



NATIVE PLANTS FOR CREATING POLLINATOR HABITAT IN CENTRAL NY

Prepared by Michael Hough

As part of SUNY Cortland's Bowers Hall renovation, a bioswale was constructed and planted in the Fall of 2013. The bioswale is designed to temporarily hold stormwater runoff from the building and adjacent lawn areas to filter it and increase groundwater infiltration. The site was overtaken by weeds during the 2014 growing season as it remained under contract. A renovation project was initiated by faculty in the spring of 2015 to address this issue. The initial phase of the renovation involved intensive weeding and planting of over 800 plugs of native plants produced in the college greenhouse. The meadow was mowed and additional species were interseeded in the fall. Additional plugs will be produced in 2016 and planted in the spring.

What follows is a list of plants proposed or currently growing in the bioswale. All are native to Eastern North America, though some are not native to Central New York. Since the existing trees on the site are relatively young, the majority of plants are adapted to growing in areas that receive sunlight for most of the day. As the trees mature more shade tolerant plants will likely be added. The plants have been chosen to provide a multitude of ecosystem functions. Many of them provide nectar sources for honeybees, native bees, flies, butterflies, moths, and hummingbirds. Others serve as host plants for the larvae of native butterflies and moths. The showy asters, sunflowers, and similar plants provide abundant seeds for songbirds.

Most of the seeds used for growing the plugs were collected locally or donated by people from Cornell Plantations and the Finger Lakes Native Plant Society. The following selection of regional nurseries frequently carry potted plants of the species indicated in the list.

Amanda's Garden

8410 Harpers Ferry Road
Springwater, NY 14560
(585) 750-6288
www.amandagarden.com

Bakers Acres Inc.

Rt. 34, between Ithaca & Auburn
Groton, N.Y. 13073
(607) 533-4653
www.bakersacres.net

Maple Hill Nursery

4116 Pompey Center Rd.
Manlius, NY
(315) 447-3196

The Plantsmen Nursery

482 Peruville Rd. (Route 34B)
Groton, NY 13073
(607) 533-7193
www.plantsmen.com

White Oak Nursery

4350 Kipp Rd.
Canandaigua, NY 14424
(315) 789-3509
www.whiteoaknursery.biz

Lan's Flower Farm

4913 State Route 31
Clay, NY 13041-8708
(315) 688-8584
www.lansflowerfarm.com

Additional Resources

Finger Lakes Native Plant Society flnps.org

Habitat Gardening in Central New York www.hgcny.org

New York Flora Atlas <http://www.newyork.plantatlas.usf.edu/>

The Plant List

Plants are arranged in categories and alphabetically by scientific name. Species with an asterisk are not native to Central NY. The bloom times provided are approximate.

Light requirements:

 = Full Sun  = Part Sun  = Shade

Soil moisture requirements:

W = Wet **M** = Mesic (medium moisture) **D** = Dry

Wildlife values:



- Nectar source for bees



- Nectar source for butterflies and moths



- Food plant of native butterfly and moth caterpillars



- Nectar source for hummingbirds



- Food source for seed eating birds

Common Name	Scientific Name	Amanda's Garden	Baker's Acres	Lan's Flower Farm	Maple Hill	The Plantsmen	White Oak	Sun	Soil	Bloom	Wildlife Value
FORBS (non-graminoid herbaceous flowering plants)											
Purple False Foxglove	<i>Agalinis purpurea</i>								W-M-D	Aug-Sep	 
Anise hyssop*	<i>Agastache foeniculum</i>	X	X	X	X	X			W- M-D	Jun-Sep	 
Nodding onion	<i>Allium cernuum</i>	X		X	X	X			W-M-D	Jul-Aug	
Wild Columbine	<i>Aquilegia canadensis</i>	X	X	X	X	X		  	W- M-D	Apr-Jun	  
Poke Milkweed	<i>Asclepias exaltata</i>							 	W-M-D	Jun-Jul	  
Swamp Milkweed	<i>Asclepias incarnata</i>	X	X	X	X	X			W-M-D	Jun-Aug	   
Showy Milkweed*	<i>Asclepias speciosa</i>								W- M-D	Jun-Aug	   
Prairie Milkweed*	<i>Asclepias sullivantii</i>								W- M-D	Jun-Aug	   
Common Milkweed	<i>Asclepias syriaca</i>	X				X			W- M-D	Jun-Aug	  
Butterfly Milkweed	<i>Asclepias tuberosa</i>	X	X	X	X	X			W-M-D	Jun-Aug	   
Whorled Milkweed	<i>Asclepias verticillata</i>								W-M-D	Jul-Sep	  
Aromatic Aster*	<i>Aster oblongifolius</i>		X						W-M-D	Aug-Nov	   
Downy Wood Mint	<i>Blephilia ciliata</i>								W- M-D	Jun-Jul	 
White Turtlehead	<i>Chelone glabra</i>	X		X	X	X			W-M-D	Jul-Sep	   

Common Name	Scientific Name	Amanda's Garden	Baker's Acres	Lan's Flower Farm	Maple Hill	The Plantsmen	White Oak	Sun	Soil	Bloom	Wildlife Value
Meadow Thistle	<i>Cirsium pumilum</i>								W-M-D	Aug-Oct	   
Blue Mistflower*	<i>Conoclinium coelestinum</i>								W-M-D	Sep-Oct	  
Purple Prairie Clover*	<i>Dalea purpurea</i>								W- M-D	Jul-Sep	 
Showy Tick Trefoil	<i>Desmodium canadense</i>								W- M-D	Jul-Aug	  
Pale Purple Coneflower*	<i>Echinacea pallida</i>								W- M-D	Jun-Jul	   
Purple Coneflower*	<i>Echinacea purpurea</i>	X	X	X	X	X			W- M-D	Jul-Sep	   
Rattlesnake Master*	<i>Eryngium yuccifolium</i>								W-M-D	Jul-Sep	 
Spotted Joe-pye-weed	<i>Eutrochium maculatum</i>	X	X		X	X			W-M-D	Jun-Aug	   
Common Boneset	<i>Eupatorium perfoliatum</i>	X			X	X			W-M-D	Jul-Sep	   
Upland Boneset	<i>Eupatorium sessilifolium</i>								W-M-D	Jul-Sep	  
Bottle Gentian	<i>Gentiana clausa</i>								W-M-D	Aug-Oct	
Fringed Gentian	<i>Gentianopsis crinita</i>								W-M-D	Aug-Oct	
Wild Geranium	<i>Geranium maculatum</i>	X			X	X		  	W- M-D	Apr-Jul	 
Water Avens	<i>Geum rivale</i>	X				X			W -M-D	May-Jul	
Prairie Smoke	<i>Geum triflorum</i>	X			X	X			W- M-D	Apr-Jun	

Common Name	Scientific Name	Amanda's Garden	Baker's Acres	Lan's Flower Farm	Maple Hill	The Plantsmen	White Oak	Sun	Soil	Bloom	Wildlife Value
Common Sneezeweed	<i>Helenium autumnale</i>				X	X			W-M-D	Aug-Oct	 
Downy Sunflower*	<i>Helianthus mollis</i>								W- M-D	Aug-Sep	   
Oxeye Sunflower	<i>Heliopsis helianthoides</i>	X	X	X	X	X			W- M-D	Jun-Sep	  
Swamp Rose Mallow	<i>Hibiscus moscheutos</i>		X		X	X			W-M-D	Jul-Sep	   
Blue Flag	<i>Iris versicolor</i>	X	X	X	X	X			W-M-D	May-Jul	 
Round-headed Bush-clover	<i>Lespedeza capitata</i>								W- M-D	Aug-Sep	  
Hairy Bush-clover	<i>Lespedeza hirta</i>								W-M-D	Aug-Sep	  
Button Blazing-star*	<i>Liatris aspera</i>								W- M-D	Jul-Oct	   
Marsh Blazing Star*	<i>Liatris spicata</i>		X	X	X	X			W-M-D	Jul-Sep	   
Cardinal Flower	<i>Lobelia cardinalis</i>	X	X	X	X	X			W-M-D	Jul-Sep	  
Indian Tobacco	<i>Lobelia inflata</i>							 	W- M-D	Jul-Oct	
Great Blue Lobelia	<i>Lobelia siphilitica</i>	X	X	X	X	X			W-M-D	Jul-Oct	  
Bradbury's Bee Balm*	<i>Monarda bradburiana</i>								W- M-D	Jun-Jul	   
Oswego Tea	<i>Monarda didyma</i>	X	X	X	X	X			W-M-D	Jun	   
Wild Bergamot	<i>Monarda fistulosa</i>	X				X			W- M-D	Jul-Sep	   

Common Name	Scientific Name	Amanda's Garden	Baker's Acres	Lan's Flower Farm	Maple Hill	The Plantsmen	White Oak	Sun	Soil	Bloom	Wildlife Value
Horsemint	<i>Monarda punctata</i>					X			W-M-D	Jul-Sep	  
Wild Quinine*	<i>Parthenium integrifolium</i>								W-M-D	Jun-Sep	
Foxglove Beardtongue	<i>Penstemon digitalis</i>	X	X	X	X	X		  	W- M-D	Jun-Jul	
Hairy Beardtongue	<i>Penstemon hirsutus</i>		X					  	W- M-D	May-Jun	
Ditch Stonecrop	<i>Penthorum sedoides</i>								W-M-D	Jun-Sep	?
Sweet Everlasting	<i>Pseudognaphalium obtusifolium</i>								W-M-D	Aug-Sep	
Blunt Mountain Mint	<i>Pycnanthemum muticum</i>					X			W- M-D	Jun-Sep	 
Slender Mountain Mint	<i>Pycnanthemum tenuifolium</i>								W-M-D	Jun-Sep	 
Common Mountain Mint	<i>Pycnanthemum virginianum</i>								W-M-D	Jun-Sep	 
Yellow Coneflower*	<i>Ratibida pinnata</i>			X		X			W- M-D	Jul-Sep	   
Black-eyed Susan	<i>Rudbeckia hirta ssp. hirta</i>	X	X		X				W- M-D	Jun-Oct	   
Cutleaf Coneflower	<i>Rudbeckia laciniata</i>	X		X	X	X		  	W- M-D	Jul-Oct	   
Wild Petunia*	<i>Ruellia humilis</i>								W- M-D	Jun-Aug	 
Maryland Figwort	<i>Scrophularia marilandica</i>								W- M-D	Jul-Oct	 
American Senna	<i>Senna hebecarpa</i>								W- M-D	Jul-Aug	  

Common Name	Scientific Name	Amanda's Garden	Baker's Acres	Lan's Flower Farm	Maple Hill	The Plantsmen	White Oak	Sun	Soil	Bloom	Wildlife Value
Royal Catchfly*	<i>Silene regia</i>								W- M-D	Jul-Aug	 
Fire Pink*	<i>Silene virginica</i>								W- M-D	May-Jul	 
Narrow-leaved Blueeye Grass	<i>Sisyrinchium angustifolium</i>								W-M-D	May-Jun	 
Stiff Goldenrod	<i>Solidago rigida</i>	X							W- M-D	Aug-Oct	   
Heart-leaved Aster	<i>Symphyotrichum cordifolium</i>							 	W-M-D	Sep-Oct	   
New England Aster	<i>Symphyotrichum novae-angliae</i>	X			X	X			W-M-D	Aug-Oct	   
Crooked-stemmed Aster	<i>Symphyotrichum prenanthoides</i>								W- M-D	Aug-Oct	  
Yellow Pimpernel	<i>Taenidia integerrima</i>							 	W-M-D	May-Jul	 
Ohio Spiderwort*	<i>Tradescantia ohiensis</i>								W- M-D	May-Jul	
Giant Ironweed	<i>Vernonia gigantea</i>								W- M-D	Aug-Oct	  
Culver's Root	<i>Veronicastrum virginicum</i>								W-M-D	Jun-Aug	
Golden Alexanders	<i>Zizia aurea</i>	X				X			W-M-D	Apr-Jun	 
GRASSES											
Big Bluestem	<i>Andropogon gerardii</i>	X			X	X			W- M-D	Jun-Sep	 
Purple Love Grass	<i>Eragrostis spectabilis</i>				X				W-M-D	Jul-Aug	

Common Name	Scientific Name	Amanda's Garden	Baker's Acres	Lan's Flower Farm	Maple Hill	The Plantsmen	White Oak	Sun	Soil	Bloom	Wildlife Value
Switchgrass	<i>Panicum virgatum</i>	X	X	X	X	X			W- M-D	Jul-Sep	 
Little Bluestem	<i>Schizachyrium scoparium</i>	X	X	X	X	X			W- M-D	Jul-Oct	 
Indiangrass	<i>Sorghastrum nutans</i>	X	X			X			W- M-D	Aug-Sep	 
Prairie Dropseed	<i>Sporobolus heterolepsis</i>		X	X	X	X			W- M-D	Aug-Oct	
Purpletop	<i>Tridens flavus</i>								W- M-D	Aug-Oct	
SEDGES											
Yellow Sedge	<i>Carex flava</i>								W-M-D	May-Jun	
Pennsylvania Sedge	<i>Carex pensylvanica</i>				X	X		 	W- M-D	Apr-May	
Gray's Sedge	<i>Carex grayi</i>								W-M-D	May-Jun	 
SHRUBS											
Red Chokeberry	<i>Aronia arbutifolia</i>				X	X	X		W- M-D	May	  
Red-osier Dogwood	<i>Cornus sericea</i>		X		X	X	X		W-M-D	Jun-Sep	  
Shrubby St. John's Wort	<i>Hypericum prolificum</i>				X	X			W- M-D	Jul-Sep	 
Inkberry*	<i>Ilex glabra</i>		X		X				W- M-D	Jun-Jul	  
Winterberry Holly	<i>Ilex verticillata</i>		X		X	X	X	 	W-M-D	Jun-Jul	  

Common Name	Scientific Name	Amanda's Garden	Baker's Acres	Lan's Flower Farm	Maple Hill	The Plantsmen	White Oak	Sun	Soil	Bloom	Wildlife Value
Mountain Laurel*	<i>Kalmia latifolia</i>		X		X				W- M-D	May-Jun	 
Spicebush	<i>Lindera benzoin</i>		X		X	X	X	 	W-M-D	Mar	  
Pinxterbloom Azalea	<i>Rhododendron periclymenoides</i>							 	W- M-D	May	  
Smooth Rose	<i>Rosa blanda</i>							 	W- M-D	Jun-Jul	 
Carolina Rose	<i>Rosa carolina</i>							 	W- M-D	Jun-Aug	 
TREES											
Red Maple	<i>Acer rubrum</i>		X		X	X	X	  	W-M-D	Apr-May	 
Common Serviceberry	<i>Amelanchier arborea</i>						X	  	W- M-D	Apr-May	  
Musclewood	<i>Carpinus caroliniana</i>				X	X	X		W- M-D	Apr-May	 
Tuliptree	<i>Liriodendron tulipifera</i>				X	X	X		W- M-D	May-Jun	   
Sweetbay*	<i>Magnolia virginiana</i>					X		 	W-M-D	Apr-May	 
Black Tupelo	<i>Nyssa sylvatica</i>				X	X	X	 	W-M-D	May-Jun	 
Northern Red Oak	<i>Quercus rubra</i>		X		X	X	X	 	W- M-D	May	 