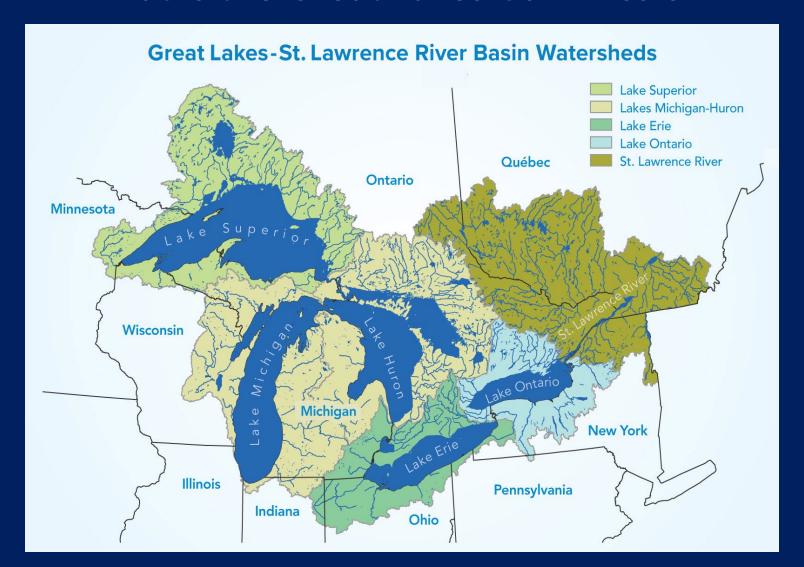
Assessing Agricultural Water Use Trends in the Great Lakes Basin Under Changing Climate Conditions

James Polidori
Sr. Program Specialist
Great Lakes Commission

Science Team Meeting June 16-18, 2025



What is the Great Lakes Commission?





History of Great Lakes Water Resource Management

1985

Great Lakes Charter signed

1987

 Great Lakes Commission chosen to serve as water use database repository

2001

 Great Lakes Charter Annex established as supplementary agreement to the Charter

2005

 Great Lakes-St. Lawrence River Sustainable Water Resources Agreement established

2008

 Great Lakes-St. Lawrence River Water Resources Compact signed



Great Lakes Water Use Database

ANNUAL REPORT OF THE

Great Lakes Regional Water Use Database

REPRESENTING 2023 WATER USE DATA

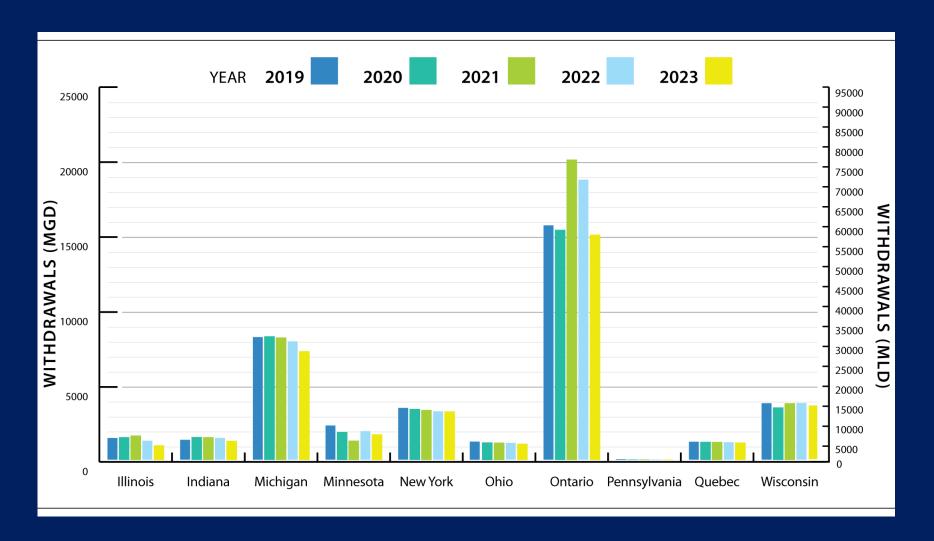
Prepared by the Great Lakes Commission for the

Great Lakes-St. Lawrence River Water Resources Regional Body and the

Great Lakes-St. Lawrence River Basin Water Resources Council

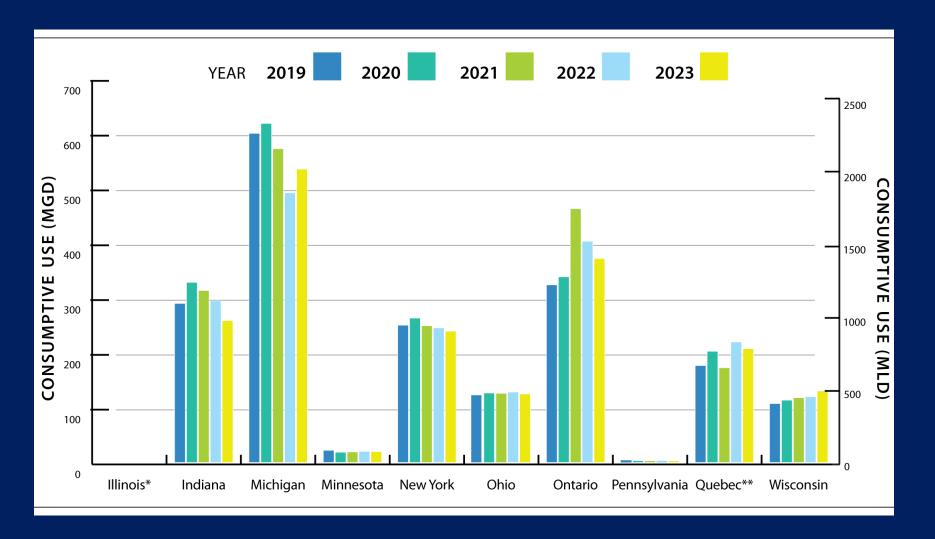


Water Use Trends – Withdrawals



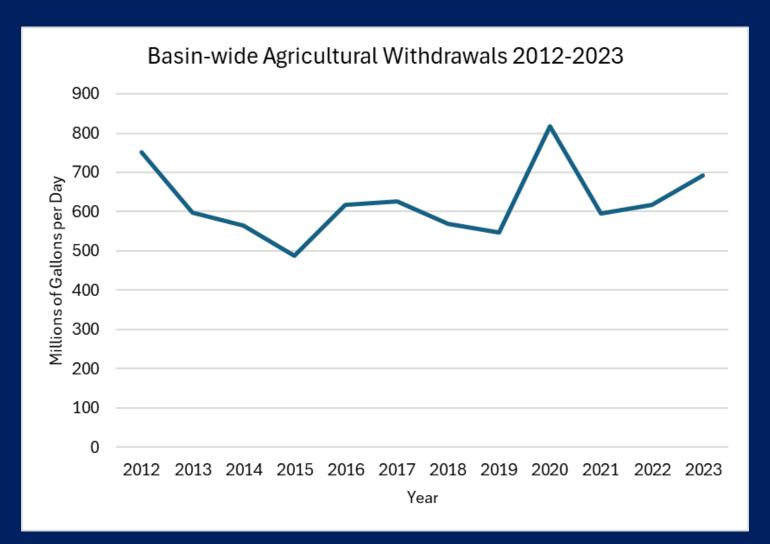


Water Use Trends – Consumptive Use

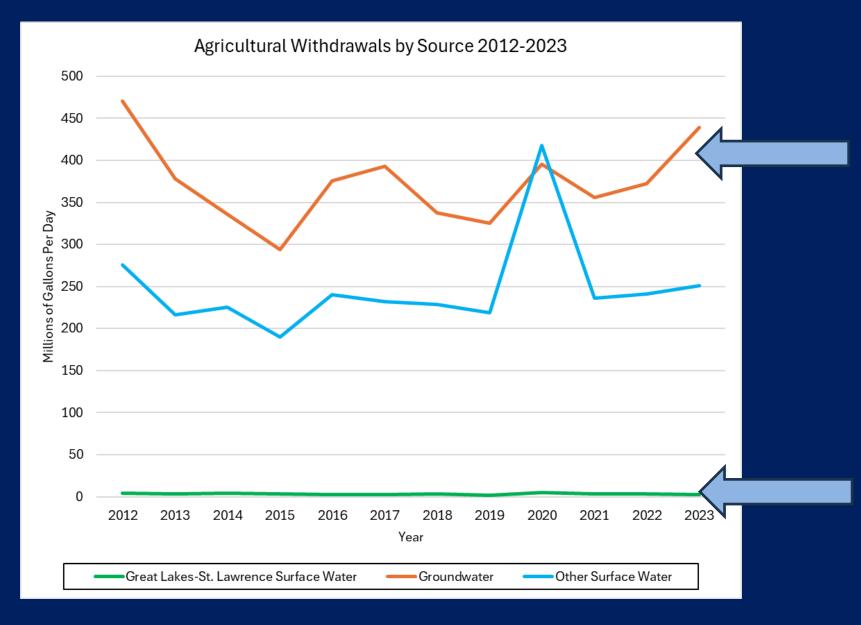




Agricultural Water Use Trends

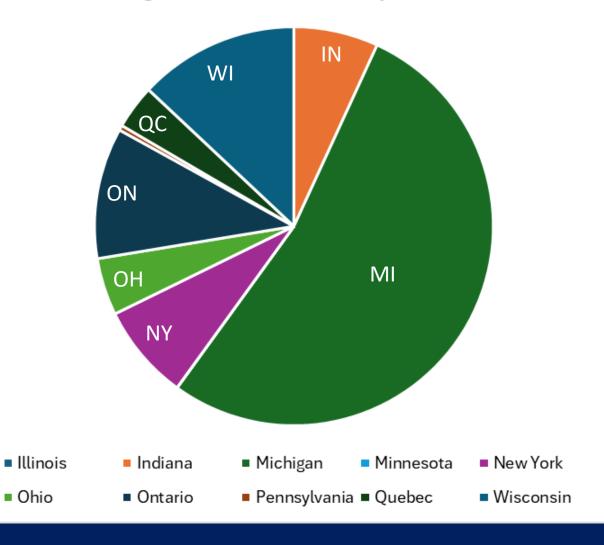






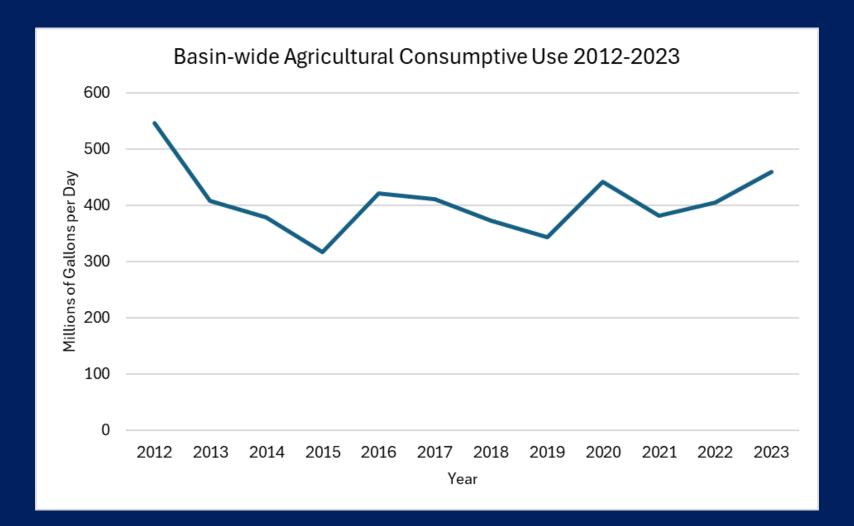


2023 Agricultural Water Use by Jurisdiction





Agricultural Water Use Trends





Other GLC Work

- Policy Resolution
- Agricultural commodities dashboard
- Groundwater management reports
- Literature Review
- Thank you to the Joyce Foundation for providing funding for the GLC to conduct this work



Takeaways



Questions?

