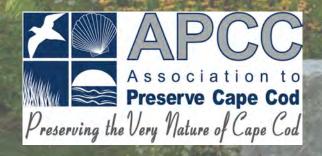
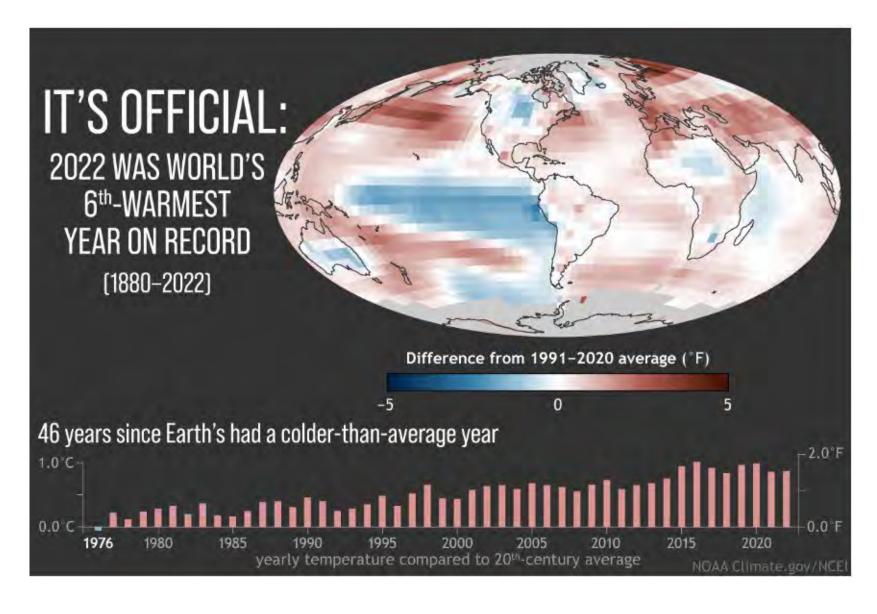


Truro Climate Action Committee
April 20, 2023



Kristin Andres, APCC's Associate Director for Education



Global ocean heat content (OHC) hit a record high in 2022.

In February, extent of Arctic sea ice was third smallest on record.

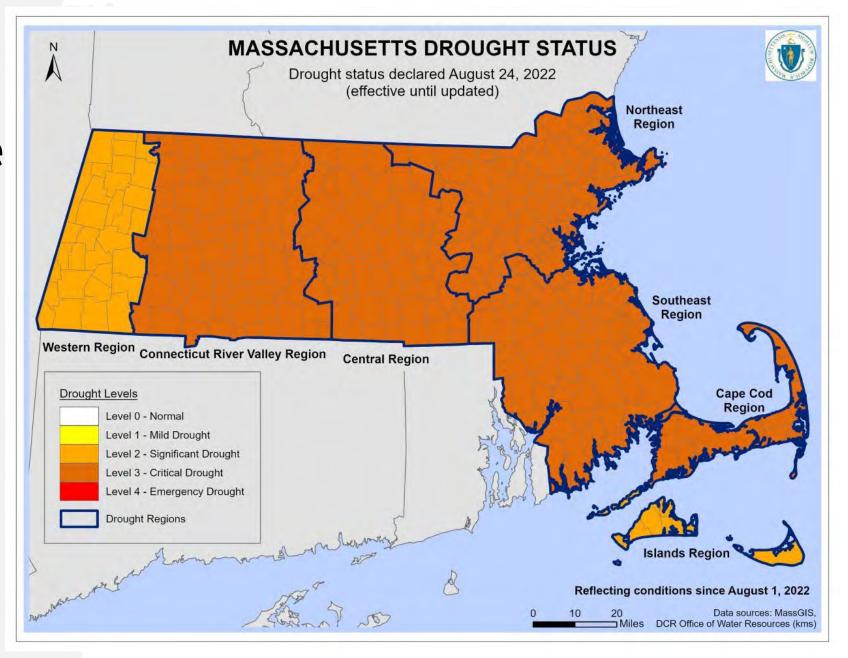
Earth just had its secondwarmest March on record.

Antarctic sea ice coverage for March 2023 ranked second smallest recorded.



Impacts of Climate Change

- Heatwaves
- Drought
- Wildfires







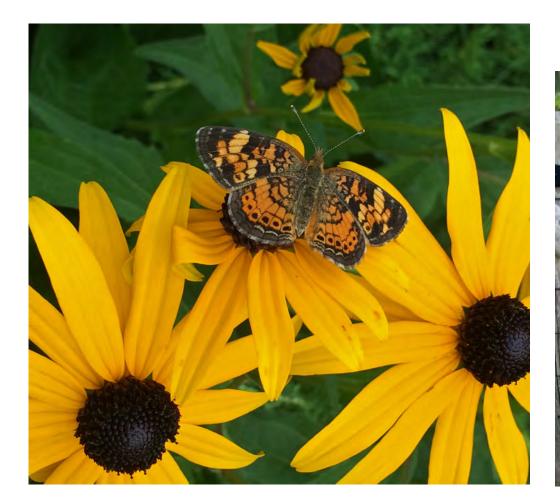
Mitigation, Adaptation & Resiliency

- Mitigate take steps to reduce carbon release into the air
- Adapt make adjustments in behavior, practice and design to deal with changes in our environment to build resiliency.
- Resiliency the ability to bounce back after difficulties



Cumulative Impact of Our Actions

"Every garden matters, every landscape counts."



Grow Native Massachusetts







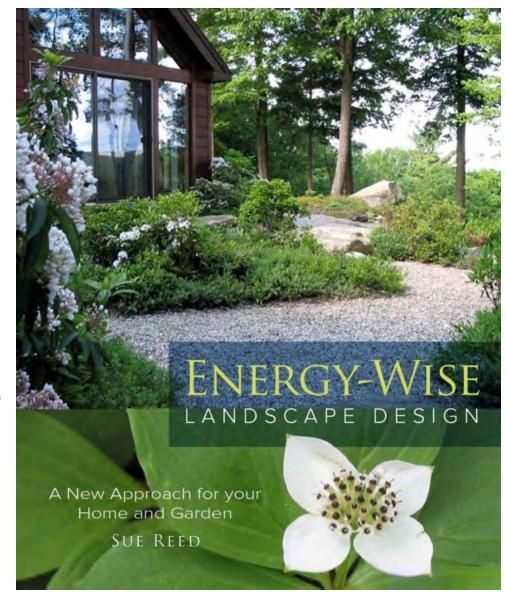
Design Considerations

Plant deciduous trees to the south and west to keep your house cool in the summer and let the sun warm your home in the winter, reducing energy use. (U.S. Department of Energy)

Plant a windbreak to the north and south – leave wild areas.

Plant to shade air conditioners—they'll use less electricity. A unit operating in the shade uses as much as 10% less electricity than the same one operating in the sun. (U.S. Department of Energy)

Plant for the future – anticipate loss of trees to disease, storms, natural plant succession.













40 million acres of lawn in the U.S. - about the size of New England.

Nationwide, landscape irrigation is estimated to account for nearly one-third of all residential water use.

Lawn industry is based on fossil fuels - fertilizers & gas-powered equipment.



Reduce lawn area to what you need.

Think "throw rug" instead of "wall to wall carpeting."

Make it a Cape Cod lawn – It's a thing!

no fertilizers or pesticides, no irrigation, and anything that grows is okay, including clover, moss, violets.

Maintenance Choices





One new gas-powered lawn mower produces as much air pollution emissions in one hour of operation as 11 new cars being driven for one hour. (EPA)

A 4-stroke leaf blower 13x's more carbon emissions than that of a 2011 Ford Raptor pickup, and a 2-stroke leaf blower was 23 x's more.

OR

Green Equipment Movement





Lawn Alternatives

- Wild Strawberry Fragaria virginiana
- Appalachian Barren Strawberry Geum fragarioides
- Pennsylvania Sedge Carex pensylvanica
- Golden Groundsel Packera obovata
- Bearberry Arctostaphylos uva-ursi
- American Ginger Asarum canadense
- · Hay Scented Fern Dennstaedtia punctilobula
- Prairie Dropseed Sporobolus heterolepis
- Purple Lovegrass Eragrostis spectabilis
- Foam Flower Tiarella cordifolia









Pennsylvania Sedge (*Carex pensylvanica*)

Meadow



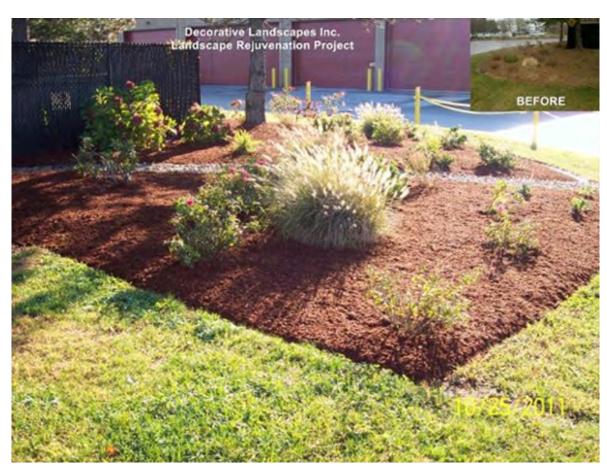
Avoid churning the soil.

Try sheet mulching for conversion of lawns to planted areas.

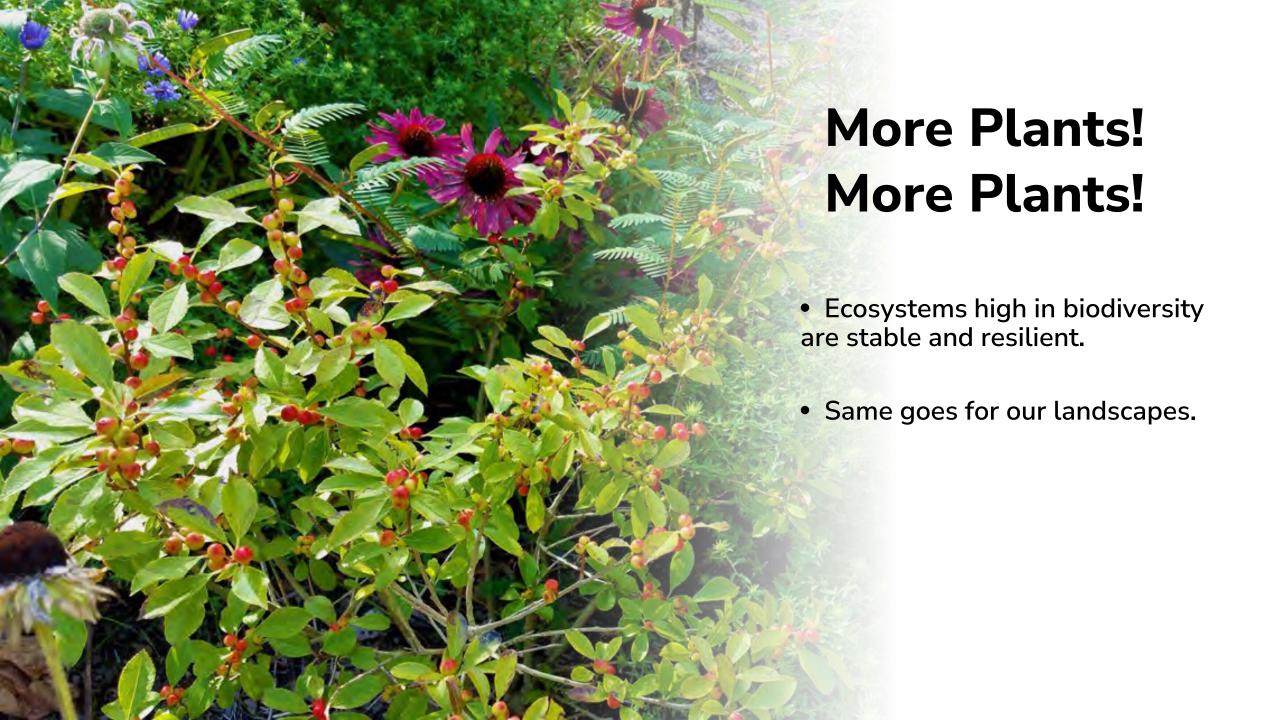




Instead of making wood mulch the star of the landscape, make it green living mulch.

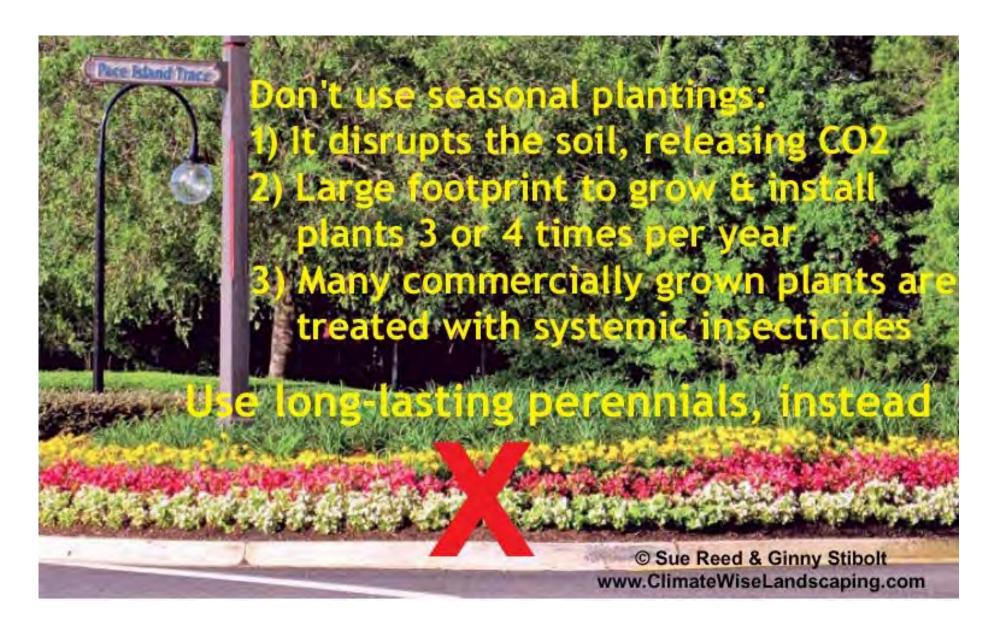








Something to think about...skip the annuals.





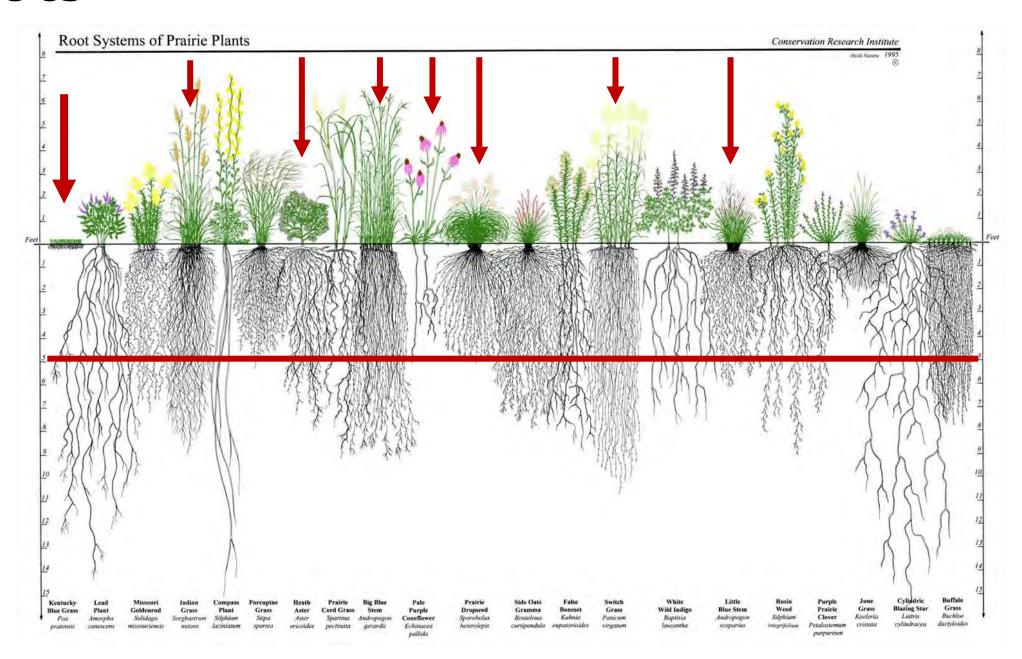




Native Species – the true proven winners

- Well-adapted
- Drought & salt spray tolerant
- Require no soil amendments
- Support local ecology
- Deep-rooted
- Beautiful
- Not fussy
- Provide a "sense of place"

Roots



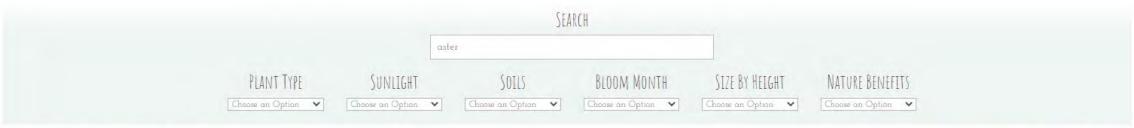






CHOOSE THE PERFECT PLANT

This online tool is designed to help you find the native plants best-suited for specific sites that provide the greatest ecological function and benefit, and that will also complement your Cape Cod landscape design. Using the dropdowns below, you have the ability to find plants based on these six criteria: Plant Type, Sunlight, Soils, Bloom Month, Size, and Nature Benefits. Based on your choices, the results will automatically populate.













Harvest Rain & Conserve Water

- Rain barrel
- Rain barrel water collection system
- Cistern



APCC.org/RainBarrel \$99 incl shipping via FedEx



Reduce - Recycle - Re-purpose



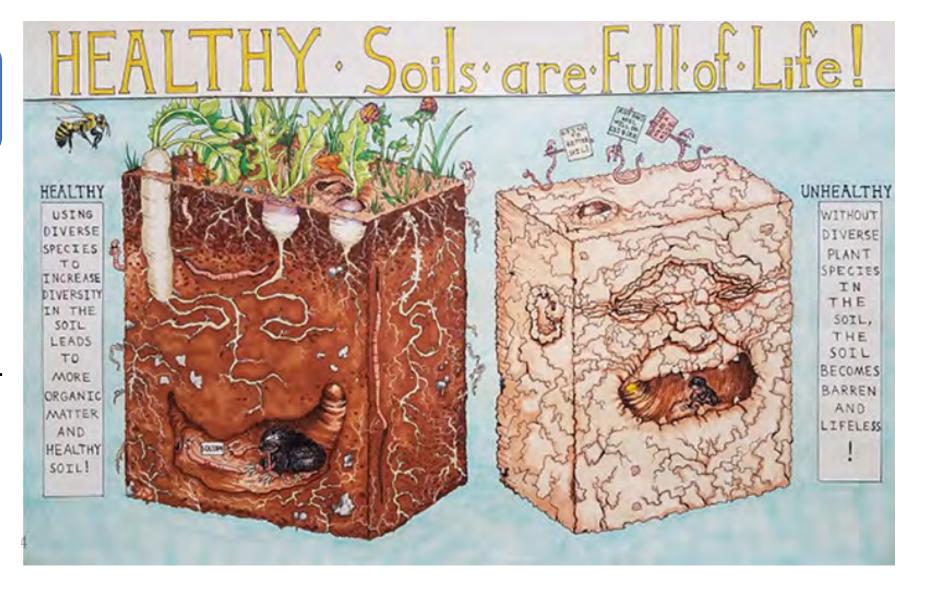


Perennial vegetables ~ they keep on giving



Grow your soil

- Compost
- Don't leave soil exposed - protect the soil and soil life with fall cover crops or chopped straw or seaweed
- Don't rototill

























A Rain Garden

- A shallow depression, planted with deep-rooted native plants
- Captures stormwater
- Right plant, right place



Summary: Climate-Wise Landscape Choices

- Plant native species of TREES, preserve trees.
- Minimize lawn area make it a Cape Cod lawn.
- Choose native species, plant for diversity.
- Leave the leaves, the stems and the seeds.
- Conserve water.
- Recycle, repurpose, reuse.
- Compost.
- Minimize soil disturbance, leave wild areas.
- Manage stormwater on the property.
- Work with nature, not against it.

