lake Erie were 36.77 mgd. Public supply at 29.4 mgd or 80 percent, and industrial at 5.38 mgd or 15 percent, constituted the primary uses of water.

**Figure 12. 2010 Pennsylvania Water Use** (In millions of gallons per day)



**Consumptive Use:** Consumptive totaled 5.06 mgd.

# JURISDICTION REPORT- Pennsylvania

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d  
Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Lake Erie</b>							
	Public Supply	29.36		2.94	28.98	2.90	
	Domestic Supply						
	Irrigation	0.09		0.08			
	Livestock	1.88		1.50	1.80	1.44	
	Industrial	5.38		0.54	5.31	0.53	
	Fossil Fuel Power						
	Nuclear Power						
	Hydroelectric Power						
	Other	0.02					
	<b>Total:</b>	<b>36.72</b>		<b>5.05</b>	<b>36.10</b>	<b>4.87</b>	
<b>Lake Ontario</b>							
	Public Supply	0.04		0.00			
	<b>Total:</b>	<b>0.04</b>		<b>0.00</b>			
<b>Grand Total:</b>		<b>36.77</b>		<b>5.06</b>	<b>36.10</b>	<b>4.87</b>	

# JURISDICTION REPORT- Pennsylvania

Withdrawals by Source

Units: Mgal(US)/d

Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Lake Erie</b>							
	Public Supply	27.72	0.11	1.53	27.72	0.00	1.27
	Domestic Supply						
	Irrigation	0.00	0.09	0.00			
	Livestock	0.00	1.67	0.21	0.00	1.59	0.21
	Industrial	5.31	0.00	0.07	5.31	0.00	0.00
	Fossil Fuel Power						
	Nuclear Power						
	Hydroelectric Power						
	Other	0.00	0.00	0.02			
	<b>Total:</b>	<b>33.03</b>	<b>1.86</b>	<b>1.84</b>	<b>33.03</b>	<b>1.59</b>	<b>1.48</b>
<b>Lake Ontario</b>							
	Public Supply	0.00	0.00	0.04			
	<b>Total:</b>	<b>0.00</b>	<b>0.00</b>	<b>0.04</b>			
<b>Grand Total:</b>		<b>33.03</b>	<b>1.86</b>	<b>1.88</b>	<b>33.03</b>	<b>1.59</b>	<b>1.48</b>

# JURISDICTION REPORT- Pennsylvania

Jurisdiction Totals

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Public Supply	27.72	0.11	1.58	29.40			2.94
Domestic Supply							
Irrigation	0.00	0.09	0.00	0.09			0.08
Livestock	0.00	1.67	0.21	1.88			1.50
Industrial	5.31	0.00	0.07	5.38			0.54
Fossil Fuel Power							
Nuclear Power							
Hydroelectric Power							
Other	0.00	0.00	0.02	0.02			

## Total Report - Principal Facilities

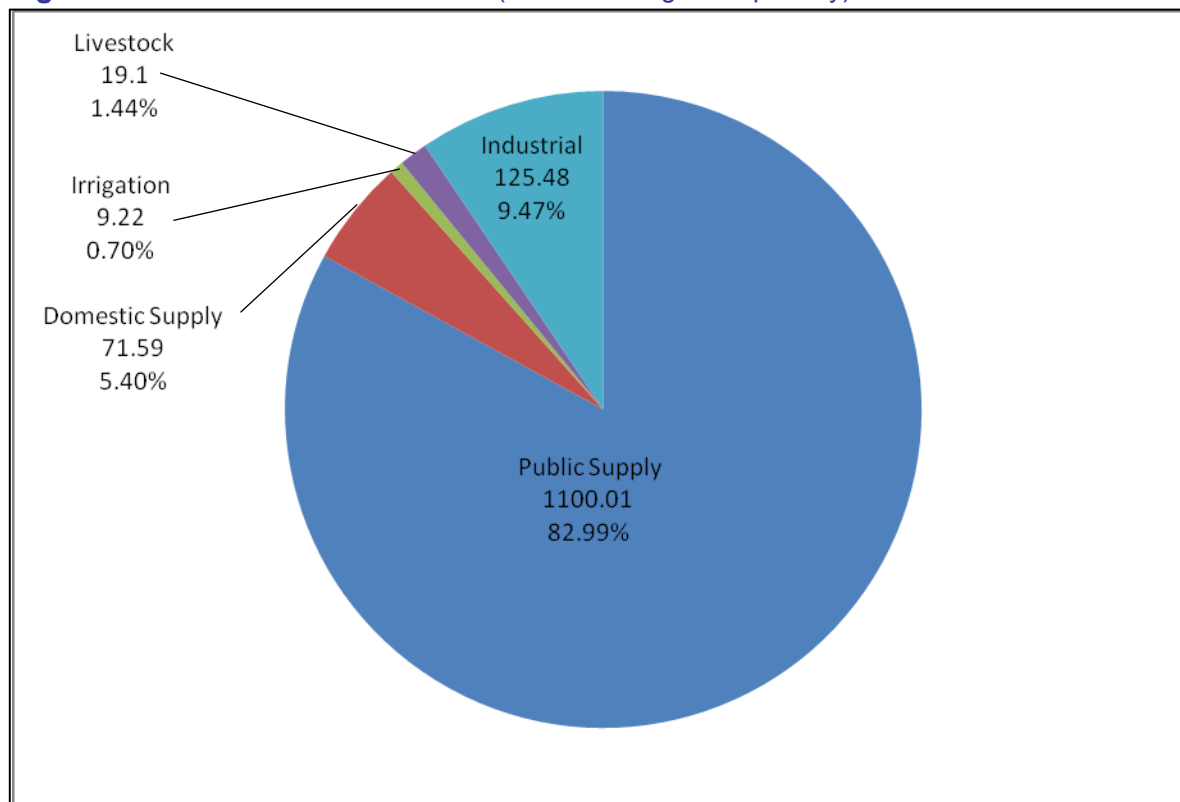
Category	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Public Supply	27.72	0.00	1.27	28.98			2.90
Domestic Supply							
Irrigation							
Livestock	0.00	1.59	0.21	1.80			1.44
Industrial	5.31	0.00	0.00	5.31			0.53
Fossil Fuel Power							
Nuclear Power							
Hydroelectric Power							
Other							

## Québec

**Data Source:** Water use data was provided by the Ministère du Développement durable, de l'Environnement et des Parcs—Centre d'expertise hydrique du Québec for this report. The Centre has compiled water use data primarily to support hydrologic and hydraulic research, floodplain delineation and hydrometric network management. Data from 1993 is being used for this report until a proposed regulation to support collection of water withdrawal data is adopted. The adoption of the regulation is expected in the fall of 2011. Please contact Veronique Lavoie at [veronique.lavoie@mddep.gouv.qc.ca](mailto:veronique.lavoie@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:** Excluding hydroelectric power which accounts for 304 billion per day, the total water withdrawals from Québec's St. Lawrence River basin was approximately 1,372.43 mgd.

**Figure 13. 2010 Québec Water Use** (In millions of gallons per day)



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

**Diversions:** Diversions are currently being inventoried.

Historically, water withdrawals have not been a source of great conflict in Québec; however, water shortage caused by severe drought and increasing demands for water withdrawal have brought the problem to the forefront. Since the adoption of a 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. In June 2009, Québec adopted an Act to affirm the collective nature of water resources and provide for increased water resource protection. The implementation of this new legislation will enable Québec to implement the Agreement on its territory and to fulfill its commitments. It will also allow Québec to meet the requirements of Article 301 of the Great Lakes-St. Lawrence River Basin Sustainable Water Resources Agreement. (See [http://www.mddep.gouv.qc.ca/eau/protection/index\\_en.htm](http://www.mddep.gouv.qc.ca/eau/protection/index_en.htm) for highlights and the complete text.)

# JURISDICTION REPORT- Quebec

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d  
Year Of Data: 2010

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

# JURISDICTION REPORT- Quebec

Withdrawals by Source Units: Mgal(US)/d  
Year Of Data: 2010

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



# JURISDICTION REPORT- Quebec

Jurisdiction Totals

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

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

## Total Report - Principal Facilities

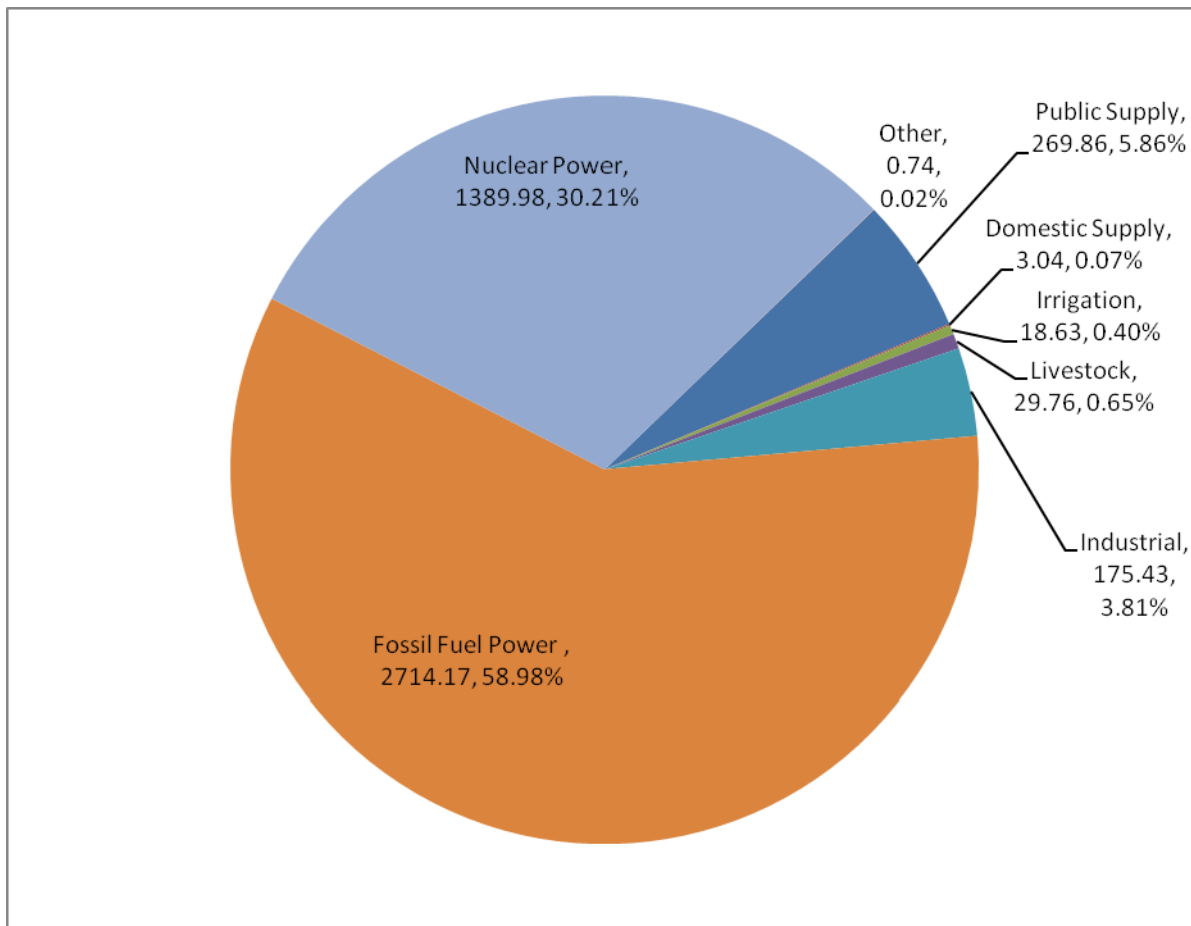
Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	602.58	493.47	0.00	1096.05	0.00	0.00	109.63
Domestic Supply	0.00	0.00	48.61	48.61	0.00	0.00	4.76
Irrigation					0.00	0.00	
Livestock					0.00	0.00	
Industrial	0.00	124.95	0.00	124.95	0.00	0.00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

## Wisconsin

**Data Sources:** Wisconsin 2010 water use data for the Lake Michigan and Lake Superior basins were submitted by the Wisconsin Department of Natural Resources—Bureau of Drinking Water and Groundwater. Contact Shaili Pfeiffer at 608/267-7630 or Shaili.Pfeiffer@wisconsin.gov with questions regarding Wisconsin’s water use data.

**Withdrawals:** Total withdrawals were 4,601.61 mgd: 4,558.18 mgd from Lake Michigan (99 % of the total) and 43.43 mgd from Lake Superior. Water use in the Lake Michigan basin was primarily for fossil fuel (2,679.08 mgd) and nuclear power (1,389.98 mgd)—at 59 percent and 30 percent respectively. Of the Lake Superior uses, the largest single use was for fossil fuel power at 35.09 mgd at 81percent.

**Figure 14. 2010 Wisconsin Water Use** (In millions of gallons per day)



**Consumptive Use:** Consumptive uses from Wisconsin’s portion of the basin were calculated to be 105.17 mgd.

**Interbasin Diversions:** A withdrawal for public supply at Pleasant Prairie diverts 0.54 mgd from the Lake Michigan basin to the Mississippi River basin. This diversion ended in October 2010.

# JURISDICTION REPORT- Wisconsin

Withdrawals, Diversions and Consumptive Uses Units: Mgal(US)/d  
Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Lake Superior</b>							
	Public Supply	1.38	0.00	0.13			
	Domestic Supply	0.01	0.00	0.00			
	Irrigation	0.02	0.00	0.01			
	Livestock	6.46	0.00	5.81			
	Industrial	0.47	0.00	0.04			
	Fossil Fuel Power	35.09	0.00	0.18			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power		0.00				
	Other	0.00	0.00	0.00			
	<b>Total:</b>	<b>43.43</b>	<b>0.00</b>	<b>6.17</b>			
<b>Lake Michigan</b>							
	Public Supply	268.48	0.54	26.85			
	Domestic Supply	3.03	0.00	0.30			
	Irrigation	18.61	0.00	13.03			
	Livestock	23.30	0.00	20.97			
	Industrial	174.96	0.00	17.50			
	Fossil Fuel Power	2679.08	0.00	13.40			
	Nuclear Power	1389.98	0.00	6.95			
	Hydroelectric Power						
	Other	0.74	-25.85	0.00			
	<b>Total:</b>	<b>4558.18</b>	<b>-25.31</b>	<b>99.00</b>			
<b>Grand Total:</b>		<b>4601.61</b>	<b>-25.31</b>	<b>105.17</b>			

# JURISDICTION REPORT- Wisconsin

Withdrawals by Source Units: Mgal(US)/d  
Year Of Data: 2010

Basin	Category	All Facilities			Principal Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Lake Superior</b>							
	Public Supply	0.64	0.00	0.74			
	Domestic Supply	0.00	0.00	0.01			
	Irrigation	0.00	0.00	0.02			
	Livestock	0.00	6.46	0.00			
	Industrial	0.34	0.03	0.10			
	Fossil Fuel Power	35.07	0.00	0.02			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power						
	Other	0.00	0.00	0.00			
	<b>Total:</b>	<b>36.05</b>	<b>6.49</b>	<b>0.89</b>			
<b>Lake Michigan</b>							
	Public Supply	196.59	20.66	51.23			
	Domestic Supply	0.09	1.63	1.31			
	Irrigation	0.00	1.08	17.53			
	Livestock	0.00	11.89	11.41			
	Industrial	0.02	161.76	13.18			
	Fossil Fuel Power	2283.55	395.53	0.00			
	Nuclear Power	1389.93	0.00	0.05			
	Hydroelectric Power						
	Other	0.00	0.00	0.74			
	<b>Total:</b>	<b>3870.18</b>	<b>592.55</b>	<b>95.45</b>			
<b>Grand Total:</b>		<b>3906.23</b>	<b>599.04</b>	<b>96.34</b>			

# JURISDICTION REPORT- Wisconsin

Jurisdiction Totals

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	197.23	20.66	51.97	269.86	0.00	0.54	26.98
Domestic Supply	0.09	1.63	1.32	3.04	0.00	0.50	0.30
Irrigation	0.00	1.08	17.55	18.63	0.00	0.00	13.04
Livestock	0.00	18.35	11.41	29.76	0.00	0.00	26.78
Industrial	0.36	161.79	13.28	175.43	0.00	0.00	17.54
Fossil Fuel Power	2318.62	395.53	0.02	2714.17	0.00	0.00	13.58
Nuclear Power	1389.93	0.00	0.05	1389.98	0.00	0.00	6.95
Hydroelectric Power					0.00	0.00	
Other	0.00	0.00	0.74	0.74	0.00	-25.85	0.00

## Total Report - Principal Facilities

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

## Basin Tables

Each Great Lake and St. Lawrence River basin is represented by three tables:

- Withdrawals, diversions and consumptive uses;
- Withdrawals by sources; and
- Basin totals.

# BASIN REPORT - Lake Superior

Withdrawals, Diversions  
and Consumptive Uses

Units: Mgal(US)/d  
Year Of Data: 2010

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Michigan</b>							
	Public Supply	13.37		1.67	12.63		1.58
	Domestic Supply						
	Irrigation	1.02		0.92	0.97		0.87
	Livestock						
	Industrial	4.65		0.47	4.53		0.45
	Fossil Fuel Power	210.84		0.36	210.84		0.36
	Nuclear Power						
	Hydroelectric Power						
	Other						
	<b>Total</b>	<b>229.89</b>		<b>3.42</b>	<b>228.98</b>		<b>3.26</b>
<b>Minnesota</b>							
	Public Supply	37.64	0.00	3.76	37.37	0.00	3.74
	Domestic Supply	1.22	0.00	0.12	1.15	0.00	0.11
	Irrigation	0.56	0.03	0.49	0.00	0.00	0.00
	Livestock	0.81	0.00	0.72	0.74	0.00	0.67
	Industrial	201.20	8.51	20.12	200.86	8.51	20.09
	Fossil Fuel Power	403.83	0.00	8.08	403.82	0.00	8.08
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	3471.70	0.00	0.00	3471.70	0.00	0.00
	Other	0.16	0.00	0.00	0.14	0.00	0.00
	<b>Total</b>	<b>4117.12</b>	<b>8.54</b>	<b>33.29</b>	<b>4115.78</b>	<b>8.51</b>	<b>32.69</b>
<b>Ontario</b>							
	Public Supply	45.77	0.00	6.87	45.58	0.00	6.84
	Domestic Supply	1.75	0.00	0.26	0.00	0.00	0.00
	Irrigation	0.37	0.00			0.00	
	Livestock	0.14	0.00			0.00	
	Industrial	162.12	0.00	10.21	0.00	0.00	0.00
	Fossil Fuel Power	81.06	0.00	0.73	81.06	0.00	0.73
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	36016.95	-4007.75	0.00	36016.95	0.00	0.00
	Other		0.00			0.00	
	<b>Total</b>	<b>36308.17</b>	<b>-4007.75</b>	<b>18.07</b>	<b>36143.59</b>	<b>0.00</b>	<b>7.57</b>

# BASIN REPORT- Lake Superior

Units: Mgal(US)/d  
Withdrawals by Source  
Year Of Data: 2010

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Michigan</b>							
	Public Supply	4.93	0.00	8.44	4.93	0.00	7.70
	Domestic Supply						
	Irrigation	0.01	0.48	0.53	0.00	0.47	0.50
	Livestock						
	Industrial	4.53	0.00	0.12	4.53	0.00	0.00
	Fossil Fuel Power	210.84	0.00	0.00	210.84	0.00	0.00
	Nuclear Power						
	Hydroelectric Power						
	Other						
	<b>TOTAL</b>	<b>220.32</b>	<b>0.48</b>	<b>9.09</b>	<b>220.31</b>	<b>0.47</b>	<b>8.20</b>
<b>Minnesota</b>							
	Public Supply	30.61	1.81	5.22	30.61	1.80	4.96
	Domestic Supply	0.75	0.43	0.04	0.72	0.43	0.00
	Irrigation	0.06	0.45	0.05	0.00	0.00	0.00
	Livestock	0.81	0.00	0.00	0.74	0.00	0.00
	Industrial	123.96	77.11	0.13	123.87	76.88	0.11
	Fossil Fuel Power	245.30	158.52	0.01	245.30	158.52	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	3471.70	0.00	0.00	3471.70	0.00
	Other	0.00	0.00	0.16	0.00	0.00	0.14
	<b>TOTAL</b>	<b>401.49</b>	<b>3710.02</b>	<b>5.61</b>	<b>401.24</b>	<b>3709.33</b>	<b>5.21</b>
<b>Ontario</b>							
	Public Supply	30.10	13.03	2.65	30.07	12.96	2.55
	Domestic Supply	0.00	0.00	1.75	0.00	0.00	0.00
	Irrigation	0.02	0.31	0.05			
	Livestock	0.00	0.14	0.00			
	Industrial	162.12	0.00	0.00	0.00	0.00	0.00
	Fossil Fuel Power	81.06	0.00	0.00	81.06	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	36016.95	0.00	0.00	36016.95	0.00
	Other						
	<b>TOTAL</b>	<b>273.30</b>	<b>36030.43</b>	<b>4.44</b>	<b>111.13</b>	<b>36029.91</b>	<b>2.55</b>



Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Wisconsin</b>							
	Public Supply	0.64	0.00	0.74			
	Domestic Supply	0.00	0.00	0.01			
	Irrigation	0.00	0.00	0.02			
	Livestock	0.00	6.46	0.00			
	Industrial	0.34	0.03	0.10			
	Fossil Fuel Power	35.07	0.00	0.02			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power						
	Other	0.00	0.00	0.00			
	<b>TOTAL</b>	<b>36.05</b>	<b>6.49</b>	<b>0.89</b>			
<b>Grand Total:</b>		<b>931.16</b>	<b>39747.42</b>	<b>20.03</b>	<b>732.68</b>	<b>39739.71</b>	<b>15.95</b>

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Wisconsin</b>							
	Public Supply	1.38	0.00	0.13			
	Domestic Supply	0.01	0.00	0.00			
	Irrigation	0.02	0.00	0.01			
	Livestock	6.46	0.00	5.81			
	Industrial	0.47	0.00	0.04			
	Fossil Fuel Power	35.09	0.00	0.18			
	Nuclear Power	0.00	0.00	0.00			
	Hydroelectric Power		0.00				
	Other	0.00	0.00	0.00			
	<b>Total</b>	<b>43.43</b>	<b>0.00</b>	<b>6.17</b>			
<b>Grand Total:</b>		<b>40698.61</b>	<b>-3999.21</b>	<b>60.95</b>	<b>40488.35</b>	<b>8.51</b>	<b>43.52</b>

# BASIN REPORT- Lake Superior

Basin Total

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	66.28	14.84	17.05	98.17	-0.30	0.00	12.43
Domestic Supply	0.75	0.43	1.80	2.98	0.00	0.00	0.38
Irrigation	0.09	1.24	0.64	1.98	0.00	0.03	1.42
Livestock	0.81	6.60	0.00	7.41	0.00	0.00	6.53
Industrial	290.95	77.14	0.35	368.45	0.00	8.51	30.84
Fossil Fuel Power	572.27	158.52	0.03	730.82	0.00	0.00	9.35
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	39488.65	0.00	39488.65	0.00	-4007.75	0.00
Other	0.00	0.00	0.16	0.16	0.00	0.00	0.00

## Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	65.61	14.76	15.21	95.58	-0.30	0.00	12.16
Domestic Supply	0.72	0.43	0.00	1.15	0.00	0.00	0.11
Irrigation	0.00	0.47	0.50	0.97	0.00	0.00	0.87
Livestock	0.74	0.00	0.00	0.74	0.00	0.00	0.67
Industrial	128.40	76.88	0.11	205.39	0.00	8.51	20.54
Fossil Fuel Power	537.20	158.52	0.00	695.72	0.00	0.00	9.17
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	0.00	39488.65	0.00	39488.65	0.00	0.00	0.00
Other	0.00	0.00	0.14	0.14	0.00	0.00	0.00

# BASIN REPORT - Lake Michigan

Withdrawals, Diversions  
and Consumptive Uses

Units: Mgal(US)/d  
Year Of Data: 2010

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Illinois</b>							
	Public Supply	903.05	903.05	0.00	903.05	903.05	0.00
	Domestic Supply	2.35	2.35	0.00	2.35	2.35	0.00
	Irrigation	0.08	0.00	0.00	0.08	0.00	0.00
	Livestock						
	Industrial	17.55	0.01	0.17	17.55	0.01	0.17
	Fossil Fuel Power	965.32	0.00	0.00	965.32	0.00	0.00
	Nuclear Power	31.68	0.00	0.00	31.68	0.00	0.00
	Hydroelectric Power						
	Other	242.68	242.68	0.00	242.68	242.68	0.00
	<b>Total</b>	<b>2162.70</b>	<b>1148.08</b>	<b>0.17</b>	<b>2162.70</b>	<b>1148.08</b>	<b>0.17</b>
<b>Indiana</b>							
	Public Supply	130.70	50.75	19.61	130.36	50.84	19.56
	Domestic Supply	32.97	0.00	4.95	32.19	0.00	4.83
	Irrigation	41.94	0.00	37.75	41.34	0.00	37.21
	Livestock	3.79	0.00	3.03	3.76	0.00	3.01
	Industrial	1538.50	24.32	92.31	1538.12	24.32	92.29
	Fossil Fuel Power	664.48	0.00	13.29	664.48	0.00	13.29
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	1955.59	0.00	0.00	1955.59	0.00	0.00
	Other	0.11	0.00	0.01	0.07	0.00	0.01
	<b>Total</b>	<b>4368.08</b>	<b>75.07</b>	<b>170.95</b>	<b>4365.91</b>	<b>75.16</b>	<b>170.20</b>
<b>Michigan</b>							
	Public Supply	253.23		31.65	245.17		30.65
	Domestic Supply	3.17		0.40	2.83		0.35
	Irrigation	191.49		172.34	177.45		159.71
	Livestock	5.43		4.34	2.50		2.00
	Industrial	260.33		26.03	258.82		25.88
	Fossil Fuel Power	1258.83		29.42	1258.82		29.42
	Nuclear Power	2126.14		21.80	2126.14		21.80
	Hydroelectric Power						
	Other	3.81		0.00	3.78		0.00
	<b>Total</b>	<b>4102.42</b>		<b>285.98</b>	<b>4075.51</b>		<b>269.81</b>

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Wisconsin</b>							
	Public Supply	268.48	0.54	26.85			
	Domestic Supply	3.03	0.00	0.30			
	Irrigation	18.61	0.00	13.03			
	Livestock	23.30	0.00	20.97			
	Industrial	174.96	0.00	17.50			
	Fossil Fuel Power	2679.08	0.00	13.40			
	Nuclear Power	1389.98	0.00	6.95			
	Hydroelectric Power						
	Other	0.74	-25.85	0.00			
	<b>Total</b>	<b>4558.18</b>	<b>-25.31</b>	<b>99.00</b>			
<b>Grand Total:</b>		<b>15191.37</b>	<b>1197.84</b>	<b>556.10</b>	<b>10604.11</b>	<b>1223.24</b>	<b>440.17</b>

# BASIN REPORT- Lake Michigan

Units: Mgal(US)/d  
Withdrawals by Source  
Year Of Data: 2010

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Illinois</b>							
	Public Supply	903.05	0.00	0.00	903.05	0.00	0.00
	Domestic Supply	2.35	0.00	0.00	2.35	0.00	0.00
	Irrigation	0.00	0.00	0.08	0.00	0.00	0.08
	Livestock						
	Industrial	17.55	0.00	0.00	17.55	0.00	0.00
	Fossil Fuel Power	965.32	0.00	0.00	965.32	0.00	0.00
	Nuclear Power	31.68	0.00	0.00	31.68	0.00	0.00
	Hydroelectric Power						
	Other	242.68	0.00	0.00	242.68	0.00	0.00
	<b>TOTAL</b>	<b>2162.61</b>	<b>0.00</b>	<b>0.08</b>	<b>2162.61</b>	<b>0.00</b>	<b>0.08</b>
<b>Indiana</b>							
	Public Supply	88.37	0.00	42.33	88.37	0.00	41.99
	Domestic Supply	0.00	25.67	7.30	0.00	25.64	6.55
	Irrigation	0.00	7.81	34.13	0.00	7.59	33.75
	Livestock	0.00	1.15	2.64	0.00	1.15	2.61
	Industrial	1529.95	2.52	6.03	1529.95	2.52	5.65
	Fossil Fuel Power	664.48	0.00	0.00	664.48	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	1955.59	0.00	0.00	1955.59	0.00
	Other	0.00	0.00	0.11	0.00	0.00	0.07
	<b>TOTAL</b>	<b>2282.80</b>	<b>1992.74</b>	<b>92.54</b>	<b>2282.80</b>	<b>1992.49</b>	<b>90.62</b>
<b>Michigan</b>							
	Public Supply	123.75	0.00	129.48	123.75	0.00	121.42
	Domestic Supply	0.00	0.00	3.17	0.00	0.00	2.83
	Irrigation	0.27	54.14	137.08	0.24	48.95	128.26
	Livestock	0.00	1.12	4.30	0.00	1.07	1.43
	Industrial	46.99	136.47	76.87	46.97	136.42	75.43
	Fossil Fuel Power	761.22	495.25	2.35	761.22	495.25	2.34
	Nuclear Power	2126.14	0.00	0.00	2126.14	0.00	0.00
	Hydroelectric Power						
	Other	0.00	0.00	3.81	0.00	0.00	3.78
	<b>TOTAL</b>	<b>3058.37</b>	<b>686.99</b>	<b>357.06</b>	<b>3058.33</b>	<b>681.69</b>	<b>335.48</b>

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Wisconsin</b>							
	Public Supply	196.59	20.66	51.23			
	Domestic Supply	0.09	1.63	1.31			
	Irrigation	0.00	1.08	17.53			
	Livestock	0.00	11.89	11.41			
	Industrial	0.02	161.76	13.18			
	Fossil Fuel Power	2283.55	395.53	0.00			
	Nuclear Power	1389.93	0.00	0.05			
	Hydroelectric Power						
	Other	0.00	0.00	0.74			
	<b>TOTAL</b>	<b>3870.18</b>	<b>592.55</b>	<b>95.45</b>			
<b>Grand Total:</b>		<b>11373.96</b>	<b>3272.28</b>	<b>545.14</b>	<b>7503.74</b>	<b>2674.18</b>	<b>426.19</b>

# BASIN REPORT- Lake Michigan

Basin Total

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1311.75	20.66	223.04	1555.46	0.40	954.34	78.11
Domestic Supply	2.44	27.30	11.78	41.52	0.00	2.35	5.65
Irrigation	0.27	63.03	188.82	252.12	0.00	0.00	223.12
Livestock	0.00	14.16	18.35	32.52	0.00	0.00	28.34
Industrial	1594.50	300.75	96.08	1991.33	0.00	24.33	136.01
Fossil Fuel Power	4674.57	890.78	2.35	5567.70	0.00	0.00	56.11
Nuclear Power	3547.75	0.00	0.05	3547.80	0.00	0.00	28.75
Hydroelectric Power	0.00	1955.59	0.00	1955.59	0.00	0.00	0.00
Other	242.68	0.00	4.66	247.33	0.00	216.83	0.01

## Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1115.16	0.00	163.41	1278.57	0.40	953.89	50.21
Domestic Supply	2.35	25.64	9.38	37.37	0.00	2.35	5.18
Irrigation	0.24	56.54	162.09	218.87	0.00	0.00	196.92
Livestock	0.00	2.22	4.04	6.26	0.00	0.00	5.01
Industrial	1594.47	138.94	81.08	1814.49	0.00	24.33	118.34
Fossil Fuel Power	2391.02	495.25	2.34	2888.62	0.00	0.00	42.71
Nuclear Power	2157.82	0.00	0.00	2157.82	0.00	0.00	21.80
Hydroelectric Power	0.00	1955.59	0.00	1955.59	0.00	0.00	0.00
Other	242.68	0.00	3.85	246.52	0.00	242.68	0.01



# BASIN REPORT- Lake Huron

Withdrawals, Diversions  
and Consumptive Uses

Units: Mgal(US)/d  
Year Of Data: 2010

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Michigan</b>							
	Public Supply	117.27		14.66	114.50		14.31
	Domestic Supply	0.06		0.01			
	Irrigation	23.22		20.90	21.73		19.56
	Livestock	2.07		1.66	1.23		0.98
	Industrial	73.62		7.36	73.27		7.33
	Fossil Fuel Power	766.67		1.30	766.67		1.30
	Nuclear Power						
	Hydroelectric Power						
	Other						
	<b>Total</b>	<b>982.92</b>		<b>45.89</b>	<b>977.40</b>		<b>43.48</b>
<b>Ontario</b>							
	Public Supply	84.37	0.00	12.65	81.66	0.00	12.25
	Domestic Supply	10.61	0.00	1.59	0.00	0.00	0.00
	Irrigation	20.91	0.00			0.00	
	Livestock	12.41	0.00			0.00	
	Industrial	190.19	0.00	11.98	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	5695.74	0.00	51.26	5695.74	0.00	51.26
	Hydroelectric Power	40433.38	0.00	0.00	40433.38	0.00	0.00
	Other	47.97	0.00	0.00	47.97	0.00	0.00
	<b>Total</b>	<b>46495.59</b>	<b>0.00</b>	<b>77.49</b>	<b>46258.75</b>	<b>0.00</b>	<b>63.51</b>
<b>Grand Total:</b>		<b>47478.51</b>	<b>0.00</b>	<b>123.38</b>	<b>47236.15</b>	<b>0.00</b>	<b>106.99</b>

# BASIN REPORT- Lake Huron

Units: Mgal(US)/d  
 Withdrawals by Source  
 Year Of Data: 2010

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Michigan</b>							
	Public Supply	94.41	1.03	21.83	94.19	1.03	19.28
	Domestic Supply	0.00	0.00	0.06			
	Irrigation	0.14	11.68	11.40	0.10	10.67	10.97
	Livestock	0.00	0.71	1.36	0.00	0.71	0.52
	Industrial	15.90	36.73	20.99	15.90	36.67	20.71
	Fossil Fuel Power	166.86	598.97	0.84	166.86	598.97	0.84
	Nuclear Power						
	Hydroelectric Power						
	Other						
	<b>TOTAL</b>	<b>277.31</b>	<b>649.12</b>	<b>56.49</b>	<b>277.05</b>	<b>648.04</b>	<b>52.31</b>
<b>Ontario</b>							
	Public Supply	42.66	23.57	18.14	42.02	23.23	16.40
	Domestic Supply	0.00	0.00	10.61	0.00	0.00	0.00
	Irrigation	0.15	15.41	5.35			
	Livestock	2.93	3.07	6.41			
	Industrial	187.41	0.00	2.78	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	5695.74	0.00	0.00	5695.74	0.00	0.00
	Hydroelectric Power	19195.27	21238.11	0.00	19195.27	21238.11	0.00
	Other	0.00	47.97	0.00	0.00	47.97	0.00
	<b>TOTAL</b>	<b>25124.17</b>	<b>21328.13</b>	<b>43.29</b>	<b>24933.03</b>	<b>21309.31</b>	<b>16.40</b>
<b>Grand Total:</b>		<b>25401.47</b>	<b>21977.25</b>	<b>99.78</b>	<b>25210.08</b>	<b>21957.36</b>	<b>68.72</b>

# BASIN REPORT- Lake Huron

Basin Total

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	137.07	24.59	39.97	201.64	0.00	0.00	27.31
Domestic Supply	0.00	0.00	10.67	10.67	0.00	0.00	1.60
Irrigation	0.29	27.09	16.75	44.14	0.00	0.00	20.90
Livestock	2.93	3.78	7.77	14.49	0.00	0.00	1.66
Industrial	203.31	36.73	23.77	263.82	0.00	0.00	19.34
Fossil Fuel Power	166.86	598.97	0.84	766.67	0.00	0.00	1.30
Nuclear Power	5695.74	0.00	0.00	5695.74	0.00	0.00	51.26
Hydroelectric Power	19195.27	21238.11	0.00	40433.38	0.00	0.00	0.00
Other	0.00	47.97	0.00	47.97	47.97	0.00	0.00

## Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	136.22	24.26	35.69	196.16	0.00	0.00	26.56
Domestic Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Irrigation	0.10	10.67	10.97	21.73	0.00	0.00	19.56
Livestock	0.00	0.71	0.52	1.23	0.00	0.00	0.98
Industrial	15.90	36.67	20.71	73.27	0.00	0.00	7.33
Fossil Fuel Power	166.86	598.97	0.84	766.67	0.00	0.00	1.30
Nuclear Power	5695.74	0.00	0.00	5695.74	0.00	0.00	51.26
Hydroelectric Power	19195.27	21238.11	0.00	40433.38	0.00	0.00	0.00
Other	0.00	47.97	0.00	47.97	47.97	0.00	0.00

# BASIN REPORT - Lake Erie

Withdrawals, Diversions  
and Consumptive Uses

Units: Mgal(US)/d  
Year Of Data: 2010

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Indiana</b>							
	Public Supply	38.96	7.23	5.84	38.87	7.23	5.83
	Domestic Supply	0.61	0.00	0.09	0.44	0.00	0.07
	Irrigation	1.50	0.00	1.35	1.20	0.00	1.08
	Livestock	0.00	0.00	0.00	0.00	0.00	0.00
	Industrial	8.03	0.00	0.48	7.92	0.00	0.48
	Fossil Fuel Power	0.27	0.00	0.01	0.27	0.00	0.01
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>49.37</b>	<b>7.23</b>	<b>7.77</b>	<b>48.70</b>	<b>7.23</b>	<b>7.47</b>
<b>Michigan</b>							
	Public Supply	630.46		78.81	627.24		78.40
	Domestic Supply	0.15		0.02	0.11		0.01
	Irrigation	18.62		16.76	16.09		14.48
	Livestock	0.66		0.53	0.15		0.12
	Industrial	388.76		38.88	388.36		38.84
	Fossil Fuel Power	4096.48		39.83	4096.48		39.83
	Nuclear Power	52.73		20.25	52.73		20.25
	Hydroelectric Power						
	Other	4.49		0.00	4.46		0.00
	<b>Total</b>	<b>5192.35</b>		<b>195.07</b>	<b>5185.61</b>		<b>191.93</b>
<b>New York</b>							
	Public Supply	262.07	0.00	26.21		0.00	
	Domestic Supply	44.34	0.00	4.43	3.36	0.00	0.34
	Irrigation	1.81	0.00	1.63	1.81		1.63
	Livestock	8.86	0.00	7.98		0.00	
	Industrial	147.04	0.00	36.85	146.17	0.00	36.63
	Fossil Fuel Power	664.43	0.00	13.29	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	44081.00	0.00	0.00	44081.00	0.00	0.00
	Other	0.93	0.00	0.09	0.93	0.00	0.09
	<b>Total</b>	<b>45210.48</b>	<b>0.00</b>	<b>90.48</b>	<b>44233.27</b>	<b>0.00</b>	<b>38.69</b>

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>Ohio</b>							
	Public Supply	554.47	0.32	83.17	550.69	0.32	82.60
	Domestic Supply	58.83	0.00	8.82	0.40	0.00	0.06
	Irrigation	27.49	0.00	24.74	24.48	0.00	22.04
	Livestock	12.02	0.00	9.61	0.62	0.00	0.49
	Industrial	226.27	0.00	18.17	225.65	0.00	18.11
	Fossil Fuel Power	1268.65	0.00	12.69	1268.65	0.00	12.69
	Nuclear Power	121.24	0.00	12.12	121.24	0.00	12.12
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	10.37	-7.69	4.21	10.28	-7.69	4.17
	<b>Total</b>	<b>2279.34</b>	<b>-7.37</b>	<b>173.53</b>	<b>2202.01</b>	<b>-7.37</b>	<b>152.28</b>
<b>Ontario</b>							
	Public Supply	93.89	0.00	14.08	92.84	0.00	13.92
	Domestic Supply	19.94	0.00	2.99	0.00	0.00	0.00
	Irrigation	31.85	0.00			0.00	
	Livestock	13.22	0.00			0.00	
	Industrial	180.45	0.00	11.37	0.00	0.00	0.00
	Fossil Fuel Power	1479.36	0.00	13.31	1479.36	0.00	13.31
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	560.31	0.00	0.00	560.31	0.00	0.00
	Other		0.00			0.00	
	<b>Total</b>	<b>2379.03</b>	<b>0.00</b>	<b>41.76</b>	<b>2132.51</b>	<b>0.00</b>	<b>27.24</b>
<b>Pennsylvania</b>							
	Public Supply	29.36		2.94	28.98		2.90
	Domestic Supply						
	Irrigation	0.09		0.08			
	Livestock	1.88		1.50	1.80		1.44
	Industrial	5.38		0.54	5.31		0.53
	Fossil Fuel Power						
	Nuclear Power						
	Hydroelectric Power						
	Other	0.02					
	<b>Total</b>	<b>36.72</b>		<b>5.05</b>	<b>36.10</b>		<b>4.87</b>
<b>Grand Total:</b>		<b>55147.29</b>	<b>-0.14</b>	<b>513.66</b>	<b>53838.20</b>	<b>-0.14</b>	<b>422.48</b>

# BASIN REPORT- Lake Erie

Units: Mgal(US)/d  
 Withdrawals by Source  
 Year Of Data: 2010

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Indiana</b>							
	Public Supply	0.00	32.69	6.27	0.00	32.69	6.18
	Domestic Supply	0.00	0.00	0.61	0.00	0.00	0.44
	Irrigation	0.00	0.42	1.08	0.00	0.29	0.91
	Livestock	0.00	0.00	0.00	0.00	0.00	0.00
	Industrial	0.00	3.50	4.53	0.00	3.50	4.42
	Fossil Fuel Power	0.00	0.00	0.27	0.00	0.00	0.27
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.00	0.00	0.00	0.00	0.00	0.00
	<b>TOTAL</b>	<b>0.00</b>	<b>36.61</b>	<b>12.76</b>	<b>0.00</b>	<b>36.48</b>	<b>12.22</b>
<b>Michigan</b>							
	Public Supply	577.72	18.70	34.04	577.72	18.60	30.92
	Domestic Supply	0.00	0.00	0.15	0.00	0.00	0.11
	Irrigation	0.22	10.64	7.77	0.14	9.21	6.74
	Livestock	0.00	0.22	0.44	0.00	0.15	0.00
	Industrial	343.51	15.03	30.22	343.51	14.96	29.88
	Fossil Fuel Power	3953.15	143.21	0.12	3953.15	143.21	0.12
	Nuclear Power	52.73	0.00	0.00	52.73	0.00	0.00
	Hydroelectric Power						
	Other	0.00	2.19	2.31	0.00	2.19	2.28
	<b>TOTAL</b>	<b>4927.32</b>	<b>189.99</b>	<b>75.05</b>	<b>4927.24</b>	<b>188.32</b>	<b>70.05</b>
<b>New York</b>							
	Public Supply	181.54	74.46	6.07			
	Domestic Supply	22.96	3.36	18.02	0.00	0.00	3.36
	Irrigation	0.15	0.23	1.43	0.15	0.23	1.43
	Livestock	0.91	2.92	5.03			
	Industrial	142.04	0.87	4.13	142.04	0.00	4.13
	Fossil Fuel Power	664.43	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	44081.00	0.00	0.00	44081.00	0.00	0.00
	Other	0.00	0.93	0.00	0.00	0.93	0.00
	<b>TOTAL</b>	<b>45093.03</b>	<b>82.77</b>	<b>34.68</b>	<b>44223.19</b>	<b>1.16</b>	<b>8.92</b>

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>Ohio</b>							
	Public Supply	406.55	113.25	34.67	406.55	113.13	31.01
	Domestic Supply	0.40	0.00	58.43	0.40	0.00	0.00
	Irrigation	0.44	22.49	4.56	0.43	20.99	3.06
	Livestock	0.00	1.48	10.54	0.00	0.42	0.20
	Industrial	60.42	114.99	50.86	60.42	114.87	50.36
	Fossil Fuel Power	712.52	556.13	0.00	712.52	556.13	0.00
	Nuclear Power	121.24	0.00	0.00	121.24	0.00	0.00
	Hydroelectric Power	0.00	0.00	0.00	0.00	0.00	0.00
	Other	0.90	8.84	0.63	0.90	8.83	0.55
	<b>TOTAL</b>	<b>1302.47</b>	<b>817.18</b>	<b>159.69</b>	<b>1302.46</b>	<b>814.37</b>	<b>85.18</b>
<b>Ontario</b>							
	Public Supply	8.97	29.26	55.66	8.97	29.23	54.64
	Domestic Supply	0.00	0.00	19.94	0.00	0.00	0.00
	Irrigation	0.59	12.11	19.15			
	Livestock	0.02	0.89	12.31			
	Industrial	173.24	0.00	7.21	0.00	0.00	0.00
	Fossil Fuel Power	1479.36	0.00	0.00	1479.36	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	0.00	560.31	0.00	0.00	560.31	0.00
	Other						
	<b>TOTAL</b>	<b>1662.18</b>	<b>602.57</b>	<b>114.27</b>	<b>1488.33</b>	<b>589.54</b>	<b>54.64</b>
<b>Pennsylvania</b>							
	Public Supply	27.72	0.11	1.53	27.72	0.00	1.27
	Domestic Supply						
	Irrigation	0.00	0.09	0.00			
	Livestock	0.00	1.67	0.21	0.00	1.59	0.21
	Industrial	5.31	0.00	0.07	5.31	0.00	0.00
	Fossil Fuel Power						
	Nuclear Power						
	Hydroelectric Power						
	Other	0.00	0.00	0.02			
	<b>TOTAL</b>	<b>33.03</b>	<b>1.86</b>	<b>1.84</b>	<b>33.03</b>	<b>1.59</b>	<b>1.48</b>
<b>Grand Total:</b>		<b>53018.03</b>	<b>1730.97</b>	<b>398.28</b>	<b>51974.25</b>	<b>1631.46</b>	<b>232.49</b>

# BASIN REPORT- Lake Erie

Basin Total

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1202.49	268.47	138.25	1609.20	-0.10	7.55	211.04
Domestic Supply	23.36	3.36	97.15	123.87	0.00	0.00	16.35
Irrigation	1.40	45.97	33.99	81.36	0.00	0.00	44.56
Livestock	0.93	7.17	28.53	36.64	0.00	0.00	19.62
Industrial	724.52	134.39	97.02	955.93	0.00	0.00	106.28
Fossil Fuel Power	6809.47	699.34	0.39	7509.20	0.00	0.00	79.14
Nuclear Power	173.97	0.00	0.00	173.97	0.00	0.00	32.37
Hydroelectric Power	44081.00	560.31	0.00	44641.31	0.00	0.00	0.00
Other	0.90	11.96	2.96	15.81	5816.39	-7.69	4.30

## Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	1020.95	193.65	124.02	1338.62	-0.09	7.55	183.66
Domestic Supply	0.40	0.00	3.91	4.31	0.00	0.00	0.48
Irrigation	0.72	30.72	12.14	43.58	0.00	0.00	39.23
Livestock	0.00	2.16	0.41	2.57	0.00	0.00	2.05
Industrial	551.28	133.33	88.79	773.41	0.00	0.00	94.59
Fossil Fuel Power	6145.04	699.34	0.39	6844.77	0.00	0.00	65.85
Nuclear Power	173.97	0.00	0.00	173.97	0.00	0.00	32.37
Hydroelectric Power	44081.00	560.31	0.00	44641.31	0.00	0.00	0.00
Other	0.90	11.95	2.83	15.67	5816.39	-7.69	4.26



# BASIN REPORT- Lake Ontario

Withdrawals, Diversions  
and Consumptive Uses

Units: Mgal(US)/d  
Year Of Data: 2010

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>New York</b>							
	Public Supply	341.58	9.59	34.16		9.59	0.00
	Domestic Supply	141.81	0.00	14.18		0.00	
	Irrigation	26.07	0.00	23.46	24.06	0.00	21.65
	Livestock	21.27	0.00	19.14		0.00	
	Industrial	90.26	0.00	22.57	90.26	0.00	22.56
	Fossil Fuel Power	571.84	0.00	11.44	309.54	0.00	6.19
	Nuclear Power	1402.60	0.00	70.13	1402.60	0.00	70.13
	Hydroelectric Power	80908.00	0.00	0.00	0.00	0.00	0.00
	Other	61.22	32.00	38.28	61.22	32.00	38.28
	<b>Total</b>	<b>83564.65</b>	<b>41.59</b>	<b>233.36</b>	<b>1887.68</b>	<b>41.59</b>	<b>158.81</b>
<b>Ontario</b>							
	Public Supply	465.93	0.00	69.89	464.62	0.00	69.69
	Domestic Supply	64.17	0.00	9.63	0.00	0.00	0.00
	Irrigation	17.73	0.00			0.00	
	Livestock	5.40	0.00			0.00	
	Industrial	229.64	0.00	14.47	0.00	0.00	0.00
	Fossil Fuel Power	723.03	0.00	6.51	723.03	0.00	6.51
	Nuclear Power	6606.47	0.00	59.46	6606.47	0.00	59.46
	Hydroelectric Power	52353.09	0.00	0.00	52353.09	0.00	0.00
	Other	132.35	0.00	0.00	132.35	0.00	0.00
	<b>Total</b>	<b>60597.81</b>	<b>0.00</b>	<b>159.95</b>	<b>60279.56</b>	<b>0.00</b>	<b>135.66</b>
<b>Pennsylvania</b>							
	Public Supply	0.04		0.00			
	<b>Total</b>	<b>0.04</b>		<b>0.00</b>			
<b>Grand Total:</b>		<b>144162.51</b>	<b>41.59</b>	<b>393.31</b>	<b>62167.24</b>	<b>41.59</b>	<b>294.47</b>

# BASIN REPORT- Lake Ontario

Units: Mgal(US)/d  
Withdrawals by Source  
Year Of Data: 2010

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>New York</b>							
	Public Supply	162.94	152.56	26.08			
	Domestic Supply	29.33	71.79	40.69			
	Irrigation	0.00	24.06	2.01	0.00	24.06	0.00
	Livestock	3.91	7.56	9.80			
	Industrial	14.60	66.93	8.73	14.60	66.93	8.73
	Fossil Fuel Power	262.30	309.54	0.00	0.00	309.54	0.00
	Nuclear Power	1402.60	0.00	0.00	1402.60	0.00	0.00
	Hydroelectric Power	0.00	80908.00	0.00	0.00	0.00	0.00
	Other	0.00	60.18	1.04	0.00	60.18	1.04
	<b>TOTAL</b>	<b>1875.68</b>	<b>81600.62</b>	<b>88.35</b>	<b>1417.20</b>	<b>460.71</b>	<b>9.77</b>
<b>Ontario</b>							
	Public Supply	401.52	52.86	11.56	401.47	52.68	10.47
	Domestic Supply	0.00	0.00	64.17	0.00	0.00	0.00
	Irrigation	1.08	9.53	7.12			
	Livestock	0.00	0.94	4.46			
	Industrial	218.17	0.00	11.46	0.00	0.00	0.00
	Fossil Fuel Power	723.03	0.00	0.00	723.03	0.00	0.00
	Nuclear Power	6606.47	0.00	0.00	6606.47	0.00	0.00
	Hydroelectric Power	37651.12	14701.97	0.00	37651.12	14701.97	0.00
	Other	0.00	132.35	0.00	0.00	132.35	0.00
	<b>TOTAL</b>	<b>45601.40</b>	<b>14897.64</b>	<b>98.77</b>	<b>45382.10</b>	<b>14886.99</b>	<b>10.47</b>
<b>Pennsylvania</b>							
	Public Supply	0.00	0.00	0.04			
	<b>TOTAL</b>	<b>0.00</b>	<b>0.00</b>	<b>0.04</b>			
<b>Grand Total:</b>		<b>47477.08</b>	<b>96498.26</b>	<b>187.17</b>	<b>46799.30</b>	<b>15347.70</b>	<b>20.24</b>

# BASIN REPORT- Lake Ontario

Basin Total

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	564.46	205.42	37.69	807.56	0.00	9.59	104.05
Domestic Supply	29.33	71.79	104.86	205.98	0.00	0.00	23.81
Irrigation	1.08	33.59	9.13	43.80	0.00	0.00	23.46
Livestock	3.91	8.50	14.26	26.67	0.00	0.00	19.14
Industrial	232.77	66.93	20.19	319.90	0.00	0.00	37.03
Fossil Fuel Power	985.33	309.54	0.00	1294.87	0.00	0.00	17.94
Nuclear Power	8009.07	0.00	0.00	8009.07	0.00	0.00	129.59
Hydroelectric Power	37651.12	95609.97	0.00	133261.09	0.00	0.00	0.00
Other	0.00	192.53	1.04	193.57	-5802.39	32.00	38.28

## Total Report - Principal Facilities

Category	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Public Supply	401.47	52.68	10.47	464.62	0.00	9.59	69.69
Domestic Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Irrigation	0.00	24.06	0.00	24.06	0.00	0.00	21.65
Livestock					0.00	0.00	
Industrial	14.60	66.93	8.73	90.26	0.00	0.00	22.56
Fossil Fuel Power	723.03	309.54	0.00	1032.57	0.00	0.00	12.70
Nuclear Power	8009.07	0.00	0.00	8009.07	0.00	0.00	129.59
Hydroelectric Power	37651.12	14701.97	0.00	52353.09	0.00	0.00	0.00
Other	0.00	192.53	1.04	193.57	-5802.39	32.00	38.28

# BASIN REPORT- St. Lawrence River

Withdrawals, Diversions  
and Consumptive Uses

Units: Mgal(US)/d  
Year Of Data: 2010

Jurisdiction	Category	All Facilities			Principal Facilities		
		Withdr.	Inter-Basin Diver.	Consum.	Withdr.	Inter-Basin Diver.	Consum.
<b>New York</b>							
	Public Supply	48.31	0.00	4.83		0.00	
	Domestic Supply	22.01	0.00	2.20	8.54	0.00	0.85
	Irrigation	1.08	0.00	0.97	1.08	0.00	0.97
	Livestock	15.03	0.00	13.52		0.00	
	Industrial	32.27	0.00	8.07	28.89	0.00	7.22
	Fossil Fuel Power	0.01	0.00	0.00	0.01	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	183748.00	0.00	0.00	85056.00	0.00	0.00
	Other	7.59	0.00	0.76	7.59	0.00	0.76
	<b>Total</b>	<b>183874.30</b>	<b>0.00</b>	<b>30.35</b>	<b>85102.11</b>	<b>0.00</b>	<b>9.80</b>
<b>Ontario</b>							
	Public Supply	73.03	0.00	10.96	72.08	0.00	10.82
	Domestic Supply	11.45	0.00	1.72	0.00	0.00	0.00
	Irrigation	2.35	0.00			0.00	
	Livestock	5.91	0.00			0.00	
	Industrial	160.81	0.00	10.13	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	157232.03	0.00	0.00	157232.03	0.00	0.00
	Other	19.28	0.00	0.00	19.28	0.00	0.00
	<b>Total</b>	<b>157504.86</b>	<b>0.00</b>	<b>22.80</b>	<b>157323.39</b>	<b>0.00</b>	<b>10.82</b>
<b>Quebec</b>							
	Public Supply	1100.01	0.00	109.90	1096.05	0.00	109.63
	Domestic Supply	71.59	0.00	7.13	48.61	0.00	4.76
	Irrigation	9.22	0.00	8.30		0.00	
	Livestock	19.10	0.00	15.28		0.00	
	Industrial	125.48	0.00	12.55	124.95	0.00	12.50
	Fossil Fuel Power	47.02	0.00	4.70	47.02	0.00	4.70
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	303895.85	0.00	0.00	303895.85	0.00	0.00
	Other		0.00			0.00	
	<b>Total</b>	<b>305268.28</b>	<b>0.00</b>	<b>157.86</b>	<b>305212.48</b>	<b>0.00</b>	<b>131.58</b>
<b>Grand Total:</b>		<b>646647.44</b>	<b>0.00</b>	<b>211.01</b>	<b>547637.99</b>	<b>0.00</b>	<b>152.20</b>

# BASIN REPORT- St. Lawrence River

Units: Mgal(US)/d  
 Withdrawals by Source  
 Year Of Data: 2010

Jurisdiction	Category	All Facilities			Principle Facilities		
		GLSW	OSW	GW	GLSW	OSW	GW
<b>New York</b>							
	Public Supply	7.88	35.95	4.48			
	Domestic Supply	0.00	8.54	13.47	0.00	8.54	0.00
	Irrigation	0.00	1.08	0.00	0.00	1.08	0.00
	Livestock	0.38	10.56	4.09			
	Industrial	2.13	26.76	3.38	2.13	26.76	0.00
	Fossil Fuel Power	0.01	0.00	0.00	0.01	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	85056.00	98692.00	0.00	85056.00	0.00	0.00
	Other	0.00	7.20	0.39	0.00	7.20	0.39
	<b>TOTAL</b>	<b>85066.40</b>	<b>98782.09</b>	<b>25.81</b>	<b>85058.14</b>	<b>43.58</b>	<b>0.39</b>
<b>Ontario</b>							
	Public Supply	10.64	58.84	3.56	10.64	58.52	2.93
	Domestic Supply	0.00	0.00	11.45	0.00	0.00	0.00
	Irrigation	0.01	2.04	0.30			
	Livestock	0.00	3.63	2.28			
	Industrial	159.76	0.00	1.05	0.00	0.00	0.00
	Fossil Fuel Power	0.00	0.00	0.00	0.00	0.00	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	85452.52	71779.51	0.00	85452.52	71779.51	0.00
	Other	0.00	19.28	0.00	0.00	19.28	0.00
	<b>TOTAL</b>	<b>85622.93</b>	<b>71863.29</b>	<b>18.65</b>	<b>85463.16</b>	<b>71857.31</b>	<b>2.93</b>
<b>Quebec</b>							
	Public Supply	602.84	497.17	0.00	602.58	493.47	0.00
	Domestic Supply	0.00	0.00	71.59	0.00	0.00	48.61
	Irrigation	0.00	0.00	9.22			
	Livestock	0.00	0.00	19.10			
	Industrial	0.00	125.48	0.00	0.00	124.95	0.00
	Fossil Fuel Power	39.10	7.93	0.00	39.10	7.93	0.00
	Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00
	Hydroelectric Power	170946.25	132949.60	0.00	170946.25	132949.60	0.00
	Other						
	<b>TOTAL</b>	<b>171588.19</b>	<b>133580.18</b>	<b>99.91</b>	<b>171587.93</b>	<b>133575.95</b>	<b>48.61</b>
<b>Grand Total:</b>		<b>342277.52</b>	<b>304225.56</b>	<b>144.37</b>	<b>342109.23</b>	<b>205476.84</b>	<b>51.92</b>

# BASIN REPORT- St. Lawrence River

Basin Total

Units: Mgal(US)/d

Year Of Data: 2010

## Total Report - All Facilities

Category	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Public Supply	621.36	591.96	8.04	1221.35	0.00	0.00	125.68
Domestic Supply	0.00	8.54	96.51	105.05	0.00	0.00	11.05
Irrigation	0.01	3.12	9.52	12.65	0.00	0.00	9.27
Livestock	0.38	14.19	25.47	40.04	0.00	0.00	28.80
Industrial	161.89	152.24	4.43	318.56	0.00	0.00	30.75
Fossil Fuel Power	39.11	7.93	0.00	47.03	0.00	0.00	4.70
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	341454.78	303421.10	0.00	644875.88	0.00	0.00	0.00
Other	0.00	26.48	0.39	26.87	0.00	0.00	0.76

## Total Report - Principal Facilities

Category	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Public Supply	613.22	551.99	2.93	1168.13	0.00	0.00	120.45
Domestic Supply	0.00	8.54	48.61	57.15	0.00	0.00	5.61
Irrigation	0.00	1.08	0.00	1.08	0.00	0.00	0.97
Livestock					0.00	0.00	
Industrial	2.13	151.71	0.00	153.84	0.00	0.00	19.72
Fossil Fuel Power	39.11	7.93	0.00	47.03	0.00	0.00	4.70
Nuclear Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydroelectric Power	341454.78	204729.10	0.00	546183.88	0.00	0.00	0.00
Other	0.00	26.48	0.39	26.87	0.00	0.00	0.76

## Water Use Category Tables

Each of the 9 water use categories is represented by two tables:

- Water use by jurisdiction; and
- Water use by basin.

# WATER-USE CATEGORY REPORT - Public Supply

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	903.05	0.00	0.00	903.05	0.00	903.05	0.00
Indiana	88.37	32.69	48.60	169.66	0.00	57.98	25.45
Michigan	677.06	19.72	55.87	752.66	-0.10		94.08
Minnesota	30.61	1.81	5.22	37.64	0.00	0.00	3.76
New York	352.36	262.97	36.63	651.96	0.00	9.59	65.20
Ohio	406.55	113.25	34.67	554.47	0.00	0.32	83.17
Ontario	493.88	177.55	91.57	763.00	0.00	0.00	114.45
Pennsylvania	27.72	0.11	1.58	29.40			2.94
Quebec	602.84	497.17	0.00	1100.01	0.00	0.00	109.90
Wisconsin	197.23	20.66	51.97	269.86	0.00	0.54	26.98

## Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	903.05	0.00	0.00	903.05	0.00	903.05	0.00
Indiana	88.37	32.69	48.17	169.23	0.00	58.07	25.39
Michigan	676.84	19.63	50.20	746.67	-0.09		93.33
Minnesota	30.61	1.80	4.96	37.37	0.00	0.00	3.74
New York					0.00	9.59	0.00
Ohio	406.55	113.13	31.01	550.69	0.00	0.32	82.60
Ontario	493.17	176.61	87.00	756.78	0.00	0.00	113.52
Pennsylvania	27.72	0.00	1.27	28.98			2.90
Quebec	602.58	493.47	0.00	1096.05	0.00	0.00	109.63
Wisconsin							



# WATER-USE CATEGORY REPORT - Public Supply

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	66.28	14.84	8.61	89.73	0.00	0.54	11.38
Lake Michigan	1188.01	20.66	93.56	1302.23	0.00	953.80	46.46
Lake Huron	137.07	24.59	39.97	201.64	0.00	0.00	27.31
Lake Erie	1202.49	268.47	138.25	1609.20	-0.10	7.55	211.04
Lake Ontario	564.46	205.42	37.69	807.56	0.00	9.59	104.05
St. Lawrence River	621.36	591.96	8.04	1221.35	0.00	0.00	125.68

## Water-Use by Basin - Principal Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	65.61	14.76	7.51	87.88	0.00	0.00	11.19
Lake Michigan	991.42	0.00	41.99	1033.41	0.00	953.89	19.56
Lake Huron	136.22	24.26	35.69	196.16	0.00	0.00	26.56
Lake Erie	1020.95	193.65	124.02	1338.62	-0.09	7.55	183.66
Lake Ontario	401.47	52.68	10.47	464.62	0.00	9.59	69.69
St. Lawrence River	613.22	551.99	2.93	1168.13	0.00	0.00	120.45

# WATER-USE CATEGORY REPORT - Domestic Supply

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	2.35	0.00	0.00	2.35	0.00	2.35	0.00
Indiana	0.00	25.67	7.91	33.58	0.00	0.00	5.04
Michigan	0.00	0.00	3.38	3.38			0.42
Minnesota	0.75	0.43	0.04	1.22	0.00	0.00	0.12
New York	52.29	83.69	72.18	208.16	0.00	0.00	20.81
Ohio	0.40	0.00	58.43	58.83	0.00	0.00	8.82
Ontario	0.00	0.00	107.91	107.91	0.00	0.00	16.19
Pennsylvania							
Quebec	0.00	0.00	71.59	71.59	0.00	0.00	7.13
Wisconsin	0.09	1.63	1.32	3.04	0.00	0.50	0.30

## Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	2.35	0.00	0.00	2.35	0.00	2.35	0.00
Indiana	0.00	25.64	6.99	32.63	0.00	0.00	4.90
Michigan	0.00	0.00	2.94	2.94			0.37
Minnesota	0.72	0.43	0.00	1.15	0.00	0.00	0.11
New York	0.00	8.54	0.00	8.54	0.00	0.00	0.85
Ohio	0.40	0.00	0.00	0.40	0.00	0.00	0.06
Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennsylvania							
Quebec	0.00	0.00	48.61	48.61	0.00	0.00	4.76
Wisconsin							

# WATER-USE CATEGORY REPORT - Domestic Supply

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Basin - All Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	0.75	0.43	1.80	2.98	0.00	0.00	0.38
Lake Michigan	2.44	27.30	11.78	41.52	0.00	2.85	5.65
Lake Huron	0.00	0.00	10.67	10.67	0.00	0.00	1.60
Lake Erie	23.36	3.36	97.15	123.87	0.00	0.00	16.35
Lake Ontario	29.33	71.79	104.86	205.98	0.00	0.00	23.81
St. Lawrence River	0.00	8.54	96.51	105.05	0.00	0.00	11.05

## Water-Use by Basin - Principal Facilities

Basin	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Lake Superior	0.72	0.43	0.00	1.15	0.00	0.00	0.11
Lake Michigan	2.35	25.64	9.38	37.37	0.00	2.35	5.18
Lake Huron	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Erie	0.40	0.00	0.55	0.95	0.00	0.00	0.14
Lake Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00
St. Lawrence River	0.00	8.54	48.61	57.15	0.00	0.00	5.61

# WATER-USE CATEGORY REPORT - Irrigation

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	0.00	0.00	0.08	0.08	0.00	0.00	0.00
Indiana	0.00	8.23	35.21	43.44	0.00	0.00	39.10
Michigan	0.63	76.46	156.78	233.87			210.49
Minnesota	0.06	0.45	0.05	0.56	0.00	0.03	0.49
New York	0.15	25.37	3.44	28.96	0.00	0.00	26.06
Ohio	0.44	22.49	4.56	27.49	0.00	0.00	24.74
Ontario	1.86	39.39	31.97	73.22	0.00	0.00	
Pennsylvania	0.00	0.09	0.00	0.09			0.08
Quebec	0.00	0.00	9.22	9.22	0.00	0.00	8.30
Wisconsin	0.00	1.08	17.55	18.63	0.00	0.00	13.04

## Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois	0.00	0.00	0.08	0.08	0.00	0.00	0.00
Indiana	0.00	7.88	34.66	42.54	0.00	0.00	38.29
Michigan	0.48	68.82	146.49	215.79			194.21
Minnesota	0.00	0.00	0.00	0.00	0.00	0.00	0.00
New York	0.00	25.14	0.00	25.14	0.00	0.00	22.62
Ohio	0.43	20.99	3.06	24.48	0.00	0.00	22.04
Ontario					0.00	0.00	
Pennsylvania							
Quebec					0.00	0.00	
Wisconsin							

# WATER-USE CATEGORY REPORT- Irrigation

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.09	0.76	0.64	1.49	0.00	0.03	0.99
Lake Michigan	0.27	63.03	188.82	252.12	0.00	0.00	223.12
Lake Huron	0.29	27.09	16.75	44.14	0.00	0.00	20.90
Lake Erie	1.40	45.97	33.99	81.36	0.00	0.00	44.56
Lake Ontario	1.08	33.59	9.13	43.80	0.00	0.00	23.46
St. Lawrence River	0.01	3.12	9.52	12.65	0.00	0.00	9.27

## Water-Use by Basin - Principal Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.00	0.00	0.52	0.52	0.00	0.00	0.47
Lake Michigan	0.24	56.54	162.09	218.87	0.00	0.00	196.92
Lake Huron	0.10	10.67	10.97	21.73	0.00	0.00	19.56
Lake Erie	0.57	30.49	10.71	41.77	0.00	0.00	37.60
Lake Ontario	0.00	24.06	0.00	24.06	0.00	0.00	21.65
St. Lawrence River	0.00	1.08	0.00	1.08	0.00	0.00	0.97

# WATER-USE CATEGORY REPORT- Livestock

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois							
Indiana	0.00	1.15	2.64	3.79	0.00	0.00	3.03
Michigan	0.00	2.05	6.11	8.16			6.53
Minnesota	0.81	0.00	0.00	0.81	0.00	0.00	0.72
New York	5.20	21.04	18.92	45.16	0.00	0.00	40.64
Ohio	0.00	1.48	10.54	12.02	0.00	0.00	9.61
Ontario	2.95	8.67	25.47	37.09	0.00	0.00	
Pennsylvania	0.00	1.67	0.21	1.88			1.50
Quebec	0.00	0.00	19.10	19.10	0.00	0.00	15.28
Wisconsin	0.00	18.35	11.41	29.76	0.00	0.00	26.78

## Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois							
Indiana	0.00	1.15	2.61	3.76	0.00	0.00	3.01
Michigan	0.00	1.93	1.94	3.87			3.10
Minnesota	0.74	0.00	0.00	0.74	0.00	0.00	0.67
New York					0.00	0.00	
Ohio	0.00	0.42	0.20	0.62	0.00	0.00	0.49
Ontario					0.00	0.00	
Pennsylvania	0.00	1.59	0.21	1.80			1.44
Quebec					0.00	0.00	
Wisconsin							

# WATER-USE CATEGORY REPORT- Livestock

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.81	6.60	0.00	7.41	0.00	0.00	6.53
Lake Michigan	0.00	14.16	18.35	32.52	0.00	0.00	28.34
Lake Huron	2.93	3.78	7.77	14.49	0.00	0.00	1.66
Lake Erie	0.93	7.17	28.53	36.64	0.00	0.00	19.62
Lake Ontario	3.91	8.50	14.26	26.67	0.00	0.00	19.14
St. Lawrence River	0.38	14.19	25.47	40.04	0.00	0.00	28.80

## Water-Use by Basin - Principal Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.74	0.00	0.00	0.74	0.00	0.00	0.67
Lake Michigan	0.00	2.22	4.04	6.26	0.00	0.00	5.01
Lake Huron	0.00	0.71	0.52	1.23	0.00	0.00	0.98
Lake Erie	0.00	2.16	0.41	2.57	0.00	0.00	2.05
Lake Ontario					0.00	0.00	
St. Lawrence River					0.00	0.00	

# WATER-USE CATEGORY REPORT- Industrial

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	17.55	0.00	0.00	17.55	0.00	0.01	0.17
Indiana	1529.95	6.02	10.56	1546.53	0.00	24.32	92.79
Michigan	410.93	188.23	128.21	727.37			72.74
Minnesota	123.96	77.11	0.13	201.20	0.00	8.51	20.12
New York	158.77	94.56	16.24	269.57	0.00	0.00	67.48
Ohio	60.42	114.99	50.86	226.27	0.00	0.00	18.17
Ontario	900.71	0.00	22.51	923.22	0.00	0.00	58.16
Pennsylvania	5.31	0.00	0.07	5.38			0.54
Quebec	0.00	125.48	0.00	125.48	0.00	0.00	12.55
Wisconsin	0.36	161.79	13.28	175.43	0.00	0.00	17.54

## Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	17.55	0.00	0.00	17.55	0.00	0.01	0.17
Indiana	1529.95	6.02	10.07	1546.04	0.00	24.32	92.77
Michigan	410.91	188.05	126.02	724.99			72.50
Minnesota	123.87	76.88	0.11	200.86	0.00	8.51	20.09
New York	158.77	93.69	12.86	265.32	0.00	0.00	66.41
Ohio	60.42	114.87	50.36	225.65	0.00	0.00	18.11
Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennsylvania	5.31	0.00	0.00	5.31			0.53
Quebec	0.00	124.95	0.00	124.95	0.00	0.00	12.50
Wisconsin							



# WATER-USE CATEGORY REPORT- Industrial

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	290.95	77.14	0.35	368.45	0.00	8.51	30.84
Lake Michigan	1594.50	300.75	96.08	1991.33	0.00	24.33	136.01
Lake Huron	203.31	36.73	23.77	263.82	0.00	0.00	19.34
Lake Erie	724.52	134.39	97.02	955.93	0.00	0.00	106.28
Lake Ontario	232.77	66.93	20.19	319.90	0.00	0.00	37.03
St. Lawrence River	161.89	152.24	4.43	318.56	0.00	0.00	30.75

## Water-Use by Basin - Principal Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	128.40	76.88	0.11	205.39	0.00	8.51	20.54
Lake Michigan	1594.47	138.94	81.08	1814.49	0.00	24.33	118.34
Lake Huron	15.90	36.67	20.71	73.27	0.00	0.00	7.33
Lake Erie	551.28	133.33	88.79	773.41	0.00	0.00	94.59
Lake Ontario	14.60	66.93	8.73	90.26	0.00	0.00	22.56
St. Lawrence River	2.13	151.71	0.00	153.84	0.00	0.00	19.72

# WATER-USE CATEGORY REPORT - Fossil Fuel Power

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	965.32	0.00	0.00	965.32	0.00	0.00	0.00
Indiana	664.48	0.00	0.27	664.75	0.00	0.00	13.30
Michigan	5092.08	1237.44	3.31	6332.83			70.91
Minnesota	245.30	158.52	0.01	403.83	0.00	0.00	8.08
New York	926.74	309.54	0.00	1236.28	0.00	0.00	24.73
Ohio	712.52	556.13	0.00	1268.65	0.00	0.00	12.69
Ontario	2283.46	0.00	0.00	2283.46	0.00	0.00	20.55
Pennsylvania							
Quebec	39.10	7.93	0.00	47.02	0.00	0.00	4.70
Wisconsin	2318.62	395.53	0.02	2714.17	0.00	0.00	13.58

## Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	965.32	0.00	0.00	965.32	0.00	0.00	0.00
Indiana	664.48	0.00	0.27	664.75	0.00	0.00	13.30
Michigan	5092.08	1237.44	3.30	6332.82			70.91
Minnesota	245.30	158.52	0.00	403.82	0.00	0.00	8.08
New York	0.01	309.54	0.00	309.55	0.00	0.00	6.19
Ohio	712.52	556.13	0.00	1268.65	0.00	0.00	12.69
Ontario	2283.46	0.00	0.00	2283.46	0.00	0.00	20.55
Pennsylvania							
Quebec	39.10	7.93	0.00	47.02	0.00	0.00	4.70
Wisconsin							

# WATER-USE CATEGORY REPORT - Fossil Fuel Power

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	572.27	158.52	0.03	730.82	0.00	0.00	9.35
Lake Michigan	4674.57	890.78	2.35	5567.70	0.00	0.00	56.11
Lake Huron	166.86	598.97	0.84	766.67	0.00	0.00	1.30
Lake Erie	6809.47	699.34	0.39	7509.20	0.00	0.00	79.14
Lake Ontario	985.33	309.54	0.00	1294.87	0.00	0.00	17.94
St. Lawrence River	39.11	7.93	0.00	47.03	0.00	0.00	4.70

## Water-Use by Basin - Principal Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	537.20	158.52	0.00	695.72	0.00	0.00	9.17
Lake Michigan	2391.02	495.25	2.34	2888.62	0.00	0.00	42.71
Lake Huron	166.86	598.97	0.84	766.67	0.00	0.00	1.30
Lake Erie	6145.04	699.34	0.39	6844.77	0.00	0.00	65.85
Lake Ontario	723.03	309.54	0.00	1032.57	0.00	0.00	12.70
St. Lawrence River	39.11	7.93	0.00	47.03	0.00	0.00	4.70

# WATER-USE CATEGORY REPORT - Nuclear Power

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	31.68	0.00	0.00	31.68	0.00	0.00	0.00
Indiana	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Michigan	2178.87	0.00	0.00	2178.87			42.05
Minnesota	0.00	0.00	0.00	0.00	0.00	0.00	0.00
New York	1402.60	0.00	0.00	1402.60	0.00	0.00	70.13
Ohio	121.24	0.00	0.00	121.24	0.00	0.00	12.12
Ontario	12302.21	0.00	0.00	12302.21	0.00	0.00	110.72
Pennsylvania							
Quebec	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wisconsin	1389.93	0.00	0.05	1389.98	0.00	0.00	6.95

## Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	31.68	0.00	0.00	31.68	0.00	0.00	0.00
Indiana	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Michigan	2178.87	0.00	0.00	2178.87			42.05
Minnesota	0.00	0.00	0.00	0.00	0.00	0.00	0.00
New York	1402.60	0.00	0.00	1402.60	0.00	0.00	70.13
Ohio	121.24	0.00	0.00	121.24	0.00	0.00	12.12
Ontario	12302.21	0.00	0.00	12302.21	0.00	0.00	110.72
Pennsylvania							
Quebec	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wisconsin							

# WATER-USE CATEGORY REPORT- Nuclear Power

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Basin - All 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	3547.75	0.00	0.05	3547.80	0.00	0.00	28.75
Lake Huron	5695.74	0.00	0.00	5695.74	0.00	0.00	51.26
Lake Erie	173.97	0.00	0.00	173.97	0.00	0.00	32.37
Lake Ontario	8009.07	0.00	0.00	8009.07	0.00	0.00	129.59
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				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	2157.82	0.00	0.00	2157.82	0.00	0.00	21.80
Lake Huron	5695.74	0.00	0.00	5695.74	0.00	0.00	51.26
Lake Erie	173.97	0.00	0.00	173.97	0.00	0.00	32.37
Lake Ontario	8009.07	0.00	0.00	8009.07	0.00	0.00	129.59
St. Lawrence River	0.00	0.00	0.00	0.00	0.00	0.00	0.00

# WATER-USE CATEGORY REPORT - Hydroelectric Power

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois							
Indiana	0.00	1955.59	0.00	1955.59	0.00	0.00	0.00
Michigan							
Minnesota	0.00	3471.70	0.00	3471.70	0.00	0.00	0.00
New York	129137.00	179600.00	0.00	308737.00	0.00	0.00	0.00
Ohio	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ontario	142298.91	144296.84	0.00	286595.75	0.00	-4007.75	0.00
Pennsylvania							
Quebec	170946.25	132949.60	0.00	303895.85	0.00	0.00	0.00
Wisconsin					0.00	0.00	

## Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Illinois							
Indiana	0.00	1955.59	0.00	1955.59	0.00	0.00	0.00
Michigan							
Minnesota	0.00	3471.70	0.00	3471.70	0.00	0.00	0.00
New York	129137.00	0.00	0.00	129137.00	0.00	0.00	0.00
Ohio	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ontario	142298.91	144296.84	0.00	286595.75	0.00	0.00	0.00
Pennsylvania							
Quebec	170946.25	132949.60	0.00	303895.85	0.00	0.00	0.00
Wisconsin							

# WATER-USE CATEGORY REPORT- Hydroelectric Power

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.00	39488.65	0.00	39488.65	0.00	-4007.75	0.00
Lake Michigan	0.00	1955.59	0.00	1955.59	0.00	0.00	0.00
Lake Huron	19195.27	21238.11	0.00	40433.38	0.00	0.00	0.00
Lake Erie	44081.00	560.31	0.00	44641.31	0.00	0.00	0.00
Lake Ontario	37651.12	95609.97	0.00	133261.09	0.00	0.00	0.00
St. Lawrence River	341454.78	303421.10	0.00	644875.88	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	39488.65	0.00	39488.65	0.00	0.00	0.00
Lake Michigan	0.00	1955.59	0.00	1955.59	0.00	0.00	0.00
Lake Huron	19195.27	21238.11	0.00	40433.38	0.00	0.00	0.00
Lake Erie	44081.00	560.31	0.00	44641.31	0.00	0.00	0.00
Lake Ontario	37651.12	14701.97	0.00	52353.09	0.00	0.00	0.00
St. Lawrence River	341454.78	204729.10	0.00	546183.88	0.00	0.00	0.00

# WATER-USE CATEGORY REPORT- Other

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Jurisdiction - All Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	242.68	0.00	0.00	242.68	0.00	242.68	0.00
Indiana	0.00	0.00	0.11	0.11	0.00	0.00	0.01
Michigan	0.00	2.19	6.11	8.30			0.00
Minnesota	0.00	0.00	0.16	0.16	0.00	0.00	0.00
New York	0.00	68.31	1.43	69.74	0.00	32.00	39.13
Ohio	0.90	8.84	0.63	10.37	0.00	-7.69	4.21
Ontario	0.00	199.61	0.00	199.61	61.97	0.00	0.00
Pennsylvania	0.00	0.00	0.02	0.02			
Quebec					0.00	0.00	
Wisconsin	0.00	0.00	0.74	0.74	0.00	-25.85	0.00

## Water-Use by Jurisdiction - Principal Facilities

Jurisdiction	Withdrawals			TOTAL	Diversions		Consumptive Use
	GLSW	OSW	GW		Intrabasin	Interbasin	
Illinois	242.68	0.00	0.00	242.68	0.00	242.68	0.00
Indiana	0.00	0.00	0.07	0.07	0.00	0.00	0.01
Michigan	0.00	2.19	6.05	8.24			0.00
Minnesota	0.00	0.00	0.14	0.14	0.00	0.00	0.00
New York	0.00	68.31	1.43	69.74	0.00	32.00	39.13
Ohio	0.90	8.83	0.55	10.28	0.00	-7.69	4.17
Ontario	0.00	199.61	0.00	199.61	61.97	0.00	0.00
Pennsylvania							
Quebec					0.00	0.00	
Wisconsin							



# WATER-USE CATEGORY REPORT- Other

Units: Mgal(US)/d

Year Of Data: 2010

## Water-Use by Basin - All Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.00	0.00	0.16	0.16	0.00	0.00	0.00
Lake Michigan	242.68	0.00	4.66	247.33	0.00	216.83	0.01
Lake Huron	0.00	47.97	0.00	47.97	47.97	0.00	0.00
Lake Erie	0.90	11.96	2.96	15.81	5816.39	-7.69	4.30
Lake Ontario	0.00	192.53	1.04	193.57	-5802.39	32.00	38.28
St. Lawrence River	0.00	26.48	0.39	26.87	0.00	0.00	0.76

## Water-Use by Basin - Principal Facilities

Basin	Withdrawals				Diversions		Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	
Lake Superior	0.00	0.00	0.14	0.14	0.00	0.00	0.00
Lake Michigan	242.68	0.00	3.85	246.52	0.00	242.68	0.01
Lake Huron	0.00	47.97	0.00	47.97	47.97	0.00	0.00
Lake Erie	0.90	11.95	2.83	15.67	5816.39	-7.69	4.26
Lake Ontario	0.00	192.53	1.04	193.57	-5802.39	32.00	38.28
St. Lawrence River	0.00	26.48	0.39	26.87	0.00	0.00	0.76