# Gardening For a Better Planet

Home Landscaping as Habitat



### In this talk...

- Why changing how we garden matters
- What is a native plant?
- ♦ Right plant, right place
- Best practices for gardening like an ecosystem

### Who are we gardening for?

- Old thinking: our gardens are for our enjoyment
- New thinking: our gardens are where we show care for our community, human and otherwise

### Who are we gardening for?

- ♦ 270 different species of bees (plus the nonnative honeybee)
- ♦ 771 different species of moths and butterflies
- ♦ 292 different species of birds

### What is a native plant?

## Why does planting natives matter?

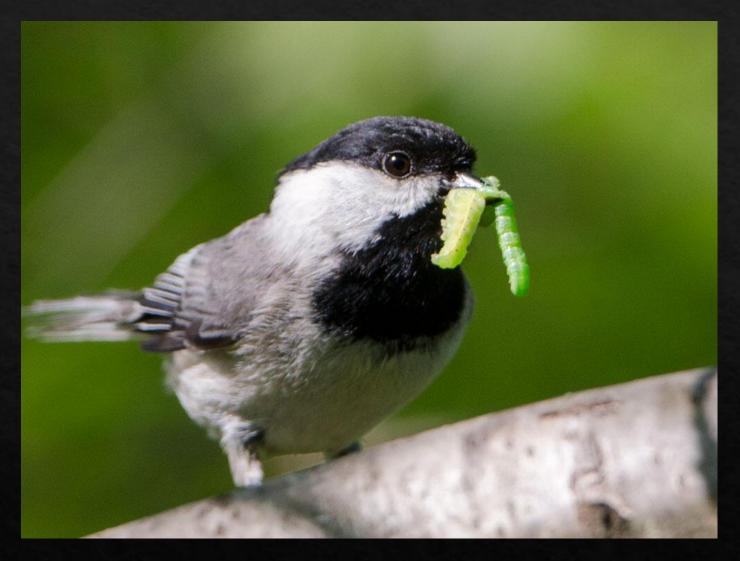
Native plants have evolved relationships with pollinators and other organisms over thousands of years



**USFWS** 

## Why does planting natives matter?

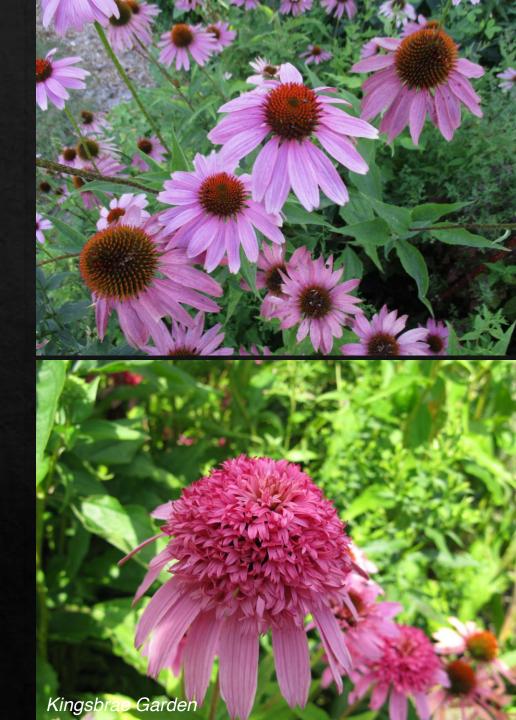
- ♦ Native plants → Insects → Birds, etc.
  - Many species of moths and butterflies are very host specific
  - Most baby birds are fed insects



Doug Tallamy/Audubon.org

## Why does planting natives matter?

- Nativars: cultivated versions of native plants
  - Significant changes to leaf color, flower may limit pollinator use
  - Grown from cuttings, genetically identical



## Right plant, right place

- Native plants are in the right place!
- Matching a plant's needs to site conditions is key
- Planting younger = better adaptability

## Native plants for sunny areas

Eastern red columbine (Aquilegia canadensis):

loved by hummingbirds, blooms in May, likes dry soil, will self-seed readily (and easy to plant by seed!)



## Native plants for sunny areas

#### Butterflyweed (Asclepias tuberosa):

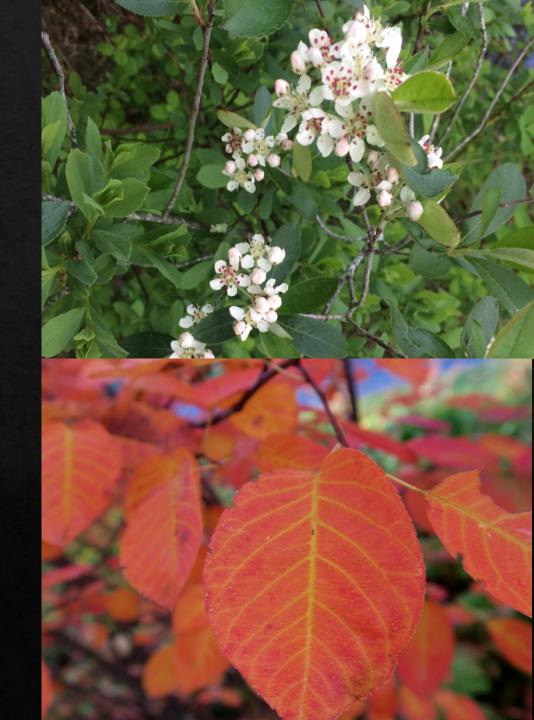
host plant for monarchs, dry soils (clay soil version available), blooms July-August



## Native plants for sunny areas

### Black chokeberry (*Aronia melanocarpa*):

white flowers in May, birds eat the berries in summer, lovely fall foliage, tolerant of range of soil types



Wild geranium (Geranium maculatum):

spreads to form nice groundcovers, foliage looks nice after blooming, May-June



#### Golden Alexanders (Zizia aurea):

food for Black Swallowtail butterflies, late spring blooms last a while, can handle heavy clay soils



New England aster (Aster novaeangliae):

late season nectar source for butterflies, medium to moist soils, plant something else around base



Serviceberry/shadbush (Amelanchier canadensis):

Early bloomer, can reach 20', prefers moist soils, fruits are edible and loved by birds, great fall color



## Native plants for shady areas

#### Foamflower (Tiarella cordifolia):

great for shade gardens, foliage looks nice after blooming, needs rich soil



## Native plants for shady areas

Wild blue phlox (Phlox divaricata):

Blooms May-June, very adaptable, attracts hummingbirds



## Native plants for shady areas

#### Witherod (Viburnum cassinoides):

native viburnums are critically important for migrating birds, good fall foliage, resistant to VLB

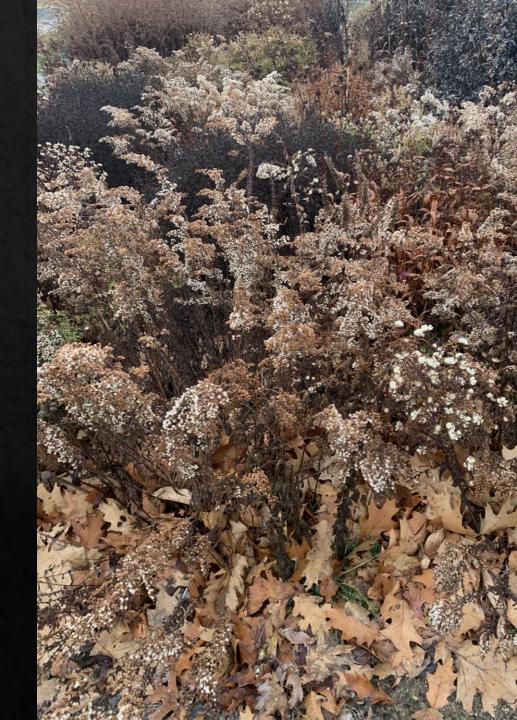


### Best practices: spring clean up

- Spring clean up only when it is consistently over 50 degrees during the daytime
  - ♦ Cut stems to 8-24"
  - ♦ Chop and drop

## Best practices: fall clean up

- ♦ Fall clean up
  - **⋄** Leave dead plants standing
  - Seed heads for the birds, stems/leaf litter for nesting insects
  - **The Winter interest**





#### **WINTER**

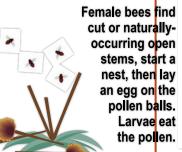
Leave dead flower stalks in-tact over the winter.

### **How to Create Habitat for Stem-nesting Bees**

Image credit: Heather Holms

#### **SPRING**

Cut back dead flower stalks leaving stem stubble of varying height, 8 to 24 inches, to provide nest cavities.



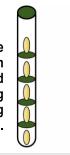


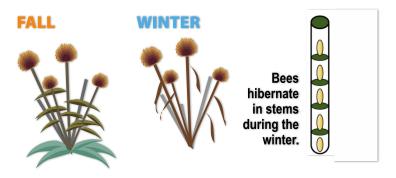
#### SUMMER

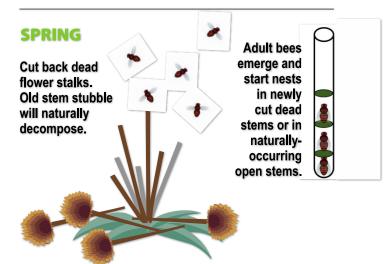
New growth of the perennial hides the stem stubble.



Bee larvae develop in cut dead stems during the growing season.







### Best practices: mulch

- Use groundcover plantings as "living mulch"
  - Allow groundcovers to grow together over time
  - **Ex. Wild strawberry, wild ginger, sedges, ferns, etc.**

### Best practices: water

- Many native plants are very drought tolerant
- ♦ Water regularly during 1<sup>st</sup> growing season, as needed in 2<sup>nd</sup> season
- Deep, slow watering is preferable (drip hoses, water in the morning)

### Best practices: fertilizer

- ♦ Right plant, right place
- ♦ Rethink "good soil"
- ♦ Native plants are adapted to Maine soils (sandy, lean, etc.)
- Chop and drop: returns nutrients to soil slowly

### Lawns in the US

- ♦ Largest single crop, takes up 40-50 million acres (40% residential)
- Most irrigated crop in the US (60 million acre-feet per year)
- ♦ 1 hour of mowing = driving 100 miles

### Best practices: lawn care

- ♦ How much do we really need? "Green carpet"
- ♦ Aerating and dethatching > fertilizers
- ♦ Mow to 3.5" inches or higher
- Leave clippings in place
- Allow for summer dormancy

## Best practices: lawn care

- Lawn alternatives:
  - ♦ "Low mow" grasses
  - Pennsylvania sedge (part shade)



Embrace a new aesthetic



## Got more questions?

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#### Additional resources

- ♦ Native Plant Trust (formerly NEWFS)
- ♦ Ecological Landscape Alliance
- Coastal ME Botanical Gardens (Certificate in Native Plants & Ecological Horticulture)
- ♦ Homegrown National Park (Doug Tallamy)
- ♦ Maine Native Plant Finder (Audubon)