

NWPA

March 26, 2019

NWPA Water Use Summary

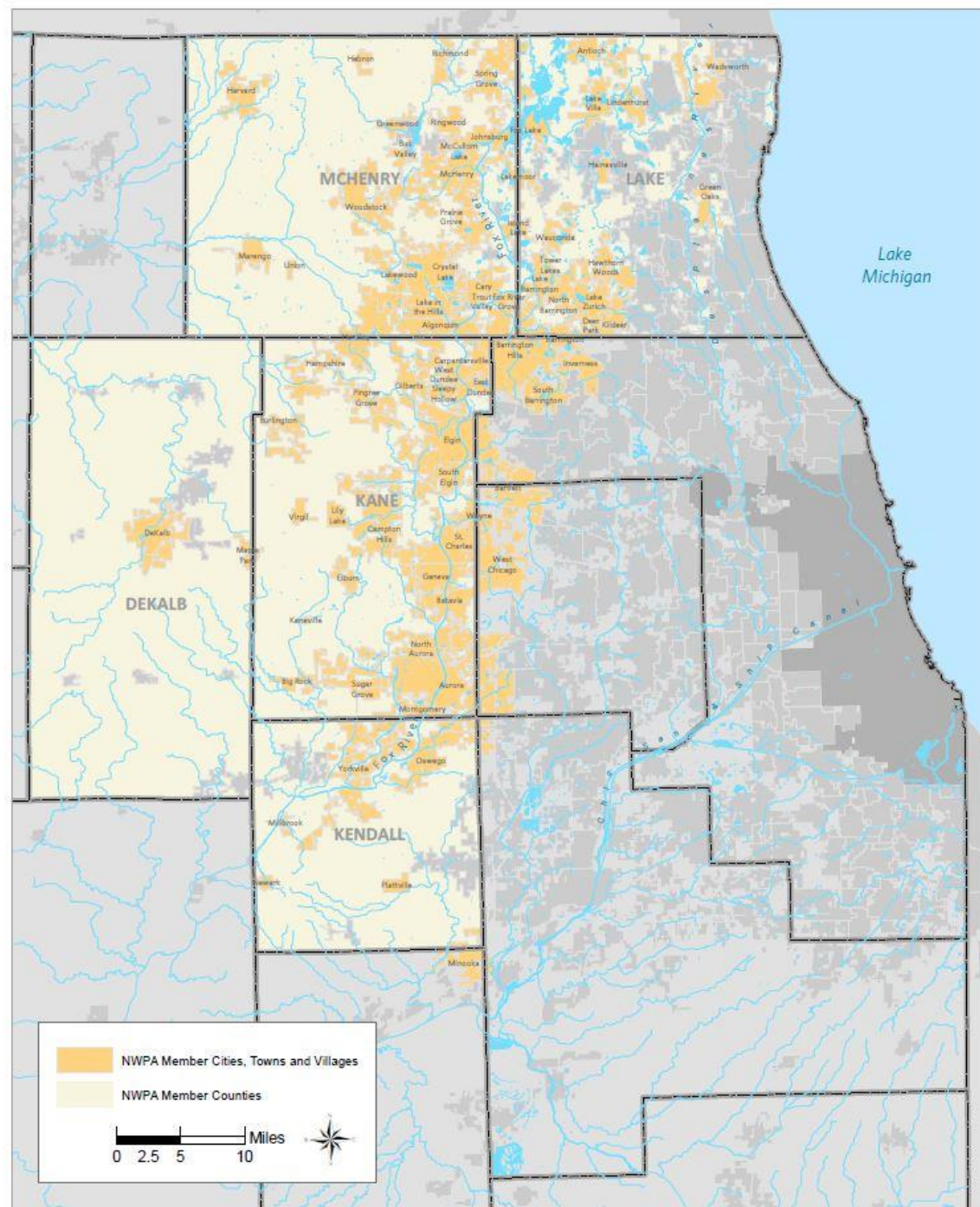
- Draft purpose and potential uses
- Review previous water use summary in Strategic Plan
- Review options for updates
- Other ideas

Draft purpose and potential uses

To provide NWPA members with overall water use in the subregion.

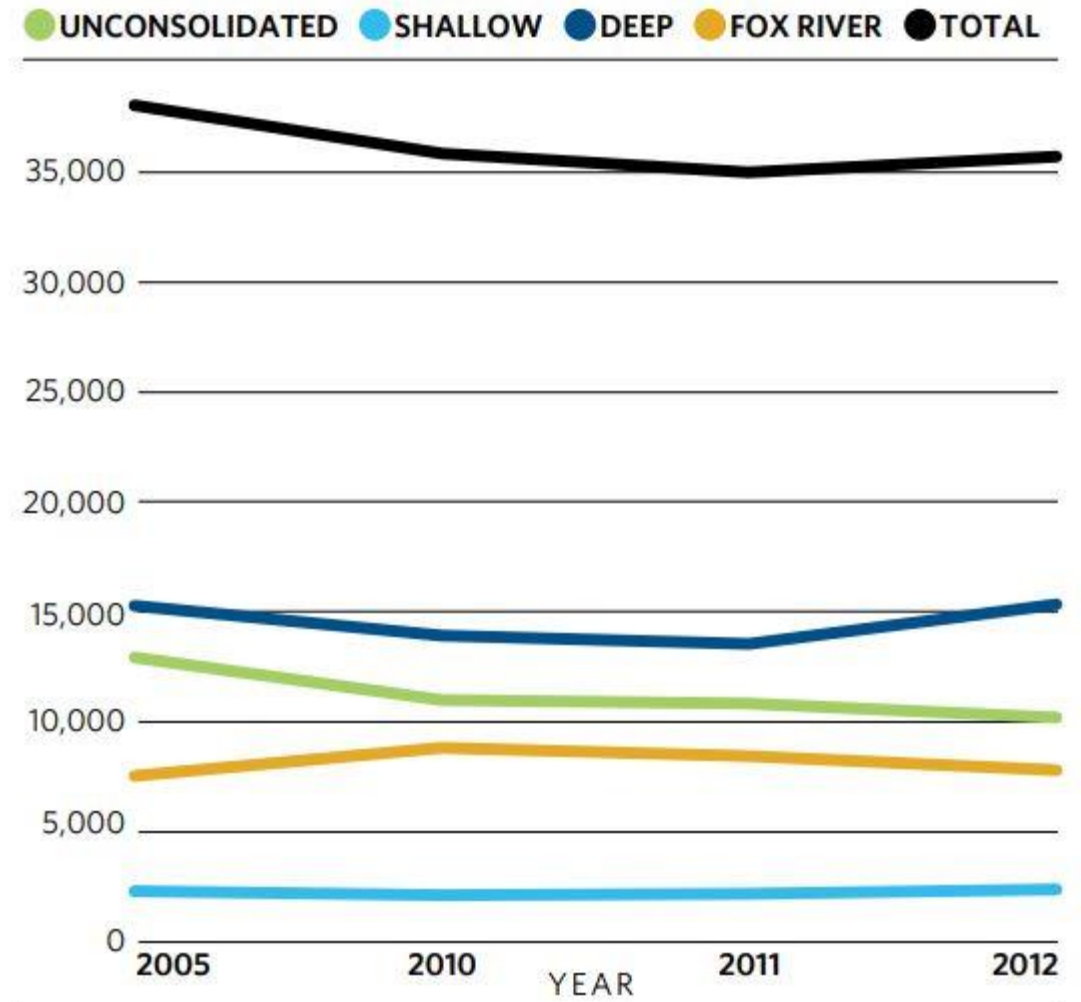
- Include in update of strategic plan
- Include in presentations, organization one-pager?
- Other uses?

NWPA



Water use summary in 2014-2016 Strategic Plan

Figure 5. Water withdrawals from all sources by Northwest Water Planning Alliance communities, *millions of gallons*

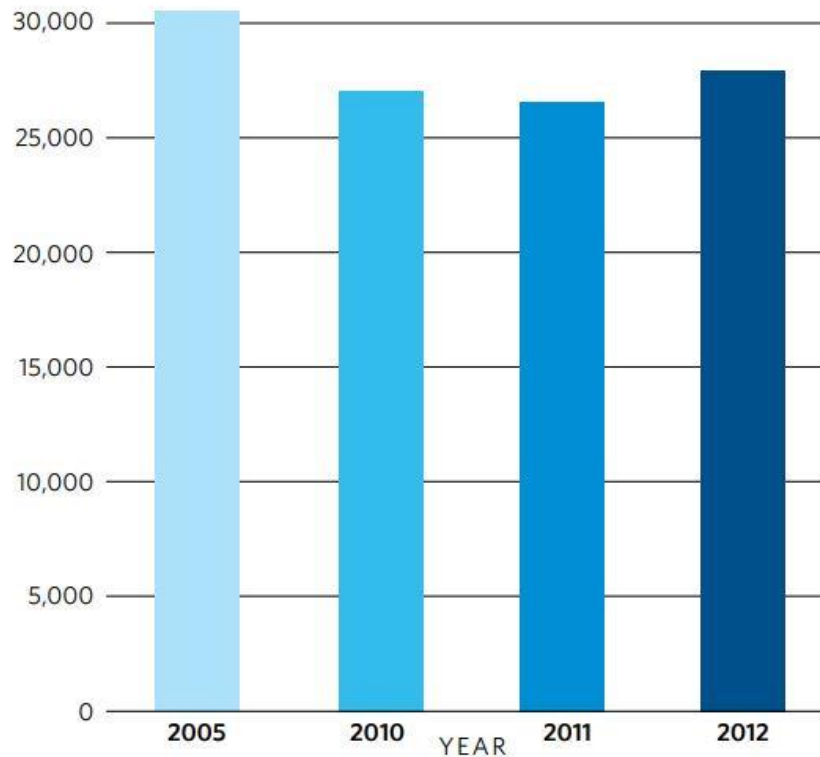


Source: Illinois Water Inventory Program, Illinois State Water Survey.

For those communities who have yet to report withdrawals, their most recent reported usage was used to estimate usage.

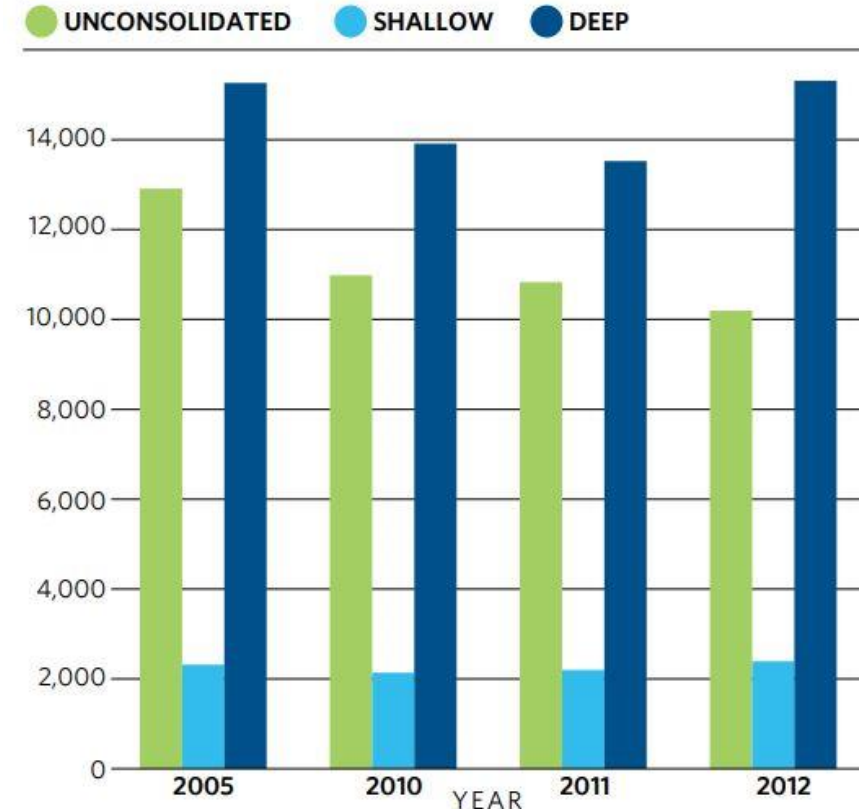
Water use summary in Strategic Plan

Figure 2. Total groundwater withdrawals by Northwest Water Planning Alliance communities, millions of gallons



Source: Illinois Water Inventory Program, Illinois State Water Survey.
For those communities who have yet to report withdrawals, their most recent reported usage was used to estimate usage.

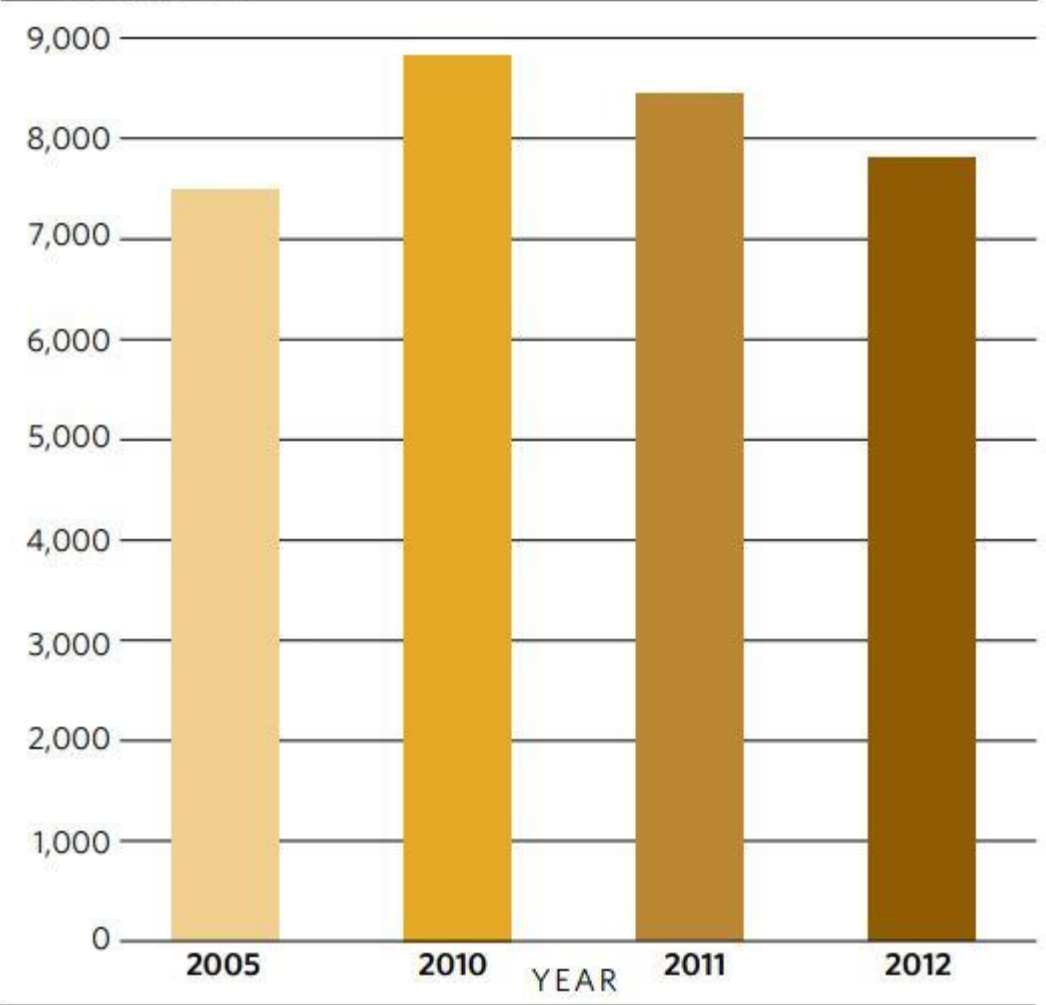
Figure 3. Withdrawals reported by groundwater source by Northwest Planning Alliance communities, millions of gallons



Source: Illinois Water Inventory Program, Illinois State Water Survey.
For those communities who have yet to report withdrawals, their most recent reported usage was used to estimate usage.

Water use summary in Strategic Plan

Figure 4. Fox River withdrawals by Aurora and Elgin,
millions of gallons



Source: Illinois Water Inventory Program, Illinois State Water Survey.

Questions

- Do you want to focus on NWPA members or by the water source?
- Do you want to focus on reporting past trends or do you want to present forecast data?
- Do you want to report only on water withdrawals or do you want to include information on demand factors?

Review options for updates

DATA

Water withdrawals by source

- Estimated (2002-2013)
- Projected (2015-2050)

Residential Sector, GPCD

- Estimated (2000-2013)
- Projected (2015-2050)

Non-residential Sector, GPED

- Estimated (2002-2013)
- Projected (2015-2050)

Residential Factors

- Housing density
- Price

OTHER?

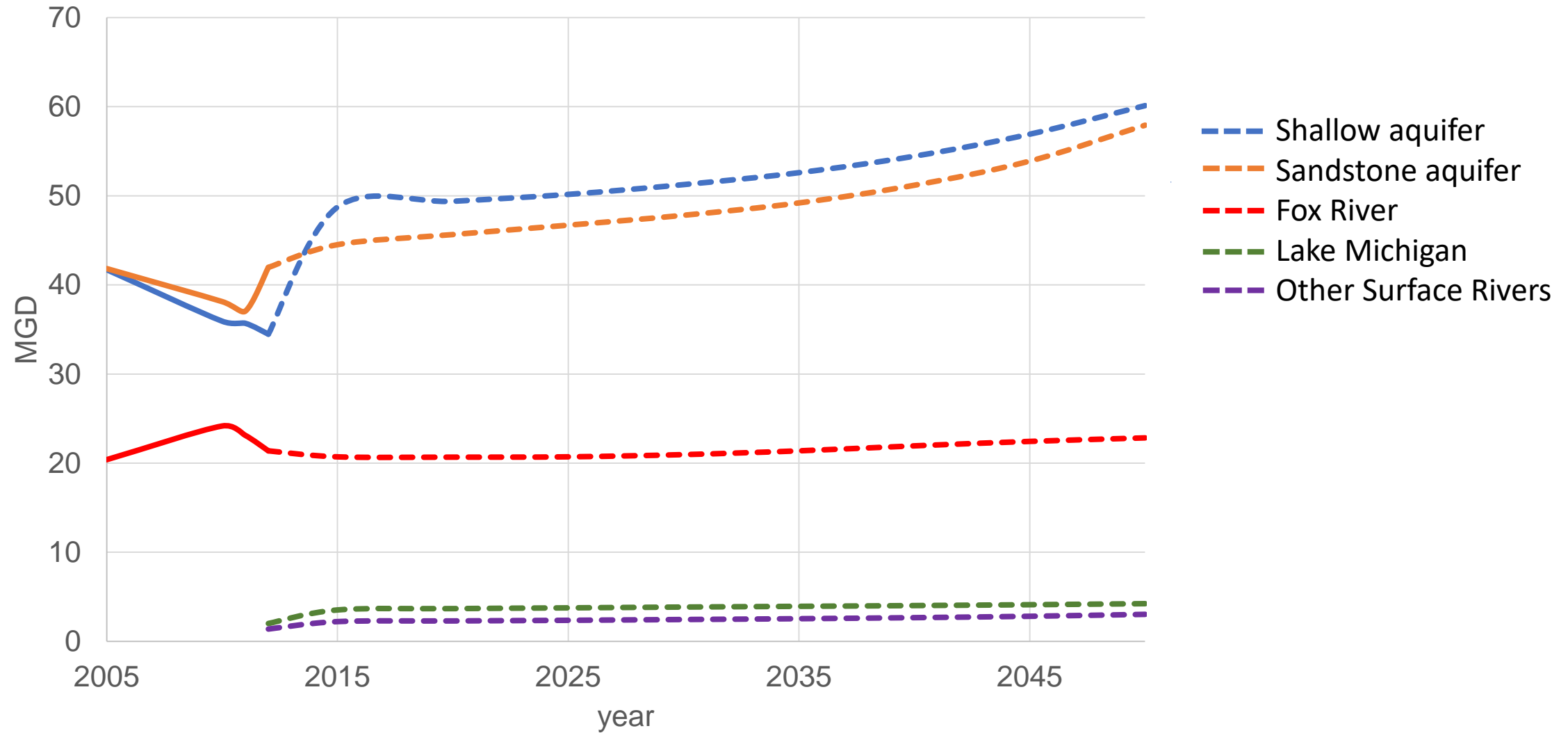
Supply information?

DATA FORMAT

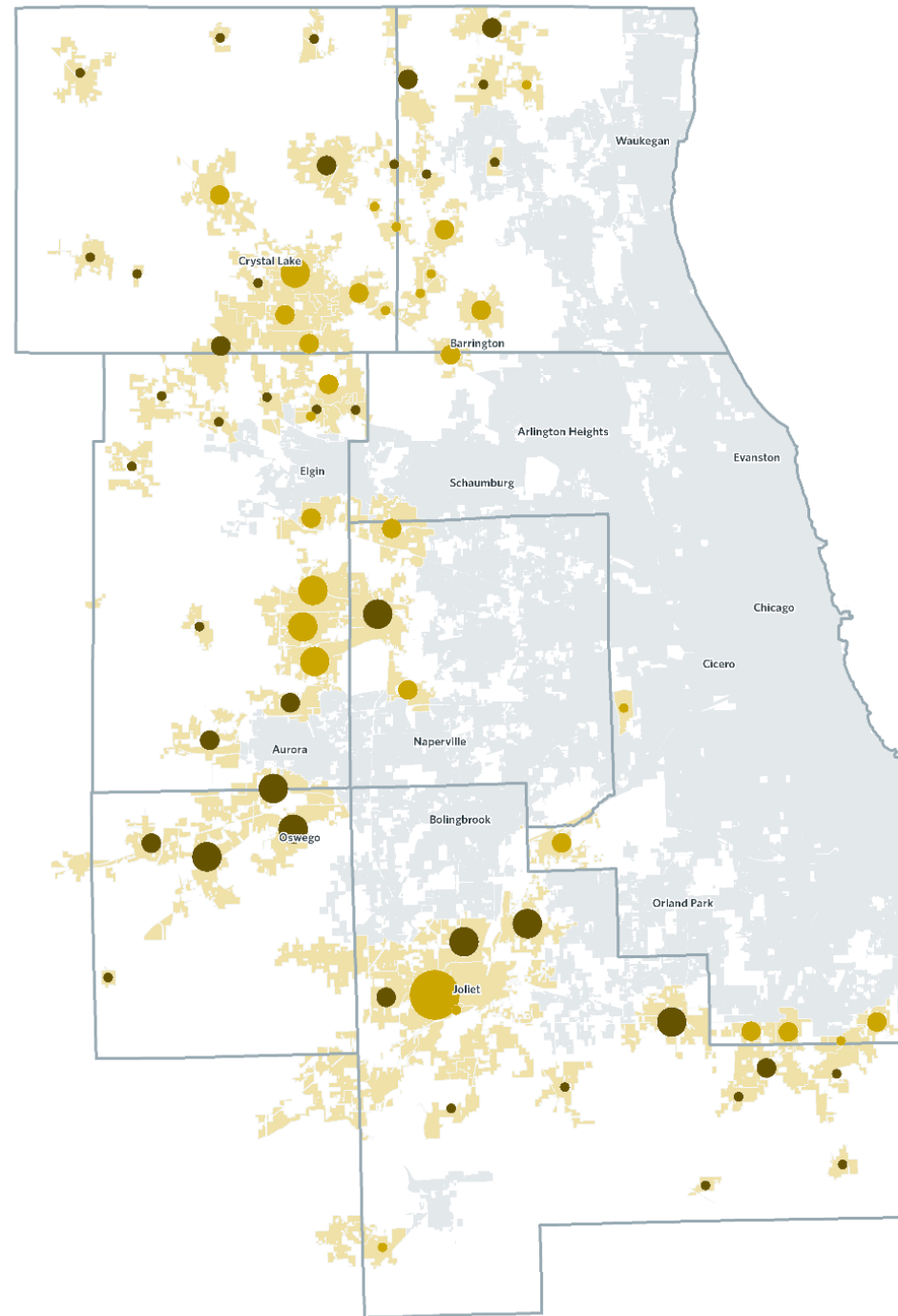
Charts

Maps

Water withdrawals by source

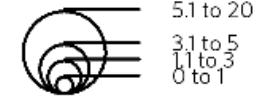


Example map



Forecasted 2050 water demand for groundwater dependent municipalities

Demand (MGD)

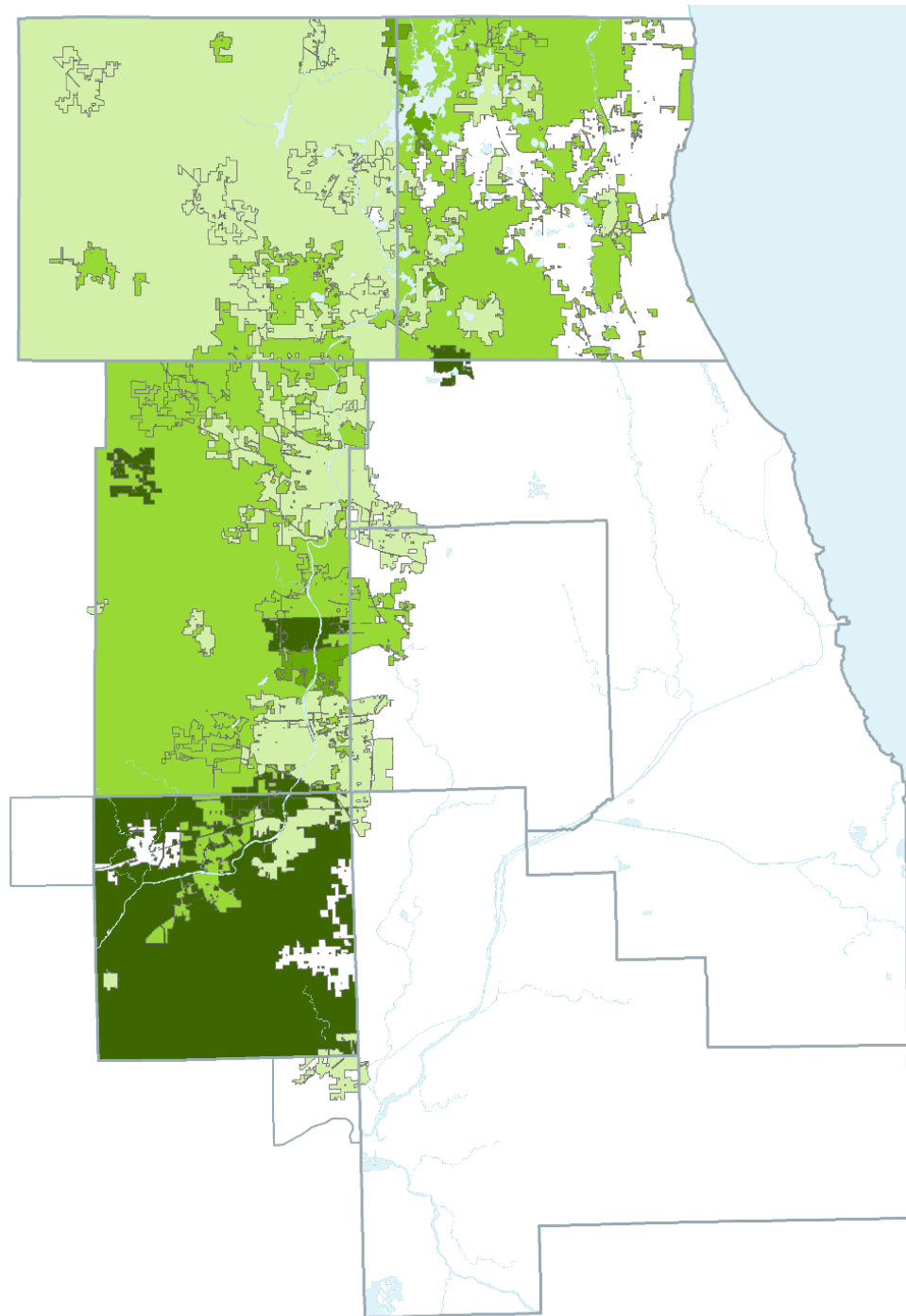


↑ **Brown Fill:** Demand increased between 2011 - 2050. ↓ **Gold Fill:** Demand decreased between 2011 - 2050.

Primary water source, 2011

- Surface water
- Groundwater

Example map



Residential GPCD, 2011

- Less than 65
- 65 to 75
- 75 to 85
- 85 to 95
- Greater than 95

NWPA municipalities with individual forecasts

Algonquin	Lake Villa
Antioch	Lake Zurich
Aurora	Lakemoor
Barrington	Lakewood
Bartlett	Lindenhurst
Batavia	Maple Park
Burlington	Marengo
Carpentersville	McHenry
Cary	Minooka
Crystal Lake	Montgomery
East Dundee	Newark
Elburn	North Aurora
Elgin	Oswego
Fox Lake	Pingree Grove
Fox River Grove	Richmond
Geneva	Sleepy Hollow
Gilberts	South Elgin
Green Oaks	St. Charles
Hainesville	Sugar Grove
Hampshire	Tower Lakes
Harvard	Union
Hebron	Wauconda
Huntley	West Chicago
Island Lake	West Dundee
Lake Barrington	Woodstock
Lake in the Hills	Yorkville

County remainders

NWPA municipalities included in county remainders

Kane	Big Rock
	Campton Hills
	Kaneville
	Lily Lake
	Virgil
	Wayne
Kendall	Millbrook
	Plattville
McHenry	Bull Valley
	Greenwood
	Johnsburg
	McCullom Lake
	Prairie Grove
	Ringwood
	Spring Grove
	Trout Valley
	Cook
Inverness	
South Barrington	
Lake	Deer Park
	Hawthorn Woods
	Kildeer
	North Barrington
	Wadsworth

NWPA Strategic Plan

NWPA Strategic Plan

Update strategic plan by recognizing achievements and focusing efforts.

Today -- looking for feedback on strategic plan progress

Strategic Plan for the NWPA

Mission Statement

The NWPA, formed by intergovernmental agreement, seeks to collaboratively plan for and steward our shared river and groundwater resources to ensure a sustainable water supply for the people, economy, environment, and future generations.

Strategic Plan for the NWPA

Vision Statement

The NWPA area will have dependable supplies of water for generations to come.

Strategic Plan for the NWPA

Goals:

- A. Build the organization capacity to achieve mission
- B. Provide education and outreach to raise awareness of the value of water
- C. Develop sustainable water use policies and practices that are widely adopted and protective of water supplies

Strategic Plan for the NWPA

Goal A: Build the organization capacity to achieve mission.

- Develop an annual stream of revenue
- Develop a work plan/budget consistent with the strategic plan
- Create a structure for communication with and engagement of members

Strategic Plan for the NWPA

Goal B: Provide education and outreach to raise awareness of the value of water.

- Promote a water use conservation and efficiency ethic
- Incorporate ongoing educational opportunities for elected officials and school-age children

Strategic Plan for the NWPA

Goal C: Develop sustainable water use policies and practices that are widely adopted and protective of water supplies.

- Define sustainable water use by each water source
- Track monthly and annual water use among members
- Improve the scientific understanding of water supplies in terms of quantity and quality
- Make recommendations to protect groundwater and surface water quality
- Achieve consistency among member regarding an outdoor lawn-watering ordinance
- Organize to develop drought-preparedness recommendations

NWPA TAC Agendas

NWPA TAC Agendas

Brainstorm potential agenda items