Withdrawals in Kane County by Source

No surface water withdrawal records before 1979
Withdrawals in Kane County by Source (2003)

Total water use ≈ 64 mgd

- Groundwater: 37%
- Surface Water (Primarily Fox River): 63%
Withdrawals in Kane County for Self-supplied Domestic Purposes

- Public Supply, Self Supplied Commercial/Industrial, and Irrigation Sectors
- Self Supplied Domestic Sector

Bracketing Estimates
Public Supply, Self-supplied Commercial/Industrial, and Irrigation Sectors

1985: 279 mgd
2003: 165 mgd

2007 Priority Places Workshop: Implementing a Sustainable Water Supply for Kane County’s Future
Groundwater Withdrawals in Kane County Area (2003)
Public Supply, Self-supplied Commercial/Industrial, and Irrigation Sectors
Groundwater Withdrawals in Kane County (2005-2050)
Public Supply, Self-supplied Commercial/Industrial, and Irrigation Sectors

- 2003: ~37 mgd
- 2050: ~71 mgd (High Pumping Scenario)
- 2050: ~52 mgd (Low Pumping Scenario)

2007 Priority Places Workshop: Implementing a Sustainable Water Supply for Kane County's Future
Availability of Lake Michigan Water

- Limited in Illinois by a U.S. Supreme Court decree.
- Delivery to Kane County would be expensive.
Summary

- Total water use in Kane County increased from about 25 mgd in 1964 to about 64 mgd in 2003.

- Surface water withdrawals increased from less than 1 mgd before 1983 to over 20 mgd since 1993.

- Almost all surface withdrawals are accounted for by Aurora and Elgin use of the Fox River.

- About 90% of 2003 withdrawals was used for public water supplies.

- Self-supplied domestic withdrawals accounted for about 5% of total Kane County withdrawals in 2003, but most of this was returned to its source through septic systems.
Summary

- Groundwater use leveled out after Aurora and Elgin began using Fox River water, but it has generally increased since 1995.

- Groundwater withdrawals in northeastern Illinois declined and shifted south and west after the mid-1980s as Lake Michigan water was imported into suburban Lake, Cook, DuPage, and Will Counties.

- Groundwater withdrawals in Kane County are concentrated in the eastern one-third of the county.

- Lake Michigan is not expected to play a role in satisfying future water demand in Kane County.