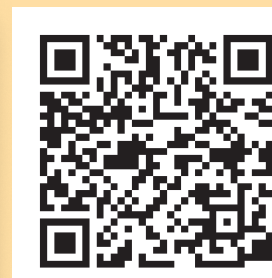
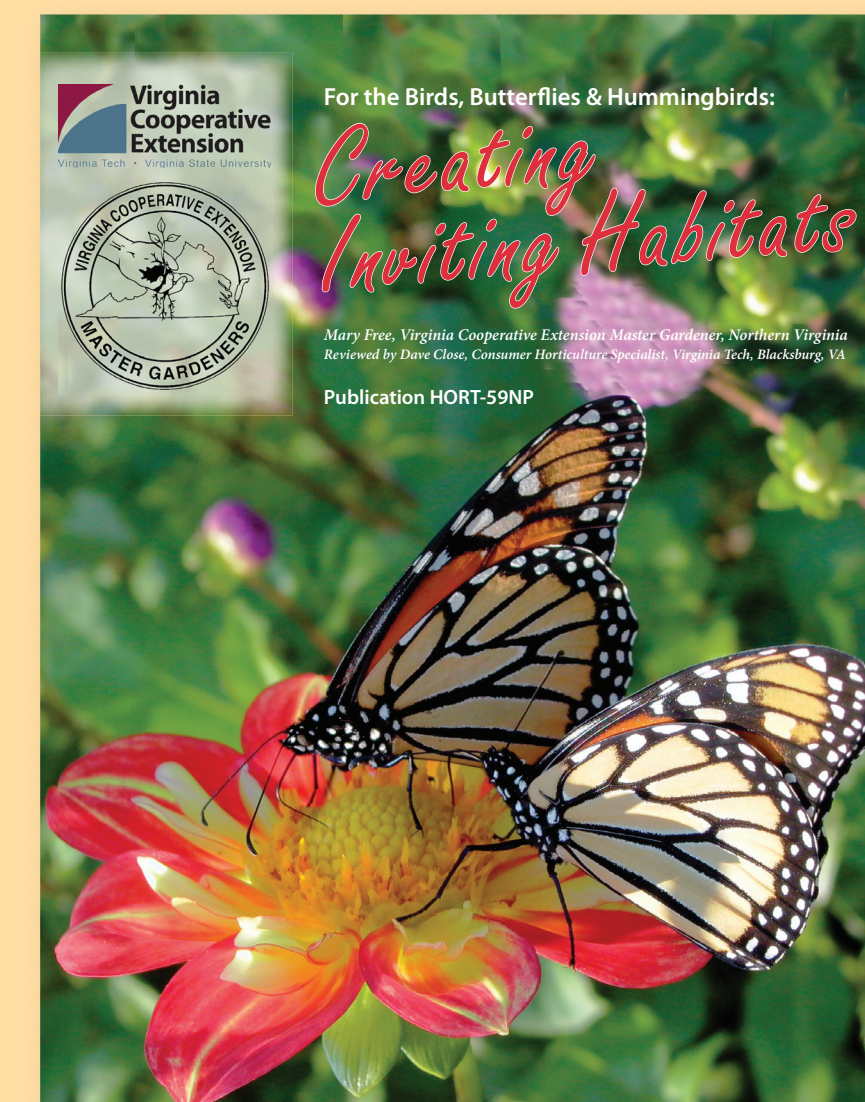


Pollinator Protection Vital to Urban Agriculture

Creating Inviting Habitats
<https://pubs.ext.vt.edu/HORT/HORT-59/HORT-59-PDF.pdf>



Best Management Practices for Pollinators in Northern Virginia

Chart 3. FLOWERS THAT ATTRACT HUMMINGBIRDS

Spring	Spring through Summer	Summer	Late Summer and Fall
Blueberry (Vaccinium spp.)	Blueberry (Vaccinium spp.)	Blueberry (Vaccinium spp.)	Blueberry (Vaccinium spp.)
... (many more rows) (many more rows) (many more rows) (many more rows) ...

Chart 4. Host Plants for Some Common Virginia Butterflies.

Butterfly Species	Host Plant
American Lady	pusstoye, ironweed
Azures	flowers of dogwood, New Jersey tea, cherry, meadowweet, holly, viburnum
Black Swallowtail	dill, parsley, fennel, carrot
Buckeye	gerardia, plantain, snaptaragon, foxglove, rue, monkey flower, verbena
Clouded Sulphur	clover (mainly white)
Eastern Comma	nettle, elm, hops
Eastern Tailed-Blue	clover, vetch, legumes
Fritillaries	violet, pansy, sedum, passionflower
Gray Hairstreak	legumes, cotton flowers, oaks
Monarch	milkweed species
Orange Sulphur	alfalfa, clover, wild indigo
Pearl Crescent	aster (probably not New York, flat-top or white wood asters)
Red Admiral	nettle, Pennsylvania pellitory
Red-Spotted Purple	cherry, serviceberry, cottonwood, aspen, willow, scrub & black oaks
Silver-Spotted Skipper	black & honey locusts, wisteria
Skippers (various)	native grasses & sedges
Spicebush Swallowtail	sassafras, spicebush
Tiger Swallowtail (Eastern)	tulip tree, wild black cherry, lilac, ash, basswood, willow



Juniperus virginiana (Eastern redcedar) is a favorite food source and nesting site for robins.

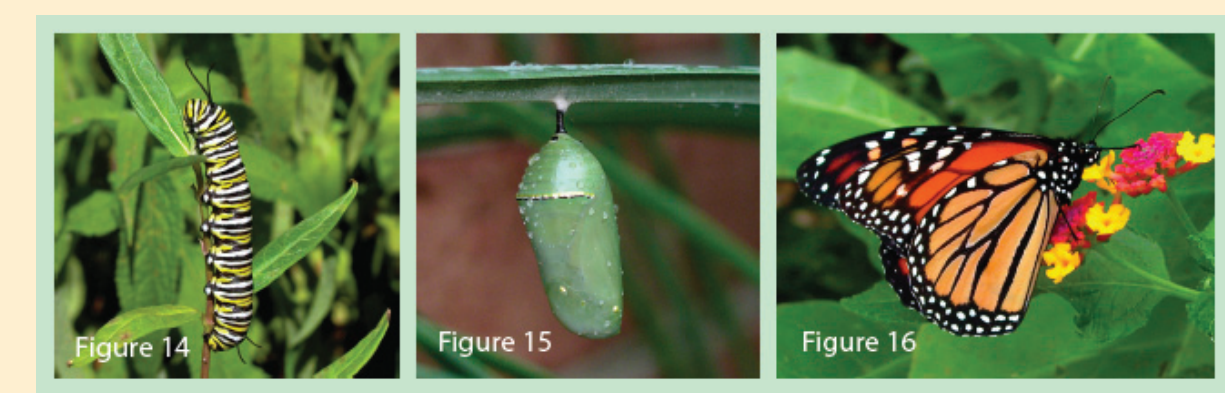


Solidago rugosa 'Fireworks' with a common buckeye.

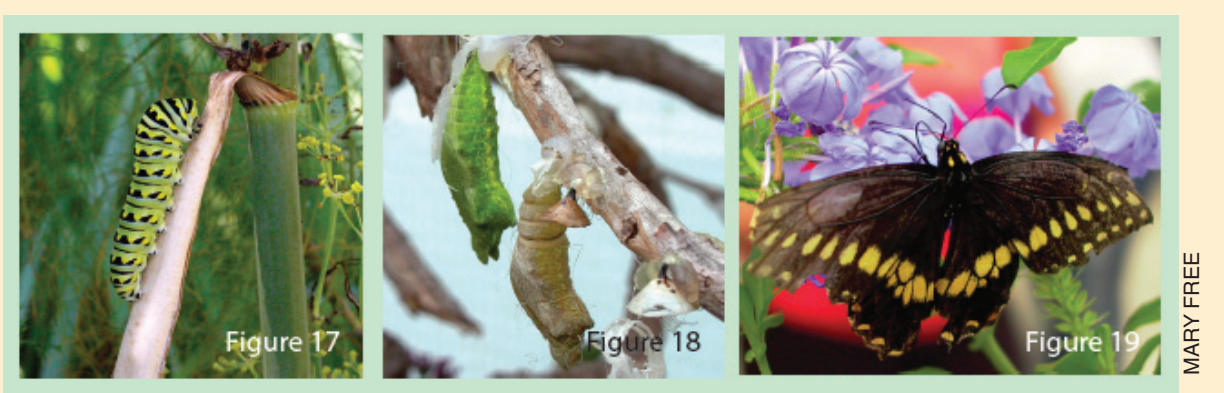
- Use a wide variety of diverse native plants that bloom from early spring into late fall, providing food and shelter, to create a pollinator garden and to maximize pollinator diversity.
- Choose the best plants for pollinator visitor diversity (ranked in order of pollinator preference) including
 - Clustered Mountain Mint (Pycnanthemum muticum)
 - Coastal Plain Joe Pyeweed (Eupatoriadelphus dubius)
 - Stiff Goldenrod (Solidago rigida)
 - Swamp Milkweed (Asclepias incarnata)
 - Gray Goldenrod (Solidago nemoralis)
 - Rattlesnake Master (Eryngium yuccifolium)
 - Flat Topped Aster (Doellingeria umbellata)
 - Spotted Joe Pyeweed (Eupatoriadelphus maculatus 'Bartered Bride')
- Plant in groups that provide at least three square feet of one variety.
- Plant white, yellow, or blue flowers, e.g., Blazing Star or Gayfeather (Liatris), to attract bees.
- Plant scarlet, orange, or red flowers that are tubular shaped, e.g., Fuchsia, to attract hummingbirds.



Echinacea purpurea with a duskywing.



Monarch caterpillar.



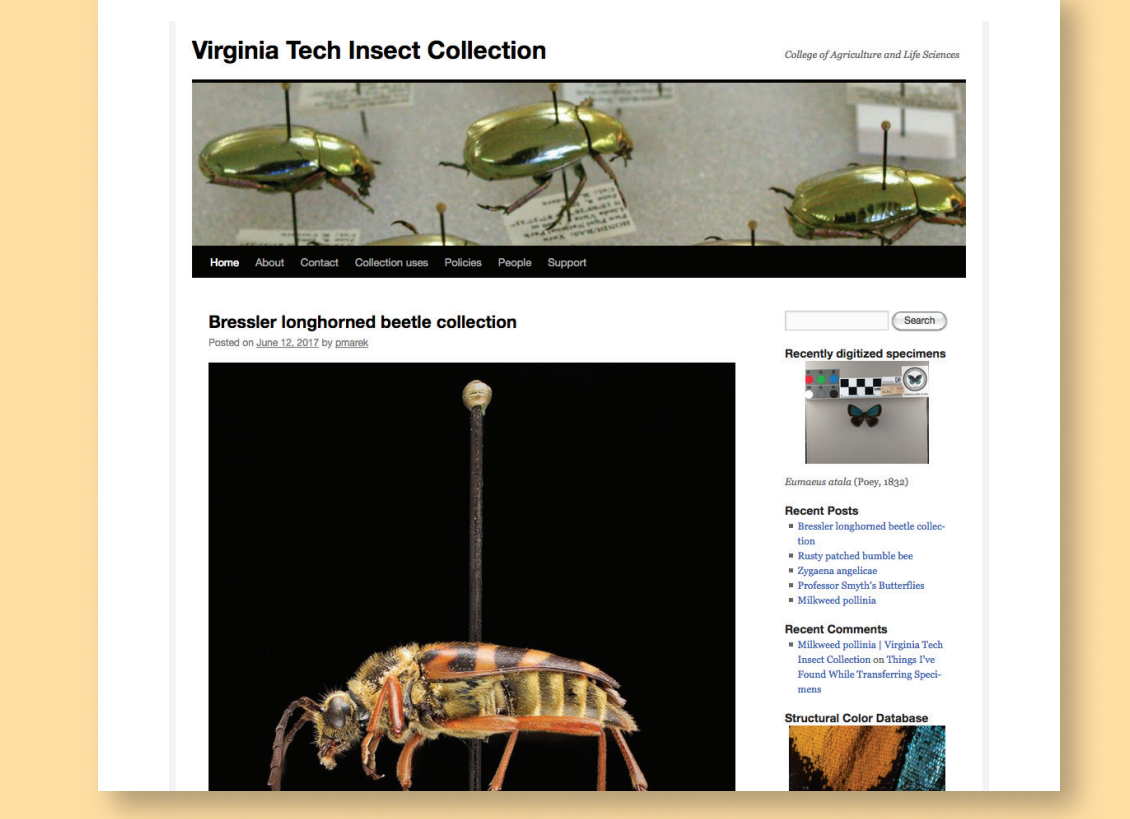
Black swallowtail caterpillar.



Located under a dogwood tree, this hand-painted, ceramic stoneware birdbath seems to appeal to house sparrows.

VCE VT Pollinator Protections in the News

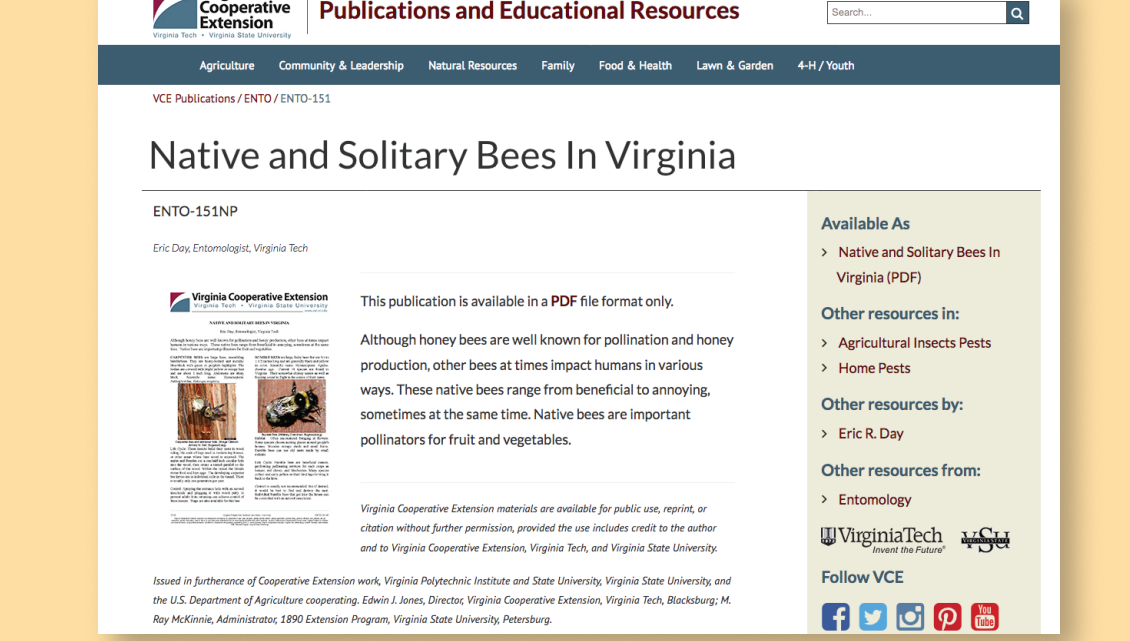
Virginia Tech Insect Collection has a subset of pollinators and a blog
<http://collection.ento.vt.edu/>



Virginia Tech Pesticide Safety Education Program
vpp.ext.vt.edu



Native and Solitary Bees in Virginia
pubs.ext.vt.edu



Virginia Fruit honeybees and pollination
www.virginiafruit.ento.vt.edu/WAFS-bees.html



Master Gardeners of Northern Virginia – Alexandria and Arlington
mgnv.org

Continuing education/training hours: 3,799
 Volunteers: 203
 New volunteers trained annually: 30
 Educational contacts with residents: 52,647 at over 100 educational events and online
 Total volunteer service hours: 12,152

Virginia Cooperative Extension
 Virginia Tech • Virginia State University

Virginia Cooperative Extension is a joint program of Virginia Tech, Virginia State University, the U.S. Department of Agriculture, and state and local governments. VCE programs and employment are open to all, regardless of race, color, national origin, gender, gender identity, gender expression, religion, age, disability, political affiliation, sexual orientation, genetic information, veteran status, or any other basis protected by law. An equal opportunity/affirmative action employer. Issued in furtherance of Cooperative Extension work, Virginia Polytechnic Institute and State University, Virginia State University, and the U.S. Department of Agriculture cooperating. Edwin J. Jones, Director, Virginia Cooperative Extension, Virginia Tech, Blacksburg, Jewel E. Hairston, Administrator, 1890 Extension Program, Virginia State, Petersburg.