

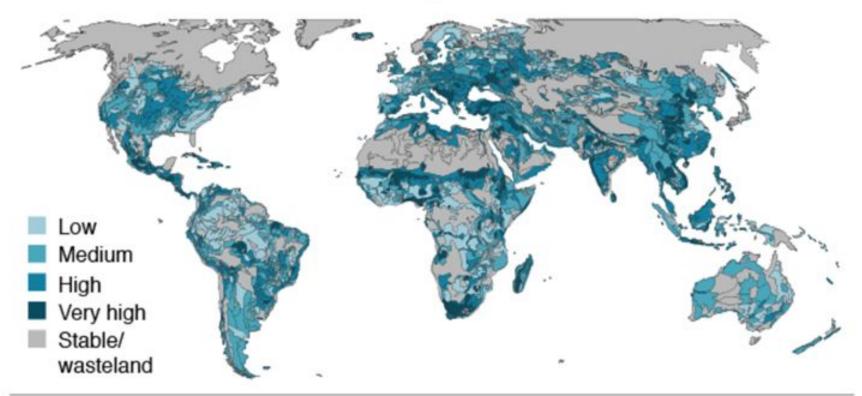


# Native Landscaped Gardens

Patty Iverson

#### **Human Induced Soil Degradation**

## Areas worst affected by soil erosion





# Carbon Sequestration

"Agriculture and the food system are key to global climate change responses."

IPCC Special Report on Land 2019

# ATMOSPHERE 750 Billion tons of C BIOSPHERE 550 Billion tons of C KISS GROUND PEDOSPHERE (SOIL) 2300 Billion tons of C

# SIX PRINCIPLES

OF REGENERATIVE AGRICULTURE









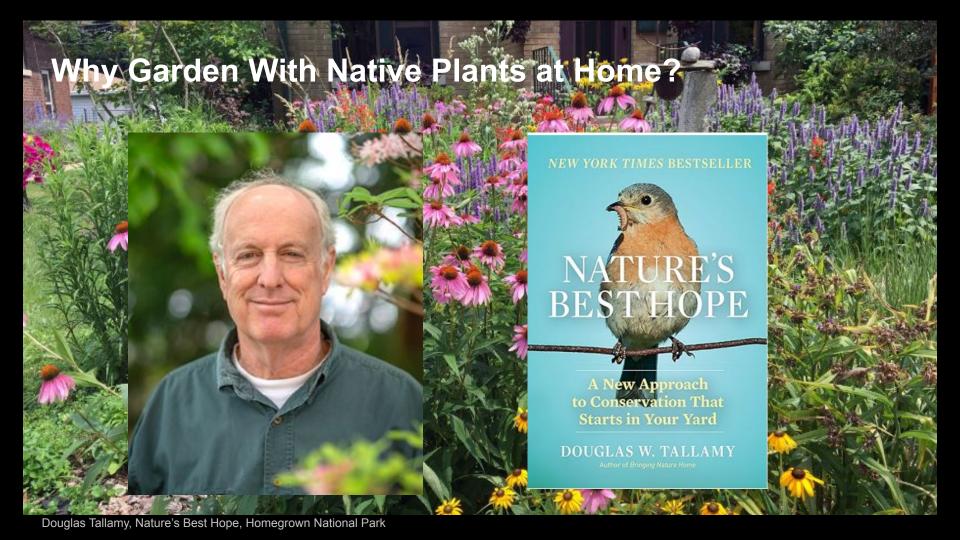




Courtesy of Kiss the Ground

# Regenerative Agriculture: A Climate Change and Food System Solution









 Native plants do not require chemical fertilizer or pesticides as they are less prone to disease and pests, and can save you money in the long-term, while helping the environment and creating a healthier place for yourself, your family, and your community.





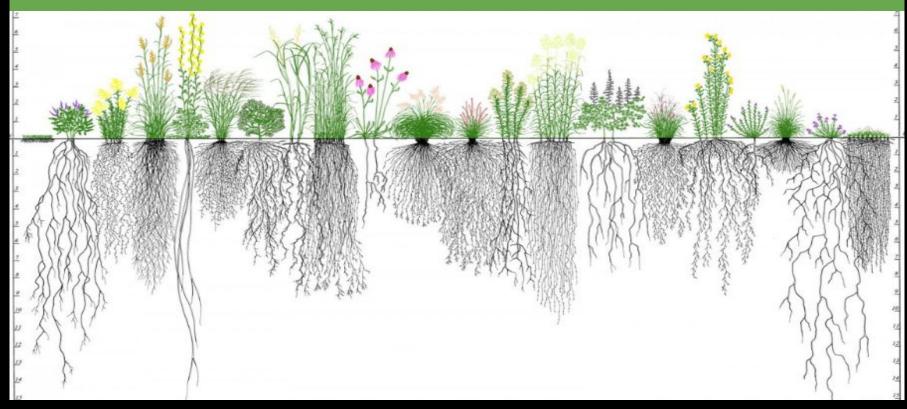
### Why Garden With Native Plants at Home?

- **KEYSTONE SPECIES** are plants that are essential to the life of many species and are unique to local food webs within ecoregions.
  - Examples: Oaks, goldenrods, sunflowers, Black-eyed Susans, Joe Pye-Weed,
    Swamp Rose, Milkweeds.



#### Why Garden With Native Plants at Home?

 Once established, native plants develop extensive root systems, 5-14 feet deep, that absorb water & nutrients and mitigate flooding and drought.



# Why Garden With Native Plants at Home?

 Native plants provide nature corridors enabling species to move between naturalized areas. Most native bees have a range of about 750 meters, so the goal is to connect properties that have established pollinator-friendly habitat and food sources for bees, butterflies, hummingbirds and other pollinating insects and wildlife.





## The Challenge With Native Gardens and HOA's

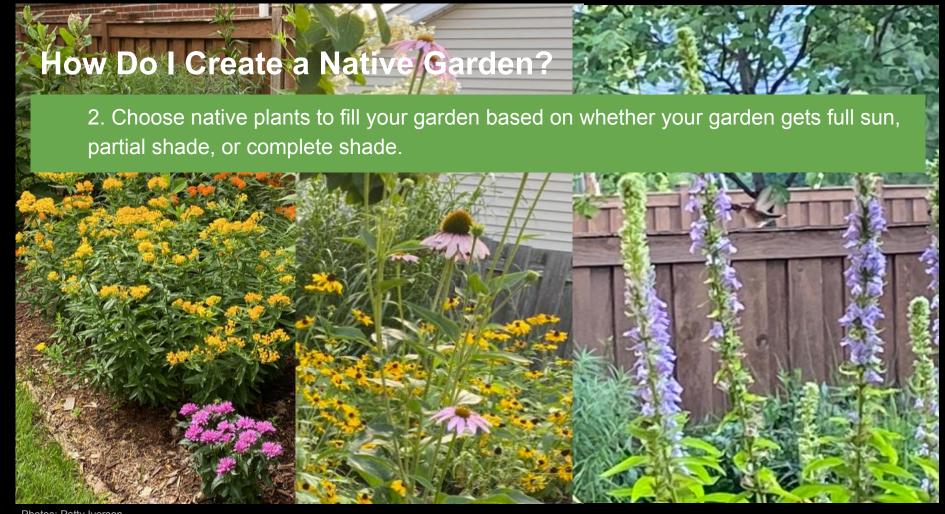
 Traditionally, HOA communities enforce conventional landscape aesthetics - namely turf grass and other nonnative plants that do not support biodiversity and require chemical fertilizers and pesticides.



- Make a landscape plan
- Phase in changes over time
- Become a board member
- Connect with other projects
- Enlist experts to visit & weigh in
- Know the land characteristics
- Any Master Naturalists/Gardeners
- Make room beloved exotics









## Water Conservation: follow your water

It's easy to keep rainwater on your property so you can use it or let it soak into the ground by redirecting downspouts to gardens and plant sedges to sequester water.



Photo: WSA Stormwater Solutions



# Water Conservation: follow your water

• Install native plants, especially where water collects or flows (many have deep roots and thus soak up tremendous amounts of rainwater). Some species work especially well in these locations.





Photo: Patty Iverson

#### Eco-friendly lawns and chemical use

"The positive effect of soil carbon sequestration on the climate footprint of intensively managed lawns was found to be negated by greenhouse gas emissions from management operations such as mowing, irrigation, and fertilization...The short uniform lawn through its monoculture and intensively managed lawnscapes has dislodged the majority of native zonal plant communities in urban environments." Tidaker et al (2017)

#### "So...

- Reduce the size of your lawn
- Cutback on lawn chemicals
- Mow and water for healthy grass
- Aerate and add a thin layer of compost
- Treat problem areas, not the entire lawn
- Add bluebells or clover to deepen roots



## The American Lawn



Graphic: Gene Cass, Proprietor GCGraphics, Gardening With Native Plants, FB

# Will you create a native garden to help restore soil health, sequester carbon, and heal the Earth?



