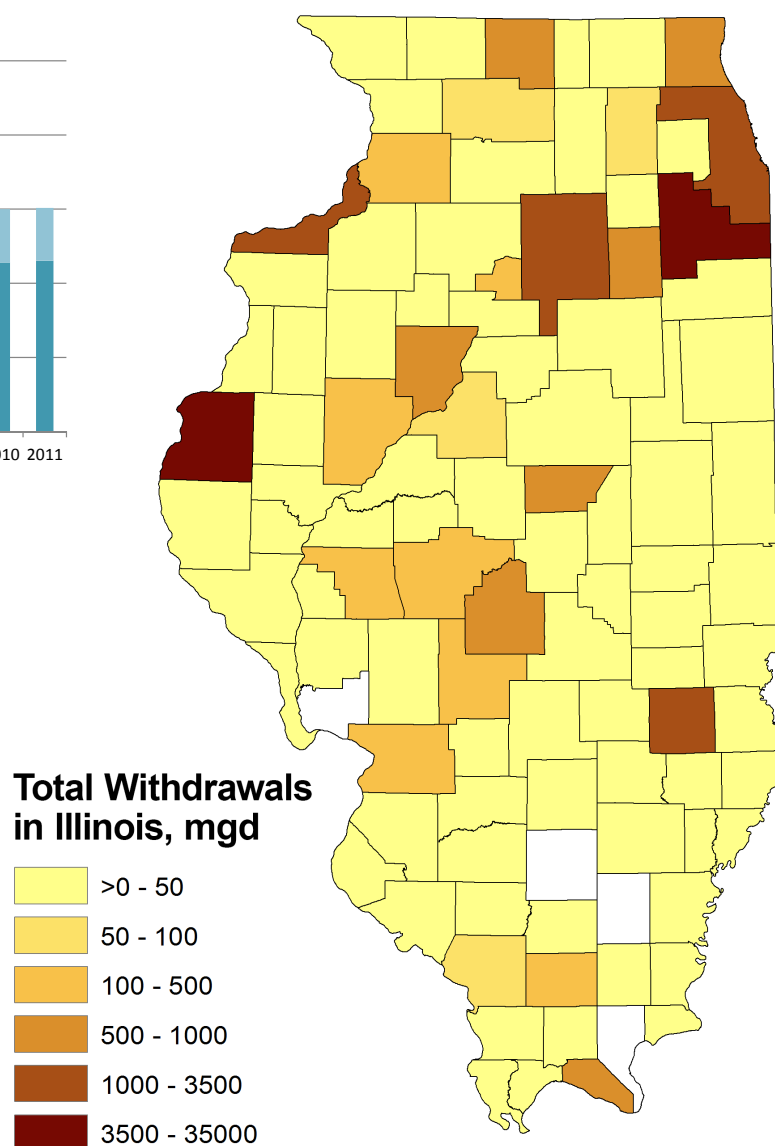
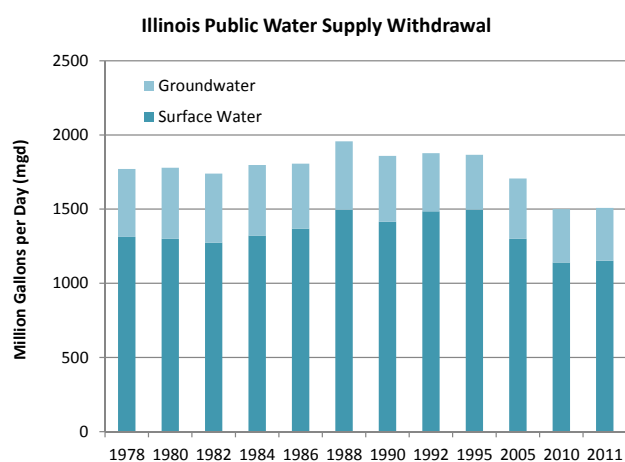


Circular 186

# Water Withdrawals in Illinois, 2011

Kenneth J. Hlinka, Steve Wilson, Cassia Smith, Greg Rogers, Karen Bridges,  
Scott Meyer, George Roadcap, Conor Healy, Tim Bryant



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# **Water Withdrawals in Illinois, 2011**

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## **Abstract**

This report summarizes data collected by the Illinois Water Inventory Program for calendar year 2011. Water use data are presented for public water supply and self-supplied industry facilities within Illinois. The data are further categorized by county, township, Illinois priority planning areas, and within two major Illinois withdrawal areas: Chicago and central Illinois.

Illinois water withdrawals during 2011 were 53,428.6 million gallons per day (mgd), of which groundwater supplied 513.4 mgd and surface water supplied 52,915.2 mgd. Public water supply (PWS) withdrew 1,508.3 mgd and self-supplied-industry (SSI) withdrew 51,920.3 mgd. Electric power generation is the largest water use in Illinois with 96.3 percent of the total water withdrawal. Excluding electric power withdrawals, 2011 groundwater use was 508.5 mgd, and surface water use was 1,489.8 mgd.

## **Introduction**

Illinois is considered a water-excess state. The state is mostly surrounded by fresh water with the Mississippi River on its western border, the Ohio and Wabash Rivers to the south and east, and Lake Michigan on the northeast. The large tributaries to these major water systems within the interior of Illinois are the Illinois, Kaskaskia, Rock, Sangamon, Big Muddy, Embarras, and Kankakee Rivers. The principal surface water resources in Illinois consist of both the bounding and internal surface waters. In addition, the state has abundant groundwater resources found within both local and regional aquifers, but these resources are finite and are not distributed uniformly.

The priority of the Illinois Water Inventory Program (IWIP) since 1979 has been to develop and maintain a database of high-capacity (greater than 75 gpm) water withdrawals by community water supply systems and self-supplied industrial-commercial facilities through an annual census. The long-term goals of IWIP, as the program moves forward, include accounting for all major uses of water in Illinois, either through an expanded census or by estimation.

## **Purpose and Scope**

The Illinois Water Inventory Program was initiated in 1979 to centralize our state's diverse array of water quantity information. Water supply planning in Illinois cannot succeed without a program to collect basic information on water withdrawals. Such data are fundamental to answering questions about rates, locations, and purposes of withdrawals and are essential for rational estimation of future withdrawal needs. The importance of such data collection was

confirmed when an amendment to the Water Use Act of 1983 (Illinois Public Act 096-0222) made the submission of public and self-supplied industrial and commercial withdrawals to IWIP mandatory beginning in 2010. One intention of the law was to encourage greater cooperation by facilities in submitting their annual reports. Inventory data are also used by state agencies and other professionals for resource-related research and studies involving water withdrawal, water use, and water returns. These data are also provided to and included in the U.S. Geological Survey's 5-year national water-use estimates publication series. This report provides an overview of water withdrawals by community water supply systems and self-supplied industrial-commercial facilities in Illinois during 2011. Estimates for non-community public water systems and rural water use, including agricultural irrigation, domestic, and livestock use, are not included in this report.

### **Previous Studies**

Since the early 1940s, the Illinois State Water Survey (ISWS) has been involved in evaluating the use of the water resources of Illinois. Most of the previous reports on water use have emphasized the regions where water resources are extensively developed or have surveyed withdrawal by a major user category. These reports, written prior to the IWIP withdrawal summaries that began in 1979, can be found in electronic format in the publications section of the Illinois State Water Survey website (<http://www.isws.illinois.edu/>). The publications that specifically summarize water withdrawals in Illinois since the inception of the Program are listed in Appendix A.

### **Present Study**

As of 2011, the IWIP database contains site-specific information for 11,718 active and inactive high-capacity withdrawal point sources from 4,770 facilities throughout Illinois. The database covers public water supply wells for communities and surface water intakes, high-capacity (more than 70 gallons per minute or about 100,000 gallons per day) private wells, and surface water intakes for industry, commercial establishments, and fish and wildlife management areas. It also contains detailed annual pumpage information for wells and surface water intakes since 1978.

Funding for IWIP had been minimal until this last year, allowing only for basic maintenance of the program. The program still operates primarily using paper records; early in a calendar year, forms are mailed to all public water supplies and major industrial and commercial water users, requesting water use data. Typically a second mailing of these questionnaires is necessary to achieve a return between seventy and eighty percent of the users. Follow-up phone calls are also made to help complete the data. For the 2011 data summary, 1,197 public water supplies and 656 self-supplied industrial users responded to the annual questionnaire. This report summarizes the data reported to the Water Survey. For more detailed studies, a variety of estimation techniques are used to fill the data gaps created by the non-response to the questionnaire. Using a variety of methods, information from 93% of the PWS and 88% of the

SSI facilities was included in this summary. The data are entered manually into a database and checked for quality.

Water withdrawals for agricultural irrigation systems are not included in this report. These facilities have not been required to submit withdrawal information to date. The 2010 amendment to the Water Use Act of 1983 requires reporting of agricultural irrigation withdrawals starting in 2015. The Act also allows for withdrawals to be estimated using approved ISWS methods if withdrawals are not metered. The ISWS is currently developing estimation techniques for this type of reporting with funding from the Illinois Department of Natural Resources (IDNR). With continued funding from IDNR, the IWIP program is moving toward and is on track to become a completely digital reporting system by the end of 2015.

### **Acknowledgments**

This report was prepared under the general direction of Mike Demissie, Director of the Illinois State Water Survey, University of Illinois Prairie Research Institute, and Walt Kelly, Head of the Groundwater Section, Illinois State Water Survey. Acknowledgement is given to the numerous individuals and organizations who have generously contributed information incorporated into this report in response to the mail and electronic mail questionnaire. The authors also acknowledge and thank those Water Survey staff who helped in editing and formatting this document, notably Sara Olson, Lisa Sheppard and Wendy Kunde.



## **Water Withdrawals**

### Terminology

The term “water use” refers to the amount of water withdrawn or diverted from a source. If water is returned to its original source, then the portion returned is considered a non-consumptive use. If water is returned to a stream, lake, aquifer, or other source, other than the source it came from, the use is considered consumptive use. In these cases, the water can be withdrawn anew and the summation of successive withdrawals provides a total cumulative withdrawal or use for reporting purposes.

A “public water supply” provides water for human consumption to at least 15 service connections or regularly serves an average of at least 25 people at least 60 days per year. The IWIP program has historically gathered withdrawal data from community water supplies that provide water to the same population year-around.

Facilities using their own groundwater or surface water source are categorized as “self-supplied,” meaning they do not purchase their water from another entity.

Water used to generate hydroelectric power is also included as a withdrawal use in this report because of its diversion through power plants. Power generation use is categorized within the self-supplied industry totals, and because of the tremendous amount of water being diverted, some of the tables and figures in this report are provided without power generation use included.

Water withdrawal data are reported as average daily quantities usually derived from the annual use. This use is expressed in million gallons per day (mgd).

### Public Water Supply (PWS) Withdrawal

The total water withdrawal in 2011 for public water supply (PWS) systems was 1,508.3 mgd. Figure 1 depicts PWS use by county and Figure 2 depicts PWS use by township (TWP). Groundwater furnished 356.7 mgd for PWS use (Figures 3 and 4), and surface water supplied 1,151.6 mgd (Figures 5 and 6). Appendix B and Appendix C list the withdrawal by public water supply facilities by county and township in Illinois.

### Self-Supplied Industries (SSI)

Nearly all the self-supplied industry (SSI) systems in Illinois can be divided into four major classifications: thermoelectric power generation, hydroelectric power generation, manufacturing, and mineral extraction. This report summarizes SSIs within two classifications, power generation and manufacturing. The two classifications of power generation are combined for this report. Data on mineral extraction are not collected. Further, classifications in manufacturing that can be identified through Standard Industrial Classification Codes (SIC) were not separated for this report. In 2011, the total reported SSI water withdrawals were 51,920.3 mgd (see Appendix B). Figure 7 is the total SSI use by county and Figure 8 is the total SSI use by township. Groundwater provided 156.7 mgd and surface water provided 51,763.6 mgd. While many counties have total SSI withdrawals in excess of 30 mgd (Figure 7), these withdrawals are generally not widespread throughout the county (Figure 8). Rather, they are representative of local hydroelectric power plants with large water usage.

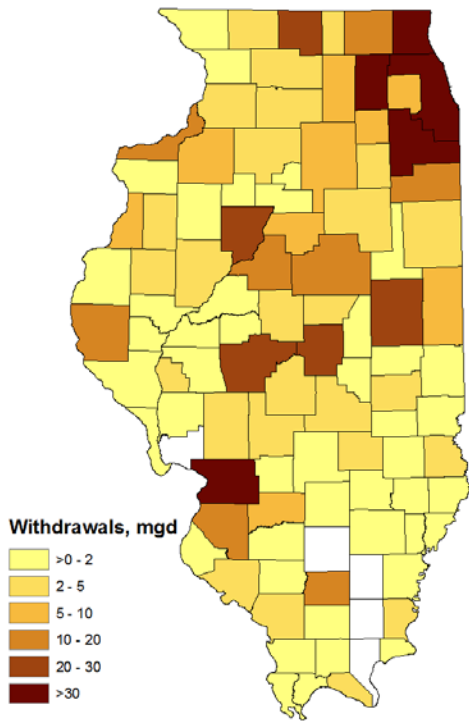


Figure 1. Total PWS Withdrawal by County

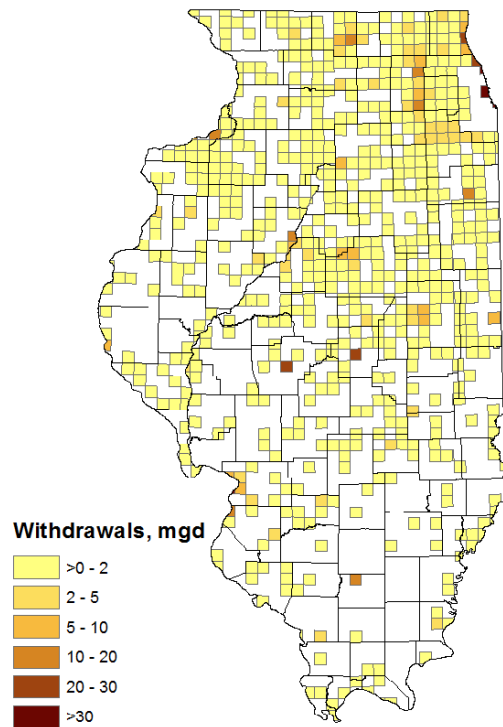


Figure 2. Total PWS Withdrawal by Township

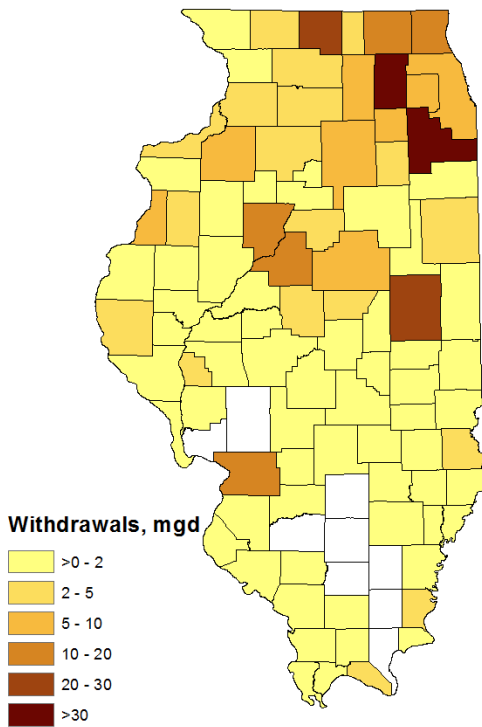


Figure 3. Total Groundwater PWS Withdrawal by County

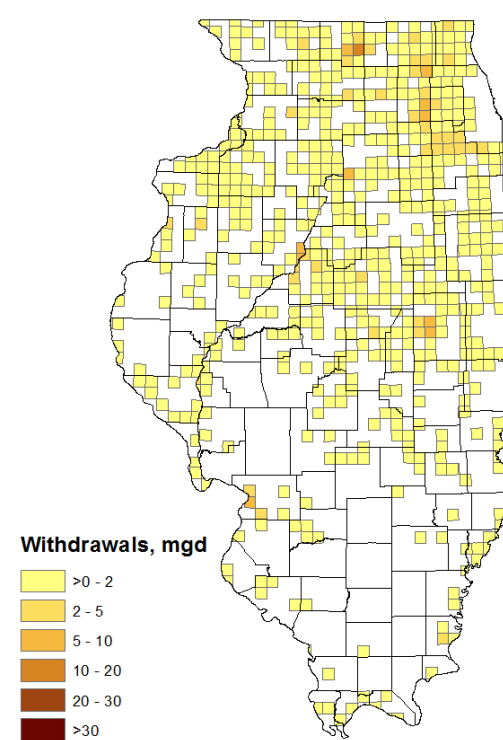


Figure 4. Total Groundwater PWS Withdrawal by Township

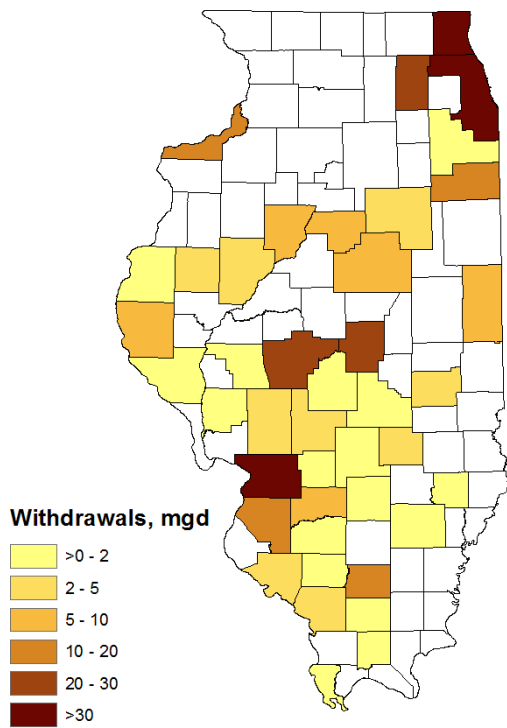


Figure 5. Total Surface Water PWS Withdrawal by County

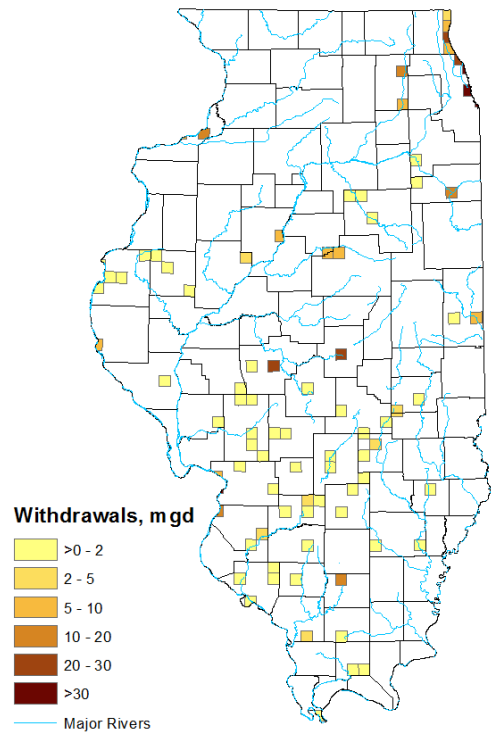


Figure 6. Total Surface Water PWS Withdrawal by Township

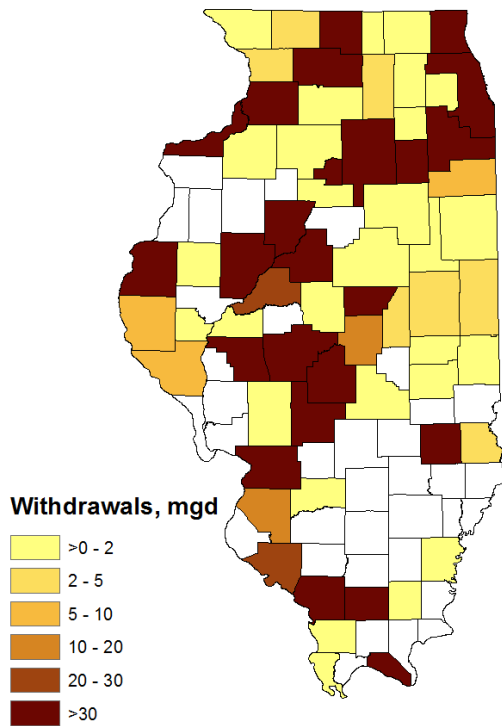


Figure 7. Total SSI Withdrawal by County, including Power Generation

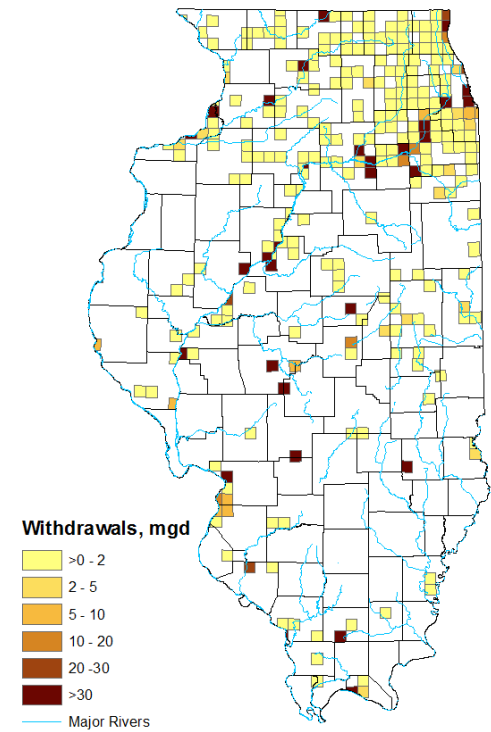


Figure 8. Total SSI Withdrawal by Township, including Power Generation

### Power Generation

The electric power generation industry is the largest user of water in the state, accounting for 96.3% of the SSI water use. These withdrawals totaled 51,430.2 mgd in 2011. However, nearly all of this water was returned to its source (non-consumptive use), although with an increase in temperature. The distribution of these withdrawals in Illinois is shown in Figure 9 and coincides with total SSI withdrawals by township greater than 30 mgd (Figure 8). Table 1 provides power generation water use totals by township.

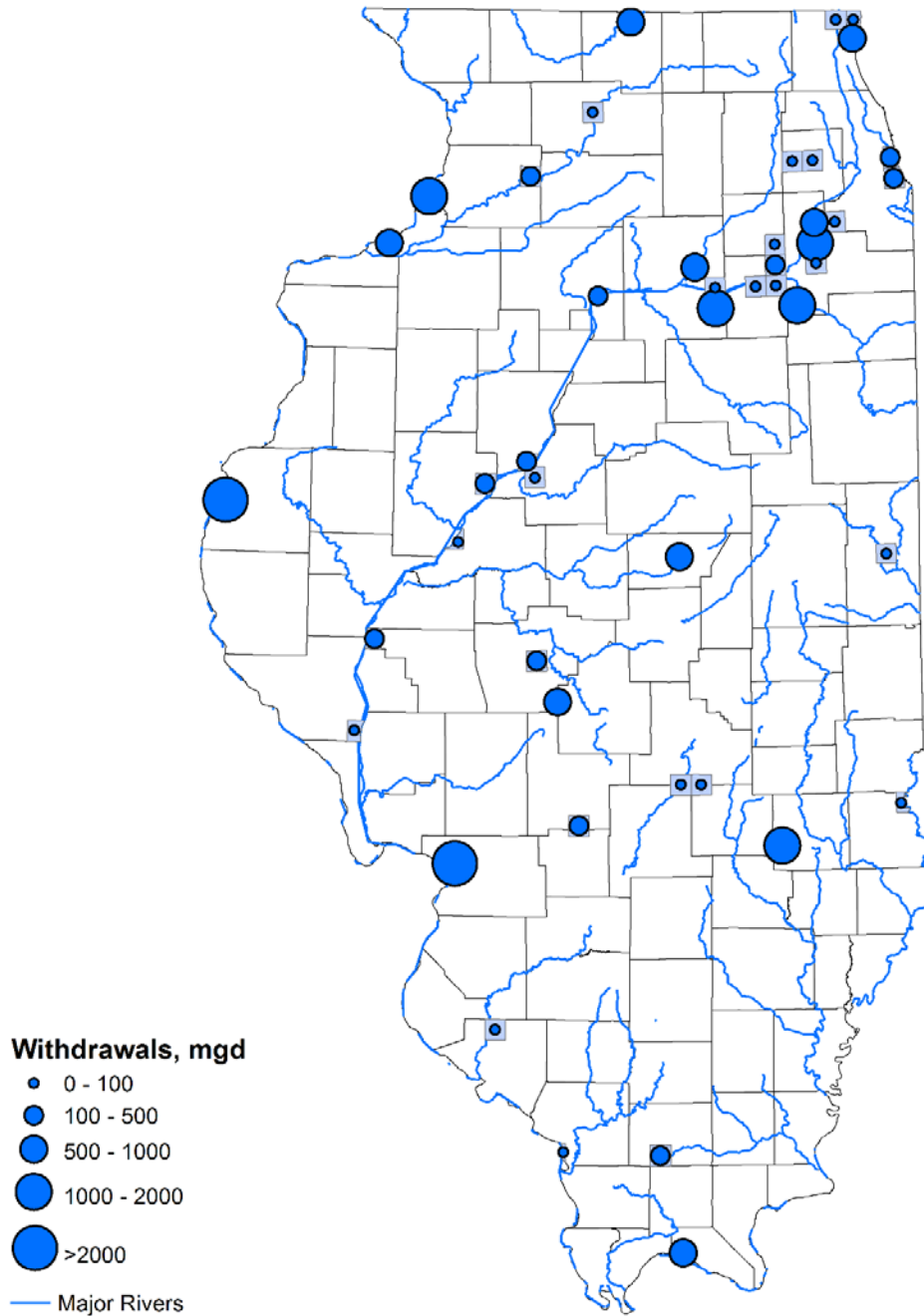


Figure 9. Power Generation Use, 2011, per Township

**Table 1. Electric Power Generation Water Withdrawals by Township**

County	Township	Range	Surface Water Withdrawal		Groundwater Withdrawal		Township	
			Total Annual Gallons	mgd	Total Annual Gallons	mgd	Total Gallons	mgd
Christian	13N	04W	277,689,322,500	760.793		0.000	277,689,322,500	760.793
Cook	38N	14E	91,080,770,000	249.536		0.000	91,080,770,000	249.536
	39N	14E	152,534,100,000	417.902		0.000	152,534,100,000	417.902
Crawford	08N	11W		0.000	500,000	0.001	500,000	0.001
DeWitt	20N	03E	282,431,566,680	773.785		0.000	282,431,566,680	773.785
DuPage	39N	09E		0.000	6,827,100	0.019	6,827,100	0.019
	39N	10E		0.000	108,000	0.000	108,000	0.000
Fulton	06N	05E	88,000,000,000	241.096		0.000	88,000,000,000	241.096
Grundy	33N	07E		0.000	315,000	0.001	315,000	0.001
	33N	08E	4,245,474,060	11.631	109,400	0.000	4,245,583,460	11.632
	34N	08E	175,530,800,000	480.906	12,805,805	0.035	175,543,605,805	480.941
Hancock	05N	09W	12,490,261,280,000	34,219.894		0.000	12,490,261,280,000	34,219.894
Jackson	10S	04W	20,794,241,400	56.971	16,317,500	0.045	20,810,558,900	57.015
Jasper	06N	08E	585,850,000,000	1,605.068		0.000	585,850,000,000	1,605.068
Kendall	35N	08E	516,551,574	1.415	150,450	0.000	516,702,024	1.416
Lake	45N	12E	221,778,729,923	607.613		0.000	221,778,729,923	607.613
	46N	11E		0.000	186,000	0.001	186,000	0.001
	46N	12E	10,220,000,000	28.000		0.000	10,220,000,000	28.000
LaSalle	32N	05E	555,210,720,000	1,521.125	18,941,734	0.052	555,229,661,734	1,521.177
	33N	05E	23,328,000,000	63.912		0.000	23,328,000,000	63.912
	34N	04E	312,854,458,752	857.136	36,500	0.000	312,854,495,252	857.136
Madison	05N	09W	115,283,823,000	315.846		0.000	115,283,823,000	315.846
Mason	21N	09W	7,884,000,000	21.600	402,373,000	1.102	8,286,373,000	22.702
Massac	15S	03E	222,906,600,000	610.703	450,364,000	1.234	223,356,964,000	611.937
Montgomery	07N	03W	158,048,055,197	433.008		0.000	158,048,055,197	433.008
Morgan	16N	13W	42,086,700,000	115.306	56,582,127	0.155	42,143,282,127	115.461
Ogle	24N	10E	18,966,801,000	51.964	20,025,000	0.055	18,986,826,000	52.019
Peoria	07N	07E	147,386,701,046	403.799		0.000	147,386,701,046	403.799
Pike	07S	02W	3,393,745,000	9.298	3,326,800	0.009	3,397,071,800	9.307
Putnam	33N	02W	72,111,589,200	197.566	223,700,000	0.613	72,335,289,200	198.179
Randolph	04S	07W	7,963,788,000	21.819		0.000	7,963,788,000	21.819
Rock Island	18N	01W	207,582,566,400	568.719		0.000	207,582,566,400	568.719
	20N	02E	398,302,000,000	1,091.238	267,883,344	0.734	398,569,883,344	1,091.972
Sangamon	15N	05W	100,845,290,000	276.288		0.000	100,845,290,000	276.288
Shelby	09N	03E	485,312,133	1.330		0.000	485,312,133	1.330
	09N	04E		0.000	98,550	0.000	98,550	0.000
Tazewell	24N	05W	8,726,400,000	23.908	162,180,000	0.444	8,888,580,000	24.352
Vermilion	20N	12W	1,050,322,500	2.878	244,800	0.001	1,050,567,300	2.878
Whiteside	21N	07E	142,290,000,000	389.836		0.000	142,290,000,000	389.836
Will	32N	09E	729,840,300,000	1,999.562	39,751,058	0.109	729,880,051,058	1,999.671
	34N	10E	1,460,600	0.004	7,840,000	0.021	9,300,600	0.025
	35N	10E	468,327,000,000	1,283.088	60,698,932	0.166	468,387,698,932	1,283.254
	36N	10E	203,541,000,000	557.647	25,091,060	0.069	203,566,091,060	557.715
	36N	11E	28,382,400	0.078		0.000	28,382,400	0.078
Williamson	10S	02E	75,270,500,000	206.221		0.000	75,270,500,000	206.221
Winnebago	46N	01E	345,606,877,440	946.868		0.000	345,606,877,440	946.868
<b>TOTAL</b>			<b>18,770,255,228,805</b>	<b>51,425.357</b>	<b>1,776,456,160</b>	<b>4.867</b>	<b>18,772,031,684,965</b>	<b>51,430.224</b>

### Self-Supplied Industry Water Use

Excluding water used for thermoelectric and hydroelectric generation provides a more realistic view of the consumptive use in the state. The total water withdrawals by SSIs in 2011 was 490.1 mgd. Figure 10 depicts the SSI use by county without power generation use and Figure 11 depicts SSI use by township without power generation use. Of the 490.1 mgd used for manufacturing, groundwater provided 151.9 mgd (Figures 12 and 13) and surface water provided 338.2 mgd (Figures 14 and 15).

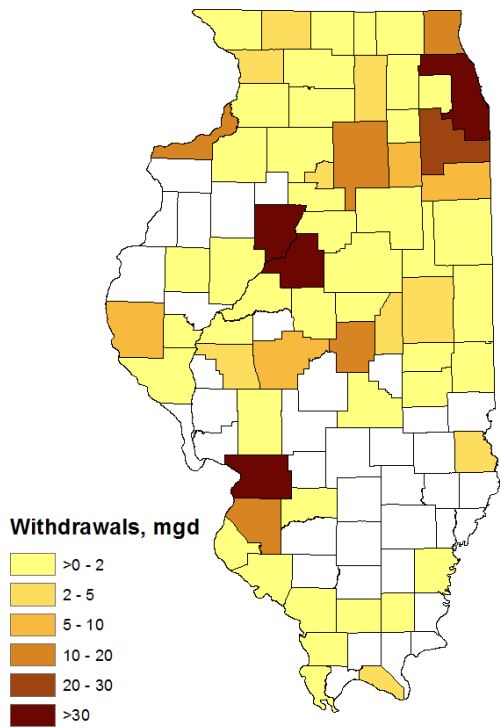


Figure 10. Total SSI Withdrawal by County, *without* Power Generation

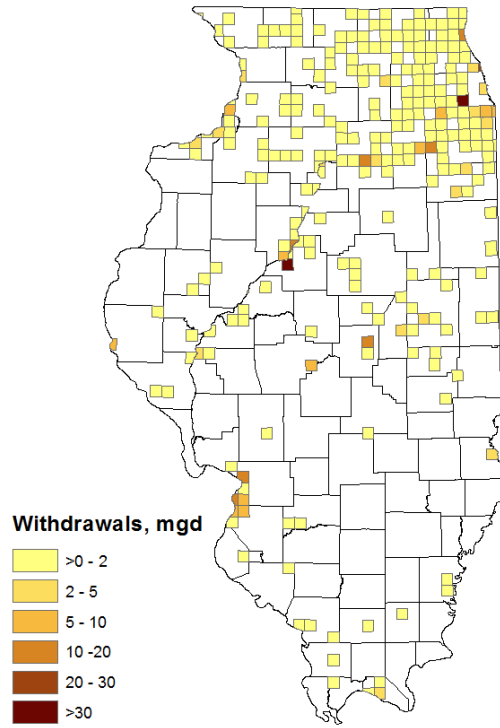


Figure 11. Total SSI Withdrawal by Township, *without* Power Generation

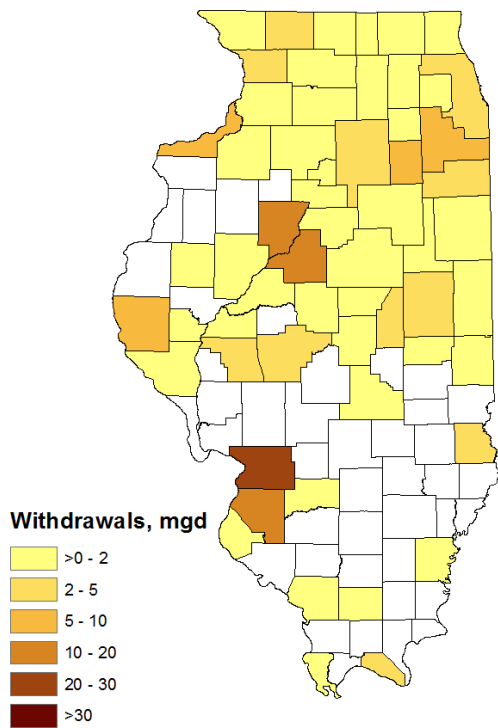


Figure 12. SSI Groundwater Withdrawal by County, *without* Power Generation

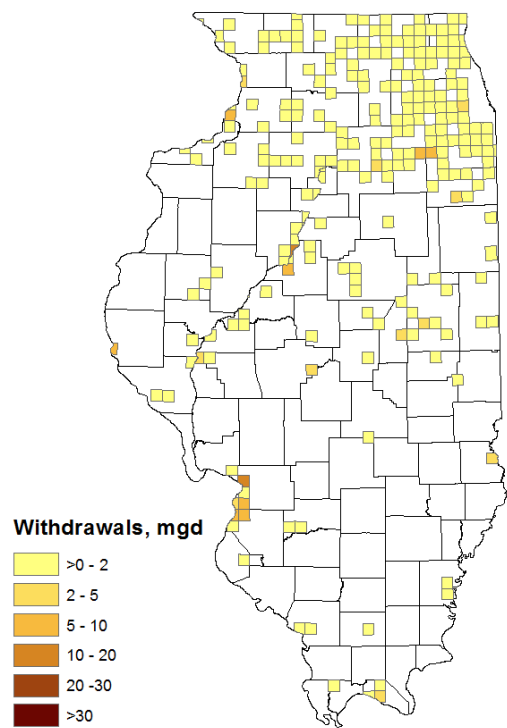


Figure 13. SSI Groundwater Withdrawal by Township, *without* Power Generation

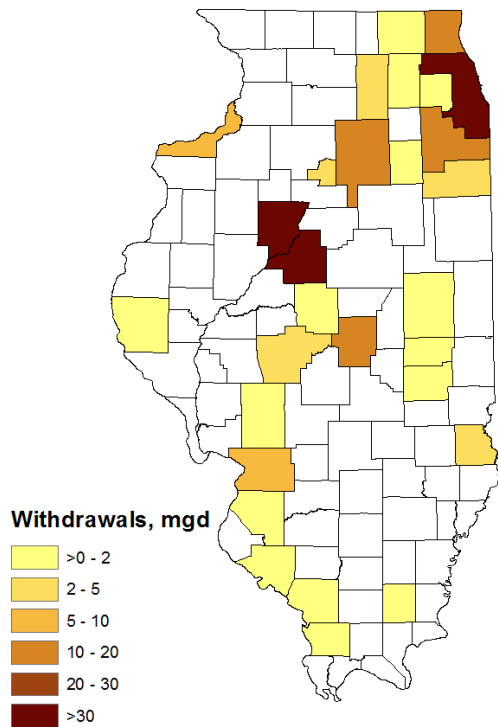


Figure 14. SSI Surface Water Withdrawal by County, *without* Power Generation

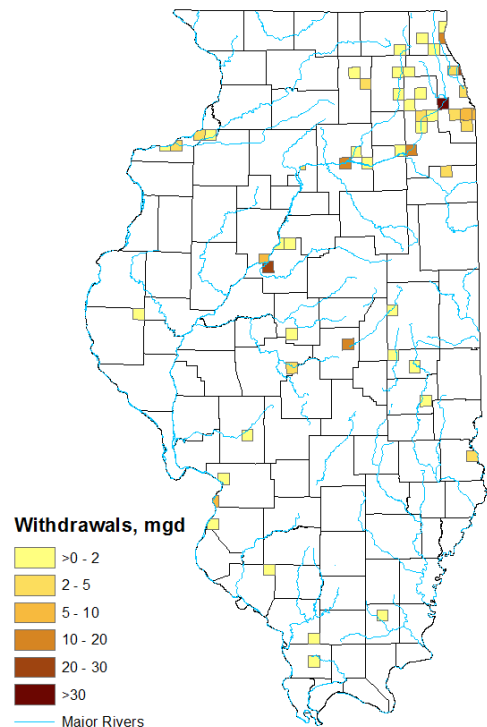


Figure 15. SSI Surface Water Withdrawal by Township, *without* Power Generation

**Summary of 2011 Illinois Water Use**

Total reported water withdrawals during 2011 were 53,428.6 mgd (Table 2). Groundwater accounted for 513.4 mgd and surface water supplied 52,915.2 mgd. Total reported withdrawals, excluding electric power generation use in 2011 was 1,998.3 mgd; where groundwater use was 508.5 mgd and surface water use was 1,489.8 mgd. Table 3 lists the top ten counties in total water use, excluding power generation. Figures 16 and 17 are of total use (PWS and SSI combined) including power generation by county and township, respectively. Figures 18 and 19 are of total withdrawals without power generation by county and township, respectively.

**Table 2. Summary of Total Water Withdrawals, 2011**

<i>Category</i>	<i>Groundwater</i>	<i>Surface Water</i>	<i>Total</i>
Public Water Supply	356.7	1,151.6	1,508.3
Self-Supplied Industry	156.7	51,763.6	51,920.3
Total	513.4	52,915.2	53,428.6

**Table 3. Top 10 Water Use Counties (in mgd)**

<b>Public Water Systems</b>		<b>Self-Supplied Industry (without power generation)</b>	
<b>County</b>	<b>Total (in mgd)</b>	<b>County</b>	<b>Total (in mgd)</b>
<b>Cook</b>	863.07	<b>Peoria</b>	132.61
<b>Lake</b>	61.54	<b>Cook</b>	103.84
<b>Kane</b>	58.37	<b>Tazewell</b>	40.79
<b>Madison</b>	55.83	<b>Madison</b>	36.08
<b>Will</b>	37.71	<b>Will</b>	22.25
<b>Winnebago</b>	28.83	<b>Rock Island</b>	15.65
<b>Sangamon</b>	24.38	<b>LaSalle</b>	15.22
<b>Peoria</b>	23.91	<b>Macon</b>	15.03
<b>Champaign</b>	23.39	<b>St. Clair</b>	15.00
<b>Macon</b>	22.86	<b>Lake</b>	12.05



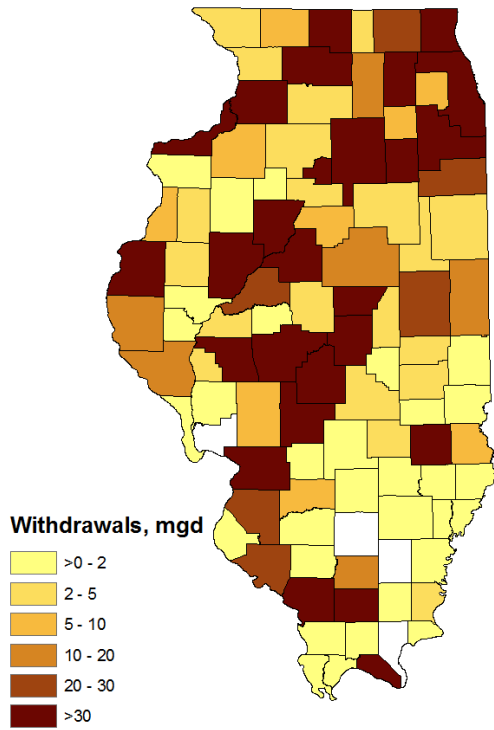


Figure 16. Total Withdrawals by County, *including* Power Generation

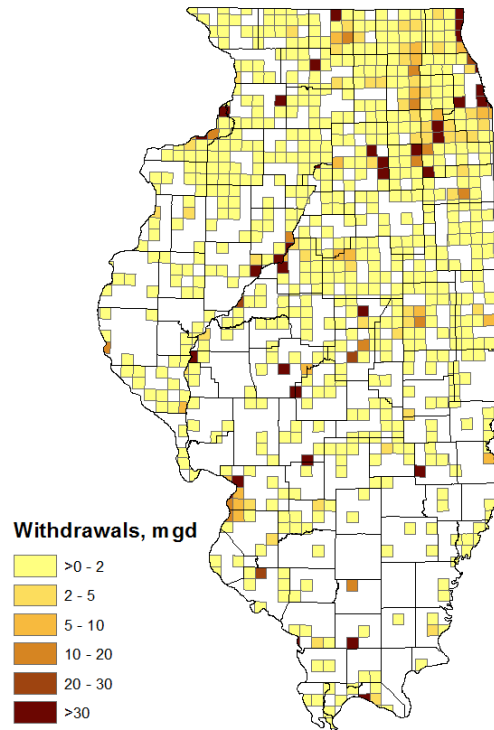


Figure 17. Total Withdrawals by Township, *including* Power Generation

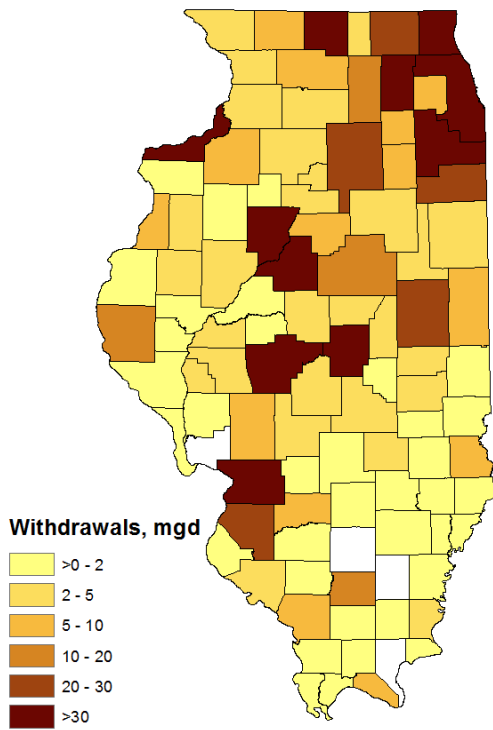


Figure 18. Total Withdrawals by County, *without* Power Generation

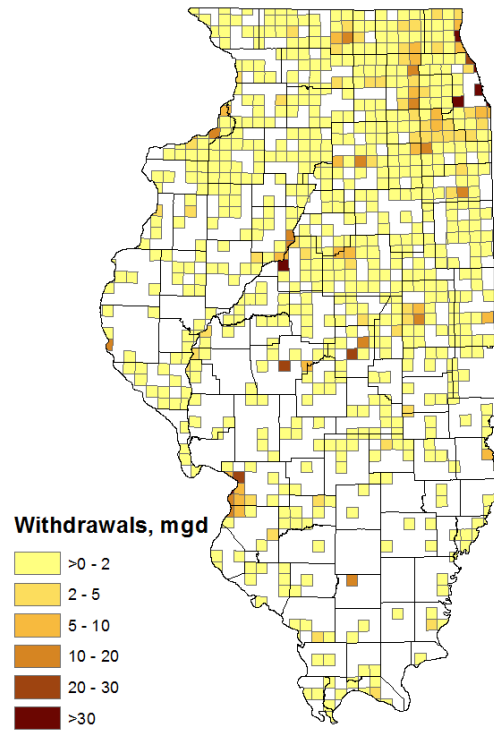


Figure 19. Total Withdrawals by Township, *without* Power Generation

## Sources of Water

Illinois has significant groundwater resources that complement the water available from the major rivers and Lake Michigan. The number of groundwater users among active IWIP facilities is 1,753 and the number using surface water is 261 (some use both). Twelve hundred and forty-four of the groundwater users are PWSs and 509 are SSIs. One hundred and thirty-nine of the surface water users are PWSs and 122 are SSIs. Even with those significant differences in numbers of facilities, surface water accounts for nearly 75% of the water use in the state, even with power generation removed. This is mostly due to the water withdrawn from Lake Michigan.

Figures 20 and 21 are of groundwater withdrawals from all facilities, excluding power generation, displayed by county (Figure 20) and township (Figure 21). Surface water withdrawals from all facilities, excluding power generation, are shown in Figures 22 (county) and 23 (township).

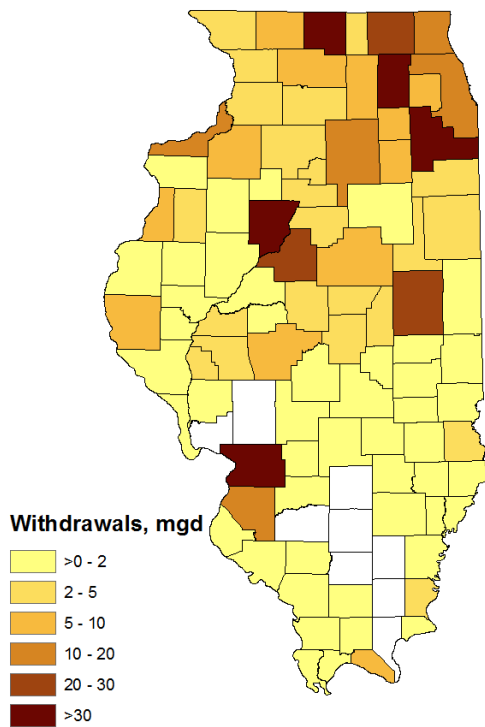


Figure 20. Total Groundwater Withdrawals by County, without Power Generation

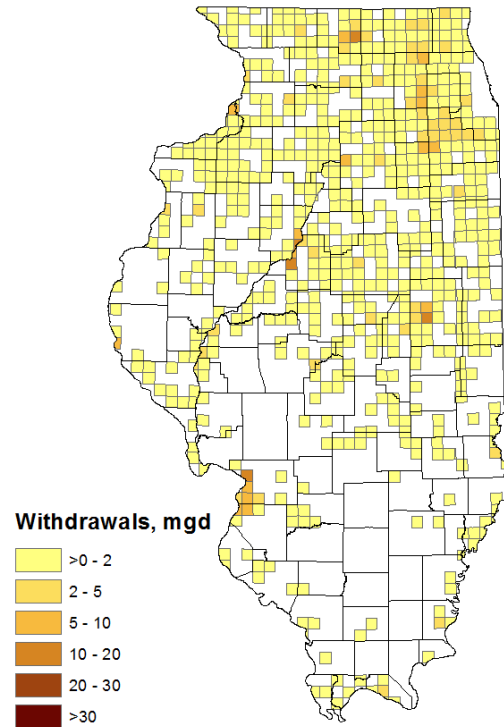


Figure 21. Total Groundwater Withdrawals by Township, without Power Generation

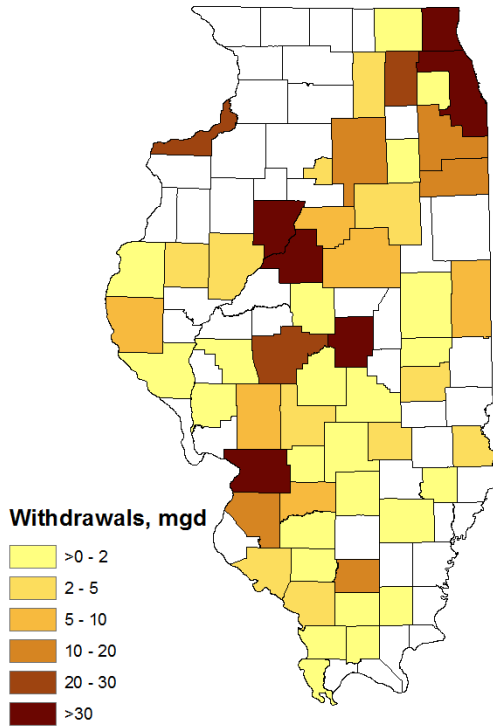


Figure 22. Total Surface Water Withdrawals by County, *without* Power Generation

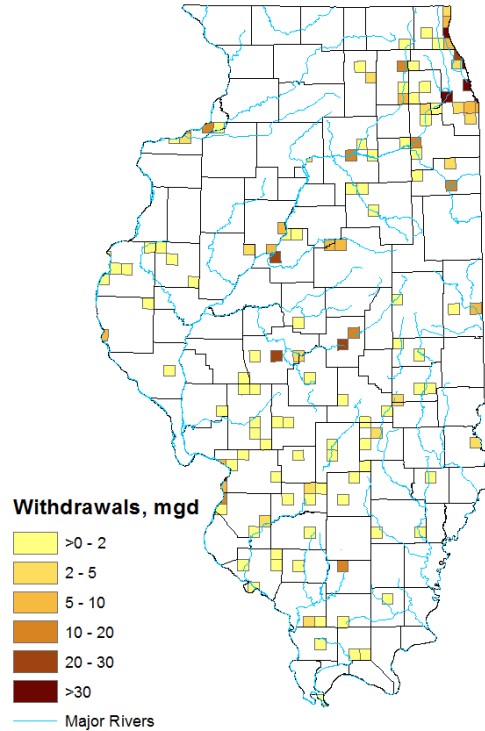


Figure 23. Total Surface Water Withdrawals by Township, *without* Power Generation

### Regional Water Use and Trends in Illinois

The availability and sustainability of an adequate and dependable water supply is essential for public, environmental, and economic health. This basic understanding has led to discussions and plans at both the state and regional levels in Illinois. The continuing mission of the Illinois State Water Survey and the Illinois Water Inventory Program is to collect, manage, and disseminate water resource data in support of planning for current and future water needs in Illinois. This section presents water use summaries or trends for three current water planning regions in Illinois: the Illinois Water Supply Planning Areas, the Chicago Region, and the Mahomet Aquifer System of central Illinois. These areas are the focus of current data collection, monitoring, and modeling efforts by the State Water and Geologic Surveys.

#### Illinois Water Supply Planning Areas

On January 9, 2006, Governor Blagojevich issued Executive Order 2006-91, which called for the development of state and regional water supply plans. That Order and funding commitments to carry out its mandates had been the culmination of years of discussions among scientists at the Illinois State Water Survey, the Illinois State Geological Survey, the Office of Water Resources, and other agencies and stakeholders that recognized the need to develop plans for current and future water use in the state. The Surveys and other agencies established a

scientific basis for water supply planning using existing data, collecting new information, and developing new analytical tools. Water use within each planning area is one component necessary to understand past and current water use. This adds to the knowledge base within each area so appropriate strategies for future demand can be discussed and developed. Figure 24 identifies these areas in Illinois. Table 4 summarizes the total 2011 water use by public water supply and self-supplied industry within each area. Appendix D summarizes county withdrawals within each water supply planning area.

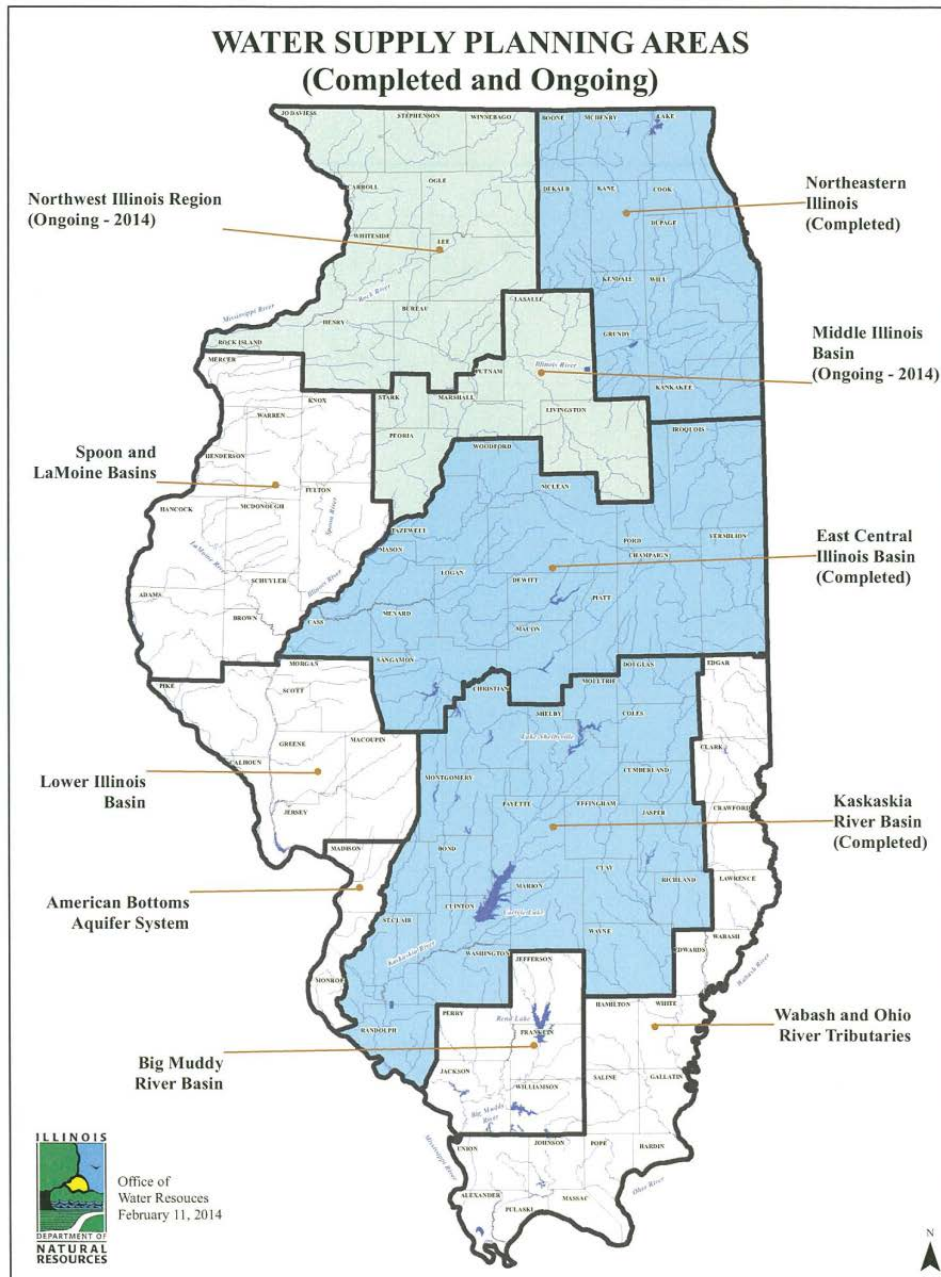


Figure 24. Illinois Water Supply Planning Areas – Illinois Department of Natural Resources - Office of Water Resources

**Table 4. Water Withdrawals in Illinois Priority Planning Areas, 2011**

<i>Priority Planning Area</i>	<i>Public Water Supply</i>			<i>Self-Supplied-Industry</i>			<i>Area Total (mgd)</i>
	<i>Groundwater (mgd)</i>	<i>Surface Water (mgd)</i>	<i>Total (mgd)</i>	<i>Groundwater (mgd)</i>	<i>Surface Water (mgd)</i>	<i>Total (mgd)</i>	
Spoon and LaMoine Basins	13.47	13.01	26.48	6.57	34,461.02	34,467.59	34,494.07
Northeastern Illinois	142.54	939.87	1,082.40	23.48	5,773.71	5,797.19	6,879.59
Middle Illinois Basin	29.71	10.80	40.43	22.39	3,174.41	3,196.80	3,237.30
Northwestern Illinois Region	58.27	16.17	74.44	21.02	3,055.87	3,076.89	3,151.34
Kaskaskia River Basin	8.68	39.90	48.59	15.54	2,823.60	2,839.14	2,887.73
East Central Illinois Basin	63.76	63.33	127.08	28.72	1,147.60	1,176.32	1,303.40
Wabash and Ohio River Tributaries	18.33	1.61	19.93	8.39	613.25	621.64	641.57
American Bottoms Aquifer System	14.64	41.57	56.21	26.70	325.23	351.93	408.13
Big Muddy River Basin	0.25	20.46	20.70	0.90	263.22	264.12	284.82
Lower Illinois Basin	7.06	4.89	11.94	3.02	125.70	128.72	140.67

### Chicago Region Deep Aquifer Trends

The deep bedrock aquifers in northeast Illinois include, most notably, the Ordovician St. Peter Sandstone aquifer, Cambrian Ironton-Galesville Sandstone aquifer, and Cambrian Elmhurst-Mt. Simon Sandstone aquifer, collectively referred to as the Deep Sandstone Aquifer. These systems supply significant water to the Chicago region. However, despite their widespread use as a source, wells supplying groundwater derived from these deep aquifers have historically been subject to substantial interference drawdown generated from sources as distant as the Milwaukee area. Moreover, groundwater from these wells sometimes contains high concentrations of radium, barium, and total dissolved minerals. Due to the extreme drawdown of aquifer water levels prior to the 1980s, the Chicago region in the late 1980s and early 1990s substantially reduced its pumping from the deep aquifers as many of the communities dependent on deep groundwater shifted the source of their water supply to Lake Michigan. Since the late 1990s, however, the overall trend in use of the deep aquifers in the Chicago region has been upward (Figure 25). In 2011, withdrawals from the deep aquifers in the 11-county region of northeastern Illinois (Boone, Cook, DeKalb, DuPage, Grundy, Kane, Kankakee, Kendall, Lake, McHenry, and Will Counties) totaled about 97 mgd.

### Water Use in the Mahomet Aquifer of Central Illinois

The Mahomet Aquifer is a major buried sand and gravel deposit located in central Illinois (Figure 26). This aquifer has been studied extensively by the ISWS, and this was one of the first areas to have a report completed as a water supply planning area (Roadcap, et. al., 2011). In 2011, over 75 mgd of groundwater was withdrawn from the Mahomet Aquifer for the 138 different public and commercial water supplies in east-central Illinois that report to the IWIP program as shown in Figure 27. The western portions of the aquifer are characterized by sandy soils that require irrigation. It is estimated that 40% of the center pivot irrigation in the state is in Mason County, along the Illinois River. The ISWS is currently working with stakeholders in the region to develop information and methods that will allow the IWIP program to collect irrigation water withdrawal information by 2015.

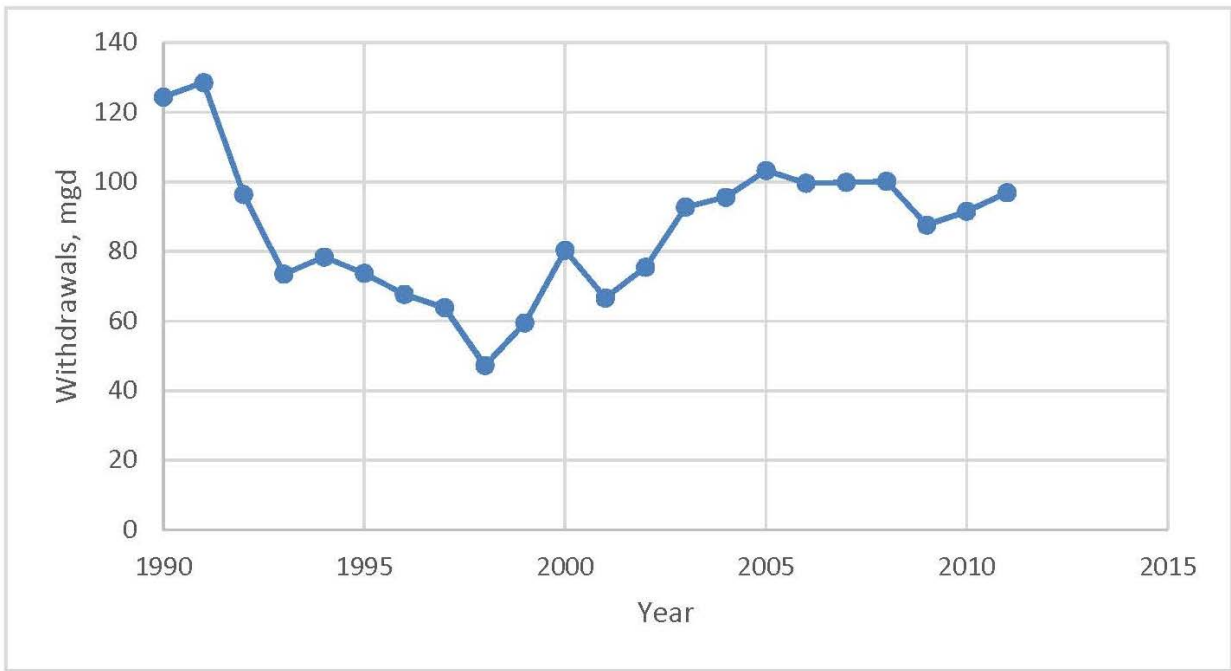


Figure 25. Water Withdrawals from Deep Bedrock Aquifers in the 11-County Region of Northeastern Illinois, 1990 to 2011.

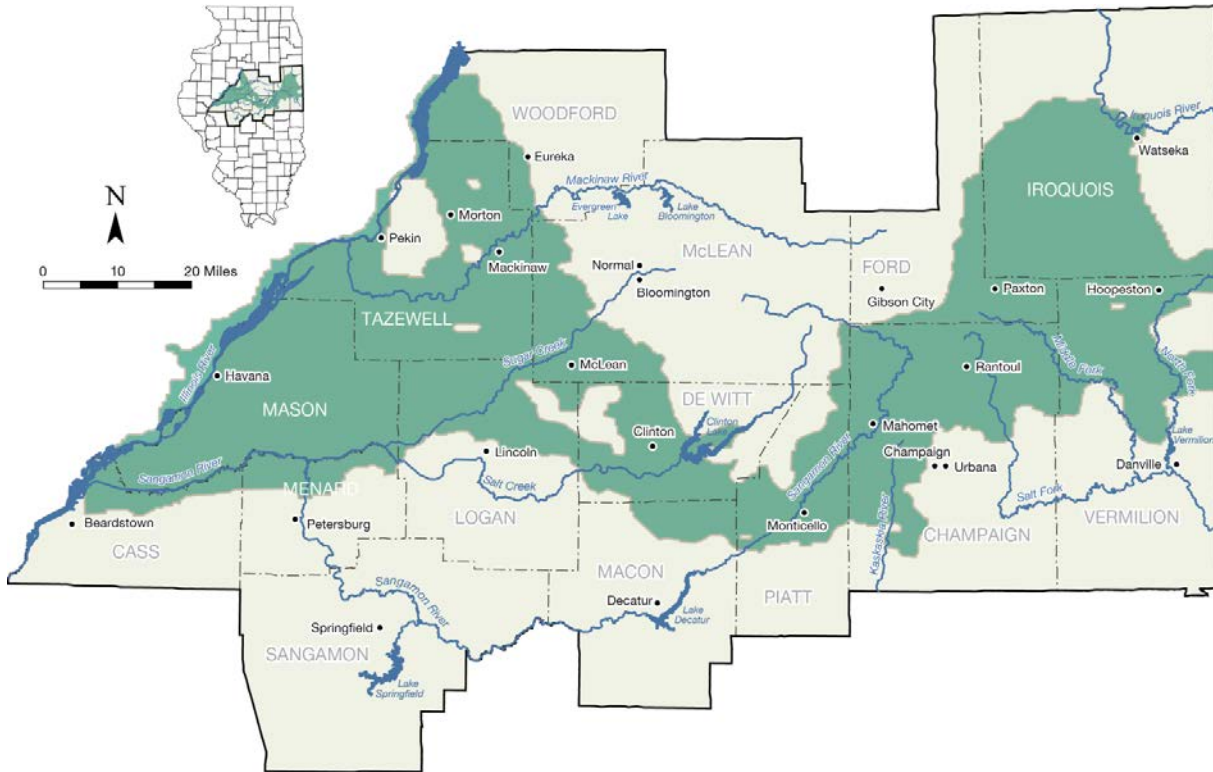


Figure 26. The Mahomet Aquifer Region in Central Illinois

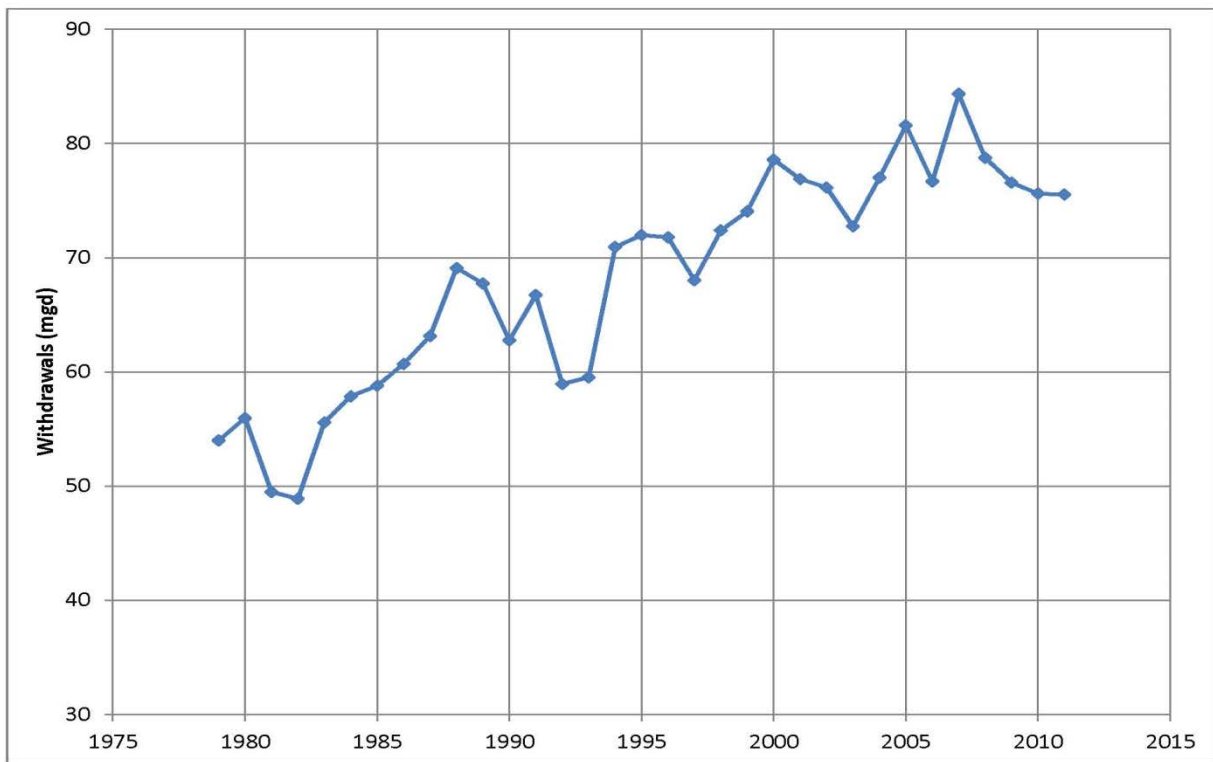


Figure 27. Water Withdrawal within the Mahomet Aquifer System, 1975 to 2011

**Recommendations and Future Direction**

This is the first detailed report on Illinois water use from the IWIP program in over 15 years. Bryant and Meyer (2013) developed a summary 4-page brochure for the 2010 water use, and this report is the start of planned annual water use reports that expand on that document to more fully describe the water use and withdrawals in Illinois.

The IWIP program is changing. Currently, a completely online reporting system for SSI is being developed, and a separate, completely different online system for irrigation reporting will be ready for piloting late in 2014. For the 2013 water reporting, the IWIP program has collected information from the Lake Michigan Allocation using fillable PDFs as a short-term solution. The regular mailing for the majority of water users took place in spring 2014 for the 2013 reporting period. Continued support for this program is essential to understanding and addressing Illinois’ emerging water issues.

## REFERENCES

Bryant, Tim and S. Meyer. 2013. *Water Withdrawals and Use in Illinois, 2010*. Illinois State Water Survey Contract Report 2013-04.

Illinois Department of Natural Resources, Office of Water Resources. Illinois Water Supply Planning Areas Map.

Kirk, James R., K.J. Hlinka, R.T. Sasman, and E.W. Sanderson. *Water Withdrawals in Illinois, 1984*. Illinois State Water Survey Circular 163.

Roadcap, G. S., H. V. Knapp, H. A. Wehrmann, and D. R. Larson. 2011. *Meeting East-Central Illinois Water Needs to 2050: Potential Impacts on the Mahomet Aquifer and Surface Reservoirs*. Illinois State Water Survey Contract Report 2011-08.



## APPENDICES

Appendix A: Illinois Water Inventory Program publications

Appendix B: 2011 County Water Withdrawals

Appendix C: 2011 Township Water Withdrawals

Appendix D: 2011 Water Supply Planning Areas County Water Withdrawals

## APPENDIX A: Illinois Water Inventory Program Publications

Avery, Charles. 1995. *Estimated Water Withdrawals and Use in Illinois, 1988*. U.S. Geological Survey Open-File Report 95-309.

Avery, Charles. 1996. *Estimated Water Withdrawals and Use in Illinois, 1990*. U.S. Geological Survey Open-File Report 96-396.

Avery, Charles. 1999. *Estimated Water Withdrawals and Use in Illinois, 1992*. U.S. Geological Survey Open-File Report 99-97.

Bryant, Timothy P. and Scott C. Meyer. 2013. *Water Withdrawals and Use in Illinois, 2010*. Illinois State Water Survey Contract Report 2013-04.

Kenny, Joan F., et.al. 2009. *Estimated Use of Water in the United States in 2005*. U.S. Geological Survey Circular 1344.

Kirk, James R., et.al. 1979. *Water Withdrawals in Illinois, 1978*. Illinois State Water Survey Circular 140.

Kirk, James R., et.al. 1982. *Water Withdrawals in Illinois, 1980*. Illinois State Water Survey Circular 152.

Kirk, James R., et.al. 1984. *Water Withdrawals in Illinois, 1982*. Illinois State Water Survey Circular 161.

Kirk, James R., et.al. 1985. *Water Withdrawals in Illinois, 1984*. Illinois State Water Survey Circular 163.

Kirk, James R. 1987. *Water Withdrawals in Illinois, 1986*. Illinois State Water Survey Circular 167.



## APPENDIX B: 2011 County Water Withdrawals

County	FIPS	Public Water Supply			Self-Supplied Industry			County
		Groundwater (mgd)	Surface Water (mgd)	Total (mgd)	Groundwater (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
Adams	001	2.205	7.973	10.178	6.563	0.027	6.591	16.769
Alexander	003	0.971	0.843	1.815	0.001	0.000	0.001	1.816
Bond	005	0.063	1.226	1.289	0.000	0.000	0.000	1.289
Boone	007	3.865	0.000	3.865	0.451	0.000	0.451	4.316
Brown	009	0.047	0.000	0.047	0.007	0.000	0.007	0.055
Bureau	011	2.812	0.000	2.812	0.170	0.000	0.170	2.982
Calhoun	013	0.293	0.000	0.293	0.000	0.000	0.000	0.293
Carroll	015	0.926	0.000	0.926	2.805	0.000	2.805	3.731
Cass	017	0.911	0.000	0.911	1.728	0.000	1.728	2.639
Champaign	019	23.384	0.000	23.384	2.760	0.002	2.762	26.146
Christian	021	1.901	0.558	2.459	0.000	760.793	760.793	763.252
Clark	023	1.785	0.000	1.785	0.000	0.000	0.000	1.785
Clay	025	0.009	0.000	0.009	0.000	0.000	0.000	0.009
Clinton	027	0.346	6.683	7.029	0.621	0.000	0.621	7.650
Coles	029	0.507	3.701	4.208	0.000	0.003	0.003	4.211
Cook	031	9.320	853.751	863.071	3.170	768.110	771.280	1,634.351
Crawford	033	2.279	0.000	2.279	2.629	2.179	4.809	7.088
Cumberland	035	0.277	0.000	0.277	0.000	0.000	0.000	0.277
DeKalb	037	7.860	0.000	7.860	0.087	3.069	3.157	11.017
DeWitt	039	4.877	0.000	4.877	0.002	773.785	773.787	778.664
Douglas	041	0.623	0.000	0.623	0.000	1.392	1.393	2.016
DuPage	043	6.490	0.000	6.490	0.207	1.244	1.451	7.941
Edgar	045	1.314	0.000	1.314	0.003	0.000	0.003	1.317
Edwards	047	0.017	0.000	0.017	0.000	0.000	0.000	0.017
Effingham	049	0.096	2.322	2.419	0.000	0.000	0.000	2.419
Fayette	051	0.598	1.094	1.692	0.000	0.000	0.000	1.692
Ford	053	1.416	0.000	1.416	1.458	0.000	1.458	2.874
Franklin	055	0.000	14.404	14.404	0.000	0.000	0.000	14.404
Fulton	057	0.477	2.126	2.602	0.001	241.096	241.097	243.699
Gallatin	059	3.671	0.000	3.671	0.000	0.000	0.000	3.671
Greene	061	0.736	0.086	0.821	0.000	0.000	0.000	0.821
Grundy	063	3.630	0.000	3.630	5.456	492.600	498.056	501.685
Hamilton	065	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hancock	067	0.312	0.795	1.107	0.000	34,219.894	34,219.894	34,221.001
Hardin	069	0.167	0.000	0.167	0.000	0.000	0.000	0.167
Henderson	071	5.573	0.000	5.573	0.000	0.000	0.000	5.573
Henry	073	5.011	0.000	5.011	1.478	0.000	1.478	6.489
Iroquois	075	2.236	0.000	2.236	0.003	0.000	0.003	2.236
Jackson	077	0.066	4.196	4.262	0.818	56.998	57.816	62.078
Jasper	079	1.230	0.000	1.230	0.000	1,605.068	1,605.068	1,606.298
Jefferson	081	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jersey	083	0.000	0.000	0.000	0.000	0.000	0.000	0.000
JoDaviess	085	1.849	0.000	1.849	1.661	0.000	1.661	3.510
Johnson	087	0.068	0.762	0.830	0.000	0.000	0.000	0.830
Kane	089	35.253	23.115	58.368	1.209	0.154	1.363	59.731
Kankakee	091	1.281	11.672	12.953	3.466	3.701	7.168	20.121
Kendall	093	7.997	0.000	7.997	0.351	1.415	1.767	9.763
Knox	095	0.263	0.000	0.263	0.000	0.000	0.000	0.263
Lake	097	10.929	50.607	61.536	1.032	646.633	647.664	709.200
LaSalle	099	9.320	0.000	9.320	3.203	2,454.245	2,457.448	2,466.768
Lawrence	101	1.357	0.000	1.357	0.000	0.000	0.000	1.357
Lee	103	4.028	0.000	4.028	0.068	0.000	0.068	4.096
Livingston	105	1.566	3.325	4.891	0.035	0.000	0.035	4.926
Logan	107	2.411	0.000	2.411	0.147	0.923	1.070	3.481
McDonough	109	0.684	2.115	2.799	0.003	0.000	0.003	2.802

APPENDIX B: 2011 County Water Withdrawals (continued)

County	FIPS	Public Water Supply			Self-Supplied Industry			County
		Groundwater (mgd)	Surface Water (mgd)	Total (mgd)	Groundwater (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
McHenry	111	18.920	0.000	18.920	1.380	0.460	1.840	20.760
McLean	113	5.784	5.388	11.172	0.255	0.000	0.255	11.427
Macon	115	1.332	21.525	22.857	1.495	13.534	15.029	37.886
Macoupin	117	0.000	4.053	4.053	0.000	1.099	1.099	5.151
Madison	119	14.262	41.569	55.831	26.697	325.228	351.925	407.756
Marion	121	0.000	1.048	1.048	0.000	0.000	0.000	1.048
Marshall	123	1.630	0.000	1.630	0.672	0.000	0.672	2.302
Mason	125	0.555	0.000	0.555	2.335	21.600	23.935	24.490
Massac	127	2.622	0.000	2.622	5.063	610.703	615.766	618.388
Menard	129	0.432	0.000	0.432	0.000	0.000	0.000	0.432
Mercer	131	0.488	0.000	0.488	0.000	0.000	0.000	0.488
Monroe	133	0.376	0.000	0.376	0.000	0.000	0.000	0.377
Montgomery	135	0.530	2.051	2.581	0.000	433.008	433.008	435.590
Morgan	137	0.068	0.185	0.253	2.900	115.306	118.206	118.459
Moultrie	139	0.111	0.000	0.111	0.000	0.000	0.000	0.111
Ogle	141	4.773	0.000	4.773	1.978	51.964	53.942	58.715
Peoria	143	16.432	7.475	23.907	15.864	520.547	536.411	560.318
Perry	145	0.061	0.746	0.806	0.000	0.000	0.000	0.806
Piatt	147	1.184	0.000	1.184	3.524	0.000	3.524	4.708
Pike	149	1.147	0.562	1.709	0.120	9.298	9.418	11.127
Pope	151	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pulaski	153	0.190	0.000	0.190	0.000	0.000	0.000	0.190
Putnam	155	0.422	0.000	0.422	2.612	199.618	202.229	202.651
Randolph	157	0.707	2.580	3.287	0.000	21.919	21.919	25.206
Richland	159	0.011	1.343	1.354	0.000	0.000	0.000	1.354
Rock Island	161	2.175	16.173	18.347	9.137	1,667.204	1,676.341	1,694.688
St. Clair	163	0.656	14.242	14.898	14.908	0.088	14.996	29.894
Saline	165	0.000	0.000	0.000	0.000	0.334	0.334	0.334
Sangamon	167	1.217	23.161	24.378	4.039	280.327	284.366	308.744
Schuyler	169	0.930	0.000	0.930	0.000	0.000	0.000	0.930
Scott	171	4.814	0.000	4.814	0.000	0.000	0.000	4.814
Shelby	173	0.959	1.409	2.368	0.007	1.330	1.336	3.704
Stark	175	0.336	0.000	0.336	0.000	0.000	0.000	0.336
Stephenson	177	4.093	0.000	4.093	2.266	0.000	2.266	6.360
Tazewell	179	14.470	0.000	14.470	10.586	54.555	65.141	79.611
Union	181	1.061	0.000	1.061	0.000	0.033	0.033	1.093
Vermilion	183	1.355	7.865	9.220	0.384	2.878	3.262	12.482
Wabash	185	1.732	0.000	1.732	0.000	0.000	0.000	1.732
Warren	187	2.488	0.000	2.488	0.000	0.000	0.000	2.488
Washington	189	0.000	0.567	0.567	0.000	0.000	0.000	0.567
Wayne	191	0.058	1.079	1.138	0.000	0.000	0.000	1.138
White	193	1.090	0.000	1.090	0.691	0.000	0.691	1.781
Whiteside	195	3.772	0.000	3.772	0.020	389.836	389.856	393.628
Will	197	36.991	0.724	37.714	6.667	3,856.325	3,862.992	3,900.706
Williamson	199	0.121	1.109	1.230	0.084	206.221	206.305	207.535
Winnebago	201	28.831	0.000	28.831	1.437	946.868	948.306	977.136
Woodford	203	2.195	5.388	7.583	0.000	0.000	0.000	7.583
Statewide	Totals	356.688	1,151.596	1,508.282	156.714	51,763.614	51,920.332	53,428.610

### APPENDIX C: 2011 Township Water Withdrawals

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
ADAMS	01S	09W	1.671	0.000	1.671	0.000	0.000	0.000	1.671
	02N	05W	0.000	0.000	0.000	0.000	0.027	0.027	0.027
	02N	09W	0.012	0.000	0.012	0.000	0.000	0.000	0.012
	02S	09W	0.442	7.973	8.415	6.563	0.000	6.563	14.978
	03S	07W	0.081	0.000	0.081	0.000	0.000	0.000	0.081
TOTAL			2.205	7.973	10.178	6.563	0.027	6.591	16.769
ALEXANDER	14S	01W	0.000	0.000	0.000	0.001	0.000	0.001	0.001
	15S	02W	0.927	0.000	0.927	0.000	0.000	0.000	0.927
	15S	03W	0.044	0.000	0.044	0.000	0.000	0.000	0.044
	17S	01W	0.000	0.843	0.843	0.000	0.000	0.000	0.843
TOTAL			0.971	0.843	1.815	0.001	0.000	0.001	1.816
BOND	04N	04W	0.063	0.000	0.063	0.000	0.000	0.000	0.063
	06N	03W	0.000	1.226	1.226	0.000	0.000	0.000	1.226
TOTAL			0.063	1.226	1.289	0.000	0.000	0.000	1.289
BOONE	43N	03E	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	43N	04E	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	44N	03E	3.224	0.000	3.224	0.435	0.000	0.435	3.659
	45N	03E	0.499	0.000	0.499	0.000	0.000	0.000	0.499
	45N	04E	0.143	0.000	0.143	0.014	0.000	0.014	0.157
	46N	03E	0.000	0.000	0.000	0.002	0.000	0.002	0.002
TOTAL			3.865	0.000	3.865	0.451	0.000	0.451	4.316
BROWN	01S	02W	0.000	0.000	0.000	0.007	0.000	0.007	0.007
	02S	02W	0.047	0.000	0.047	0.000	0.000	0.000	0.047
TOTAL			0.047	0.000	0.047	0.007	0.000	0.007	0.055
BUREAU	15N	09E	0.058	0.000	0.058	0.000	0.000	0.000	0.058
	15N	10E	0.034	0.000	0.034	0.000	0.000	0.000	0.034
	16N	06E	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	16N	07E	0.118	0.000	0.118	0.000	0.000	0.000	0.118
	16N	08E	0.089	0.000	0.089	0.000	0.000	0.000	0.089
	16N	09E	0.937	0.000	0.937	0.000	0.000	0.000	0.937
	16N	10E	0.241	0.000	0.241	0.132	0.000	0.132	0.373
	16N	11E	0.958	0.000	0.958	0.036	0.000	0.036	0.994
	17N	07E	0.037	0.000	0.037	0.000	0.000	0.000	0.037
	17N	09E	0.018	0.000	0.018	0.000	0.000	0.000	0.018
	17N	10E	0.033	0.000	0.033	0.000	0.000	0.000	0.033
	17N	11E	0.012	0.000	0.012	0.000	0.000	0.000	0.012
	18N	08E	0.152	0.000	0.152	0.002	0.000	0.002	0.154
	18N	09E	0.057	0.000	0.057	0.000	0.000	0.000	0.057
18N	10E	0.068	0.000	0.068	0.000	0.000	0.000	0.068	
TOTAL			2.812	0.000	2.812	0.170	0.000	0.170	2.982

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
CALHOUN	09S	02W	0.059	0.000	0.059	0.000	0.000	0.000	0.059
	11S	02W	0.168	0.000	0.168	0.000	0.000	0.000	0.168
	12S	02W	0.051	0.000	0.051	0.000	0.000	0.000	0.051
	13S	01W	0.016	0.000	0.016	0.000	0.000	0.000	0.016
TOTAL			0.293	0.000	0.293	0.000	0.000	0.000	0.293
CARROLL	23N	03E	0.102	0.000	0.102	2.736	0.000	2.736	2.838
	23N	05E	0.048	0.000	0.048	0.000	0.000	0.000	0.048
	23N	06E	0.089	0.000	0.089	0.000	0.000	0.000	0.089
	24N	03E	0.437	0.000	0.437	0.070	0.000	0.070	0.507
	24N	04E	0.076	0.000	0.076	0.000	0.000	0.000	0.076
	24N	05E	0.047	0.000	0.047	0.000	0.000	0.000	0.047
	25N	07E	0.126	0.000	0.126	0.000	0.000	0.000	0.126
TOTAL			0.926	0.000	0.926	2.805	0.000	2.805	3.731
CASS	17N	12W	0.036	0.000	0.036	0.000	0.000	0.000	0.036
	18N	10W	0.207	0.000	0.207	0.000	0.000	0.000	0.207
	18N	12W	0.624	0.000	0.624	1.728	0.000	1.728	2.353
	19N	10W	0.044	0.000	0.044	0.000	0.000	0.000	0.044
TOTAL			0.911	0.000	0.911	1.728	0.000	1.728	2.639
CHAMPAIGN	17N	07E	0.031	0.000	0.031	0.000	0.000	0.000	0.031
	17N	08E	0.028	0.000	0.028	0.000	0.000	0.000	0.028
	18N	07E	0.000	0.000	0.000	0.003	0.000	0.003	0.003
	18N	08E	0.002	0.000	0.002	0.000	0.000	0.000	0.002
	18N	10E	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	18N	14W	0.049	0.000	0.049	0.000	0.000	0.000	0.049
	19N	07E	4.500	0.000	4.500	0.000	0.000	0.000	4.500
	19N	08E	7.357	0.000	7.357	2.652	0.000	2.652	10.009
	19N	09E	0.434	0.000	0.434	0.012	0.000	0.012	0.447
	19N	14W	0.114	0.000	0.114	0.000	0.000	0.000	0.114
	20N	07E	3.039	0.000	3.039	0.090	0.002	0.092	3.130
	20N	08E	6.038	0.000	6.038	0.000	0.000	0.000	6.038
	20N	09E	0.021	0.000	0.021	0.000	0.000	0.000	0.021
	20N	14W	0.031	0.000	0.031	0.000	0.000	0.000	0.031
	21N	09E	1.175	0.000	1.175	0.000	0.000	0.000	1.175
	21N	10E	0.072	0.000	0.072	0.000	0.000	0.000	0.072
	21N	14W	0.015	0.000	0.015	0.000	0.000	0.000	0.015
	22N	07E	0.144	0.000	0.144	0.000	0.000	0.000	0.144
	22N	08E	0.009	0.000	0.009	0.000	0.000	0.000	0.009
22N	09E	0.319	0.000	0.319	0.000	0.000	0.000	0.319	
22N	10E	0.005	0.000	0.005	0.002	0.000	0.002	0.007	
TOTAL			23.384	0.000	23.384	2.760	0.002	2.762	26.146

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
CHRISTIAN	12N	03W	0.019	0.000	0.019	0.000	0.000	0.000	0.019
	13N	01W	1.028	0.000	1.028	0.000	0.000	0.000	1.028
	13N	02W	0.425	0.558	0.983	0.000	0.000	0.000	0.983
	13N	04W	0.000	0.000	0.000	0.000	760.793	760.793	760.793
	14N	01E	0.178	0.000	0.178	0.000	0.000	0.000	0.178
	14N	01W	0.087	0.000	0.087	0.000	0.000	0.000	0.087
	14N	03W	0.111	0.000	0.111	0.000	0.000	0.000	0.111
	16N	02W	0.052	0.000	0.052	0.000	0.000	0.000	0.052
TOTAL			1.901	0.558	2.459	0.000	760.793	760.793	763.252
CLARK	09N	11W	0.049	0.000	0.049	0.000	0.000	0.000	0.049
	10N	11W	0.621	0.000	0.621	0.000	0.000	0.000	0.621
	10N	13W	0.475	0.000	0.475	0.000	0.000	0.000	0.475
	11N	11W	0.595	0.000	0.595	0.000	0.000	0.000	0.595
	12N	14W	0.044	0.000	0.044	0.000	0.000	0.000	0.044
TOTAL			1.785	0.000	1.785	0.000	0.000	0.000	1.785
CLAY	05N	05E	0.009	0.000	0.009	0.000	0.000	0.000	0.009
CLINTON	01N	03W	0.064	0.000	0.064	0.000	0.000	0.000	0.064
	01N	04W	0.064	0.000	0.064	0.531	0.000	0.531	0.595
	01N	05W	0.000	0.000	0.000	0.090	0.000	0.090	0.090
	02N	02W	0.000	1.039	1.039	0.000	0.000	0.000	1.039
	02N	04W	0.123	0.734	0.857	0.000	0.000	0.000	0.857
	02N	05W	0.096	0.000	0.096	0.000	0.000	0.000	0.096
	03N	01W	0.000	1.177	1.177	0.000	0.000	0.000	1.177
	03N	02W	0.000	3.733	3.733	0.000	0.000	0.000	3.733
TOTAL			0.346	6.683	7.029	0.621	0.000	0.621	7.650
COLES	11N	07E	0.406	2.092	2.497	0.000	0.000	0.000	2.497
	12N	09E	0.000	1.610	1.610	0.000	0.000	0.000	1.610
	12N	10E	0.000	0.000	0.000	0.000	0.003	0.003	0.003
	12N	11E	0.072	0.000	0.072	0.000	0.000	0.000	0.072
	13N	07E	0.029	0.000	0.029	0.000	0.000	0.000	0.029
TOTAL			0.507	3.701	4.208	0.000	0.003	0.003	4.211
COOK	35N	13E	2.940	0.000	2.940	0.003	0.000	0.003	2.944
	35N	14E	1.551	0.000	1.551	0.020	0.000	0.020	1.570
	35N	15E	0.149	0.000	0.149	0.000	0.000	0.000	0.149
	36N	12E	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	36N	13E	0.000	0.000	0.000	0.042	0.000	0.042	0.042
	36N	14E	0.000	0.000	0.000	0.000	2.422	2.422	2.422
	37N	11E	1.744	0.000	1.744	0.099	0.000	0.099	1.843
	37N	12E	0.011	0.000	0.011	0.000	0.000	0.000	0.011
	37N	13E	0.000	0.000	0.000	0.000	3.073	3.073	3.073



APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
COOK (cont)	37N	14E	0.000	0.000	0.000	0.000	9.653	9.653	9.653
	37N	15E	0.000	0.000	0.000	0.000	8.879	8.879	8.879
	38N	12E	1.328	0.000	1.328	2.698	41.425	44.123	45.451
	38N	14E	0.000	0.000	0.000	0.000	249.536	249.536	249.536
	38N	15E	0.000	290.753	290.753	0.000	0.000	0.000	290.753
	39N	12E	0.026	0.000	0.026	0.000	0.000	0.000	0.027
	39N	14E	0.000	53.068	53.068	0.000	421.359	421.359	474.427
	40N	12E	0.000	0.000	0.000	0.005	0.000	0.005	0.005
	40N	15E	0.000	449.488	449.488	0.000	0.000	0.000	449.488
	41N	09E	0.241	0.000	0.241	0.000	0.006	0.006	0.246
	41N	10E	0.029	0.000	0.029	0.000	0.000	0.000	0.029
	41N	11E	0.349	0.000	0.349	0.001	0.000	0.001	0.350
	41N	13E	0.000	0.000	0.000	0.000	4.032	4.032	4.032
	41N	14E	0.000	38.441	38.441	0.000	27.726	27.726	66.167
	42N	09E	0.728	0.000	0.728	0.170	0.000	0.170	0.898
	42N	10E	0.027	0.000	0.027	0.000	0.000	0.000	0.027
	42N	11E	0.184	0.000	0.184	0.001	0.000	0.001	0.185
	42N	12E	0.013	0.000	0.013	0.129	0.000	0.129	0.142
42N	13E	0.000	22.001	22.001	0.000	0.000	0.000	22.001	
<b>TOTAL</b>			<b>9.320</b>	<b>853.751</b>	<b>863.071</b>	<b>3.170</b>	<b>768.110</b>	<b>771.280</b>	<b>1634.351</b>
CRAWFORD	06N	10W	0.462	0.000	0.462	0.000	0.000	0.000	0.462
	07N	11W	1.760	0.000	1.760	2.628	2.179	4.807	6.567
	08N	11W	0.057	0.000	0.057	0.001	0.000	0.001	0.059
<b>TOTAL</b>			<b>2.279</b>	<b>0.000</b>	<b>2.279</b>	<b>2.629</b>	<b>2.179</b>	<b>4.809</b>	<b>7.088</b>
CUMBERLAND	09N	09E	0.127	0.000	0.127	0.000	0.000	0.000	0.127
	10N	09E	0.150	0.000	0.150	0.000	0.000	0.000	0.150
<b>TOTAL</b>			<b>0.277</b>	<b>0.000</b>	<b>0.277</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.277</b>
DEKALB	37N	04E	0.000	0.000	0.000	0.018	0.000	0.018	0.018
	37N	05E	0.987	0.000	0.987	0.000	0.000	0.000	0.987
	38N	03E	0.076	0.000	0.076	0.000	0.000	0.000	0.076
	38N	04E	0.143	0.000	0.143	0.003	0.000	0.003	0.146
	38N	05E	0.155	0.000	0.155	0.000	0.000	0.000	0.155
	40N	03E	0.096	0.000	0.096	0.020	0.000	0.020	0.116
	40N	04E	4.155	0.000	4.155	0.000	0.000	0.000	4.155
	40N	05E	1.190	0.000	1.190	0.000	2.231	2.231	3.421
	41N	03E	0.000	0.000	0.000	0.046	0.000	0.046	0.046
	41N	04E	0.000	0.000	0.000	0.000	0.838	0.838	0.838
	41N	05E	0.421	0.000	0.421	0.000	0.000	0.000	0.421
	42N	03E	0.113	0.000	0.113	0.000	0.000	0.000	0.113
42N	04E	0.071	0.000	0.071	0.000	0.000	0.000	0.071	
42N	05E	0.454	0.000	0.454	0.000	0.000	0.000	0.454	
<b>TOTAL</b>			<b>7.860</b>	<b>0.000</b>	<b>7.860</b>	<b>0.087</b>	<b>3.069</b>	<b>3.157</b>	<b>11.017</b>

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
DEWITT	19N	01E	0.022	0.000	0.022	0.000	0.000	0.000	0.022
	19N	03E	3.663	0.000	3.663	0.000	0.000	0.000	3.663
	19N	04E	0.019	0.000	0.019	0.000	0.000	0.000	0.019
	20N	02E	0.866	0.000	0.866	0.000	0.000	0.000	0.866
	20N	03E	0.019	0.000	0.019	0.002	773.785	773.787	773.806
	21N	01E	0.030	0.000	0.030	0.000	0.000	0.000	0.030
	21N	02E	0.053	0.000	0.053	0.000	0.000	0.000	0.053
	21N	05E	0.205	0.000	0.205	0.000	0.000	0.000	0.205
TOTAL			4.877	0.000	4.877	0.002	773.785	773.787	778.664
DOUGLAS	15N	07E	0.211	0.000	0.211	0.000	0.000	0.000	0.211
	15N	09E	0.000	0.000	0.000	0.000	0.026	0.026	0.026
	16N	07E	0.124	0.000	0.124	0.000	1.367	1.367	1.490
	16N	09E	0.279	0.000	0.279	0.000	0.000	0.000	0.280
	16N	10E	0.009	0.000	0.009	0.000	0.000	0.000	0.009
TOTAL			0.623	0.000	0.623	0.000	1.392	1.393	2.016
DUPAGE	37N	11E	0.000	0.000	0.000	0.000	0.466	0.467	0.467
	38N	09E	0.284	0.000	0.284	0.008	0.767	0.775	1.059
	38N	10E	0.187	0.000	0.187	0.001	0.000	0.001	0.187
	38N	11E	0.184	0.000	0.184	0.039	0.000	0.039	0.224
	39N	09E	3.614	0.000	3.614	0.126	0.000	0.126	3.740
	39N	10E	0.030	0.000	0.030	0.028	0.011	0.039	0.069
	39N	11E	0.239	0.000	0.239	0.000	0.000	0.000	0.239
	40N	09E	1.747	0.000	1.747	0.002	0.000	0.002	1.748
	40N	10E	0.124	0.000	0.124	0.000	0.000	0.000	0.124
	40N	11E	0.080	0.000	0.080	0.004	0.000	0.004	0.084
TOTAL			6.490	0.000	6.490	0.207	1.244	1.451	7.941
EDGAR	13N		0.267	0.000	0.267	0.000	0.000	0.000	0.267
	13N	09W	0.804	0.000	0.804	0.000	0.000	0.000	0.804
	13N	14W	0.054	0.000	0.054	0.000	0.000	0.000	0.054
	14N	13W	0.006	0.000	0.006	0.000	0.000	0.000	0.006
	14N	14W	0.000	0.000	0.000	0.003	0.000	0.003	0.003
	15N	14W	0.031	0.000	0.031	0.000	0.000	0.000	0.031
	16N	12W	0.111	0.000	0.111	0.000	0.000	0.000	0.111
	16N	13W	0.041	0.000	0.041	0.000	0.000	0.000	0.041
TOTAL			1.314	0.000	1.314	0.003	0.000	0.003	1.317
EDWARDS	01S	14W	0.017	0.000	0.017	0.000	0.000	0.000	0.017
EFFINGHAM	07N	04E	0.000	0.230	0.230	0.000	0.000	0.000	0.230
	07N	07E	0.012	0.000	0.012	0.000	0.000	0.000	0.012
	08N	05E	0.000	2.078	2.078	0.000	0.000	0.000	2.078
	08N	06E	0.021	0.000	0.021	0.000	0.000	0.000	0.021
	08N	07E	0.063	0.000	0.063	0.000	0.000	0.000	0.063
	09N	04E	0.000	0.015	0.015	0.000	0.000	0.000	0.015
TOTAL			0.096	2.322	2.419	0.000	0.000	0.000	2.419

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
FAYETTE	05N	04E	0.000	0.123	0.123	0.000	0.000	0.000	0.123
	06N	01E	0.000	0.112	0.112	0.000	0.000	0.000	0.112
	07N	01E	0.000	0.859	0.859	0.000	0.000	0.000	0.859
	08N	01E	0.012	0.000	0.012	0.000	0.000	0.000	0.012
	08N	01W	0.013	0.000	0.013	0.000	0.000	0.000	0.013
	08N	02E	0.527	0.000	0.527	0.000	0.000	0.000	0.527
	09N	02E	0.047	0.000	0.047	0.000	0.000	0.000	0.047
TOTAL			0.598	1.094	1.692	0.000	0.000	0.000	1.692
FORD	23N	07E	0.668	0.000	0.668	0.432	0.000	0.432	1.100
	23N	08E	0.020	0.000	0.020	0.000	0.000	0.000	0.020
	23N	09E	0.515	0.000	0.515	1.026	0.000	1.026	1.541
	24N	08E	0.036	0.000	0.036	0.000	0.000	0.000	0.036
	25N	07E	0.023	0.000	0.023	0.000	0.000	0.000	0.023
	25N	09E	0.036	0.000	0.036	0.000	0.000	0.000	0.036
	26N	09E	0.073	0.000	0.073	0.000	0.000	0.000	0.073
	28N	09E	0.010	0.000	0.010	0.000	0.000	0.000	0.010
	29N	09E	0.035	0.000	0.035	0.000	0.000	0.000	0.035
TOTAL			1.416	0.000	1.416	1.458	0.000	1.458	2.874
FRANKLIN	05S	02E	0.000	14.404	14.404	0.000	0.000	0.000	14.404
FULTON	05N	03E	0.323	0.000	0.323	0.000	0.000	0.000	0.323
	06N	01E	0.000	0.000	0.000	0.001	0.000	0.001	0.001
	06N	02E	0.018	0.000	0.018	0.000	0.000	0.000	0.018
	06N	04E	0.015	0.000	0.015	0.000	0.000	0.000	0.015
	06N	05E	0.076	0.000	0.076	0.000	241.096	241.096	241.172
	07N	05E	0.000	2.126	2.126	0.000	0.000	0.000	2.126
	08N	02E	0.044	0.000	0.044	0.000	0.000	0.000	0.044
TOTAL			0.477	2.126	2.602	0.001	241.096	241.097	243.699
GALLATIN	08S	09E	0.099	0.000	0.099	0.000	0.000	0.000	0.099
	09S	09E	3.545	0.000	3.545	0.000	0.000	0.000	3.545
	09S	10E	0.028	0.000	0.028	0.000	0.000	0.000	0.028
TOTAL			3.671	0.000	3.671	0.000	0.000	0.000	3.671
GREENE	09N	11W	0.034	0.000	0.034	0.000	0.000	0.000	0.034
	10N	10W	0.000	0.086	0.086	0.000	0.000	0.000	0.086
	10N	13W	0.693	0.000	0.693	0.000	0.000	0.000	0.693
	12N	13W	0.009	0.000	0.009	0.000	0.000	0.000	0.009
TOTAL			0.736	0.086	0.821	0.000	0.000	0.000	0.821
GRUNDY	31N	06E	0.008	0.000	0.008	0.000	0.000	0.000	0.008
	31N	08E	0.221	0.000	0.221	0.000	0.000	0.000	0.221
	32N	06E	0.008	0.000	0.008	0.000	0.000	0.000	0.008
	32N	07E	0.093	0.000	0.093	0.000	0.000	0.000	0.093

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
GRUNDY (cont.)	32N	08E	0.188	0.000	0.188	0.000	0.000	0.000	0.188
	33N	06E	0.025	0.000	0.025	0.069	0.000	0.069	0.094
	33N	07E	1.885	0.000	1.885	0.001	0.000	0.001	1.886
	33N	08E	0.642	0.000	0.642	0.000	11.631	11.632	12.273
	34N	06E	0.000	0.000	0.000	0.001	0.000	0.001	0.001
	34N	07E	0.030	0.000	0.030	0.004	0.000	0.004	0.034
	34N	08E	0.530	0.000	0.530	5.380	480.968	486.348	486.879
TOTAL			3.630	0.000	3.630	5.456	492.600	498.056	501.685
HAMILTON			0.000	0.000	0.000	0.000	0.000	0.000	0.000
HANCOCK	04N	05W	0.036	0.000	0.036	0.000	0.000	0.000	0.036
	04N	09W	0.235	0.137	0.372	0.000	0.000	0.000	0.372
	05N	07W	0.000	0.204	0.204	0.000	0.000	0.000	0.204
	05N	08W	0.000	0.275	0.275	0.000	0.000	0.000	0.275
	05N	09W	0.000	0.000	0.000	0.000	34219.894	34219.894	34219.894
	06N	09W	0.000	0.114	0.114	0.000	0.000	0.000	0.114
	07N	05W	0.042	0.065	0.107	0.000	0.000	0.000	0.107
TOTAL			0.312	0.795	1.107	0.000	34219.894	34219.894	34221.001
HARDIN			0.167	0.000	0.167	0.000	0.000	0.000	0.167
HENDERSON	08N	06W	0.567	0.000	0.567	0.000	0.000	0.000	0.567
	09N	05W	0.069	0.000	0.069	0.000	0.000	0.000	0.069
	10N	05W	0.024	0.000	0.024	0.000	0.000	0.000	0.024
	11N	05W	4.912	0.000	4.912	0.000	0.000	0.000	4.912
TOTAL			5.573	0.000	5.573	0.000	0.000	0.000	5.573
HENRY	14N	01E	0.060	0.000	0.060	0.000	0.000	0.000	0.060
	14N	02E	0.082	0.000	0.082	0.000	0.000	0.000	0.082
	14N	03E	0.028	0.000	0.028	0.000	0.000	0.000	0.028
	14N	04E	0.262	0.000	0.262	0.740	0.000	0.740	1.001
	14N	05E	0.956	0.000	0.956	0.001	0.000	0.001	0.957
	15N	01E	0.016	0.000	0.016	0.000	0.000	0.000	0.016
	15N	02E	0.042	0.000	0.042	0.000	0.000	0.000	0.042
	15N	03E	0.198	0.000	0.198	0.000	0.000	0.000	0.198
	15N	05E	0.950	0.000	0.950	0.000	0.000	0.000	0.950
	16N	01E	0.108	0.000	0.108	0.000	0.000	0.000	0.108
	16N	02E	0.008	0.000	0.008	0.000	0.000	0.000	0.008
	16N	05E	0.073	0.000	0.073	0.001	0.000	0.001	0.074
	17N	01E	1.369	0.000	1.369	0.000	0.000	0.000	1.369
	17N	02E	0.000	0.000	0.000	0.008	0.000	0.008	0.008
	17N	03E	0.664	0.000	0.664	0.000	0.000	0.000	0.664
17N	04E	0.104	0.000	0.104	0.000	0.000	0.000	0.104	

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
HENRY (cont.)	17N	05E	0.000	0.000	0.000	0.728	0.000	0.728	0.728
	18N	02E	0.039	0.000	0.039	0.000	0.000	0.000	0.039
	18N	03E	0.053	0.000	0.053	0.000	0.000	0.000	0.053
TOTAL			5.011	0.000	5.011	1.478	0.000	1.478	6.489
IROQUOIS	24N	10E	0.094	0.000	0.094	0.000	0.000	0.000	0.094
	24N	12W	0.021	0.000	0.021	0.000	0.000	0.000	0.021
	24N	14W	0.079	0.000	0.079	0.000	0.000	0.000	0.079
	25N	10E	0.101	0.000	0.101	0.000	0.000	0.000	0.101
	25N	11W	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	25N	12W	0.160	0.000	0.160	0.000	0.000	0.000	0.160
	26N	11E	0.160	0.000	0.160	0.000	0.000	0.000	0.160
	26N	11W	0.151	0.000	0.151	0.000	0.000	0.000	0.151
	26N	12W	0.044	0.000	0.044	0.000	0.000	0.000	0.044
	26N	13W	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	26N	14W	0.208	0.000	0.208	0.000	0.000	0.000	0.208
	27N	12W	0.714	0.000	0.714	0.000	0.000	0.000	0.714
	27N	13W	0.056	0.000	0.056	0.000	0.000	0.000	0.056
	27N	14W	0.052	0.000	0.052	0.000	0.000	0.000	0.052
	28N	11W	0.042	0.000	0.042	0.002	0.000	0.002	0.044
	28N	12W	0.028	0.000	0.028	0.000	0.000	0.000	0.028
	28N	14W	0.239	0.000	0.239	0.000	0.000	0.000	0.239
	29N	12W	0.029	0.000	0.029	0.000	0.000	0.000	0.029
	29N	13W	0.005	0.000	0.005	0.000	0.000	0.000	0.005
29N	14W	0.052	0.000	0.052	0.000	0.000	0.000	0.052	
TOTAL			2.236	0.000	2.236	0.003	0.000	0.003	2.238
JACKSON	09S	03W	0.000	0.000	0.000	0.356	0.000	0.356	0.356
	09S	04W	0.000	0.000	0.000	0.417	0.000	0.417	0.417
	10S	01W	0.000	0.000	0.000	0.000	0.027	0.027	0.027
	10S	02W	0.000	4.196	4.196	0.000	0.000	0.000	4.196
	10S	04W	0.066	0.000	0.066	0.045	56.971	57.015	57.081
TOTAL			0.066	4.196	4.262	0.818	56.998	57.816	62.078
JASPER	06N	08E	0.000	0.000	0.000	0.000	1605.068	1605.068	1605.068
	06N	14W	0.008	0.000	0.008	0.000	0.000	0.000	0.008
	07N	09E	0.508	0.000	0.508	0.000	0.000	0.000	0.508
	07N	10E	0.248	0.000	0.248	0.000	0.000	0.000	0.248
	07N	11E	0.018	0.000	0.018	0.000	0.000	0.000	0.018
	08N	09E	0.448	0.000	0.448	0.000	0.000	0.000	0.448
TOTAL			1.230	0.000	1.230	0.000	1605.068	1605.068	1606.298
JEFFERSON			0.000	0.000	0.000	0.000	0.000	0.000	0.000
JERSEY			0.000	0.000	0.000	0.000	0.000	0.000	0.000

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
JODAVIESS	26N	02E	0.073	0.000	0.073	0.003	0.000	0.003	0.076
	27N	01E	0.000	0.000	0.000	0.011	0.000	0.011	0.011
	27N	02E	0.059	0.000	0.059	0.000	0.000	0.000	0.059
	27N	04E	0.379	0.000	0.379	0.000	0.000	0.000	0.379
	28N	01W	0.401	0.000	0.401	0.000	0.000	0.000	0.401
	28N	02E	0.313	0.000	0.313	0.001	0.000	0.001	0.314
	28N	02W	0.000	0.000	0.000	1.646	0.000	1.646	1.646
	28N	03E	0.147	0.000	0.147	0.000	0.000	0.000	0.147
	29N	02E	0.044	0.000	0.044	0.000	0.000	0.000	0.044
	29N	02W	0.283	0.000	0.283	0.000	0.000	0.000	0.283
	29N	04E	0.150	0.000	0.150	0.000	0.000	0.000	0.150
TOTAL			1.849	0.000	1.849	1.661	0.000	1.661	3.510
JOHNSON	13S	03E	0.000	0.179	0.179	0.000	0.000	0.000	0.179
	13S	04E	0.000	0.583	0.583	0.000	0.000	0.000	0.583
	14S	02E	0.068	0.000	0.068	0.000	0.000	0.000	0.068
TOTAL			0.068	0.762	0.830	0.000	0.000	0.000	0.830
KANE	38N	07E	4.298	0.000	4.298	0.057	0.000	0.057	4.355
	38N	08E	7.833	9.701	17.534	0.582	0.000	0.582	18.116
	39N	07E	0.565	0.000	0.565	0.353	0.000	0.353	0.918
	39N	08E	7.361	0.000	7.361	0.047	0.004	0.051	7.412
	40N	06E	0.084	0.000	0.084	0.003	0.000	0.003	0.087
	40N	07E	0.478	0.000	0.478	0.000	0.000	0.000	0.478
	40N	08E	4.688	0.000	4.688	0.002	0.000	0.002	4.690
	41N	06E	0.086	0.000	0.086	0.000	0.000	0.000	0.086
	41N	07E	0.000	0.000	0.000	0.006	0.000	0.006	0.006
	41N	08E	1.713	13.414	15.127	0.148	0.151	0.298	15.425
	42N	06E	0.520	0.000	0.520	0.008	0.000	0.008	0.528
	42N	07E	2.198	0.000	2.198	0.000	0.000	0.000	2.198
	42N	08E	5.430	0.000	5.430	0.002	0.000	0.002	5.432
TOTAL			35.253	23.115	58.368	1.209	0.154	1.363	59.731
KANKAKEE	29N	12W	0.231	0.000	0.231	0.000	0.000	0.000	0.231
	29N	13W	0.002	0.000	0.002	0.000	0.000	0.000	0.002
	29N	14W	0.005	0.000	0.005	0.000	0.000	0.000	0.005
	30N	09E	0.037	0.000	0.037	0.000	0.000	0.000	0.037
	30N	10E	0.123	0.000	0.123	0.000	0.000	0.000	0.123
	30N	12W	0.016	0.000	0.016	0.000	0.000	0.000	0.016
	30N	13W	0.018	11.639	11.658	0.049	0.000	0.049	11.706
	30N	14W	0.000	0.000	0.000	3.414	0.000	3.414	3.414
	31N	09E	0.000	0.033	0.033	0.000	0.000	0.000	0.033
	31N	12E	0.017	0.000	0.017	0.000	0.000	0.000	0.017
	31N	13E	0.770	0.000	0.770	0.003	0.000	0.003	0.772

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
KANKAKEE (cont.)	32N	11E	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	32N	12E	0.039	0.000	0.039	0.000	3.701	3.702	3.740
	32N	13E	0.022	0.000	0.022	0.000	0.000	0.000	0.022
	32N	14E	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>TOTAL</b>			1.281	11.672	12.953	3.466	3.701	7.168	20.121
KENDALL	35N	06E	0.071	0.000	0.071	0.000	0.000	0.000	0.071
	35N	08E	2.011	0.000	2.011	0.000	1.415	1.416	3.427
	36N	06E	0.000	0.000	0.000	0.024	0.000	0.024	0.024
	36N	07E	0.350	0.000	0.350	0.000	0.000	0.000	0.350
	36N	08E	1.009	0.000	1.009	0.000	0.000	0.000	1.009
	37N	06E	0.517	0.000	0.517	0.001	0.000	0.001	0.518
	37N	07E	1.647	0.000	1.647	0.000	0.000	0.000	1.647
	37N	08E	2.393	0.000	2.393	0.326	0.000	0.326	2.719
<b>TOTAL</b>			7.997	0.000	7.997	0.351	1.415	1.767	9.763
KNOX	09N	04E	0.051	0.000	0.051	0.000	0.000	0.000	0.051
	10N	01E	0.001	0.000	0.001	0.000	0.000	0.000	0.001
	11N	02E	0.001	0.000	0.001	0.000	0.000	0.000	0.001
	11N	03E	0.061	0.000	0.061	0.000	0.000	0.000	0.061
	12N	02E	0.061	0.000	0.061	0.000	0.000	0.000	0.061
	12N	03E	0.041	0.000	0.041	0.000	0.000	0.000	0.041
	13N	01E	0.013	0.000	0.013	0.000	0.000	0.000	0.013
	13N	02E	0.016	0.000	0.016	0.000	0.000	0.000	0.016
13N	03E	0.019	0.000	0.019	0.000	0.000	0.000	0.019	
<b>TOTAL</b>			0.263	0.000	0.263	0.000	0.000	0.000	0.263
LAKE	43N	09E	1.414	0.000	1.414	0.018	0.000	0.018	1.432
	43N	10E	2.225	0.000	2.225	0.054	0.000	0.054	2.279
	43N	11E	0.527	0.000	0.527	0.012	0.014	0.026	0.553
	43N	12E	0.000	9.988	9.988	0.009	0.000	0.009	9.997
	44N	09E	1.493	0.000	1.493	0.000	0.000	0.000	1.493
	44N	10E	0.439	0.000	0.439	0.007	0.027	0.034	0.473
	44N	11E	0.084	0.000	0.084	0.432	0.000	0.432	0.516
	44N	12E	0.008	29.329	29.337	0.025	10.655	10.679	40.016
	45N	09E	1.107	0.000	1.107	0.241	0.000	0.241	1.348
	45N	10E	1.035	0.000	1.035	0.000	0.000	0.000	1.035
	45N	11E	0.352	0.000	0.352	0.078	0.000	0.078	0.430
	45N	12E	0.000	8.535	8.535	0.000	607.937	607.937	616.472
	46N	09E	0.173	0.000	0.173	0.000	0.000	0.000	0.173
	46N	10E	2.056	0.000	2.056	0.000	0.000	0.000	2.056
46N	11E	0.010	0.000	0.010	0.157	0.000	0.157	0.167	
46N	12E	0.004	2.756	2.760	0.000	28.000	28.000	30.760	
<b>TOTAL</b>			10.929	50.607	61.536	1.032	646.633	647.664	709.200

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
LASALLE	29N	02E	0.028	0.000	0.028	0.000	0.000	0.000	0.028
	31N	02E	0.010	0.000	0.010	0.000	0.000	0.000	0.010
	31N	05E	0.042	0.000	0.042	0.000	0.000	0.000	0.042
	32N	01E	0.104	0.000	0.104	0.000	0.000	0.000	0.104
	32N	03E	0.049	0.000	0.049	0.000	0.000	0.000	0.049
	32N	05E	0.000	0.000	0.000	0.148	1521.125	1521.273	1521.273
	33N	01E	6.186	0.000	6.186	0.012	0.000	0.012	6.198
	33N	02E	0.286	0.000	0.286	0.007	0.000	0.007	0.293
	33N	03E	0.054	0.000	0.054	0.000	0.000	0.000	0.054
	33N	03E	0.000	0.000	0.000	0.000	11.345	11.345	11.345
	33N	04E	0.175	0.000	0.175	2.467	0.000	2.467	2.642
	33N	05E	0.536	0.000	0.536	0.103	64.392	64.495	65.031
	34N	03E	0.012	0.000	0.012	0.000	0.000	0.000	0.012
	34N	04E	0.004	0.000	0.004	0.006	857.383	857.388	857.392
	35N	01E	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	35N	02E	0.000	0.000	0.000	0.005	0.000	0.005	0.005
	35N	04E	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	35N	05E	0.206	0.000	0.206	0.071	0.000	0.071	0.277
	36N	01E	1.047	0.000	1.047	0.384	0.000	0.384	1.431
	36N	03E	0.118	0.000	0.118	0.000	0.000	0.000	0.118
36N	04E	0.067	0.000	0.067	0.000	0.000	0.000	0.067	
36N	05E	0.400	0.000	0.400	0.000	0.000	0.000	0.400	
TOTAL			9.320	0.000	9.320	3.203	2454.245	2457.448	2466.768
LAWRENCE	02N	11W	0.398	0.000	0.398	0.000	0.000	0.000	0.398
	03N	11W	0.959	0.000	0.959	0.000	0.000	0.000	0.959
TOTAL			1.357	0.000	1.357	0.000	0.000	0.000	1.357
LEE	19N	10E	0.285	0.000	0.285	0.000	0.000	0.000	0.285
	19N	11E	0.043	0.000	0.043	0.000	0.000	0.000	0.043
	20N	08E	0.009	0.000	0.009	0.012	0.000	0.012	0.021
	20N	10E	0.372	0.000	0.372	0.045	0.000	0.045	0.417
	21N	08E	0.065	0.000	0.065	0.009	0.000	0.009	0.075
	21N	09E	1.313	0.000	1.313	0.000	0.000	0.000	1.313
	21N	10E	0.073	0.000	0.073	0.000	0.000	0.000	0.073
	22N	09E	1.568	0.000	1.568	0.000	0.000	0.000	1.568
	22N	11E	0.158	0.000	0.158	0.001	0.000	0.001	0.159
	37N	01E	0.039	0.000	0.039	0.000	0.000	0.000	0.039
	37N	02E	0.081	0.000	0.081	0.000	0.000	0.000	0.081
	39N	02E	0.022	0.000	0.022	0.000	0.000	0.000	0.022
TOTAL			4.028	0.000	4.028	0.068	0.000	0.068	4.096



APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
LIVINGSTON	25N	07E	0.010	0.000	0.010	0.000	0.000	0.000	0.010
	26N	06E	0.440	0.000	0.440	0.000	0.000	0.000	0.440
	26N	07E	0.109	0.000	0.109	0.000	0.000	0.000	0.109
	26N	08E	0.030	0.000	0.030	0.000	0.000	0.000	0.030
	27N	05E	0.005	0.000	0.005	0.000	0.000	0.000	0.005
	27N	08E	0.089	0.000	0.089	0.000	0.000	0.000	0.089
	28N	03E	0.100	0.000	0.100	0.000	0.000	0.000	0.100
	28N	05E	0.000	1.340	1.340	0.035	0.000	0.035	1.375
	28N	07E	0.038	0.000	0.038	0.000	0.000	0.000	0.038
	29N	04E	0.030	0.000	0.030	0.000	0.000	0.000	0.030
	30N	03E	0.000	0.469	0.469	0.000	0.000	0.000	0.469
	30N	04E	0.000	1.517	1.517	0.000	0.000	0.000	1.517
	30N	06E	0.055	0.000	0.055	0.000	0.000	0.000	0.055
	30N	07E	0.639	0.000	0.639	0.000	0.000	0.000	0.639
30N	08E	0.020	0.000	0.020	0.000	0.000	0.000	0.020	
TOTAL			1.566	3.325	4.891	0.035	0.000	0.035	4.926
LOGAN	17N	01W	0.015	0.000	0.015	0.000	0.000	0.000	0.015
	18N	03W	0.000	0.000	0.000	0.147	0.923	1.070	1.070
	19N	01W	0.027	0.000	0.027	0.000	0.000	0.000	0.027
	19N	03W	1.831	0.000	1.831	0.000	0.000	0.000	1.831
	20N	03W	0.406	0.000	0.406	0.000	0.000	0.000	0.406
	20N	04W	0.023	0.000	0.023	0.000	0.000	0.000	0.023
	21N	03W	0.109	0.000	0.109	0.000	0.000	0.000	0.109
TOTAL			2.411	0.000	2.411	0.147	0.923	1.070	3.481
MCDONOUGH	04N	01W	0.000	0.059	0.059	0.000	0.000	0.000	0.059
	04N	02W	0.025	0.000	0.025	0.000	0.000	0.000	0.025
	05N	01W	0.000	0.000	0.000	0.003	0.000	0.003	0.003
	05N	03W	0.005	0.000	0.005	0.000	0.000	0.000	0.005
	06N	02W	0.284	0.000	0.284	0.000	0.000	0.000	0.284
	06N	03W	0.000	1.998	1.998	0.000	0.000	0.000	1.998
	07N	01W	0.370	0.000	0.370	0.000	0.000	0.000	0.370
	07N	04W	0.000	0.058	0.058	0.000	0.000	0.000	0.058
TOTAL			0.684	2.115	2.799	0.003	0.000	0.003	2.802
MCHENRY	43N	05E	0.000	0.000	0.000	0.010	0.000	0.010	0.010
	43N	06E	0.059	0.000	0.059	0.000	0.000	0.000	0.059
	43N	07E	4.426	0.000	4.426	0.001	0.000	0.001	4.427
	43N	08E	4.808	0.000	4.808	0.007	0.460	0.467	5.275
	43N	09E	0.419	0.000	0.419	0.000	0.000	0.000	0.419
	44N	05E	0.526	0.000	0.526	0.076	0.000	0.076	0.602
	44N	06E	0.152	0.000	0.152	0.196	0.000	0.196	0.348
	44N	07E	0.724	0.000	0.724	0.026	0.000	0.026	0.750

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
MCHENRY (cont.)	44N	08E	1.835	0.000	1.835	0.014	0.000	0.014	1.849
	44N	09E	0.502	0.000	0.502	0.000	0.000	0.000	0.502
	45N	05E	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	45N	06E	0.013	0.000	0.013	0.000	0.000	0.000	0.013
	45N	07E	2.198	0.000	2.198	0.001	0.000	0.001	2.199
	45N	08E	1.871	0.000	1.871	0.888	0.000	0.888	2.759
	45N	09E	0.513	0.000	0.513	0.001	0.000	0.001	0.513
	46N	05E	0.752	0.000	0.752	0.139	0.000	0.139	0.890
	46N	07E	0.122	0.000	0.122	0.000	0.000	0.000	0.122
	46N	08E	0.000	0.000	0.000	0.021	0.000	0.021	0.021
<b>TOTAL</b>			<b>18.920</b>	<b>0.000</b>	<b>18.920</b>	<b>1.380</b>	<b>0.460</b>	<b>1.840</b>	<b>20.760</b>
MCLEAN	21N	02E	0.173	0.000	0.173	0.000	0.000	0.000	0.173
	21N	06E	0.000	0.000	0.000	0.200	0.000	0.200	0.200
	22N	01W	0.082	0.000	0.082	0.000	0.000	0.000	0.082
	22N	02E	0.091	0.000	0.091	0.002	0.000	0.002	0.093
	22N	03E	0.074	0.000	0.074	0.000	0.000	0.000	0.074
	22N	04E	0.309	0.000	0.309	0.000	0.000	0.000	0.309
	22N	06E	0.029	0.000	0.029	0.000	0.000	0.000	0.029
	23N	01E	0.289	0.000	0.289	0.000	0.000	0.000	0.289
	23N	01W	0.511	0.000	0.511	0.000	0.000	0.000	0.511
	23N	02E	0.388	0.000	0.388	0.001	0.000	0.001	0.389
	23N	04E	0.014	0.000	0.014	0.000	0.000	0.000	0.014
	23N	05E	0.033	0.000	0.033	0.000	0.000	0.000	0.033
	24N	01E	0.032	0.000	0.032	0.000	0.000	0.000	0.032
	24N	01W	0.841	0.000	0.841	0.000	0.000	0.000	0.841
	24N	02E	2.266	0.000	2.266	0.052	0.000	0.052	2.318
	24N	04E	0.021	0.000	0.021	0.000	0.000	0.000	0.021
	24N	06E	0.016	0.000	0.016	0.000	0.000	0.000	0.016
	25N	01E	0.003	0.000	0.003	0.000	0.000	0.000	0.003
	25N	02E	0.000	5.388	5.388	0.000	0.000	0.000	5.388
	25N	03E	0.025	0.000	0.025	0.000	0.000	0.000	0.025
25N	04E	0.158	0.000	0.158	0.000	0.000	0.000	0.158	
25N	06E	0.004	0.000	0.004	0.000	0.000	0.000	0.004	
26N	03E	0.405	0.000	0.405	0.000	0.000	0.000	0.405	
26N	04E	0.021	0.000	0.021	0.000	0.000	0.000	0.021	
<b>TOTAL</b>			<b>5.784</b>	<b>5.388</b>	<b>11.172</b>	<b>0.255</b>	<b>0.000</b>	<b>0.255</b>	<b>11.427</b>
MACON	14N	01E	0.240	0.000	0.240	0.000	0.000	0.000	0.240
	15N	01E	0.120	0.000	0.120	0.000	0.000	0.000	0.120
	16N	01W	0.148	0.000	0.148	0.000	0.000	0.000	0.148
	16N	02E	0.000	21.525	21.525	0.000	0.000	0.000	21.525
	16N	03E	0.000	0.000	0.000	1.495	0.000	1.495	1.495
	17N	01E	0.098	0.000	0.098	0.000	0.000	0.000	0.098
	17N	03E	0.530	0.000	0.530	0.000	13.534	13.534	14.064
	18N	02E	0.195	0.000	0.195	0.000	0.000	0.000	0.195
<b>TOTAL</b>			<b>1.332</b>	<b>21.525</b>	<b>22.857</b>	<b>1.495</b>	<b>13.534</b>	<b>15.029</b>	<b>37.886</b>

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
MACOUPIN	07N	06W	0.000	0.721	0.721	0.000	0.000	0.000	0.721
	08N	07W	0.000	0.770	0.770	0.000	0.000	0.000	0.770
	09N	07W	0.000	0.871	0.871	0.000	1.099	1.099	1.970
	12N	07W	0.000	1.564	1.564	0.000	0.000	0.000	1.564
	12N	08W	0.000	0.127	0.127	0.000	0.000	0.000	0.127
TOTAL			0.000	4.053	4.053	0.000	1.099	1.099	5.151
MADISON	03N	06W	0.021	0.000	0.021	0.000	0.000	0.000	0.021
	03N	08W	3.985	0.000	3.985	0.000	0.000	0.000	3.985
	03N	09W	0.000	0.000	0.000	8.042	0.000	8.042	8.042
	03N	10W	0.000	0.000	0.000	2.894	7.575	10.469	10.469
	04N	05W	0.000	1.155	1.155	0.000	0.000	0.000	1.155
	04N	09W	6.239	0.000	6.239	0.001	0.000	0.001	6.239
	04N	10W	0.000	31.603	31.603	0.000	0.000	0.000	31.603
	05N	06W	0.047	0.000	0.047	0.000	0.000	0.000	0.047
	05N	09W	3.971	0.000	3.971	15.760	317.653	333.413	337.384
	05N	10W	0.000	8.600	8.600	0.000	0.000	0.000	8.600
	06N	08W	0.000	0.210	0.210	0.000	0.000	0.000	0.210
06N	10W	0.000	0.000	0.000	0.001	0.000	0.001	0.001	
TOTAL			14.262	41.569	55.831	26.697	325.228	351.925	407.756
MARION	02N	02E	0.000	0.976	0.976	0.000	0.000	0.000	0.976
	04N	03E	0.000	0.072	0.072	0.000	0.000	0.000	0.072
TOTAL			0.000	1.048	1.048	0.000	0.000	0.000	1.048
MARSHALL	12N	09E	0.134	0.000	0.134	0.000	0.000	0.000	0.134
	13N	08E	0.008	0.000	0.008	0.000	0.000	0.000	0.008
	13N	09E	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	13N	10E	0.421	0.000	0.421	0.672	0.000	0.672	1.093
	29N	01E	0.312	0.000	0.312	0.000	0.000	0.000	0.312
	29N	01W	0.009	0.000	0.009	0.000	0.000	0.000	0.009
	30N	01E	0.163	0.000	0.163	0.000	0.000	0.000	0.163
	30N	01W	0.121	0.000	0.121	0.000	0.000	0.000	0.121
30N	03W	0.462	0.000	0.462	0.000	0.000	0.000	0.462	
TOTAL			1.630	0.000	1.630	0.672	0.000	0.672	2.302
MASON	19N	09W	0.000	0.000	0.000	0.006	0.000	0.006	0.006
	19N	10W	0.000	0.000	0.000	0.017	0.000	0.017	0.017
	20N	05W	0.212	0.000	0.212	0.000	0.000	0.000	0.212
	20N	09W	0.000	0.000	0.000	0.063	0.000	0.063	0.063
	21N	05W	0.056	0.000	0.056	0.000	0.000	0.000	0.056
	21N	07W	0.027	0.000	0.027	0.000	0.000	0.000	0.027
	21N	08W	0.087	0.000	0.087	0.000	0.000	0.000	0.087
	21N	09W	0.174	0.000	0.174	1.102	21.600	22.702	22.876
	22N	07W	0.000	0.000	0.000	1.145	0.000	1.145	1.145
22N	09W	0.000	0.000	0.000	0.002	0.000	0.002	0.002	
TOTAL			0.555	0.000	0.555	2.335	21.600	23.935	24.490

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
MASSAC	14S	04E	1.209	0.000	1.209	0.000	0.000	0.000	1.209
	15S	03E	0.024	0.000	0.024	1.607	610.703	612.310	612.334
	15S	04E	0.000	0.000	0.000	3.456	0.000	3.456	3.456
	16S	04E	1.302	0.000	1.302	0.000	0.000	0.000	1.302
	16S	05E	0.086	0.000	0.086	0.000	0.000	0.000	0.086
TOTAL			2.622	0.000	2.622	5.063	610.703	615.766	618.388
MENARD	19N	05W	0.019	0.000	0.019	0.000	0.000	0.000	0.019
	19N	06W	0.078	0.000	0.078	0.000	0.000	0.000	0.078
	19N	07W	0.334	0.000	0.334	0.000	0.000	0.000	0.334
TOTAL			0.432	0.000	0.432	0.000	0.000	0.000	0.432
MERCER	13N	01W	0.011	0.000	0.011	0.000	0.000	0.000	0.011
	13N	05W	0.055	0.000	0.055	0.000	0.000	0.000	0.055
	14N	01W	0.058	0.000	0.058	0.000	0.000	0.000	0.058
	14N	02W	0.071	0.000	0.071	0.000	0.000	0.000	0.071
	14N	04W	0.056	0.000	0.056	0.000	0.000	0.000	0.056
	14N	05W	0.060	0.000	0.060	0.000	0.000	0.000	0.060
	15N	01W	0.094	0.000	0.094	0.000	0.000	0.000	0.094
	15N	02W	0.084	0.000	0.084	0.000	0.000	0.000	0.084
TOTAL			0.488	0.000	0.488	0.000	0.000	0.000	0.488
MONROE	03S	09W	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	03S	11W	0.344	0.000	0.344	0.000	0.000	0.000	0.344
	04S	11W	0.032	0.000	0.032	0.000	0.000	0.000	0.032
TOTAL			0.376	0.000	0.376	0.000	0.000	0.000	0.377
MONTGOMERY	07N	03W	0.000	0.000	0.000	0.000	433.008	433.008	433.008
	08N	02W	0.013	0.000	0.013	0.000	0.000	0.000	0.013
	09N	04W	0.000	0.986	0.986	0.986	0.000	0.000	0.986
	09N	05W	0.000	1.065	1.065	0.000	0.000	0.000	1.065
	10N	02W	0.430	0.000	0.430	0.000	0.000	0.000	0.430
	10N	04W	0.088	0.000	0.088	0.000	0.000	0.000	0.088
TOTAL			0.530	2.051	2.581	0.000	433.008	433.008	435.590
MORGAN	13N	08W	0.000	0.185	0.185	0.000	0.000	0.000	0.185
	16N	08W	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	16N	12W	0.000	0.000	0.000	0.001	0.000	0.001	0.001
	16N	13W	0.068	0.000	0.068	2.900	115.306	118.206	118.274
TOTAL			0.068	0.185	0.253	2.900	115.306	118.206	118.459
MOULTRIE	14N	04E	0.026	0.000	0.026	0.000	0.000	0.000	0.026
	14N	05E	0.085	0.000	0.085	0.000	0.000	0.000	0.085
TOTAL			0.111	0.000	0.111	0.000	0.000	0.000	0.111

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
OGLE	22N	10E	0.063	0.000	0.063	0.000	0.000	0.000	0.063
	23N	08E	0.198	0.000	0.198	0.000	0.000	0.000	0.198
	23N	10E	0.375	0.000	0.375	0.018	0.000	0.018	0.393
	24N	09E	0.339	0.000	0.339	0.088	0.000	0.088	0.427
	24N	10E	0.019	0.000	0.019	0.055	51.964	52.019	52.038
	24N	11E	0.166	0.000	0.166	0.000	0.000	0.000	0.167
	25N	08E	0.116	0.000	0.116	0.000	0.000	0.000	0.116
	25N	09E	0.035	0.000	0.035	0.000	0.000	0.000	0.035
	25N	11E	0.577	0.000	0.577	0.241	0.000	0.241	0.818
	40N	01E	2.609	0.000	2.609	0.000	0.000	0.000	2.609
	40N	02E	0.050	0.000	0.050	1.575	0.000	1.575	1.626
	42N	01E	0.221	0.000	0.221	0.000	0.000	0.000	0.221
	42N	02E	0.005	0.000	0.005	0.001	0.000	0.001	0.006
	<b>TOTAL</b>			<b>4.773</b>	<b>0.000</b>	<b>4.773</b>	<b>1.978</b>	<b>51.964</b>	<b>53.942</b>
PEORIA	07N	06E	0.071	0.000	0.071	0.000	0.000	0.000	0.071
	07N	07E	0.000	0.000	0.000	1.134	410.280	411.414	411.414
	08N	07E	0.332	0.000	0.332	0.552	0.000	0.552	0.884
	08N	08E	5.411	0.000	5.411	13.300	110.267	123.567	128.978
	09N	05E	0.214	0.000	0.214	0.000	0.000	0.000	0.214
	09N	08E	8.840	7.475	16.314	0.014	0.000	0.014	16.328
	10N	05E	0.160	0.000	0.160	0.000	0.000	0.000	0.160
	10N	06E	0.020	0.000	0.020	0.000	0.000	0.000	0.020
	10N	08E	0.000	0.000	0.000	0.863	0.000	0.863	0.863
	10N	09E	0.000	0.000	0.000	0.001	0.000	0.001	0.001
	11N	06E	0.364	0.000	0.364	0.000	0.000	0.000	0.364
	11N	08E	0.013	0.000	0.013	0.000	0.000	0.000	0.013
	11N	09E	1.009	0.000	1.009	0.000	0.000	0.000	1.009
<b>TOTAL</b>			<b>16.432</b>	<b>7.475</b>	<b>23.907</b>	<b>15.864</b>	<b>520.547</b>	<b>536.411</b>	<b>560.318</b>
PERRY	05S	03W	0.000	0.746	0.746	0.000	0.000	0.000	0.746
	06S	04W	0.061	0.000	0.061	0.000	0.000	0.000	0.061
<b>TOTAL</b>			<b>0.061</b>	<b>0.746</b>	<b>0.806</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.806</b>
PIATT	16N	05E	0.058	0.000	0.058	0.000	0.000	0.000	0.058
	17N	04E	0.113	0.000	0.113	0.000	0.000	0.000	0.113
	17N	05E	0.192	0.000	0.192	0.000	0.000	0.000	0.192
	18N	04E	0.038	0.000	0.038	0.000	0.000	0.000	0.038
	18N	06E	0.610	0.000	0.610	3.524	0.000	3.524	4.134
	19N	05E	0.026	0.000	0.026	0.000	0.000	0.000	0.026
	19N	06E	0.069	0.000	0.069	0.000	0.000	0.000	0.069
	20N	06E	0.077	0.000	0.077	0.000	0.000	0.000	0.077
<b>TOTAL</b>			<b>1.184</b>	<b>0.000</b>	<b>1.184</b>	<b>3.524</b>	<b>0.000</b>	<b>3.524</b>	<b>4.708</b>

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
PIKE	03S	02W	0.056	0.000	0.056	0.055	0.000	0.055	0.112
	03S	03W	0.056	0.000	0.056	0.000	0.000	0.000	0.056
	04S	04W	0.003	0.000	0.003	0.000	0.000	0.000	0.003
	04S	06W	0.131	0.000	0.131	0.000	0.000	0.000	0.131
	04S	07W	0.074	0.000	0.074	0.000	0.000	0.000	0.074
	05S	03W	0.000	0.562	0.562	0.000	0.000	0.000	0.562
	05S	06W	0.370	0.000	0.370	0.000	0.000	0.000	0.370
	06S	02W	0.024	0.000	0.024	0.000	0.000	0.000	0.024
	06S	04W	0.000	0.000	0.000	0.006	0.000	0.006	0.006
	06S	05W	0.244	0.000	0.244	0.049	0.000	0.049	0.293
	07S	02W	0.031	0.000	0.031	0.009	9.298	9.307	9.338
	07S	03W	0.029	0.000	0.029	0.000	0.000	0.000	0.029
	07S	04W	0.127	0.000	0.127	0.000	0.000	0.000	0.127
TOTAL			1.147	0.562	1.709	0.120	9.298	9.418	11.127
POPE			0.000	0.000	0.000	0.000	0.000	0.000	0.000
PULASKI	15S	01E	0.112	0.000	0.112	0.000	0.000	0.000	0.112
	16S	01W	0.078	0.000	0.078	0.000	0.000	0.000	0.078
TOTAL			0.190	0.000	0.190	0.000	0.000	0.000	0.190
PUTNAM	14N	09E	0.057	0.000	0.057	0.000	0.000	0.000	0.057
	31N	01W	0.020	0.000	0.020	0.000	0.000	0.000	0.020
	32N	01W	0.201	0.000	0.201	0.000	0.000	0.000	0.201
	32N	02W	0.119	0.000	0.119	1.785	0.000	1.785	1.904
	33N	01W	0.025	0.000	0.025	0.000	0.000	0.000	0.025
	33N	02W	0.000	0.000	0.000	0.827	199.618	200.444	200.444
TOTAL			0.422	0.000	0.422	2.612	199.618	202.229	202.651
RANDOLPH	04S	05W	0.000	0.147	0.147	0.000	0.100	0.100	0.247
	04S	07W	0.294	0.000	0.294	0.000	21.819	21.819	22.112
	04S	08W	0.019	0.000	0.019	0.000	0.000	0.000	0.019
	05S	05W	0.000	0.755	0.755	0.000	0.000	0.000	0.755
	05S	08W	0.074	0.071	0.145	0.000	0.000	0.000	0.145
	06S	05W	0.320	0.000	0.320	0.000	0.000	0.000	0.320
	07S	07W	0.000	1.608	1.608	0.000	0.000	0.000	1.608
TOTAL			0.707	2.580	3.287	0.000	21.919	21.919	25.206
RICHLAND	03N	10E	0.011	0.000	0.011	0.000	0.000	0.000	0.011
	04N	10E	0.000	1.343	1.343	0.000	0.000	0.000	1.343
TOTAL			0.011	1.343	1.354	0.000	0.000	0.000	1.354
ROCK ISLAND	16N	01W	0.055	0.000	0.055	0.000	0.000	0.000	0.055
	16N	02W	0.058	0.000	0.058	0.005	0.000	0.005	0.062
	16N	03W	0.114	0.000	0.114	0.000	0.000	0.000	0.114
	16N	04W	0.003	0.000	0.003	0.000	0.000	0.000	0.003

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
ROCK ISLAND	17N	01E	0.398	0.000	0.398	0.000	0.000	0.000	0.398
(cont.)	17N	01W	0.263	0.000	0.263	0.000	0.000	0.000	0.263
	17N	02W	0.460	0.000	0.460	0.000	3.332	3.332	3.792
	17N	03W	0.096	0.000	0.096	0.007	0.010	0.017	0.113
	18N	01E	0.579	10.182	10.761	0.000	2.416	2.416	13.176
	18N	01W	0.000	0.000	0.000	0.012	568.719	568.731	568.731
	18N	02E	0.000	0.000	0.000	0.000	1.489	1.489	1.489
	18N	02W	0.000	5.991	5.991	0.000	0.000	0.000	5.991
	19N	01E	0.038	0.000	0.038	0.000	0.000	0.000	0.038
	19N	02E	0.046	0.000	0.046	0.005	0.000	0.005	0.051
	19N	03E	0.010	0.000	0.010	0.000	0.000	0.000	0.010
	20N	02E	0.055	0.000	0.055	9.095	1091.238	1100.333	1100.389
	21N	02E	0.000	0.000	0.000	0.013	0.000	0.013	0.013
<b>TOTAL</b>			2.175	16.173	18.347	9.137	1667.204	1676.341	1694.688
ST. CLAIR	01N	10W	0.306	0.000	0.306	0.010	0.088	0.097	0.403
	01S	06W	0.000	2.748	2.748	0.000	0.000	0.000	2.748
	02N	08W	0.350	0.000	0.350	0.000	0.000	0.000	0.350
	02N	09W	0.000	0.000	0.000	8.921	0.000	8.921	8.921
	02N	10W	0.000	10.334	10.334	5.978	0.000	5.978	16.313
	02S	07W	0.000	1.159	1.159	0.000	0.000	0.000	1.159
<b>TOTAL</b>			0.656	14.242	14.898	14.908	0.088	14.996	29.894
SALINE	08S	06E	0.000	0.000	0.000	0.000	0.334	0.334	0.334
SANGAMON	15N	03W	0.000	0.000	0.000	4.039	4.039	8.078	8.078
	15N	05W	0.000	23.078	23.078	0.000	276.288	276.288	299.366
	15N	07W	0.000	0.083	0.083	0.000	0.000	0.000	0.083
	16N	02W	0.123	0.000	0.123	0.000	0.000	0.000	0.123
	16N	04W	0.363	0.000	0.363	0.000	0.000	0.000	0.363
	16N	06W	0.614	0.000	0.614	0.000	0.000	0.000	0.614
	17N	06W	0.117	0.000	0.117	0.000	0.000	0.000	0.117
<b>TOTAL</b>			1.217	23.161	24.378	4.039	280.327	284.366	308.744
SCHUYLER	01N	01W	0.447	0.000	0.447	0.000	0.000	0.000	0.447
	01S	01W	0.452	0.000	0.452	0.000	0.000	0.000	0.452
	02N	01E	0.032	0.000	0.032	0.000	0.000	0.000	0.032
<b>TOTAL</b>			0.930	0.000	0.930	0.000	0.000	0.000	0.930
SCOTT	14N	13W	0.385	0.000	0.385	0.000	0.000	0.000	0.385
	14N	14W	0.220	0.000	0.220	0.000	0.000	0.000	0.220
	15N	13W	0.121	0.000	0.121	0.000	0.000	0.000	0.121
	15N	14W	4.089	0.000	4.089	0.000	0.000	0.000	4.089
<b>TOTAL</b>			4.814	0.000	4.814	0.000	0.000	0.000	4.814

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
SHELBY	09N	03E	0.000	0.000	0.000	0.006	1.330	1.336	1.336
	09N	04E	0.000	0.714	0.714	0.000	0.000	0.000	0.714
	09N	06E	0.024	0.000	0.024	0.000	0.000	0.000	0.024
	10N	05E	0.047	0.000	0.047	0.000	0.000	0.000	0.047
	10N	06E	0.062	0.119	0.181	0.000	0.000	0.000	0.181
	11N	02E	0.000	0.577	0.577	0.000	0.000	0.000	0.577
	11N	03E	0.691	0.000	0.691	0.000	0.000	0.000	0.691
	11N	05E	0.053	0.000	0.053	0.000	0.000	0.000	0.053
	12N	04E	0.056	0.000	0.056	0.000	0.000	0.000	0.056
	12N	05E	0.026	0.000	0.026	0.000	0.000	0.000	0.026
TOTAL			0.959	1.409	2.368	0.007	1.330	1.336	3.704
STARK	12N	06E	0.239	0.000	0.239	0.000	0.000	0.000	0.239
	14N	07E	0.098	0.000	0.098	0.000	0.000	0.000	0.098
	TOTAL			0.336	0.000	0.336	0.000	0.000	0.000
STEPHENSON	26N	05E	0.000	0.000	0.000	0.021	0.000	0.021	0.021
	26N	08E	0.285	0.000	0.285	1.461	0.000	1.461	1.746
	26N	09E	0.040	0.000	0.040	0.000	0.000	0.000	0.040
	27N	05E	0.000	0.000	0.000	0.221	0.000	0.221	0.221
	27N	06E	0.000	0.000	0.000	0.353	0.000	0.353	0.353
	27N	07E	0.037	0.000	0.037	0.002	0.000	0.002	0.039
	27N	08E	3.097	0.000	3.097	0.096	0.000	0.096	3.193
	28N	06E	0.277	0.000	0.277	0.000	0.000	0.000	0.277
	28N	07E	0.064	0.000	0.064	0.000	0.000	0.000	0.064
	28N	08E	0.081	0.000	0.081	0.106	0.000	0.106	0.186
	28N	09E	0.114	0.000	0.114	0.000	0.000	0.000	0.114
	29N	06E	0.035	0.000	0.035	0.000	0.000	0.000	0.035
	29N	07E	0.065	0.000	0.065	0.000	0.000	0.000	0.065
	29N	08E	0.000	0.000	0.000	0.007	0.000	0.007	0.007
TOTAL			4.093	0.000	4.093	2.266	0.000	2.266	6.360
TAZEWELL	22N	02W	0.024	0.000	0.024	0.000	0.000	0.000	0.024
	22N	04W	0.221	0.000	0.221	0.000	0.000	0.000	0.221
	23N	02W	0.100	0.000	0.100	0.000	0.000	0.000	0.100
	23N	03W	0.079	0.000	0.079	0.000	0.000	0.000	0.079
	23N	05W	0.047	0.000	0.047	0.000	0.000	0.000	0.047
	24N	02W	0.240	0.000	0.240	0.000	0.000	0.000	0.240
	24N	03W	0.224	0.000	0.224	0.000	0.000	0.000	0.224
	24N	05W	3.659	0.000	3.659	8.635	53.232	61.867	65.525
	25N	02W	0.044	0.000	0.044	0.000	0.000	0.000	0.044
	25N	03W	2.217	0.000	2.217	0.129	0.000	0.129	2.346
	25N	05W	3.309	0.000	3.309	1.800	0.000	1.800	5.109
	26N	02W	0.322	0.000	0.322	0.000	0.000	0.000	0.322
	26N	03W	1.389	0.000	1.389	0.023	0.046	0.069	1.457
26N	04W	2.597	0.000	2.597	0.000	1.277	1.277	3.874	
TOTAL			14.470	0.000	14.470	10.586	54.555	65.141	79.611



APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
UNION	12S	01W	0.000	0.000	0.000	0.000	0.033	0.033	0.033
	12S	02W	1.061	0.000	1.061	0.000	0.000	0.000	1.061
	TOTAL			1.061	0.000	1.061	0.000	0.033	0.033
VERMILION	17N	11W	0.092	0.000	0.092	0.000	0.000	0.000	0.092
	17N	12W	0.013	0.000	0.013	0.000	0.000	0.000	0.013
	17N	13W	0.059	0.000	0.059	0.000	0.000	0.000	0.059
	17N	14W	0.018	0.000	0.018	0.000	0.000	0.000	0.018
	18N	13W	0.062	0.000	0.062	0.000	0.000	0.000	0.062
	19N	09W	0.277	0.000	0.277	0.000	0.000	0.000	0.277
	19N	11W	0.000	7.706	7.706	0.087	0.000	0.087	7.793
	19N	12W	0.000	0.000	0.000	0.034	0.000	0.034	0.034
	19N	13W	0.000	0.159	0.159	0.000	0.000	0.000	0.159
	19N	14W	0.030	0.000	0.030	0.000	0.000	0.000	0.030
	20N	12W	0.000	0.000	0.000	0.001	2.878	2.878	2.878
	21N	11W	0.016	0.000	0.016	0.000	0.000	0.000	0.016
	21N	13W	0.053	0.000	0.053	0.000	0.000	0.000	0.053
	22N	12W	0.137	0.000	0.137	0.000	0.000	0.000	0.137
	23N	12W	0.589	0.000	0.589	0.263	0.000	0.263	0.852
23N	13W	0.007	0.000	0.007	0.000	0.000	0.000	0.007	
TOTAL			1.355	7.865	9.220	0.384	2.878	3.262	12.482
WABASH	01N	11W	0.005	0.000	0.005	0.000	0.000	0.000	0.005
	01N	12W	0.032	0.000	0.032	0.000	0.000	0.000	0.032
	01S	12W	0.979	0.000	0.979	0.000	0.000	0.000	0.979
	01S	13W	0.022	0.000	0.022	0.000	0.000	0.000	0.022
	02S	13W	0.023	0.000	0.023	0.000	0.000	0.000	0.023
	03S	14W	0.670	0.000	0.670	0.000	0.000	0.000	0.670
TOTAL			1.732	0.000	1.732	0.000	0.000	0.000	1.732
WARREN	08N	01W	0.039	0.000	0.039	0.000	0.000	0.000	0.039
	10N	03W	0.060	0.000	0.060	0.000	0.000	0.000	0.060
	11N	02W	2.305	0.000	2.305	0.000	0.000	0.000	2.305
	12N	02W	0.085	0.000	0.085	0.000	0.000	0.000	0.085
TOTAL			2.488	0.000	2.488	0.000	0.000	0.000	2.488
WASHINGTON	02S	02W	0.000	0.567	0.567	0.000	0.000	0.000	0.567
WAYNE	01N	07E	0.048	0.000	0.048	0.000	0.000	0.000	0.048
	01N	09E	0.010	0.000	0.010	0.000	0.000	0.000	0.010
	02S	05E	0.000	0.151	0.151	0.000	0.000	0.000	0.151
	02S	09E	0.000	0.928	0.928	0.000	0.000	0.000	0.928
TOTAL			0.058	1.079	1.138	0.000	0.000	0.000	1.138

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
WHITE	05S	10E	0.884	0.000	0.884	0.620	0.000	0.620	1.503
	06S	10E	0.207	0.000	0.207	0.071	0.000	0.071	0.278
	<b>TOTAL</b>		<b>1.090</b>	<b>0.000</b>	<b>1.090</b>	<b>0.691</b>	<b>0.000</b>	<b>0.691</b>	<b>1.781</b>
WHITESIDE	19N	04E	0.120	0.000	0.120	0.000	0.000	0.000	0.120
	19N	05E	0.187	0.000	0.187	0.005	0.000	0.005	0.193
	19N	06E	0.048	0.000	0.048	0.000	0.000	0.000	0.048
	20N	05E	0.053	0.000	0.053	0.000	0.000	0.000	0.053
	20N	07E	0.000	0.000	0.000	0.001	0.000	0.001	0.001
	21N	02E	0.075	0.000	0.075	0.000	0.000	0.000	0.075
	21N	04E	0.000	0.000	0.000	0.003	0.000	0.003	0.003
	21N	05E	0.503	0.000	0.503	0.000	0.000	0.000	0.503
	21N	07E	2.488	0.000	2.488	0.011	389.836	389.847	392.335
	22N	03E	0.298	0.000	0.298	0.000	0.000	0.000	0.298
<b>TOTAL</b>		<b>3.772</b>	<b>0.000</b>	<b>3.772</b>	<b>0.020</b>	<b>389.836</b>	<b>389.856</b>	<b>393.628</b>	
WILL	32N	09E	0.548	0.000	0.548	0.109	1999.562	1999.671	2000.219
	32N	10E	0.000	0.000	0.000	0.016	0.000	0.016	0.016
	33N	09E	0.131	0.724	0.854	0.000	0.000	0.000	0.854
	33N	10E	0.000	0.000	0.000	0.002	0.000	0.002	0.002
	33N	12E	0.367	0.000	0.367	0.000	0.000	0.000	0.367
	33N	14E	0.420	0.000	0.420	0.002	0.000	0.002	0.422
	34N	09E	1.946	0.000	1.946	5.691	10.353	16.044	17.990
	34N	10E	1.209	0.000	1.209	0.023	0.004	0.027	1.235
	34N	11E	0.624	0.000	0.624	0.000	0.000	0.000	0.624
	34N	12E	0.000	0.000	0.000	0.008	0.000	0.008	0.008
	34N	13E	1.683	0.000	1.683	0.070	0.000	0.070	1.752
	34N	14E	1.181	0.000	1.181	0.008	0.000	0.008	1.189
	34N	15E	0.324	0.000	0.324	0.001	0.000	0.001	0.325
	35N	09E	4.859	0.000	4.859	0.001	0.000	0.001	4.860
	35N	10E	3.225	0.000	3.225	0.548	1283.088	1283.636	1286.861
	35N	11E	3.574	0.000	3.574	0.002	0.000	0.002	3.576
	35N	12E	3.432	0.000	3.432	0.014	0.000	0.014	3.446
	36N	09E	2.638	0.000	2.638	0.001	0.000	0.001	2.639
	36N	10E	4.559	0.000	4.559	0.069	558.312	558.382	562.941
	36N	11E	4.356	0.000	4.356	0.000	0.078	0.078	4.434
37N	09E	0.006	0.000	0.006	0.000	0.000	0.000	0.006	
37N	10E	1.910	0.000	1.910	0.103	4.928	5.031	6.941	
<b>TOTAL</b>		<b>36.991</b>	<b>0.724</b>	<b>37.714</b>	<b>6.667</b>	<b>3856.325</b>	<b>3862.992</b>	<b>3900.706</b>	
WILLIAMSON	09S	03E	0.000	0.000	0.000	0.084	0.000	0.084	0.084
	10S	02E	0.121	1.109	1.230	0.000	206.221	206.221	207.451
<b>TOTAL</b>		<b>0.121</b>	<b>1.109</b>	<b>1.230</b>	<b>0.084</b>	<b>206.221</b>	<b>206.305</b>	<b>207.535</b>	

APPENDIX C: 2011 Township Water Withdrawals (continued)

COUNTY	Township	Range	Public Water Supply			Self-Supplied Industry			Township
			Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
WINNEBAGO	26N	10E	0.005	0.000	0.005	0.000	0.000	0.000	0.005
	26N	11E	0.261	0.000	0.261	0.000	0.000	0.000	0.261
	27N	10E	0.396	0.000	0.396	0.153	0.000	0.153	0.549
	28N	10E	0.397	0.000	0.397	0.000	0.000	0.000	0.397
	43N	01E	2.774	0.000	2.774	0.250	0.000	0.250	3.024
	43N	02E	0.875	0.000	0.875	0.000	0.000	0.000	0.875
	44N	01E	5.468	0.000	5.468	0.377	0.000	0.377	5.845
	44N	02E	11.903	0.000	11.903	0.639	0.000	0.639	12.542
	45N	01E	1.354	0.000	1.354	0.000	0.000	0.000	1.354
	45N	02E	4.542	0.000	4.542	0.000	0.000	0.000	4.542
	46N	01E	0.615	0.000	0.615	0.000	946.868	946.868	947.483
	46N	02E	0.243	0.000	0.243	0.018	0.000	0.018	0.261
	TOTAL			28.831	0.000	28.831	1.437	946.868	948.306
WOODFORD	25N	01E	0.000	5.388	5.388	0.000	0.000	0.000	5.388
	25N	01W	0.044	0.000	0.044	0.000	0.000	0.000	0.044
	25N	02W	0.085	0.000	0.085	0.000	0.000	0.000	0.085
	26N	01E	0.033	0.000	0.033	0.000	0.000	0.000	0.033
	26N	02E	0.391	0.000	0.391	0.000	0.000	0.000	0.391
	26N	02W	0.274	0.000	0.274	0.000	0.000	0.000	0.274
	27N	01W	0.255	0.000	0.255	0.000	0.000	0.000	0.255
	27N	03W	0.782	0.000	0.782	0.000	0.000	0.000	0.782
	28N	02E	0.224	0.000	0.224	0.000	0.000	0.000	0.224
	28N	02W	0.108	0.000	0.108	0.000	0.000	0.000	0.108
TOTAL			2.195	5.388	7.583	0.000	0.000	0.000	7.583
STATEWIDE TOTAL			356.688	1,151.596	1,508.282	156.714	51,763.614	51,920.332	53,428.610

APPENDIX D: Water Supply Planning Areas County Water Withdrawals

County	FIPS	Public Water Supply			Self-Supplied-Industry			County
		Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
<b>ROCK RIVER BASIN</b>								
Bureau	011	2.812	0.000	2.812	0.170	0.000	0.170	2.982
Carroll	015	0.926	0.000	0.926	2.805	0.000	2.805	3.731
Henry	073	5.011	0.000	5.011	1.478	0.000	1.478	6.489
JoDaviess	085	1.849	0.000	1.849	1.661	0.000	1.661	3.510
Lee	103	4.028	0.000	4.028	0.068	0.000	0.068	4.096
Ogle	141	4.773	0.000	4.773	1.978	51.964	53.942	58.715
Rock Island	161	2.175	16.173	18.347	9.137	1,667.204	1,676.341	1,694.688
Stephenson	177	4.093	0.000	4.093	2.266	0.000	2.266	6.360
Whiteside	195	3.772	0.000	3.772	0.020	389.836	389.856	393.628
Winnebago	201	28.831	0.000	28.831	1.437	946.868	948.306	977.136
<i>TOTAL</i>		<i>58.269</i>	<i>16.173</i>	<i>74.441</i>	<i>21.022</i>	<i>3,055.872</i>	<i>3,076.894</i>	<i>3,151.335</i>
<b>NORTHEASTERN ILLINOIS</b>								
Boone	007	3.865	0.000	3.865	0.451	0.000	0.451	4.316
Cook	031	9.320	853.751	863.071	3.170	768.110	771.280	1,634.351
DeKalb	037	7.860	0.000	7.860	0.087	3.069	3.157	11.017
DuPage	043	6.490	0.000	6.490	0.207	1.244	1.451	7.941
Grundy	063	3.630	0.000	3.630	5.456	492.600	498.056	501.685
Kane	089	35.253	23.115	58.368	1.209	0.154	1.363	59.731
Kankakee	091	1.281	11.672	12.953	3.466	3.701	7.168	20.121
Kendall	093	7.997	0.000	7.997	0.351	1.415	1.767	9.763
Lake	097	10.929	50.607	61.536	1.032	646.633	647.664	709.200
McHenry	111	18.920	0.000	18.920	1.380	0.460	1.840	20.760
Will	197	36.991	0.724	37.714	6.667	3,856.325	3,862.992	3,900.706
<i>TOTAL</i>		<i>142.535</i>	<i>939.869</i>	<i>1,082.404</i>	<i>23.476</i>	<i>5,773.712</i>	<i>5,797.188</i>	<i>6,879.592</i>
<b>MIDDLE ILLINOIS BASIN</b>								
LaSalle	099	9.320	0.000	9.320	3.203	2,454.245	2,457.448	2,466.768
Livingston	105	1.566	3.325	4.891	0.035	0.000	0.035	4.926
Marshall	123	1.630	0.000	1.630	0.672	0.000	0.672	2.302
Peoria	143	16.432	7.475	23.907	15.864	520.547	536.411	560.318
Putnam	155	0.422	0.000	0.422	2.612	199.618	202.229	202.651
Stark	175	0.336	0.000	0.336	0.000	0.000	0.000	0.336
<i>TOTAL</i>		<i>29.706</i>	<i>10.800</i>	<i>40.426</i>	<i>22.386</i>	<i>3,174.410</i>	<i>3,196.796</i>	<i>3,237.302</i>
<b>SPOON AND LAMOINE BASINS</b>								
Adams	001	2.205	7.973	10.178	6.563	0.027	6.591	16.769
Brown	009	0.047	0.000	0.047	0.007	0.000	0.007	0.055
Fulton	057	0.477	2.126	2.602	0.001	241.096	241.097	243.699
Hancock	067	0.312	0.795	1.107	0.000	34,219.894	34,219.894	34,221.001
Henderson	071	5.573	0.000	5.573	0.000	0.000	0.000	5.573
Knox	095	0.263	0.000	0.263	0.000	0.000	0.000	0.263
McDonough	109	0.684	2.115	2.799	0.003	0.000	0.003	2.802
Mercer	131	0.488	0.000	0.488	0.000	0.000	0.000	0.488
Schuyler	169	0.930	0.000	0.930	0.000	0.000	0.000	0.930
Warren	187	2.488	0.000	2.488	0.000	0.000	0.000	2.488
<i>TOTAL</i>		<i>13.468</i>	<i>13.009</i>	<i>26.476</i>	<i>6.575</i>	<i>34,461.017</i>	<i>34,467.592</i>	<i>34,494.068</i>

APPENDIX D: Water Supply Planning Areas County Water Withdrawals (continued)

County	FIPS	Public Water Supply			Self-Supplied-Industry			County
		Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
<b>LOWER ILLINOIS BASIN</b>								
Calhoun	013	0.293	0.000	0.293	0.000	0.000	0.000	0.293
Greene	061	0.736	0.086	0.821	0.000	0.000	0.000	0.821
Jersey	083	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Macoupin	117	0.000	4.053	4.053	0.000	1.099	1.099	5.151
Morgan	137	0.068	0.185	0.253	2.900	115.306	118.206	118.459
Pike	149	1.147	0.562	1.709	0.120	9.298	9.418	11.127
Scott	171	4.814	0.000	4.814	0.000	0.000	0.000	4.814
<i>TOTAL</i>		<i>7.058</i>	<i>4.886</i>	<i>11.944</i>	<i>3.020</i>	<i>125.703</i>	<i>128.723</i>	<i>140.667</i>
<b>EAST CENTRAL ILLINOIS BASIN</b>								
Cass	017	0.911	0.000	0.911	1.728	0.000	1.728	2.639
Champaign	019	23.384	0.000	23.384	2.760	0.002	2.762	26.146
DeWitt	039	4.877	0.000	4.877	0.002	773.785	773.787	778.664
Ford	053	1.416	0.000	1.416	1.458	0.000	1.458	2.874
Iroquois	075	2.236	0.000	2.236	0.003	0.000	0.003	2.236
Logan	107	2.411	0.000	2.411	0.147	0.923	1.070	3.481
McLean	113	5.784	5.388	11.172	0.255	0.000	0.255	11.427
Macon	115	1.332	21.525	22.857	1.495	13.534	15.029	37.886
Mason	125	0.555	0.000	0.555	2.335	21.600	23.935	24.490
Menard	129	0.432	0.000	0.432	0.000	0.000	0.000	0.432
Piatt	147	1.184	0.000	1.184	3.524	0.000	3.524	4.708
Sangamon	167	1.217	23.161	24.378	4.039	280.327	284.366	308.744
Tazewell	179	14.470	0.000	14.470	10.586	54.555	65.141	79.611
Vermilion	183	1.355	7.865	9.220	0.384	2.878	3.262	12.482
Woodford	203	2.195	5.388	7.583	0.000	0.000	0.000	7.583
<i>TOTAL</i>		<i>62.904</i>	<i>63.758</i>	<i>127.084</i>	<i>28.718</i>	<i>1,147.604</i>	<i>1,176.322</i>	<i>1,303.403</i>
<b>KASKASKIA RIVER BASIN</b>								
Bond	005	0.063	1.226	1.289	0.000	0.000	0.000	1.289
Christian	021	1.901	0.558	2.459	0.000	760.793	760.793	763.252
Clay	025	0.009	0.000	0.009	0.000	0.000	0.000	0.009
Clinton	027	0.346	6.683	7.029	0.621	0.000	0.621	7.650
Coles	029	0.507	3.701	4.208	0.000	0.003	0.003	4.211
Cumberland	035	0.277	0.000	0.277	0.000	0.000	0.000	0.277
Douglas	041	0.623	0.000	0.623	0.000	1.392	1.393	2.016
Effingham	049	0.096	2.322	2.419	0.000	0.000	0.000	2.419
Fayette	051	0.598	1.094	1.692	0.000	0.000	0.000	1.692
Jasper	079	1.230	0.000	1.230	0.000	1,605.068	1,605.068	1,606.298
Marion	121	0.000	1.048	1.048	0.000	0.000	0.000	1.048
Montgomery	135	0.530	2.051	2.581	0.000	433.008	433.008	435.590
Moultrie	139	0.111	0.000	0.111	0.000	0.000	0.000	0.111
Randolph	157	0.707	2.580	3.287	0.000	21.919	21.919	25.206
Richland	159	0.011	1.343	1.354	0.000	0.000	0.000	1.354
St. Clair	163	0.656	14.242	14.898	14.908	0.088	14.996	29.894
Shelby	173	0.959	1.409	2.368	0.007	1.330	1.336	3.704
Washington	189	0.000	0.567	0.567	0.000	0.000	0.000	0.567
Wayne	191	0.058	1.079	1.138	0.000	0.000	0.000	1.138
<i>TOTAL</i>		<i>8.681</i>	<i>39.903</i>	<i>48.585</i>	<i>15.536</i>	<i>2,823.601</i>	<i>2,839.137</i>	<i>2,887.725</i>

APPENDIX D: Water Supply Planning Areas County Water Withdrawals (continued)

County	FIPS	Public Water Supply			Self-Supplied-Industry			County
		Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Ground-water (mgd)	Surface Water (mgd)	Total (mgd)	Total (mgd)
<b>AMERICAN BOTTOMS AQUIFER SYSTEM</b>								
Madison	119	14.262	41.569	55.831	26.697	325.228	351.925	407.756
Monroe	133	0.376	0.000	0.376	0.000	0.000	0.000	0.377
<i>TOTAL</i>		<i>14.639</i>	<i>41.569</i>	<i>56.208</i>	<i>26.697</i>	<i>325.228</i>	<i>351.925</i>	<i>408.133</i>
<b>WABASH AND OHIO RIVER TRIBUTARIES</b>								
Alexander	003	0.971	0.843	1.815	0.001	0.000	0.001	1.816
Clark	023	1.785	0.000	1.785	0.000	0.000	0.000	1.785
Crawford	033	2.279	0.000	2.279	2.629	2.179	4.809	7.088
Edgar	045	1.314	0.000	1.314	0.003	0.000	0.003	1.317
Edwards	047	0.017	0.000	0.017	0.000	0.000	0.000	0.017
Gallatin	059	3.671	0.000	3.671	0.000	0.000	0.000	3.671
Hamilton	065	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hardin	069	0.167	0.000	0.167	0.000	0.000	0.000	0.167
Johnson	087	0.068	0.762	0.830	0.000	0.000	0.000	0.830
Lawrence	101	1.357	0.000	1.357	0.000	0.000	0.000	1.357
Massac	127	2.622	0.000	2.622	5.063	610.703	615.766	618.388
Pope	151	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pulaski	153	0.190	0.000	0.190	0.000	0.000	0.000	0.190
Saline	165	0.000	0.000	0.000	0.000	0.334	0.334	0.334
Union	181	1.061	0.000	1.061	0.000	0.033	0.033	1.093
Wabash	185	1.732	0.000	1.732	0.000	0.000	0.000	1.732
White	193	1.090	0.000	1.090	0.691	0.000	0.691	1.781
<i>TOTAL</i>		<i>18.325</i>	<i>1.606</i>	<i>19.931</i>	<i>8.387</i>	<i>613.249</i>	<i>621.636</i>	<i>641.567</i>
<b>BIG MUDDY RIVER BASIN</b>								
Franklin	055	0.000	14.404	14.404	0.000	0.000	0.000	14.404
Jackson	077	0.066	4.196	4.262	0.818	56.998	57.816	62.078
Jefferson	081	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Perry	145	0.061	0.746	0.806	0.000	0.000	0.000	0.806
Williamson	199	0.121	1.109	1.230	0.084	206.221	206.305	207.535
<i>TOTAL</i>		<i>0.248</i>	<i>20.455</i>	<i>20.702</i>	<i>0.902</i>	<i>263.218</i>	<i>264.120</i>	<i>284.823</i>

