

# what's a carbon sink?

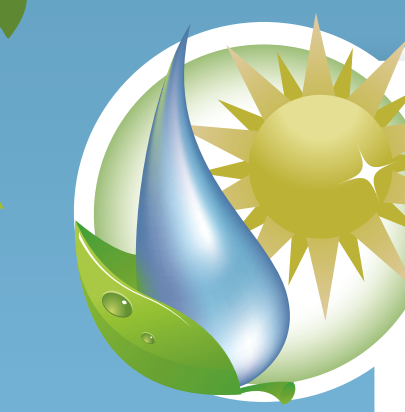
Data from C.M. Gough and others, Bioscience 58(7) 2008

Spanning more than 68 million acres, the forests of the Great Lakes are a huge carbon sink, a natural reservoir that accumulates and stores carbon. By preserving our forests, we can help to reduce excessive amounts of carbon that are released into our atmosphere each year and restore balance to Earth's living systems.



## carbon is life

Carbon is a natural part of all living things. In fact, 20% of our body mass is made up of carbon. Normally, carbon travels between organisms, soil, and the atmosphere in a balanced exchange. When this balance is disrupted—by burning fossil fuels, for example—we end up with too much carbon dioxide in our atmosphere, trapping heat and disrupting our world's climate.



## carbon storage 101

### CARBON IN: PHOTOSYNTHESIS

Plants make their own energy using carbon, water, and sunlight:

**6.2** tons of carbon per acre taken in yearly

### CARBON OUT: ECOSYSTEM RESPIRATION

After taking in gases to power their bodies, both plants and animals release waste gases into the atmosphere:

**5.5** tons of carbon per acre released annually

### CARBON STORED

After the natural exchange between plants, animals and the atmosphere, we end up with

**0.7** tons of carbon stored each year

*That's over 1500 pounds per acre!*

