



Chicago Metropolitan
Agency for Planning

Regional Water Supply Planning in Northeastern Illinois

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Water Resource Planner

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Champaign, Illinois

Rooted in the past ...

The Land of Lincoln: where to begin?

- * Governor Kerner in 1965,
 - * Governor Thompson in 1980,
 - * Governor Ryan in 2000 and 2002,
 - * Governor Blagojevich in 2006,

 - * drought of 2012, and ... funding in 2014!
-



OFFICE OF THE GOVERNOR
ROD R. BLAGOJEVICH • GOVERNOR

NEWS

FOR IMMEDIATE RELEASE
January 9, 2006

Governor issues executive order to study state's water needs to protect against shortages and develop regional plans



Funding for RWSP

IDNR, Office of Water Resources

* full in 2007 and 2008

* *cut in 2009!*

* restored in 2010



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Water 2050

Northeastern Illinois Regional Water Supply/Demand Plan

March 2010



ILLINOIS STATE
WATER SURVEY
PRAIRIE RESEARCH INSTITUTE

Contract Report 2012-03

Northeastern Illinois Water Supply Planning Investigations: Opportunities and Challenges of Meeting Water Demand in Northeastern Illinois

Scott C. Meyer, H. Allen Wehrmann, H. Vernon Knapp, Yu-Feng Lin,
F. Edward Glatfelter, James R. Angel, Jason F. Thomason, Daniel A. Injerd



ILLINOIS

Funding for RWSP

IDNR, Office of Water Resources

2007

2008

Cut for 2009 – (yikes!)

Restored for 2010!

CMAP – Water 2050 Implementation Support Program

2011

2012

CMAP – Local Technical Assistance Program

2013

IDNR, OWR 2014 - 2015

CMAP



Northwest Water Planning Alliance Strategic Plan: 2014-16

May 2014



Mission Statement

*The Northwest Water Planning Alliance (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 2014-2016

3 Goals –

- * Build the **organizational capacity** to achieve mission.
- * Provide **education and outreach** to raise awareness of the value of water as a finite asset.
- * Develop **sustainable water-use policies and practices** that are widely adopted and protective of water supplies.



NWPA Accomplishments

* Resource Commitments

- Monthly TAC meetings,
- bimonthly EC meetings,
- Staff support provided by:



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NWPA Accomplishments

- * Outdoor watering ordinance (6)

see website:

<http://www.nwpa.us/>

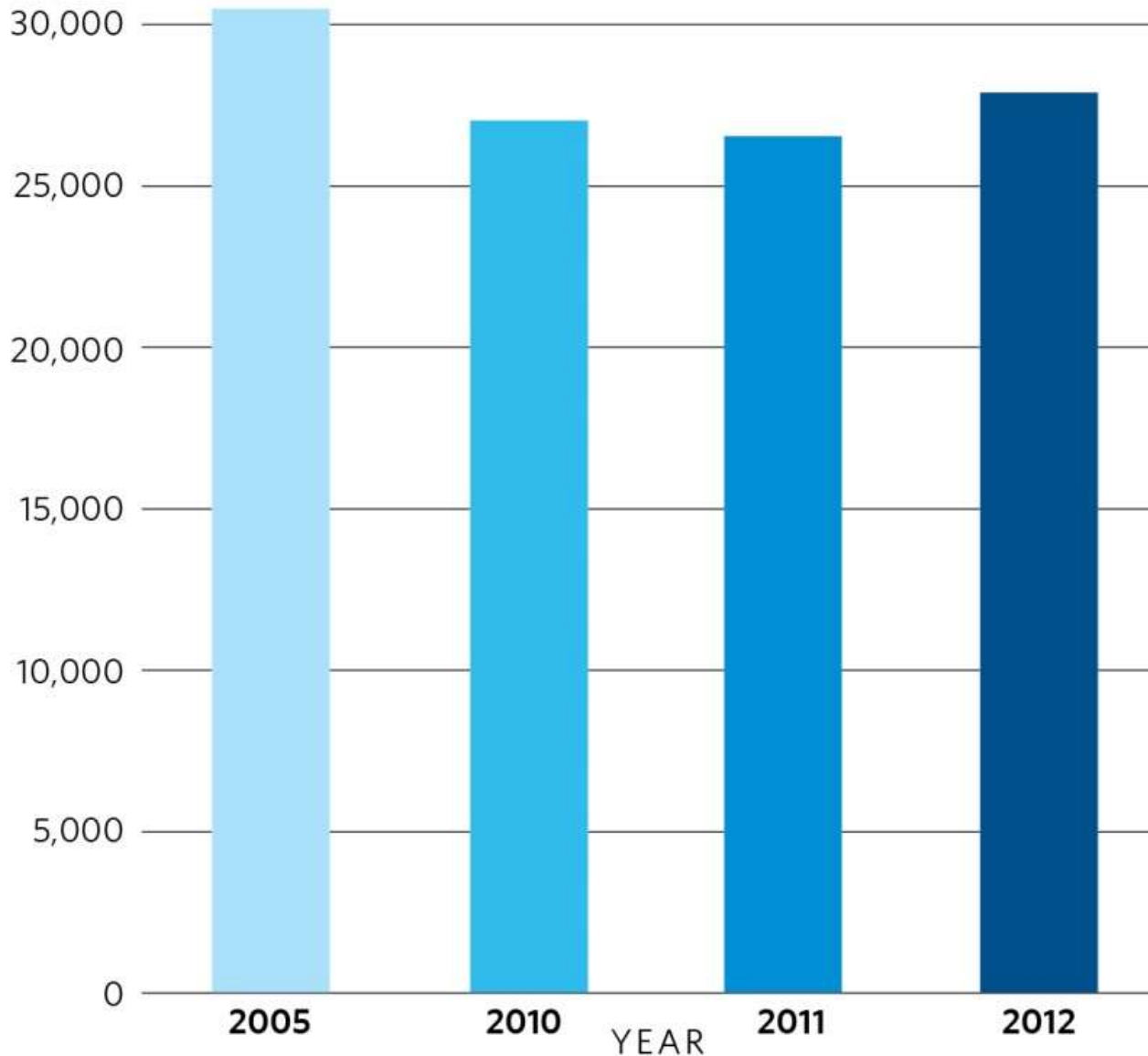
- * **NEW** Monthly online water-use reporting tool

- * WaterSense Partnership Program



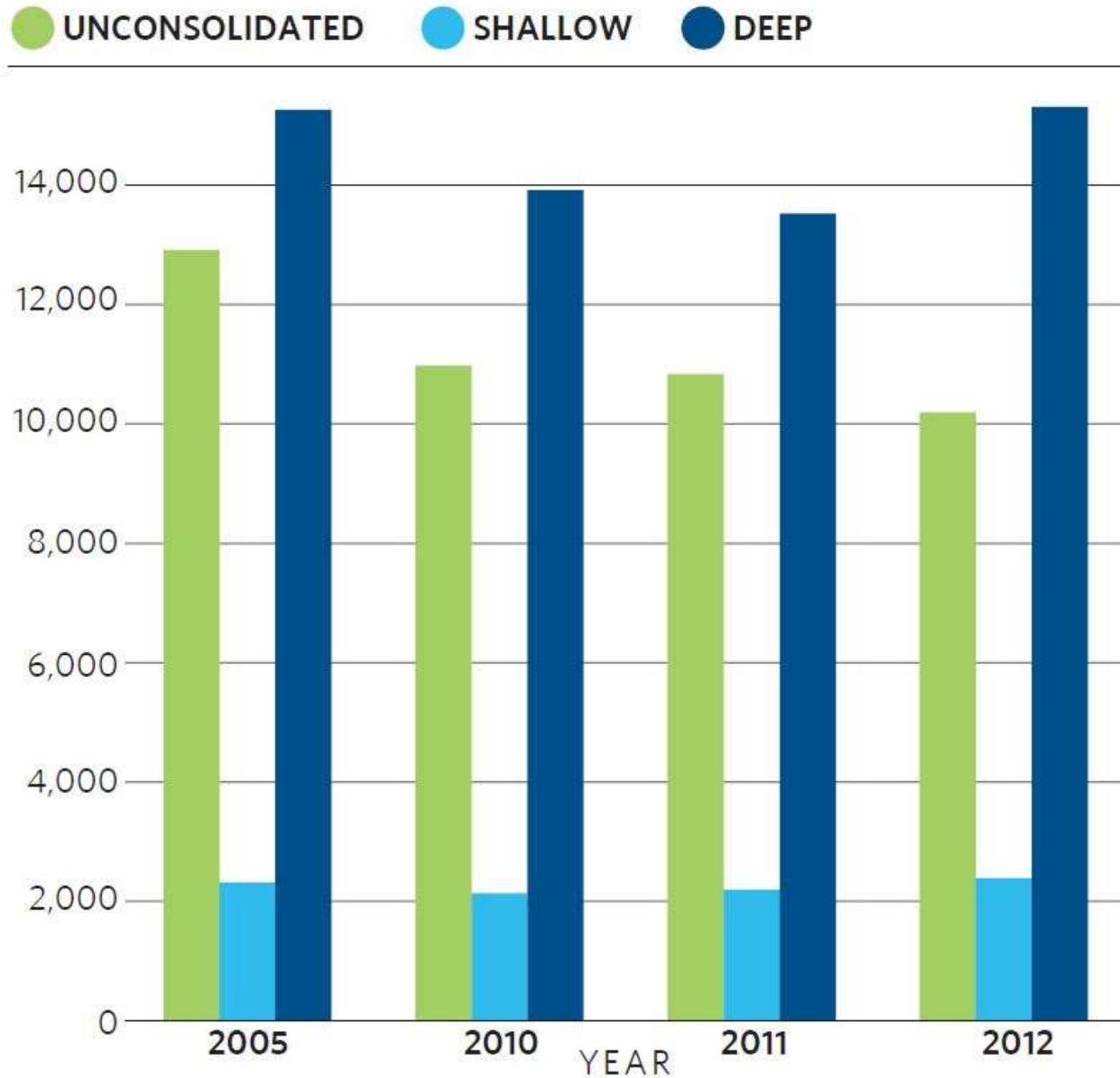
- * Recognized by IDNR and IEPA!
-

Total groundwater withdrawals, by Northwest Water Planning Alliance communities, millions of gallons of water



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

Withdrawals reported by groundwater source by Northwest Water Planning Alliance communities, *millions of gallons of water*

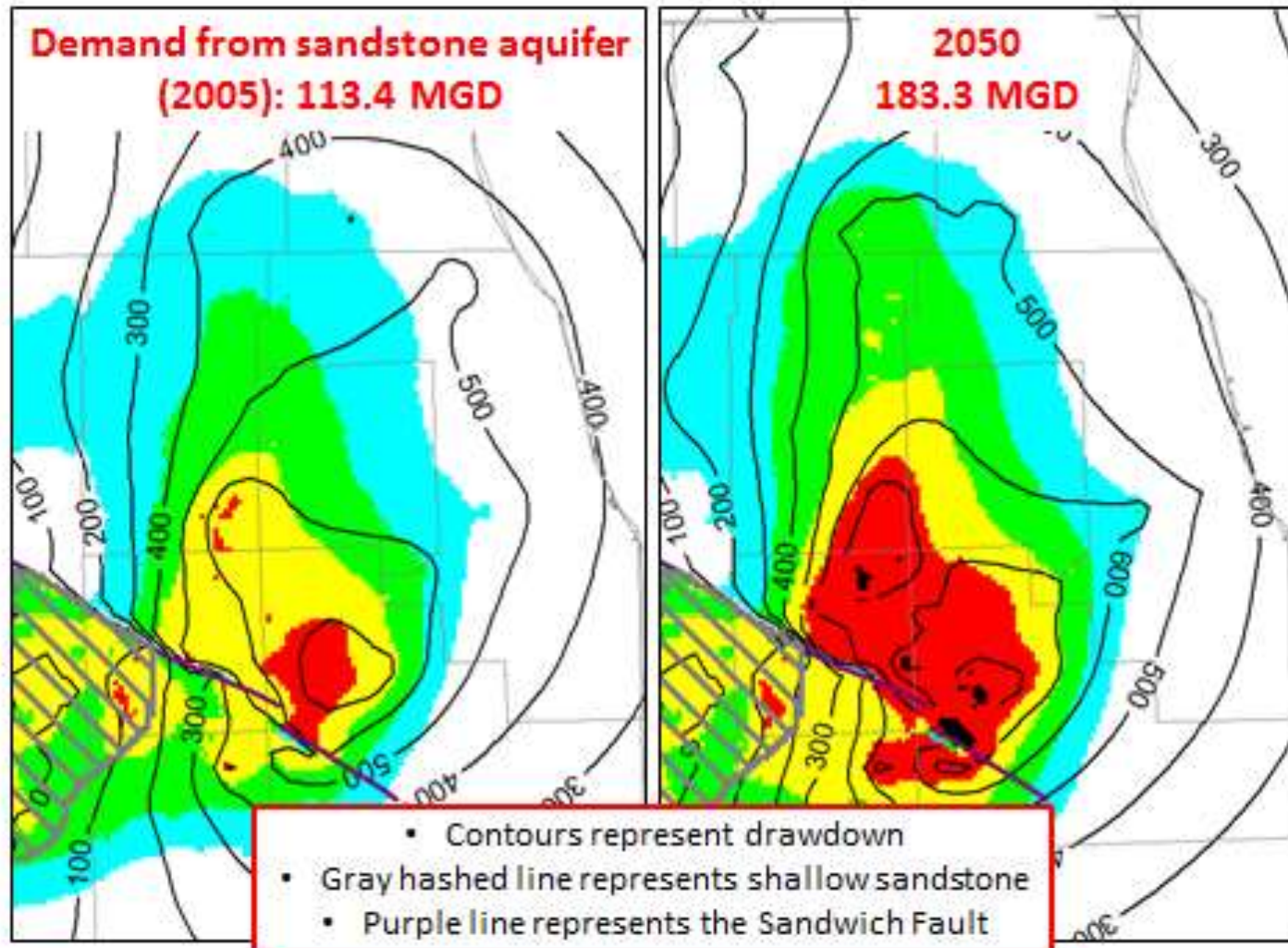


Source: Illinois Water Inventory Program, Illinois State Water Survey.

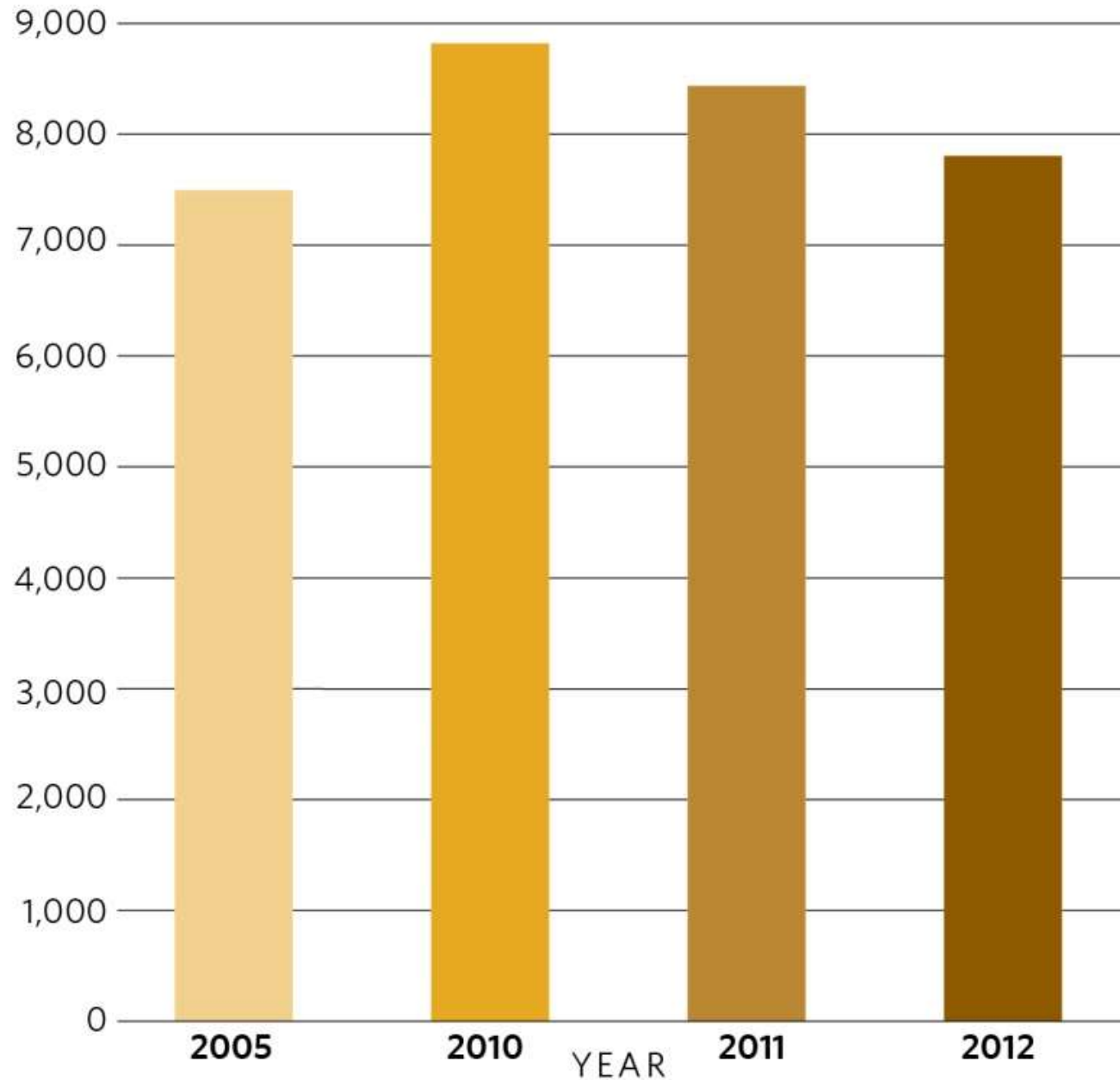
ICCG & GAC Case Study?

Baseline Scenario

Head above sandstone



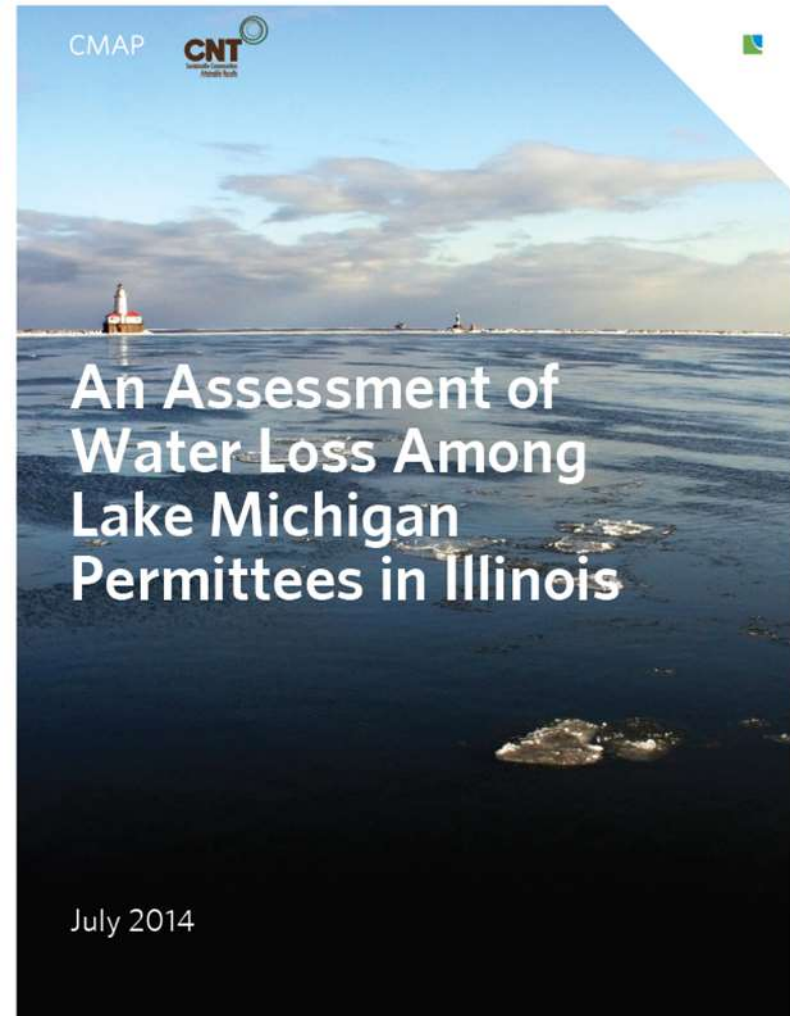
Fox River withdrawals by Aurora and Elgin, millions of gallons of water



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

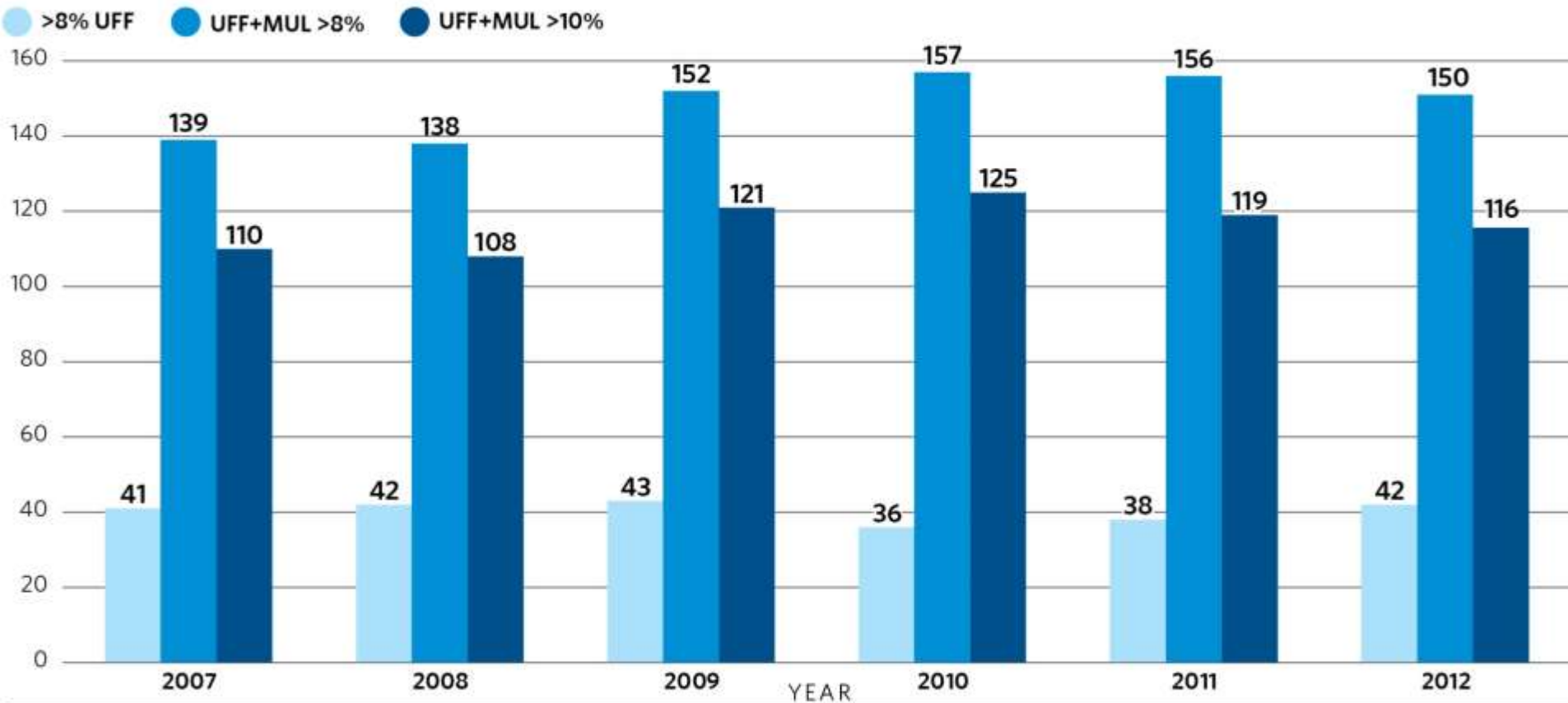
Lake Michigan

- * Amendments to rules pending.
 - * Water System Improvement Plan
 - * Data Tool
-



Obj. #1: Data Analysis: Permittee Water Loss

Permittee water loss relative to current and potential future thresholds, 2007-12, by number of permittees



The composition of permittees varied each year due to reporting and data errors; n=193 in 2007 and 2008, n=194 in 2011, and n=195 in 2009, 2010, and 2012.

MUL: Maximum unavoidable loss; UFF: Unaccounted for flow.

Source: Illinois Department of Natural Resources, 2014.

Illinois Water Loss Accounting Program Steering Committee

Center for Neighborhood Technology
Chicago Metropolitan Agency for Planning

Illinois EPA, Bureau of Water

Illinois DNR, Office of Water Resources

Illinois Rural Water Association

Illinois Section AWWA

Natural Resources Defense Council

Northwest Water Planning Alliance

www.isawwa.org/WaterLoss

IDNR Action Plan *for a* State Water Supply Program

7 recommendations –

5 programmatic, and
2 legislative to:

- * new funding
- * clarify authority

Thank you!

Questions??

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