

**ANNUAL REPORT
of the
GREAT LAKES REGIONAL WATER USE
DATA BASE REPOSITORY**

Representing 1991 Water Use Data

Draft Report

Prepared by:
Great Lakes Commission

Prepared for:
Water Resources Management Committee

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PREFACE

The Great Lakes Regional Water Use Data Base Repository, housed at the Great Lakes Commission, provides a centralized source of information on Great Lakes water withdrawals, diversions, and consumptive uses throughout the U.S. - Canada Great Lakes Basin. The Commission prepares an annual report, based upon data submitted by the eight Great Lakes states and two Canadian provinces. The data is organized on the basis of political jurisdiction, lake sub-basin and category of water use.

This 1993 report presents 1991 water use data, as submitted by the Great Lakes states and provinces. It is organized into three principal sections:

- An introduction, which describes the structure and operation of the Data Base Repository, the role of state and provincial members of the Water Resources Management Committee, and issues associated with data reporting and analysis.
- A Great Lakes Basin Summary, that provides an overview of basin water use by jurisdiction, sub-basin and use category. Much of this information is presented via pie charts to facilitate review.
- An extensive set of appendices, comprised of computer printouts, that present water use data as submitted by the states and provinces.

The Great Lakes Commission welcomes all inquiries concerning the Great Lakes Regional Water Use Data Base Repository. Please call 313-665-9135 for information.

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SECTION ONE

BACKGROUND ON THE GREAT LAKES REGIONAL WATER USE DATA BASE REPOSITORY

Extensive background information on the establishment of the Regional Water Use Data Base Repository appears in the February 1989 report of the Water Resources Management Committee to the Great Lakes Governors and Premiers. Copies are available upon request from the Great Lakes Commission.

The Regional Water Use Data Base has been operational since the summer of 1988, following a multi-year cooperative effort in the design and development of the database system. This included input from, and involvement of, numerous state, provincial and federal agencies. Much of the leadership on this effort was provided by the U.S. Geological Survey (USGS). Also, in the fall of 1987, the Great Lakes Commission contracted Acres International Ltd. of Niagara Falls, Ontario to develop, document and install the system and to provide state, provincial, and Commission staff training.

The operation and use of this database system represents one of several ongoing activities on behalf of the Great Lakes states and provinces to fulfill obligations of the Great Lakes Charter, signed in 1985 by the Great Lakes governors and premiers. Continued state/provincial interest in refining and expanding the database is necessary to ensure that the database can support other ongoing Charter initiatives, such as the development of a Basin Water Resources Management Plan, demand forecasting techniques and regional water conservation programs.

ISSUES REGARDING THE OPERATION OF THE DATABASE

Substantial progress has been made in addressing the various issues and problems encountered in the preparation of the first four annual reports of the Regional Water Use Data Base Repository, representing water use data for 1987-90.

The single largest challenge at present relates to each jurisdiction's ability to provide complete water use data coinciding with the calendar year that the annual report represents.

The following are jurisdiction-specific issues and problems that will require priority attention by the WRMC during 1993-1994:

- The water use data collecting and reporting situation has not yet been rectified in Michigan, despite legislation passed in December 1990 designed to strengthen the state's water management efforts through a mandatory reporting program. Michigan was unable to submit complete water use data for calendar year 1991. The summary data presented for the Michigan Great Lakes Basin is therefore the same data submitted for the first four annual reports.

The base year of this data is 1985 and represents only five categories of use: public water supply (category 1); self supply - irrigation (category 4); self supply - industrial (category 6); self supply -thermoelectric (fossil fuel plants)(category 7); and self supply - thermoelectric (nuclear plants)(category 8). Complete data were provided only for the last two categories. According to the Michigan Department of Natural Resources, Categories 7 and 8 represent about 75 percent of the total water withdrawals from the Michigan Great Lakes Basin.

Also, the withdrawal and consumptive use data provided for public water supply (category 1), self supply - irrigation (category 4), and self supply - industrial (category 6) cannot presently be reported by individual sub-basin or water withdrawal type.

Incorporation of jurisdiction-wide summary data represents a considerable problem for the Repository when data submittals do not comply with the parameters of the database. Statewide totals that cannot be broken down by sub-basin or withdrawal type must be inserted into the summary tables by the Repository prior to printing. Since these total figures cannot be entered into the database program, automatic generation of multiple tables or summary reports with different units of measurement is not possible. The incomplete nature of the data stored prevents the repository from providing diskette copies of the yearly data to jurisdictions for their own use.

- Pennsylvania indicates that its data collection and reporting operations are constrained by the number of personnel available. Data reported by various water users are not added to the Commonwealth's computerized database annually. As a result, some of the data submitted to the Great Lakes Commission for this 1993 annual report are drawn from earlier reports. Public water suppliers complete and submit an annual water supply report, but only half of the reports are entered into the system each year. Some 16,000 industrial water users are surveyed on a cycle, which totally updates files every third year. Other water users are added to the system on a recurring, but not necessarily annual basis. With the extremely limited number of users and withdrawals in the Great Lakes area of Pennsylvania, manual tracking may be the best way to provide the overview necessary to ensure that the appropriate information is furnished annually.

STATE AND PROVINCIAL ACTIVITIES

In October 1988, the Water Resources Management Committee asked the Great Lakes Commission to convene a Technical Work Group to begin developing uniform estimation procedures for water withdrawal and consumptive use information, and to address a series of regional priority issues regarding the operation of the Regional Water Use Database. These issues were identified in the February 1989 Report of the Water Resources Management Committee to the Great Lakes Governors and Premiers, which included the First Annual Report of the Regional Water Use Data Base.

The Technical Work Group met via telephone conference call on numerous occasions from late 1988 through 1989 to begin addressing these issues. The group met once in 1990, once in 1991, and once in late 1992 to continue its work and to discuss problem areas related to the state/provincial data submittals and operation of the database. Work Group participants represent various state, provincial, and federal agencies and are listed in the acknowledgement of this report.

The Work Group has concentrated its efforts on ensuring that each jurisdiction will be able to report the most complete, uniform data possible to the Repository. To do this, the group focused its early attention on refining and expanding the definitions of the nine active categories of use in the Regional Water Use Database. Additional expansion of the category of use definitions was recommended during the July 1990 work group meeting.

A starting point for discussion was provided by review of the December 1986 USGS report, *Water Use Data Collection Programs and Regional Data Base in the Great Lakes - St. Lawrence River States and Provinces* (open File Report 86-546), and the February 1987 Water Resources Management Committee report, *Managing the Waters of the Great Lakes Basin*.

The water use categories for the Regional Water Use Data Base are shown in Table 1.

Table 1
Water Use Categories

Number	Name
1	Public Supply
2	Reserved for Future Use
3	Self Supply - Domestic (Residential, Commercial, Institutional)
4	Self Supply - Irrigation
5	Self Supply - Livestock
6	Self Supply - Industrial (Manufacturing and Mining)
7	Self Supply - Thermoelectric Power - Fossil Fuel Plants
8	Self Supply - Thermoelectric Power - Nuclear Plants
9	Self Supply - Hydroelectric Power
10	Other (Navigation, Water Quality, Environmental)

The original definitions of these categories appear in *Managing the Waters of the Great Lakes Basin* (pp. 21-22; French version pp. 23-24). Table 2 incorporates the Technical Work Group's revisions. The descriptions appearing in normal type represent the original definitions. Italics highlight the revisions or expansions that were arrived at through extended discussion.

Table 2

CATEGORIES OF USE FOR
THE REGIONAL WATER USE DATA BASE

Final Definitions

1. Public Water Supply - Water withdrawn for all uses by public and private water suppliers and delivered to users that do not supply their own water. (Water suppliers provide water for a variety of uses such as residential, commercial, industrial and public water use.)
2. Reserved for Future Use - (This category represents unused capacity on the database system.)
3. Self Supply - Domestic (residential, commercial, institutional) - Water used for normal household purposes. Also referred to as residential water use, this category includes water used for drinking, food preparation, bathing, washing clothes and dishes, flushing toilets, and watering lawns. *Commercial uses include water used by motels, hotels, restaurants, offices buildings and institutions, both civilian and military. This category also includes water for mobile homes, hospitals, schools, fire fighting, air conditioning and other similar uses that are not covered under a public supply. In addition, this category includes amusement and recreational services and activities for uses such as snow making and water slides. The coefficients for domestic per capita water use is 75 gallons per day (U.S.) unless otherwise indicated by the reporting state or province.*
4. 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.
5. Self Supply - Livestock - *Water used by horses, cattle, sheep, goats, hogs, poultry, and other commercially important animals. Includes water used in fish hatchery operation.*
6. 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; 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 uses in a closed cycle (recirculation) will not be reported as a withdrawal. Other situations should be evaluated on a case-by-case basis.*
7. 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.*
8. Self Supply - Thermoelectric Power (nuclear plants) - *Water used by plants fueled by nuclear generation. Withdrawals and consumptive uses already recorded under another category (e.g., public supply) will not be reported here.*
9. 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.

10. Other - Water used for purposes not reported in Categories 1-9. Examples include, but are not limited to, withdrawals and consumption for fish/wildlife, environmental, recreation, navigation, and water quality purposes. Specifically, water used to maintain levels for navigation, recreation, fish and wildlife habitat creation and enhancement (excluding fish hatchery operations included under Category 5), flow augmentation (or diversion), 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 of peat fires) is also reported here.

Summarized Work Group discussion on withdrawals and consumptive uses for self-supply irrigation and livestock is presented in tabular form as Table 3-1, Appendix A-3. Water use coefficient information for self supply - irrigation and self supply - livestock appear in Appendix A-3 as Tables 3-2 and 3-3.

Principal Facilities: Definition

The question has been raised by the Technical Work Group as to whether principal facilities should be defined by single source withdrawals (i.e., Great Lakes surface water) in excess of the Charter trigger level of 100,000 U.S. gal/day average (380,000 L/day) over a 30-day period, or whether the total withdrawal (all sources combined) should determine a principal facility.

The following represents the revised definition of a principal facility as developed by the Technical Work Group:

Principal Facilities - Facilities withdrawing (or consuming) in excess of the Great Lakes Charter uniform trigger level of 100,000 U.S. gal/day (380,000 L/day) average over a 30-day period. A principal facility is determined by the total withdrawal (or consumption) of all sources combined (Great Lakes surface water, other surface water, and groundwater) rather than a single source. The combined withdrawals (or consumption) of separate wells or operations undertaken by the same facility or company will be evaluated separately for the purpose of determining principal facility status unless those operations are covered under the same registration (or permit) or are physically contiguous.

In 1991, the Commission was asked to undertake an analysis of reported consumption based on data submitted by the jurisdictions to the Repository versus the anticipated consumption derived from the use of uniform estimation procedures developed by the Technical Work Group in 1988-89. The consumptive use coefficients for the nine categories of use are represented in Table 3. Numerical comparison of reported consumption vs. anticipated estimated consumption for each jurisdiction and category of use is shown in Table 4. The narrative comparison of reported consumption vs. anticipated estimated consumption appears in the individual jurisdiction reports.

DATA BASE DESCRIPTION AND DEFINITIONS

The Great Lakes Regional Water Use Data Base has been established for use on IBM DOS-compatible microcomputers in conjunction with the dBASE III Plus commercial database software package. The database is housed at the offices of the Great Lakes Commission in Ann Arbor, Michigan. Routine database operations are controlled by a customized program prepared using dBASE III Plus capabilities. This program includes standard data entry, retrieval and report generation options.

The Great Lakes Regional Water Use Data Base serves as a common repository of data and information on water use in the Great Lakes Basin as described in the Great Lakes Charter. The database catalogs the set of annual data on withdrawals and consumptive uses of the Great Lakes water by water use category, sub-basin and jurisdiction, as specified by the Water Resources Management Committee.

The 1991 water use data presented in this report were submitted to the Regional Water Use Data Base Repository by the Great Lakes states and provinces between September 30, 1992 and January 15, 1993. Data submitted to the Regional Water Use Data Base Repository are provided in one of two units: million gallons (U.S.) per day (mgd) or million litres per day (mld). Each jurisdiction is required to select one of these on a consistent basis for all data submissions. The database records corresponding to the jurisdictions are maintained in the selected units.

All values in the database are initially set to zero. Numeric values are required for all active categories of use. A zero value implies either zero water use or water use not meeting the Charter trigger level of 100,000 gallons (380,000 litres) per day average over a 30 day period. All non-zero values in the summary tables are positive *except* for incoming diversion values, which are negative.

There are two measures of the quality of data provided for each data entry: level of accuracy and level of aggregation. The level of accuracy indicates whether withdrawals are measured or estimated. The level of aggregation indicates whether the withdrawal data originate from site-specific sources or from higher level aggregate sources such as county or census databases.

Each water use category includes three withdrawal/discharge types. These types are as follows:

Great Lakes Surface Water (GLSW) - defined as the Great Lakes, their connecting channels (the St. Clair River, the Detroit River, the Niagara River and the St. Mary's River), and the St. Lawrence River.

Other Surface Water (OSW) - defined as tributary streams, lakes, ponds, and reservoirs within the Great Lakes Basin.

Groundwater (GW) - defined as all subsurface water distinct from surface water.

The following is a list of other important definitions pertaining to the use of the Great Lakes Regional Water Use Database summary tables:

Withdrawal Amount - The amount of water removed or taken from surface or groundwater.

Intrabasin Diversion - The amount of water transferred from the watershed of one of the Great Lakes into that of another.

Interbasin Diversion - The amount of water transferred from the Great Lakes Basin into another watershed.

Consumptive Use - That portion of water withdrawn or withheld from the Great Lakes and assumed to be lost or otherwise not returned to the Great Lakes Basin due to evaporation, incorporation into products or other processes.

SECTION TWO

GREAT LAKES BASIN SUMMARY

OVERVIEW

The following tables and figures present 1991 Great Lakes water use data submitted to the Regional Water Use Data Base Repository from the ten Great Lakes jurisdictions for the nine active categories of use. In total, water withdrawals in the Great Lakes Basin for 1991 were approximately 945.4 billion gallons per day (bgd) or approximately 3.58 trillion litres per day (tld). Of this, 69 percent (651 bgd; 2.47 tld) is used directly from/in the Great Lakes, their connecting channels, or the St. Lawrence River.

Daily water withdrawal of 945.4 billion gallons is the equivalent of approximately 23,635 gallons of water per Great Lakes Basin resident per day (assuming a population of 40 million). Put another way, 945.4 billion gallons of water per day is more than six times the average *annual* outflow of Lake Ontario (238,00 cfs; 154 bgd). For purposes of this report, it is important to note the term "withdrawal" is used broadly and encompasses hydroelectric water use, more typically defined as "instream use." Instream use as defined by the USGS is water that is used but not withdrawn from a ground or surface source for such purposes as hydroelectric power generation, navigation, water quality improvement, fish propagation, and recreation. In the Great Lakes Basin (and for the U.S. and Canada as a whole) fresh surface water provides virtually all of the water for hydroelectric power, and virtually all of the water is returned to Great Lakes Basin rivers and streams. (USGS, Estimated Use of Water in the U.S. in 1985, circular 1004).

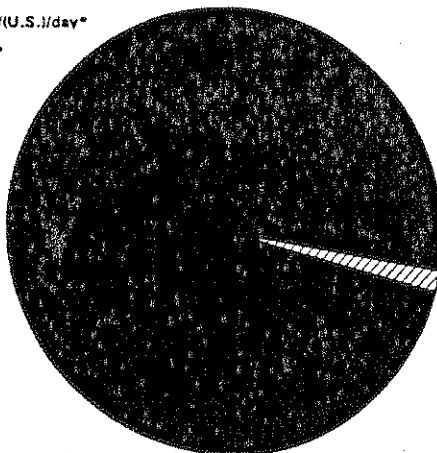
Self supply - hydroelectric, as noted in all the previous Annual Reports of the Repository, continues to be the largest single category of use and represents 94 percent (888.6 bgd; 3.36 tld) of the total amount of water used per day (Figure 1). (For this report, it is important to note the definitions of water withdrawal and water use. *Withdrawal* is water removed from the ground or diverted from a surface water source for use. *Water Use* is the combination of self supplied withdrawals plus public supply deliveries. It refers to water that is actually used for a specific purpose such as for domestic use, irrigation or industrial processing.) (U.S.G.S., National Water Information Program, 1992).

Figure 1

1991 GREAT LAKES BASIN WATER USE Hydroelectric vs. All Other Categories

Self-supply Hydroelectric

888.6 BGal/(U.S.)/day*
3.36 TL/day*



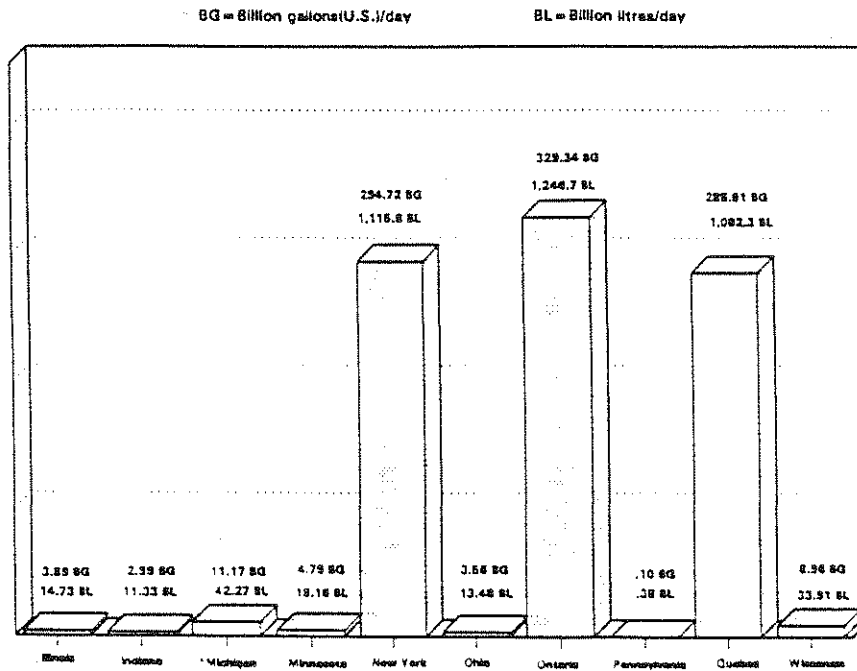
Other Categories of Use
56.79 BGal/(U.S.)/day*
215 BL/day*

Self-Supply Hydroelectric represents
94% of use in the Basin

*1991 State of Michigan data incomplete

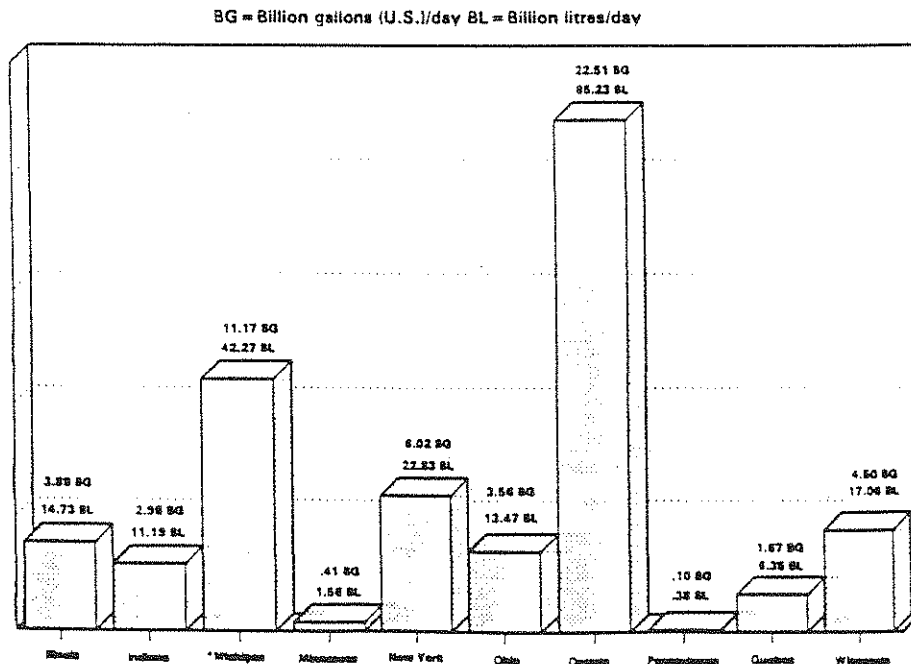
Figure 2 presents the ten jurisdictions' total 1991 withdrawals. However, subtracting hydroelectric uses from the total gives a clearer picture of the true water use in the Great Lakes (Figure 3). Water withdrawals from the remaining eight categories of use for 1991 were approximately 56.79 bgd or 215.0 billion litres per day (bl) (Figure 4). This would be equivalent to about 1,420 gallons per day for every person living in the Basin. Of the 56.79 bgd (215.0 bl) actually withdrawn from the Great Lakes, approximately 96 percent of the reported amount (about 54.54 bgd; 206.5 bl) is returned.

Figure 2
TOTAL 1991 GREAT LAKES BASIN WATER USE BY JURISDICTION



* 1991 State of Michigan data incomplete

Figure 3
1991 GREAT LAKES BASIN WATER USE (EXCLUDING HYDRO) BY JURISDICTION

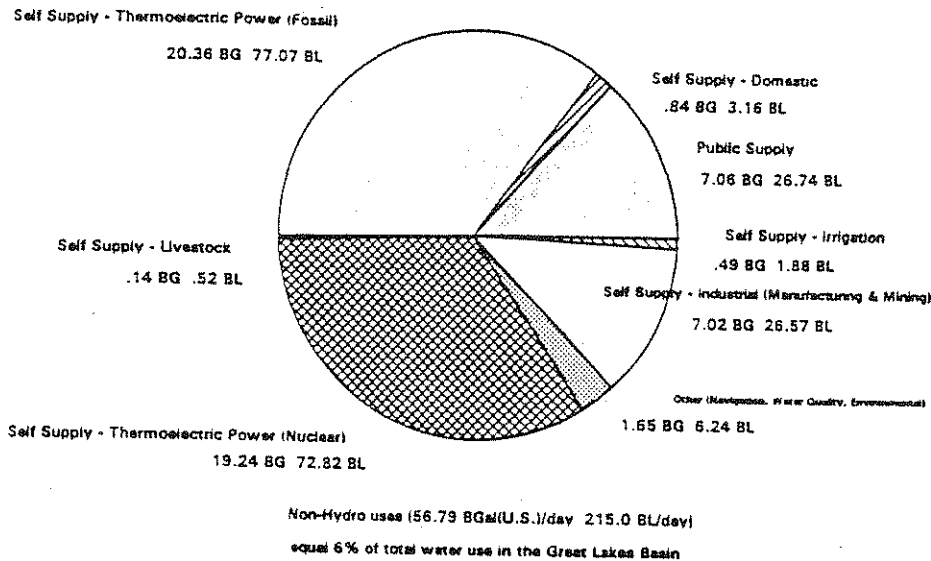


* 1991 State of Michigan data incomplete

Figure 4

1991 GREAT LAKES BASIN WATER USE All Categories of Use Except Hydro*

BG = Billion gallons (U.S.)/day BL = Billion litres/day



*1991 State of Michigan data incomplete

Reported consumptive uses of Great Lakes water for 1991 were approximately 2.51 bgd (9.50 bld). Table 3 compares the reported consumption with the anticipated estimated consumption (both low and high range) for each of eight categories derived from coefficients in Table 4. Based on this comparison, the reported 1991 consumption falls right in the middle of the estimated range of 2.28 bgd - 2.74 bgd. Table 5 presents this comparison for each individual jurisdiction. Combined, Michigan, Minnesota and Ontario account for about 68 percent (1.71 bgd; 6.47 bld) of the total amount of water consumed per day in the Great Lakes Basin.

Table 3

Reported 1991 Water Consumption versus
Anticipated Estimated Consumption
for the Great Lakes Basin (in mgd)

Water Use Category	Reported	Estimated Low Range	Estimated High Range
Public Supply	728.48	706.51	1059.72
Self Supply-Domestic	94.90	83.54	125.36
Self Supply-Irrigation	420.09	423.30	423.30
Self Supply-Livestock	88.88	109.97	109.97
Self Supply-Industrial	511.21	636.14	674.34
Self Supply-Thermoelectric-Fossil Fuel	483.39	153.80	164.34
Self Supply-Thermoelectric-Nuclear	<u>182.69</u>	<u>170.79</u>	<u>178.09</u>
TOTAL	2509.71	2284.05	2735.12

(Source: Great Lakes Commission, 1993)

TABLE 4

Consumptive Use Coefficients

Water Use Category	ILLINOIS	INDIANA	MICHIGAN	MINNESOTA	NEW YORK	OHIO	ONTARIO	PENNSYLVANIA	QUEBEC	WISCONSIN	USGS (NY District)
Public Supply	Range for all states and provinces is 10 - 15%										
Self Supply - Domestic	Range for all states and provinces is 10 - 15%										
Self Supply - Irrigation	90%	90%	90%	90%	90%	90%	78%	90%	90%	70%	100%
	Coefficient for states and provinces without studies supporting other figures is 90%										
Self Supply - Livestock	Coefficient for all states and provinces is 80%										
Self Supply - Industrial	For both mfg. & mining varies by plant & SIC code	6%	10%	For both mfg. & mining varies by plant & SIC code	10% for mfg. & mining except for salt mines, est. at 90%	10%	6.3% calculated from the reported water losses by individual plant	For both mfg. & mining varies by plant & SIC code	10% for pulp & paper industry	10-20% for both mfg. & mining	10%
Self Supply - Thermoelectric (Fossil Fuel)	Varies with individual plants; est. using makeup water for each system	2%	1% for plants using once-through cooling; plant by plant analysis for wet cooling towers	Measured; varies by individual plant		Negligible; estimates based on individual power plant reports of withdrawals & return flows	.9% based on reports of increased local lake evaporation due to discharge of heated water to lakes	Varies with individual plants	10%; estimates obtained from USGS report	.5 - 1%	10%
Self Supply - Thermoelectric (Nuclear)	Varies with individual plants; est. using makeup water for each system	2%		Measured; varies by individual plant		14%; estimates based on individual power plant reports of withdrawals & return flows	.9% based on reports of increased local lake evaporation due to discharge of heated water to lakes	Varies with individual plants	10%; estimates obtained from USGS report	.5 - 1%	10%
Self Supply - Hydro	Coefficient for all states and provinces is 0%										
Other	Varies among states and provinces; based on individual evaluations and best information available										

TABLE 5

COMPARISON OF WATER CONSUMPTION IN THE GREAT LAKES BASIN

(Reported values versus anticipated estimated values)
(All values shown in million gallons (U.S.) per day)

JURISDICTION

Water Use Category	Illinois		Indiana		Michigan		Minnesota		New York		Ohio		Ontario		Pennsylvania		Quebec		Wisconsin	
	Rep.	Est.	Rep.	Est.	Rep.	Est.	Rep.	Est.	Rep.	Est.	Rep.	Est.	Rep.	Est.	Rep.	Est.	Rep.	Est.	Rep.	Est.
Public Supply	0	115.2 to 172.8	27.71	18.5 to 27.71	123	122.4 to 183.6	8.67	4.13 to 6.19	59.8	59.8 to 89.7	91.69	61.14 to 91.70	196.75	131.16 to 196.74	4.63	4.63 to 6.95	140.28	140.38 to 210.57	75.96	49.17 to 73.76
Self Supply - Domestic	0	2.9 to 4.4	9.07	6.05 to 9.07	NR	NA	.15	.18 to .28	45.8	45.8 to 68.7	9.04	6.03 to 9.04	20.20	13.11 to 19.67	.2	.2 to .3	7.13	7.16 to 10.74	3.31	2.11 to 3.16
Self Supply - Irrigation	0	0	27.36	27.36	225	213.3	.46	.48	1.07	9.63	13.26	13.26	145.19	145.19	2.79	2.66	3.16	3.16	1.8	8.26
Self Supply - Livestock	0	0	6.97	6.97	NR	NA	0	2.6	6.8	8.64	10.21	10.21	42.13	42.13	0	0	18.62	18.62	4.15	20.8
Self Supply - Industrial	.41	Varies by plant & SIC code	103.6	103.6	132	131.8	60.13	Varies by plant & SIC code	35.1	35.1	24.09	79.5	75.21	164.45	10.4	Varies by plant & SIC code	11.07	12.55	59.2	38.2 to 76.4
Self Supply - Thermoelectric (F.F.)	0	Varies by plant	18.92	18.91	80.94	62.3	3.11	Varies by plant	9	NA	.22	Varies by plant	44.47	45.02	0	Varies by plant	0	4.7	326.73	10.54 to 21.08
Self Supply - Thermoelectric (Nuclear)	0	Varies by plant	0	0	28.1	NA	0	Varies by plant	3	NA	24.95	20.35	112.04	112.04	0	0	0	0	14.6	7.3 to 14.6
Self Supply - Hydroelectric Power	0	0	0	0	NR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	Varies by jurisdiction	.02	Varies by jurisdiction	0	Varies by jurisdiction	0	Varies by jurisdiction	0	Varies by jurisdiction	0	Varies by jurisdiction	0	Varies by jurisdiction	0	Varies by jurisdiction	0	Varies by jurisdiction	0	Varies by jurisdiction
TOTAL	.41	118.61 to 177.61	193.63	181.49 to 193.64	589.04	557.9 to 619.1	75.12	70.63 to 72.79	160.57	170.97 to 211.77	173.36	190.71 to 224.28	635.99	653.1 to 725.24	18.02	17.89 to 20.31	180.26	186.57 to 260.34	485.75	135.38 to 218.06

Rep. = Reported Est. = Estimated NR = Not Reporting NA = Not Applicable

Outgoing interbasin diversions were 1.47 bgd (5.56 bld), with virtually all of that total diverted from the Illinois Lake Michigan Basin. Incoming interbasin diversions reported to the database were 2.59 bgd (9.79 bld), almost all into the Ontario Lake Superior Basin (the Ogoki and Long Lac diversions), with a small percentage diverted into Lake Erie. The Ogoki and Long Lac diversions were about 28 percent lower in 1991 than the long-term average, which is about 5,600 cfs (3.6 bld; 13.7 bld). In comparison, the incoming interbasin values for 1991 (2.59 bgd; 9.79 bld) were 13 percent lower than those reported for 1990 (2.96 bgd; 11.2 bld).

**SUMMARY OF HYDROELECTRIC POWER FACILITIES
IN THE GREAT LAKES BASIN**

Self Supply - Hydroelectric continues to be the single largest category of use in the Great Lakes Basin representing 94 percent (888.6 bgd; 3.36 tld) of the total amount of water used per day. In light of this fact, the Technical Work Group of the Water Resources Management Committee suggested that this year's report include a summary study of the number and distribution of hydroelectric generating facilities throughout the Basin.

According to the USGS, fresh surface water provides virtually all of the water used for hydroelectric power generation, nationally. The largest use of fresh water for hydroelectric power generation in 1990 occurred in the Pacific Northwest region (more than 1.2 trillion gallons per day). This is more than double the 500 plus billion gallons per day used in the Great Lakes states in 1990 and about four times the amount used in the U.S. Great Lakes Basin in 1991 (297.58 bgd). Almost one-half of the water used for hydroelectric power generation in the U.S. occurs in Washington and Oregon (Columbia River System) and New York (Niagara and St. Lawrence River Systems) (USGS circular 1081, 1993.)

Table 6

**HYDROELECTRIC POWER GENERATION
IN THE
GREAT LAKES BASIN**

(number of facilities)^{1 2}

	SUPERIOR	MICHIGAN	HURON	ERIE	ONTARIO	ST. LAW.	TOTAL
IL	X	0	X	X	X	X	0
IN	X	2	X	0	X	X	2
MI	8	40	15	0	X	X	63
MN	5	X	X	X	X	X	5
NY	X	X	X	1	44	30	75
OH	X	X	X	0	X	X	0
ONT	15	X	29	0	26	1	71
PA	X	X	X	0	0	X	0
QUE	X	X	X	X	X	28	28
WI	1	25	X	X	X	X	26
TOTAL	29	67	44	1	70	59	270

X = jurisdiction does not fall within basin.

Information provided by Kim Irvine, Ph.D., SUNY at Buffalo, 1993.

¹ This list does not include non-utility generators for the U.S. jurisdiction and is therefore not entirely inclusive. It is important to note, however, that non-utility generators (for both the U.S. and Canada) comprise only a very small percentage (< 1%) of the overall production by hydroelectric facilities.

² The numbers derived for the U.S. jurisdictions were collected from a source that reports facility location by county. There are a few cases in which only a small portion of a county lies within the Great Lakes Basin, yet that county claims a number of hydroelectric facilities. This completion is limited in the respect that every facility (regardless of proximity to the G.L. Basin) within a county that shares a portion of the Great Lakes Basin, is considered as being in the Basin.

JURISDICTION REPORTS

Following are the summaries of individual state and provincial water uses for 1991.

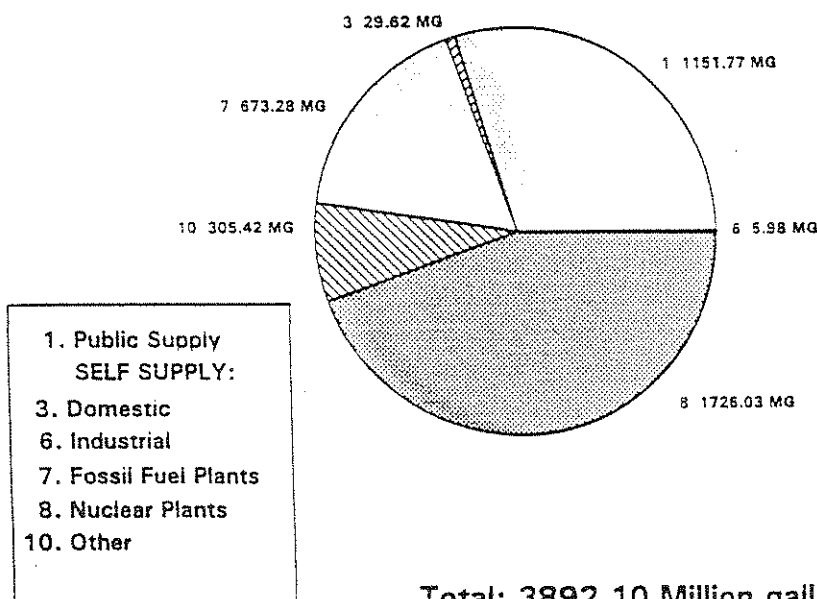
Questions on individual data collection and reporting programs of for specific categories of use should be directed to the appropriate jurisdiction. Appendices A-1 and A-2 present the sub-basin reports and individual water use category reports in summary table form.

ILLINOIS

The water use data collection activities in Illinois are undertaken by two state agencies: the Department of Transportation - Division of Water Resources and the Department of Energy and Natural Resources -State Water Survey. The data submitted to the Regional Water Use Database for calendar year 1991 were provided by the Illinois Department of Transportation - Division of Water Resources.

Total withdrawals from the Lake Michigan Basin of Illinois were 3.89 bgd (Figure 5). Combined, withdrawals for public supply and for thermoelectric power (nuclear plants) represents about 74 percent of this total (2.87 bgd).

Figure 5
1991 GREAT LAKES BASIN WATER USE
ILLINOIS (Million gallons(U.S.)/day)



Consumptive uses for the Lake Michigan Basin of Illinois total .41 mgd, all attributed to self supply - industrial uses. For public supply and self supply - domestic, Illinois reported no consumption although the Technical Work Group agreed upon a coefficient of 10% to 15% for each category. An estimated 10% to 15% consumption would be approximately 115.2 mgd - 172.8 mgd and 2.9 mgd - 4.4 mgd, respectively for these categories. Illinois' total estimated consumption would be 118.51 mgd - 177.61 mgd.

Diversions from the Lake Michigan Basin of Illinois totaled approximately 1.47 bgd. Of this amount, approximately 78% or 1.2 bgd are for public water supply. All diversions for Illinois are outgoing interbasin diversions; that is, water transferred from the Great Lakes Basin into another watershed.

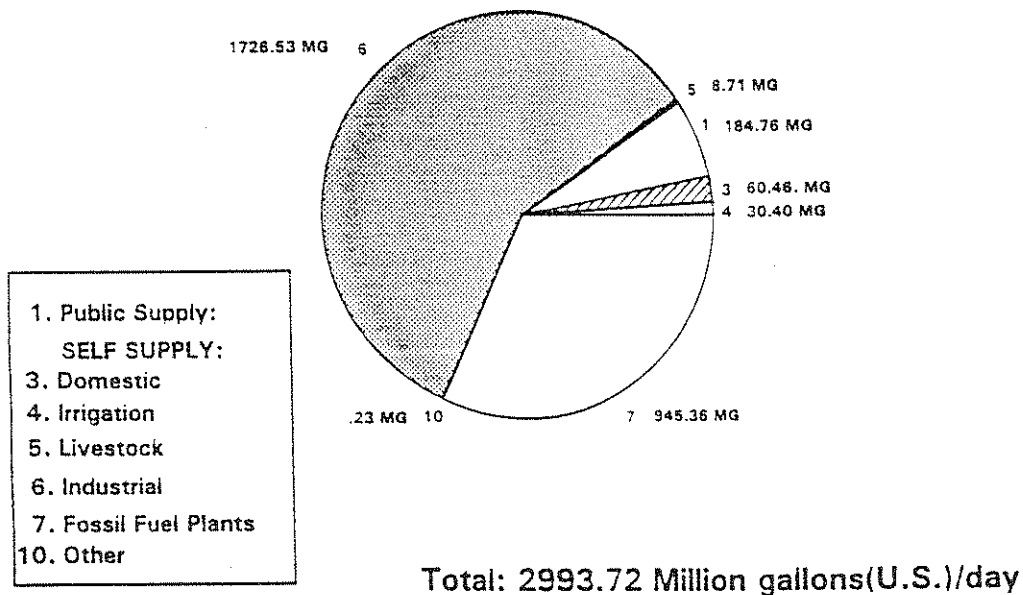
The withdrawal data submitted by the Illinois DOT to the Repository were 100 percent measured and 100 percent site-specific.

INDIANA

Data for 1991 submitted to the Regional Water Use Data Base for the Lake Michigan and Lake Erie Basins of Indiana were provided by the Department of Natural Resources - Division of Water.

Total withdrawals from the two basins were more than 2.99 bgd (Figure 6). More than 97 percent (about 2.93 bgd) of the total volume was from the Lake Michigan Basin, with slightly less than 3 percent (64 mgd) from the Lake Erie Basin. More than 90 percent (about 2.66 bgd) of the total volume of water withdrawals from the Indiana Lake Michigan Basin were for two categories of use: self supply - industrial and self supply - thermoelectric (fossil fuel plants). More than 58 percent of the total Indiana Lake Erie Basin withdrawal volume was for public water supply, about 37.9 mgd.

Figure 6
1991 GREAT LAKES BASIN WATER USE
INDIANA (Million gallons(U.S.)/day)
 EXCLUDING HYDRO *



Consumptive uses for the two basins totaled more than 193 mgd. Of this amount, about 182.7 mgd (almost 94 percent) of the total volume were from the Lake Michigan Basin and approximately 10.9 mgd (about 6 percent) of the total volume were from the Lake Erie Basin. Self supply - industrial is the major category for consumptive use in the Indiana Lake Michigan Basin, representing 102.7 mgd, almost 56 percent of the total. For Lake Erie, public water supply uses consumed 5.7 mgd, representing nearly 52 percent of the total. Indiana's reported consumption of 193.65 mgd falls just above the estimated range of 118.41 mgd to 193.64 mgd.

In the four previous Annual Reports, Indiana did not report any diversions meeting the Charter trigger level of 100,000 gallons per day. However, Indiana does have a net diversion into the Great Lakes Basin. The City of Valparaiso, Indiana, lies within the Lake Michigan Basin and draws all of its water for public supply from the Kankakee River Basin, which is east of the city and outside of the Great Lakes Basin. This water eventually reaches Valparaiso's waste water treatment plant on Salt Creek which lies within the Great Lakes Basin and flows into Lake Michigan -- resulting in an inter-basin transfer of water. In total, this represents a 3.04 mgd diversion of water into the Lake Michigan Basin.

The accuracy of Indiana's data were 6.2 percent measured, 4.6 percent partially measured, and 89.2 percent estimated. The level of aggregation was 97.7 percent site-specific and 2.3 percent aggregated.

MICHIGAN

Water use data collection activities in Michigan are undertaken by the Department of Natural Resources, Public Health, and the USGS. Michigan was unable to submit current water use data to the Regional Water Use Data Base Repository for calendar year 1991.

Public Acts 326 and 327 enacted by the Michigan legislature in 1990, should remedy this problem when fully implemented. These laws will require industries, power plants, and agricultural irrigators with the *capacity* to withdrawal over 100,000 gallons a day average in any 30-day period to report their water use annually. The state is charged with developing a "formula or model" over the next five years to estimate agricultural water use in the future.

The data presented in this report were provided by the Michigan Department of Natural Resources (DNR) and are the same data appearing in the last three Annual Reports of the Great Lakes Regional Water Use Data Base Repository. The base year of this data is 1985. The information provided is from Michigan's water management plan (*Water Resources for the Future: Technical Document*, Great Lakes and Water Resources Planning Commission, September, 1987).

The Michigan data represent only five categories of use: public water supply (category 1); self supply - irrigation (category 4); self supply - industrial (category 6); self supply - thermoelectric (fossil fuel plants) (category 7); and self supply - thermoelectric (nuclear plants) (category 8). Complete 1985 data were provided for these last two categories which, according to the Michigan DNR, represent about 75 percent of the total water withdrawals from the Michigan Great Lakes Basin.

Withdrawal and consumptive use data provided for Categories 1, 4, and 6 cannot presently be reported by individual sub-basin or water withdrawal type. The available data were added to the state totals for the appropriate category to reflect more accurately the aggregate water withdrawals and uses in the state. The Michigan DNR estimates that the five water use categories combined represent about 98 percent of the state's total water withdrawals.

Reported water withdrawals for the Lake Superior, Lake Michigan, Lake Huron, and Lake Erie Basins of Michigan were approximately 11.2 billion gallons per day (bgd). Withdrawals from the Lake Erie Basin account for at least 38 percent (4.2 bgd) of the total volume. Self supply - thermoelectric (fossil fuel plants) withdrawals represent the single largest category accounting for almost 56 percent (6.2 bgd) of the total. Consumptive uses in the Michigan Great Lakes Basin were approximately 589 million gallons per day with self supply - irrigation accounting for more than 38 percent of the total.

From the base year (1985) data, Michigan reported consumption of 589.04 mgd for the five categories of use (where data were available). This falls within the estimated range of 557.9 mgd to 619.1 mgd.

There are no reported inter- or intrabasin diversions in the Michigan Great Lakes Basin that meet the Charter trigger level of 100,000 gallons per day (380,000 litres per day) average over a 30 day period.

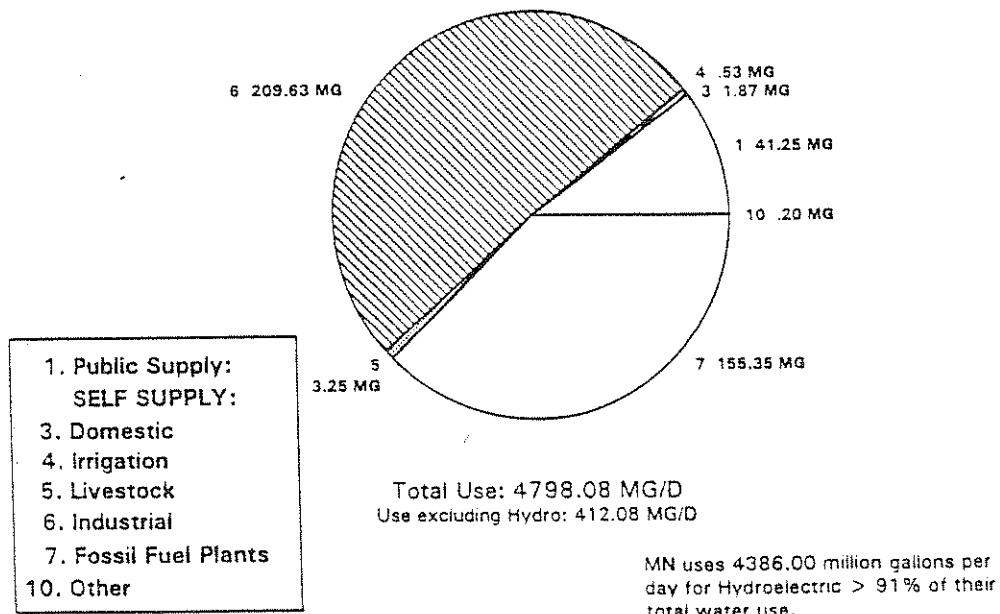
The Michigan data provided to the Repository is 11 percent measured, 87 percent partially measured, 2 percent estimated and 98 percent site-specific.

MINNESOTA

Water use data submitted to the Regional Water Use Database for the Lake Superior Basin of Minnesota were provided by the Department of Natural Resources, Division of Waters.

Withdrawals from the Minnesota Lake Superior Basin for 1991 were approximately 4.79 bgd. One category, self supply - hydroelectric, represents more than 91 percent of the total (4.39 bgd). Hydropower water use was derived by the U.S.G.S. from power generation data supplied by the Minnesota Department of Energy. Figure 7 presents Minnesota's total withdrawals (excluding hydroelectric) for 1991.

Figure 7
1991 GREAT LAKES BASIN WATER USE
MINNESOTA (Million gallons(U.S.)/day)
EXCLUDING HYDRO*



Consumptive uses for the Minnesota Lake Superior Basin totaled about 72.52 mgd. Self supply - industrial and public water supply uses combined represented almost 91 percent of the total (68.8 mgd). Each of the reported consumption values presented in the first four water use categories vary somewhat from their anticipated estimated values. Both public supply and self supply - domestic -- which have a consumptive use coefficient range of 10% to 15% -- reported consumption of 51% and 27% higher, respectively, of the estimated amount. Minnesota's total reported consumption (72.52 mgd) is within the estimated range of 70.63 mgd to 72.79 mgd. Minnesota has no intrabasin or interbasin diversions that meet the Charter trigger level requirement of 100,000 gallons per day (380,000 litres per day) average over a 30 day period.

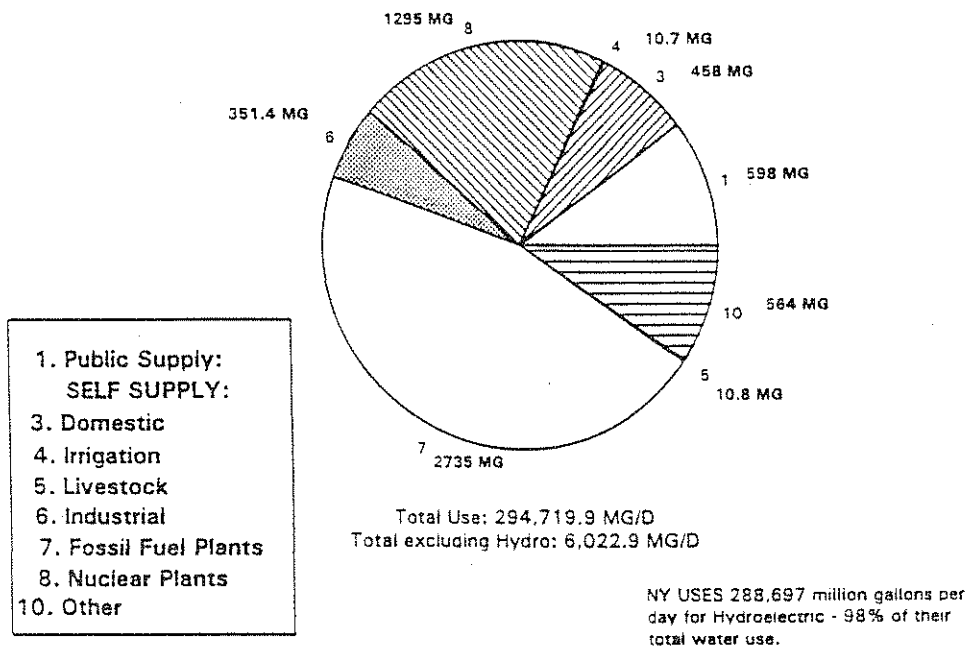
The data reported for the Lake Superior Basin of Minnesota were 1.6 percent measured, 1.9 percent partially measured, and 96.5 percent estimated, with the level of aggregation being 99.9 percent site-specific.

NEW YORK

Water use data collection in New York is undertaken by the Departments of Environmental Conservation and Health, and the U.S. Geological Survey. The 1991 data provided to the Regional Water Use Database for the Lake Erie, Lake Ontario, and St. Lawrence River Basins were provided by the New York State Department of Environmental Conservation - Division of Water.

Withdrawals from the Great Lakes Basin for 1991 were 294 bgd; Lake Erie represented about .5 percent (1.38 bgd) of the total; Lake Ontario represented 51 percent (150 bgd) and the St. Lawrence River represented about 48.4 percent (142 bgd). Figure 8 presents New York's withdrawals (excluding hydroelectric) for 1991. Withdrawals for self supply - hydroelectric purposes were by far the largest use for all three basins representing almost 98 percent of the total volume (288.7 bgd).

Figure 8
1991 GREAT LAKES BASIN WATER USE
NEW YORK (Million gallons(U.S.)/day)
EXCLUDING HYDRO*



New York reported total consumptive uses of 160.57 mgd; 36.46 mgd for the Lake Erie Basin, 92.7 mgd for the Lake Ontario Basin, and 31.41 mgd for the St. Lawrence River Basin. New York reported consumption in all categories except self supply - hydroelectric power and other (Navigation, Water Quality, Environmental). New York's reported consumption of 160.57 mgd fell short of the estimated range of 170.97 mgd to 223.77 mgd.

There are no intrabasin or interbasin diversions in the New York Great Lakes Basin meeting the Charter trigger level of 100,000 gallons (380,000 litres) per day average over a 30-day period.

For New York, the data reported were 1.6 percent measured, 48.4 percent partially measured, and 50 percent estimated, while the level of aggregation was 49.8 percent site-specific and 50.2 percent aggregated.

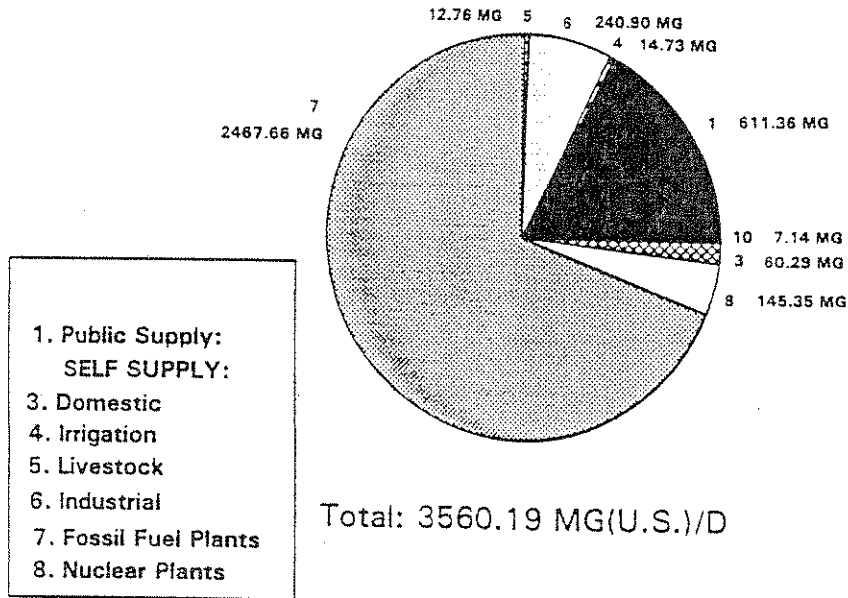
OHIO

Collection of water use data in Ohio is undertaken by the Ohio Department of Natural Resources - Division of Water; the Ohio Environmental Protection Agency and the U.S. Geological Survey. Data for the Ohio Lake Erie Basin for 1991 were provided to the Regional Water Use Database by the Department of Natural Resources - Division of Water.

Total water withdrawals from the Ohio Lake Erie Basin for 1991 were approximately 3.56 billion gallons per day (bgd) (Figure 9). Two categories combined, public water supply and self supply - thermoelectric (fossil fuel plants) represented almost 86 percent of total volume of water withdrawals (3.08 bgd).

Figure 9

**1991 GREAT LAKES BASIN WATER USE
OHIO (Million gallons(U.S.)/day)**



Consumptive uses for the Ohio Lake Erie Basin were 173.46 mgd; with public water supply responsible for over one-half (91.7 mgd) of the total consumption. Ohio's reported and estimated consumption figures for each category were nearly equal for all uses with the exception of self supply - industrial and self supply - thermoelectric (nuclear). The total reported consumption of 173.46 mgd for Ohio fell well short of the estimated 190.71 - 224.28 mgd.

The water use data reported for 1991 were 97.3 percent partially measured and 2.7 percent estimated, while the level of aggregation was 100 percent site-specific.

ONTARIO

For Ontario, water use data collection activities are undertaken by the Ontario Ministry of the Environment and Environment Canada. The 1991 water use data for the Ontario Great Lakes Basin, which includes Lakes Superior, Huron, Erie, Ontario, and the St. Lawrence River, were provided by the Ontario Ministry of Natural Resources - Lands and Waters Policy Branch.

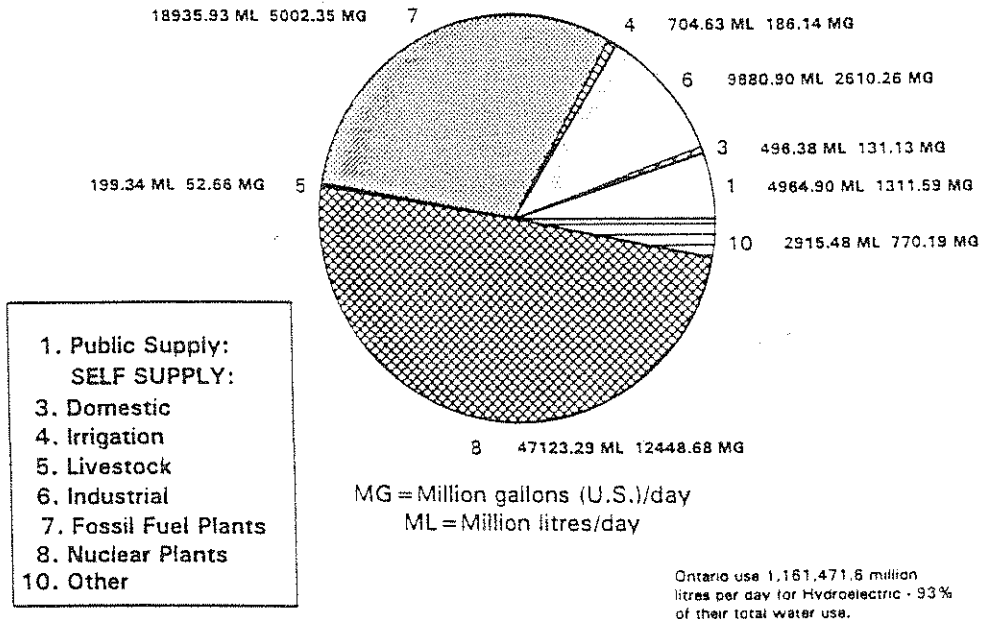
Total 1991 Great Lakes water withdrawals for Ontario were approximately 1.25 trillion litres per day (tld) or 329.3 billion gallons per day (bgd). Of this, self supply - hydroelectric uses represented more than 93 percent (1.16 tld; 306 bgd) of the total volume. Figure 10 presents Ontario's total water withdrawals (excluding hydroelectric) for 1991.

Figure 10

**1991 GREAT LAKES BASIN WATER USE
ONTARIO
EXCLUDING HYDRO***

Total Use: 1246692.4 ML 329341.98 MG

Use excluding Hydro: 85220.8 ML 22513.01 MG



Water withdrawals for the individual lake basins in Ontario are shown in Table 7.

Table 7

<u>Basin</u>	<u>Withdrawal Amount (bld)</u>	<u>Percent of Total</u>
Superior	144.4	11.6
Huron	199.6	16.0
Erie	27.9	2.2
Ontario	243.8	19.6
St.Lawrence	<u>629.5</u>	<u>50.6</u>
TOTAL	1245.2	100.0

Ontario reported incoming interbasin diversions for Lake Superior and intrabasin diversions (incoming and outgoing) for Lakes Huron, Erie and Ontario, as presented in Table 8. Incoming diversion values are negative.

Table 8

<u>Basin</u>	<u>Interbasin Diversion (bld)</u>	<u>Intrabasin Diversion (bld)</u>
Superior	- 9.74	
Huron		.17
Erie		14.19
Ontario		<u>- 14.36</u>
TOTAL	- 9.74	0.00

The incoming diversion of - 9.74 bld, (representing the Ogoki and Long Lac diversions) to the Ontario Lake Superior watershed is used for hydroelectric purposes. This is almost 29 percent lower than the recent averages of the two diversions of about 5,600 cubic feet per second (cfs) or 13.7 bld (3.6 bgd).

Consumptive uses for the Ontario Great Lakes Basin were approximately 2.4 bld with public water supply and self supply - irrigation together representing over 53 percent of the total volume (1.29 bld).

Approximate consumptive uses for the individual lake basins in Ontario appear in Table 9.

Table 9

<u>Basin</u>	<u>Consumptive Uses (bld)</u>	<u>Approximate Percent of Total</u>
Superior	.05	2.1
Huron	.53	22.1
Erie	.75	31.2
Ontario	.89	37.1
St.Lawrence	<u>.18</u>	<u>7.5</u>
TOTAL	2.40	100.0

Ontario reported consumption in seven out of nine water use categories. Out of these seven, only one (self supply - industrial) was inconsistent with the estimated amounts arrived at through the use of coefficients. The anticipated estimated consumption for self supply - industrial should have been approximately 622.5 mld (164.45 mgd). The reported amount of 284.7 mld (75.21 mgd) is less than one half of the estimated amount. Ontario's reported consumption of 2.407 bld (635.99 mgd) is therefore lower than the estimated range of 2.475 to 2.748 bld (653.1 to 725.24 mgd).

Ontario's withdrawal data for 1991 were 6.9 percent measured, 93 percent partially measured, and .1 percent estimated, while the level of aggregation was 99.9 percent site-specific.

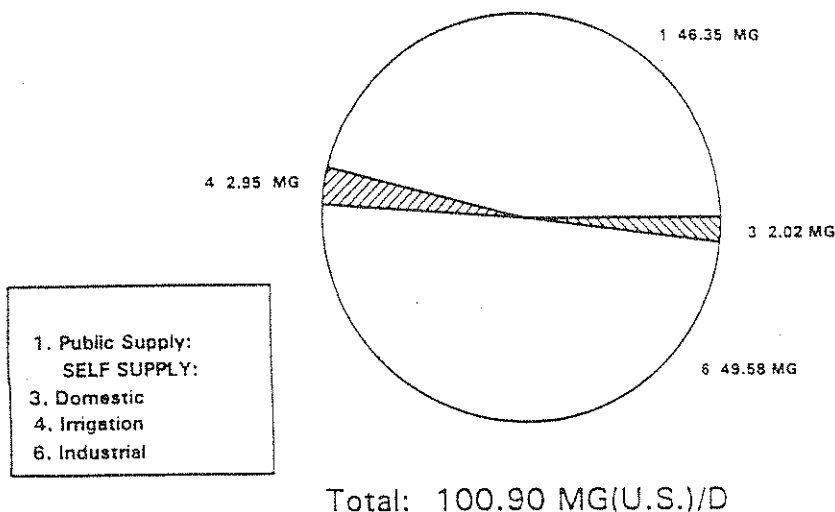
PENNSYLVANIA

Data for 1991 for the Lake Erie and Lake Ontario Basins of Pennsylvania were submitted to the Regional Water Use Data Base by the Department of Environmental Resources - Bureau of Water Supply and Community Health.

Total withdrawals from the two basins were 100.9 million gallons per day (mgd)(Figure 11). Almost 100 percent (100.73 mgd) of the withdrawal volume was from the Lake Erie Basin. Only about .17 mgd, or approximately .1 percent, was from the Lake Ontario Basin. For the Lake Erie Basin, withdrawals for self supply - industrial were 49.58 mgd, more than 49 percent of the total volume.

Figure 11

**1991 GREAT LAKES BASIN WATER USE
PENNSYLVANIA (Million gallons(U.S.)/day)**



Consumptive uses for the two basins were 18.02 mgd; with consumption from Lake Ontario representing only about .1 percent, or 20,000 gallons per day, of this total. For Lake Erie, public water supply and self supply - industrial uses represented in combination over 83 percent (15.02 mgd) of the 18.02 mgd consumed.

Pennsylvania's reported consumption falls within the estimated range of 17.89 to 20.31 mgd. The only variation was for self supply - livestock, where the reported value of 2.79 mgd was about 7 percent higher than the expected estimated value of 2.66 mgd.

There are no interbasin or intrabasin diversions in the Pennsylvania Great Lakes Basin that meet the Charter trigger level of 100,000 gallons (380,000 litres) per day average over a 30 day period.

Pennsylvania's withdrawal for 1991 was 45.9 percent measured, 54.1 percent estimated, with a level of aggregation of 98 percent site-specific.

QUEBEC

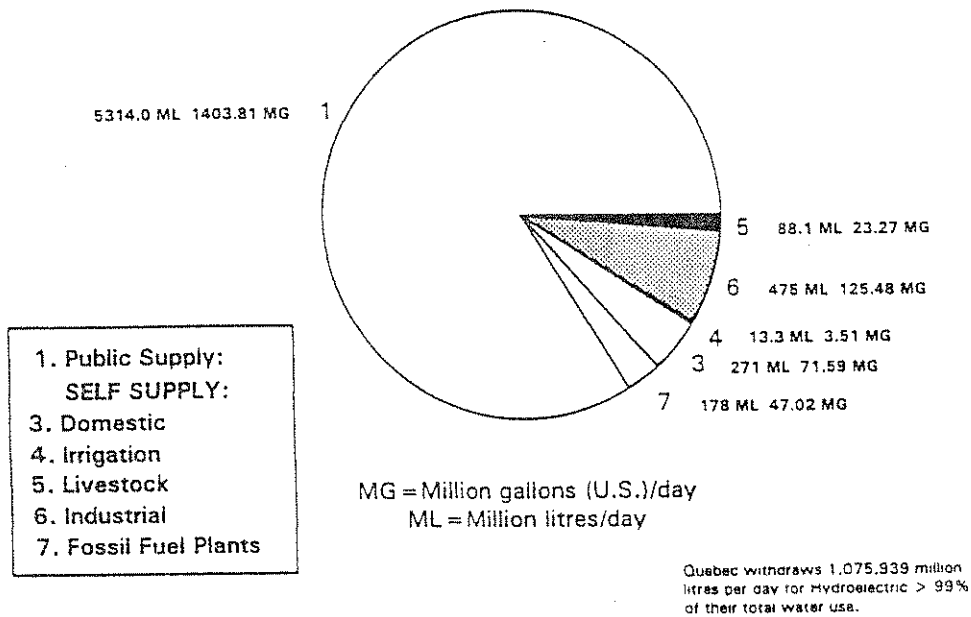
Data for calendar year 1991 were provided by the Ministère de l'Environnement - Direction du milieu hydrique.

Withdrawals in the St. Lawrence River Basin of Quebec were approximately 1.08 tld or 285 bgd. Nearly 100 percent of the total (1.07 tld) was withdrawn for self supply - hydroelectric power purposes. Figure 12 presents Quebec's 1991 water withdrawals (excluding hydroelectric).

Figure 12

**1991 GREAT LAKES BASIN WATER USE
QUEBEC
EXCLUDING HYDRO***

Total Use: 1082278.4 ML 285908.30 MG
Total Excluding Hydro: 6339.4 ML 1674.70 MG



Consumptive uses for the Quebec - St. Lawrence River Basin were 682.4 mld (180.3 mgd); with public water supply representing more than 77 percent of the total volume (531 mld). Quebec's reported consumption was fairly consistent with the estimated values for the first four categories: public supply, self supply - domestic, self supply - irrigation, and self supply - livestock. For self supply - thermoelectric (fossil fuel), Quebec reported no consumption, but the anticipated estimated amount would be 17.8 mld (4.7 mgd). For self supply - industrial, Quebec reported consumption of 41.9 mld (11.07 mgd), compared with an anticipated estimated amount of 47.5 mld (12.55 mgd). As a result, Quebec's total reported consumption of 683.19 mld (180.26 mgd) was slightly lower than the expected estimated range of 707.1 to 986.69 mld (186.57 to 260.34 mgd).

There are no interbasin or intrabasin diversions of water in the Quebec - St. Lawrence River Basin that meet the Charter trigger level of 380,000 litres (100,000 gpd) per day average over a 30 day period.

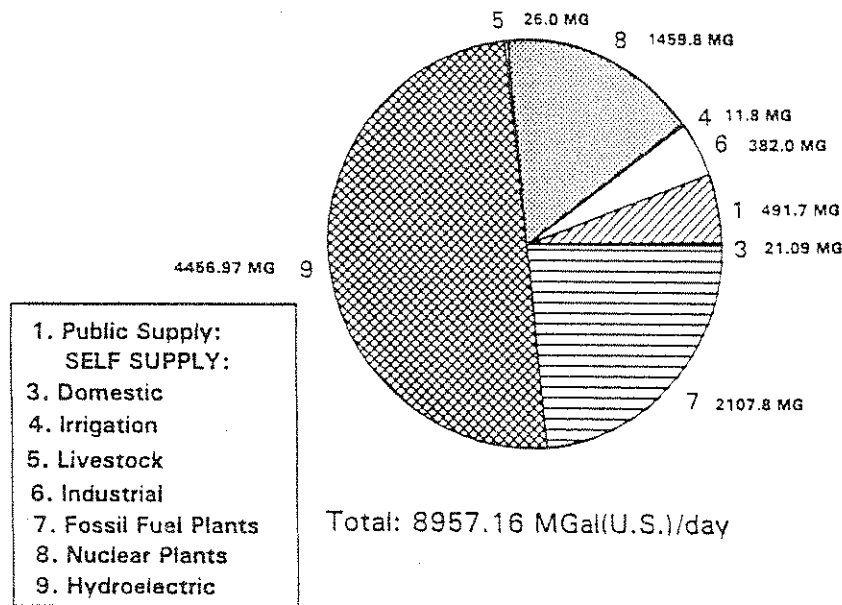
By volume, the Quebec results were 99.9 percent measured, .1 percent estimated with a level of aggregation of 100 percent site-specific.

WISCONSIN

Data for 1991 for the Lake Michigan and Lake Superior Basins of Wisconsin were submitted to the regional Water Use Data Base by the Department of Natural Resources - Bureau of Water Resources Management.

Total withdrawals from the two basins for 1991 were approximately 8.96 billion gallons per day (bgd) (Figure 13). More than 97.7 percent of the total volume (8.75 bgd) was from the Lake Michigan Basin, with just under 2.3 percent (207 mgd) from the Lake Superior Basin. About 49 percent (4.31 bgd) of the water used in the Lake Michigan Basin was for self supply - hydroelectric power, with more than 71 percent (147.23 mgd) of the water used from Lake Superior for the same purpose.

Figure 13
1991 GREAT LAKES BASIN WATER USE
WISCONSIN (Million gallons(U.S.)/day)



Consumptive uses for the two basins totaled 485.75 mgd. This included 476.5 mgd (98 percent) from the Lake Michigan Basin and about 9.3 mgd (2 percent) from the Lake Superior Basin. Self-supply thermoelectric - fossil fuel plants is the major category for consumptive use in the Lake Michigan Basin, representing two-thirds (318.3 mgd) of the total use. Wisconsin reported consumption data for both self supply - irrigation and self supply - livestock that were less than the amounts expected by estimation. For self supply - irrigation, the reported value of 1.8 mgd is 6.46 mgd less than the expected amount. A greater difference appears for self supply - livestock; the reported consumption is 4.15 mgd compared to the anticipated consumption of 20.8 mgd. However, the largest difference occurs under self-supply thermoelectric-fossil fuel plants, where the reported 326.73 mgd is 15 to 30 times greater than the estimated range of 10.54 mgd to 21.1 mgd. Wisconsin's total reported consumption of 485.75 mgd is two to three and one-half times greater than the estimated range of 136.38 to 218.06 mgd.

For the Wisconsin Lake Michigan Basin, outgoing interbasin diversions total 1.0 mgd, reported under public water supply. The data reported by Wisconsin were 100 percent calculated or estimated, and 100 percent from aggregated sources.

Appendix A-1
(million gallons (U.S.) per day)

● **1991 GREAT LAKES BASIN SUMMARY REPORT**

● **1991 JURISDICTION REPORTS**

1. Illinois
2. Indiana
3. Michigan
4. Minnesota
5. New York
6. Ohio
7. Ontario
8. Quebec
9. Pennsylvania
10. Wisconsin

● **1991 BASIN SUMMARY REPORTS**

1. Lake Superior
2. Lake Michigan
3. Lake Huron
4. Lake Erie
5. Lake Ontario
6. St. Lawrence River

● **1991 WATER USE CATEGORY REPORTS**

1. Public Supply
3. Self Supply - Domestic
4. Self Supply - Irrigation
5. Self Supply - Livestock
6. Self Supply - Industrial
7. Self Supply - Thermoelectric Power - Fossil Fuel
8. Self Supply - Thermoelectric Power - Nuclear
9. Self Supply - Hydroelectric Power
10. Other

a) Water-Use by Category - All Basins, All Jurisdictions

Water-Use Category	All Facilities								Principal Facilities									
	Withdrawals				Diversions				Consumptive Use	Withdrawals				Diversions				Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	GLSW		OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL			
1	4357.68	956.03	526.89	7064.59*	0.00	1149.95	1149.95	728.48*	3999.55	760.28	456.21	5216.04	0.00	1149.95	1149.95	542.06		
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3	192.81	157.34	485.92	836.07	0.00	5.38	5.38	94.90	30.81	31.29	53.92	116.02	0.00	5.38	5.38	10.32		
4	9.20	161.00	90.57	497.77*	0.00	0.00	0.00	420.09*	0.00	19.22	28.60	47.82	0.00	0.00	0.00	41.64		
5	4.65	8.79	124.01	137.45	0.00	0.00	0.00	88.88	0.65	1.99	1.44	4.05	0.00	0.00	0.00	2.72		
6	4529.54	1018.15	154.08	7019.77*	0.00	4.83	4.83	511.21*	4226.07	979.17	86.11	5291.34	0.00	4.83	4.83	337.36		
7	20009.94	345.24	4.65	20359.83	0.00	0.00	0.00	483.39	13910.78	220.59	1.56	14132.93	0.00	0.00	0.00	393.32		
8	19236.15	0.00	0.00	19236.15	0.00	0.00	0.00	182.69	17074.86	0.00	0.00	17074.86	0.00	0.00	0.00	151.59		
9	601585.36	287054.46	0.00	888639.81	0.00	-2571.87	-2571.87	0.00	447795.36	287054.46	0.00	734849.81	0.00	-2571.87	-2571.87	0.00		
10	1442.67	201.18	3.33	1647.18	564.00	294.61	858.61	0.02	1442.67	201.14	2.89	1646.70	168.00	294.61	462.61	0.01		
Total	651368.00	289902.17	1389.45	945438.62*	564.00	-1117.10	-553.10	2509.71*	488480.75	289268.13	630.69	778379.57	168.00	-1117.10	-949.10	1479.00		

b) Water-Use by Basin - All Categories, All Jurisdictions

Basin	All Facilities								Principal Facilities									
	Withdrawals				Diversions				Consumptive Use	Withdrawals				Diversions				Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	GLSW		OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL			
Lake Superior	1032.33	42375.83	11.65	43419.81	0.00	-2571.87	-2571.87	99.38	771.14	42372.78	8.51	43152.43	0.00	-2571.87	-2571.87	95.01		
Lake Michigan	12024.41	6382.54	417.05	18824.00	0.00	1465.36	1465.36	701.88	14667.66	455.21	327.30	15450.17	0.00	1465.36	1465.36	642.87		
Lake Huron	32062.81	21284.54	113.31	53460.65	44.47	0.00	44.47	149.02	31409.99	21258.06	53.27	52721.32	44.47	0.00	44.47	99.53		
Lake Erie	15887.52	608.05	399.07	16894.64	3750.79	-10.59	3740.20	491.78	11439.49	450.53	165.94	12055.96	3750.79	-10.59	3740.20	255.89		
Lake Ontario	203918.59	10882.26	244.11	215044.96	-3399.26	0.00	-3399.26	327.94	107132.75	10622.10	18.33	117773.17	-3795.26	0.00	-3795.26	199.00		
St.Lawrence River	384982.54	209828.76	204.26	595015.56	168.00	0.00	168.00	259.65	327369.46	209799.71	57.35	537226.52	168.00	0.00	168.00	186.69		
Total	649908.20	291361.97	1389.45	945438.62*	564.00	-1117.10	-553.10	2509.71*	492790.49	284958.39	630.69	778379.57	168.00	-1117.10	-949.10	1479.00		

c) Water-Use by Jurisdiction - All Categories, All Basins

Jurisdiction	All Facilities								Principal Facilities									
	Withdrawals				Diversions				Consumptive Use	Withdrawals				Diversions				Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	GLSW		OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL			
Illinois	3891.97	0.02	0.11	3892.10	0.00	1467.40	1467.40	0.41	3891.97	0.00	0.00	3891.97	0.00	1467.40	1467.40	0.41		
Indiana	2714.05	132.85	146.82	2993.72	0.00	-3.04	-3.04	193.65	2714.05	132.46	112.81	2959.32	0.00	-3.04	-3.04	184.21		
Michigan	8260.45	124.56	2.28	11166.29*	0.00	0.00	0.00	589.04*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Minnesota	196.88	4595.83	5.37	4798.08	0.00	0.00	0.00	72.52	196.85	4593.10	4.45	4794.40	0.00	0.00	0.00	72.26		
New York	294126.20	311.00	282.70	294719.90	564.00	0.00	564.00	160.57	139501.00	0.00	0.00	139501.00	168.00	0.00	168.00	0.00		
Ohio	3052.34	363.17	144.68	3560.19	0.00	-10.59	-10.59	173.46	3052.04	355.65	70.33	3478.02	0.00	-10.59	-10.59	149.26		
Ontario	171216.54	157709.36	416.08	329341.98	0.00	-2571.87	-2571.87	635.98	171215.56	157559.15	168.59	328943.30	0.00	-2571.87	-2571.87	424.12		
Pennsylvania	90.44	4.82	5.64	100.90	0.00	0.00	0.00	18.02	90.44	4.44	2.81	97.69	0.00	0.00	0.00	17.47		
Quebec	164007.33	121802.59	98.38	285908.30	0.00	0.00	0.00	180.26	164007.33	121798.36	48.61	285854.30	0.00	0.00	0.00	155.81		
Wisconsin	2352.00	6317.77	287.39	8957.16	0.00	1.00	1.00	485.75	3121.24	515.23	223.10	8859.57	0.00	1.00	1.00	475.46		
Total	649908.20	291361.97	1389.45	945438.62*	564.00	-1117.10	-553.10	2509.71*	492790.49	284958.39	630.69	778379.57	168.00	-1117.10	-949.10	1479.00		

*The total presented is larger than the sum of water use categories. This is due to the addition of state-wide data from Michigan. Michigan's withdrawals and consumptive uses for this category cannot presently be reported by individual sub-basin or water withdrawal type.

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE MICHIGAN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	1151.77	1151.77	0.00	1151.77	1151.77	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	29.49	5.38	0.00	29.49	5.38	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	5.98	4.83	0.41	5.98	4.83	0.41
7	673.28	0.00	0.00	673.28	0.00	0.00
8	1726.03	0.00	0.00	1726.03	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	305.42	305.42	0.00	305.42	305.42	0.00
Total	3891.97	1467.40	0.41	3891.97	1467.40	0.41

b) Withdrawals by Source - Principal facilities

Water- Use Categ.	LAKE MICHIGAN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	1151.77	0.00	0.00	1151.77	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	29.49	0.00	0.00	29.49	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	5.98	0.00	0.00	5.98	0.00	0.00
7	673.28	0.00	0.00	673.28	0.00	0.00
8	1726.03	0.00	0.00	1726.03	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	305.42	0.00	0.00	305.42	0.00	0.00
Total	3891.97	0.00	0.00	3891.97	0.00	0.00

c) Diversions by Type - Principal facilities

Water- Use Categ.	LAKE MICHIGAN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	1151.77	0.00	1151.77
2	0.00	0.00	0.00	0.00
3	0.00	5.38	0.00	5.38
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	4.83	0.00	4.83
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	305.42	0.00	305.42
Total	0.00	1467.40	0.00	1467.40

Level of Accuracy of Withdrawal Data: 100% Measured
Level of Aggregation of Withdrawal Data Source: 100% Site-specific

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE MICHIGAN			LAKE ERIE			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	146.79	-3.04	22.02	37.97	0.00	5.69	184.76	-3.04	27.71
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	51.89	0.00	7.78	8.57	0.00	1.29	60.46	0.00	9.07
4	28.55	0.00	25.70	1.85	0.00	1.66	30.40	0.00	27.36
5	6.90	0.00	5.52	1.81	0.00	1.45	8.71	0.00	6.97
6	1712.23	0.00	102.74	14.30	0.00	0.86	1726.53	0.00	103.60
7	945.09	0.00	18.91	0.27	0.00	0.01	945.36	0.00	18.92
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	37.27	0.00	0.00	0.00	0.00	0.00	37.27	0.00	0.00
10	0.23	0.00	0.02	0.00	0.00	0.00	0.23	0.00	0.02
Total	2928.95	-3.04	182.69	64.77	0.00	10.96	2993.72	-3.04	193.65

b) Withdrawals by Source - All facilities

Water- Use Categ.	LAKE MICHIGAN			LAKE ERIE			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	89.80	0.00	56.99	0.00	32.56	5.41	89.80	32.56	62.40
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	30.75	21.14	0.00	0.05	8.52	0.00	30.80	29.66
4	0.00	9.28	19.27	0.00	0.65	1.20	0.00	9.93	20.47
5	0.00	1.50	5.40	0.00	0.00	1.81	0.00	1.50	7.21
6	1680.45	8.64	23.14	0.00	12.05	2.25	1680.45	20.69	25.39
7	943.80	0.00	1.29	0.00	0.00	0.27	943.80	0.00	1.56
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	37.27	0.00	0.00	0.00	0.00	0.00	37.27	0.00
10	0.00	0.10	0.13	0.00	0.00	0.00	0.00	0.10	0.13
Total	2714.05	87.54	127.36	0.00	45.31	19.46	2714.05	132.85	146.82

c) Diversions by Type - All facilities

Water- Use Categ.	LAKE MICHIGAN		LAKE ERIE		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	-3.04	0.00	0.00	0.00	-3.04
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	-3.04	0.00	0.00	0.00	-3.04

Level of Accuracy of Withdrawal Data: 6.2% Measured 4.6% Partially Measured 89.2% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 97.7% Site-specific 2.3% Aggregated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE MICHIGAN			LAKE ERIE			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	146.14	-3.04	21.92	37.77	0.00	5.66	183.91	-3.04	27.58
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	34.43	0.00	5.16	0.18	0.00	0.03	34.61	0.00	5.19
4	28.03	0.00	25.23	1.56	0.00	1.41	29.59	0.00	26.64
5	2.91	0.00	2.33	0.00	0.00	0.00	2.91	0.00	2.33
6	1711.49	0.00	102.70	14.08	0.00	0.84	1725.57	0.00	103.54
7	945.09	0.00	18.91	0.27	0.00	0.01	945.36	0.00	18.92
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	37.27	0.00	0.00	0.00	0.00	0.00	37.27	0.00	0.00
10	0.10	0.00	0.01	0.00	0.00	0.00	0.10	0.00	0.01
Total	2905.46	-3.04	176.26	53.86	0.00	7.95	2959.32	-3.04	184.21

b) Withdrawals by Source - Principal facilities

Water-Use Categ.	LAKE MICHIGAN			LAKE ERIE			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	89.80	0.00	56.34	0.00	32.56	5.21	89.80	32.56	61.55
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	30.74	3.69	0.00	0.05	0.13	0.00	30.79	3.82
4	0.00	9.02	19.01	0.00	0.60	0.96	0.00	9.62	19.97
5	0.00	1.50	1.41	0.00	0.00	0.00	0.00	1.50	1.41
6	1680.45	8.62	22.42	0.00	12.04	2.04	1680.45	20.66	24.46
7	943.80	0.00	1.29	0.00	0.00	0.27	943.80	0.00	1.56
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	37.27	0.00	0.00	0.00	0.00	0.00	37.27	0.00
10	0.00	0.06	0.04	0.00	0.00	0.00	0.00	0.06	0.04
Total	2714.05	87.21	104.20	0.00	45.25	8.61	2714.05	132.46	112.81

c) Diversions by Type - Principal facilities

Water-Use Categ.	LAKE MICHIGAN		LAKE ERIE		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	-3.04	0.00	0.00	0.00	-3.04
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	-3.04	0.00	0.00	0.00	-3.04

Level of Accuracy of Withdrawal Data: 6.2% Measured 4.6% Partially Measured 89.2% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 97.7% Site-specific 2.3% Aggregated

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			LAKE HURON			LAKE ERIE			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1224*	NR	123*
3	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
4	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	237*	0.00	225*
5	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
6	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	1318*	0.00	132*
7	260.77	0.00	3.39	1091.72	0.00	14.20	652.47	0.00	8.48	4221.04	0.00	54.87	6226.00	0.00	80.94
8	0.00	0.00	0.00	2161.29	0.00	28.10	0.00	0.00	0.00	0.00	0.00	0.00	2161.29	0.00	28.10
9	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
10	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
Total	260.77	0.00	3.39	3253.01	0.00	42.30	652.47	0.00	8.48	4221.04	0.00	54.87	11166.29*	0.00	589.04*

b) Withdrawals by Source - All facilities

Water-Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			LAKE HURON			LAKE ERIE			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
6	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
7	260.77	0.00	0.00	965.00	124.44	2.28	652.44	0.03	0.00	4220.95	0.09	0.00	6099.16	124.56	2.28
8	0.00	0.00	0.00	2161.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2161.29	0.00	0.00
9	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Total	260.77	0.00	0.00	3126.29	124.44	2.28	652.44	0.03	0.00	4220.95	0.09	0.00	8260.45	124.56	2.28

c) Diversions by Type - All facilities

Water-Use Categ.	LAKE SUPERIOR		LAKE MICHIGAN		LAKE HURON		LAKE ERIE		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	NR	0.00	NR	0.00	NR	0.00	NR	0.00	NR	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* This total figure cannot presently be reported by individual subbasin or water withdrawal type.
NR = Not Reporting

Level of Accuracy of Withdrawal Data: 11% Measured 87% Partially Measured 2% Calculated or Estimated
Level of Aggregation of Withdrawal Data Source: 98% Site-specific 2% Aggregated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			LAKE HURON			LAKE ERIE			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
3	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
4	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
5	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
6	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
10	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

b) Withdrawals by Source - Principal facilities

Water-Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			LAKE HURON			LAKE ERIE			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
6	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

c) Diversions by Type - Principal facilities

Water-Use Categ.	LAKE SUPERIOR		LAKE MICHIGAN		LAKE HURON		LAKE ERIE		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	NR	0.00	NR	0.00	NR	0.00	NR	0.00	NR	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NR = Not Reported

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE SUPERIOR			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	41.25	0.00	8.67	41.25	0.00	8.67
2	0.00	0.00	0.00	0.00	0.00	0.00
3	1.87	0.00	0.15	1.87	0.00	0.15
4	0.53	0.00	0.46	0.53	0.00	0.46
5	3.25	0.00	0.00	3.25	0.00	0.00
6	209.63	0.00	60.13	209.63	0.00	60.13
7	155.35	0.00	3.11	155.35	0.00	3.11
8	0.00	0.00	0.00	0.00	0.00	0.00
9	4386.00	0.00	0.00	4386.00	0.00	0.00
10	0.20	0.00	0.00	0.20	0.00	0.00
Total	4798.08	0.00	72.52	4798.08	0.00	72.52

b) Withdrawals by Source - All facilities

Water- Use Categ.	LAKE SUPERIOR			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	33.65	2.98	4.62	33.65	2.98	4.62
2	0.00	0.00	0.00	0.00	0.00	0.00
3	1.32	0.52	0.03	1.32	0.52	0.03
4	0.00	0.53	0.00	0.00	0.53	0.00
5	0.65	2.20	0.40	0.65	2.20	0.40
6	122.92	86.60	0.11	122.92	86.60	0.11
7	38.34	117.00	0.01	38.34	117.00	0.01
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	4386.00	0.00	0.00	4386.00	0.00
10	0.00	0.00	0.20	0.00	0.00	0.20
Total	196.88	4595.83	5.37	196.88	4595.83	5.37

c) Diversions by Type - All facilities

Water- Use Categ.	LAKE SUPERIOR		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00

Level of Accuracy of Withdrawal Data: 1.6% Measured
Level of Aggregation of Withdrawal Data Source: 99.9% Site-specific

1.9% Partially Measured
.1% Aggregated

96.5% Calculated or Estimated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE SUPERIOR			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	40.92	0.00	8.59	40.92	0.00	8.59
2	0.00	0.00	0.00	0.00	0.00	0.00
3	1.82	0.00	0.15	1.82	0.00	0.15
4	0.36	0.00	0.32	0.36	0.00	0.32
5	0.65	0.00	0.00	0.65	0.00	0.00
6	209.27	0.00	60.09	209.27	0.00	60.09
7	155.25	0.00	3.11	155.25	0.00	3.11
8	0.00	0.00	0.00	0.00	0.00	0.00
9	4386.00	0.00	0.00	4386.00	0.00	0.00
10	0.13	0.00	0.00	0.13	0.00	0.00
Total	4794.40	0.00	72.26	4794.40	0.00	72.26

b) Withdrawals by Source - Principal facilities

Water- Use Categ.	LAKE SUPERIOR			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	33.62	2.98	4.32	33.62	2.98	4.32
2	0.00	0.00	0.00	0.00	0.00	0.00
3	1.32	0.50	0.00	1.32	0.50	0.00
4	0.00	0.36	0.00	0.00	0.36	0.00
5	0.65	0.00	0.00	0.65	0.00	0.00
6	122.92	86.35	0.00	122.92	86.35	0.00
7	38.34	116.91	0.00	38.34	116.91	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	4386.00	0.00	0.00	4386.00	0.00
10	0.00	0.00	0.13	0.00	0.00	0.13
Total	196.85	4593.10	4.45	196.85	4593.10	4.45

c) Diversions by Type - Principal facilities

Water- Use Categ.	LAKE SUPERIOR		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00

Level of Accuracy of Withdrawal Data: 1.6% Measured 1.9% Partially Measured 96.5% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 99.9% Site-specific .1% Aggregated

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	206.00	0.00	20.60	266.00	0.00	26.60	126.00	0.00	12.60	598.00	0.00	59.80
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	78.00	0.00	7.80	290.00	0.00	29.00	90.00	0.00	9.00	458.00	0.00	45.80
4	1.60	0.00	0.16	8.00	0.00	0.80	1.10	0.00	0.11	10.70	0.00	1.07
5	1.40	0.00	1.10	6.40	0.00	3.30	3.00	0.00	2.40	10.80	0.00	6.80
6	58.40	0.00	5.80	220.00	0.00	22.00	73.00	0.00	7.30	351.40	0.00	35.10
7	483.00	0.00	1.00	2252.00	0.00	8.00	0.00	0.00	0.00	2735.00	0.00	9.00
8	0.00	0.00	0.00	1295.00	0.00	3.00	0.00	0.00	0.00	1295.00	0.00	3.00
9	560.00	0.00	0.00	145828.00	0.00	0.00	142309.00	0.00	0.00	288697.00	0.00	0.00
10	0.00	0.00	0.00	396.00	396.00	0.00	168.00	168.00	0.00	564.00	564.00	0.00
Total	1388.40	0.00	36.46	150561.40	396.00	92.70	142770.10	168.00	31.41	294719.90	564.00	160.57

b) Withdrawals by Source - All facilities

Water-Use Categ.	LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	160.00	46.00	0.00	96.00	139.00	31.00	101.00	0.00	25.00	357.00	185.00	56.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	10.00	10.00	58.00	101.00	96.00	93.00	51.00	20.00	19.00	162.00	126.00	170.00
4	1.20	0.00	0.40	7.00	0.00	1.00	1.00	0.00	0.10	9.20	0.00	1.50
5	0.50	0.00	0.90	2.50	0.00	3.90	1.00	0.00	2.00	4.00	0.00	6.80
6	55.00	0.00	3.40	180.00	0.00	40.00	68.00	0.00	5.00	303.00	0.00	48.40
7	483.00	0.00	0.00	2252.00	0.00	0.00	0.00	0.00	0.00	2735.00	0.00	0.00
8	0.00	0.00	0.00	1295.00	0.00	0.00	0.00	0.00	0.00	1295.00	0.00	0.00
9	560.00	0.00	0.00	145828.00	0.00	0.00	142309.00	0.00	0.00	288697.00	0.00	0.00
10	0.00	0.00	0.00	396.00	0.00	0.00	168.00	0.00	0.00	564.00	0.00	0.00
Total	1269.70	56.00	62.70	150157.50	235.00	168.90	142699.00	20.00	51.10	294126.20	311.00	282.70

c) Diversions by Type - All facilities

Water-Use Categ.	LAKE ERIE		LAKE ONTARIO		ST. LAWRENCE RIVER		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	396.00	0.00	168.00	0.00	564.00	0.00
Total	0.00	0.00	396.00	0.00	168.00	0.00	564.00	0.00

Level of Accuracy of Withdrawal Data: 1.6% Measured 48.4% Partially Measured 50% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 49.8% Site-specific 50.2% Aggregated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	483.00	0.00	0.00	2252.00	0.00	0.00	0.00	0.00	0.00	2735.00	0.00	0.00
8	0.00	0.00	0.00	1295.00	0.00	0.00	0.00	0.00	0.00	1295.00	0.00	0.00
9	560.00	0.00	0.00	49429.00	0.00	0.00	84918.00	0.00	0.00	134907.00	0.00	0.00
10	0.00	0.00	0.00	396.00	0.00	0.00	168.00	168.00	0.00	564.00	168.00	0.00
Total	1043.00	0.00	0.00	53372.00	0.00	0.00	85086.00	168.00	0.00	139501.00	168.00	0.00

b) Withdrawals by Source - Principal facilities

Water-Use Categ.	LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	483.00	0.00	0.00	2252.00	0.00	0.00	0.00	0.00	0.00	2735.00	0.00	0.00
8	0.00	0.00	0.00	1295.00	0.00	0.00	0.00	0.00	0.00	1295.00	0.00	0.00
9	560.00	0.00	0.00	49429.00	0.00	0.00	84918.00	0.00	0.00	134907.00	0.00	0.00
10	0.00	0.00	0.00	396.00	0.00	0.00	168.00	168.00	0.00	564.00	168.00	0.00
Total	1043.00	0.00	0.00	53372.00	0.00	0.00	85086.00	0.00	0.00	139501.00	0.00	0.00

c) Diversions by Type - Principal facilities

Water-Use Categ.	LAKE ERIE		LAKE ONTARIO		ST. LAWRENCE RIVER		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	168.00	0.00	168.00	0.00
Total	0.00	0.00	0.00	0.00	168.00	0.00	168.00	0.00

Level of Accuracy of Withdrawal Data: 1.6% Measured 48.4% Partially Measured 50% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 49.8% Site-specific 50.2% Aggregated

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE ERIE			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	611.36	0.22	91.69	611.36	0.22	91.69
2	0.00	0.00	0.00	0.00	0.00	0.00
3	60.29	0.00	9.04	60.29	0.00	9.04
4	14.73	0.00	13.26	14.73	0.00	13.26
5	12.76	0.00	10.21	12.76	0.00	10.21
6	240.90	0.00	24.09	240.90	0.00	24.09
7	2467.66	0.00	0.22	2467.66	0.00	0.22
8	145.35	0.00	24.95	145.35	0.00	24.95
9	0.00	0.00	0.00	0.00	0.00	0.00
10	7.14	-10.81	0.00	7.14	-10.81	0.00
Total	3560.19	-10.59	173.46	3560.19	-10.59	173.46

b) Withdrawals by Source - All facilities

Water- Use Categ.	LAKE ERIE			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	473.57	102.65	35.14	473.57	102.65	35.14
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	60.29	0.00	0.00	60.29
4	0.00	10.48	4.25	0.00	10.48	4.25
5	0.00	2.09	10.67	0.00	2.09	10.67
6	51.32	158.25	31.33	51.32	158.25	31.33
7	2380.91	86.75	0.00	2380.91	86.75	0.00
8	145.35	0.00	0.00	145.35	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	1.19	2.95	3.00	1.19	2.95	3.00
Total	3052.34	363.17	144.68	3052.34	363.17	144.68

c) Diversions by Type - All facilities

Water- Use Categ.	LAKE ERIE		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.22	0.00	0.22
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	-10.81	0.00	-10.81
Total	0.00	-10.59	0.00	-10.59

Level of Accuracy of Withdrawal Data: 97.3% Partially Measured 2.7% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 100% Site-specific

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE ERIE			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	609.02	0.22	91.35	609.02	0.22	91.35
2	0.00	0.00	0.00	0.00	0.00	0.00
3	1.49	0.00	0.22	1.49	0.00	0.22
4	9.28	0.00	8.35	9.28	0.00	8.35
5	0.49	0.00	0.39	0.49	0.00	0.39
6	237.87	0.00	23.78	237.87	0.00	23.78
7	2467.66	0.00	0.22	2467.66	0.00	0.22
8	145.35	0.00	24.95	145.35	0.00	24.95
9	0.00	0.00	0.00	0.00	0.00	0.00
10	6.86	-10.81	0.00	6.86	-10.81	0.00
Total	3478.02	-10.59	149.26	3478.02	-10.59	149.26

b) Withdrawals by Source - Principal facilities

Water- Use Categ.	LAKE ERIE			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	473.27	102.11	33.64	473.27	102.11	33.64
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	1.49	0.00	0.00	1.49
4	0.00	7.34	1.94	0.00	7.34	1.94
5	0.00	0.49	0.00	0.00	0.49	0.00
6	51.32	156.01	30.54	51.32	156.01	30.54
7	2380.91	86.75	0.00	2380.91	86.75	0.00
8	145.35	0.00	0.00	145.35	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	1.19	2.95	2.72	1.19	2.95	2.72
Total	3052.04	355.65	70.33	3052.04	355.65	70.33

c) Diversions by Type - Principal facilities

Water- Use Categ.	LAKE ERIE		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.22	0.00	0.22
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	-10.81	0.00	-10.81
Total	0.00	-10.59	0.00	-10.59

Level of Accuracy of Withdrawal Data: 97.3% Partially Measured 2.7% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 100% Site-specific

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE SUPERIOR			LAKE HURON			LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	21.12	0.00	3.17	150.24	44.47	22.54	203.42	-44.47	30.51	784.92	0.00	117.74	151.89	0.00	22.78	1311.59	0.00	196.75
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	1.67	0.00	0.25	30.17	0.00	5.05	29.95	0.00	4.49	35.67	0.00	5.35	33.66	0.00	5.05	131.13	0.00	20.20
4	0.19	0.00	0.15	26.25	0.00	20.47	125.83	0.00	98.15	28.67	0.00	22.36	5.21	0.00	4.06	186.14	0.00	145.19
5	0.32	0.00	0.25	16.81	0.00	13.45	17.08	0.00	13.66	8.91	0.00	7.13	9.54	0.00	7.63	52.66	0.00	42.13
6	185.16	0.00	7.19	815.53	0.00	18.02	524.57	0.00	25.44	917.10	0.00	16.11	167.91	0.00	8.45	2610.26	0.00	75.21
7	326.13	0.00	3.20	213.27	0.00	1.08	2863.40	0.00	25.77	1599.56	0.00	14.42	0.00	0.00	0.00	5002.35	0.00	44.47
8	0.00	0.00	0.00	6658.60	0.00	59.93	0.00	0.00	0.00	5790.08	0.00	52.11	0.00	0.00	0.00	12448.68	0.00	112.04
9	37619.15	-2571.87	0.00	44857.17	0.00	0.00	3223.20	3223.20	0.00	55188.51	-3223.20	0.00	165940.94	0.00	0.00	306828.97	-2571.87	0.00
10	0.00	0.00	0.00	40.15	0.00	0.00	572.06	572.06	0.00	129.97	-572.06	0.00	28.00	0.00	0.00	770.19	0.00	0.00
Total	38153.74	-2571.87	14.20	52808.18	44.47	140.54	7559.51	3750.79	198.03	64483.39	-3795.26	235.22	166337.16	0.00	47.98	329341.98	-2571.87	635.98

b) Withdrawals by Source - All facilities

Water-Use Categ.	LAKE SUPERIOR			LAKE HURON			LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	16.65	2.58	1.89	64.81	38.34	47.08	107.71	18.88	76.82	728.65	36.50	19.77	38.14	108.84	4.91	955.97	205.15	150.47
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	1.67	0.00	0.00	30.17	0.00	0.00	29.95	0.00	0.00	35.67	0.00	0.00	33.66	0.00	0.00	131.13
4	0.00	0.13	0.06	0.00	20.16	6.09	0.00	92.49	33.35	0.00	21.24	7.42	0.00	3.88	1.33	0.00	137.90	48.24
5	0.00	0.00	0.32	0.00	0.00	16.81	0.00	0.00	17.08	0.00	0.00	8.91	0.00	0.00	9.54	0.00	0.00	52.66
6	172.00	10.91	2.25	722.78	79.60	13.16	487.72	27.29	9.56	801.05	112.78	3.28	132.59	29.98	5.34	2316.13	260.55	33.58
7	326.13	0.00	0.00	213.27	0.00	0.00	2863.40	0.00	0.00	1599.56	0.00	0.00	0.00	0.00	0.00	5002.35	0.00	0.00
8	0.00	0.00	0.00	6658.60	0.00	0.00	0.00	0.00	0.00	5790.08	0.00	0.00	0.00	0.00	0.00	12448.68	0.00	0.00
9	0.00	37619.15	0.00	23750.91	21106.25	0.00	3223.20	0.00	0.00	44841.74	10346.77	0.00	78105.48	87835.46	0.00	149921.34	156907.63	0.00
10	0.00	0.00	0.00	0.00	40.15	0.00	572.06	0.00	0.00	0.00	129.97	0.00	0.00	28.00	0.00	572.06	198.13	0.00
Total	514.78	37632.77	6.19	31410.37	21284.51	113.31	7254.09	138.66	166.76	53761.09	10647.26	75.04	78276.21	88006.17	54.78	171216.54	157709.36	416.08

c) Diversions by Type - All facilities

Water-Use Categ.	LAKE SUPERIOR		LAKE HURON		LAKE ERIE		LAKE ONTARIO		ST. LAWRENCE RIVER		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	44.47	0.00	-44.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	-2571.87	0.00	0.00	3223.20	0.00	-3223.20	0.00	0.00	0.00	0.00	-2571.87
10	0.00	0.00	0.00	0.00	572.06	0.00	-572.06	0.00	0.00	0.00	0.00	0.00
Total	0.00	-2571.87	44.47	0.00	3750.79	0.00	-3795.26	0.00	0.00	0.00	0.00	-2571.87

Level of Accuracy of Withdrawal Data: 6.9% Measured 93% Partially Measured .1% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 99.9% Site-specific .1% Aggregated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE SUPERIOR			LAKE HURON			LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	20.90	0.00	3.14	138.14	44.47	20.72	201.96	-44.47	30.30	781.33	0.00	117.20	150.90	0.00	22.63	1293.23	0.00	193.98
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	185.03	0.00	7.16	814.00	0.00	17.81	522.77	0.00	25.15	911.71	0.00	15.27	166.38	0.00	8.24	2599.88	0.00	73.62
7	326.13	0.00	3.20	213.27	0.00	1.08	2863.40	0.00	25.77	1599.56	0.00	14.42	0.00	0.00	0.00	5002.35	0.00	44.47
8	0.00	0.00	0.00	6658.60	0.00	59.93	0.00	0.00	0.00	5790.08	0.00	52.11	0.00	0.00	0.00	12448.68	0.00	112.04
9	37619.15	-2571.87	0.00	44857.17	0.00	0.00	3223.20	3223.20	0.00	55188.51	-3223.20	0.00	165940.94	0.00	0.00	306828.97	-2571.87	0.00
10	0.00	0.00	0.00	40.15	0.00	0.00	572.06	572.06	0.00	129.97	-572.06	0.00	28.00	0.00	0.00	770.19	0.00	0.00
Total	38151.20	-2571.87	13.49	52721.32	44.47	99.53	7383.39	3750.79	81.21	64401.17	-3795.26	199.00	166286.22	0.00	30.88	328943.30	-2571.87	424.12

b) Withdrawals by Source - Principal facilities

Water-Use Categ.	LAKE SUPERIOR			LAKE HURON			LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	16.58	2.42	1.89	64.46	32.87	40.80	107.71	18.80	75.45	728.57	36.01	16.74	38.14	108.56	4.20	955.47	198.67	139.08
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	171.98	10.88	2.17	722.75	78.78	12.47	487.64	26.39	8.74	800.79	109.34	1.59	132.51	29.32	4.54	2315.66	254.72	29.51
7	326.13	0.00	0.00	213.27	0.00	0.00	2863.40	0.00	0.00	1599.56	0.00	0.00	0.00	0.00	0.00	5002.35	0.00	0.00
8	0.00	0.00	0.00	6658.60	0.00	0.00	0.00	0.00	0.00	5790.08	0.00	0.00	0.00	0.00	0.00	12448.68	0.00	0.00
9	0.00	37619.15	0.00	23750.91	21106.25	0.00	3223.20	0.00	0.00	44841.74	10346.77	0.00	78105.48	87835.46	0.00	149921.34	156907.63	0.00
10	0.00	0.00	0.00	0.00	40.15	0.00	572.06	0.00	0.00	0.00	129.97	0.00	0.00	28.00	0.00	572.06	198.13	0.00
Total	514.69	37632.45	4.06	31409.99	21258.06	53.27	7254.01	45.19	84.19	53760.75	10622.10	18.33	78276.13	88001.35	8.74	171215.56	157559.15	168.59

c) Diversions by Type - Principal facilities

Water-Use Categ.	LAKE SUPERIOR		LAKE HURON		LAKE ERIE		LAKE ONTARIO		ST. LAWRENCE RIVER		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	44.47	0.00	-44.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	-2571.87	0.00	0.00	3223.20	0.00	-3223.20	0.00	0.00	0.00	0.00	-2571.87
10	0.00	0.00	0.00	0.00	572.06	0.00	-572.06	0.00	0.00	0.00	0.00	0.00
Total	0.00	-2571.87	44.47	0.00	3750.79	0.00	-3795.26	0.00	0.00	0.00	0.00	-2571.87

Level of Accuracy of Withdrawal Data: 6.9% Measured 93% Partially Measured .1% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 99.9% Site-specific .1% Aggregated

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE ERIE			LAKE ONTARIO			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	46.23	0.00	4.62	0.12	0.00	0.01	46.35	0.00	4.63
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	1.97	0.00	0.19	0.05	0.00	0.01	2.02	0.00	0.20
4	2.95	0.00	2.79	0.00	0.00	0.00	2.95	0.00	2.79
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	49.58	0.00	10.40	0.00	0.00	0.00	49.58	0.00	10.40
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	100.73	0.00	18.00	0.17	0.00	0.02	100.90	0.00	18.02

b) Withdrawals by Source - All facilities

Water-Use Categ.	LAKE ERIE			LAKE ONTARIO			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	42.70	1.09	2.44	0.00	0.00	0.12	42.70	1.09	2.56
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	1.97	0.00	0.00	0.05	0.00	0.00	2.02
4	0.00	2.16	0.79	0.00	0.00	0.00	0.00	2.16	0.79
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	47.74	1.57	0.27	0.00	0.00	0.00	47.74	1.57	0.27
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	90.44	4.82	5.47	0.00	0.00	0.17	90.44	4.82	5.64

c) Diversions by Type - All facilities

Water-Use Categ.	LAKE ERIE		LAKE ONTARIO		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00

Level of Accuracy of Withdrawal Data: 45.9% Measured 54.1% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 98% Site-specific 2% Aggregated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE ERIE			LAKE ONTARIO			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	45.68	0.00	4.57	0.00	0.00	0.00	45.68	0.00	4.57
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	2.69	0.00	2.53	0.00	0.00	0.00	2.69	0.00	2.53
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	49.32	0.00	10.37	0.00	0.00	0.00	49.32	0.00	10.37
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	97.69	0.00	17.47	0.00	0.00	0.00	97.69	0.00	17.47

b) Withdrawals by Source - Principal facilities

Water- Use Categ.	LAKE ERIE			LAKE ONTARIO			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	42.70	1.06	1.92	0.00	0.00	0.00	42.70	1.06	1.92
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	1.90	0.79	0.00	0.00	0.00	0.00	1.90	0.79
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	47.74	1.48	0.10	0.00	0.00	0.00	47.74	1.48	0.10
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	90.44	4.44	2.81	0.00	0.00	0.00	90.44	4.44	2.81

c) Diversions by Type - Principal facilities

Water- Use Categ.	LAKE ERIE		LAKE ONTARIO		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00

Level of Accuracy of Withdrawal Data: 45.9% Measured 54.1% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 98% Site-specific 2% Aggregated

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water- Use Categ.	ST. LAWRENCE RIVER			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	1403.81	0.00	140.28	1403.81	0.00	140.28
2	0.00	0.00	0.00	0.00	0.00	0.00
3	71.59	0.00	7.13	71.59	0.00	7.13
4	3.51	0.00	3.16	3.51	0.00	3.16
5	23.27	0.00	18.62	23.27	0.00	18.62
6	125.48	0.00	11.07	125.48	0.00	11.07
7	47.02	0.00	0.00	47.02	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	284233.60	0.00	0.00	284233.60	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	285908.30	0.00	180.26	285908.30	0.00	180.26

b) Withdrawals by Source - All facilities

Water- Use Categ.	ST. LAWRENCE RIVER			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	1001.21	402.60	0.00	1001.21	402.60	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	71.59	0.00	0.00	71.59
4	0.00	0.00	3.51	0.00	0.00	3.51
5	0.00	0.00	23.27	0.00	0.00	23.27
6	0.00	125.48	0.00	0.00	125.48	0.00
7	39.10	7.93	0.00	39.10	7.93	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	162967.02	121266.58	0.00	162967.02	121266.58	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	164007.33	121802.59	98.38	164007.33	121802.59	98.38

c) Diversions by Type - All facilities

Water- Use Categ.	ST. LAWRENCE RIVER		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00

Level of Accuracy of Withdrawal Data: 99.9% Measured .1% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 100% Site-specific

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water- Use Categ.	ST. LAWRENCE RIVER			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	1400.11	0.00	140.01	1400.11	0.00	140.01
2	0.00	0.00	0.00	0.00	0.00	0.00
3	48.61	0.00	4.76	48.61	0.00	4.76
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	124.95	0.00	11.04	124.95	0.00	11.04
7	47.02	0.00	0.00	47.02	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	284233.60	0.00	0.00	284233.60	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	285854.30	0.00	155.81	285854.30	0.00	155.81

b) Withdrawals by Source - Principal facilities

Water- Use Categ.	ST. LAWRENCE RIVER			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	1001.21	398.90	0.00	1001.21	398.90	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	48.61	0.00	0.00	48.61
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	124.95	0.00	0.00	124.95	0.00
7	39.10	7.93	0.00	39.10	7.93	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	162967.02	121266.58	0.00	162967.02	121266.58	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	164007.33	121798.36	48.61	164007.33	121798.36	48.61

c) Diversions by Type - Principal facilities

Water- Use Categ.	ST. LAWRENCE RIVER		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00

Level of Accuracy of Withdrawal Data: 99.9% Measured
Level of Aggregation of Withdrawal Data Source: 100% Site-specific

.1% Calculated or Estimated

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	4.90	0.00	.76	486.80	1.00	75.20	491.70	1.00	75.96
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.09	0.00	0.01	21.00	0.00	3.30	21.09	0.00	3.31
4	0.00	0.00	0.00	11.80	0.00	1.80	11.80	0.00	1.80
5	0.00	0.00	0.00	26.00	0.00	4.15	26.00	0.00	4.15
6	0.00	0.00	0.00	382.00	0.00	59.20	382.00	0.00	59.20
7	55.00	0.00	8.50	2052.80	0.00	318.23	2107.80	0.00	326.73
8	0.00	0.00	0.00	1459.80	0.00	14.60	1459.80	0.00	14.60
9	147.23	0.00	0.00	4309.74	0.00	0.00	4456.97	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	207.22	0.00	9.27	8749.94	1.00	476.48	8957.16	1.00	485.75

b) Withdrawals by Source - All facilities

Water-Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	4.90	0.00	0.00	247.10	24.00	215.70	252.00	24.00	215.70
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.09	0.00	0.00	21.00	0.00	0.00	21.09
4	0.00	0.00	0.00	0.00	0.00	11.80	0.00	0.00	11.80
5	0.00	0.00	0.00	0.00	3.00	23.00	0.00	3.00	23.00
6	0.00	0.00	0.00	2.00	365.00	15.00	2.00	365.00	15.00
7	55.00	0.00	0.00	2043.00	9.00	0.80	2098.00	9.00	0.80
8	0.00	0.00	0.00	1459.80	0.00	0.00	1459.80	0.00	0.00
9	0.00	147.23	0.00	0.00	4309.74	0.00	0.00	4456.97	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	59.90	147.23	0.09	3751.90	4710.74	287.30	3811.80	4857.97	287.39

c) Diversions by Type - All facilities

Water-Use Categ.	LAKE SUPERIOR		LAKE MICHIGAN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	1.00	0.00	1.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	1.00	0.00	1.00

Level of Accuracy of Withdrawal Data: 100% Calculated or Estimated
Level of Aggregation of Withdrawal Data Source: 100% Aggregated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	4.60	0.00	.76	486.80	1.00	75.20	491.40	1.00	75.96
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	5.90	0.00	3.80	5.90	0.00	3.80
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	338.50	0.00	54.50	338.50	0.00	54.50
7	55.00	0.00	8.50	2052.00	0.00	318.10	2107.00	0.00	326.60
8	0.00	0.00	0.00	1459.80	0.00	14.60	1459.80	0.00	14.60
9	147.23	0.00	0.00	4309.74	0.00	0.00	4456.97	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	206.83	0.00	9.26	8652.74	1.00	466.20	8859.57	1.00	475.46

b) Withdrawals by Source - Principal facilities

Water-Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	4.60	0.00	0.00	247.10	24.00	215.70	251.70	24.00	215.70
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	5.90	0.00	0.00	5.90
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	2.00	335.00	1.50	2.00	335.00	1.50
7	55.00	0.00	0.00	2043.00	9.00	0.00	2098.00	9.00	0.00
8	0.00	0.00	0.00	1459.80	0.00	0.00	1459.80	0.00	0.00
9	0.00	147.23	0.00	0.00	4309.74	0.00	0.00	4456.97	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	59.60	147.23	0.00	3751.90	4677.74	223.10	3811.50	4824.97	223.10

c) Diversions by Type - Principal facilities

Water-Use Categ.	LAKE SUPERIOR		LAKE MICHIGAN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	1.00	0.00	1.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	1.00	0.00	1.00

Level of Accuracy of Withdrawal Data: 100% Calculated or Estimated
Level of Aggregation of Withdrawal Data Source: 100% Aggregated

a) Withdrawals, Diversions and Consumptive Use - All Facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categor.	MICHIGAN*			MINNESOTA			ONTARIO			WISCONSIN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	0.00	0.00	0.00	41.25	0.00	8.67	21.12	0.00	3.17	4.90	0.00	0.74	67.27	0.00	12.60
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	1.87	0.00	0.15	1.67	0.00	0.25	0.09	0.00	0.01	3.63	0.00	0.41
4	0.00	0.00	0.00	0.53	0.00	0.46	0.19	0.00	0.15	0.00	0.00	0.00	0.72	0.00	0.61
5	0.00	0.00	0.00	3.25	0.00	0.00	0.32	0.00	0.25	0.00	0.00	0.00	3.57	0.00	0.25
6	0.00	0.00	0.00	209.63	0.00	60.13	185.16	0.00	7.19	0.00	0.00	0.00	394.79	0.00	67.32
7	260.77	0.00	3.39	155.35	0.00	3.11	326.13	0.00	3.20	55.00	0.00	8.50	797.25	0.00	18.20
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	4386.00	0.00	0.00	37619.15	-2571.87	0.00	147.23	0.00	0.00	42152.38	-2571.87	0.00
10	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00
Total	260.77	0.00	3.39	4798.08	0.00	72.52	38153.74	-2571.87	14.20	207.22	0.00	9.27	43419.81	-2571.87	99.38

b) Withdrawals by Source - All Facilities

Water-Use Categor.	MICHIGAN*			MINNESOTA			ONTARIO			WISCONSIN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	0.00	0.00	33.65	2.98	4.62	16.65	2.58	1.89	4.90	0.00	0.00	55.20	5.56	6.51
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	1.32	0.52	0.03	0.00	0.00	1.67	0.00	0.00	0.09	1.32	0.52	1.79
4	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.13	0.06	0.00	0.00	0.00	0.00	0.66	0.06
5	0.00	0.00	0.00	0.65	2.20	0.40	0.00	0.00	0.32	0.00	0.00	0.00	0.65	2.20	0.72
6	0.00	0.00	0.00	122.92	86.60	0.11	172.00	10.91	2.25	0.00	0.00	0.00	294.92	97.51	2.36
7	260.77	0.00	0.00	38.34	117.00	0.01	326.13	0.00	0.00	55.00	0.00	0.00	680.24	117.00	0.01
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	4386.00	0.00	0.00	37619.15	0.00	0.00	147.23	0.00	0.00	42152.38	0.00
10	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
Total	260.77	0.00	0.00	196.88	4595.83	5.37	514.78	37632.77	6.19	59.90	147.23	0.09	1032.33	42375.83	11.65

c) Diversions by Type - All Facilities

Water-Use Categor.	MICHIGAN*		MINNESOTA		ONTARIO		WISCONSIN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	-2571.87	0.00	0.00	0.00	-2571.87
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	-2571.87	0.00	0.00	0.00	-2571.87

*The State of Michigan was unable to report by sub-basin for most categories of use.

a) Withdrawals, Diversions and Consumptive Use - Principal Facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	MICHIGAN*			MINNESOTA			ONTARIO			WISCONSIN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	0.00	0.00	0.00	40.92	0.00	8.59	20.90	0.00	3.14	4.60	0.00	0.76	66.42	0.00	12.52
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	1.82	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	1.82	0.00	0.15
4	0.00	0.00	0.00	0.36	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.32
5	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00
6	0.00	0.00	0.00	209.27	0.00	60.09	185.03	0.00	7.16	0.00	0.00	0.00	394.30	0.00	67.25
7	0.00	0.00	0.00	155.25	0.00	3.11	326.13	0.00	3.20	55.00	0.00	8.50	536.38	0.00	14.81
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	4386.00	0.00	0.00	37619.15	-2571.87	0.00	147.23	0.00	0.00	42152.38	-2571.87	0.00
10	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00
Total	0.00	0.00	0.00	4794.40	0.00	72.26	38151.20	-2571.87	13.49	206.83	0.00	9.26	43152.43	-2571.87	95.01

b) Withdrawals by Source - Principal Facilities

Water-Use Categ.	MICHIGAN*			MINNESOTA			ONTARIO			WISCONSIN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	0.00	0.00	33.62	2.98	4.32	16.58	2.42	1.89	4.60	0.00	0.00	54.80	5.40	6.21
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	1.32	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.50	0.00
4	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
5	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00
6	0.00	0.00	0.00	122.92	86.35	0.00	171.98	10.88	2.17	0.00	0.00	0.00	294.90	97.23	2.17
7	0.00	0.00	0.00	38.34	116.91	0.00	326.13	0.00	0.00	55.00	0.00	0.00	419.47	116.91	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	4386.00	0.00	0.00	37619.15	0.00	0.00	147.23	0.00	0.00	42152.38	0.00
10	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
Total	0.00	0.00	0.00	196.85	4593.10	4.45	514.69	37632.45	4.06	59.60	147.23	0.00	771.14	42372.78	8.51

c) Diversions by Type - Principal Facilities

Water-Use Categ.	MICHIGAN*		MINNESOTA		ONTARIO		WISCONSIN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	-2571.87	0.00	0.00	0.00	-2571.87
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	-2571.87	0.00	0.00	0.00	-2571.87

*The State of Michigan was unable to report by sub-basin for most categories of use.

a) Withdrawals, Diversions and Consumptive Use - All Facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	ILLINOIS			INDIANA			MICHIGAN*			WISCONSIN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	1151.77	1151.77	0.00	146.79	-3.04	22.02	0.00	0.00	0.00	486.80	1.00	75.20	1785.36	1149.73	97.22
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	29.62	5.38	0.00	51.89	0.00	7.78	0.00	0.00	0.00	21.00	0.00	3.30	102.51	5.38	11.08
4	0.00	0.00	0.00	28.55	0.00	25.70	0.00	0.00	0.00	11.80	0.00	1.80	40.35	0.00	27.50
5	0.00	0.00	0.00	6.90	0.00	5.52	0.00	0.00	0.00	26.00	0.00	4.15	32.90	0.00	9.67
6	5.98	4.83	0.41	1712.23	0.00	102.74	0.00	0.00	0.00	382.00	0.00	59.20	2100.21	4.83	162.35
7	673.28	0.00	0.00	945.09	0.00	18.91	1091.72	0.00	14.20	2052.80	0.00	318.23	4762.89	0.00	351.34
8	1726.03	0.00	0.00	0.00	0.00	0.00	2161.29	0.00	28.10	1459.80	0.00	14.60	5347.12	0.00	42.70
9	0.00	0.00	0.00	37.27	0.00	0.00	0.00	0.00	0.00	4309.74	0.00	0.00	4347.01	0.00	0.00
10	305.42	305.42	0.00	0.23	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	305.65	305.42	0.02
Total	3892.10	1467.40	0.41	2928.95	-3.04	182.69	3253.01	0.00	42.30	8749.94	1.00	476.48	18824.00	1465.36	701.88

b) Withdrawals by Source - All Facilities

Water-Use Categ.	ILLINOIS			INDIANA			MICHIGAN*			WISCONSIN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	1151.77	0.00	0.00	89.80	0.00	56.99	0.00	0.00	0.00	247.10	24.00	215.70	1488.67	24.00	272.69
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	29.49	0.02	0.11	0.00	30.75	21.14	0.00	0.00	0.00	0.00	0.00	21.00	29.49	30.77	42.25
4	0.00	0.00	0.00	0.00	9.28	19.27	0.00	0.00	0.00	0.00	0.00	11.80	0.00	9.28	31.07
5	0.00	0.00	0.00	0.00	1.50	5.40	0.00	0.00	0.00	0.00	3.00	23.00	0.00	4.50	28.40
6	5.98	0.00	0.00	1680.45	8.64	23.14	0.00	0.00	0.00	2.00	365.00	15.00	1688.43	373.64	38.14
7	673.28	0.00	0.00	943.80	0.00	1.29	965.00	124.44	2.28	2043.00	9.00	0.80	4625.08	133.44	4.37
8	1726.03	0.00	0.00	0.00	0.00	0.00	2161.29	0.00	0.00	1459.80	0.00	0.00	5347.12	0.00	0.00
9	0.00	0.00	0.00	0.00	37.27	0.00	0.00	0.00	0.00	0.00	4309.74	0.00	0.00	4347.01	0.00
10	305.42	0.00	0.00	0.00	0.10	0.13	0.00	0.00	0.00	0.00	0.00	0.00	305.42	0.10	0.13
Total	3891.97	0.02	0.11	2714.05	87.54	127.36	3126.29	124.44	2.28	3751.90	4710.74	287.30	13484.21	4922.74	417.05

c) Diversions by Type - All Facilities

Water-Use Categ.	ILLINOIS		INDIANA		MICHIGAN*		WISCONSIN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	1151.77	0.00	-3.04	0.00	0.00	0.00	1.00	0.00	1149.73
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.38
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.83
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	305.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	305.42
Total	0.00	1467.40	0.00	-3.04	0.00	0.00	0.00	1.00	0.00	1465.36

*The State of Michigan was unable to report by sub-basin for most categories of use.

a) Withdrawals, Diversions and Consumptive Use - Principal Facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	ILLINOIS			INDIANA			MICHIGAN*			WISCONSIN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	1151.77	1151.77	0.00	146.14	-3.04	21.92	0.00	0.00	0.00	486.80	1.00	75.20	1784.71	1149.73	97.12
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	29.49	5.38	0.00	34.43	0.00	5.16	0.00	0.00	0.00	0.00	0.00	0.00	63.92	5.38	5.16
4	0.00	0.00	0.00	28.03	0.00	25.23	0.00	0.00	0.00	5.90	0.00	3.80	33.93	0.00	29.03
5	0.00	0.00	0.00	2.91	0.00	2.33	0.00	0.00	0.00	0.00	0.00	0.00	2.91	0.00	2.33
6	5.98	4.83	0.41	1711.49	0.00	102.70	0.00	0.00	0.00	338.50	0.00	54.50	2055.97	4.83	157.61
7	673.28	0.00	0.00	945.09	0.00	18.91	0.00	0.00	0.00	2052.00	0.00	318.10	3670.37	0.00	337.01
8	1726.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1459.80	0.00	14.60	3185.83	0.00	14.60
9	0.00	0.00	0.00	37.27	0.00	0.00	0.00	0.00	0.00	4309.74	0.00	0.00	4347.01	0.00	0.00
10	305.42	305.42	0.00	0.10	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	305.52	305.42	0.01
Total	3891.97	1467.40	0.41	2905.46	-3.04	176.26	0.00	0.00	0.00	8652.74	1.00	466.20	15450.17	1465.36	642.87

b) Withdrawals by Source - Principal Facilities

Water-Use Categ.	ILLINOIS			INDIANA			MICHIGAN*			WISCONSIN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	1151.77	0.00	0.00	89.80	0.00	56.34	0.00	0.00	0.00	247.10	24.00	215.70	1488.67	24.00	272.04
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	29.49	0.00	0.00	0.00	30.74	3.69	0.00	0.00	0.00	0.00	0.00	0.00	29.49	30.74	3.69
4	0.00	0.00	0.00	0.00	9.02	19.01	0.00	0.00	0.00	0.00	0.00	5.90	0.00	9.02	24.91
5	0.00	0.00	0.00	0.00	1.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.41
6	5.98	0.00	0.00	1680.45	8.62	22.42	0.00	0.00	0.00	2.00	335.00	1.50	1688.43	343.62	23.92
7	673.28	0.00	0.00	943.80	0.00	1.29	0.00	0.00	0.00	2043.00	9.00	0.00	3660.08	9.00	1.29
8	1726.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1459.80	0.00	0.00	3185.83	0.00	0.00
9	0.00	0.00	0.00	0.00	37.27	0.00	0.00	0.00	0.00	0.00	4309.74	0.00	0.00	4347.01	0.00
10	305.42	0.00	0.00	0.00	0.06	0.04	0.00	0.00	0.00	0.00	0.00	0.00	305.42	0.06	0.04
Total	3891.97	0.00	0.00	2714.05	87.21	104.20	0.00	0.00	0.00	3751.90	4677.74	223.10	10357.92	4764.95	327.30

c) Diversions by Type - Principal Facilities

Water-Use Categ.	ILLINOIS		INDIANA		MICHIGAN*		WISCONSIN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	1151.77	0.00	-3.04	0.00	0.00	0.00	1.00	0.00	1149.73
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	5.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.38
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.83
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	305.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	305.42
Total	0.00	1467.40	0.00	-3.04	0.00	0.00	0.00	1.00	0.00	1465.36

*The State of Michigan was unable to report by sub-basin for most categories of use.

a) Withdrawals, Diversions and Consumptive Use - All Facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	MICHIGAN*			ONTARIO			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	0.00	0.00	0.00	150.24	44.47	22.54	150.24	44.47	22.54
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	30.17	0.00	5.05	30.17	0.00	5.05
4	0.00	0.00	0.00	26.25	0.00	20.47	26.25	0.00	20.47
5	0.00	0.00	0.00	16.81	0.00	13.45	16.81	0.00	13.45
6	0.00	0.00	0.00	815.53	0.00	18.02	815.53	0.00	18.02
7	652.47	0.00	8.48	213.27	0.00	1.08	865.74	0.00	9.56
8	0.00	0.00	0.00	6658.60	0.00	59.93	6658.60	0.00	59.93
9	0.00	0.00	0.00	44857.17	0.00	0.00	44857.17	0.00	0.00
10	0.00	0.00	0.00	40.15	0.00	0.00	40.15	0.00	0.00
Total	652.47	0.00	8.48	52808.18	44.47	140.54	53460.65	44.47	149.02

b) Withdrawals by Source - All Facilities

Water-Use Categ.	MICHIGAN*			ONTARIO			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	0.00	0.00	64.81	38.34	47.08	64.81	38.34	47.08
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	30.17	0.00	0.00	30.17
4	0.00	0.00	0.00	0.00	20.16	6.09	0.00	20.16	6.09
5	0.00	0.00	0.00	0.00	0.00	16.81	0.00	0.00	16.81
6	0.00	0.00	0.00	722.78	79.60	13.16	722.78	79.60	13.16
7	652.44	0.03	0.00	213.27	0.00	0.00	865.71	0.03	0.00
8	0.00	0.00	0.00	6658.60	0.00	0.00	6658.60	0.00	0.00
9	0.00	0.00	0.00	23750.91	21106.25	0.00	23750.91	21106.25	0.00
10	0.00	0.00	0.00	0.00	40.15	0.00	0.00	40.15	0.00
Total	652.44	0.03	0.00	31410.37	21284.51	113.31	32062.81	21284.54	113.31

c) Diversions by Type - All Facilities

Water-Use Categ.	MICHIGAN*		ONTARIO		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	44.47	0.00	44.47	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	44.47	0.00	44.47	0.00

*The State of Michigan was unable to report by sub-basin for most categories of use.

a) Withdrawals, Diversions and Consumptive Use - Principal Facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	MICHIGAN*			ONTARIO			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	0.00	0.00	0.00	138.14	44.47	20.72	138.14	44.47	20.72
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	814.00	0.00	17.81	814.00	0.00	17.81
7	0.00	0.00	0.00	213.27	0.00	1.08	213.27	0.00	1.08
8	0.00	0.00	0.00	6658.60	0.00	59.93	6658.60	0.00	59.93
9	0.00	0.00	0.00	44857.17	0.00	0.00	44857.17	0.00	0.00
10	0.00	0.00	0.00	40.15	0.00	0.00	40.15	0.00	0.00
Total	0.00	0.00	0.00	52721.32	44.47	99.53	52721.32	44.47	99.53

b) Withdrawals by Source - Principal Facilities

Water-Use Categ.	MICHIGAN*			ONTARIO			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	0.00	0.00	64.46	32.87	40.80	64.46	32.87	40.80
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	722.75	78.78	12.47	722.75	78.78	12.47
7	0.00	0.00	0.00	213.27	0.00	0.00	213.27	0.00	0.00
8	0.00	0.00	0.00	6658.60	0.00	0.00	6658.60	0.00	0.00
9	0.00	0.00	0.00	23750.91	21106.25	0.00	23750.91	21106.25	0.00
10	0.00	0.00	0.00	40.15	0.00	0.00	40.15	0.00	0.00
Total	0.00	0.00	0.00	31409.99	21258.06	53.27	31409.99	21258.06	53.27

c) Diversions by Type - Principal Facilities

Water-Use Categ.	MICHIGAN*		ONTARIO		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	44.47	0.00	44.47	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	44.47	0.00	44.47	0.00

*The State of Michigan was unable to report by sub-basin for most categories of use.

a) Withdrawals, Diversions and Consumptive Use - All Facilities

Water-Use Categ.	INDIANA			MICHIGAN*			NEW YORK			OHIO			ONTARIO			PENNSYLVANIA			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	37.97	0.00	5.69	0.00	0.00	0.00	206.00	0.00	20.60	611.36	0.22	91.69	203.42	-44.47	30.51	46.23	0.00	4.62	1104.98	-44.25	153.11
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	8.57	0.00	1.29	0.00	0.00	0.00	78.00	0.00	7.80	60.29	0.00	9.04	29.95	0.00	4.49	1.97	0.00	0.19	178.78	0.00	22.81
4	1.85	0.00	1.66	0.00	0.00	0.00	1.60	0.00	0.16	14.73	0.00	13.26	125.83	0.00	98.15	2.95	0.00	2.79	146.96	0.00	116.02
5	1.81	0.00	1.45	0.00	0.00	0.00	1.40	0.00	1.10	12.76	0.00	10.21	17.08	0.00	13.66	0.00	0.00	0.00	33.05	0.00	26.42
6	14.30	0.00	0.86	0.00	0.00	0.00	58.40	0.00	5.80	240.90	0.00	24.09	524.57	0.00	25.44	49.58	0.00	10.40	887.75	0.00	66.59
7	0.27	0.00	0.01	4221.04	0.00	54.87	483.00	0.00	1.00	2467.66	0.00	0.22	2863.40	0.00	25.77	0.00	0.00	0.00	10035.37	0.00	81.87
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	145.35	0.00	24.95	0.00	0.00	0.00	0.00	0.00	0.00	145.35	0.00	24.95
9	0.00	0.00	0.00	0.00	0.00	0.00	560.00	0.00	0.00	0.00	0.00	0.00	3223.20	3223.20	0.00	0.00	0.00	0.00	3783.20	3223.20	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.14	-10.81	0.00	572.06	572.06	0.00	0.00	0.00	0.00	579.20	561.25	0.00
Total	64.77	0.00	10.96	4221.04	0.00	54.87	1388.40	0.00	36.46	3560.19	-10.59	173.46	7559.51	3750.79	198.03	100.73	0.00	18.00	16894.64	3740.20	491.78

b) Withdrawals by Source - All Facilities

Water-Use Categ.	INDIANA			MICHIGAN*			NEW YORK			OHIO			ONTARIO			PENNSYLVANIA			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	32.56	5.41	0.00	0.00	0.00	160.00	46.00	0.00	473.57	102.65	35.14	107.71	18.88	76.82	42.70	1.09	2.44	783.98	201.18	119.81
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.05	8.52	0.00	0.00	0.00	10.00	10.00	58.00	0.00	0.00	60.29	0.00	0.00	29.95	0.00	0.00	1.97	10.00	10.05	158.73
4	0.00	0.65	1.20	0.00	0.00	0.00	1.20	0.00	0.40	0.00	10.48	4.25	0.00	92.49	33.35	0.00	2.16	0.79	1.20	105.78	39.99
5	0.00	0.00	1.81	0.00	0.00	0.00	0.50	0.00	0.90	0.00	2.09	10.67	0.00	0.00	17.08	0.00	0.00	0.00	0.50	2.09	30.46
6	0.00	12.05	2.25	0.00	0.00	0.00	55.00	0.00	3.40	51.32	158.25	31.33	487.72	27.29	9.56	47.74	1.57	0.27	641.78	199.16	46.81
7	0.00	0.00	0.27	4220.95	0.09	0.00	483.00	0.00	0.00	2380.91	86.75	0.00	2863.40	0.00	0.00	0.00	0.00	0.00	0.00	9948.26	86.84
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	145.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	145.35	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	560.00	0.00	0.00	0.00	0.00	0.00	3223.20	0.00	0.00	0.00	0.00	0.00	3783.20	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.19	2.95	3.00	572.06	0.00	0.00	0.00	0.00	0.00	573.25	2.95	3.00
Total	0.00	45.31	19.46	4220.95	0.09	0.00	1269.70	56.00	62.70	3052.34	363.17	144.68	7254.09	138.66	166.76	90.44	4.82	5.47	15887.52	608.05	399.07

c) Diversions by Type - All Facilities

Water-Use Categ.	INDIANA		MICHIGAN*		NEW YORK		OHIO		ONTARIO		PENNSYLVANIA		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	-44.47	0.00	0.00	0.00	-44.47	0.22
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3223.20	0.00	0.00	0.00	3223.20	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	572.06	0.00	0.00	0.00	572.06	-10.81
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.59	3750.79	0.00	0.00	0.00	3750.79	-10.59

*The State of Michigan was unable to report by sub-basin for most categories of use.

a) Withdrawals, Diversions and Consumptive Use - Principal Facilities

Water-Use Category	INDIANA			MICHIGAN*			NEW YORK			OHIO			ONTARIO			PENNSYLVANIA			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	37.77	0.00	5.66	0.00	0.00	0.00	0.00	0.00	0.00	609.02	0.22	91.35	201.96	-44.47	30.30	45.68	0.00	4.57	894.43	-44.25	131.88
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.18	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	1.49	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	1.67	0.00	0.25
4	1.56	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	9.28	0.00	8.35	0.00	0.00	0.00	2.69	0.00	2.53	13.53	0.00	12.29
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.39
6	14.08	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	237.87	0.00	23.78	522.77	0.00	25.15	49.32	0.00	10.37	824.04	0.00	60.14
7	0.27	0.00	0.01	0.00	0.00	0.00	483.00	0.00	0.00	2467.66	0.00	0.22	2863.40	0.00	25.77	0.00	0.00	0.00	5814.33	0.00	26.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	145.35	0.00	24.95	0.00	0.00	0.00	0.00	0.00	0.00	145.35	0.00	24.95
9	0.00	0.00	0.00	0.00	0.00	0.00	560.00	0.00	0.00	0.00	0.00	0.00	3223.20	3223.20	0.00	0.00	0.00	0.00	3783.20	3223.20	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.86	-10.81	0.00	572.06	572.06	0.00	0.00	0.00	0.00	578.92	561.25	0.00
Total	53.86	0.00	7.95	0.00	0.00	0.00	1043.00	0.00	0.00	3478.02	-10.59	149.26	7383.39	3750.79	81.21	97.69	0.00	17.47	12055.96	3740.20	255.89

b) Withdrawals by Source - Principal Facilities

Water-Use Category	INDIANA			MICHIGAN*			NEW YORK			OHIO			ONTARIO			PENNSYLVANIA			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	32.56	5.21	0.00	0.00	0.00	0.00	0.00	0.00	473.27	102.11	33.64	107.71	18.80	75.45	42.70	1.06	1.92	623.68	154.53	116.22
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.05	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.62
4	0.00	0.60	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.34	1.94	0.00	0.00	0.00	0.00	1.90	0.79	0.00	9.84	3.69
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00
6	0.00	12.04	2.04	0.00	0.00	0.00	0.00	0.00	0.00	51.32	156.01	30.54	487.64	26.39	8.74	47.74	1.48	0.10	586.70	195.92	41.42
7	0.00	0.00	0.27	0.00	0.00	0.00	483.00	0.00	0.00	2380.91	86.75	0.00	2863.40	0.00	0.00	0.00	0.00	0.00	5727.31	86.75	0.27
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	145.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	145.35	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	560.00	0.00	0.00	0.00	0.00	0.00	3223.20	0.00	0.00	0.00	0.00	0.00	3783.20	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.19	2.95	2.72	572.06	0.00	0.00	0.00	0.00	0.00	573.25	2.95	2.72
Total	0.00	45.25	8.61	0.00	0.00	0.00	1043.00	0.00	0.00	3052.04	355.65	70.33	7254.01	45.19	84.19	90.44	4.44	2.81	11439.49	450.53	165.94

c) Diversions by Type - Principal Facilities

Water-Use Category	INDIANA		MICHIGAN*		NEW YORK		OHIO		ONTARIO		PENNSYLVANIA		TOTAL		
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	-44.47	0.00	0.00	0.00	0.00	-44.47	0.22
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3223.20	0.00	0.00	0.00	0.00	3223.20	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.81	572.06	0.00	0.00	0.00	0.00	572.06	-10.81
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.59	3750.79	0.00	0.00	0.00	0.00	3750.79	-10.59

The State of Michigan was unable to report by sub-basin for most categories of use.

BASIN REPORT - Lake Ontario

DATE: 01/22/93

a) Withdrawals, Diversions and Consumptive Use - All Facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water- Use Categ.	NEW YORK			ONTARIO			PENNSYLVANIA			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	266.00	0.00	26.60	784.92	0.00	117.74	0.12	0.00	0.01	1051.04	0.00	144.35
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	290.00	0.00	29.00	35.67	0.00	5.35	0.05	0.00	0.01	325.72	0.00	34.36
4	8.00	0.00	0.80	28.67	0.00	22.36	0.00	0.00	0.00	36.67	0.00	23.16
5	6.40	0.00	3.30	8.91	0.00	7.13	0.00	0.00	0.00	15.31	0.00	10.43
6	220.00	0.00	22.00	917.10	0.00	16.11	0.00	0.00	0.00	1137.10	0.00	38.11
7	2252.00	0.00	8.00	1599.56	0.00	14.42	0.00	0.00	0.00	3851.56	0.00	22.42
8	1295.00	0.00	3.00	5790.08	0.00	52.11	0.00	0.00	0.00	7085.08	0.00	55.11
9	145828.00	0.00	0.00	55188.51	-3223.20	0.00	0.00	0.00	0.00	201016.51	-3223.20	0.00
10	396.00	396.00	0.00	129.97	-572.06	0.00	0.00	0.00	0.00	525.97	-176.06	0.00
Total	150561.40	396.00	92.70	64483.39	-3795.26	235.22	0.17	0.00	0.02	215044.96	-3399.26	327.94

b) Withdrawals by Source - All Facilities

Water- Use Categ.	NEW YORK			ONTARIO			PENNSYLVANIA			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	96.00	139.00	31.00	728.65	36.50	19.77	0.00	0.00	0.12	824.65	175.50	50.89
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	101.00	96.00	93.00	0.00	0.00	35.67	0.00	0.00	0.05	101.00	96.00	128.72
4	7.00	0.00	1.00	0.00	21.24	7.42	0.00	0.00	0.00	7.00	21.24	8.42
5	2.50	0.00	3.90	0.00	0.00	8.91	0.00	0.00	0.00	2.50	0.00	12.81
6	180.00	0.00	40.00	801.05	112.78	3.28	0.00	0.00	0.00	981.05	112.78	43.28
7	2252.00	0.00	0.00	1599.56	0.00	0.00	0.00	0.00	0.00	3851.56	0.00	0.00
8	1295.00	0.00	0.00	5790.08	0.00	0.00	0.00	0.00	0.00	7085.08	0.00	0.00
9	145828.00	0.00	0.00	44841.74	10346.77	0.00	0.00	0.00	0.00	190669.74	10346.77	0.00
10	396.00	0.00	0.00	0.00	129.97	0.00	0.00	0.00	0.00	396.00	129.97	0.00
Total	150157.50	235.00	168.90	53761.09	10647.26	75.04	0.00	0.00	0.17	203918.59	10882.26	244.11

c) Diversions by Type - All Facilities

Water- Use Categ.	NEW YORK		ONTARIO		PENNSYLVANIA		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	-3223.20	0.00	0.00	0.00	-3223.20	0.00
10	396.00	0.00	-572.06	0.00	0.00	0.00	-176.06	0.00
Total	396.00	0.00	-3795.26	0.00	0.00	0.00	-3399.26	0.00

a) Withdrawals, Diversions and Consumptive Use - Principal Facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water-Use Categ.	NEW YORK			ONTARIO			PENNSYLVANIA			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	0.00	0.00	0.00	781.33	0.00	117.20	0.00	0.00	0.00	781.33	0.00	117.20
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	911.71	0.00	15.27	0.00	0.00	0.00	911.71	0.00	15.27
7	2252.00	0.00	0.00	1599.56	0.00	14.42	0.00	0.00	0.00	3851.56	0.00	14.42
8	1295.00	0.00	0.00	5790.08	0.00	52.11	0.00	0.00	0.00	7085.08	0.00	52.11
9	49429.00	0.00	0.00	55188.51	-3223.20	0.00	0.00	0.00	0.00	104617.51	-3223.20	0.00
10	396.00	0.00	0.00	129.97	-572.06	0.00	0.00	0.00	0.00	525.97	-572.06	0.00
Total	53372.00	0.00	0.00	64401.17	-3795.26	199.00	0.00	0.00	0.00	117773.17	-3795.26	199.00

b) Withdrawals by Source - Principal Facilities

Water-Use Categ.	NEW YORK			ONTARIO			PENNSYLVANIA			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	0.00	0.00	728.57	36.01	16.74	0.00	0.00	0.00	728.57	36.01	16.74
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	800.79	109.34	1.59	0.00	0.00	0.00	800.79	109.34	1.59
7	2252.00	0.00	0.00	1599.56	0.00	0.00	0.00	0.00	0.00	3851.56	0.00	0.00
8	1295.00	0.00	0.00	5790.08	0.00	0.00	0.00	0.00	0.00	7085.08	0.00	0.00
9	49429.00	0.00	0.00	44841.74	10346.77	0.00	0.00	0.00	0.00	94270.74	10346.77	0.00
10	396.00	0.00	0.00	0.00	129.97	0.00	0.00	0.00	0.00	396.00	129.97	0.00
Total	53372.00	0.00	0.00	53760.75	10622.10	18.33	0.00	0.00	0.00	107132.75	10622.10	18.33

c) Diversions by Type - Principal Facilities

Water-Use Categ.	NEW YORK		ONTARIO		PENNSYLVANIA		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	-3223.20	0.00	0.00	0.00	-3223.20	0.00
10	0.00	0.00	-572.06	0.00	0.00	0.00	-572.06	0.00
Total	0.00	0.00	-3795.26	0.00	0.00	0.00	-3795.26	0.00

a) Withdrawals, Diversions and Consumptive Use - All Facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water- Use Categ.	NEW YORK			ONTARIO			QUEBEC			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	126.00	0.00	12.60	151.89	0.00	22.78	1403.81	0.00	140.28	1681.70	0.00	175.66
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	90.00	0.00	9.00	33.66	0.00	5.05	71.59	0.00	7.13	195.25	0.00	21.18
4	1.10	0.00	0.11	5.21	0.00	4.06	3.51	0.00	3.16	9.83	0.00	7.34
5	3.00	0.00	2.40	9.54	0.00	7.63	23.27	0.00	18.62	35.82	0.00	28.65
6	73.00	0.00	7.30	167.91	0.00	8.45	125.48	0.00	11.07	366.39	0.00	26.82
7	0.00	0.00	0.00	0.00	0.00	0.00	47.02	0.00	0.00	47.02	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	142309.00	0.00	0.00	165940.94	0.00	0.00	284233.60	0.00	0.00	592483.55	0.00	0.00
10	168.00	168.00	0.00	28.00	0.00	0.00	0.00	0.00	0.00	196.00	168.00	0.00
Total	142770.10	168.00	31.41	166337.16	0.00	47.98	285908.30	0.00	180.26	595015.56	168.00	259.65

b) Withdrawals by Source - All Facilities

Water- Use Categ.	NEW YORK			ONTARIO			QUEBEC			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	101.00	0.00	25.00	38.14	108.84	4.91	1001.21	402.60	0.00	1140.36	511.44	29.91
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	51.00	20.00	19.00	0.00	0.00	33.66	0.00	0.00	71.59	51.00	20.00	124.25
4	1.00	0.00	0.10	0.00	3.88	1.33	0.00	0.00	3.51	1.00	3.88	4.94
5	1.00	0.00	2.00	0.00	0.00	9.54	0.00	0.00	23.27	1.00	0.00	34.82
6	68.00	0.00	5.00	132.59	29.98	5.34	0.00	125.48	0.00	200.59	155.47	10.34
7	0.00	0.00	0.00	0.00	0.00	0.00	39.10	7.93	0.00	39.10	7.93	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	142309.00	0.00	0.00	78105.48	87835.46	0.00	162967.02	121266.58	0.00	383381.50	209102.04	0.00
10	168.00	0.00	0.00	0.00	28.00	0.00	0.00	0.00	0.00	168.00	28.00	0.00
Total	142699.00	20.00	51.10	78276.21	88006.17	54.78	164007.33	121802.59	98.38	384982.54	209828.76	204.26

c) Diversions by Type - All Facilities

Water- Use Categ.	NEW YORK		ONTARIO		QUEBEC		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	168.00	0.00	0.00	0.00	0.00	0.00	168.00	0.00
Total	168.00	0.00	0.00	0.00	0.00	0.00	168.00	0.00

a) Withdrawals, Diversions and Consumptive Use - Principal Facilities

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Water- Use Categ.	NEW YORK			ONTARIO			QUEBEC			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	0.00	0.00	0.00	150.90	0.00	22.63	1400.11	0.00	140.01	1551.02	0.00	162.65
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	48.61	0.00	4.76	48.61	0.00	4.76
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	166.38	0.00	8.24	124.95	0.00	11.04	291.33	0.00	19.28
7	0.00	0.00	0.00	0.00	0.00	0.00	47.02	0.00	0.00	47.02	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	84918.00	0.00	0.00	165940.94	0.00	0.00	284233.60	0.00	0.00	535092.55	0.00	0.00
10	168.00	168.00	0.00	28.00	0.00	0.00	0.00	0.00	0.00	196.00	168.00	0.00
Total	85086.00	168.00	0.00	166286.22	0.00	30.88	285854.30	0.00	155.81	537226.52	168.00	186.69

b) Withdrawals by Source - Principal Facilities

Water- Use Categ.	NEW YORK			ONTARIO			QUEBEC			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	0.00	0.00	38.14	108.56	4.20	1001.21	398.90	0.00	1039.36	507.46	4.20
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.61	0.00	0.00	48.61
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	132.51	29.32	4.54	0.00	124.95	0.00	132.51	154.28	4.54
7	0.00	0.00	0.00	0.00	0.00	0.00	39.10	7.93	0.00	39.10	7.93	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	84918.00	0.00	0.00	78105.48	87835.46	0.00	162967.02	121266.58	0.00	325990.50	209102.04	0.00
10	168.00	0.00	0.00	0.00	28.00	0.00	0.00	0.00	0.00	168.00	28.00	0.00
Total	85086.00	0.00	0.00	78276.13	88001.35	8.74	164007.33	121798.36	48.61	327369.46	209799.71	57.35

c) Diversions by Type - Principal Facilities

Water- Use Categ.	NEW YORK		ONTARIO		QUEBEC		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	168.00	0.00	0.00	0.00	0.00	0.00	168.00	0.00
Total	168.00	0.00	0.00	0.00	0.00	0.00	168.00	0.00

a) Water-Use by Basin - All Jurisdictions

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Basin	All Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	55.20	5.56	6.51	67.27	0.00	0.00	0.00	12.60
Lake Michigan	1488.67	24.00	272.69	1785.36	0.00	1149.73	1149.73	97.22
Lake Huron	64.81	38.34	47.08	150.24	44.47	0.00	44.47	22.54
Lake Erie	783.98	201.18	119.81	1104.98	-44.47	0.22	-44.25	153.11
Lake Ontario	824.65	175.50	50.89	1051.04	0.00	0.00	0.00	144.35
St.Lawrence River	1140.36	511.44	29.91	1681.70	0.00	0.00	0.00	175.66
Total	4357.68	956.03	526.89	7064.59*	0.00	1149.95	1149.95	728.48*

	Principal Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
	54.80	5.40	6.21	66.42	0.00	0.00	0.00	12.49
	1488.67	24.00	272.04	1784.71	0.00	1149.73	1149.73	97.12
	64.46	32.87	40.80	138.14	44.47	0.00	44.47	20.72
	623.68	154.53	116.22	894.43	-44.47	0.22	-44.25	131.88
	728.57	36.01	16.74	781.33	0.00	0.00	0.00	117.20
	1039.36	507.46	4.20	1551.02	0.00	0.00	0.00	162.65
Total	3999.55	760.28	456.21	5216.04	0.00	1149.95	1149.95	542.06

b) Water-Use by Jurisdiction - All Basins

Jurisdiction	All Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	1151.77	0.00	0.00	1151.77	0.00	1151.77	1151.77	0.00
Indiana	89.80	32.56	62.40	184.76	0.00	-3.04	-3.04	27.71
Michigan	0.00	0.00	0.00	1224.00*	0.00	0.00	0.00	123.00*
Minnesota	33.65	2.98	4.62	41.25	0.00	0.00	0.00	8.67
New York	357.00	185.00	56.00	598.00	0.00	0.00	0.00	59.80
Ohio	473.57	102.65	35.14	611.36	0.00	0.22	0.22	91.69
Ontario	955.97	205.15	150.47	1311.59	0.00	0.00	0.00	196.75
Pennsylvania	42.70	1.09	2.56	46.35	0.00	0.00	0.00	4.63
Quebec	1001.21	402.60	0.00	1403.81	0.00	0.00	0.00	140.28
Wisconsin	252.00	24.00	215.70	491.70	0.00	1.00	1.00	75.96
Total	4357.68	956.03	526.89	7064.59*	0.00	1149.95	1149.95	728.48*

	Principal Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
	1151.77	0.00	0.00	1151.77	0.00	1151.77	1151.77	0.00
	89.80	32.56	61.55	183.91	0.00	-3.04	-3.04	27.58
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	33.62	2.98	4.32	40.92	0.00	0.00	0.00	8.59
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	473.27	102.11	33.64	609.02	0.00	0.22	0.22	91.35
	955.47	198.67	139.08	1293.23	0.00	0.00	0.00	193.98
	42.70	1.06	1.92	45.68	0.00	0.00	0.00	4.57
	1001.21	398.90	0.00	1400.11	0.00	0.00	0.00	140.01
	251.70	24.00	215.70	491.40	0.00	1.00	1.00	75.96
Total	3999.55	760.28	456.21	5216.04	0.00	1149.95	1149.95	542.06

*The total presented is larger than the sum of water use categories. This is due to statewide data from Michigan. Michigan's withdrawals and consumptive uses for this category cannot presently be reported by individual sub-basin or water withdrawal type.

WATER-USE CATEGORY REPORT - Self-supply - domestic (residential, commercial, institutional)

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

All Facilities								
Basin	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	1.32	0.52	1.79	3.63	0.00	0.00	0.00	0.41
Lake Michigan	29.49	30.77	42.25	102.51	0.00	5.38	5.38	11.08
Lake Huron	0.00	0.00	30.17	30.17	0.00	0.00	0.00	5.05
Lake Erie	10.00	10.05	158.73	178.78	0.00	0.00	0.00	22.81
Lake Ontario	101.00	96.00	128.72	325.72	0.00	0.00	0.00	34.36
St. Lawrence River	51.00	20.00	124.25	195.25	0.00	0.00	0.00	21.18
Total	192.81	157.34	485.92	836.07	0.00	5.38	5.38	94.90

Principal Facilities								
Basin	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	1.32	0.50	0.00	1.82	0.00	0.00	0.00	0.15
Lake Michigan	29.49	30.74	3.69	63.92	0.00	5.38	5.38	5.16
Lake Huron	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Erie	0.00	0.05	1.62	1.67	0.00	0.00	0.00	0.25
Lake Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
St. Lawrence River	0.00	0.00	48.61	48.61	0.00	0.00	0.00	4.76
Total	30.81	31.29	53.92	116.02	0.00	5.38	5.38	10.32

b) Water-Use by Jurisdiction - All Basins

All Facilities								
Jurisdiction	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	29.49	0.02	0.11	29.62	0.00	5.38	5.38	0.00
Indiana	0.00	30.80	29.66	60.46	0.00	0.00	0.00	9.07
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	1.32	0.52	0.03	1.87	0.00	0.00	0.00	0.15
New York	162.00	126.00	170.00	458.00	0.00	0.00	0.00	45.80
Ohio	0.00	0.00	60.29	60.29	0.00	0.00	0.00	9.04
Ontario	0.00	0.00	131.13	131.13	0.00	0.00	0.00	20.20
Pennsylvania	0.00	0.00	2.02	2.02	0.00	0.00	0.00	0.20
Quebec	0.00	0.00	71.59	71.59	0.00	0.00	0.00	7.13
Wisconsin	0.00	0.00	21.09	21.09	0.00	0.00	0.00	3.31
Total	192.81	157.34	485.92	836.07	0.00	5.38	5.38	94.90

Principal Facilities								
Jurisdiction	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	29.49	0.00	0.00	29.49	0.00	5.38	5.38	0.00
Indiana	0.00	30.79	3.82	34.61	0.00	0.00	0.00	5.19
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	1.32	0.50	0.00	1.82	0.00	0.00	0.00	0.15
New York	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ohio	0.00	0.00	1.49	1.49	0.00	0.00	0.00	0.22
Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	0.00	0.00	48.61	48.61	0.00	0.00	0.00	4.76
Wisconsin	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	30.81	31.29	53.92	116.02	0.00	5.38	5.38	10.32

WATER-USE CATEGORY REPORT - Self-supply - irrigation

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

All Facilities									
Basin	Withdrawals				Diversions			Consumptive Use	
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		
Lake Superior	0.00	0.66	0.06	0.72	0.00	0.00	0.00	0.61	
Lake Michigan	0.00	9.28	31.07	40.35	0.00	0.00	0.00	27.50	
Lake Huron	0.00	20.16	6.09	26.25	0.00	0.00	0.00	20.47	
Lake Erie	1.20	105.78	39.99	146.96	0.00	0.00	0.00	116.02	
Lake Ontario	7.00	21.24	8.42	36.67	0.00	0.00	0.00	23.16	
St. Lawrence River	1.00	3.88	4.94	9.83	0.00	0.00	0.00	7.34	
Total	9.20	161.00	90.57	497.77*	0.00	0.00	0.00	420.09*	

Principal Facilities									
Basin	Withdrawals				Diversions			Consumptive Use	
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		
Lake Superior	0.00	0.36	0.00	0.36	0.00	0.00	0.00	0.32	
Lake Michigan	0.00	9.02	24.91	33.93	0.00	0.00	0.00	29.03	
Lake Huron	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lake Erie	0.00	9.84	3.69	13.53	0.00	0.00	0.00	12.29	
Lake Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
St. Lawrence River	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	19.22	28.60	47.82	0.00	0.00	0.00	41.64	

b) Water-Use by Jurisdiction - All Basins

All Facilities									
Jurisdiction	Withdrawals				Diversions			Consumptive Use	
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		
Illinois	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Indiana	0.00	9.93	20.47	30.40	0.00	0.00	0.00	27.36	
Michigan	0.00	0.00	0.00	237.00*	0.00	0.00	0.00	225.00*	
Minnesota	0.00	0.53	0.00	0.53	0.00	0.00	0.00	0.46	
New York	9.20	0.00	1.50	10.70	0.00	0.00	0.00	1.07	
Ohio	0.00	10.48	4.25	14.73	0.00	0.00	0.00	13.26	
Ontario	0.00	137.90	48.24	186.14	0.00	0.00	0.00	145.19	
Pennsylvania	0.00	2.16	0.79	2.95	0.00	0.00	0.00	2.79	
Quebec	0.00	0.00	3.51	3.51	0.00	0.00	0.00	3.16	
Wisconsin	0.00	0.00	11.80	11.80	0.00	0.00	0.00	1.80	
Total	9.20	161.00	90.57	497.77*	0.00	0.00	0.00	420.09*	

Principal Facilities									
Jurisdiction	Withdrawals				Diversions			Consumptive Use	
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		
Illinois	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Indiana	0.00	9.62	19.97	29.59	0.00	0.00	0.00	26.64	
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Minnesota	0.00	0.36	0.00	0.36	0.00	0.00	0.00	0.32	
New York	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Ohio	0.00	7.34	1.94	9.28	0.00	0.00	0.00	8.35	
Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pennsylvania	0.00	1.90	0.79	2.69	0.00	0.00	0.00	2.53	
Quebec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Wisconsin	0.00	0.00	5.90	5.90	0.00	0.00	0.00	3.80	
Total	0.00	19.22	28.60	47.82	0.00	0.00	0.00	41.64	

The total presented is larger than the sum of water use categories. This is due to the addition of state-wide data from Michigan. Michigan's withdrawals and consumptive uses for this category cannot presently be reported by individual sub-basin or water withdrawal type.

WATER-USE CATEGORY REPORT - Self-supply - livestock

DATE: 01/22/93

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

a) Water-Use by Basin - All Jurisdictions

All Facilities								
Basin	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	0.65	2.20	0.72	3.57	0.00	0.00	0.00	0.25
Lake Michigan	0.00	4.50	28.40	32.90	0.00	0.00	0.00	9.67
Lake Huron	0.00	0.00	16.81	16.81	0.00	0.00	0.00	13.45
Lake Erie	0.50	2.09	30.46	33.05	0.00	0.00	0.00	26.42
Lake Ontario	2.50	0.00	12.81	15.31	0.00	0.00	0.00	10.43
St.Lawrence River	1.00	0.00	34.82	35.82	0.00	0.00	0.00	28.65
Total	4.65	8.79	124.01	137.45	0.00	0.00	0.00	88.88

Principal Facilities									
Basin	Withdrawals				Diversions			Consumptive Use	
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		
Lake Superior	0.65	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00
Lake Michigan	0.00	1.50	1.41	2.91	0.00	0.00	0.00	0.00	2.33
Lake Huron	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Erie	0.00	0.49	0.00	0.49	0.00	0.00	0.00	0.00	0.39
Lake Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
St.Lawrence River	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.65	1.99	1.41	4.05	0.00	0.00	0.00	0.00	2.72

b) Water-Use by Jurisdiction - All Basins

All Facilities								
Jurisdiction	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Indiana	0.00	1.50	7.21	8.71	0.00	0.00	0.00	6.97
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	0.65	2.20	0.40	3.25	0.00	0.00	0.00	0.00
New York	4.00	0.00	6.80	10.80	0.00	0.00	0.00	6.80
Ohio	0.00	2.09	10.67	12.76	0.00	0.00	0.00	10.21
Ontario	0.00	0.00	52.66	52.66	0.00	0.00	0.00	42.13
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	0.00	0.00	23.27	23.27	0.00	0.00	0.00	18.62
Wisconsin	0.00	3.00	23.00	26.00	0.00	0.00	0.00	4.15
Total	4.65	8.79	124.01	137.45	0.00	0.00	0.00	88.88

Principal Facilities									
Jurisdiction	Withdrawals				Diversions			Consumptive Use	
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		
Illinois	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Indiana	0.00	1.50	1.41	2.91	0.00	0.00	0.00	0.00	2.33
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	0.65	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00
New York	0.00	0.49	0.00	0.49	0.00	0.00	0.00	0.00	0.39
Ohio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ontario	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wisconsin	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.65	1.99	1.41	4.05	0.00	0.00	0.00	0.00	2.72

WATER-USE CATEGORY REPORT - Self-supply - industrial (manufacturing and mining)

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

All Facilities								
Basin	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	294.92	97.51	2.36	394.79	0.00	0.00	0.00	67.32
Lake Michigan	1688.43	373.64	38.14	2100.21	0.00	4.83	4.83	162.35
Lake Huron	722.78	79.60	13.16	815.53	0.00	0.00	0.00	18.02
Lake Erie	641.78	199.16	46.81	887.75	0.00	0.00	0.00	66.59
Lake Ontario	981.05	112.78	43.28	1137.10	0.00	0.00	0.00	38.11
St. Lawrence River	200.59	155.47	10.34	366.39	0.00	0.00	0.00	26.82
Total	4529.54	1018.15	154.08	7019.77*	0.00	4.83	4.83	511.21*

Principal Facilities								
Basin	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	294.90	97.23	2.17	394.30	0.00	0.00	0.00	67.25
Lake Michigan	1688.43	343.62	37.42	2055.97	0.00	4.83	4.83	157.61
Lake Huron	722.75	78.78	12.47	814.00	0.00	0.00	0.00	17.81
Lake Erie	586.70	195.92	41.42	824.04	0.00	0.00	0.00	60.14
Lake Ontario	800.79	109.34	1.59	911.71	0.00	0.00	0.00	15.27
St. Lawrence River	132.51	154.28	4.54	291.33	0.00	0.00	0.00	19.28
Total	4226.07	979.17	99.61	5291.34	0.00	4.83	4.83	337.36

b) Water-Use by Jurisdiction - All Basins

All Facilities								
Jurisdiction	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	5.98	0.00	0.00	5.98	0.00	4.83	4.83	0.41
Indiana	1680.45	20.69	25.39	1726.53	0.00	0.00	0.00	103.60
Michigan	0.00	0.00	0.00	1318.00*	0.00	0.00	0.00	132.00*
Minnesota	122.92	86.60	0.11	209.63	0.00	0.00	0.00	60.13
New York	303.00	0.00	48.40	351.40	0.00	0.00	0.00	35.10
Ohio	51.32	158.25	31.33	240.90	0.00	0.00	0.00	24.09
Ontario	2316.13	260.55	33.58	2610.26	0.00	0.00	0.00	75.21
Pennsylvania	47.74	1.57	0.27	49.58	0.00	0.00	0.00	10.40
Quebec	0.00	125.48	0.00	125.48	0.00	0.00	0.00	11.07
Wisconsin	2.00	365.00	15.00	382.00	0.00	0.00	0.00	59.20
Total	4529.54	1018.15	154.08	7019.77*	0.00	4.83	4.83	511.21*

Principal Facilities								
Jurisdiction	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	5.98	0.00	0.00	5.98	0.00	4.83	4.83	0.41
Indiana	1680.45	20.66	24.46	1725.57	0.00	0.00	0.00	103.54
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	122.92	86.35	0.00	209.27	0.00	0.00	0.00	60.09
New York	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ohio	51.32	156.01	30.54	237.87	0.00	0.00	0.00	23.78
Ontario	2315.66	254.72	29.51	2599.88	0.00	0.00	0.00	73.62
Pennsylvania	47.74	1.48	0.10	49.32	0.00	0.00	0.00	10.37
Quebec	0.00	124.95	0.00	124.95	0.00	0.00	0.00	11.04
Wisconsin	2.00	335.00	1.50	338.50	0.00	0.00	0.00	54.50
Total	4226.07	979.17	86.11	5291.34	0.00	4.83	4.83	337.36

The total presented is larger than the sum of water use categories. This is due to the addition of state-wide data from Michigan. Michigan's withdrawals and consumptive uses for this category cannot presently be reported by individual sub-basin or water withdrawal type.

WATER-USE CATEGORY REPORT - Self-supply - thermoelectric power - fossil-fuel plants

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

All Facilities								
Basin	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	680.24	117.00	0.01	797.25	0.00	0.00	0.00	18.20
Lake Michigan	4625.08	133.44	4.37	4762.89	0.00	0.00	0.00	351.34
Lake Huron	865.71	0.03	0.00	865.74	0.00	0.00	0.00	9.56
Lake Erie	9948.26	86.84	0.27	10035.37	0.00	0.00	0.00	81.87
Lake Ontario	3851.56	0.00	0.00	3851.56	0.00	0.00	0.00	22.42
St.Lawrence River	39.10	7.93	0.00	47.02	0.00	0.00	0.00	0.00
Total	20009.94	345.24	4.65	20359.83	0.00	0.00	0.00	483.39

Principal Facilities								
Basin	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	419.47	116.91	0.00	536.38	0.00	0.00	0.00	14.81
Lake Michigan	3660.08	9.00	1.29	3670.37	0.00	0.00	0.00	337.01
Lake Huron	213.27	0.00	0.00	213.27	0.00	0.00	0.00	1.08
Lake Erie	5727.31	86.75	0.27	5814.33	0.00	0.00	0.00	26.00
Lake Ontario	3851.56	0.00	0.00	3851.56	0.00	0.00	0.00	14.42
St.Lawrence River	39.10	7.93	0.00	47.02	0.00	0.00	0.00	0.00
Total	13910.78	220.59	1.56	14132.93	0.00	0.00	0.00	393.32

b) Water-Use by Jurisdiction - All Basins

All Facilities								
Jurisdiction	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	673.28	0.00	0.00	673.28	0.00	0.00	0.00	0.00
Indiana	943.80	0.00	1.56	945.36	0.00	0.00	0.00	18.92
Michigan	6099.16	124.56	2.28	6226.00	0.00	0.00	0.00	80.94
Minnesota	38.34	117.00	0.01	155.35	0.00	0.00	0.00	3.11
New York	2735.00	0.00	0.00	2735.00	0.00	0.00	0.00	9.00
Ohio	2380.91	86.75	0.00	2467.66	0.00	0.00	0.00	0.22
Ontario	5002.35	0.00	0.00	5002.35	0.00	0.00	0.00	44.47
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	39.10	7.93	0.00	47.02	0.00	0.00	0.00	0.00
Wisconsin	2098.00	9.00	0.80	2107.80	0.00	0.00	0.00	326.73
Total	20009.94	345.24	4.65	20359.83	0.00	0.00	0.00	483.39

Principal Facilities								
Jurisdiction	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	673.28	0.00	0.00	673.28	0.00	0.00	0.00	0.00
Indiana	943.80	0.00	1.56	945.36	0.00	0.00	0.00	18.92
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	38.34	116.91	0.00	155.25	0.00	0.00	0.00	3.11
New York	2735.00	0.00	0.00	2735.00	0.00	0.00	0.00	0.00
Ohio	2380.91	86.75	0.00	2467.66	0.00	0.00	0.00	0.22
Ontario	5002.35	0.00	0.00	5002.35	0.00	0.00	0.00	44.47
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	39.10	7.93	0.00	47.02	0.00	0.00	0.00	0.00
Wisconsin	2098.00	9.00	0.00	2107.00	0.00	0.00	0.00	326.60
Total	13910.78	220.59	1.56	14132.93	0.00	0.00	0.00	393.32

WATER-USE CATEGORY REPORT - Self-supply - thermoelectric power - nuclear plants

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

All Facilities									
Basin	Withdrawals				Diversions			Consumptive Use	
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		
Lake Superior	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lake Michigan	5347.12	0.00	0.00	5347.12	0.00	0.00	0.00	42.70	
Lake Huron	6658.60	0.00	0.00	6658.60	0.00	0.00	0.00	59.93	
Lake Erie	145.35	0.00	0.00	145.35	0.00	0.00	0.00	24.95	
Lake Ontario	7085.08	0.00	0.00	7085.08	0.00	0.00	0.00	55.11	
St. Lawrence River	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	19236.15	0.00	0.00	19236.15	0.00	0.00	0.00	182.69	

Principal Facilities									
Basin	Withdrawals				Diversions			Consumptive Use	
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		
Lake Superior	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lake Michigan	3185.83	0.00	0.00	3185.83	0.00	0.00	0.00	14.60	
Lake Huron	6658.60	0.00	0.00	6658.60	0.00	0.00	0.00	59.93	
Lake Erie	145.35	0.00	0.00	145.35	0.00	0.00	0.00	24.95	
Lake Ontario	7085.08	0.00	0.00	7085.08	0.00	0.00	0.00	52.11	
St. Lawrence River	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	17074.86	0.00	0.00	17074.86	0.00	0.00	0.00	151.59	

b) Water-Use by Jurisdiction - All Basins

All Facilities									
Jurisdiction	Withdrawals				Diversions			Consumptive Use	
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		
Illinois	1726.03	0.00	0.00	1726.03	0.00	0.00	0.00	0.00	
Indiana	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Michigan	2161.29	0.00	0.00	2161.29	0.00	0.00	0.00	28.10	
Minnesota	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
New York	1295.00	0.00	0.00	1295.00	0.00	0.00	0.00	3.00	
Ohio	145.35	0.00	0.00	145.35	0.00	0.00	0.00	24.95	
Ontario	12448.68	0.00	0.00	12448.68	0.00	0.00	0.00	112.04	
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Quebec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Wisconsin	1459.80	0.00	0.00	1459.80	0.00	0.00	0.00	14.60	
Total	19236.15	0.00	0.00	19236.15	0.00	0.00	0.00	182.69	

Principal Facilities									
Jurisdiction	Withdrawals				Diversions			Consumptive Use	
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		
Illinois	1726.03	0.00	0.00	1726.03	0.00	0.00	0.00	0.00	
Indiana	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Minnesota	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
New York	1295.00	0.00	0.00	1295.00	0.00	0.00	0.00	0.00	
Ohio	145.35	0.00	0.00	145.35	0.00	0.00	0.00	24.95	
Ontario	12448.68	0.00	0.00	12448.68	0.00	0.00	0.00	112.04	
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Quebec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Wisconsin	1459.80	0.00	0.00	1459.80	0.00	0.00	0.00	14.60	
Total	17074.86	0.00	0.00	17074.86	0.00	0.00	0.00	151.59	

WATER-USE CATEGORY REPORT - Self-supply - hydroelectric power

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Basin	All Facilities							Consumptive Use
	Withdrawals				Diversions			
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	0.00	42152.38	0.00	42152.38	0.00	-2571.87	-2571.87	0.00
Lake Michigan	0.00	4347.01	0.00	4347.01	0.00	0.00	0.00	0.00
Lake Huron	23750.91	21106.25	0.00	44857.17	0.00	0.00	0.00	0.00
Lake Erie	3783.20	0.00	0.00	3783.20	3223.20	0.00	3223.20	0.00
Lake Ontario	190669.74	10346.77	0.00	201016.51	-3223.20	0.00	-3223.20	0.00
St.Lawrence River	383381.50	209102.04	0.00	592483.55	0.00	0.00	0.00	0.00
Total	601585.36	287054.46	0.00	888639.81	0.00	-2571.87	-2571.87	0.00

	Principal Facilities							Consumptive Use
	Withdrawals				Diversions			
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
	0.00	42152.38	0.00	42152.38	0.00	-2571.87	-2571.87	0.00
	0.00	4347.01	0.00	4347.01	0.00	0.00	0.00	0.00
	23750.91	21106.25	0.00	44857.17	0.00	0.00	0.00	0.00
	3783.20	0.00	0.00	3783.20	3223.20	0.00	3223.20	0.00
	94270.74	10346.77	0.00	104617.51	-3223.20	0.00	-3223.20	0.00
	325990.50	209102.04	0.00	535092.55	0.00	0.00	0.00	0.00
Total	447795.36	287054.46	0.00	734849.81	0.00	-2571.87	-2571.87	0.00

b) Water-Use by Jurisdiction - All Basins

Jurisdiction	All Facilities							Consumptive Use
	Withdrawals				Diversions			
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Indiana	0.00	37.27	0.00	37.27	0.00	0.00	0.00	0.00
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	0.00	4386.00	0.00	4386.00	0.00	0.00	0.00	0.00
New York	288697.00	0.00	0.00	288697.00	0.00	0.00	0.00	0.00
Ohio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ontario	149921.34	156907.63	0.00	306828.97	0.00	-2571.87	-2571.87	0.00
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	162967.02	121266.58	0.00	284233.60	0.00	0.00	0.00	0.00
Wisconsin	0.00	4456.97	0.00	4456.97	0.00	0.00	0.00	0.00
Total	601585.36	287054.46	0.00	888639.81	0.00	-2571.87	-2571.87	0.00

	Principal Facilities							Consumptive Use
	Withdrawals				Diversions			
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	37.27	0.00	37.27	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	4386.00	0.00	4386.00	0.00	0.00	0.00	0.00
	134907.00	0.00	0.00	134907.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	149921.34	156907.63	0.00	306828.97	0.00	-2571.87	-2571.87	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	162967.02	121266.58	0.00	284233.60	0.00	0.00	0.00	0.00
	0.00	4456.97	0.00	4456.97	0.00	0.00	0.00	0.00
Total	447795.36	287054.46	0.00	734849.81	0.00	-2571.87	-2571.87	0.00

WATER-USE CATEGORY REPORT - Other (navigation, sanitation, environmental)

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: Mgal(US)/d
YEAR OF DATA: 1991

Basin	All Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	0.00	0.00	0.20	0.20	0.00	0.00	0.00	0.00
Lake Michigan	305.42	0.10	0.13	305.65	0.00	305.42	305.42	0.02
Lake Huron	0.00	40.15	0.00	40.15	0.00	0.00	0.00	0.00
Lake Erie	573.25	2.95	3.00	579.20	572.06	-10.81	561.25	0.00
Lake Ontario	396.00	129.97	0.00	525.97	-176.06	0.00	-176.06	0.00
St.Lawrence River	168.00	28.00	0.00	196.00	168.00	0.00	168.00	0.00
Total	1442.67	201.18	3.33	1647.18	564.00	294.61	858.61	0.02

	Principal Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
	0.00	0.00	0.13	0.13	0.00	0.00	0.00	0.00
	305.42	0.06	0.04	305.52	0.00	305.42	305.42	0.01
	0.00	40.15	0.00	40.15	0.00	0.00	0.00	0.00
	573.25	2.95	2.72	578.92	572.06	-10.81	561.25	0.00
	396.00	129.97	0.00	525.97	-572.06	0.00	-572.06	0.00
	168.00	28.00	0.00	196.00	168.00	0.00	168.00	0.00
Total	1442.67	201.14	2.89	1646.70	168.00	294.61	462.61	0.01

b) Water-Use by Jurisdiction - All Basins

Jurisdiction	All Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	305.42	0.00	0.00	305.42	0.00	305.42	305.42	0.00
Indiana	0.00	0.10	0.13	0.23	0.00	0.00	0.00	0.02
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	0.00	0.00	0.20	0.20	0.00	0.00	0.00	0.00
New York	564.00	0.00	0.00	564.00	564.00	0.00	564.00	0.00
Ohio	1.19	2.95	3.00	7.14	0.00	-10.81	-10.81	0.00
Ontario	572.06	198.13	0.00	770.19	0.00	0.00	0.00	0.00
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wisconsin	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1442.67	201.18	3.33	1647.18	564.00	294.61	858.61	0.02

	Principal Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
	305.42	0.00	0.00	305.42	0.00	305.42	305.42	0.00
	0.00	0.06	0.04	0.10	0.00	0.00	0.00	0.01
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.13	0.13	0.00	0.00	0.00	0.00
	564.00	0.00	0.00	564.00	564.00	0.00	564.00	0.00
	1.19	2.95	2.72	6.86	0.00	-10.81	-10.81	0.00
	572.06	198.13	0.00	770.19	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1442.67	201.14	2.89	1646.70	168.00	294.61	462.61	0.01

Appendix A-2
(million litres per day)

● **1991 GREAT LAKES BASIN SUMMARY REPORT**

● **1991 JURISDICTION REPORTS**

1. Illinois
2. Indiana
3. Michigan
4. Minnesota
5. New York
6. Ohio
7. Ontario
8. Quebec
9. Pennsylvania
10. Wisconsin

● **1991 BASIN SUMMARY REPORTS**

1. Lake Superior
2. Lake Michigan
3. Lake Huron
4. Lake Erie
5. Lake Ontario
6. St. Lawrence River

● **1991 WATER USE CATEGORY REPORTS**

1. Public Supply
3. Self Supply - Domestic
4. Self Supply - Irrigation
5. Self Supply - Livestock
6. Self Supply - Industrial
7. Self Supply - Thermoelectric Power - Fossil Fuel
8. Self Supply - Thermoelectric Power - Nuclear
9. Self Supply - Hydroelectric Power
10. Other

Water-Use by Category - All Basins, All Jurisdictions

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Category	All Facilities								Principal Facilities									
	Withdrawals				Diversions				Consumptive Use	Withdrawals				Diversions				Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	GLSW		OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL			
1	16495.55	3618.95	1994.49	26742.32*	0.00	4353.02	4353.02	2757.58	15139.89	2877.98	1726.93	19744.80	0.00	4353.02	4353.02	2051.88		
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3	729.86	595.59	1839.40	3164.86	0.00	20.37	20.37	359.23	116.63	118.45	204.10	439.17	0.00	20.37	20.37	39.05		
4	34.83	609.45	342.83	1884.25*	0.00	0.00	0.00	1590.22*	0.00	72.76	108.26	181.02	0.00	0.00	0.00	157.62		
5	17.60	33.27	469.44	520.32	0.00	0.00	0.00	336.44	2.46	7.53	5.34	15.33	0.00	0.00	0.00	10.30		
6	17146.14	3854.09	583.24	26572.62*	0.00	18.28	18.28	1935.13*	15997.36	3706.55	325.96	20029.86	0.00	18.28	18.28	1277.03		
7	75745.61	1306.85	17.60	77070.06	0.00	0.00	0.00	1829.80	52657.87	835.00	5.91	53498.77	0.00	0.00	0.00	1487.93		
8	72816.56	0.00	0.00	72816.56	0.00	0.00	0.00	691.55	64635.22	0.00	0.00	64635.22	0.00	0.00	0.00	573.82		
9	2277241.64	1086617.01	0.00	3363858.64	0.00	-9735.55	-9735.55	0.00	1695085.40	1086617.01	0.00	2781702.41	0.00	-9735.55	-9735.55	0.00		
10	5461.08	761.55	12.61	6235.24	2134.96	1115.22	3250.18	0.08	5461.08	761.39	10.94	6233.42	635.95	1115.22	1751.16	0.04		
Total	2465688.86	1097396.76	5259.61	3578864.87*	2134.96	-4228.67	-2093.71	9500.02*	1849095.91	1094996.66	2387.43	2946480.00	635.95	-4228.67	-3592.72	5597.97		

Water-Use by Basin - All Categories, All Jurisdictions

Basin	All Facilities								Principal Facilities									
	Withdrawals				Diversions				Consumptive Use	Withdrawals				Diversions				Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	GLSW		OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL			
Lake Superior	3907.79	160409.61	44.09	164361.49	0.00	-9735.55	-9735.55	376.21	2919.07	160398.07	32.22	163349.35	0.00	-9735.55	-9735.55	359.66		
Lake Michigan	51043.09	18634.53	1578.70	71256.32	0.00	5546.97	5546.97	2656.86	39208.84	18037.23	1238.96	58485.03	0.00	5546.97	5546.97	2433.52		
Lake Huron	121370.67	80570.56	428.93	202370.17	168.34	0.00	168.34	564.10	118999.50	80470.33	201.65	199571.48	168.34	0.00	168.34	376.76		
Lake Erie	60140.61	2301.71	1510.64	63952.95	14198.25	-40.09	14158.16	1861.59	43303.05	1705.45	628.15	45636.65	14198.25	-40.09	14158.16	968.66		
Lake Ontario	771913.22	41193.74	924.07	814031.03	-12867.57	0.00	-12867.57	1241.39	405540.36	40208.93	69.37	445818.66	-14366.59	0.00	-14366.59	753.31		
St.Lawrence River	1457313.48	794286.62	773.19	2252373.29	635.95	0.00	635.95	982.89	1239225.09	794176.65	217.09	2033618.83	635.95	0.00	635.95	706.68		
Total	2465688.86	1097396.76	5259.61	3578864.87*	2134.96	-4228.67	-2093.71	9500.02*	1849095.91	1094996.66	2387.43	2946480.00	635.95	-4228.67	-3592.72	5597.97		

Water-Use by Jurisdiction - All Categories, All Basins

Jurisdiction	All Facilities								Principal Facilities									
	Withdrawals				Diversions				Consumptive Use	Withdrawals				Diversions				Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	GLSW		OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL			
Illinois	14732.65	0.08	0.42	14733.14	0.00	5554.69	5554.69	1.55	14732.65	0.00	0.00	14732.65	0.00	5554.69	5554.69	1.55		
Indiana	10273.76	502.89	555.77	11332.42	0.00	-11.51	-11.51	733.04	10273.76	501.41	427.03	11202.20	0.00	-11.51	-11.51	697.31		
Michigan	31269.08	471.51	8.63	42268.85*	0.00	0.00	0.00	2229.73*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Minnesota	745.27	17397.04	20.33	18162.64	0.00	0.00	0.00	274.52	745.16	17386.71	16.85	18148.71	0.00	0.00	0.00	273.53		
New York	1113384.49	1177.26	1070.13	1115631.88	2134.96	0.00	2134.96	607.82	528066.69	0.00	0.00	528066.69	635.95	0.00	635.95	0.00		
Ohio	11554.32	1374.74	547.67	13476.73	0.00	-40.09	-40.09	656.61	11553.18	1346.28	266.23	13165.69	0.00	-40.09	-40.09	565.01		
Ontario	648123.76	596993.65	1575.03	1246692.44	0.00	-9735.55	-9735.55	2407.45	648120.07	596425.03	638.17	1243183.27	0.00	-9735.55	-9735.55	1605.46		
Pennsylvania	342.35	18.25	21.35	381.95	0.00	0.00	0.00	68.21	342.35	16.81	10.64	369.80	0.00	0.00	0.00	66.13		
Quebec	620834.00	461072.00	372.40	1082278.40	0.00	0.00	0.00	682.35	620834.00	461056.00	184.00	1082074.00	0.00	0.00	0.00	589.80		
Wisconsin	14429.18	18389.35	1087.89	33906.41	0.00	3.79	3.79	1838.72	14428.04	18264.43	844.52	33536.99	0.00	3.79	3.79	1799.80		
Total	2465688.86	1097396.76	5259.61	3578864.87*	2134.96	-4228.67	-2093.71	9500.02*	1849095.91	1094996.66	2387.43	2946480.00	-4228.67	-3592.72	5703.23	5597.97		

The total presented is larger than the sum of water use categories. This is due to the addition of state-wide data from Michigan. Michigan's withdrawals and consumptive uses for this category cannot presently be reported by individual sub-basin or water withdrawal type.

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE MICHIGAN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	4359.91	4359.91	0.00	4359.91	4359.91	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	112.12	20.37	0.00	112.12	20.37	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	22.64	18.28	1.55	22.64	18.28	1.55
7	2548.63	0.00	0.00	2548.63	0.00	0.00
8	6533.71	0.00	0.00	6533.71	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	1156.14	1156.14	0.00	1156.14	1156.14	0.00
Total	14733.14	5554.69	1.55	14733.14	5554.69	1.55

b) Withdrawals by Source - All facilities

Water- Use Categ.	LAKE MICHIGAN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	4359.91	0.00	0.00	4359.91	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	111.63	0.08	0.42	111.63	0.08	0.42
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	22.64	0.00	0.00	22.64	0.00	0.00
7	2548.63	0.00	0.00	2548.63	0.00	0.00
8	6533.71	0.00	0.00	6533.71	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	1156.14	0.00	0.00	1156.14	0.00	0.00
Total	14732.65	0.08	0.42	14732.65	0.08	0.42

c) Diversions by Type - All facilities

Water- Use Categ.	LAKE MICHIGAN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	4359.91	0.00	4359.91
2	0.00	0.00	0.00	0.00
3	0.00	20.37	0.00	20.37
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	18.28	0.00	18.28
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	1156.14	0.00	1156.14
Total	0.00	5554.69	0.00	5554.69

Level of Accuracy of Withdrawal Data: 100% Measured
Level of Aggregation of Withdrawal Data Source: 100% Site-specific

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE MICHIGAN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	4359.91	4359.91	0.00	4359.91	4359.91	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	111.63	20.37	0.00	111.63	20.37	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	22.64	18.28	1.55	22.64	18.28	1.55
7	2548.63	0.00	0.00	2548.63	0.00	0.00
8	6533.71	0.00	0.00	6533.71	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	1156.14	1156.14	0.00	1156.14	1156.14	0.00
Total	14732.65	5554.69	1.55	14732.65	5554.69	1.55

b) Withdrawals by Source - Principal facilities

Water- Use Categ.	LAKE MICHIGAN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	4359.91	0.00	0.00	4359.91	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	111.63	0.00	0.00	111.63	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	22.64	0.00	0.00	22.64	0.00	0.00
7	2548.63	0.00	0.00	2548.63	0.00	0.00
8	6533.71	0.00	0.00	6533.71	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	1156.14	0.00	0.00	1156.14	0.00	0.00
Total	14732.65	0.00	0.00	14732.65	0.00	0.00

c) Diversions by Type - Principal facilities

Water- Use Categ.	LAKE MICHIGAN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	4359.91	0.00	4359.91
2	0.00	0.00	0.00	0.00
3	0.00	20.37	0.00	20.37
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	18.28	0.00	18.28
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	1156.14	0.00	1156.14
Total	0.00	5554.69	0.00	5554.69

Level of Accuracy of Withdrawal Data: 100% Measured
Level of Aggregation of Withdrawal Data Source: 100% Site-specific

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE MICHIGAN			LAKE ERIE			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	555.66	-11.51	83.35	143.73	0.00	21.54	699.39	-11.51	104.89
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	196.42	0.00	29.45	32.44	0.00	4.88	228.87	0.00	34.33
4	108.07	0.00	97.28	7.00	0.00	6.28	115.08	0.00	103.57
5	26.12	0.00	20.90	6.85	0.00	5.49	32.97	0.00	26.38
6	6481.47	0.00	388.91	54.13	0.00	3.26	6535.60	0.00	392.17
7	3577.54	0.00	71.58	1.02	0.00	0.04	3578.56	0.00	71.62
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	141.08	0.00	0.00	0.00	0.00	0.00	141.08	0.00	0.00
10	0.87	0.00	0.08	0.00	0.00	0.00	0.87	0.00	0.08
Total	11087.24	-11.51	691.55	245.18	0.00	41.49	11332.42	-11.51	733.04

b) Withdrawals by Source - All facilities

Water-Use Categ.	LAKE MICHIGAN			LAKE ERIE			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	339.93	0.00	215.73	0.00	123.25	20.48	339.93	123.25	236.21
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	116.40	80.02	0.00	0.19	32.25	0.00	116.59	112.27
4	0.00	35.13	72.94	0.00	2.46	4.54	0.00	37.59	77.49
5	0.00	5.68	20.44	0.00	0.00	6.85	0.00	5.68	27.29
6	6361.17	32.71	87.59	0.00	45.61	8.52	6361.17	78.32	96.11
7	3572.66	0.00	4.88	0.00	0.00	1.02	3572.66	0.00	5.91
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	141.08	0.00	0.00	0.00	0.00	0.00	141.08	0.00
10	0.00	0.38	0.49	0.00	0.00	0.00	0.00	0.38	0.49
Total	10273.76	331.37	482.11	0.00	171.52	73.66	10273.76	502.89	555.77

c) Diversions by Type - All facilities

Water-Use Categ.	LAKE MICHIGAN		LAKE ERIE		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	-11.51	0.00	0.00	0.00	-11.51
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	-11.51	0.00	0.00	0.00	-11.51

Level of Accuracy of Withdrawal Data: 6.2% Measured 4.6% Partially Measured 89.2% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 97.7% Site-specific 2.3% Aggregated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE MICHIGAN			LAKE ERIE			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	553.20	-11.51	82.98	142.97	0.00	21.43	696.17	-11.51	104.40
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	130.33	0.00	19.53	0.68	0.00	0.11	131.01	0.00	19.65
4	106.10	0.00	95.51	5.91	0.00	5.34	112.01	0.00	100.84
5	11.02	0.00	8.82	0.00	0.00	0.00	11.02	0.00	8.82
6	6478.67	0.00	388.76	53.30	0.00	3.18	6531.97	0.00	391.94
7	3577.54	0.00	71.58	1.02	0.00	0.04	3578.56	0.00	71.62
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	141.08	0.00	0.00	0.00	0.00	0.00	141.08	0.00	0.00
10	0.38	0.00	0.04	0.00	0.00	0.00	0.38	0.00	0.04
Total	10998.32	-11.51	667.21	203.88	0.00	30.09	11202.20	-11.51	697.31

b) Withdrawals by Source - Principal facilities

Water-Use Categ.	LAKE MICHIGAN			LAKE ERIE			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	339.93	0.00	213.27	0.00	123.25	19.72	339.93	123.25	232.99
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	116.36	13.97	0.00	0.19	0.49	0.00	116.55	14.46
4	0.00	34.14	71.96	0.00	2.27	3.63	0.00	36.42	75.59
5	0.00	5.68	5.34	0.00	0.00	0.00	0.00	5.68	5.34
6	6361.17	32.63	84.87	0.00	45.58	7.72	6361.17	78.21	92.59
7	3572.66	0.00	4.88	0.00	0.00	1.02	3572.66	0.00	5.91
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	141.08	0.00	0.00	0.00	0.00	0.00	141.08	0.00
10	0.00	0.23	0.15	0.00	0.00	0.00	0.00	0.23	0.15
Total	10273.76	330.12	394.44	0.00	171.29	32.59	10273.76	501.41	427.03

c) Diversions by Type - Principal facilities

Water-Use Categ.	LAKE MICHIGAN		LAKE ERIE		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	-11.51	0.00	0.00	0.00	-11.51
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	-11.51	0.00	0.00	0.00	-11.51

Level of Accuracy of Withdrawal Data: 6.2% Measured 4.6% Partially Measured 89.2% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 97.7% Site-specific 2.3% Aggregated

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			LAKE HURON			LAKE ERIE			TOTAL			
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	
1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	4633.33*	0.00	465.59*	
2	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	NR	0.00	NR
3	NR	0.00	NR	0.00	0.00	0.00	0.00	0.00	0.00	NR	0.00	NR	NR	0.00	NR	
4	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	897.14*	0.00	851.71*	
5	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	
6	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	4989.16*	0.00	499.67*	
7	987.12	0.00	12.83	4132.59	0.00	53.75	2469.86	0.00	32.10	15978.31	0.00	207.70	23567.88	0.00	306.39	
8	0.00	0.00	0.00	8181.34	0.00	106.37	0.00	0.00	0.00	0.00	0.00	0.00	8181.34	0.00	106.37	
9	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	
10	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	
Total	987.12	0.00	12.83	12313.93	0.00	160.12	2469.86	0.00	32.10	15978.31	0.00	207.70	42268.85*	0.00	2229.73*	

b) Withdrawals by Source - All facilities

Water-Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			LAKE HURON			LAKE ERIE			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
6	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
7	987.12	0.00	0.00	3652.91	471.05	8.63	2469.74	0.11	0.00	15977.97	0.34	0.00	23087.74	471.51	8.63
8	0.00	0.00	0.00	8181.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8181.34	0.00	0.00
9	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Total	987.12	0.00	0.00	11834.25	471.05	8.63	2469.74	0.11	0.00	15977.97	0.34	0.00	31269.08	471.51	8.63

c) Diversions by Type - All facilities

Water-Use Categ.	LAKE SUPERIOR		LAKE MICHIGAN		LAKE HURON		LAKE ERIE		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

*This total figure cannot presently be reported by individual sub-basin or withdrawal type.
NR=not reported

Level of Accuracy of Withdrawal Data: 11% Measured 87% Partially Measured 2% Calculated or Estimated
Level of Aggregation of Withdrawal Data Source: 98% Site-specific 2% Aggregated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			LAKE HURON			LAKE ERIE			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
3	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
4	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
5	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
6	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
10	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR	NR	0.00	NR
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

b) Withdrawals by Source - Principal facilities

Water-Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			LAKE HURON			LAKE ERIE			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
6	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
10	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

c) Diversions by Type - Principal facilities

Water-Use Categ.	LAKE SUPERIOR		LAKE MICHIGAN		LAKE HURON		LAKE ERIE		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	NR	0.00	NR	0.00	NR	0.00	NR	0.00	NR	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NR=not reported

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE SUPERIOR			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	156.15	0.00	32.82	156.15	0.00	32.82
2	0.00	0.00	0.00	0.00	0.00	0.00
3	7.08	0.00	0.57	7.08	0.00	0.57
4	2.01	0.00	1.74	2.01	0.00	1.74
5	12.30	0.00	0.00	12.30	0.00	0.00
6	793.53	0.00	227.62	793.53	0.00	227.62
7	588.06	0.00	11.77	588.06	0.00	11.77
8	0.00	0.00	0.00	0.00	0.00	0.00
9	16602.75	0.00	0.00	16602.75	0.00	0.00
10	0.76	0.00	0.00	0.76	0.00	0.00
Total	18162.64	0.00	274.52	18162.64	0.00	274.52

b) Withdrawals by Source - All facilities

Water- Use Categ.	LAKE SUPERIOR			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	127.38	11.28	17.49	127.38	11.28	17.49
2	0.00	0.00	0.00	0.00	0.00	0.00
3	5.00	1.97	0.11	5.00	1.97	0.11
4	0.00	2.01	0.00	0.00	2.01	0.00
5	2.46	8.33	1.51	2.46	8.33	1.51
6	465.30	327.82	0.42	465.30	327.82	0.42
7	145.13	442.89	0.04	145.13	442.89	0.04
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	16602.75	0.00	0.00	16602.75	0.00
10	0.00	0.00	0.76	0.00	0.00	0.76
Total	745.27	17397.04	20.33	745.27	17397.04	20.33

c) Diversions by Type - All facilities

Water- Use Categ.	LAKE SUPERIOR		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00

Level of Accuracy of Withdrawal Data: 1.6% Measured 1.9% Partially Measured 96.5% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 99.9% Site-specific .1% Aggregated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE SUPERIOR			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	154.90	0.00	32.52	154.90	0.00	32.52
2	0.00	0.00	0.00	0.00	0.00	0.00
3	6.89	0.00	0.57	6.89	0.00	.57
4	1.36	0.00	1.21	1.36	0.00	1.21
5	2.46	0.00	0.00	2.46	0.00	0.00
6	792.17	0.00	227.46	792.17	0.00	227.46
7	587.68	0.00	11.77	587.68	0.00	11.77
8	0.00	0.00	0.00	0.00	0.00	0.00
9	16602.75	0.00	0.00	16602.75	0.00	0.00
10	0.49	0.00	0.00	0.49	0.00	0.00
Total	18148.71	0.00	273.53	18148.71	0.00	273.53

b) Withdrawals by Source - Principal facilities

Water- Use Categ.	LAKE SUPERIOR			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	127.27	11.28	16.35	127.27	11.28	16.35
2	0.00	0.00	0.00	0.00	0.00	0.00
3	5.00	1.89	0.00	5.00	1.89	0.00
4	0.00	1.36	0.00	0.00	1.36	0.00
5	2.46	0.00	0.00	2.46	0.00	0.00
6	465.30	326.87	0.00	465.30	326.87	0.00
7	145.13	442.55	0.00	145.13	442.55	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	16602.75	0.00	0.00	16602.75	0.00
10	0.00	0.00	0.49	0.00	0.00	0.49
Total	745.16	17386.71	16.85	745.16	17386.71	16.85

c) Diversions by Type - Principal facilities

Water- Use Categ.	LAKE SUPERIOR		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00

Level of Accuracy of Withdrawal Data:

Level of Aggregation of Withdrawal Data Source:

1.6% Measured

99.9% Site-specific

1.9% Partially Measured

.1% Aggregated

96.5% Calculated or Estimated

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	779.79	0.00	77.98	1006.92	0.00	100.69	476.96	0.00	47.70	2263.67	0.00	226.37
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	295.26	0.00	29.53	1097.77	0.00	109.78	340.69	0.00	34.07	1733.71	0.00	173.37
4	6.06	0.00	0.61	30.28	0.00	3.03	4.16	0.00	0.42	40.50	0.00	4.05
5	5.30	0.00	4.16	24.23	0.00	12.49	11.36	0.00	9.08	40.88	0.00	25.74
6	221.07	0.00	21.96	832.79	0.00	83.28	276.33	0.00	27.63	1330.19	0.00	132.87
7	1828.35	0.00	3.79	8524.71	0.00	30.28	0.00	0.00	0.00	10353.06	0.00	34.07
8	0.00	0.00	0.00	4902.09	0.00	11.36	0.00	0.00	0.00	4902.09	0.00	11.36
9	2119.82	0.00	0.00	552016.90	0.00	0.00	538696.09	0.00	0.00	1092832.8	0.00	0.00
10	0.00	0.00	0.00	1499.02	1499.02	0.00	635.95	635.95	0.00	2134.96	2134.96	0.00
Total	5255.65	0.00	138.02	569934.70	1499.02	350.91	540441.54	635.95	118.90	1115631.9	2134.96	607.82

b) Withdrawals by Source - All facilities

Water-Use Categ.	LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	605.66	174.13	0.00	363.40	526.17	117.35	382.33	0.00	94.63	1351.39	700.30	211.98
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	37.85	37.85	219.55	382.33	363.40	352.04	193.06	75.71	71.92	613.23	476.96	643.52
4	4.54	0.00	1.51	26.50	0.00	3.79	3.79	0.00	0.38	34.83	0.00	5.68
5	1.89	0.00	3.41	9.46	0.00	14.76	3.79	0.00	7.57	15.14	0.00	25.74
6	208.20	0.00	12.87	681.37	0.00	151.42	257.41	0.00	18.93	1146.98	0.00	183.21
7	1828.35	0.00	0.00	8524.71	0.00	0.00	0.00	0.00	0.00	10353.06	0.00	0.00
8	0.00	0.00	0.00	4902.09	0.00	0.00	0.00	0.00	0.00	4902.09	0.00	0.00
9	2119.82	0.00	0.00	552016.90	0.00	0.00	538696.09	0.00	0.00	1092832.8	0.00	0.00
10	0.00	0.00	0.00	1499.02	0.00	0.00	635.95	0.00	0.00	2134.96	0.00	0.00
Total	4806.32	211.98	237.34	568405.78	889.57	639.35	540172.40	75.71	193.43	1113384.5	1177.26	1070.13

c) Diversions by Type - All facilities

Water-Use Categ.	LAKE ERIE		LAKE ONTARIO		ST. LAWRENCE RIVER		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	1499.02	0.00	635.95	0.00	2134.96	0.00
Total	0.00	0.00	1499.02	0.00	635.95	0.00	2134.96	0.00

Level of Accuracy of Withdrawal Data: 1.6% Measured 48.4% Partially Measured 50% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 49.8% Site-specific 50.2% Aggregated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	1828.35	0.00	0.00	8524.71	0.00	0.00	0.00	0.00	0.00	10353.06	0.00	0.00
8	0.00	0.00	0.00	4902.09	0.00	0.00	0.00	0.00	0.00	4902.09	0.00	0.00
9	2119.82	0.00	0.00	187108.40	0.00	0.00	321448.36	0.00	0.00	510676.58	0.00	0.00
10	0.00	0.00	0.00	1499.02	0.00	0.00	635.95	635.95	0.00	2134.96	635.95	0.00
Total	3948.17	0.00	0.00	202034.22	0.00	0.00	322084.31	635.95	0.00	528066.69	635.95	0.00

b) Withdrawals by Source - Principal facilities

Water-Use Categ.	LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	1828.35	0.00	0.00	8524.71	0.00	0.00	0.00	0.00	0.00	10353.06	0.00	0.00
8	0.00	0.00	0.00	4902.09	0.00	0.00	0.00	0.00	0.00	4902.09	0.00	0.00
9	2119.82	0.00	0.00	187108.40	0.00	0.00	321448.36	0.00	0.00	510676.58	0.00	0.00
10	0.00	0.00	0.00	1499.02	0.00	0.00	635.95	0.00	0.00	2134.96	0.00	0.00
Total	3948.17	0.00	0.00	202034.22	0.00	0.00	322084.31	0.00	0.00	528066.69	0.00	0.00

c) Diversions by Type - Principal facilities

Water-Use Categ.	LAKE ERIE		LAKE ONTARIO		ST. LAWRENCE RIVER		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	635.95	0.00	635.95	0.00
Total	0.00	0.00	0.00	0.00	635.95	0.00	635.95	0.00

Level of Accuracy of Withdrawal Data: 1.6% Measured 48.4% Partially Measured 50% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 49.8% Site-specific 50.2% Aggregated

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE ERIE			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	2314.24	0.83	347.08	2314.24	0.83	347.08
2	0.00	0.00	0.00	0.00	0.00	0.00
3	228.22	0.00	34.22	228.22	0.00	34.22
4	55.76	0.00	50.19	55.76	0.00	50.19
5	48.30	0.00	38.65	48.30	0.00	38.65
6	911.90	0.00	91.19	911.90	0.00	91.19
7	9341.07	0.00	0.83	9341.07	0.00	0.83
8	550.21	0.00	94.45	550.21	0.00	94.45
9	0.00	0.00	0.00	0.00	0.00	0.00
10	27.03	-40.92	0.00	27.03	-40.92	0.00
Total	13476.73	-40.09	656.61	13476.73	-40.09	656.61

b) Withdrawals by Source - All facilities

Water- Use Categ.	LAKE ERIE			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	1792.65	388.57	133.02	1792.65	388.57	133.02
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	228.22	0.00	0.00	228.22
4	0.00	39.67	16.09	0.00	39.67	16.09
5	0.00	7.91	40.39	0.00	7.91	40.39
6	194.27	599.04	118.60	194.27	599.04	118.60
7	9012.69	328.38	0.00	9012.69	328.38	0.00
8	550.21	0.00	0.00	550.21	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	4.50	11.17	11.36	4.50	11.17	11.36
Total	11554.32	1374.74	547.67	11554.32	1374.74	547.67

c) Diversions by Type - All facilities

Water- Use Categ.	LAKE ERIE		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.83	0.00	0.83
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	-40.92	0.00	-40.92
Total	0.00	-40.09	0.00	-40.09

Level of Accuracy of Withdrawal Data: 97.3% Partially Measured 2.7% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 100% Site-specific

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE ERIE			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	2305.38	0.83	345.80	2305.38	0.83	345.80
2	0.00	0.00	0.00	0.00	0.00	0.00
3	5.64	0.00	0.83	5.64	0.00	0.83
4	35.13	0.00	31.61	35.13	0.00	31.61
5	1.85	0.00	1.48	1.85	0.00	1.48
6	900.43	0.00	90.02	900.43	0.00	90.02
7	9341.07	0.00	0.83	9341.07	0.00	0.83
8	550.21	0.00	94.45	550.21	0.00	94.45
9	0.00	0.00	0.00	0.00	0.00	0.00
10	25.97	-40.92	0.00	25.97	-40.92	0.00
Total	13165.69	-40.09	565.01	13165.69	-40.09	565.01

b) Withdrawals by Source - Principal facilities

Water- Use Categ.	LAKE ERIE			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	1791.51	386.53	127.34	1791.51	386.53	127.34
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	5.64	0.00	0.00	5.64
4	0.00	27.78	7.34	0.00	27.78	7.34
5	0.00	1.85	0.00	0.00	1.85	0.00
6	194.27	590.56	115.61	194.27	590.56	115.61
7	9012.69	328.38	0.00	9012.69	328.38	0.00
8	550.21	0.00	0.00	550.21	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	4.50	11.17	10.30	4.50	11.17	10.30
Total	11553.18	1346.28	266.23	11553.18	1346.28	266.23

c) Diversions by Type - Principal facilities

Water- Use Categ.	LAKE ERIE		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.83	0.00	0.83
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	-40.92	0.00	-40.92
Total	0.00	-40.09	0.00	-40.09

Level of Accuracy of Withdrawal Data: 97.3% Partially Measured 2.7% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 100% Site-specific

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE SUPERIOR			LAKE HURON			LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	79.96	0.00	12.00	568.72	168.34	85.32	770.01	-168.34	115.51	2971.24	0.00	445.69	574.97	0.00	86.25	4964.90	0.00	744.77
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	6.34	0.00	0.95	114.21	0.00	19.12	113.38	0.00	17.01	135.02	0.00	20.25	127.43	0.00	19.12	496.38	0.00	76.45
4	0.71	0.00	0.55	99.35	0.00	77.50	476.33	0.00	371.54	108.51	0.00	84.64	19.73	0.00	15.38	704.63	0.00	549.61
5	1.20	0.00	0.96	63.65	0.00	50.92	64.65	0.00	51.72	33.72	0.00	26.98	36.12	0.00	28.89	199.34	0.00	159.47
6	700.90	0.00	27.20	3087.10	0.00	68.20	1985.70	0.00	96.30	3471.60	0.00	61.00	635.60	0.00	32.00	9880.90	0.00	284.70
7	1234.54	0.00	12.11	807.30	0.00	4.09	10839.12	0.00	97.55	6054.97	0.00	54.59	0.00	0.00	0.00	18935.93	0.00	168.34
8	0.00	0.00	0.00	25205.48	0.00	226.85	0.00	0.00	0.00	21917.81	0.00	197.26	0.00	0.00	0.00	47123.29	0.00	424.11
9	142403.67	-9735.55	0.00	169802.50	0.00	0.00	12201.11	12201.11	0.00	208910.81	-12201.11	0.00	628153.50	0.00	0.00	1161471.6	-9735.55	0.00
10	0.00	0.00	0.00	152.00	0.00	0.00	2165.48	2165.48	0.00	492.00	-2165.48	0.00	106.00	0.00	0.00	2915.48	0.00	0.00
Total	144427.32	-9735.55	53.77	199900.31	168.34	532.00	28615.78	14198.25	749.63	244095.68	-14366.59	890.41	629653.35	0.00	181.64	1246692.4	-9735.55	2407.45

b) Withdrawals by Source - All facilities

Water-Use Categ.	LAKE SUPERIOR			LAKE HURON			LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	63.02	9.77	7.17	245.35	145.15	178.22	407.74	71.48	290.79	2758.25	138.16	74.83	144.38	412.01	18.58	3618.74	776.57	569.59
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	6.34	0.00	0.00	114.21	0.00	0.00	113.38	0.00	0.00	135.02	0.00	0.00	127.43	0.00	0.00	496.38
4	0.00	0.50	0.21	0.00	76.30	23.05	0.00	350.10	126.23	0.00	80.41	28.10	0.00	14.70	5.03	0.00	522.01	182.62
5	0.00	0.00	1.20	0.00	0.00	63.65	0.00	0.00	64.65	0.00	0.00	33.72	0.00	0.00	36.12	0.00	0.00	199.34
6	651.10	41.30	8.50	2736.00	301.30	49.80	1846.20	103.30	36.20	3032.30	426.90	12.40	501.90	113.50	20.20	8767.50	986.30	127.10
7	1234.54	0.00	0.00	807.30	0.00	0.00	10839.12	0.00	0.00	6054.97	0.00	0.00	0.00	0.00	0.00	18935.93	0.00	0.00
8	0.00	0.00	0.00	25205.48	0.00	0.00	0.00	0.00	0.00	21917.81	0.00	0.00	0.00	0.00	0.00	47123.29	0.00	0.00
9	0.00	142403.67	0.00	89906.80	79895.70	0.00	12201.11	0.00	0.00	169744.11	39166.70	0.00	295660.80	332492.70	0.00	567512.82	593958.77	0.00
10	0.00	0.00	0.00	0.00	152.00	0.00	2165.48	0.00	0.00	492.00	0.00	0.00	106.00	0.00	0.00	2165.48	750.00	0.00
Total	1948.66	142455.24	23.42	118900.93	80570.45	428.93	27459.65	524.88	631.25	203507.44	40304.17	284.07	296307.08	333138.91	207.36	648123.76	596993.65	1575.03

c) Diversions by Type - All facilities

Water-Use Categ.	LAKE SUPERIOR		LAKE HURON		LAKE ERIE		LAKE ONTARIO		ST. LAWRENCE RIVER		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	168.34	0.00	-168.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	-9735.55	0.00	0.00	12201.11	0.00	-12201.11	0.00	0.00	0.00	0.00	-9735.55
10	0.00	0.00	0.00	0.00	2165.48	0.00	-2165.48	0.00	0.00	0.00	0.00	0.00
Total	0.00	-9735.55	168.34	0.00	14198.25	0.00	-14366.59	0.00	0.00	0.00	0.00	-9735.55

Level of Accuracy of Withdrawal Data: 6.9% Measured 93% Partially Measured .1% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 99.9% Site-specific .1% Aggregated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE SUPERIOR			LAKE HURON			LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	79.10	0.00	11.87	522.90	168.34	78.42	764.51	-168.34	114.68	2957.65	0.00	443.66	571.22	0.00	85.68	4895.38	0.00	734.31
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	700.40	0.00	27.10	3081.30	0.00	67.40	1978.90	0.00	95.20	3451.20	0.00	57.80	629.80	0.00	31.20	9841.60	0.00	278.70
7	1234.54	0.00	12.11	807.30	0.00	4.09	10839.12	0.00	97.55	6054.97	0.00	54.59	0.00	0.00	0.00	18935.93	0.00	168.34
8	0.00	0.00	0.00	25205.48	0.00	226.85	0.00	0.00	0.00	21917.81	0.00	197.26	0.00	0.00	0.00	47123.29	0.00	424.11
9	142403.67	-9735.55	0.00	169802.50	0.00	0.00	12201.11	12201.11	0.00	208910.81	-12201.11	0.00	628153.50	0.00	0.00	1161471.6	-9735.55	0.00
10	0.00	0.00	0.00	152.00	0.00	0.00	2165.48	2165.48	0.00	492.00	-2165.48	0.00	106.00	0.00	0.00	2915.48	0.00	0.00
Total	144417.71	-9735.55	51.08	199571.48	168.34	376.76	27949.12	14198.25	307.43	243784.44	-14366.59	753.31	629460.52	0.00	116.88	1245183.3	-9735.55	1605.46

b) Withdrawals by Source - Principal facilities

Water-Use Categ.	LAKE SUPERIOR			LAKE HURON			LAKE ERIE			LAKE ONTARIO			ST. LAWRENCE RIVER			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	62.76	9.17	7.17	244.02	124.43	154.45	407.74	71.18	285.59	2757.95	136.33	63.37	144.38	410.95	15.89	3616.85	752.06	526.47
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	651.00	41.20	8.20	2735.90	298.20	47.20	1845.90	99.90	33.10	3031.30	413.90	6.00	501.60	111.00	17.20	8765.70	964.20	111.70
7	1234.54	0.00	0.00	807.30	0.00	0.00	10839.12	0.00	0.00	6054.97	0.00	0.00	0.00	0.00	0.00	18935.93	0.00	0.00
8	0.00	0.00	0.00	25205.48	0.00	0.00	0.00	0.00	0.00	21917.81	0.00	0.00	0.00	0.00	0.00	47123.29	0.00	0.00
9	0.00	142403.67	0.00	89906.80	79895.70	0.00	12201.11	0.00	0.00	169744.11	39166.70	0.00	295660.80	332492.70	0.00	567512.82	593958.77	0.00
10	0.00	0.00	0.00	0.00	152.00	0.00	2165.48	0.00	0.00	0.00	492.00	0.00	0.00	106.00	0.00	2165.48	750.00	0.00
Total	1948.30	142454.04	15.37	118899.50	80470.33	201.65	27459.35	171.08	318.69	203506.14	40208.93	69.37	296306.78	333120.65	33.09	648120.07	596425.03	638.17

c) Diversions by Type - Principal facilities

Water-Use Categ.	LAKE SUPERIOR		LAKE HURON		LAKE ERIE		LAKE ONTARIO		ST. LAWRENCE RIVER		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	168.34	0.00	-168.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	-9735.55	0.00	0.00	12201.11	0.00	-12201.11	0.00	0.00	0.00	0.00	-9735.55
10	0.00	0.00	0.00	0.00	2165.48	0.00	-2165.48	0.00	0.00	0.00	0.00	0.00
Total	0.00	-9735.55	168.34	0.00	14198.25	0.00	-14366.59	0.00	0.00	0.00	0.00	-9735.55

Level of Accuracy of Withdrawal Data: 6.9% Measured 93% Partially Measured .1% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Sources: 99.9% Site-specific .1% Aggregated

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	LAKE ERIE			LAKE ONTARIO			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	175.00	0.00	17.49	0.45	0.00	0.04	175.45	0.00	17.53
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	7.46	0.00	0.72	0.19	0.00	0.04	7.65	0.00	0.76
4	11.17	0.00	10.56	0.00	0.00	0.00	11.17	0.00	10.56
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	187.68	0.00	39.37	0.00	0.00	0.00	187.68	0.00	39.37
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	381.30	0.00	68.14	0.64	0.00	0.08	381.95	0.00	68.21

b) Withdrawals by Source - All facilities

Water-Use Categ.	LAKE ERIE			LAKE ONTARIO			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	161.64	4.13	9.24	0.00	0.00	0.45	161.64	4.13	9.69
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	7.46	0.00	0.00	0.19	0.00	0.00	7.65
4	0.00	8.18	2.99	0.00	0.00	0.00	0.00	8.18	2.99
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	180.71	5.94	1.02	0.00	0.00	0.00	180.71	5.94	1.02
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	342.35	18.25	20.71	0.00	0.00	0.64	342.35	18.25	21.35

c) Diversions by Type - All facilities

Water-Use Categ.	LAKE ERIE		LAKE ONTARIO		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00

Level of Accuracy of Withdrawal Data: 45.9% Measured 54.1% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 98% Site-specific 2% Aggregated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE ERIE			LAKE ONTARIO			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	172.92	0.00	17.30	0.00	0.00	0.00	172.92	0.00	17.30
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	10.18	0.00	9.58	0.00	0.00	0.00	10.18	0.00	9.58
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	186.70	0.00	39.25	0.00	0.00	0.00	186.70	0.00	39.25
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	369.80	0.00	66.13	0.00	0.00	0.00	369.80	0.00	66.13

b) Withdrawals by Source - Principal facilities

Water- Use Categ.	LAKE ERIE			LAKE ONTARIO			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	161.64	4.01	7.27	0.00	0.00	0.00	161.64	4.01	7.27
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	7.19	2.99	0.00	0.00	0.00	0.00	7.19	2.99
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	180.71	5.60	0.38	0.00	0.00	0.00	180.71	5.60	0.38
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	342.35	16.81	10.64	0.00	0.00	0.00	342.35	16.81	10.64

c) Diversions by Type - Principal facilities

Water- Use Categ.	LAKE ERIE		LAKE ONTARIO		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00

Level of Accuracy of Withdrawal Data: 45.9% Measured 54.1% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 98% Site-specific 2% Aggregated

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water- Use Categ.	ST. LAWRENCE RIVER			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	5314.00	0.00	531.00	5314.00	0.00	531.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	271.00	0.00	27.00	271.00	0.00	27.00
4	13.30	0.00	11.97	13.30	0.00	11.97
5	88.10	0.00	70.48	88.10	0.00	70.48
6	475.00	0.00	41.90	475.00	0.00	41.90
7	178.00	0.00	0.00	178.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	1075939.0	0.00	0.00	1075939.0	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	1082278.4	0.00	682.35	1082278.4	0.00	682.35

b) Withdrawals by Source - All facilities

Water- Use Categ.	ST. LAWRENCE RIVER			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	3790.00	1524.00	0.00	3790.00	1524.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	271.00	0.00	0.00	271.00
4	0.00	0.00	13.30	0.00	0.00	13.30
5	0.00	0.00	88.10	0.00	0.00	88.10
6	0.00	475.00	0.00	0.00	475.00	0.00
7	148.00	30.00	0.00	148.00	30.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	616896.00	459043.00	0.00	616896.00	459043.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	620834.00	461072.00	372.40	620834.00	461072.00	372.40

c) Diversions by Type - All facilities

Water- Use Categ.	ST. LAWRENCE RIVER		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00

Level of Accuracy of Withdrawal Data: 99.9% Measured
Level of Aggregation of Withdrawal Data Source: 100% Site-specific

.1% Calculated or Estimated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	ST. LAWRENCE RIVER			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	5300.00	0.00	530.00	5300.00	0.00	530.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	184.00	0.00	18.00	184.00	0.00	18.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	473.00	0.00	41.80	473.00	0.00	41.80
7	178.00	0.00	0.00	178.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	1075939.0	0.00	0.00	1075939.0	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	1082074.0	0.00	589.80	1082074.0	0.00	589.80

b) Withdrawals by Source - Principal facilities

Water-Use Categ.	ST. LAWRENCE RIVER			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW
1	3790.00	1510.00	0.00	3790.00	1510.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	184.00	0.00	0.00	184.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	473.00	0.00	0.00	473.00	0.00
7	148.00	30.00	0.00	148.00	30.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	616896.00	459043.00	0.00	616896.00	459043.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	620834.00	461056.00	184.00	620834.00	461056.00	184.00

c) Diversions by Type - Principal facilities

Water-Use Categ.	ST. LAWRENCE RIVER		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00

Level of Accuracy of Withdrawal Data: 99.9% Measured
Level of Aggregation of Withdrawal Data Source: 100% Site-specific

.1% Calculated or Estimated

a) Withdrawals, Diversions and Consumptive Use - All facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	18.55	0.00	2.87	1842.73	3.79	284.66	1861.28	3.79	287.53
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.34	0.00	0.04	79.49	0.00	12.49	79.83	0.00	12.53
4	0.00	0.00	0.00	44.67	0.00	6.81	44.67	0.00	6.81
5	0.00	0.00	0.00	98.42	0.00	15.71	98.42	0.00	15.71
6	0.00	0.00	0.00	1446.02	0.00	224.10	1446.02	0.00	224.10
7	208.20	0.00	32.18	7770.66	0.00	229.89	7978.86	0.00	1236.78
8	0.00	0.00	0.00	5525.92	0.00	55.27	5525.92	0.00	55.27
9	557.32	0.00	0.00	16314.08	0.00	0.00	16871.40	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	784.41	0.00	35.09	33122.00	3.79	1803.62	33906.41	3.79	1838.72

b) Withdrawals by Source - All facilities

Water- Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	18.55	0.00	0.00	935.37	90.85	816.51	953.92	90.85	816.51
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.34	0.00	0.00	79.49	0.00	0.00	79.83
4	0.00	0.00	0.00	0.00	0.00	44.67	0.00	0.00	44.67
5	0.00	0.00	0.00	0.00	11.36	87.06	0.00	11.36	87.06
6	0.00	0.00	0.00	7.57	1381.67	56.78	7.57	1381.67	56.78
7	208.20	0.00	0.00	7733.57	34.07	3.03	7941.76	34.07	3.03
8	0.00	0.00	0.00	5525.92	0.00	0.00	5525.92	0.00	0.00
9	0.00	557.32	0.00	0.00	16314.08	0.00	0.00	16871.40	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	226.75	557.32	0.34	14202.43	17832.02	1087.54	14429.18	18389.35	1087.89

c) Diversions by Type - All facilities

Water- Use Categ.	LAKE SUPERIOR		LAKE MICHIGAN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	3.79	0.00	3.79
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	3.79	0.00	3.79

Level of Accuracy of Withdrawal Data: 100% Calculated or Estimated
 Level of Aggregation of Withdrawal Data Source: 100% Aggregated

a) Withdrawals, Diversions and Consumptive Use - Principal facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water- Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	17.41	0.00	2.87	1842.73	3.79	284.66	1860.14	3.79	287.53
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	22.33	0.00	14.38	22.33	0.00	14.38
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	1281.36	0.00	206.30	1281.36	0.00	206.30
7	208.20	0.00	32.18	7767.64	0.00	1204.13	7975.83	0.00	1236.31
8	0.00	0.00	0.00	5525.92	0.00	55.27	5525.92	0.00	55.27
9	557.32	0.00	0.00	16314.08	0.00	0.00	16871.40	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	782.93	0.00	35.09	32754.06	3.79	1764.75	33536.99	3.79	1799.80

b) Withdrawals by Source - Principal facilities

Water- Use Categ.	LAKE SUPERIOR			LAKE MICHIGAN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	17.41	0.00	0.00	935.37	90.85	816.51	952.78	90.85	816.51
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	22.33	0.00	0.00	22.33
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	7.57	1268.11	5.68	7.57	1268.11	5.68
7	208.20	0.00	0.00	7733.57	34.07	0.00	7941.76	34.07	0.00
8	0.00	0.00	0.00	5525.92	0.00	0.00	5525.92	0.00	0.00
9	0.00	557.32	0.00	0.00	16314.08	0.00	0.00	16871.40	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	225.61	557.32	0.00	14202.43	17707.10	844.52	14428.04	18264.43	844.52

c) Diversions by Type - Principal facilities

Water- Use Categ.	LAKE SUPERIOR		LAKE MICHIGAN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	3.79	0.00	3.79
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	3.79	0.00	3.79

Level of Accuracy of Withdrawal Data: 100% Calculated or Estimated
Level of Aggregation of Withdrawal Data Source: 100% Aggregated

a) Withdrawals, Diversions and Consumptive Use - All Facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	MICHIGAN*			MINNESOTA			ONTARIO			WISCONSIN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	0.00	0.00	0.00	156.15	0.00	32.82	79.96	0.00	12.00	18.55	0.00	2.87	254.66	0.00	47.69
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	7.08	0.00	0.57	6.34	0.00	0.95	0.34	0.00	0.04	13.76	0.00	1.56
4	0.00	0.00	0.00	2.01	0.00	1.74	0.71	0.00	0.55	0.00	0.00	0.00	2.72	0.00	2.29
5	0.00	0.00	0.00	12.30	0.00	0.00	1.20	0.00	0.96	0.00	0.00	0.00	13.50	0.00	0.96
6	0.00	0.00	0.00	793.53	0.00	227.62	700.90	0.00	27.20	0.00	0.00	0.00	1494.43	0.00	254.82
7	987.12	0.00	12.83	588.06	0.00	11.77	1234.54	0.00	12.11	208.20	0.00	32.18	3017.92	0.00	68.89
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	16602.75	0.00	0.00	142403.67	-9735.55	0.00	557.32	0.00	0.00	159563.75	-9735.55	0.00
10	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00
Total	987.12	0.00	12.83	18162.64	0.00	274.52	144427.32	-9735.55	53.77	784.41	0.00	35.09	164361.49	-9735.55	376.21

b) Withdrawals by Source - All Facilities

Water-Use Categ.	MICHIGAN*			MINNESOTA			ONTARIO			WISCONSIN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	0.00	0.00	127.38	11.28	17.49	63.02	9.77	7.17	18.55	0.00	0.00	208.95	21.05	24.66
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	5.00	1.97	0.11	0.00	0.00	6.34	0.00	0.00	0.34	5.00	1.97	6.79
4	0.00	0.00	0.00	0.00	2.01	0.00	0.00	0.50	0.21	0.00	0.00	0.00	0.00	2.51	0.21
5	0.00	0.00	0.00	2.46	8.33	1.51	0.00	0.00	1.20	0.00	0.00	0.00	2.46	8.33	2.71
6	0.00	0.00	0.00	465.30	327.82	0.42	651.10	41.30	8.50	0.00	0.00	0.00	1116.40	369.12	8.92
7	987.12	0.00	0.00	145.13	442.89	0.04	1234.54	0.00	0.00	208.20	0.00	0.00	2574.99	442.89	0.04
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	16602.75	0.00	0.00	142403.67	0.00	0.00	557.32	0.00	0.00	159563.75	0.00
10	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76
Total	987.12	0.00	0.00	745.27	17397.04	20.33	1948.66	142455.24	23.42	226.75	557.32	0.34	3907.79	160409.61	44.09

c) Diversions by Type - All Facilities

Water-Use Categ.	MICHIGAN*		MINNESOTA		ONTARIO		WISCONSIN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	-9735.55	0.00	0.00	0.00	-9735.55
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	-9735.55	0.00	0.00	0.00	-9735.55

*The State of Michigan was unable to report by sub-basin for most categories of use.

a) Withdrawals, Diversions and Consumptive Use - Principal Facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	MICHIGAN*			MINNESOTA			ONTARIO			WISCONSIN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	0.00	0.00	0.00	154.90	0.00	32.52	79.10	0.00	11.87	17.41	0.00	2.87	251.41	0.00	47.26
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	6.89	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	6.89	0.00	0.57
4	0.00	0.00	0.00	1.36	0.00	1.21	0.00	0.00	0.00	0.00	0.00	0.00	1.36	0.00	1.21
5	0.00	0.00	0.00	2.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46	0.00	0.00
6	0.00	0.00	0.00	792.17	0.00	227.46	700.40	0.00	27.10	0.00	0.00	0.00	1492.57	0.00	254.56
7	0.00	0.00	0.00	587.68	0.00	11.77	1234.54	0.00	12.11	208.20	0.00	32.18	2030.42	0.00	56.06
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	16602.75	0.00	0.00	142403.67	-9735.55	0.00	557.32	0.00	0.00	159563.75	-9735.55	0.00
10	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00
Total	0.00	0.00	0.00	18148.71	0.00	273.53	144417.71	-9735.55	51.08	782.93	0.00	35.09	163349.35	-9735.55	359.66

b) Withdrawals by Source - Principal Facilities

Water-Use Categ.	MICHIGAN*			MINNESOTA			ONTARIO			WISCONSIN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	0.00	0.00	127.27	11.28	16.35	62.76	9.17	7.17	17.41	0.00	0.00	207.44	20.45	23.52
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	5.00	1.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	1.89	0.00
4	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36	0.00
5	0.00	0.00	0.00	2.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46	0.00	0.00
6	0.00	0.00	0.00	465.30	326.87	0.00	651.00	41.20	8.20	0.00	0.00	0.00	1116.30	368.07	8.20
7	0.00	0.00	0.00	145.13	442.55	0.00	1234.54	0.00	0.00	208.20	0.00	0.00	1587.87	442.55	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	16602.75	0.00	0.00	142403.67	0.00	0.00	557.32	0.00	0.00	159563.75	0.00
10	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49
Total	0.00	0.00	0.00	745.16	17386.71	16.85	1948.30	142454.04	15.37	225.61	557.32	0.00	2919.07	160398.07	32.22

c) Diversions by Type - Principal Facilities

Water-Use Categ.	MICHIGAN*		MINNESOTA		ONTARIO		WISCONSIN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	-9735.55	0.00	0.00	0.00	-9735.55
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	-9735.55	0.00	0.00	0.00	-9735.55

*The State of Michigan was unable to report by sub-basin for most categories of use.

a) Withdrawals, Diversions and Consumptive Use - All Facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	ILLINOIS			INDIANA			MICHIGAN*			WISCONSIN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	4359.91	4359.91	0.00	555.66	-11.51	83.35	0.00	0.00	0.00	1842.73	3.79	284.66	6758.30	4352.18	368.02
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	112.12	20.37	0.00	196.42	0.00	29.45	0.00	0.00	0.00	79.49	0.00	12.49	388.04	20.37	41.94
4	0.00	0.00	0.00	108.07	0.00	97.28	0.00	0.00	0.00	44.67	0.00	6.81	152.74	0.00	104.10
5	0.00	0.00	0.00	26.12	0.00	20.90	0.00	0.00	0.00	98.42	0.00	15.71	124.54	0.00	36.60
6	22.64	18.28	1.55	6481.47	0.00	388.91	0.00	0.00	0.00	1446.02	0.00	224.10	7950.13	18.28	614.56
7	2548.63	0.00	0.00	3577.54	0.00	71.58	4132.59	0.00	53.75	7770.66	0.00	1204.60	18029.43	0.00	1329.93
8	6533.71	0.00	0.00	0.00	0.00	0.00	8181.34	0.00	106.37	5525.92	0.00	55.27	20240.97	0.00	161.64
9	0.00	0.00	0.00	141.08	0.00	0.00	0.00	0.00	0.00	16314.08	0.00	0.00	16455.16	0.00	0.00
10	1156.14	1156.14	0.00	0.87	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	1157.01	1156.14	0.08
Total	14733.14	5554.69	1.55	11087.24	-11.51	691.55	12313.93	0.00	160.12	33122.00	3.79	1803.62	71256.32	5546.97	2656.86

b) Withdrawals by Source - All Facilities

Water-Use Categ.	ILLINOIS			INDIANA			MICHIGAN*			WISCONSIN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	4359.91	0.00	0.00	339.93	0.00	215.73	0.00	0.00	0.00	935.37	90.85	816.51	5635.21	90.85	1032.24
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	111.63	0.08	0.42	0.00	116.40	80.02	0.00	0.00	0.00	0.00	0.00	79.49	111.63	116.48	159.93
4	0.00	0.00	0.00	0.00	35.13	72.94	0.00	0.00	0.00	0.00	0.00	44.67	0.00	35.13	117.61
5	0.00	0.00	0.00	0.00	5.68	20.44	0.00	0.00	0.00	0.00	11.36	87.06	0.00	17.03	107.51
6	22.64	0.00	0.00	6361.17	32.71	87.59	0.00	0.00	0.00	7.57	1381.67	56.78	6391.38	1414.38	144.38
7	2548.63	0.00	0.00	3572.66	0.00	4.88	3652.91	471.05	8.63	7733.57	34.07	3.03	17507.76	505.12	16.54
8	6533.71	0.00	0.00	0.00	0.00	0.00	8181.34	0.00	0.00	5525.92	0.00	0.00	20240.97	0.00	0.00
9	0.00	0.00	0.00	0.00	141.08	0.00	0.00	0.00	0.00	0.00	16314.08	0.00	0.00	16455.16	0.00
10	1156.14	0.00	0.00	0.00	0.38	0.49	0.00	0.00	0.00	0.00	0.00	0.00	1156.14	0.38	0.49
Total	14732.65	0.08	0.42	10273.76	331.37	482.11	11834.25	471.05	8.63	14202.43	17832.02	1087.54	51043.09	18634.53	1578.70

c) Diversions by Type - All Facilities

Water-Use Categ.	ILLINOIS		INDIANA		MICHIGAN*		WISCONSIN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	4359.91	0.00	-11.51	0.00	0.00	0.00	3.79	0.00	4352.18
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	20.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.37
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	18.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.28
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	1156.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1156.14
Total	0.00	5554.69	0.00	-11.51	0.00	0.00	0.00	3.79	0.00	5546.97

*The State of Michigan was unable to report by sub-basin for most categories of use.

a) Withdrawals, Diversions and Consumptive Use - Principal Facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	ILLINOIS			INDIANA			MICHIGAN*			WISCONSIN			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	4359.91	4359.91	0.00	553.20	-11.51	82.98	0.00	0.00	0.00	1842.73	3.79	284.66	6755.84	4352.18	367.64
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	111.63	20.37	0.00	130.33	0.00	19.53	0.00	0.00	0.00	0.00	0.00	0.00	241.96	20.37	19.53
4	0.00	0.00	0.00	106.10	0.00	95.51	0.00	0.00	0.00	22.33	0.00	14.38	128.44	0.00	109.89
5	0.00	0.00	0.00	11.02	0.00	8.82	0.00	0.00	0.00	0.00	0.00	0.00	11.02	0.00	8.82
6	22.64	18.28	1.55	6478.67	0.00	388.76	0.00	0.00	0.00	1281.36	0.00	206.30	7782.67	18.28	596.62
7	2548.63	0.00	0.00	3577.54	0.00	71.58	0.00	0.00	0.00	7767.64	0.00	1204.13	13893.81	0.00	1275.72
8	6533.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5525.92	0.00	55.27	12059.63	0.00	55.27
9	0.00	0.00	0.00	141.08	0.00	0.00	0.00	0.00	0.00	16314.08	0.00	0.00	16455.16	0.00	0.00
10	1156.14	1156.14	0.00	0.38	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	1156.51	1156.14	0.04
Total	14732.65	5554.69	1.55	10998.32	-11.51	667.21	0.00	0.00	0.00	32754.06	3.79	1764.75	58485.03	5546.97	2433.52

b) Withdrawals by Source - Principal Facilities

Water-Use Categ.	ILLINOIS			INDIANA			MICHIGAN*			WISCONSIN			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	4359.91	0.00	0.00	339.93	0.00	213.27	0.00	0.00	0.00	935.37	90.85	816.51	5635.21	90.85	1029.78
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	111.63	0.00	0.00	0.00	116.36	13.97	0.00	0.00	0.00	0.00	0.00	0.00	111.63	116.36	13.97
4	0.00	0.00	0.00	0.00	34.14	71.96	0.00	0.00	0.00	0.00	0.00	22.33	0.00	34.14	94.29
5	0.00	0.00	0.00	0.00	5.68	5.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.68	5.34
6	22.64	0.00	0.00	6361.17	32.63	84.87	0.00	0.00	0.00	7.57	1268.11	5.68	6391.38	1300.74	90.55
7	2548.63	0.00	0.00	3572.66	0.00	4.88	0.00	0.00	0.00	7733.57	34.07	0.00	13854.86	34.07	4.88
8	6533.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5525.92	0.00	0.00	12059.63	0.00	0.00
9	0.00	0.00	0.00	0.00	141.08	0.00	0.00	0.00	0.00	0.00	16314.08	0.00	0.00	16455.16	0.00
10	1156.14	0.00	0.00	0.00	0.23	0.15	0.00	0.00	0.00	0.00	0.00	0.00	1156.14	0.23	0.15
Total	14732.65	0.00	0.00	10273.76	330.12	394.44	0.00	0.00	0.00	14202.43	17707.10	844.52	39208.84	18037.23	1238.96

c) Diversions by Type - Principal Facilities

Water-Use Categ.	ILLINOIS		INDIANA		MICHIGAN*		WISCONSIN		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	4359.91	0.00	-11.51	0.00	0.00	0.00	3.79	0.00	4352.18
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	20.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.37
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	18.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.28
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	1156.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1156.14
Total	0.00	5554.69	0.00	-11.51	0.00	0.00	0.00	3.79	0.00	5546.97

*The State of Michigan was unable to report by sub-basin for most categories of use.

a) Withdrawals, Diversions and Consumptive Use - All Facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water- Use Categ.	MICHIGAN*			ONTARIO			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	0.00	0.00	0.00	568.72	168.34	85.32	568.72	168.34	85.32
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	114.21	0.00	19.12	114.21	0.00	19.12
4	0.00	0.00	0.00	99.35	0.00	77.50	99.35	0.00	77.50
5	0.00	0.00	0.00	63.65	0.00	50.92	63.65	0.00	50.92
6	0.00	0.00	0.00	3087.10	0.00	68.20	3087.10	0.00	68.20
7	2469.86	0.00	32.10	807.30	0.00	4.09	3277.16	0.00	36.19
8	0.00	0.00	0.00	25205.48	0.00	226.85	25205.48	0.00	226.85
9	0.00	0.00	0.00	169802.50	0.00	0.00	169802.50	0.00	0.00
10	0.00	0.00	0.00	152.00	0.00	0.00	152.00	0.00	0.00
Total	2469.86	0.00	32.10	199900.31	168.34	532.00	202370.17	168.34	564.10

b) Withdrawals by Source - All Facilities

Water- Use Categ.	MICHIGAN*			ONTARIO			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	0.00	0.00	245.35	145.15	178.22	245.35	145.15	178.22
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	114.21	0.00	0.00	114.21
4	0.00	0.00	0.00	0.00	76.30	23.05	0.00	76.30	23.05
5	0.00	0.00	0.00	0.00	0.00	63.65	0.00	0.00	63.65
6	0.00	0.00	0.00	2736.00	301.30	49.80	2736.00	301.30	49.80
7	2469.74	0.11	0.00	807.30	0.00	0.00	3277.04	0.11	0.00
8	0.00	0.00	0.00	25205.48	0.00	0.00	25205.48	0.00	0.00
9	0.00	0.00	0.00	89906.80	79895.70	0.00	89906.80	79895.70	0.00
10	0.00	0.00	0.00	0.00	152.00	0.00	0.00	152.00	0.00
Total	2469.74	0.11	0.00	118900.93	80570.45	428.93	121370.67	80570.56	428.93

c) Diversions by Type - All Facilities

Water- Use Categ.	MICHIGAN*		ONTARIO		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	168.34	0.00	168.34	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	168.34	0.00	168.34	0.00

*The State of Michigan was unable to report by sub-basin for most categories of use.

a) Withdrawals, Diversions and Consumptive Use - Principal Facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water- Use Categ.	MICHIGAN*			ONTARIO			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	0.00	0.00	0.00	522.90	168.34	78.42	522.90	168.34	78.42
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	3081.30	0.00	67.40	3081.30	0.00	67.40
7	0.00	0.00	0.00	807.30	0.00	4.09	807.30	0.00	4.09
8	0.00	0.00	0.00	25205.48	0.00	226.85	25205.48	0.00	226.85
9	0.00	0.00	0.00	169802.50	0.00	0.00	169802.50	0.00	0.00
10	0.00	0.00	0.00	152.00	0.00	0.00	152.00	0.00	0.00
Total	0.00	0.00	0.00	199571.48	168.34	376.76	199571.48	168.34	376.76

b) Withdrawals by Source - Principal Facilities

Water- Use Categ.	MICHIGAN*			ONTARIO			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	0.00	0.00	244.02	124.43	154.45	244.02	124.43	154.45
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	2735.90	298.20	47.20	2735.90	298.20	47.20
7	0.00	0.00	0.00	807.30	0.00	0.00	807.30	0.00	0.00
8	0.00	0.00	0.00	25205.48	0.00	0.00	25205.48	0.00	0.00
9	0.00	0.00	0.00	89906.80	79895.70	0.00	89906.80	79895.70	0.00
10	0.00	0.00	0.00	0.00	152.00	0.00	0.00	152.00	0.00
Total	0.00	0.00	0.00	118899.50	80470.33	201.65	118899.50	80470.33	201.65

c) Diversions by Type - Principal Facilities

Water- Use Categ.	MICHIGAN*		ONTARIO		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	168.34	0.00	168.34	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	168.34	0.00	168.34	0.00

*The State of Michigan was unable to report by sub-basin for most categories of use.

BASIN REPORT - Lake Erie

DATE: 01/22/93

a) Withdrawals, Diversions and Consumptive Use - All Facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	INDIANA			MICHIGAN*			NEW YORK			OHIO			ONTARIO			PENNSYLVANIA			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	143.73	0.00	21.54	0.00	0.00	0.00	779.79	0.00	77.98	2314.24	0.83	347.08	770.01	-168.34	115.51	175.00	0.00	17.49	4182.77	-167.51	579.60
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	32.44	0.00	4.88	0.00	0.00	0.00	295.26	0.00	29.53	228.22	0.00	34.22	113.38	0.00	17.01	7.46	0.00	0.72	676.76	0.00	86.36
4	7.00	0.00	6.28	0.00	0.00	0.00	6.06	0.00	0.61	55.76	0.00	50.19	476.33	0.00	371.54	11.17	0.00	10.56	556.32	0.00	439.19
5	6.85	0.00	5.49	0.00	0.00	0.00	5.30	0.00	4.16	48.30	0.00	38.65	64.65	0.00	51.72	0.00	0.00	0.00	125.10	0.00	100.02
6	54.13	0.00	3.26	0.00	0.00	0.00	221.07	0.00	21.96	911.90	0.00	91.19	1985.70	0.00	96.30	187.68	0.00	39.37	3360.48	0.00	252.07
7	1.02	0.00	0.04	15978.31	0.00	207.70	1828.35	0.00	3.79	9341.07	0.00	0.83	10839.12	0.00	97.55	0.00	0.00	0.00	37987.88	0.00	309.91
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	550.21	0.00	94.45	0.00	0.00	0.00	0.00	0.00	0.00	550.21	0.00	94.45
9	0.00	0.00	0.00	0.00	0.00	0.00	2119.82	0.00	0.00	0.00	0.00	0.00	12201.11	12201.11	0.00	0.00	0.00	0.00	14320.93	12201.11	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.03	-40.92	0.00	2165.48	2165.48	0.00	0.00	0.00	0.00	2192.51	2124.56	0.00
Total	245.18	0.00	41.49	15978.31	0.00	207.70	5255.65	0.00	138.02	13476.73	-40.09	656.61	28615.78	14198.25	749.63	381.30	0.00	68.14	63952.95	14158.16	1861.59

b) Withdrawals by Source - All Facilities

Water-Use Categ.	INDIANA			MICHIGAN*			NEW YORK			OHIO			ONTARIO			PENNSYLVANIA			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	123.25	20.48	0.00	0.00	0.00	605.66	174.13	0.00	1792.65	388.57	133.02	407.74	71.48	290.79	161.64	4.13	9.24	2967.69	761.56	453.52
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.19	32.25	0.00	0.00	0.00	37.85	37.85	219.55	0.00	0.00	228.22	0.00	0.00	113.38	0.00	0.00	7.46	37.85	38.04	600.86
4	0.00	2.46	4.54	0.00	0.00	0.00	4.54	0.00	1.51	0.00	39.67	16.09	0.00	350.10	126.23	0.00	8.18	2.99	4.54	400.41	151.37
5	0.00	0.00	6.85	0.00	0.00	0.00	1.89	0.00	3.41	0.00	7.91	40.39	0.00	0.00	64.65	0.00	0.00	0.00	1.89	7.91	115.30
6	0.00	45.61	8.52	0.00	0.00	0.00	208.20	0.00	12.87	194.27	599.04	118.60	1846.20	103.30	36.20	180.71	5.94	1.02	2429.38	753.90	177.21
7	0.00	0.00	1.02	15977.97	0.34	0.00	1828.35	0.00	0.00	9012.69	328.38	0.00	10839.12	0.00	0.00	0.00	0.00	0.00	37658.13	328.72	1.02
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	550.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	550.21	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	2119.82	0.00	0.00	0.00	0.00	0.00	12201.11	0.00	0.00	0.00	0.00	0.00	14320.93	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.50	11.17	11.36	2165.48	0.00	0.00	0.00	0.00	0.00	2169.98	11.17	11.36
Total	0.00	171.52	73.66	15977.97	0.34	0.00	4806.32	211.98	237.34	11554.32	1374.74	547.67	27459.65	524.88	631.25	342.35	18.25	20.71	60140.61	2301.71	1510.64

c) Diversions by Type - All Facilities

Water-Use Categ.	INDIANA		MICHIGAN*		NEW YORK		OHIO		ONTARIO		PENNSYLVANIA		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	-168.34	0.00	0.00	0.00	-168.34	0.83
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12201.11	0.00	0.00	0.00	12201.11	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-40.92	2165.48	0.00	0.00	0.00	2165.48	-40.92
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-40.09	14198.25	0.00	0.00	0.00	14198.25	-40.09

*The State of Michigan was unable to report by sub-basin for most categories of use.

BASIN REPORT - Lake Erie

DATE: 01/22/93

a) Withdrawals, Diversions and Consumptive Use - Principal Facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	INDIANA			MICHIGAN*			NEW YORK			OHIO			ONTARIO			PENNSYLVANIA			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	142.97	0.00	21.43	0.00	0.00	0.00	0.00	0.00	0.00	2305.38	0.83	345.80	764.51	-168.34	114.68	172.92	0.00	17.30	3385.78	-167.51	499.20
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.68	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	5.64	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00	6.32	0.00	0.95
4	5.91	0.00	5.34	0.00	0.00	0.00	0.00	0.00	0.00	35.13	0.00	31.61	0.00	0.00	0.00	10.18	0.00	9.58	51.22	0.00	46.52
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	1.48	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	1.48
6	53.30	0.00	3.18	0.00	0.00	0.00	0.00	0.00	0.00	900.43	0.00	90.02	1978.90	0.00	95.20	186.70	0.00	39.25	3119.33	0.00	227.65
7	1.02	0.00	0.04	0.00	0.00	0.00	1828.35	0.00	0.00	9341.07	0.00	0.83	10839.12	0.00	97.55	0.00	0.00	0.00	22009.56	0.00	98.42
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	550.21	0.00	94.45	0.00	0.00	0.00	0.00	0.00	0.00	550.21	0.00	94.45
9	0.00	0.00	0.00	0.00	0.00	0.00	2119.82	0.00	0.00	0.00	0.00	0.00	12201.11	12201.11	0.00	0.00	0.00	0.00	14320.93	12201.11	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.97	-40.92	0.00	2165.48	2165.48	0.00	0.00	0.00	0.00	2191.45	2124.56	0.00
Total	203.88	0.00	30.09	0.00	0.00	0.00	3948.17	0.00	0.00	13165.69	-40.09	565.01	27949.12	14198.25	307.43	369.80	0.00	66.13	45636.65	14158.16	968.66

b) Withdrawals by Source - Principal Facilities

Water-Use Categ.	INDIANA			MICHIGAN*			NEW YORK			OHIO			ONTARIO			PENNSYLVANIA			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	123.25	19.72	0.00	0.00	0.00	0.00	0.00	0.00	1791.51	386.53	127.34	407.74	71.18	285.59	161.64	4.01	7.27	2360.89	584.97	439.92
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.19	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	6.13
4	0.00	2.27	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.78	7.34	0.00	0.00	0.00	0.00	7.19	2.99	0.00	37.25	13.91
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00
6	0.00	45.58	7.72	0.00	0.00	0.00	0.00	0.00	0.00	194.27	590.56	115.61	1845.90	99.90	33.10	180.71	5.60	0.38	2220.88	741.64	156.87
7	0.00	0.00	1.02	0.00	0.00	0.00	1828.35	0.00	0.00	9012.69	328.38	0.00	10839.12	0.00	0.00	0.00	0.00	0.00	21680.16	328.38	1.02
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	550.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	550.21	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	2119.82	0.00	0.00	0.00	0.00	0.00	12201.11	0.00	0.00	0.00	0.00	0.00	14320.93	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.50	11.17	10.30	2165.48	0.00	0.00	0.00	0.00	0.00	2169.98	11.17	10.30
Total	0.00	171.29	32.59	0.00	0.00	0.00	3948.17	0.00	0.00	11553.18	1346.28	266.23	27459.35	171.08	318.69	342.35	16.81	10.64	43303.05	1705.45	628.11

c) Diversions by Type - Principal Facilities

Water-Use Categ.	INDIANA		MICHIGAN*		NEW YORK		OHIO		ONTARIO		PENNSYLVANIA		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	-168.34	0.00	0.00	0.00	-168.34	0.83
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12201.11	0.00	0.00	0.00	12201.11	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-40.92	2165.48	0.00	0.00	0.00	2165.48	-40.92
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-40.09	14198.25	0.00	0.00	0.00	14198.25	-40.09

*The State of Michigan was unable to report by sub-basin for most categories of use.

a) Withdrawals, Diversions and Consumptive Use - All Facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	NEW YORK			ONTARIO			PENNSYLVANIA			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	1006.92	0.00	100.69	2971.24	0.00	445.69	0.45	0.00	0.04	3978.61	0.00	546.42
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	1097.77	0.00	109.78	135.02	0.00	20.25	0.19	0.00	0.04	1232.97	0.00	130.06
4	30.28	0.00	3.03	108.51	0.00	84.64	0.00	0.00	0.00	138.79	0.00	87.67
5	24.23	0.00	12.49	33.72	0.00	26.98	0.00	0.00	0.00	57.95	0.00	39.47
6	832.79	0.00	83.28	3471.60	0.00	61.00	0.00	0.00	0.00	4304.39	0.00	144.28
7	8524.71	0.00	30.28	6054.97	0.00	54.59	0.00	0.00	0.00	14579.68	0.00	84.87
8	4902.09	0.00	11.36	21917.81	0.00	197.26	0.00	0.00	0.00	26819.90	0.00	208.62
9	552016.90	0.00	0.00	208910.81	-12201.11	0.00	0.00	0.00	0.00	760927.71	-12201.11	0.00
10	1499.02	1499.02	0.00	492.00	-2165.48	0.00	0.00	0.00	0.00	1991.02	-666.46	0.00
Total	569934.70	1499.02	350.91	244095.68	-14366.59	890.41	0.64	0.00	0.08	814031.03	-12867.57	1241.39

b) Withdrawals by Source - All Facilities

Water-Use Categ.	NEW YORK			ONTARIO			PENNSYLVANIA			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	363.40	526.17	117.35	2758.25	138.16	74.83	0.00	0.00	0.45	3121.65	664.33	192.63
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	382.33	363.40	352.04	0.00	0.00	135.02	0.00	0.00	0.19	382.33	363.40	487.25
4	26.50	0.00	3.79	0.00	80.41	28.10	0.00	0.00	0.00	26.50	80.41	31.89
5	9.46	0.00	14.76	0.00	0.00	33.72	0.00	0.00	0.00	9.46	0.00	48.48
6	681.37	0.00	151.42	3032.30	426.90	12.40	0.00	0.00	0.00	3713.67	426.90	163.82
7	8524.71	0.00	0.00	6054.97	0.00	0.00	0.00	0.00	0.00	14579.68	0.00	0.00
8	4902.09	0.00	0.00	21917.81	0.00	0.00	0.00	0.00	0.00	26819.90	0.00	0.00
9	552016.90	0.00	0.00	169744.11	39166.70	0.00	0.00	0.00	0.00	721761.01	39166.70	0.00
10	1499.02	0.00	0.00	0.00	492.00	0.00	0.00	0.00	0.00	1499.02	492.00	0.00
Total	568405.78	889.57	639.35	203507.44	40304.17	284.07	0.00	0.00	0.64	771913.22	41193.74	924.07

c) Diversions by Type - All Facilities

Water-Use Categ.	NEW YORK		ONTARIO		PENNSYLVANIA		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	-12201.11	0.00	0.00	0.00	-12201.11	0.00
10	1499.02	0.00	-2165.48	0.00	0.00	0.00	-666.46	0.00
Total	1499.02	0.00	-14366.59	0.00	0.00	0.00	-12867.57	0.00

a) Withdrawals, Diversions and Consumptive Use - Principal Facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	NEW YORK			ONTARIO			PENNSYLVANIA			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	0.00	0.00	0.00	2957.65	0.00	443.66	0.00	0.00	0.00	2957.65	0.00	443.66
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	3451.20	0.00	57.80	0.00	0.00	0.00	3451.20	0.00	57.80
7	8524.71	0.00	0.00	6054.97	0.00	54.59	0.00	0.00	0.00	14579.68	0.00	54.59
8	4902.09	0.00	0.00	21917.81	0.00	197.26	0.00	0.00	0.00	26819.90	0.00	197.26
9	187108.40	0.00	0.00	208910.81	-12201.11	0.00	0.00	0.00	0.00	396019.21	-12201.11	0.00
10	1499.02	0.00	0.00	492.00	-2165.48	0.00	0.00	0.00	0.00	1991.02	-2165.48	0.00
Total	202034.22	0.00	0.00	243784.44	-14366.59	753.31	0.00	0.00	0.00	445818.66	-14366.59	753.31

b) Withdrawals by Source - Principal Facilities

Water-Use Categ.	NEW YORK			ONTARIO			PENNSYLVANIA			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	0.00	0.00	2757.95	136.33	63.37	0.00	0.00	0.00	2757.95	136.33	63.37
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	3031.30	413.90	6.00	0.00	0.00	0.00	3031.30	413.90	6.00
7	8524.71	0.00	0.00	6054.97	0.00	0.00	0.00	0.00	0.00	14579.68	0.00	0.00
8	4902.09	0.00	0.00	21917.81	0.00	0.00	0.00	0.00	0.00	26819.90	0.00	0.00
9	187108.40	0.00	0.00	169744.11	39166.70	0.00	0.00	0.00	0.00	356852.51	39166.70	0.00
10	1499.02	0.00	0.00	492.00	492.00	0.00	0.00	0.00	0.00	1499.02	492.00	0.00
Total	202034.22	0.00	0.00	203506.14	40208.93	69.37	0.00	0.00	0.00	405540.36	40208.93	69.37

c) Diversions by Type - Principal Facilities

Water-Use Categ.	NEW YORK		ONTARIO		PENNSYLVANIA		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	-12201.11	0.00	0.00	0.00	-12201.11	0.00
10	0.00	0.00	-2165.48	0.00	0.00	0.00	-2165.48	0.00
Total	0.00	0.00	-14366.59	0.00	0.00	0.00	-14366.59	0.00

a) Withdrawals, Diversions and Consumptive Use - All Facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	NEW YORK			ONTARIO			QUEBEC			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	476.96	0.00	47.70	574.97	0.00	86.25	5314.00	0.00	531.00	6365.93	0.00	664.95
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	340.69	0.00	34.07	127.43	0.00	19.12	271.00	0.00	27.00	739.12	0.00	80.19
4	4.16	0.00	0.42	19.73	0.00	15.38	13.30	0.00	11.97	37.19	0.00	27.77
5	11.36	0.00	9.08	36.12	0.00	28.89	88.10	0.00	70.48	135.58	0.00	108.45
6	276.33	0.00	27.63	635.60	0.00	32.00	475.00	0.00	41.90	1386.93	0.00	101.53
7	0.00	0.00	0.00	0.00	0.00	0.00	178.00	0.00	0.00	178.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	538696.09	0.00	0.00	628153.50	0.00	0.00	1075939.0	0.00	0.00	2242788.6	0.00	0.00
10	635.95	635.95	0.00	106.00	0.00	0.00	0.00	0.00	0.00	741.95	635.95	0.00
Total	540441.54	635.95	118.90	629653.35	0.00	181.64	1082278.4	0.00	682.35	2252373.3	635.95	982.89

b) Withdrawals by Source - All Facilities

Water-Use Categ.	NEW YORK			ONTARIO			QUEBEC			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	382.33	0.00	94.63	144.38	412.01	18.58	3790.00	1524.00	0.00	4316.71	1936.01	113.21
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	193.06	75.71	71.92	0.00	0.00	127.43	0.00	0.00	271.00	193.06	75.71	470.35
4	3.79	0.00	0.38	0.00	14.70	5.03	0.00	0.00	13.30	3.79	14.70	18.71
5	3.79	0.00	7.57	0.00	0.00	36.12	0.00	0.00	88.10	3.79	0.00	131.79
6	257.41	0.00	18.93	501.90	113.50	20.20	0.00	475.00	0.00	759.31	588.50	39.13
7	0.00	0.00	0.00	0.00	0.00	0.00	148.00	30.00	0.00	148.00	30.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	538696.09	0.00	0.00	295660.80	332492.70	0.00	616896.00	459043.00	0.00	1451252.9	791535.70	0.00
10	635.95	0.00	0.00	0.00	106.00	0.00	0.00	0.00	0.00	635.95	106.00	0.00
Total	540172.40	75.71	193.43	296307.08	333138.91	207.36	620834.00	461072.00	372.40	1457313.5	794286.62	773.19

c) Diversions by Type - All Facilities

Water-Use Categ.	NEW YORK		ONTARIO		QUEBEC		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	635.95	0.00	0.00	0.00	0.00	0.00	635.95	0.00
Total	635.95	0.00	0.00	0.00	0.00	0.00	635.95	0.00

a) Withdrawals, Diversions and Consumptive Use - Principal Facilities

UNITS: ML/d
YEAR OF DATA: 1991

Water-Use Categ.	NEW YORK			ONTARIO			QUEBEC			TOTAL		
	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.	Withdr.	Diver.	Consum.
1	0.00	0.00	0.00	571.22	0.00	85.68	5300.00	0.00	530.00	5871.22	0.00	615.68
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	184.00	0.00	18.00	184.00	0.00	18.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	629.80	0.00	31.20	473.00	0.00	41.80	1102.80	0.00	73.00
7	0.00	0.00	0.00	0.00	0.00	0.00	178.00	0.00	0.00	178.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	321448.36	0.00	0.00	628153.50	0.00	0.00	1075939.0	0.00	0.00	2025540.9	0.00	0.00
10	635.95	635.95	0.00	106.00	0.00	0.00	0.00	0.00	0.00	741.95	635.95	0.00
Total	322084.31	635.95	0.00	629460.52	0.00	116.88	1082074.0	0.00	589.80	2033618.8	635.95	706.68

b) Withdrawals by Source - Principal Facilities

Water-Use Categ.	NEW YORK			ONTARIO			QUEBEC			TOTAL		
	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW	GLSW	OSW	GW
1	0.00	0.00	0.00	144.38	410.95	15.89	3790.00	1510.00	0.00	3934.38	1920.95	15.89
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	184.00	0.00	0.00	184.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	501.60	111.00	17.20	0.00	473.00	0.00	501.60	584.00	17.20
7	0.00	0.00	0.00	0.00	0.00	0.00	148.00	30.00	0.00	148.00	30.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	321448.36	0.00	0.00	295660.80	332492.70	0.00	616896.00	459043.00	0.00	1234005.2	791535.70	0.00
10	635.95	0.00	0.00	0.00	106.00	0.00	0.00	0.00	0.00	635.95	106.00	0.00
Total	322084.31	0.00	0.00	296306.78	333120.65	33.09	620834.00	461056.00	184.00	1239225.1	794176.65	217.09

c) Diversions by Type - Principal Facilities

Water-Use Categ.	NEW YORK		ONTARIO		QUEBEC		TOTAL	
	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin	Intrabasin	Interbasin
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	635.95	0.00	0.00	0.00	0.00	0.00	635.95	0.00
Total	635.95	0.00	0.00	0.00	0.00	0.00	635.95	0.00

WATER-USE CATEGORY REPORT - Public Supply

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: ML/d
YEAR OF DATA: 1991

Basin	All Facilities								Principal Facilities							
	Withdrawals				Diversions			Consumptive Use	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	208.95	21.05	24.66	254.66	0.00	0.00	0.00	47.69	207.44	20.45	23.52	251.41	0.00	0.00	0.00	47.28
Lake Michigan	5635.21	90.85	1032.24	6758.30	0.00	4352.18	4352.18	368.02	5635.21	90.85	1029.78	6755.84	0.00	4352.18	4352.18	367.64
Lake Huron	245.35	145.15	178.22	568.72	168.34	0.00	168.34	85.32	244.02	124.43	154.45	522.90	168.34	0.00	168.34	78.42
Lake Erie	2967.69	761.56	453.52	4182.77	-168.34	0.83	-167.51	579.60	2360.89	584.97	439.92	3385.78	-168.34	0.83	-167.51	499.20
Lake Ontario	3121.65	664.33	192.63	3978.61	0.00	0.00	0.00	546.42	2757.95	136.33	63.37	2957.65	0.00	0.00	0.00	443.66
St. Lawrence River	4316.71	1936.01	113.21	6365.93	0.00	0.00	0.00	664.95	3934.38	1920.95	15.89	5871.22	0.00	0.00	0.00	615.68
Total	16495.55	3618.95	1994.49	26742.32*	0.00	4353.02	4353.02	2757.58*	15139.89	2877.98	1726.93	19744.80	0.00	4353.02	4353.02	2051.88

b) Water-Use by Jurisdiction - All Basins

Jurisdiction	All Facilities								Principal Facilities							
	Withdrawals				Diversions			Consumptive Use	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	4359.91	0.00	0.00	4359.91	0.00	4359.91	4359.91	0.00	4359.91	0.00	0.00	4359.91	0.00	4359.91	4359.91	0.00
Indiana	339.93	123.25	236.21	699.39	0.00	-11.51	-11.51	104.89	339.93	123.25	232.99	696.17	0.00	-11.51	-11.51	104.40
Michigan	0.00	0.00	0.00	4633.33*	0.00	0.00	0.00	465.59*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	127.38	11.28	17.49	156.15	0.00	0.00	0.00	32.82	127.27	11.28	16.35	154.90	0.00	0.00	0.00	32.52
New York	1351.39	700.30	211.98	2263.67	0.00	0.00	0.00	226.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ohio	1792.65	388.57	133.02	2314.24	0.00	0.83	0.83	347.08	1791.51	386.53	127.34	2305.38	0.00	0.83	0.83	345.80
Ontario	3618.74	776.57	569.59	4964.90	0.00	0.00	0.00	744.77	3616.85	752.06	526.47	4895.38	0.00	0.00	0.00	734.31
Pennsylvania	161.64	4.13	9.69	175.45	0.00	0.00	0.00	17.53	161.64	4.01	7.27	172.92	0.00	0.00	0.00	17.30
Quebec	3790.00	1524.00	0.00	5314.00	0.00	0.00	0.00	531.00	3790.00	1510.00	0.00	5300.00	0.00	0.00	0.00	530.00
Wisconsin	953.92	90.85	816.51	1861.28	0.00	3.79	3.79	287.53	952.78	90.85	816.51	1860.14	0.00	3.79	3.79	287.53
Total	16495.55	3618.95	1994.49	26742.32*	0.00	4353.02	4353.02	2757.58*	15139.89	2877.98	1726.93	19744.80	0.00	4353.02	4353.02	2051.88

*The total presented is larger than the sum of water use categories. This is due to the addition of state-wide data from Michigan. Michigan's withdrawals and consumptive uses for this category cannot presently be reported by individual sub-basin or water withdrawal type.

a) Water-Use by Basin - All Jurisdictions

UNITS: ML/d
YEAR OF DATA: 1991

Basin	All Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	5.00	1.97	6.79	13.76	0.00	0.00	0.00	1.56
Lake Michigan	111.63	116.48	159.93	388.04	0.00	20.37	20.37	41.94
Lake Huron	0.00	0.00	114.21	114.21	0.00	0.00	0.00	19.12
Lake Erie	37.85	38.04	600.86	676.76	0.00	0.00	0.00	86.36
Lake Ontario	382.33	363.40	487.25	1232.97	0.00	0.00	0.00	130.06
St. Lawrence River	193.06	75.71	470.35	739.12	0.00	0.00	0.00	80.19
Total	729.86	595.59	1839.40	3164.86	0.00	20.37	20.37	359.23

	Principal Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
	5.00	1.89	0.00	6.89	0.00	0.00	0.00	0.57
	111.63	116.36	13.97	241.96	0.00	20.37	20.37	19.53
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.19	6.13	6.32	0.00	0.00	0.00	0.95
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	184.00	184.00	0.00	0.00	0.00	18.00
Total	116.63	118.45	204.10	439.17	0.00	20.37	20.37	39.05

b) Water-Use by Jurisdiction - All Basins

Jurisdiction	All Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	111.63	0.08	0.42	112.12	0.00	20.37	20.37	0.00
Indiana	0.00	116.59	112.27	228.87	0.00	0.00	0.00	34.33
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	5.00	1.97	0.11	7.08	0.00	0.00	0.00	0.57
New York	613.23	476.96	643.52	1733.71	0.00	0.00	0.00	173.37
Ohio	0.00	0.00	228.22	228.22	0.00	0.00	0.00	34.22
Ontario	0.00	0.00	496.38	496.38	0.00	0.00	0.00	76.45
Pennsylvania	0.00	0.00	7.65	7.65	0.00	0.00	0.00	0.76
Quebec	0.00	0.00	271.00	271.00	0.00	0.00	0.00	27.00
Wisconsin	0.00	0.00	79.83	79.83	0.00	0.00	0.00	12.53
Total	729.86	595.59	1839.40	3164.86	0.00	20.37	20.37	359.23

	Principal Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
	111.63	0.00	0.00	111.63	0.00	20.37	20.37	0.00
	0.00	116.55	14.46	131.01	0.00	0.00	0.00	19.65
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.00	1.89	0.00	6.89	0.00	0.00	0.00	0.57
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	5.64	5.64	0.00	0.00	0.00	0.83
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	184.00	184.00	0.00	0.00	0.00	18.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	116.63	118.45	204.10	439.17	0.00	20.37	20.37	39.05

WATER-USE CATEGORY REPORT - Self-supply - irrigation

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: ML/d
YEAR OF DATA: 1991

Basin	All Facilities								Principal Facilities									
	Withdrawals				Diversions				Consumptive Use	Withdrawals				Diversions				Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	GLSW		OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL			
Lake Superior	0.00	2.51	0.21	2.72	0.00	0.00	0.00	2.29	0.00	1.36	0.00	1.36	0.00	0.00	0.00	1.21		
Lake Michigan	0.00	35.13	117.61	152.74	0.00	0.00	0.00	104.10	0.00	34.14	94.29	128.44	0.00	0.00	0.00	109.89		
Lake Huron	0.00	76.30	23.05	99.35	0.00	0.00	0.00	77.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Lake Erie	4.54	400.41	151.37	556.32	0.00	0.00	0.00	439.19	0.00	37.25	13.97	51.22	0.00	0.00	0.00	46.52		
Lake Ontario	26.50	80.41	31.89	138.79	0.00	0.00	0.00	87.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
St. Lawrence River	3.79	14.70	18.71	37.19	0.00	0.00	0.00	27.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Total	34.83	609.45	342.83	1884.25*	0.00	0.00	0.00	1590.22*	0.00	72.76	108.26	181.02	0.00	0.00	0.00	157.62		

b) Water-Use by Jurisdiction - All Basins

Jurisdiction	All Facilities								Principal Facilities									
	Withdrawals				Diversions				Consumptive Use	Withdrawals				Diversions				Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	GLSW		OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL			
Illinois	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Indiana	0.00	37.59	77.49	115.08	0.00	0.00	0.00	103.57	0.00	36.42	75.59	112.01	0.00	0.00	0.00	100.84		
Michigan	0.00	0.00	0.00	897.14*	0.00	0.00	0.00	851.71*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Minnesota	0.00	2.01	0.00	2.01	0.00	0.00	0.00	1.74	0.00	1.36	0.00	1.36	0.00	0.00	0.00	1.21		
New York	34.83	0.00	5.68	40.50	0.00	0.00	0.00	4.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Ohio	0.00	39.67	16.09	55.76	0.00	0.00	0.00	50.19	0.00	27.78	7.34	35.13	0.00	0.00	0.00	31.61		
Ontario	0.00	522.01	182.62	704.63	0.00	0.00	0.00	549.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Pennsylvania	0.00	8.18	2.99	11.17	0.00	0.00	0.00	10.56	0.00	7.19	2.99	10.18	0.00	0.00	0.00	9.58		
Quebec	0.00	0.00	13.30	13.30	0.00	0.00	0.00	11.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Wisconsin	0.00	0.00	44.67	44.67	0.00	0.00	0.00	6.81	0.00	0.00	22.33	22.33	0.00	0.00	0.00	14.38		
Total	34.83	609.45	342.83	1884.25*	0.00	0.00	0.00	1590.22*	0.00	72.76	108.26	181.02	0.00	0.00	0.00	157.62		

*The total presented is larger than the sum of water use categories. This is due to the addition of state-wide data from Michigan. Michigan's withdrawals and consumptive uses for this category cannot presently be reported by individual sub-basin or water withdrawal type.

WATER-USE CATEGORY REPORT - Self-supply - livestock

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: ML/d
YEAR OF DATA: 1991

Basin	All Facilities				Diversions			Consumptive Use
	Withdrawals				Intrabasin	Interbasin	TOTAL	
	GLSW	OSW	GW	TOTAL				
Lake Superior	2.46	8.33	2.71	13.50	0.00	0.00	0.00	0.96
Lake Michigan	0.00	17.03	107.51	124.54	0.00	0.00	0.00	36.60
Lake Huron	0.00	0.00	63.65	63.65	0.00	0.00	0.00	50.92
Lake Erie	1.89	7.91	115.30	125.10	0.00	0.00	0.00	100.02
Lake Ontario	9.46	0.00	48.48	57.95	0.00	0.00	0.00	39.47
St. Lawrence River	3.79	0.00	131.79	135.58	0.00	0.00	0.00	108.45
Total	17.60	33.27	469.44	520.32	0.00	0.00	0.00	336.44

	Principal Facilities				Diversions			Consumptive Use
	Withdrawals				Intrabasin	Interbasin	TOTAL	
	GLSW	OSW	GW	TOTAL				
	2.46	0.00	0.00	2.46	0.00	0.00	0.00	0.00
	0.00	5.68	5.34	11.02	0.00	0.00	0.00	8.82
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	1.85	0.00	1.85	0.00	0.00	0.00	1.48
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.46	7.53	5.34	15.33	0.00	0.00	0.00	10.30

b) Water-Use by Jurisdiction - All Basins

Jurisdiction	All Facilities				Diversions			Consumptive Use
	Withdrawals				Intrabasin	Interbasin	TOTAL	
	GLSW	OSW	GW	TOTAL				
Illinois	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Indiana	0.00	5.68	27.29	32.97	0.00	0.00	0.00	26.38
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	2.46	8.33	1.51	12.30	0.00	0.00	0.00	0.00
New York	15.14	0.00	25.74	40.88	0.00	0.00	0.00	25.74
Ohio	0.00	7.91	40.39	48.30	0.00	0.00	0.00	38.65
Ontario	0.00	0.00	199.34	199.34	0.00	0.00	0.00	159.47
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	0.00	0.00	88.10	88.10	0.00	0.00	0.00	70.48
Wisconsin	0.00	11.36	87.06	98.42	0.00	0.00	0.00	15.71
Total	17.60	33.27	469.44	520.32	0.00	0.00	0.00	336.44

	Principal Facilities				Diversions			Consumptive Use
	Withdrawals				Intrabasin	Interbasin	TOTAL	
	GLSW	OSW	GW	TOTAL				
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	5.68	5.34	11.02	0.00	0.00	0.00	8.82
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2.46	0.00	0.00	2.46	0.00	0.00	0.00	0.00
	0.00	1.85	0.00	1.85	0.00	0.00	0.00	1.48
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.46	7.53	5.34	15.33	0.00	0.00	0.00	10.30

WATER-USE CATEGORY REPORT - Self-supply - Industrial (manufacturing and mining)

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: ML/d
YEAR OF DATA: 1991

Basin	All Facilities								Principal Facilities									
	Withdrawals				Diversions				Consumptive Use	Withdrawals				Diversions				Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	GLSW		OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL			
Lake Superior	1116.40	369.12	8.92	1494.43	0.00	0.00	0.00	254.82	1116.30	368.07	8.20	1492.57	0.00	0.00	0.00	254.56		
Lake Michigan	6391.38	1414.38	144.38	7950.13	0.00	18.28	18.28	614.56	6391.38	1300.74	90.55	7782.67	0.00	18.28	18.28	596.62		
Lake Huron	2736.00	301.30	49.80	3087.10	0.00	0.00	0.00	68.20	2735.90	298.20	47.20	3081.30	0.00	0.00	0.00	67.40		
Lake Erie	2429.38	753.90	177.21	3360.48	0.00	0.00	0.00	252.07	2220.88	741.64	156.81	3119.33	0.00	0.00	0.00	227.65		
Lake Ontario	3713.67	426.90	163.82	4304.39	0.00	0.00	0.00	144.28	3031.30	413.90	6.00	3451.20	0.00	0.00	0.00	57.80		
St.Lawrence River	759.31	588.50	39.13	1386.93	0.00	0.00	0.00	101.53	501.60	584.00	17.20	1102.80	0.00	0.00	0.00	73.00		
Total	17146.14	3854.09	583.24	26572.62*	0.00	18.28	18.28	1935.13*	15997.36	3706.55	325.96	20029.86	0.00	18.28	18.28	1277.03		

b) Water-Use by Jurisdiction - All Basins

Jurisdiction	All Facilities								Principal Facilities									
	Withdrawals				Diversions				Consumptive Use	Withdrawals				Diversions				Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	GLSW		OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL			
Illinois	22.64	0.00	0.00	22.64	0.00	18.28	18.28	1.55	22.64	0.00	0.00	22.64	0.00	18.28	18.28	1.55		
Indiana	6361.17	78.32	96.11	6535.60	0.00	0.00	0.00	392.17	6361.17	78.21	92.59	6531.97	0.00	0.00	0.00	391.94		
Michigan	0.00	0.00	0.00	4989.16*	0.00	0.00	0.00	499.67*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Minnesota	465.30	327.82	0.42	793.53	0.00	0.00	0.00	227.62	465.30	326.87	0.00	792.17	0.00	0.00	0.00	227.46		
New York	1146.98	0.00	183.21	1330.19	0.00	0.00	0.00	132.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Ohio	194.27	599.04	118.60	911.90	0.00	0.00	0.00	91.19	194.27	590.56	115.61	900.43	0.00	0.00	0.00	90.02		
Ontario	8767.50	986.30	127.10	9880.90	0.00	0.00	0.00	284.70	8765.70	964.20	111.70	9841.60	0.00	0.00	0.00	278.70		
Pennsylvania	180.71	5.94	1.02	187.68	0.00	0.00	0.00	39.37	180.71	5.60	0.38	186.70	0.00	0.00	0.00	39.25		
Quebec	0.00	475.00	0.00	475.00	0.00	0.00	0.00	41.90	0.00	473.00	0.00	473.00	0.00	0.00	0.00	41.80		
Wisconsin	7.57	1381.67	56.78	1446.02	0.00	0.00	0.00	224.10	7.57	1268.11	5.68	1281.36	0.00	0.00	0.00	206.30		
Total	17146.14	3854.09	583.24	26572.62*	0.00	18.28	18.28	1935.13*	15997.36	3706.55	325.96	20029.86	0.00	18.28	18.28	1277.03		

*The total presented is larger than the sum of water use categories. This is due to the addition of state-wide data from Michigan. Michigan's withdrawals and consumptive uses for this category cannot presently be reported by individual sub-basin or water withdrawal type.

WATER-USE CATEGORY REPORT - Self-supply - thermoelectric power - fossil-fuel plants

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: ML/d
YEAR OF DATA: 1991

All Facilities									Principal Facilities							
Basin	Withdrawals				Diversions			Consumptive Use	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	2574.99	442.89	0.04	3017.92	0.00	0.00	0.00	68.89	1587.87	442.55	0.00	2030.42	0.00	0.00	0.00	56.06
Lake Michigan	17507.76	505.12	16.54	18029.43	0.00	0.00	0.00	1329.93	13854.86	34.07	4.88	13893.81	0.00	0.00	0.00	1275.72
Lake Huron	3277.04	0.11	0.00	3277.16	0.00	0.00	0.00	36.19	807.30	0.00	0.00	807.30	0.00	0.00	0.00	4.09
Lake Erie	37658.13	328.72	1.02	37987.88	0.00	0.00	0.00	309.91	21680.16	328.38	1.02	22009.56	0.00	0.00	0.00	98.42
Lake Ontario	14579.68	0.00	0.00	14579.68	0.00	0.00	0.00	84.87	14579.68	0.00	0.00	14579.68	0.00	0.00	0.00	54.59
St.Lawrence River	148.00	30.00	0.00	178.00	0.00	0.00	0.00	0.00	148.00	30.00	0.00	178.00	0.00	0.00	0.00	0.00
Total	75745.61	1306.85	17.60	77070.06	0.00	0.00	0.00	1829.80	52657.87	835.00	5.91	53498.77	0.00	0.00	0.00	1488.88

b) Water-Use by Jurisdiction - All Basins

All Facilities									Principal Facilities							
Jurisdiction	Withdrawals				Diversions			Consumptive Use	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	2548.63	0.00	0.00	2548.63	0.00	0.00	0.00	0.00	2548.63	0.00	0.00	2548.63	0.00	0.00	0.00	0.00
Indiana	3572.66	0.00	5.91	3578.56	0.00	0.00	0.00	71.62	3572.66	0.00	5.91	3578.56	0.00	0.00	0.00	71.62
Michigan	23087.74	471.51	8.63	23567.88	0.00	0.00	0.00	306.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	145.13	442.89	0.04	588.06	0.00	0.00	0.00	11.77	145.13	442.55	0.00	587.68	0.00	0.00	0.00	11.77
New York	10353.06	0.00	0.00	10353.06	0.00	0.00	0.00	34.07	10353.06	0.00	0.00	10353.06	0.00	0.00	0.00	0.00
Ohio	9012.69	328.38	0.00	9341.07	0.00	0.00	0.00	0.83	9012.69	328.38	0.00	9341.07	0.00	0.00	0.00	0.83
Ontario	18935.93	0.00	0.00	18935.93	0.00	0.00	0.00	168.34	18935.93	0.00	0.00	18935.93	0.00	0.00	0.00	168.34
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	148.00	30.00	0.00	178.00	0.00	0.00	0.00	0.00	148.00	30.00	0.00	178.00	0.00	0.00	0.00	0.00
Wisconsin	7941.76	34.07	3.03	7978.86	0.00	0.00	0.00	1236.78	7941.76	34.07	0.00	7975.83	0.00	0.00	0.00	1235.36
Total	75745.61	1306.85	17.60	77070.06	0.00	0.00	0.00	1829.80	52657.87	835.00	5.91	53498.77	0.00	0.00	0.00	1487.93

WATER-USE CATEGORY REPORT - Self-supply - thermoelectric power - nuclear plants

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: ML/d
YEAR OF DATA: 1991

Basin	All Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lake Michigan	20240.97	0.00	0.00	20240.97	0.00	0.00	0.00	161.64
Lake Huron	25205.48	0.00	0.00	25205.48	0.00	0.00	0.00	226.85
Lake Erie	550.21	0.00	0.00	550.21	0.00	0.00	0.00	94.45
Lake Ontario	26819.90	0.00	0.00	26819.90	0.00	0.00	0.00	208.62
St.Lawrence River	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	72816.56	0.00	0.00	72816.56	0.00	0.00	0.00	691.55

	Principal Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12059.63	0.00	0.00	12059.63	0.00	0.00	0.00	55.27
	25205.48	0.00	0.00	25205.48	0.00	0.00	0.00	226.85
	550.21	0.00	0.00	550.21	0.00	0.00	0.00	94.45
	26819.90	0.00	0.00	26819.90	0.00	0.00	0.00	197.26
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	64635.22	0.00	0.00	64635.22	0.00	0.00	0.00	573.82

b) Water-Use by Jurisdiction - All Basins

Jurisdiction	All Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	6533.71	0.00	0.00	6533.71	0.00	0.00	0.00	0.00
Indiana	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Michigan	8181.34	0.00	0.00	8181.34	0.00	0.00	0.00	106.37
Minnesota	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
New York	4902.09	0.00	0.00	4902.09	0.00	0.00	0.00	11.36
Ohio	550.21	0.00	0.00	550.21	0.00	0.00	0.00	94.45
Ontario	47123.29	0.00	0.00	47123.29	0.00	0.00	0.00	424.11
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wisconsin	5525.92	0.00	0.00	5525.92	0.00	0.00	0.00	55.27
Total	72816.56	0.00	0.00	72816.56	0.00	0.00	0.00	691.55

	Principal Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
	6533.71	0.00	0.00	6533.71	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4902.09	0.00	0.00	4902.09	0.00	0.00	0.00	0.00
	550.21	0.00	0.00	550.21	0.00	0.00	0.00	94.45
	47123.29	0.00	0.00	47123.29	0.00	0.00	0.00	424.11
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5525.92	0.00	0.00	5525.92	0.00	0.00	0.00	55.27
Total	64635.22	0.00	0.00	64635.22	0.00	0.00	0.00	573.82

WATER-USE CATEGORY REPORT - Self-supply - hydroelectric power

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: ML/d
YEAR OF DATA: 1991

Basin	All Facilities								Principal Facilities							
	Withdrawals				Diversions			Consumptive Use	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	0.00	159563.75	0.00	159563.75	0.00	-9735.55	-9735.55	0.00	0.00	159563.75	0.00	159563.75	0.00	-9735.55	-9735.55	0.00
Lake Michigan	0.00	16455.16	0.00	16455.16	0.00	0.00	0.00	0.00	0.00	16455.16	0.00	16455.16	0.00	0.00	0.00	0.00
Lake Huron	89906.80	79895.70	0.00	169802.50	0.00	0.00	0.00	0.00	89906.80	79895.70	0.00	169802.50	0.00	0.00	0.00	0.00
Lake Erie	14320.93	0.00	0.00	14320.93	12201.11	0.00	12201.11	0.00	14320.93	0.00	0.00	14320.93	12201.11	0.00	12201.11	0.00
Lake Ontario	721761.01	39166.70	0.00	760927.71	-12201.11	0.00	-12201.11	0.00	356852.51	39166.70	0.00	396019.21	-12201.11	0.00	-12201.11	0.00
St.Lawrence River	1451252.89	791535.70	0.00	2242788.59	0.00	0.00	0.00	0.00	1234005.16	791535.70	0.00	2025540.86	0.00	0.00	0.00	0.00
Total	2277241.64	1086617.01	0.00	3363858.64	0.00	-9735.55	-9735.55	0.00	1695085.40	1086617.01	0.00	2781702.41	0.00	-9735.55	-9735.55	0.00

b) Water-Use by Jurisdiction - All Basins

Jurisdiction	All Facilities								Principal Facilities							
	Withdrawals				Diversions			Consumptive Use	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL		GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Indiana	0.00	141.08	0.00	141.08	0.00	0.00	0.00	0.00	0.00	141.08	0.00	141.08	0.00	0.00	0.00	0.00
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	0.00	16602.75	0.00	16602.75	0.00	0.00	0.00	0.00	0.00	16602.75	0.00	16602.75	0.00	0.00	0.00	0.00
New York	1092832.82	0.00	0.00	1092832.82	0.00	0.00	0.00	0.00	510676.58	0.00	0.00	510676.58	0.00	0.00	0.00	0.00
Ohio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ontario	567512.82	593958.77	0.00	1161471.59	0.00	-9735.55	-9735.55	0.00	567512.82	593958.77	0.00	1161471.59	0.00	-9735.55	-9735.55	0.00
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	616896.00	459043.00	0.00	1075939.00	0.00	0.00	0.00	0.00	616896.00	459043.00	0.00	1075939.00	0.00	0.00	0.00	0.00
Wisconsin	0.00	16871.40	0.00	16871.40	0.00	0.00	0.00	0.00	0.00	16871.40	0.00	16871.40	0.00	0.00	0.00	0.00
Total	2277241.64	1086617.01	0.00	3363858.64	0.00	-9735.55	-9735.55	0.00	1695085.40	1086617.01	0.00	2781702.41	0.00	-9735.55	-9735.55	0.00

WATER-USE CATEGORY REPORT - Other (navigation, sanitation, environmental)

DATE: 01/22/93

a) Water-Use by Basin - All Jurisdictions

UNITS: ML/d
YEAR OF DATA: 1991

Basin	All Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Lake Superior	0.00	0.00	0.76	0.76	0.00	0.00	0.00	0.00
Lake Michigan	1156.14	0.38	0.49	1157.01	0.00	1156.14	1156.14	0.08
Lake Huron	0.00	152.00	0.00	152.00	0.00	0.00	0.00	0.00
Lake Erie	2169.98	11.17	11.36	2192.51	2165.48	-40.92	2124.56	0.00
Lake Ontario	1499.02	492.00	0.00	1991.02	-666.46	0.00	-666.46	0.00
St. Lawrence River	635.95	106.00	0.00	741.95	635.95	0.00	635.95	0.00
Total	5461.08	761.55	12.61	6235.24	2134.96	1115.22	3250.18	0.08

	Principal Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
	0.00	0.00	0.49	0.49	0.00	0.00	0.00	0.00
	1156.14	0.23	0.15	1156.51	0.00	1156.14	1156.14	0.04
	0.00	152.00	0.00	152.00	0.00	0.00	0.00	0.00
	2169.98	11.17	10.30	2191.45	2165.48	-40.92	2124.56	0.00
	1499.02	492.00	0.00	1991.02	-2165.48	0.00	-2165.48	0.00
	635.95	106.00	0.00	741.95	635.95	0.00	635.95	0.00
Total	5461.08	761.39	10.94	6233.42	635.95	1115.22	1751.16	0.04

b) Water-Use by Jurisdiction - All Basins

Jurisdiction	All Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
Illinois	1156.14	0.00	0.00	1156.14	0.00	1156.14	1156.14	0.00
Indiana	0.00	0.38	0.49	0.87	0.00	0.00	0.00	0.08
Michigan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minnesota	0.00	0.00	0.76	0.76	0.00	0.00	0.00	0.00
New York	2134.96	0.00	0.00	2134.96	2134.96	0.00	2134.96	0.00
Ohio	4.50	11.17	11.36	27.03	0.00	-40.92	-40.92	0.00
Ontario	2165.48	750.00	0.00	2915.48	0.00	0.00	0.00	0.00
Pennsylvania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quebec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wisconsin	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	5461.08	761.55	12.61	6235.24	2134.96	1115.22	3250.18	0.08

	Principal Facilities							
	Withdrawals				Diversions			Consumptive Use
	GLSW	OSW	GW	TOTAL	Intrabasin	Interbasin	TOTAL	
	1156.14	0.00	0.00	1156.14	0.00	1156.14	1156.14	0.00
	0.00	0.23	0.15	0.38	0.00	0.00	0.00	0.04
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.49	0.49	0.00	0.00	0.00	0.00
	2134.96	0.00	0.00	2134.96	635.95	0.00	635.95	0.00
	4.50	11.17	10.30	25.97	0.00	-40.92	-40.92	0.00
	2165.48	750.00	0.00	2915.48	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	5461.08	761.39	10.94	6233.42	635.95	1115.22	1751.16	0.04

Appendix A-3

WATER USE COEFFICIENTS FOR SELF SUPPLY-LIVESTOCK

TABLE 3-1
STATE & PROVINCIAL WATER USE DATA SUMMARY: IRRIGATION & LIVESTOCK

<u>JURISDICTION</u>	<u>IRRIGATION</u>	<u>LIVESTOCK</u>
ILLINOIS	Weekly rainfall deficits and number of acres irrigated 1. State Water Survey (ILWS)	Fixed amount of H ₂ O used per head for each type of animal and population of each of six types. Pop. data obtained through census.
INDIANA	Mandatory registration/reporting for capacity exceeding 100,000 gal/day	Mandatory registration/reporting for capacity exceeding 100,000 gal/day Estimate non-registered Livestock Pop. X Water Consumption values. Consumption derived from several sources. Each source is based on different variables using a range for computation.
MICHIGAN	(Involves data collection and intermittent surveying) Sample populations from 1977 survey of irrigators used to project withdrawal amounts.	Livestock Pop. X Per Cap. Consump. Data supplied by MDA and MSU. Six categories represent 99% of all MI livestock.
MINNESOTA	Appropriation permits with monthly use reports. Permits required for all users withdrawing more than 10,000 gal/day or 1 mil. gal/year.	(No. of animals in each of 17 classes X Per Capita Water Use) Data supplied by U.S.G.S., MOA, U.S. Census Bureau
NEW YORK	(# acres irr. X amount H ₂ O applied in acre-feet). Figures derived by county values range 0.2-2.0 acre ft./acre. Values can be applied to Census data when only the # of acres irrigated is available.	(# animals by county X fixed consumption values) Livestock data obtained by U.S.G.S. from census.
OHIO	U.S.G.S. estimates irrigation water used and farm acreages. Data provided by OSU and Extension. Census of Agric. - Crop reporting estimates. Golf course - use average model to predict.	U.S.G.S. estimates: # of animals X Coefficient for each animal type.
ONTARIO	OMNR estimates using area irrigated (Statistics Canada Census data: 1985 most recent year) X calculated annual growing season soil moisture deficit. Permits required over 50,000 litres/day by OMOE.	OMNR estimates using annual OMAF livestock numbers and per animal withdrawal coefficients. Permits are not required for livestock watering.
PENNSYLVANIA	Calculated from # of acres irrigated times assumed application rate of 1/2 inch per week during freeze-free period minus six weeks. Estimates based on 1987 survey and census of agriculture data. Golf courses surveyed individually, not estimated.	Withdrawals estimated by # of livestock by county X per head withdrawal values. Data provided by PaDA and USDA.
QUEBEC	Estimated by Environment Quebec. No methods given. No permit required. Data acquired through survey.	Estimated by Environment Quebec. No methods given. No permit required. Data acquired through survey.
WISCONSIN	WDNR collects water use data on groundwater withdrawals exceeding 100,000 gal/day and all surface water withdrawals.	Withdrawals estimated by # of farm animals per county X standard consump. value for each type. Data provided by USDA.

TABLE 3-3
 WATER USE COEFFICIENTS FOR SELF SUPPLY - LIVESTOCK
 (Withdrawal Estimates per Animal by Jurisdiction - litres per day)

Self Supply Livestock	IL	IN	MI	MN	NY	OH	ONT	PA	QUE	WI
Dairy Cattle (milk cows)	132	57-114	45	69.6	39.7	132	132	132	75.7	
Beef Cattle	45	30-57	45	33	39.7	45	42	45	45	
Horse, Mule, Pony, Burro, Donkey	45		38	45	38		42	45		
Hogs, Pigs	15	7.5-20	11	9.8	7.5	15	11	15	15	
Sheep, Lamb	7.5	38-45	3.8	7.5	.19	7.5	5.7	7.5	7.5	
Chicken	.2	* 19-57	.11	L .23	L .25	.20	.19	.38	L .20	
L Laying		* (.57-98)	N .15	N .10				C .22		
N Non-Laying				C .11	C .13					
C Chicks				B 1.4	B .19					
B Broilers										
* Not Classified										
Turkey	.45		.45	.45	.30		.45	.38		
Goats				M .20			5.7	7.5		
M Milk goats				O 3.8						
O Other										
Ducks				.15						
Geese				.15						
Other Poultry				.15						
Mink				.038			.05			
Rabbits, Chinchillas				.19			2			
All Fowl								.1		