Water Wise

What We Need To Know About Our Water Resources

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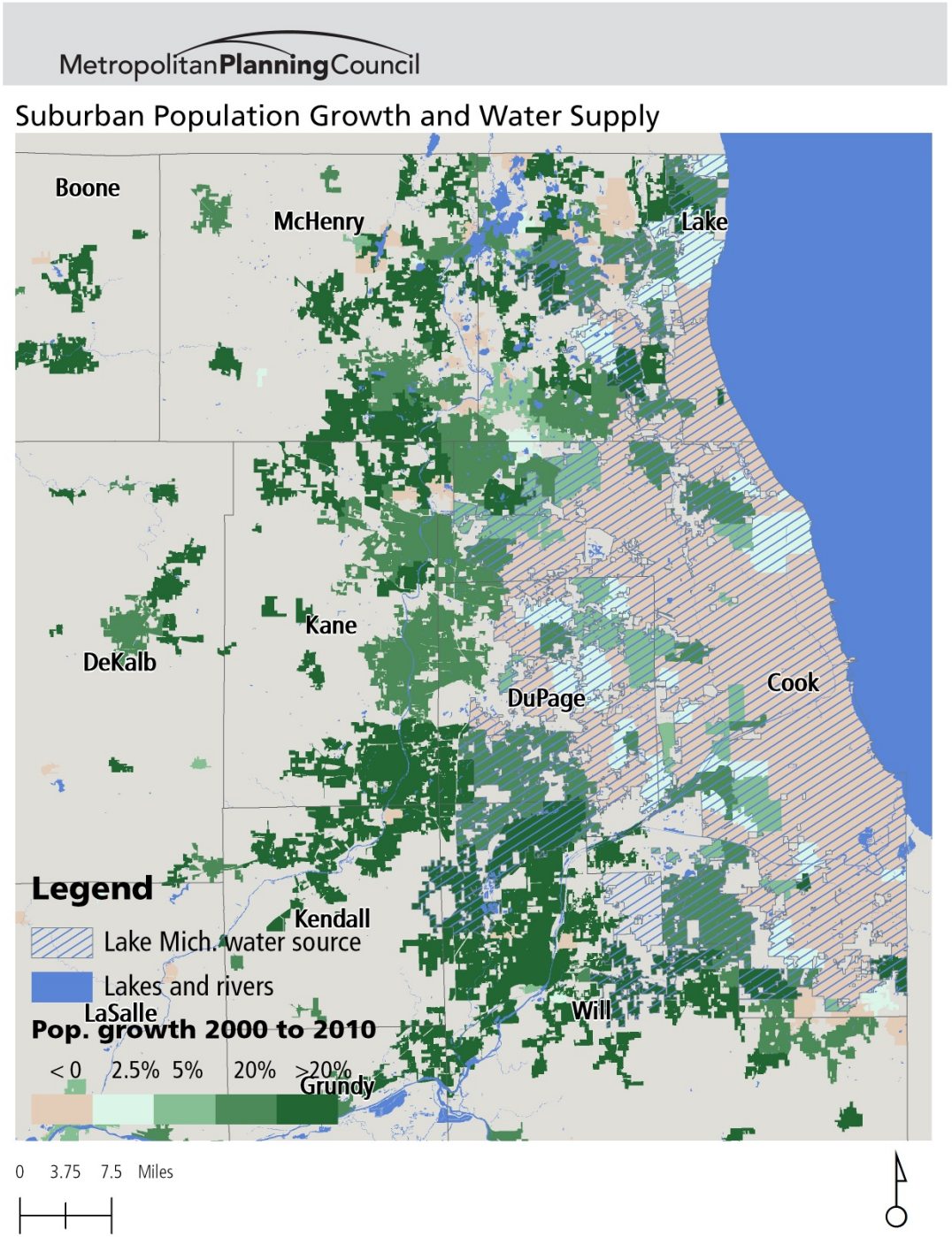
Population growth in groundwater and river water areas



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Population growth in groundwater and river water areas

Top 20 NE Illinois Communities by Total Pop. Growth, 2000-2010	Total Pop. Growth	Percentage Growth
Aurora	54,909	38.40%
Joliet	41,212	38.80%
Plainfield	26,543	203.58%
Huntley	18,561	323.93%
Romeoville	18,527	87.59%
Bolingbrook	17,045	30.26%
Oswego	17,029	127.79%
Elgin	13,701	14.50%
Naperville	13,495	10.51%
Montgomery	12,967	237.01%
Round Lake	12,447	213.06%
Yorkville	10,732	173.40%
Lockport	9,648	63.51%
Tinley Park	8,302	17.15%
Shorewood	7,929	103.16%
Crest Hill	7,508	56.33%
Frankfort	7,391	71.13%
Carpentersville	7,105	23.23%
Minooka	6,953	175.09%
Algonquin	6,770	29.09%
Communities that rely on ground or river water		

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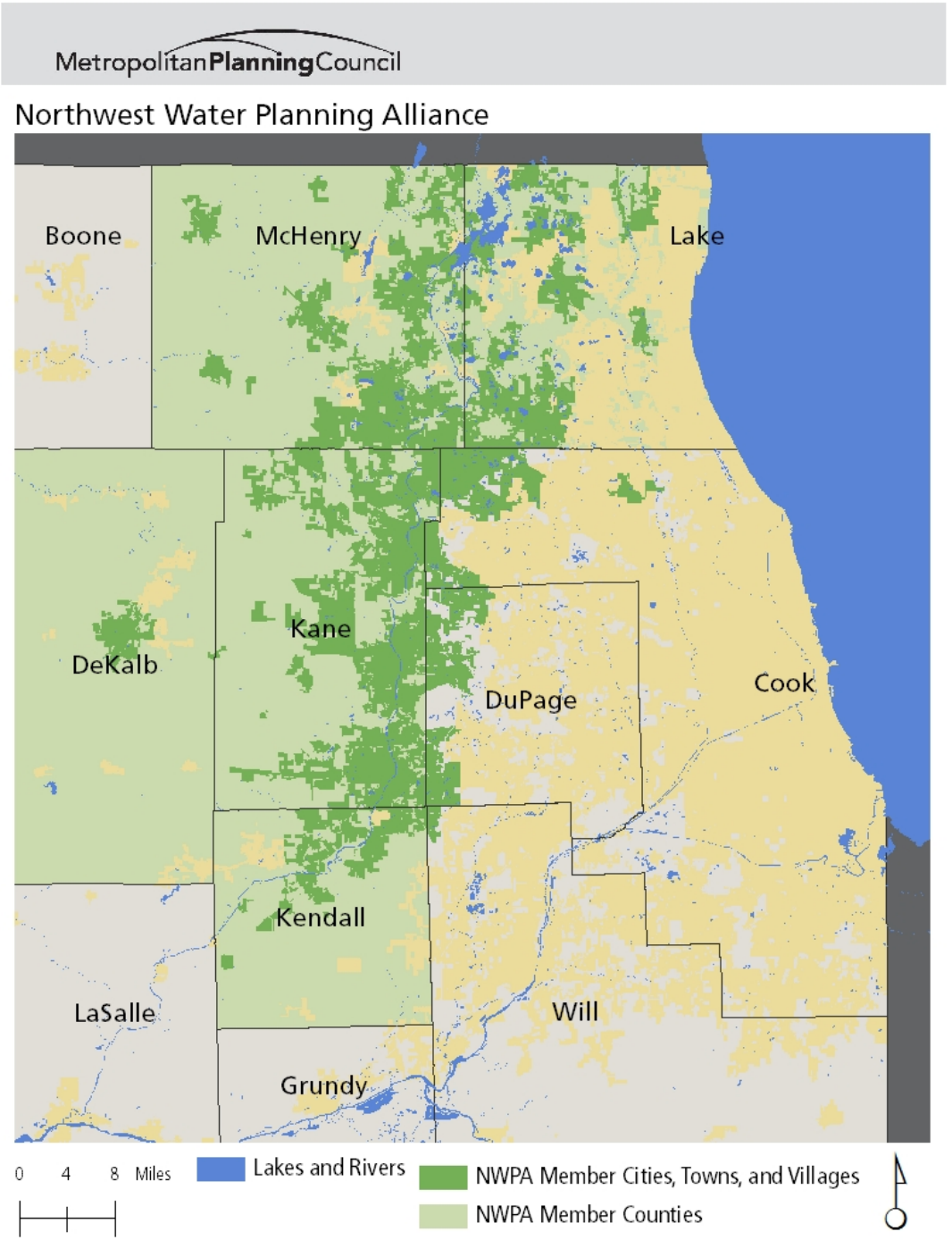
Northwest Water Planning Alliance: A collaborative response

- Decisions will require modeling and analytic support from Ill. State Water Survey



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Lake Michigan water loss

- Ill. Dept. of Natural Resources requires communities to hold "Unaccounted for Flow" below 8% of "Net Annual Pumpage"

- At the same time, immense amount of loss is forgiven
  - (miles of pipe of specific age) x (loss rate) = "Maximum Unavoidable Loss"

- In 2009, 36 of 208 communities were above 8% UFF

- But true loss = UFF + MUL
  - In 2009, 138 of 208 communities were above 8% UFF +MUL

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Reducing loss of Lake Michigan water

	System		1999	2001	2003	2005	2007	2009	Percentage Point Change, 1999-2009
Headed the **Right** Way	Community 1 (southern Cook)	UFF as a % of NAP	29.5%	6.0%	0.0%	6.4%	5.0%	3.5%	-26
		MUL+UFF as a % of NAP	36.9%	14.5%	9.3%	16.0%	14.7%	13.4%	-23.5
		Population	13,500	13,500	12,620	12,620	12,620	12,620	
	Community 2 (western Cook)	UFF as a % of NAP	23.2%	6.7%	6.5%	7.2%	2.8%	5.0%	-18.2
		MUL+UFF as a % of NAP	28.5%	11.6%	11.6%	12.5%	8.2%	10.2%	-18.3
		Population	20,241	20,241	20,241	20,241	20,241	20,241	
	Community 3 (southwestern Cook)	UFF as a % of NAP	15.9%	0.0%	2.5%	0.0%	0.0%	0.0%	-15.9
		MUL+UFF as a % of NAP	18.4%	2.8%	5.2%	2.5%	3.2%	3.3%	-15.1
		Population	2,040	2,040	2,040	2,040	2,134	2,134	
	Community 4 (southwestern Cook)	UFF as a % of NAP	13.6%	19.9%	0.0%	0.5%	8.8%	0.0%	-13.6
		MUL+UFF as a % of NAP	18.0%	23.7%	5.9%	6.1%	14.7%	7.2%	-10.8
		Population	2,065	2,065	1,999	1,999	1,999	1,999	
	Community 5 (northern Cook)	UFF as a % of NAP	9.5%	2.9%	15.0%	12.1%	10.2%	0.0%	-9.5
		MUL+UFF as a % of NAP	13.5%	7.3%	19.2%	16.0%	14.5%	4.3%	-9.2
		Population	96,770	91,000	93,000	93,000	93,000	93,000	

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Increasing loss of Lake Michigan water

	System		1999	2001	2003	2005	2007	2009	Percentage Point Change, 1999-2009
Headed the **Wrong** Way	Community 6 (northern Cook)	UFF as a % of NAP	4.1%	0.0%	17.5%	13.5%	19.4%	21.8%	17.7
		MUL+UFF as a % of NAP	11.4%	9.2%	25.8%	21.1%	27.6%	29.6%	18.2
		Population	5,316	5,319	5,319	5,319	5,500	5,319	
	Community 7 (Cook/DuPage border)	UFF as a % of NAP	0.0%	1.6%	0.0%	9.3%	5.0%	17.6%	17.6
		MUL+UFF as a % of NAP	4.3%	5.2%	3.4%	12.7%	8.5%	22.90%	18.6
		Population	18,000	20,000	20,703	20,703	20,703	N/A	
	Community 8 (western Cook)	UFF as a % of NAP	5.6%	6.3%	10.5%	10.4%	12.1%	22.3%	16.7
		MUL+UFF as a % of NAP	7.6%	8.3%	13.1%	13.5%	15.3%	26.3%	18.7
		Population	285	285	285	285	254	254	
	Community 9 (northern Will)	UFF as a % of NAP	5.7%	1.4%	7.0%	6.5%	9.2%	29.7%	24
		MUL+UFF as a % of NAP	13.6%	7.9%	11.1%	10.7%	16.8%	36.0%	22.4
		Population	14,337	17,155	23,544	26,349	29,942	24,675	
	Community 10 (western Cook)	UFF as a % of NAP	1.6%	5.1%	5.9%	2.8%	16.6%	23.4%	21.8
		MUL+UFF as a % of NAP	8.8%	12.2%	12.9%	9.7%	25.1%	31.9%	23.1
		Population	7,672	8,155	8,155	8,155	8,155	8,155	

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Reducing loss requires…

- A change in IDNR's accounting process
- Prioritizing available funding to assist communities in reducing loss
  - Requires coordination between IDNR and Ill. Environmental Protection Agency
- Investment in metering, leak detection, and other loss reduction strategies within local utilities
- Remember, all that lost water is also lost revenue

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