



Pintail duck photo by Peter LaTourette

Climate Change, Wildlife, and Wildlands

Global Warming Wheel Card

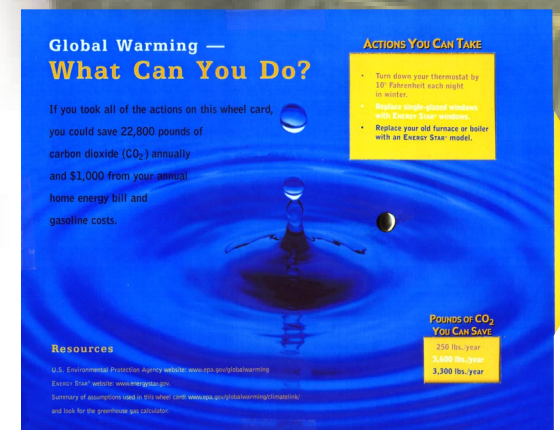
- Cut out the two large circles and the two large rectangular pieces.
- Cut out the two little rectangular windows on each of the large rectangular pieces.
- Put glue on the backs of both circles and put them together to make the "wheel" of the wheel card, making sure that you align them so that the four labels that run along the outside of each circle (Waste Disposal, Home Heating, Electricity Use, and Transportation) line up with the corresponding labels on the other side. The Waste Disposal label on one side should line up with the Waste Disposal label on the other side, and so on.
- Lay the rectangular piece entitled "What Can You Do?" upside-down on the table with the larger of the two cutouts closer to you. If you lift up the edge of the rectangular piece and see the words "Global-Warming—What Can You Do?" right side up, you've done it correctly.
- Put the glued-together wheel on top of the rectangular piece, with the side that has all the questions (such as

"On average, how much does your household spend on electricity each month?") facing up.

- Lay the other rectangular piece entitled "What's Your Score?" on top of the wheel, with the smaller of the two cutouts closer to you.
- Look for the "belly button" on the pasted-together wheel and the two large rectangular pieces. Push a paper fastener ("brad") through the "belly button" to hold all the pieces together.
- Glue the large rectangular pieces in all four corners just enough to hold the rectangles together but allowing the wheel to turn freely.
- If you wish, highlight each line inside the windows in a different color to make it easier to read. If you have access to a color printer, this step will be unnecessary.
- If you are putting the wheel together to use in a demonstration, now you're ready to calculate the greenhouse gas emissions "score" of members of your audience and what they can do to reduce it.



Side 1



Side 2



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Global Warming Wheel Card

Side 1
[outside]

Global Warming —

What's Your Score?

In the United States, a typical household of two people generates approximately 60,000 pounds of carbon dioxide (CO₂) emissions every year from household activities and personal transportation.

EMISSIONS SOURCE

POUNDS OF CO₂
EMITTED PER YEAR



United States
Environmental Protection
Agency

Office of Air and Radiation
Office of Atmospheric
Programs

EPA-430-K-0-007
November 2000

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Global Warming Wheel Card

Side 1
[inside]

Home Heating

On average, how many miles does your household put on your car(s) per week? Pick closest amount.

- 200 miles (10,400 miles/year)
- 400 miles (20,800 miles/year)
- 600 miles (31,200 miles/year)

6,000 lbs./year
12,000 lbs./year
24,000 lbs./year

Transportation

Which of the following scenarios best describes your household's waste disposal practices?

- We don't recycle at all.
- We recycle about half of all recyclable materials (paper, plastics, glass).
- We recycle everything we can.

11,800 lbs./year
23,600 lbs./year
35,400 lbs./year

Waste Disposal

On average, how much does your household spend on electricity each month? Pick closest amount.

- \$40
- \$80
- \$120

1,500 lbs./year
3,900 lbs./year
6,300 lbs./year

Electricity Use

On average, how much does your household spend on natural gas or fuel oil each month? Pick closest amount.

- \$25
- \$50
- \$100

9,800 lbs./year
19,700 lbs./year
29,500 lbs./year

Global Warming — What's Your Score?

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Side 2
[outside]

Global Warming — What Can You Do?

If you took all of the actions on this wheel card, you could save 22,800 pounds of carbon dioxide (CO₂) annually and \$1,000 from your annual home energy bill and gasoline costs.

ACTIONS YOU CAN TAKE



Resources

U.S. Environmental Protection Agency website: www.epa.gov/globalwarming

ENERGY STAR® website: www.energystar.gov

Summary of assumptions used in this wheel card: www.epa.gov/globalwarming/climatelink/
and look for the greenhouse gas calculator.

POUNDS OF CO₂ YOU CAN SAVE



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Global Warming Wheel Card

Side 2
[inside]

