

Fostering Community Appreciation of Science

SCIENCE IS FUN In the Lab of Shakhashiri

Public sentiment is everything. With public sentiment, nothing can fail; without it nothing can succeed.

>> Abraham Lincoln



Science literacy enlightens and enables people to make informed choices, to be skeptical, and to reject shams, quackery, unproven conjecture, and to avoid being bamboozled into making foolish decisions where matters of science and technology are concerned. Science literacy is for everyone—scientists, artists, humanists, all professionals, the general public, youth and adults alike.

>> Bassam Z. Shakhashiri

GLOBAL WARMING IS UNEQUIVOCAL

■ -35° to -40° F
 ■ -30° to -35°
 ■ -25° to -30°
 ■ -20° to -25°
 ■ -15° to -20°
 ■ -10° to -15°

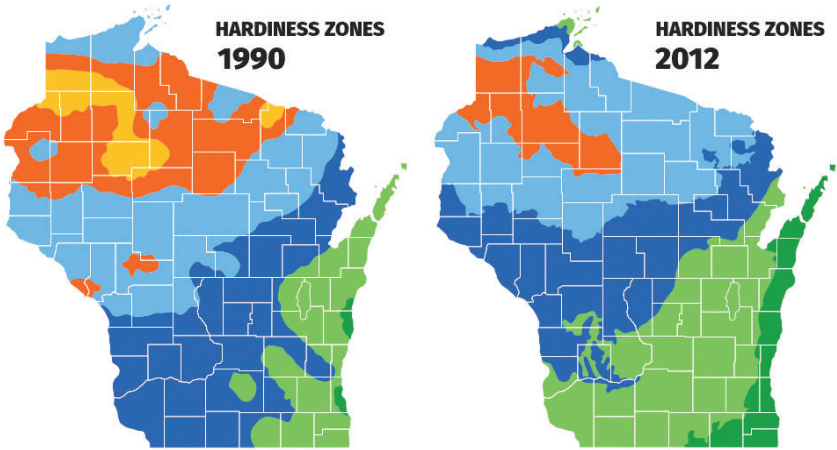
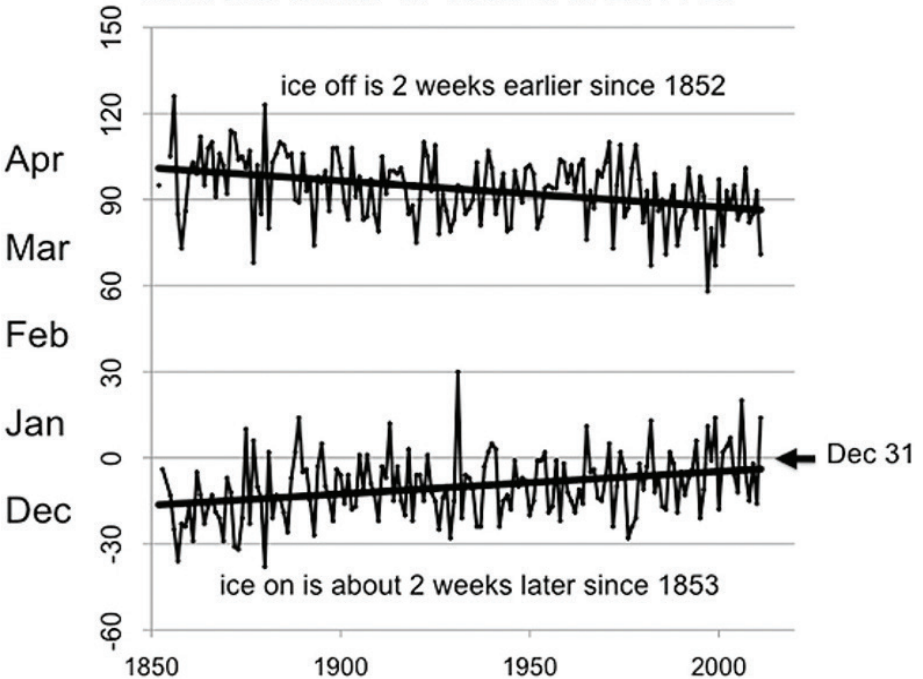


Illustration by Brandon Raygo, The Capital Times / Data Source: U.S. Dept. of Agriculture, PRISM Climate Group, Oregon State University

The zone color key shows the lowest observed winter temperatures in that area.

Ice-and ice-off dates for Lake Mendota from the winter of 1852-3 to 2011-2.



SCIENCE & SOCIETY

We must help sustain Earth and its people in the face of:

- The denial of basic human rights—*especially the right to benefit from scientific and technological advances.*
- Population Growth ◦ Finite Resources ◦ Malnutrition
 - Spreading Disease ◦ Deadly Violence ◦ War
 - Climate Change

Science and society have a social contract that enables great intellectual achievements but comes with mutual expectations of benefiting the human condition and protecting our planet.

In a free and civil society, people must be virtuous as well as skilled. Scientific knowledge, proficiency, and technical skills must be harnessed to ensure responsibility and stewardship.

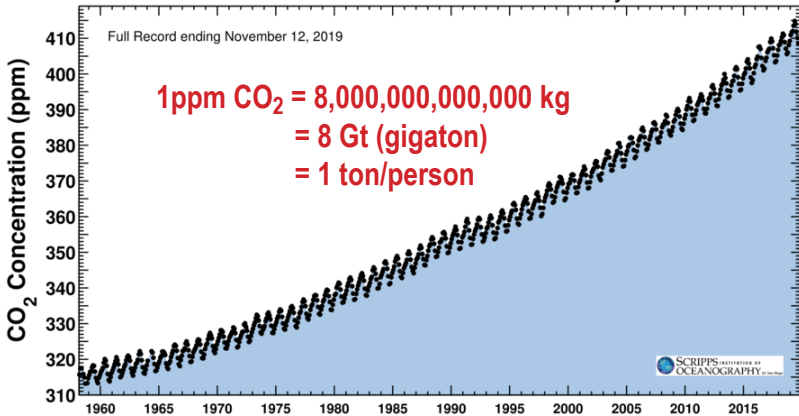
>> Bassam Z. Shakhashiri

THE KEELING CURVE

Latest CO₂ reading: **410.28 ppm**

November 12, 2019

Carbon dioxide concentration at Mauna Loa Observatory



What can you do?

- Increase your scientific knowledge of climate change.
 - Commit to taking responsible action to help mitigate global warming.
 - Initiate and sustain conversations in your research group about global warming.
 - Engage your family, friends, and others in conversations about global warming.
 - Be respectful, trustworthy, and confident in what you say about global warming.
 - Keep in touch with us, in person, and electronically at scifun@chem.wisc.edu
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- Buy less stuff. (Reduce/Reuse/Recycle)
 - Change those light bulbs. (And turn them off.)
 - Use a programmed thermostat.
 - Eat less meat. (Especially beef)
 - Walk, bike, use more public transportation. Fly less.
 - Switch to a car with better fuel economy or an electric vehicle.



IN EVERY ELECTION

Raise your voice...

- Union of Concerned Scientists: ucsusa.org
- Citizens' Climate Lobby: citizensclimatelobby.org
- Skeptical Science: skepticalscience.com
- Project Drawdown: drawdown.org
- ACS Climate Science Toolkit: acs.org/content/acs/en/climatescience.html

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