



Gardening for Butterflies in Kentucky

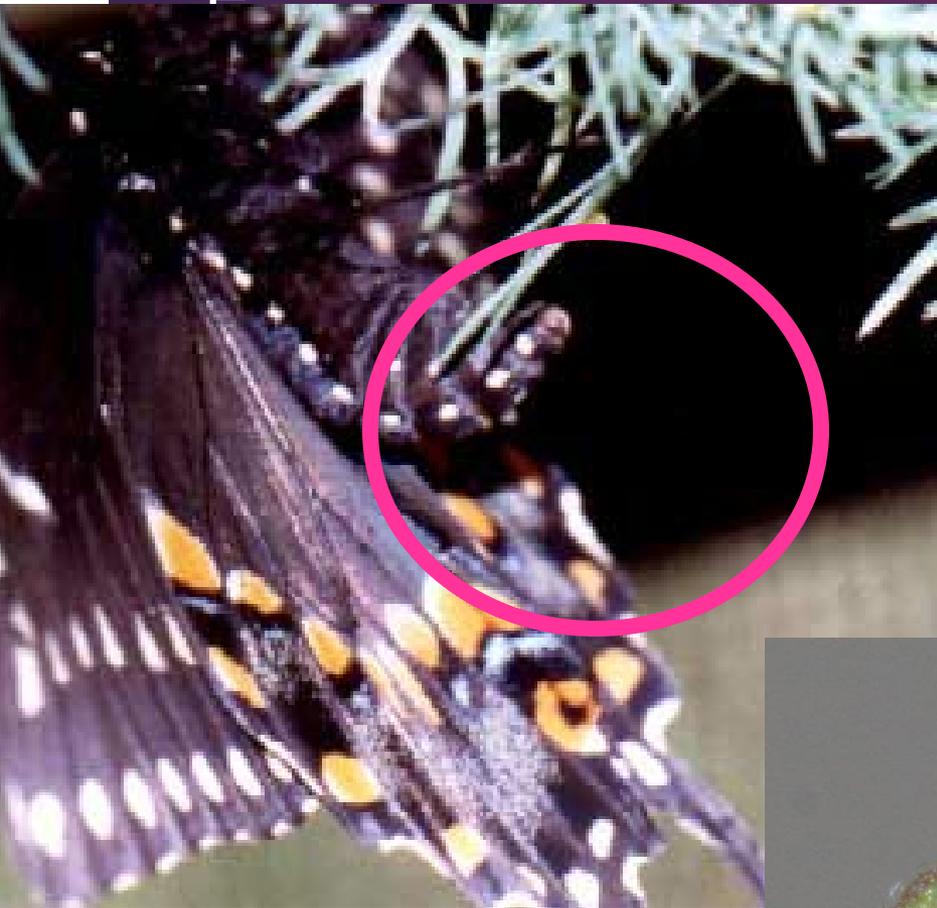
PRESENTED BY:

AMY ALDENDERFER

COUNTY EXTENSION AGENT FOR HORTICULTURE



Life Cycle of a Butterfly



Hatching





©David L. Wagner and Valerie Giles
Twin-spotted Sphinx



©David L. Wagner and Valerie Giles
Silver-spotted Skipper



©David L. Wagner and Valerie Giles
First 3 instars
Spicebush Swallowtail



©Bob Wilson
Last 2 instars



© David L. Wagner and Valerie Giles
Yellow-based Tussock Moth



©David L. Wagner and Valerie Giles
Woolly Bear



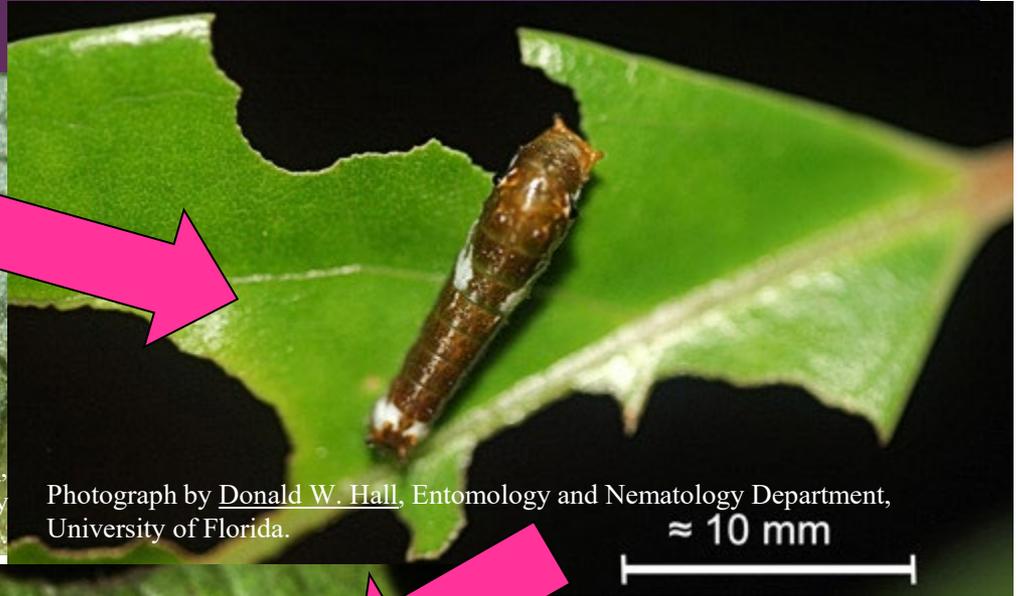
©David L. Wagner and Valerie Giles
Saddleback Caterpillar



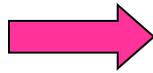
Feeding



Molting



Chrysalis Pupating (Resting Stage)

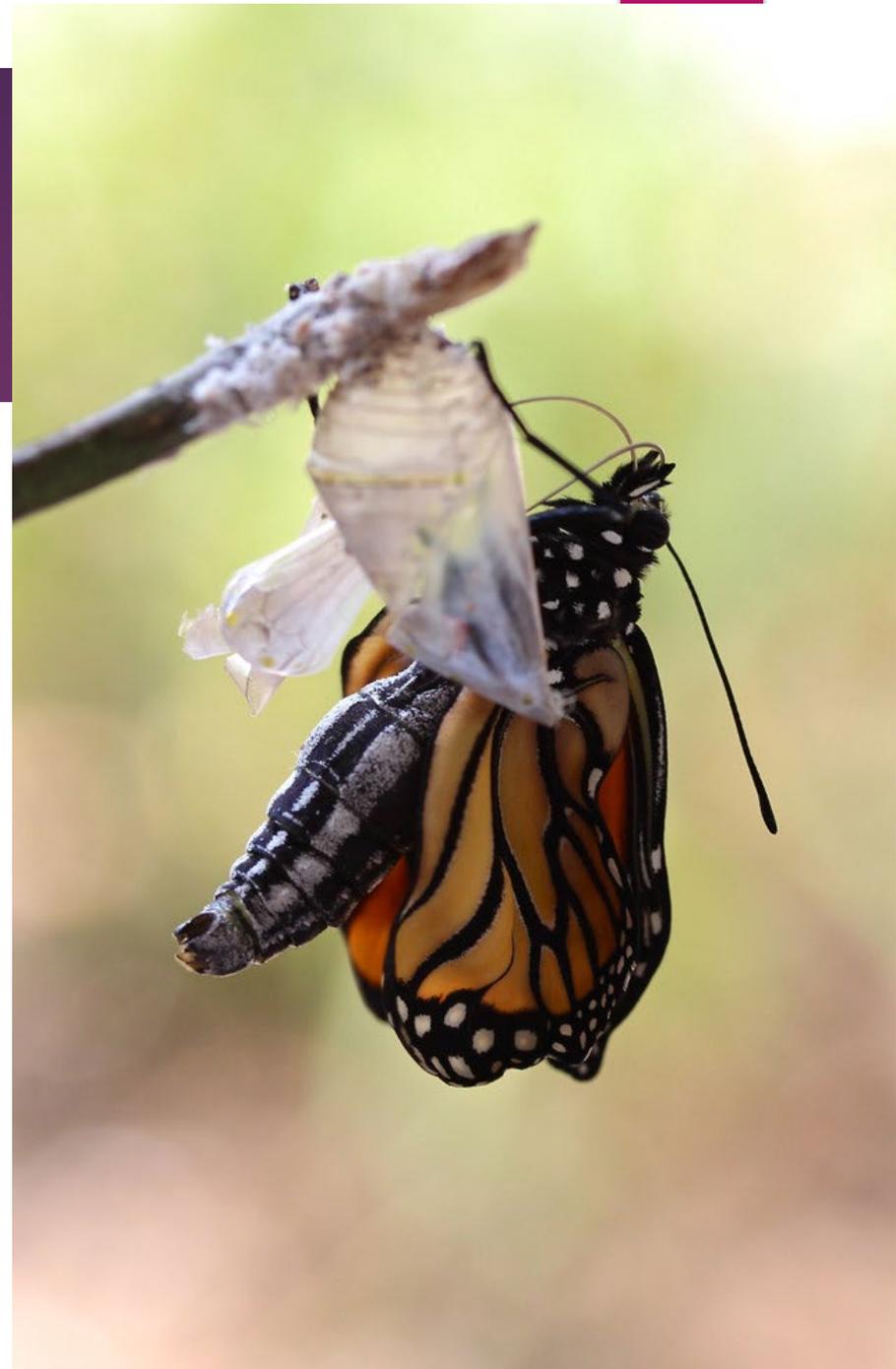


Chrysalis



Photographs by Donald W. Hall,
Entomology and Nematology
Department,
University of Florida.

Emergence



Mating



Landscaping Principles

- ▶ Minimize lawn
- ▶ Plant densely for greatest food and cover value
- ▶ Use feeders and nest boxes to supplement natural food and cover
- ▶ Use native plant communities as your landscape models
- ▶ Strive for vegetational diversity





Flowers All Season



Avoid Modern Hybrids



Salt Licks



March 2012



Reduce Pesticides



Include Larval Host Plants

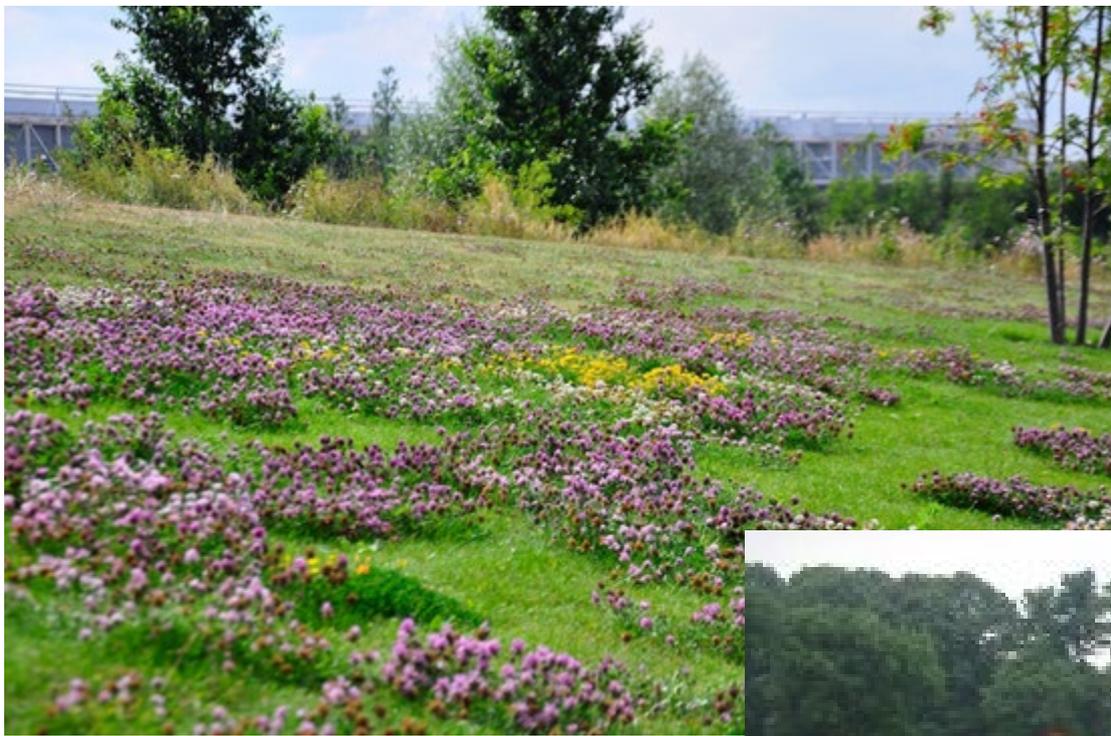


<https://entomology.ca.uky.edu/ef006>



Turn your Lawn into a Meadow





Spice Up the Lawn





Other Food Sources





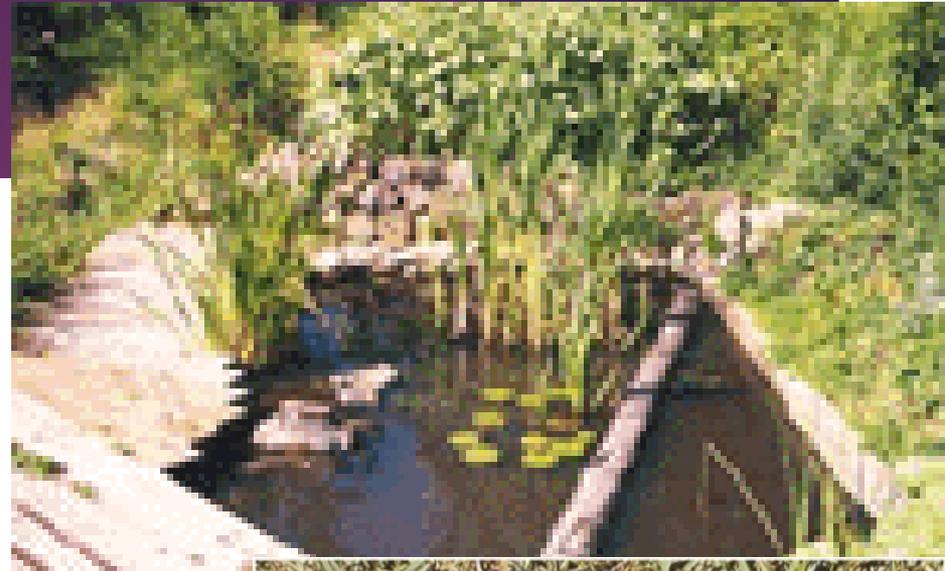
Cover

- ▶ Plants
- ▶ Natural Cavities
- ▶ Artificial Nesting Boxes



Water

- ▶ Natural waterways
- ▶ Baths
- ▶ Ponds



Butterfly Garden Plan

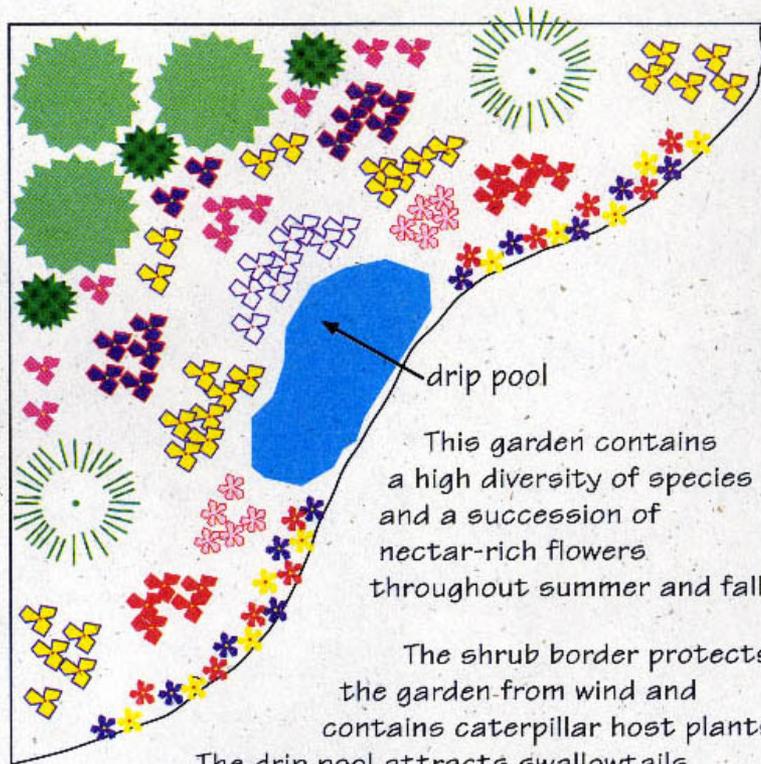


- ▶ Food
- ▶ Cover
- ▶ Water
- ▶ Basking
- ▶ Visibility

Sample Plans

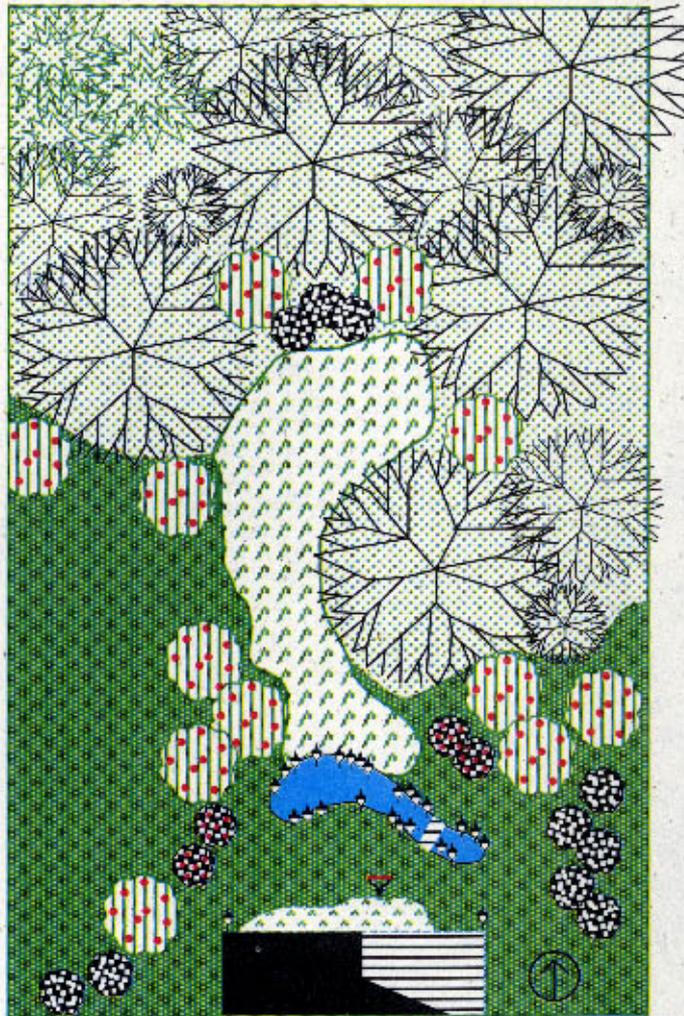
BUTTERFLY GARDEN

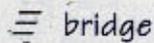
12 ft. x 12 ft. Full sun, average soil



Plant Key

-  lg. shrub
-  sm. shrub
-  native grass
-  New England aster
blazing star
-  lanceleaf coreopsis
sunflower
goldenrod
black-eyed susan
-  purple cornflower
garden phlox
-  mountain mint
-  downy phlox
-  butterfly milkweed
-  annuals



-  large deciduous tree
-  small deciduous tree
-  evergreen tree
-  flowering/fruit tree
-  flowering shrub
-  woodland garden
-  hummingbird garden
-  lawn
-  meadow
-  pond
-  bridge
-  bird feeder

Dimensions: 80' X 130'
 Scale: 1" = 24'

BACKYARD HABITAT - SAMPLE PLAN

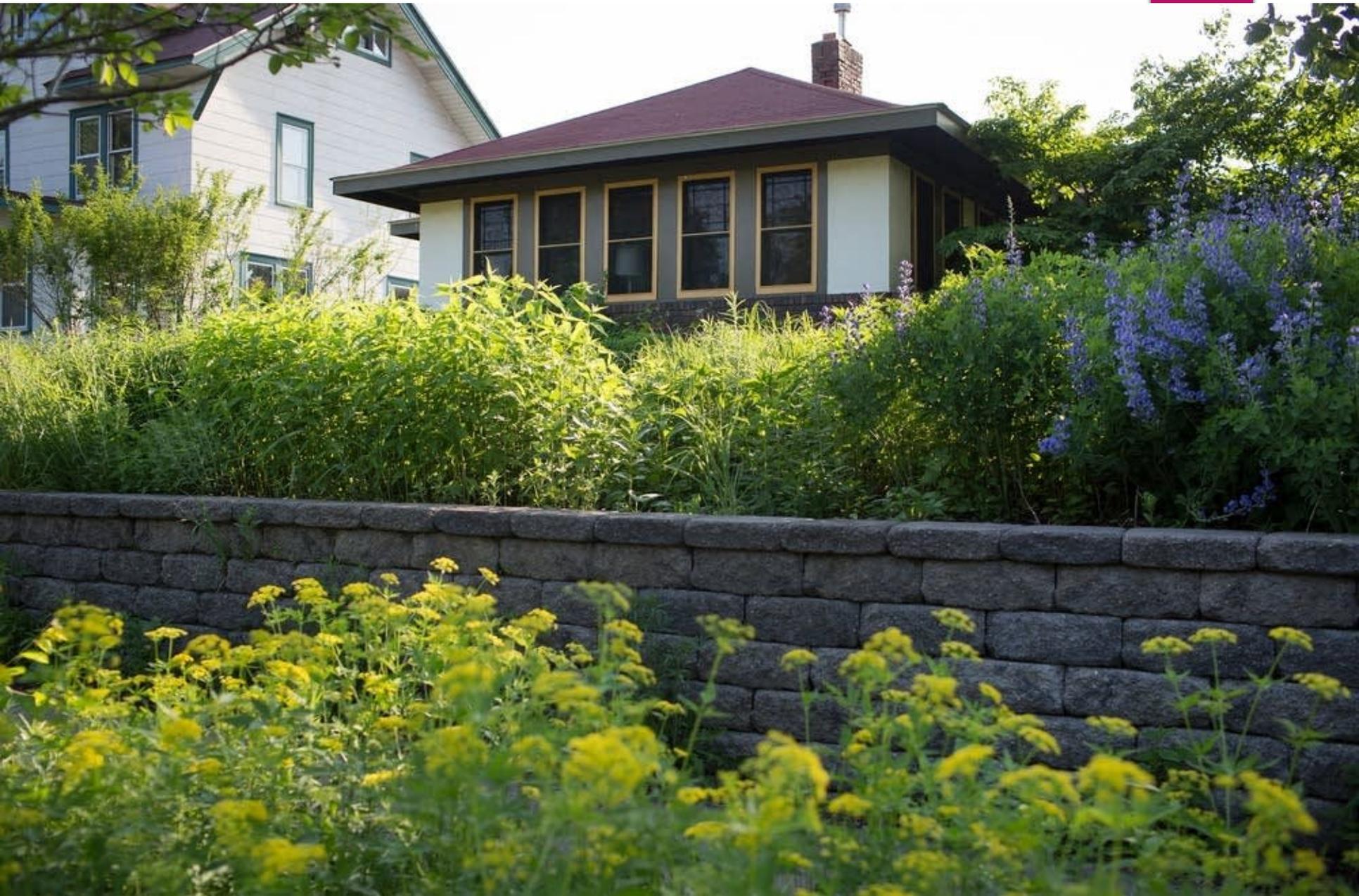
What should your Garden look like?















Plants for Butterflies

(MOSTLY NATIVES)

Amsonia





Asters



Baptisia



Black-eyed Susan (*Rudbeckia*)



Blazing Star (*Liatris*)



Bush Clover (*Lespedeza capitata*)



Butterfly Weed (*Asclepias tuberosa*)



Clover (*Dalea purpurea*)



Compass Plant (*Silphium laciniatum*)



Coneflower (Echinacea)



Cup Plant (*Silphium perfoliatum*)



Goldenrods (*Solidago*)



Ironweed (*Vernonia*)



Jewelweed (*Impatiens capensis*)



Joe Pye Weed (*Eutrochium*)



Meadow Rue (*Thalictrum*)



Milkweeds (Asclepias)



Missouri Primrose (*Oenothera macrocarpa*)



Blue Mistflower (*Conoclinium coelestinum*)



Beebalm (*Monarda*)



New Jersey Tea (*Ceanothus americanus*)





Passionflower Vine (*Passiflora incarnata*)



Plantain





Prairie Dropseed (*Sporobolus heterolepis*)



Quinine, Feverfew (*Parthenium integrifolium*)

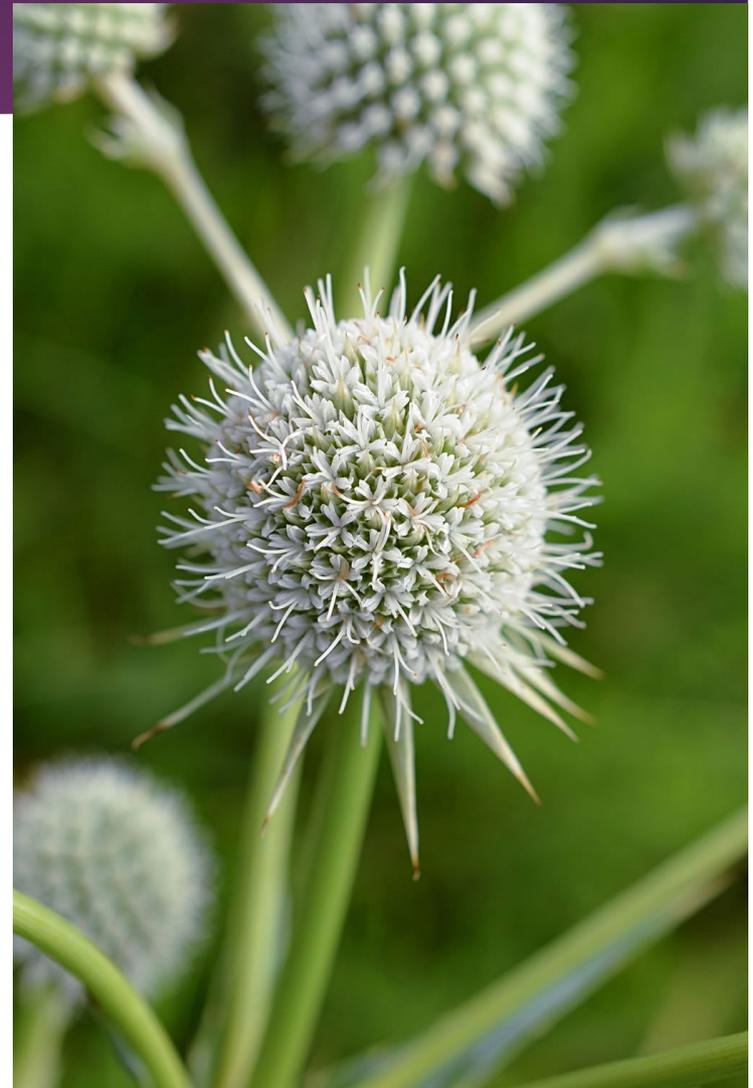


Rose Mallow (*Hibiscus moscheutos*)





Rattlesnake Master (*Eryngium yuccifolium*)





Blue Sage (*Salvia azurea*)





Sunflower (*Helianthus divaricatus*)



Sneezeweed (*Helenium*)



Switchgrass (*Panicum virgatum*)



Toothwort (*Cardamine concatenata*)



Blue Vervain (*Berbena hastata*)



Homeowner's Guidebook of Native Plants,
Integrated Pest Management,
and
Pollution Prevention



Source Reduction Grant
X9-96479407-0

June 30, 2009

Louisville Metro Government
Louisville Water Company
550 South Third Street
Louisville, KY 40202
(502) 569-3600

Louisville Water Guidebook to Native Plants...

Resources

- ▶ **Gardening for Pollinators, USDA Forest service**
 - ▶ <http://www.fs.fed.us/wildflowers/pollinators/gardening.shtml>
- ▶ **Attracting Pollinators to your Garden Using Native Plants**
 - ▶ http://www.fs.fed.us/wildflowers/pollinators/documents/AttractingPollinatorsEasternUS_V1.pdf
- ▶ **Native Plants for Your Backyard, SE US Fish and Wildlife Service**
 - ▶ <http://www.pollinator.org/Resources/nativeplantsSouthEast.pdf>
- ▶ **Gardening for Native Bees**
 - ▶ <http://www.ars.usda.gov/SP2UserFiles/Place/20800500/Gardening.pdf>
- ▶ **Establishing Pollinator Meadows from Seed**
 - ▶ <http://www.xerces.org/wp-content/uploads/2013/12/EstablishingPollinatorMeadows.pdf>
- ▶ **Butterflies and Moths of North America**
 - ▶ <https://www.butterfliesandmoths.org>



Any Questions?