



Citizen Forums

Rochester, Bloomington, Duluth, Worthington,
St. Cloud, and Moorhead

November 27th through December 14th, 2012





Minnesota Environmental Congress

Air · Water · Land · Energy: Our Voice, Our Future

- Citizen Forums kick-off the Environmental Congress
- Input will be gathered and presented to Dayton Administration, legislators, and Minnesota citizens
- Statewide Environmental Congress will be held in March 2013
- Create a vision for the future of Minnesota's environmental and economic prosperity



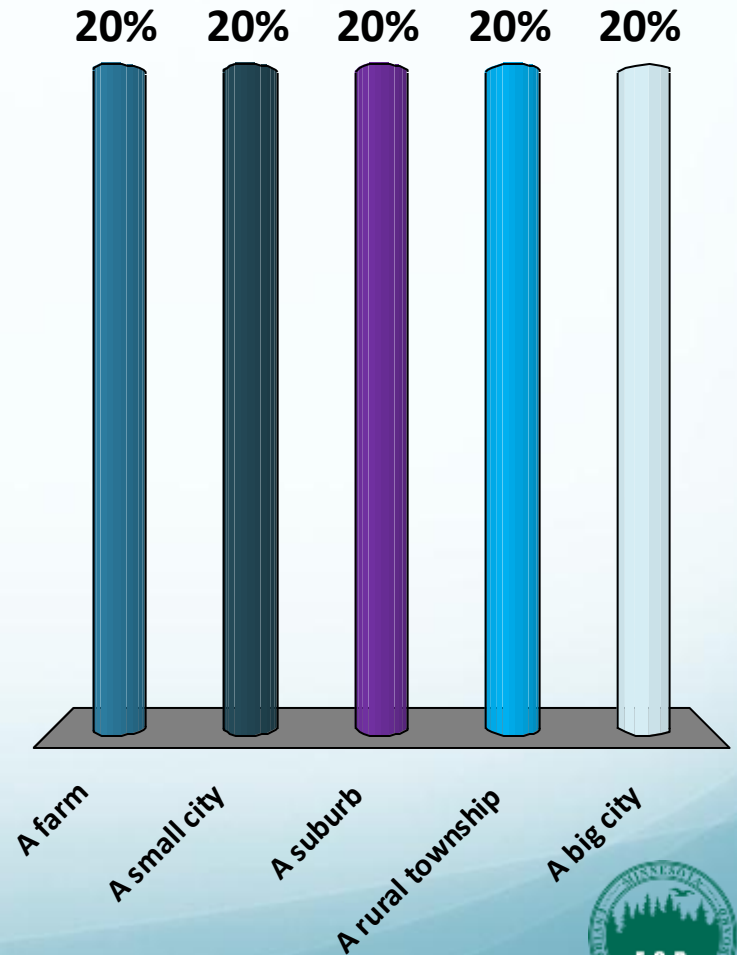
How to use the Clickers

- Records only your last response
- Multiple choice and ranking questions
- Timer
- If you think we missed something, write it down!
- We want your initial reaction, don't worry about being "right"



Where do you call home?

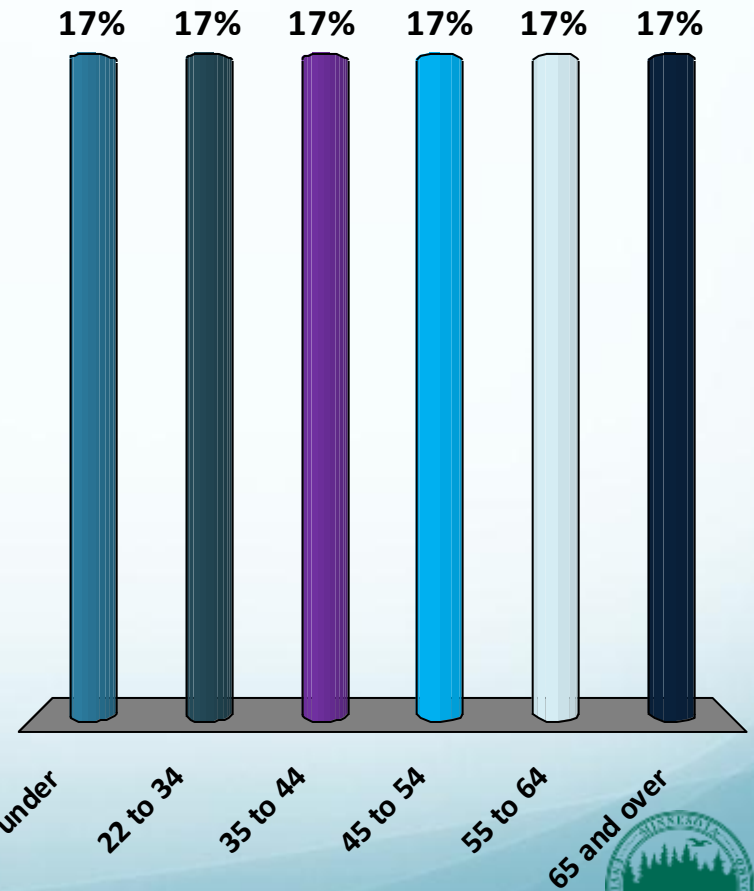
- a) A farm
- b) A small city
- c) A suburb
- d) A rural township
- e) A big city



What is your age?

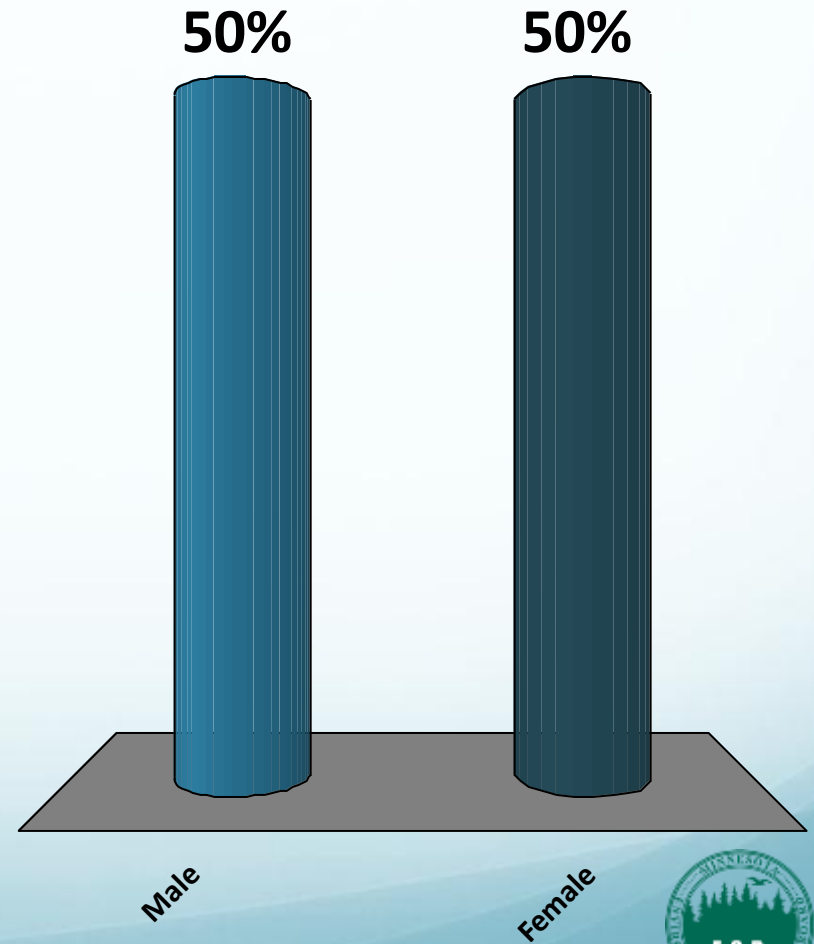
Please choose one.

- a) 21 and under
- b) 22 to 34
- c) 35 to 44
- d) 45 to 54
- e) 55 to 64
- f) 65 and over



What is your gender?

- a) Male
- b) Female



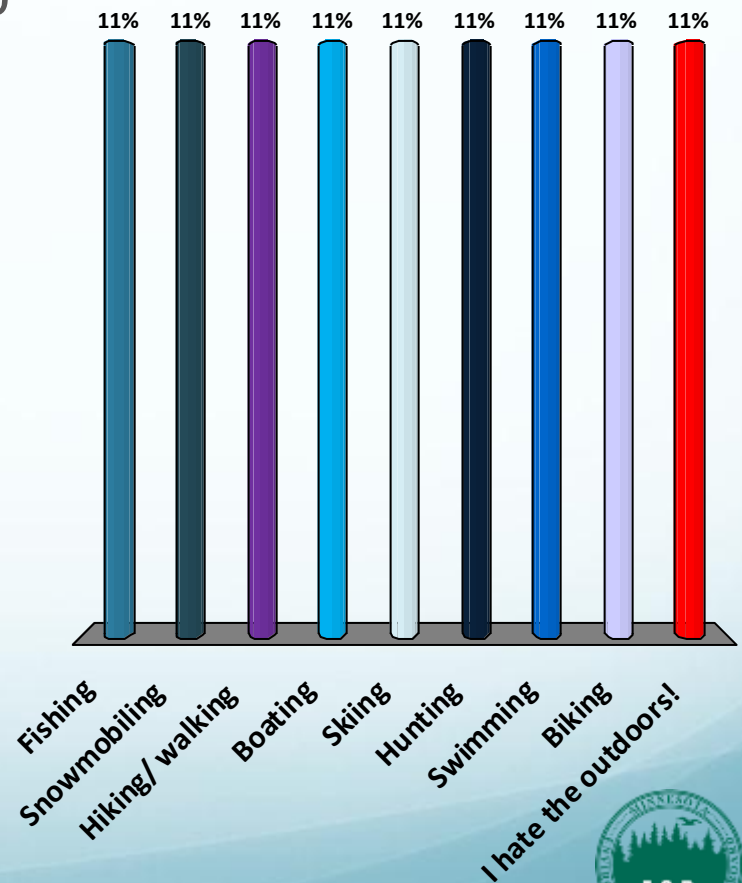
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What's your favorite recreational outdoor activity?

Ranking question! (Please rank your top 3, your number one entry being your favorite).

- a) Fishing
- b) Snowmobiling
- c) Hiking/ walking
- d) Boating
- e) Skiing
- f) Hunting
- g) Swimming
- h) Biking
- i) I hate the outdoors!





Minnesota Environment and Energy Report Card



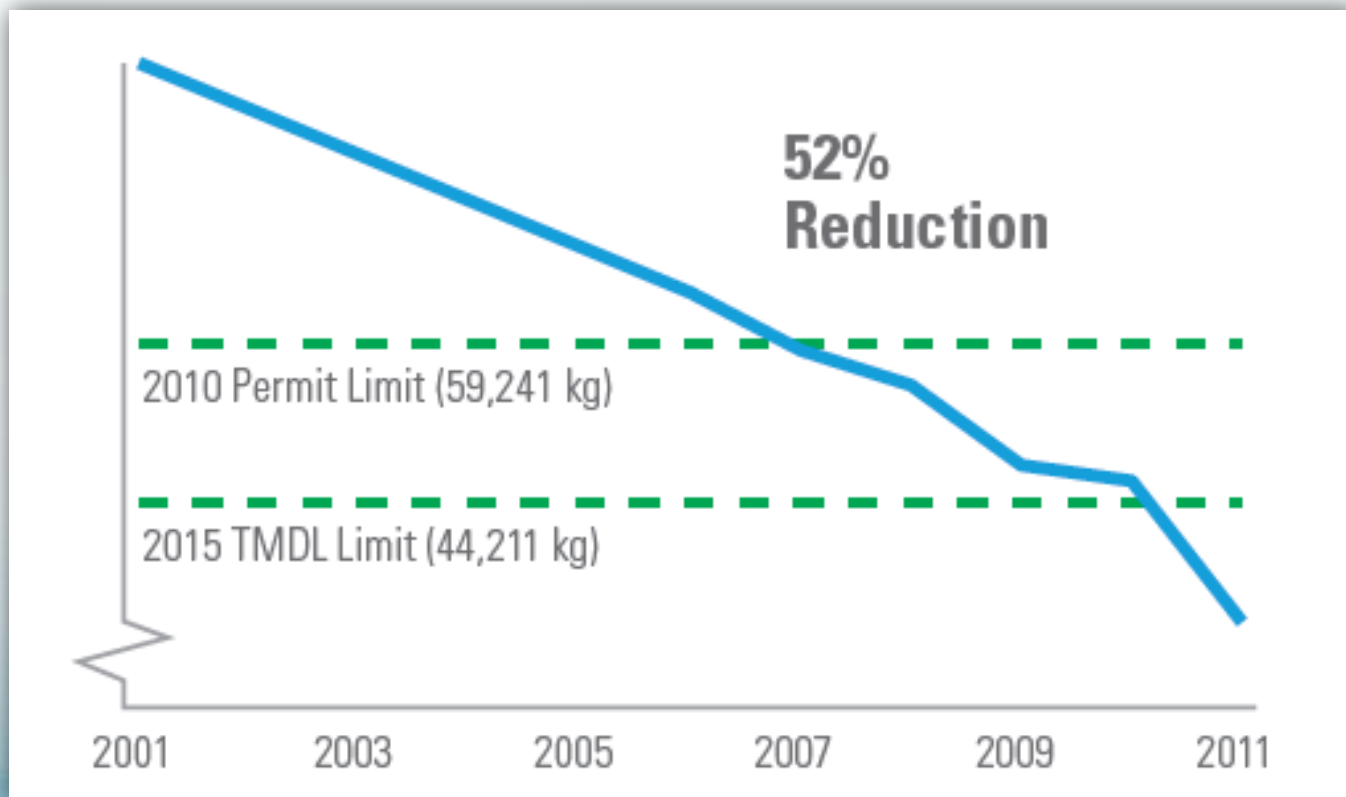
Environmental and Energy Measures
Critical for our Quality of Life



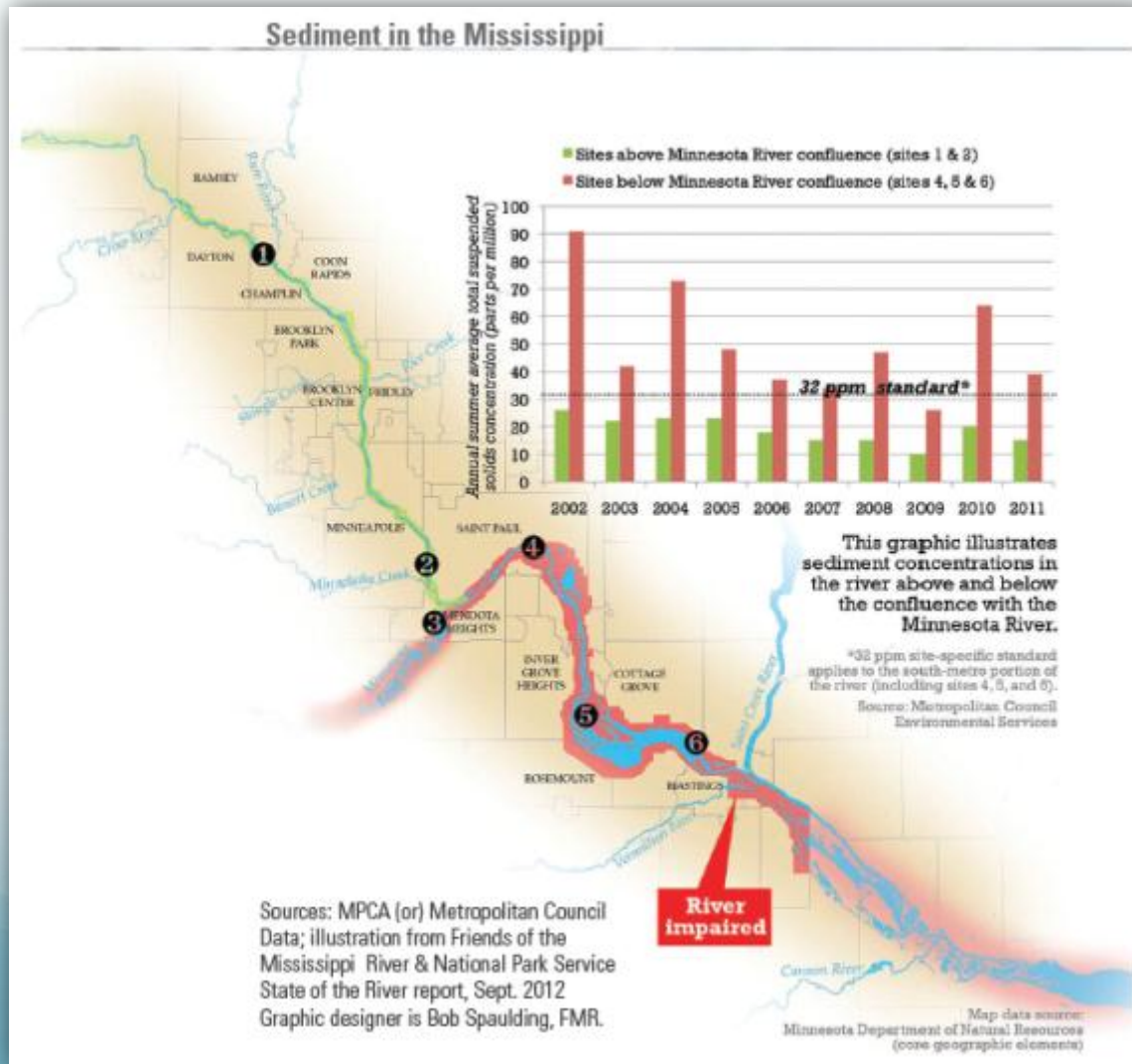
WATER for drinking, fishing and swimming



Success story: reduction of phosphorous in the Minnesota river



WATER for drinking, fishing and swimming



Our challenge: Nonpoint source pollution, demonstrated at the confluence of the Minnesota and the Mississippi River



WATER for drinking, fishing and swimming



Generally speaking, do you agree or disagree with each of the following statements about water quality in Minnesota?

- The lakes and rivers around the state are clean.
- The lakes and rivers near where I live are becoming cleaner.

Options	1 Strongly agree	2 Agree	3 Neutral	4 Disagree	5 Strongly disagree
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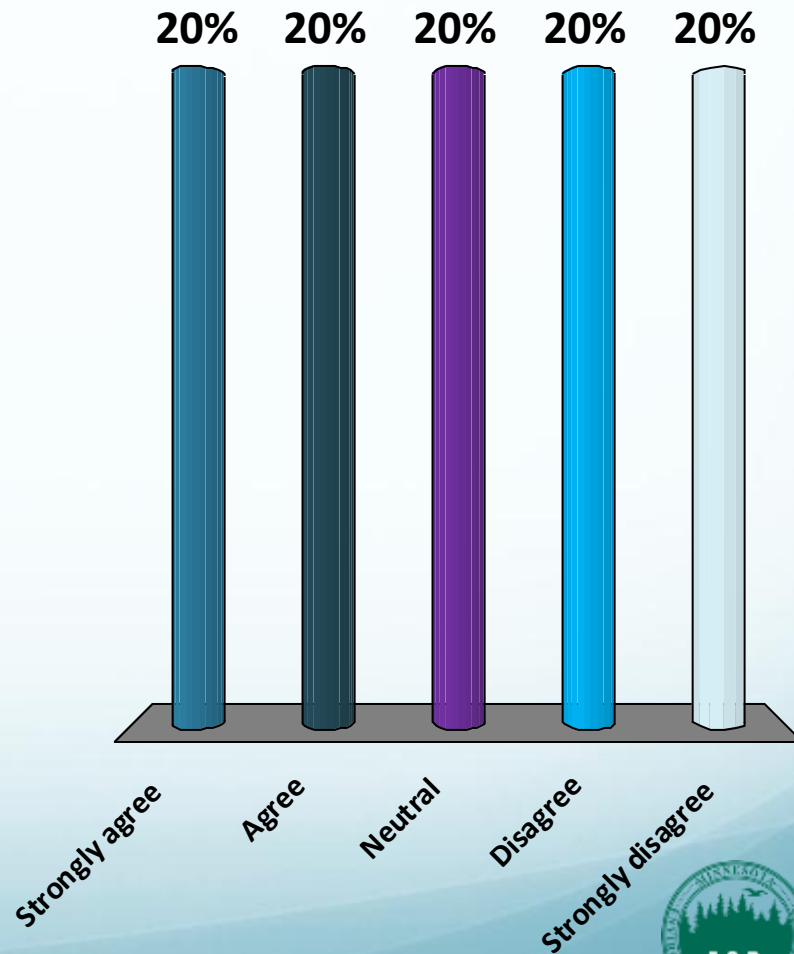


WATER for drinking, fishing and swimming



1. The lakes and rivers **around the state** are clean.

- 1) Strongly agree
- 2) Agree
- 3) Neutral
- 4) Disagree
- 5) Strongly disagree

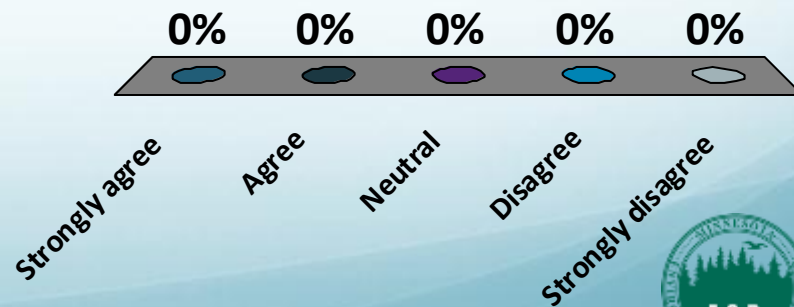


WATER for drinking, fishing and swimming



2. The lakes and rivers **near where I live** are becoming cleaner.

- 1) Strongly agree
- 2) Agree
- 3) Neutral
- 4) Disagree
- 5) Strongly disagree



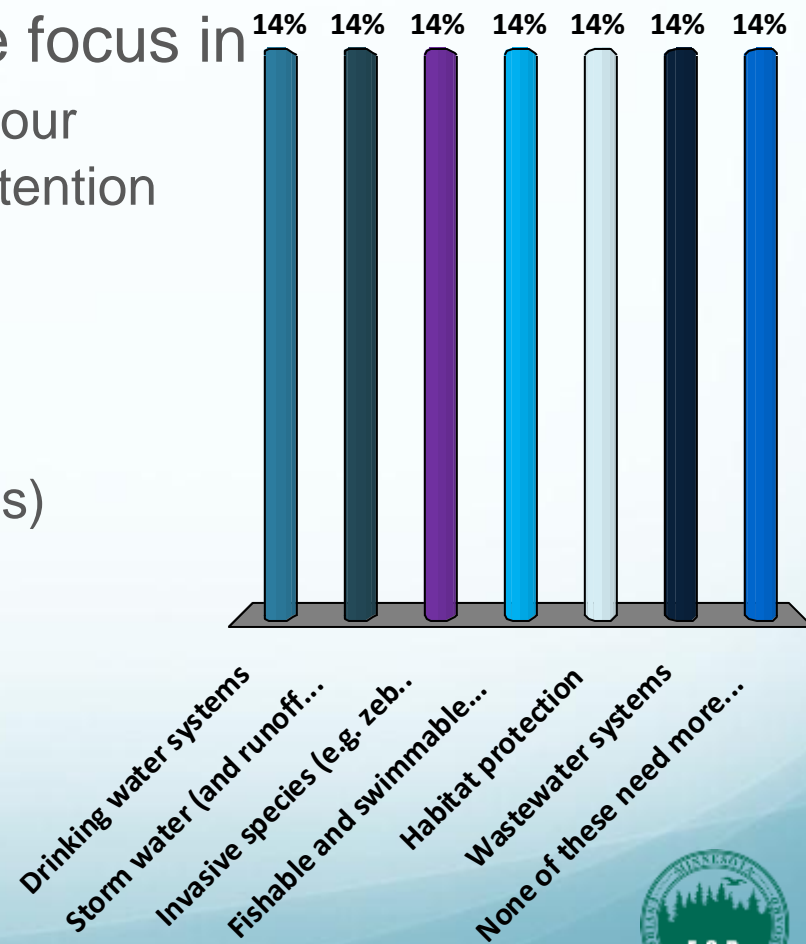
WATER for drinking, fishing and swimming



3. Which of the following water-related issues do you believe needs more focus in Minnesota? (Rank your top 3, where your number 1 ranked item needs the most attention and action)

- a) Drinking water systems
- b) Storm water (and runoff) pollution
- c) Invasive species (e.g. zebra mussels)
- d) Fishable and swimmable waters (lakes, rivers, and streams)
- e) Habitat protection
- f) Wastewater systems
- g) None of these need more focus

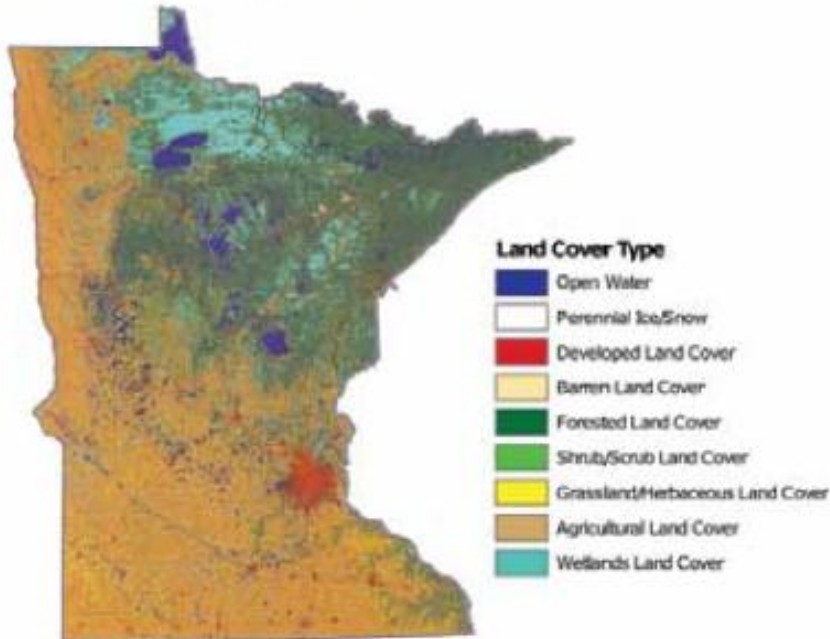
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LAND for farming, wildlife and recreation

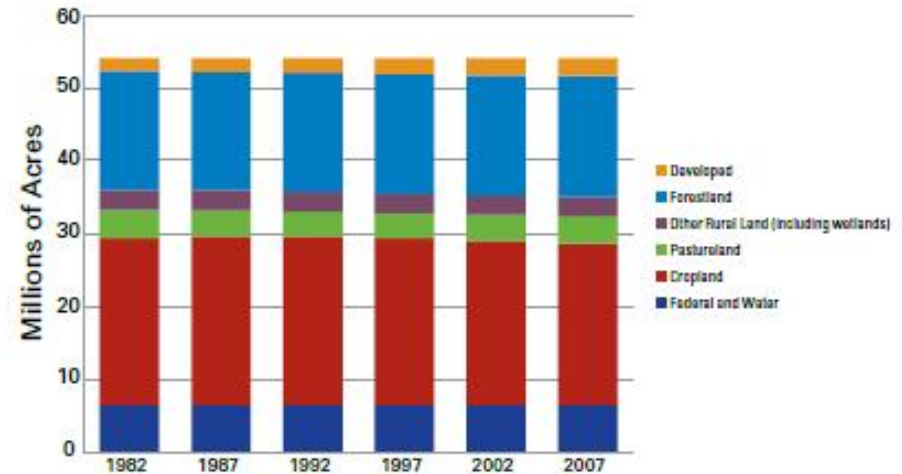


Current Minnesota Land Cover



Source: U.S. Forest Service/U.S. Geological Survey

Surface Area of Minnesota Land Cover/Use, 1982-2007
(in millions of acres)



Source: 2007 National Resources Inventory, USDA/NRCS

Note: Minnesota has 50.96 million acres of land area.

As Minnesota's population grows, there will be a greater demand for land to be used for commercial, industrial, residential and institutional development.

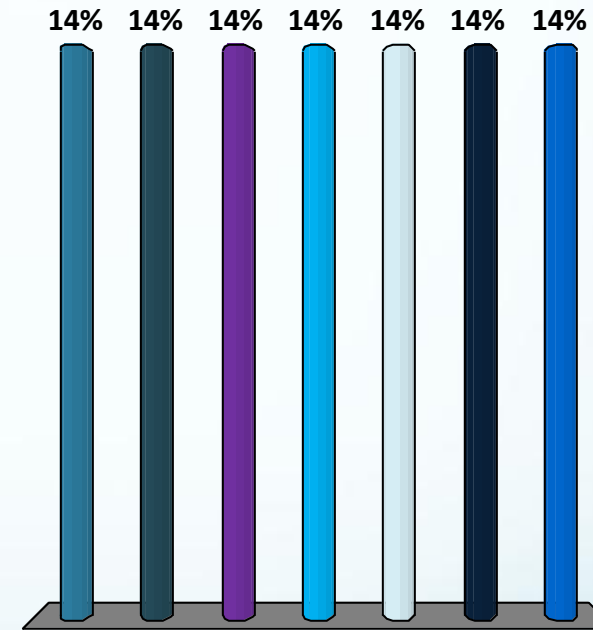


LAND for farming, wildlife and recreation



4. By 2035, Minnesota's population is expected to grow by nearly a million people. In the face of development pressures, which would be your highest priority? (Choose two.) (Source: Office of Geographic and Demographic Analysis/MnGEO)

- a) Protection of critical habitat areas
- b) Protection of agricultural lands
- c) Protection of forests
- d) Protection of parks and other recreational natural areas
- e) Encourage people to live in already developed areas
- f) Encourage business growth in already developed areas
- g) Other



Protection of critical hab...
Prot... of agricultural...
Protection of forests
Encourage people to live ..
Encourage business grow...
Other

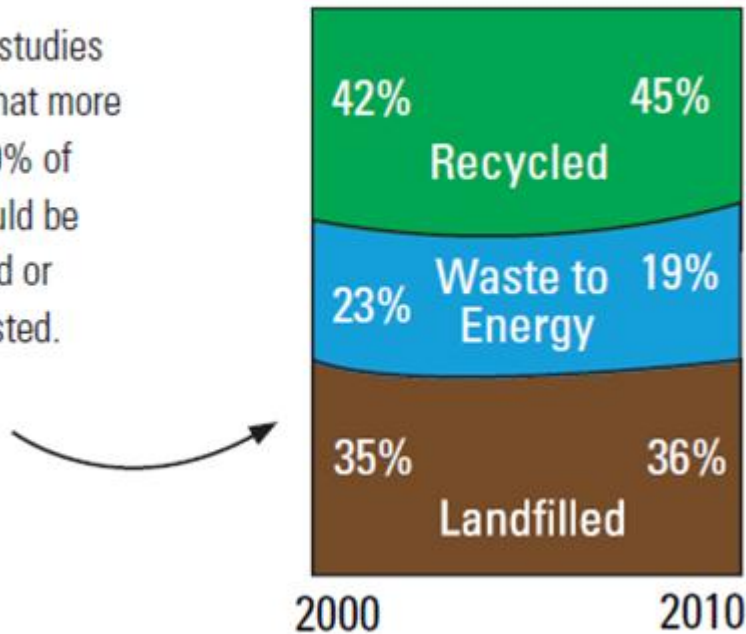


LAND for farming, wildlife and recreation



How do we manage our solid waste?

Waste studies show that more than 70% of this could be recycled or composted.



The recycling rate hasn't changed much since 2000.

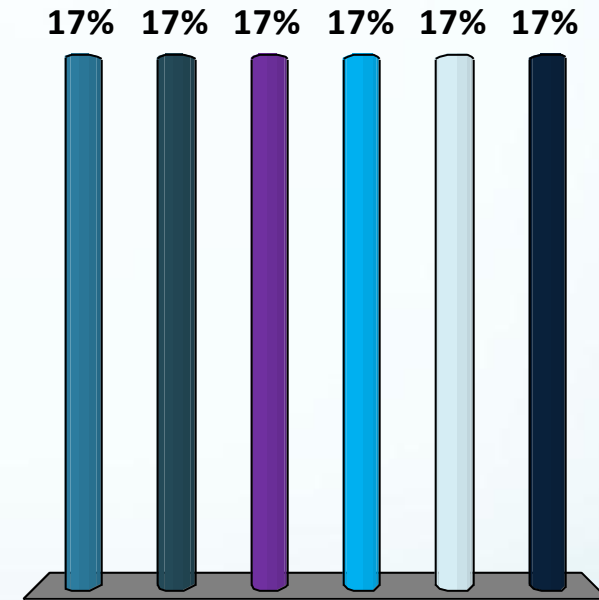
70% of landfilled waste could be recycled or composted.

LAND for farming, wildlife and recreation



5. Which of the following would make you likely to recycle more? (Rank your top three, number one having the most potential.)

- a) More recycling bins on sidewalks and streets
- b) No sorting recyclables – all goes in one bin
- c) Increased fees for garbage pick-up
- d) A deposit-refund system for containers and bottles
- e) Curbside pick-up for compost
- f) We don't need to be recycling



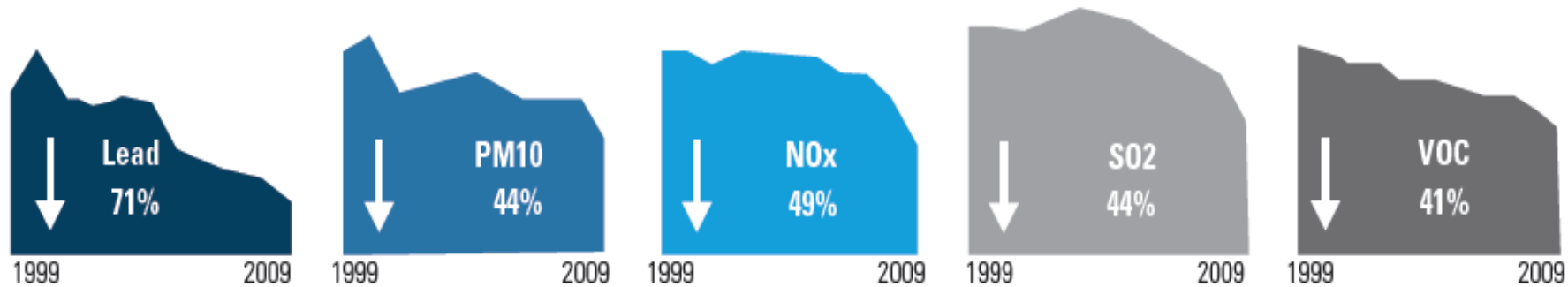
More recycling bins on sidewalks and streets
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A deposit-refund system for containers and bottles
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AIR for people, animals and plants



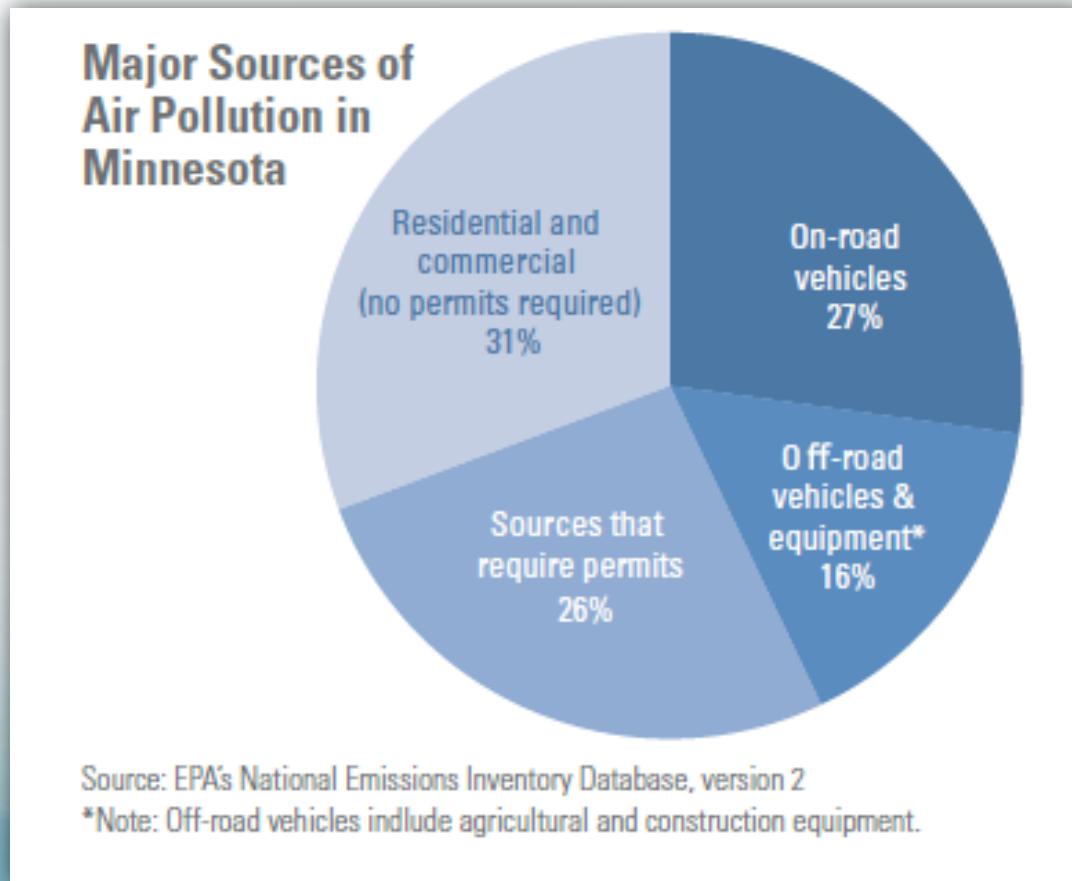
Minnesota's success story: smokestack “point” sources of air pollution are declining.

Point Source Emissions Graph last decade



AIR for people, animals and plants

Our challenge: “nonpoint” air emissions from the vehicles and machines we use and from heating our buildings.



AIR for people, animals and plants

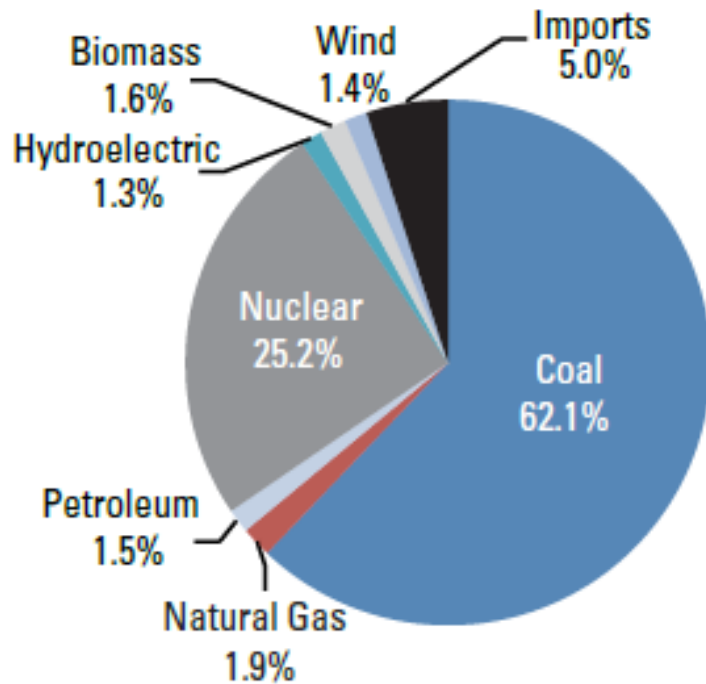


6. Which of the following do you believe will have the most positive impact on air quality in the years to come? (Rank your top 3, where your number 1 ranked choice is the one with the most impact.)
- a) Increased vehicle efficiency
 - b) Increased use of trains and other forms of transit
 - c) More regulations of nonpoint sources (ex: landfills, burning fires, etc.)
 - d) Reductions in home energy usage
 - e) Development/growth in already urbanized areas
 - f) None of these
 - g) I don't know
 - h) Other

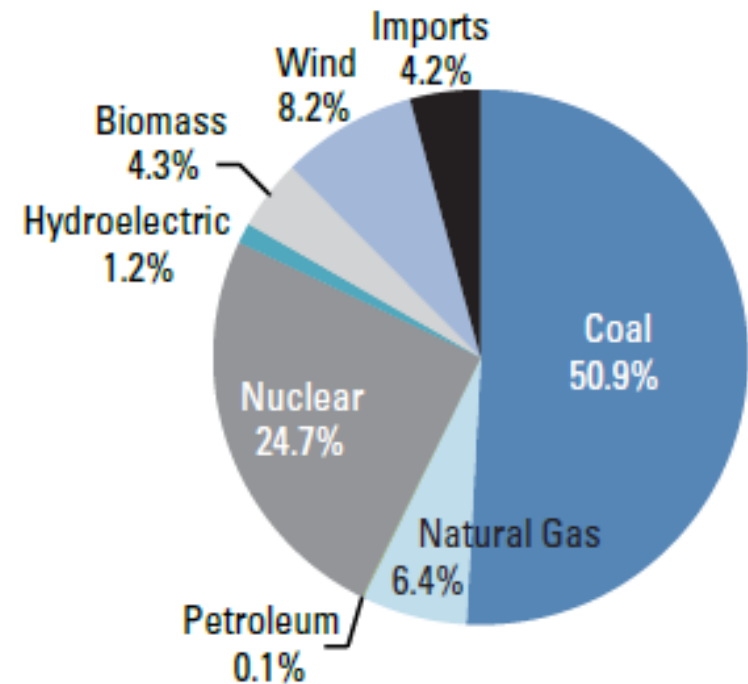
ENERGY for our homes, farms and businesses



Electricity Consumption by Source, 2000



Electricity Consumption by Source, 2010



Source: State Energy Data System, Energy Information Administration, U.S. Dept of Energy.

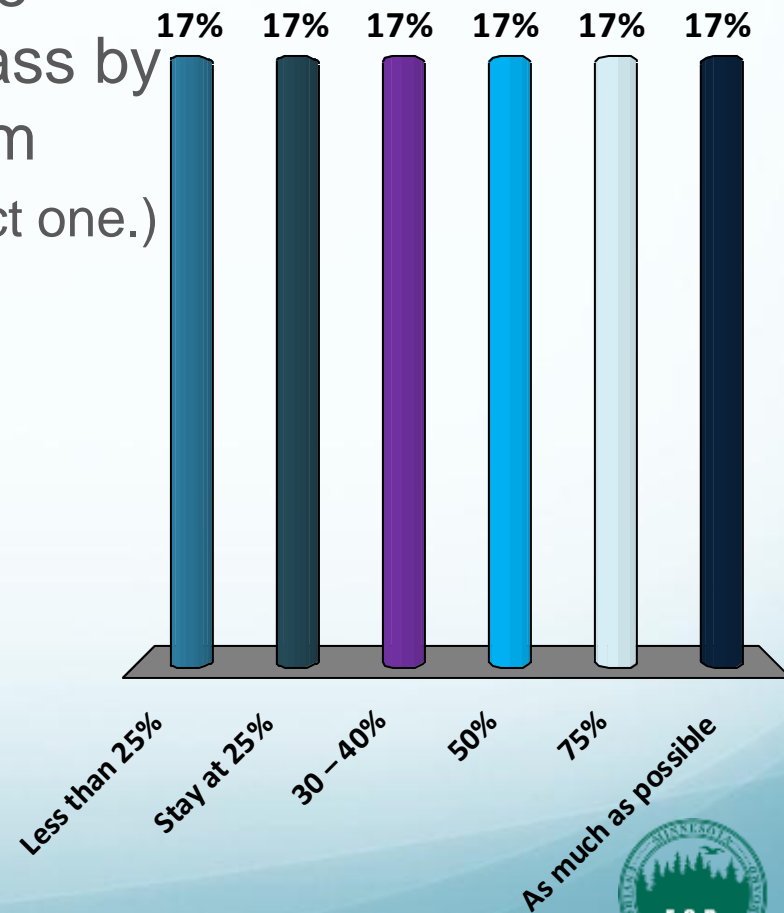


ENERGY for our homes, farms and businesses



7. Minnesota law requires that at least 25% of our electricity come from renewable sources like wind, solar, and biomass by 2025. What percent should be from renewable sources by 2050? (Select one.)

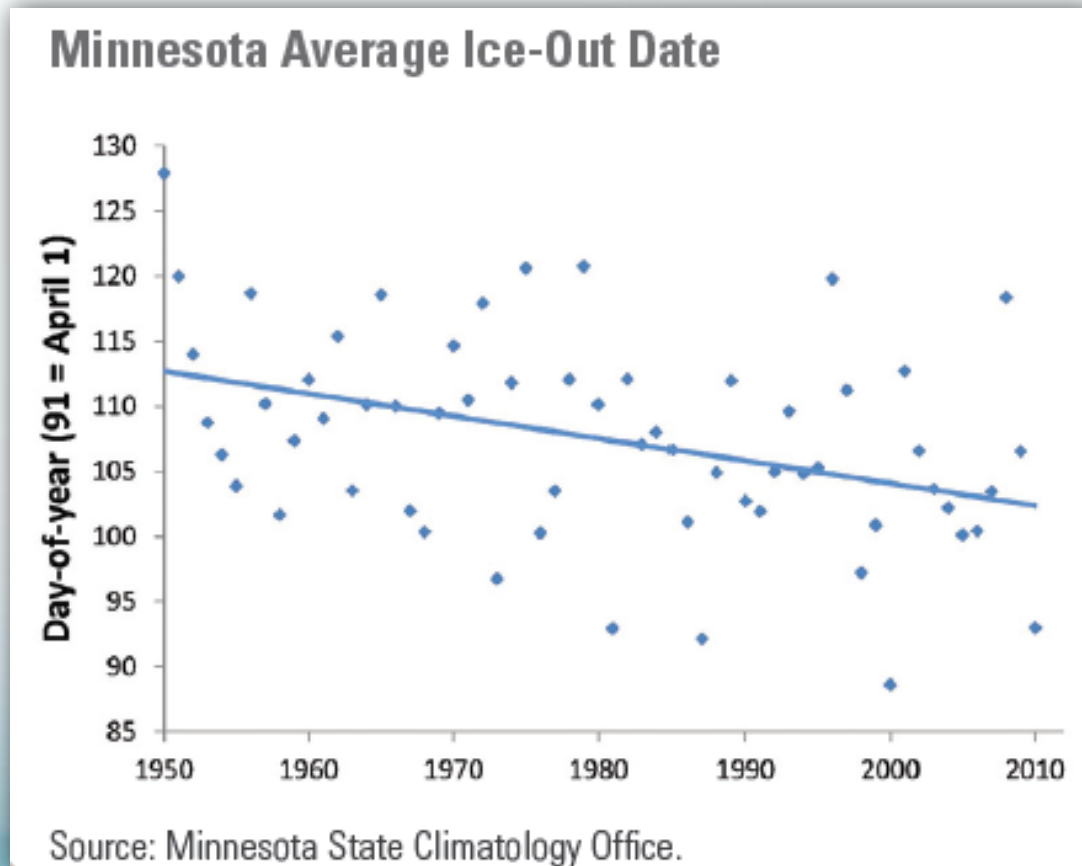
- a) Less than 25%
- b) Stay at 25%
- c) 30 – 40%
- d) 50%
- e) 75%
- f) As much as possible



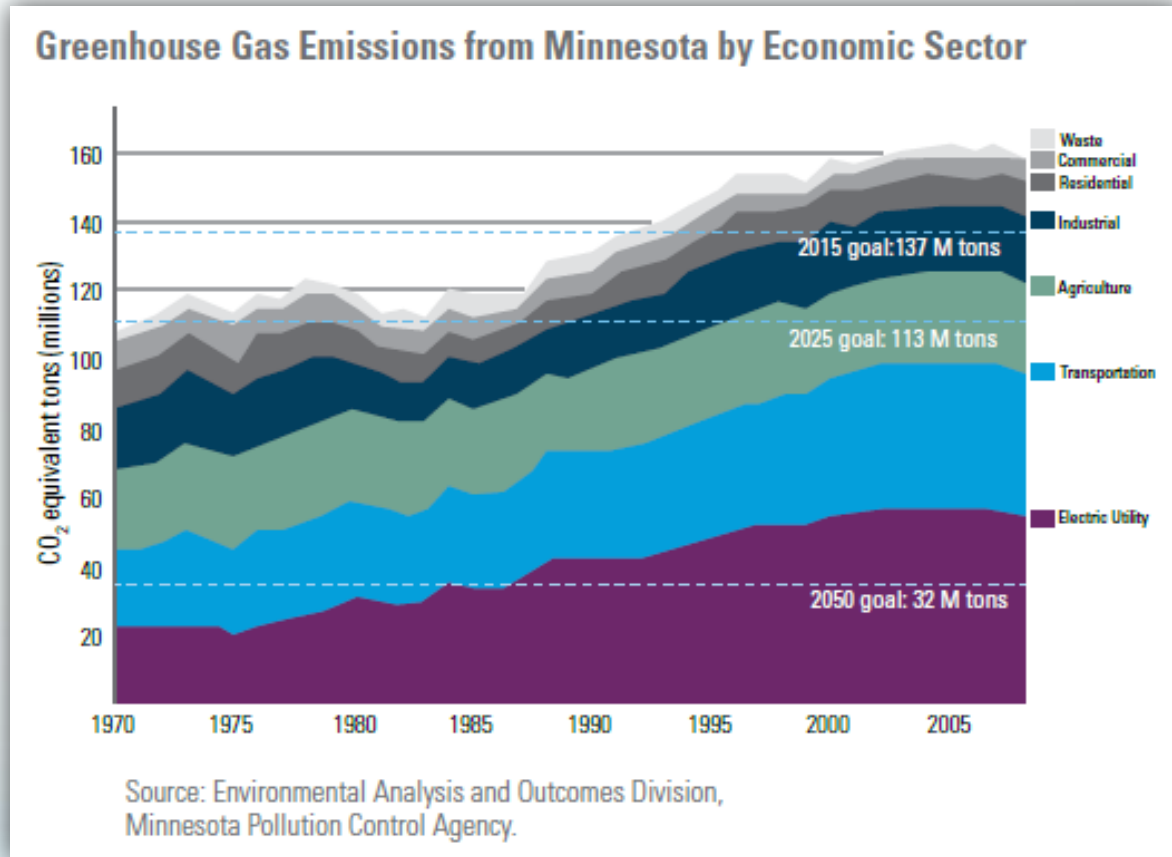
CLIMATE long-term changes in Minnesota weather trends



There are early signs that climate change has had an impact on Minnesota.



CLIMATE long-term changes in Minnesota weather trends



Greenhouse gases keep heat in our atmosphere. Minnesota's state law currently sets goals for reducing greenhouse gas emissions.

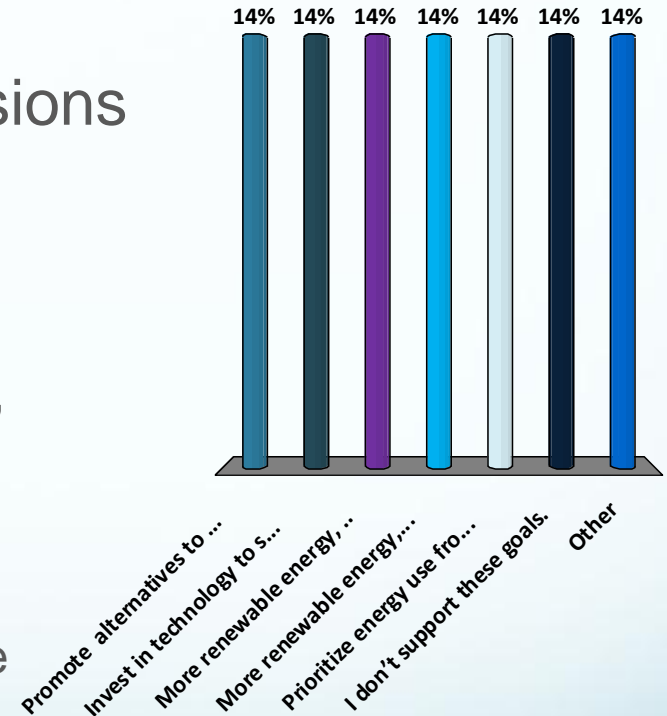


CLIMATE long-term changes in Minnesota weather trends



8. Which of the following statements best represents your feelings about how Minnesota should achieve these emissions goals? (Choose up to three.)

- a) Promote alternatives to driving like buses, trains, walking, biking
- b) Invest in technology to save energy in houses, cars, and buildings
- c) More renewable energy, as long as it's not more expensive
- d) More renewable energy, even if it is more expensive
- e) Prioritize energy use from sources that produce less carbon (e.g. natural gas instead of coal)
- f) I don't support these goals.
- g) Other





Small Group Discussion



For the topics of water, land, air, energy, and climate please answer the following questions:

1. What **concerns** do you have related to quality of life now and in the years to come? (Think in terms of your children and grandchildren.)
2. Given these concerns about the next generation's quality of life, can you envision a **better scenario**? What does your vision for an ideal future quality of life look like?
3. What **actions** do you propose we take (as individual citizens or as a state) to address these issues in the years to come?

