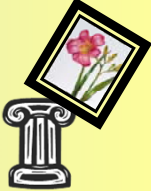


Ditch the Daylilies

Native Flowers and Grasses for Sunny Areas



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Agenda


- * A Bit about Native Plants
- * Plants for Sunny, Dry Areas
- * Plants for Sunny, Moist Areas



- ❖ Full sun ≥ 6 hours
- ❖ Part sun = 3 to 6 hours






- ❖ Dry = water does not remain after rain
- ❖ Moist = soil is almost always damp
- ❖ Wet = soils is almost always saturated



What is a Native Plant?

- * Found in any given geographic area prior to human intervention
- * In U.S.: two major waves of introduction of alien plants: European (17th and 18th centuries) and Asian (20th century)
- * About 34% of plant species in Pennsylvania are now non-native



What's Native Here?

- * Found in Piedmont Region prior to European contact
- * Make sure you get the native species (use botanical name)
- * When is a cultivar or hybrid no longer "native"?
 - * When it no longer has the beneficial characteristics of the species
- * Use local stock when available








What Isn't?










Why Native Plants?

- * Ecosystem benefits
 - * Greater symbiosis
 - * Greater wildlife value
- * Maintenance benefits
 - * Better adapted to local conditions
 - * Need less care (fertilizer, pest control, water, etc.)
- * Alien plants are source of most noxious weeds, invasive plants, and noxious plant diseases/pests

Create Plant Communities

- * "Living soil"
- * Biodiversity
- * Weed control
- * Flowers, grasses, sedges, and ferns








❖ Dry meadow ❖ Wet meadow

Some thoughts before we begin

- * Class focus is on herbaceous, perennial plants with good wildlife value, suitability for residential property, and my experience
- * Most plants tolerate some range of conditions but are most successful in specific conditions
- * The more we keep plants in their preferred conditions, the less maintenance they require
- * Class does not cover woody plants, vines, groundcovers, or shade species (see other classes)

Resources

- * Native plant and invasive plant classes on www.marcmradell.com
- * Links and Recommended Reading pages on www.marcmradell.com
- * USDA Plants Database with fact sheets & links
- * USFWS *Native Plants for Wildlife Habitat and Conservation Landscaping, Chesapeake Bay Watershed* (P is for Piedmont)
- * Lady Bird Johnson Wildflower Center Native Plant Information Network
- * iConservePA native plant fact sheets







Plants for Dry Meadows

- * Flowers and grasses
- * Alphabetical order by botanical name



White Snakeroot

Ageratina altissima v. altissima (Eupatorium rugosum)





- ❖ 2 - 3' tall
- ❖ Blooms July - October
- ❖ Dry to moist soil
- ❖ Full sun to part shade
- ❖ Attracts butterflies, songbirds, pollinators
- ❖ Good "filler" plant

Milkweed

Asclepias






<p>Butterflyweed, <i>A. tuberosa</i></p> <ul style="list-style-type: none"> ❖ 1 - 3' tall ❖ Blooms May - July, reblooms ❖ Dry to moist soil ❖ Full sun to part sun ❖ Attracts butterflies, pollinators ❖ Host plant for Monarch butterfly 	<p>Common milkweed, <i>A. syriaca</i></p> <ul style="list-style-type: none"> ❖ 1 - 3' tall ❖ Blooms May - July, reblooms ❖ Dry to moist soil ❖ Full sun to part sun ❖ Attracts butterflies, pollinators ❖ Host plant for Monarch butterfly
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Tickseed *Coreopsis*






- ❖ Threadleaf Coreopsis, *C. verticillata*
- ❖ 1.5 – 3.5' tall
- ❖ Blooms June – October
- ❖ Dry to moist soil
- ❖ Full sun to part sun
- ❖ Attracts butterflies
- ❖ Compact, neat
- ❖ Good in containers

- ❖ Tall Coreopsis, *C. tripteris*
- ❖ 3.5 – 10' tall
- ❖ Blooms May – September
- ❖ Dry to moist soil
- ❖ Full sun to part sun
- ❖ Attracts butterflies, songbirds

Green-stemmed Joe-Pye Weed *Eupatorium purpureum*






- ❖ 2 – 5' high
- ❖ Blooms July – October
- ❖ Dry to moist soil
- ❖ Full sun to part sun
- ❖ Attracts butterflies, pollinators, songbirds
- ❖ Good substitute for butterfly bush
- ❖ Sturdy plant with attractive foliage

Oxeye Sunflower *Heliopsis helianthoides*






- ❖ 2 – 5' high
- ❖ Blooms June – September
- ❖ Dry to moist soil
- ❖ Full sun to part sun
- ❖ Attracts butterflies, pollinators, songbirds, hummingbirds
- ❖ Double-flowered and wine-stemmed varieties

Spiked Blazingstar *Liatris spicata*





- ❖ 2 – 4' high
- ❖ Blooms July – August
- ❖ Dry to moist soil
- ❖ Full sun to part sun
- ❖ Attracts butterflies, pollinators, songbirds
- ❖ Adds color and verticality





Wild Bergamot *Monarda bradburiana (M. fistulosa)*





- ❖ 2 – 4' high
- ❖ Blooms June – September
- ❖ Dry to moist soil
- ❖ Full sun to part sun
- ❖ Very attractive to butterflies, pollinators, humming birds
- ❖ Minty smell

Sundrops *Oenothera*

- ❖ Common Evening Primrose
O. biennis
- ❖ 2 – 5' high
- ❖ Blooms June – Oct
- ❖ Dry soil
- ❖ Full sun to part sun
- ❖ Pollinators, hummingbirds

- ❖ Narrow-Leaved Sundrops
O. fruticosa
- ❖ 1 – 3' high
- ❖ Blooms May – Sept
- ❖ Dry to moist soil
- ❖ Full sun to part sun
- ❖ Pollinators, hummingbirds, songbirds

- ❖ Small Sundrops
O. perennis
- ❖ 1 – 3' high
- ❖ Blooms May – August
- ❖ Dry to moist soil
- ❖ Full sun
- ❖ Pollinators, hummingbirds, songbirds

Foxglove Beardtongue

Penstemon digitalis



- ❖ 2 - 5' high
- ❖ Blooms June - August
- ❖ Dry to moist soil
- ❖ Full sun to part sun
- ❖ Attractive to pollinators, humming birds
- ❖ Neat foliage
- ❖ Semi-evergreen basal leaves

Hoary Mountain Mint

Pycnanthemum incanum



- ❖ 3' high
- ❖ Blooms July - September
- ❖ Dry soil
- ❖ Full sun to part shade
- ❖ Very attractive to pollinators, butterflies
- ❖ One of the top nectar producers
- ❖ Smells like eucalyptus
- ❖ Spreads enthusiastically

Yellow Coneflowers

Rudbeckia



<p>Orange Coneflower <i>R. fulgida</i></p> <ul style="list-style-type: none"> ❖ 1.5 - 3.5' high ❖ Blooms July - October ❖ Dry to moist soil ❖ Full sun to part sun ❖ Pollinators, butterflies, songbirds ❖ Assertive spreader 	<p>Black-Eyed Susan <i>R. hirta</i></p> <ul style="list-style-type: none"> ❖ 1 - 3.5' high ❖ Blooms June - October ❖ Dry to moist soil ❖ Full sun to part sun ❖ Pollinators, butterflies, songbirds ❖ Biennial ❖ Caterpillar host plant ❖ Many cultivars 	<p>Three-Label Coneflower <i>R. triloba</i></p> <ul style="list-style-type: none"> ❖ 1.5 - 4.5' high ❖ Blooms July - September ❖ Dry to moist soil ❖ Full sun to part sun ❖ Pollinators, butterflies, songbirds
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Cup Plant

Silphium perfoliatum



- ❖ 3 - 8' high
- ❖ Blooms July - October
- ❖ Dry to moist soil
- ❖ Full to part sun
- ❖ Attracts butterflies, pollinators, songbirds
- ❖ Very dramatic. Persistent stems for winter interest.
- ❖ Enthusiastic self-seeder

Asters

Symphotrichum



<p>White Heath Aster <i>S. ericoides</i></p> <ul style="list-style-type: none"> ❖ 1 - 6.5' high ❖ Blooms June - Nov ❖ Dry to moist soil ❖ Full sun to part sun ❖ Pollinators, butterflies 	<p>Smooth Blue Aster <i>S. laeve var. laeve</i></p> <ul style="list-style-type: none"> ❖ 1 - 5' high ❖ Blooms August - October ❖ Dry soil ❖ Full sun to part sun ❖ Pollinators, songbirds, butterflies ❖ Host for Pearl Crescent Butterfly caterpillar 	<p>New England Aster <i>R. triloba</i></p> <ul style="list-style-type: none"> ❖ 1 - 6' high ❖ Blooms August - October ❖ Dry to moist soil ❖ Full sun to part sun ❖ Pollinators, butterflies, songbirds ❖ Caterpillar host plant ❖ Many cultivars
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Grasses



<p>Big Bluestem <i>Andropogon gerardii</i></p> <ul style="list-style-type: none"> ❖ 2 - 6.5' high ❖ Blooms June - Sept ❖ Dry to wet soil ❖ Full sun to part sun ❖ Cover, seeds, nesting material for birds, mammals ❖ Host plant for skippers 	<p>Little Bluestem <i>Schizachyrium scoparium</i></p> <ul style="list-style-type: none"> ❖ 1.5 - 4' high ❖ Blooms August - October ❖ Dry soil ❖ Full sun ❖ Cover, seeds, nesting material for birds, mammals ❖ Host plant for skippers 	<p>Indiangrass <i>Sorghastrum nutans</i></p> <ul style="list-style-type: none"> ❖ 2.5 - 8' high ❖ Blooms August - September ❖ Dry to moist soil ❖ Full sun ❖ Cover, seeds, nesting material for birds, mammals ❖ Host plant for skippers
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Some Other Plants for Dry Meadows

- * Field pussytoes, *Antennaria neglecta*
- * Partridge Pea, *Chamaecrista fasciculata*
- * Panicked Trefoil, *Desmodium paniculatum*
- * Robin's Plantain, *Erigeron pulchellus*
- * Round-head Bush Clover, *Lespedeza capitata*
- * Sundial Lupine, *Lupinus perennis*
- * Canada Toadflax, *Nuttallanthus canadensis*
- * Goldenrod, *Solidago* ssp.
- * Poverty Grass, *Danthonia spicata*
- * Wild Rye, *Elymus* ssp.

Plants for Wet Meadows

- * Flowers, grasses, sedges, and ferns
- * Alphabetical order by botanical name
- * Don't forget plants for dry meadows that tolerate moist soils



Swamp Milkweed

Asclepias incarnata





- ❖ 4-6' high
- ❖ Blooms May – July
- ❖ Moist to wet soil
- ❖ Full sun to part sun
- ❖ Very attractive to pollinators, butterflies, hummingbirds
- ❖ Host plant for Monarch Butterfly caterpillars

White Turtlehead

Chelone glabra





- ❖ 1.5 – 6.5' high
- ❖ Blooms July – October
- ❖ Moist to wet soil
- ❖ Full sun to part sun
- ❖ Attracts to pollinators, butterflies, hummingbirds
- ❖ Host plant for Baltimore Checkerspot Butterfly caterpillar

Joe-Pye Weed

Eupatorium





<p>Joe-Pye Weed <i>E. fistulosum</i></p> <ul style="list-style-type: none"> ❖ 2 – 10' high ❖ Blooms July – October ❖ Dry to wet soil ❖ Full sun to part sun 	<p>Spotted Joe-Pye Weed <i>E. maculatum</i></p> <ul style="list-style-type: none"> ❖ 2 – 6.5' high ❖ Blooms June – September ❖ Moist soil ❖ Full sun to part sun 	<p>Common Boneset <i>E. perfoliatum</i></p> <ul style="list-style-type: none"> ❖ 1 – 5' high ❖ Blooms July – October ❖ Moist to wet soil ❖ Full sun to full shade
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- ❖ Attract butterflies, pollinators, songbirds
- ❖ Good substitutes for butterfly bush
- ❖ Sturdy plants with attractive foliage
- ❖ Some smaller cultivars

Closed Gentian

Gentiana clausa




- ❖ 1 – 3.5' high
- ❖ Blooms August to October
- ❖ Moist to wet soil
- ❖ Part sun
- ❖ Favorite of bumblebees

Common Sneezeweed
Helenium autumnale



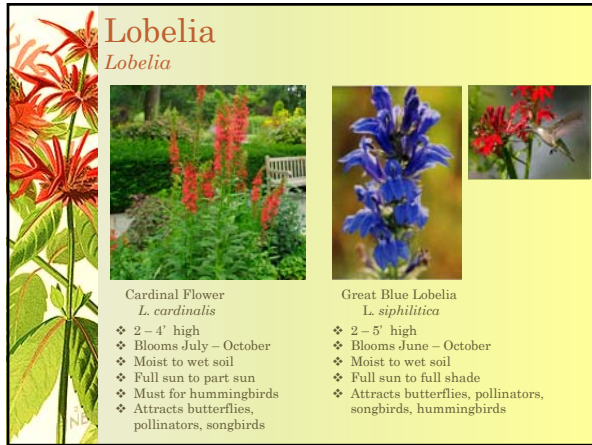
- ❖ 1.5 – 6' high
- ❖ Blooms July to November
- ❖ Moist soil
- ❖ Full sun to full shade
- ❖ Attracts butterflies and pollinators
- ❖ Interesting cultivars

Canada Lily
Lilium canadense, superbum



- ❖ 1.5 – 6' high
- ❖ Blooms June – August
- ❖ Moist to wet soil
- ❖ Full to part sun
- ❖ Attracts hummingbirds
- ❖ Gorgeous

Lobelia
Lobelia



Cardinal Flower
L. cardinalis

- ❖ 2 – 4' high
- ❖ Blooms July – October
- ❖ Moist to wet soil
- ❖ Full sun to part sun
- ❖ Must for hummingbirds
- ❖ Attracts butterflies, pollinators, songbirds

Great Blue Lobelia
L. siphilitica

- ❖ 2 – 5' high
- ❖ Blooms June – October
- ❖ Moist to wet soil
- ❖ Full sun to full shade
- ❖ Attracts butterflies, pollinators, songbirds, hummingbirds

Beebalm
Monarda didyma



- ❖ 2 – 5' high
- ❖ Blooms July – September
- ❖ Moist to wet soil
- ❖ Full sun to part sun
- ❖ Great for hummingbirds
- ❖ Attracts butterflies, pollinators

Phlox
Phlox



Meadow Phlox
P. maculata

- ❖ 1 – 3' high
- ❖ Blooms May – September
- ❖ Moist to wet soil
- ❖ Full sun to full shade
- ❖ Attracts butterflies

Summer/Garden Phlox
P. paniculata

- ❖ 1.5 – 6' high
- ❖ Blooms July – October
- ❖ Moist to soil
- ❖ Full to part sun
- ❖ Attracts butterflies, pollinators
- ❖ Many cultivars

Cutleaf Coneflower
Rudebeckia laciniata




- ❖ 2 – 10' high
- ❖ Blooms May – September
- ❖ Moist to wet soil
- ❖ Full to part sun
- ❖ Attracts butterflies, pollinators, songbirds
- ❖ One of top nectar producers



Tall Meadow Rue

Thalictrum pubescens (polygamum)




- ❖ 2 – 10' high
- ❖ Blooms June – August
- ❖ Moist to wet soil
- ❖ Full sun to full shade
- ❖ Attracts butterflies, pollinators, songbirds



Blue Vervain

Verbena hastata




- ❖ 2 – 5' high
- ❖ Blooms June – October
- ❖ Moist to wet soil
- ❖ Full sun to part sun
- ❖ Attracts butterflies, pollinators, songbirds, waterfowl, small mammals
- ❖ A top nectar producer



New York Ironweed

Vernonia noveboracensis




- ❖ 3.5 – 8' high
- ❖ Blooms August – October
- ❖ Moist to wet soil
- ❖ Full sun to part sun
- ❖ Attracts butterflies, pollinators
- ❖ Shorter cultivars available



Ferns




Sensitive Fern
Onoclea sensibilis

Cinnamon Fern
Osmunda cinnamomea

- ❖ 1 – 3.5' high
- ❖ Moist to wet soil
- ❖ Full sun to full shade
- ❖ Attracts songbirds, small mammals

- ❖ 2 – 5' high
- ❖ Moist to wet soil
- ❖ Full sun to full shade
- ❖ Attracts songbirds, small mammals



Grasses and Sedges

- * Bluestem, *Andropogon gerardii*, *A. virginicus*
- * Tussock Sedge, *Carex stricta*
- * Riverbank Wild Rye, *Elymus riparius*
- * Rice Cutgrass, *Leersia oryzoides*
- * Switchgrass, *Panicum virgatum*
- * Gamma grass, *Tripsacum dactyloides*



Some Other Flowers for Wet Meadows

- * Marsh Marigold, *Caltha palustris*
- * White Aster, *Doellingeria umbellata* var. *umbellata* (*Aster umbellatus*)
- * Monkeyflower, *Mimulus ringens*
- * Golden Ragwort, *Packera aurea* (*Senecio aureus*)
- * Rose Pink, *Sabatia angularis*
- * Hyssop Skullcap, *Scutellaria integrifolia*
- * Eastern Blue-Eyed Grass, *Sisyrinchium atlanticum*
- * Rough-Leaved Goldenrod, *Solidago rugosa*
- * Nodding Ladies' Tresses, *Spiranthes cernua*
- * Hedge Nettle, *Stachys tenuifolia* (*hispida*)
- * Violets, *Viola conspersa*, *V. striata*



The End 

- * Think “plant community”
 - * Mix flowers, grasses, sedges, and ferns
- * Feed the caterpillars and other insects to fuel the food chain
- * Every little bit helps
- * “Thanks from all your friends!”

