

**Plant Enhancement Activity – PLT15 – Establish pollinator and/or beneficial insect habitat**



**Enhancement Description**

Seed or plug nectar and pollen producing plants in non-cropped areas such as field borders, vegetative barriers, contour buffer strips, grassed waterways, shelterbelts, hedgerows, windbreaks, conservation cover, and riparian forest and herbaceous buffers.

**Land Use Applicability**

Cropland, Pastureland, Rangeland, Forestland

**Benefits**

Increased habitat for pollinators will improve fruit set, size and quality, productivity per acre, biodiversity, beneficial insect populations, and the food base for many

wildlife species. The increased plant diversity of pollinator habitat will enhance wildlife habitat and may increase populations of other beneficial insects, reducing the need for pesticides.

**Conditions Where Enhancement Applies**

This enhancement applies to all crop, pasture, range or forest land use acres.

Habitat areas must be at least 0.5 acres for each 40 acres of the selected land use. Where the selected land use is less than 40 acres, the required amount of habitat will be reduced according to the ratio of 0.5 acres to 40 acres. Where the selected land use is greater than 40 acres, the 0.5 acre habitat area(s) may be a single site or interspersed sites in the larger land use area as agreed to by the NRCS State Biologist.

**Criteria**

Establish habitat for pollinators (A) and beneficial insects (B) as described below:

**A. Pollinators**

1. Lists of plants suitable for pollinator habitat will be developed by NRCS at the state level. The lists must emphasize as many native species as practical.
2. The habitat planting will include (as a minimum) three early, three mid, and three late flowering species from the NRCS state list including forbs, legumes, vines, shrubs, and/or trees. Plants that produce toxic nectar will not be planted.
3. Any other use of the pollinator habitat area must not compromise its intended purpose.

**B. Beneficial insects**

1. Identify pest species and associated beneficial insects targeted for control.
2. Inventory existing conditions on the farm to determine habitat needs of selected beneficial insects, including:
  - a. Permanent insectary sites,



- b. Augmentation of existing hedgerows, field borders or other odd areas adjacent to fields, and/or
    - c. Trap crop areas .
  3. Plant selection should be matched to attract identified beneficial insects.
  4. Beneficial insect habitat may include either annual or perennial cover. If annual cover is used, the cover must be replanted each year during the life of the contract.
  5. Lists of plants suitable for beneficial insect habitat will be developed by NRCS at the state level. The lists must emphasize as many native species as practical.
- C. Planting Criteria for both pollinators and beneficial insects
  1. Site selection should consider existing weed pressures and available methods of control, delay planting if high weed pressure requires aggressive treatment.
  2. Site preparation and plant establishment shall be accomplished according to the appropriate NRCS conservation practice and specifications.
  3. Successful establishment is when the planting is providing at least 80% soil cover, visually estimated, and that the resultant cover consists primarily of the early, mid, and late blooming species planted for pollinators and/or other beneficial insects.
  4. Insecticides should not be used in the habitat planting area.
  5. Herbicides are allowed during site preparation (prior to planting) when it is necessary to eliminate competing weeds from a planting area in order for nectar and pollen producing plants to establish.
  6. After a pollinator enhancement has been planted, herbicides may be spot-sprayed to remove broad-leaf weeds, or grass-selective herbicides may be applied to larger areas to eliminate persistent weedy grasses. Similarly, the entire site may be mowed in the first year post-planting to reduce annual or biennial weeds that persist (site should be mowed just before dominant annual weeds flower).
- D. Operation and Maintenance for both pollinators and beneficial insects
  1. Management and/or maintenance activities such as mowing, haying, burning, or grazing must be conducted outside of the growing season or bloom period. Maintenance should be done on less than 1/3 of the acreage during any given year, except during the first year post-planting.
  2. Insecticides should not be used in the habitat planting area. Even non-synthetic botanical insecticides can harm beneficial insects. If adjacent crop areas are treated with insecticides use one or more of the following actions to limit insecticides in the pollinator habitat area:
    - a. Create insecticide free buffers in the first 25 feet of crop area,
    - b. Use application methods that minimize drift to the adjacent habitat,
    - c. Apply active ingredients in the evening when most insect pollinators are not active.
  3. The planted habitat areas must be regularly inspected for invasive and/or noxious plants or other plants that may compromise the purpose of this enhancement. Undesirable species should be controlled using the method least damaging method, for example, spot-spraying with herbicide or physical removal.
  4. If habitat is part of an organic farming operation, only materials allowed according to the USDA National Organic Program's National List of Allowed and Prohibited Substances may be used.



### **Adoption Requirements**

This enhancement is considered adopted when pollinator or beneficial habitat has been established that meet or exceed the above criteria, respectively, and the established habitat is maintained and functioning as intended.

### **Documentation Requirements**

1. A map showing the location and dimension of the habitat areas
2. A list of pollinator or beneficial species planted
3. List of maintenance activities carried out to manage the habitat areas

### **References**

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CSP 2013-1  
State Supplement  
PLT15 - Establish Pollinator and/or Beneficial Insect Habitat

SPECIES RECOMMENDED FOR PLANTING POLLINATOR ENHANCEMENT AREAS IN MISSISSIPPI

Flowering Dates	Soil	Sun	Botanical Name	Common Name	Color	Height	Visitation by Pollinator	Planting Rates #/Ac
<b>Perennial Flowers</b>								
April-June	moist	sun to partial shade	Coreopsis spp.	Tickseed	golden-yellow	4-18"	butterflies, hummingbirds	2
March-September	moist to dry	sun to partial shade	Salvia coccinea	Blood Sage, Scarlet Sage	red	12-36"	butterflies, bees, hummingbirds	1
March-June	moist to dry	sun to partial shade	Salvia lyrata	Lyre-leaf Sage	white, blue, lavender, violet	12-24"	hummingbirds, butterflies	1
February- May	moist to dry	sun	Nuttallanthus spp.	Toadflax	blue, violet	1-3'	butterflies, bees	1
May-September	moist to dry	sun to partial shade	Achillea spp.	Yarrow	white, light yellow	10-36"	bees, beetles, flies, butterflies	1
May-August	moist to wet	sun	Asclepias spp.	Common Milkweed, Butterfly Milkweed, Swamp Milkweed	pink, purple, white, orange to yellow	24-36"	butterflies, bees	1
May-September	dry	sun to partial shade	Coreopsis tinctoria	Golden Tickseed	yellow with red-brown centers	18-24"	butterflies, syphrid flies, bees	1
May-July	moist	sun to partial shade	Desmanthus illinoensis	Illinois Bundleflower	white	2-18"	bees, butterflies, flies	1
May-July	moist to dry	sun to partial shade	Dracopis spp.	Clasping Coneflower	yellow with red-brown centers	12-36"	bees, butterflies	1
May-July	moist to dry	sun to partial shade	Penstemon spp.	Beardtongue	white to blue	1-3'	bees, hummingbirds	1
May-September	moist to dry	sun to partial shade	Ratibida pinnata	Pinnate Prairie Coneflower or Greyhead Coneflower	yellow with red-brown centers	3-5'	butterflies, bees	1
May-October	moist to dry	sun to partial shade	Rudbeckia spp.	Black-eyed Susan, Brown-eyed Susan	yellow, brown center	14-20"	bees, beetles, flies, butterflies	1
May-June	dry	sun to partial shade	Tephrosia virginiana	Virginia Goat's-rue	pink/yellow	8-28"	butterflies, hummingbirds	1
Sept-Oct	moist	sun	Bidens aristosa	Beggar Ticks or Bur-marigold	yellow	24-36"	bees, beetles, flies, butterflies	1
June-September	moist	sun to partial shade	Chamaecrista spp.	Partridge Pea	yellow	18-30"	bees	2
July-August	moist to dry	sun to partial shade	Desmodium spp.	Ticktrefoil, Beggar Ticks, Stick Tights	pink to purple	18-30"	bees, butterflies	1
July-October	moist	sun to partial shade	Eupatoriadelphus spp.	Trumpet Weed or Joe Pye Weed	pink, lavender	to 8'	bees, butterflies, flies	1
August-Oct	dry	sun to partial shade	Eupatorium spp.	Boneset, Thoroughwort, Sweetscented Joe-Pye Weed	white, pink	18-36"	butterflies, beetles, bees	1
August-Oct	dry to wet	sun	Helianthus spp.	Narrowleaf or Swamp, Woodland, Hairy Sunflowers	yellow	5-7'	butterflies, beetles, bees	1
July-Sept	moist to mesic	sun	Liatris spicata	Dense Blazing Star	rosy-pink to purple	3-4'	butterflies, bees, hummingbirds	1
July-Oct	dry	sun to partial shade	Solidago spp.	Goldenrod	yellow	2-4'	butterflies, bees, beetles	1
August-October	moist to dry	sun to partial shade	Symphyotrichum spp.	New England Aster, Blue Wood Aster, White Oldfield Aster	white, blue, lavender	18"-6'	butterflies, bees	1
August-October	moist	sun to partial shade	Vernonia gigantea	Ironweed	purple	3-5'	bees, beetles, flies, butterflies	1

Forb (flower) mixtures should be planted at 9-11 lbs/ac. Mixtures should contain at least 3 species that flower before June, 3 additional species that flower sometime between May-July, and 3 additional species that flower after July.

<b>Native Grasses</b>								<b># PLS/Ac</b>
June-October	dry	sun to partial shade	<i>Schizachyrium scoparium</i>	little bluestem	yellow	3-6'	butterflies (larval host), bees (for ground nesting)	1.5 - 3.0
Aug-October	moist to dry	sun to partial shade	<i>Sorghastrum nutans</i>	Indiangrass	yellow	3-8'	butterflies (larval host), bees (for ground nesting)	0.5 - 1.5
Aug-October	moist to dry	sun to partial shade	<i>Andropogon gerardii</i>	big bluestem	red, blue, brown	4-8'	butterflies (larval host), bees (for ground nesting)	0.5 - 1.5
Aug-October	moist to dry	sun to partial shade	<i>Andropogon spp.</i>	other native bluestem spp. (broomsedge, bushy, etc.)	yellow, white, brown	3-6'	butterflies (larval host), bees (for ground nesting)	0.5 - 1.5
Aug-October	moist to dry	sun to partial shade	<i>Panicum virgatum</i>	switchgrass	green, brown	3-6'	butterflies (larval host), bees (for ground nesting)	0.5 - 1.5
June-October	moist to dry	sun to partial shade	<i>Bouteloua curtipendula</i>	sideoats grama	red, orange, yellow	1-3'	butterflies (larval host), bees (for ground nesting)	0.5 - 1.5

If native grasses are added to the forb mixture total grass seeding density should not be less than 1.5 lbs. PLS/ac for one species of grass and not exceed 4 lbs. PLS/ac. for 2 or more species of grass.

SPECIES RECOMMENDED FOR MANAGING EXISTING POLLINATOR ENHANCEMENT AREAS IN MISSISSIPPI

Flowering Dates	Soil	Sun	Botanical Name	Common Name	Color	Height	Visitation by Pollinator	Also a host
<b>Early Flowering</b>								
<b>Perennial Flowers</b>								
April-June	dry	shade to partial shade	Phlox amoena	Hairy Phlox	lavender	12-15"	butterflies, hummingbirds	
April-June	moist to dry	shade to partial shade	Heuchera americana	American Alumroot	white	6-30"	hummingbirds, sweat bees	
March-September	moist to dry	sun to partial shade	Salvia coccinea	Blood Sage, Scarlet Sage	red	12-36"	butterflies, bees, hummingbirds	
March-June	moist to dry	sun to partial shade	Salvia lyrata	Lyre-leaf Sage	white, blue, lavender, violet	12-24"	hummingbirds, butterflies	
February- May	moist to dry	sun	Nuttallanthus spp.	Toadflax	blue, violet	1-3'	butterflies, bees	
March-April	moist	shade	Arisaema spp.	Jack-in the-Pulpit	greenish maroon	12-24"	flies	
April-June	moist	shade to partial shade	Phlox glaberrima var. glaberrima	Piedmont Smooth Phlox	pink	30-36"	butterflies, moths, hummingbirds	X
April-May	moist	sun to partial shade	Amsonia tabernaemontana	Eastern Bluestar	blue	to 36"	butterflies, hummingbirds, carpenter bee, moths	X
April-June	moist	sun to partial shade	Coreopsis spp.	Tickseed	golden-yellow	4-18"	butterflies, hummingbirds	
March-May	wet to moist	sun	Iris fulva	Copper Iris	orange	20-26"	bees	
March-May	wet to moist	sun	Iris virginica	Southern Blueflag	blue	24-40"	bees	
<b>Introduced Legumes</b>								
April-June	moist to dry	sun to partial shade	Trifolium spp.	white clover (ex.: Ladino; White Dutch), hop clover	white, pink, yellow	4-12"	bees, butterflies	
<b>Native Grasses</b>								
June-October	dry	sun to partial shade	<i>Schizachyrium scoparium</i>	little bluestem	yellow	3-6'	butterflies, bees (for ground nesting)	X
Aug-October	moist to dry	sun to partial shade	<i>Sorghastrum nutans</i>	Indiangrass	yellow	3-8'	butterflies, bees (for ground nesting)	X
Aug-October	moist to dry	sun to partial shade	<i>Andropogon gerardii</i>	big bluestem	red, blue, brown	4-8'	butterflies, bees (for ground nesting)	X
Aug-October	moist to dry	sun to partial shade	<i>Andropogon</i> spp.	other native bluestem spp. (broomsedge, bushy, etc.)	yellow, white, brown	3-6'	butterflies, bees (for ground nesting)	X
Aug-October	moist to dry	sun to partial shade	<i>Panicum virgatum</i>	switchgrass	green, brown	3-6'	butterflies, bees (for ground nesting)	X
June-October	moist to dry	sun to partial shade	<i>Bouteloua curtipendula</i>	sideoats grama	red, orange, yellow	1-3'	butterflies, bees (for ground nesting)	X
April-June	moist	sun to partial shade	<i>Tripsacum dactyloides</i>	eastern gamagrass	brown	3-6'	butterflies, bees (for ground nesting)	X
<b>Vines</b>								
March-April	moist to dry	sun to partial shade	Gelsemium sempervirens	Yellow Jessamine	yellow	10-20'	hummingbirds, butterflies	
March-July	moist to dry	sun to partial shade	Lonicera sempervirens	Coral Honeysuckle	red	10-20'	hummingbirds, butterflies	X
April-May	moist to wet	sun to partial shade	Bignonia capreolata	Cross-vine	red and yellow	30-45'	hummingbirds, bees	
April-May	moist to wet	sun to partial shade	Wisteria frutescens	American Wisteria	bluish-purple, lavender	to 30'	bees	
<b>Trees &amp; Shrubs</b>								
April-May	dry to moist	shade to sun	Amelanchier arborea	Serviceberry	white	12-36'	bees, flies, beetles	
April-May	dry to moist	shade to partial shade	Asimina spp.	Pawpaw	reddish-maroon	6-20'	flies, beetles, moths	
April	dry to moist, tolerates high calcium	sun to partial shade	Rhus spp.	Sumac spp.	white	4-6'	bees, syrphid flies, butterflies	X
March-May	dry to moist	sun to partial shade	Rubus spp.	Dewberry, Blackberry	white	1-5'	bees, beetles, butterflies	
April-May	dry to moist, tolerates high calcium	sun to shade	Vaccinium spp.	Sparkleberry, huckleberry, blueberry	white	6-30'	butterflies	X
March-May	dry to moist, tolerates high calcium	sun to shade	Cercis canadensis	Redbud	pinkish-purple	15-25'	butterflies, bees, flies	X
April-May	dry to moist, well-drained	sun to partial shade	Chionanthus virginicus	Fringe-tree	white	12-15'	butterflies, bees	X
March-June	dry to wet	shade to partial shade	Ilex spp.	American Holly, Possum-haw, Inkberry, Gallberry	white	4-45'	bees, flies	X
April-May	moist to dry	sun to partial shade	Cornus spp.	Dogwood spp.	white, greenish yellow	15-30'	bees, beetles, flies	
April-June	moist to dry	sun to partial shade	Diospyros virginiana	Persimmon	yellow, male and female	30-60'	bees, butterflies, moths	X
March-April	moist to dry	sun to partial shade	Prunus spp.	Chickasaw Plum, Crabapple,	white	to 30'	bees, flies, beetles	
April-May	moist to wet	sun to partial shade	Halesia diptera var. diptera	Two Wing Silverbell	white	to 30'	bees, butterflies	
March-April	mesic, wet to submesic	shade to partial shade	Crataegus spp.	Hawthorne spp.	white	15-35'	butterflies, flies, beetles	X
April-June	moist	sun to shade	Magnolia spp.	Magnolias, Sweet Bay	pale yellow to cream	to 60'	bees, beetles	X
May	moist	sun	Photinia spp.	Chokeberry (red and black)	white	6-12'	bees, flies, beetles	
April	moist, acidic	partial shade	Rhododendron spp.	Native Azalea spp.	pink	10-15'	butterflies, hummingbirds	X
April-June	moist	shade to partial shade	Styrax spp.	Snowbell spp.	white	8-20'	bees, butterflies	
April-May	moist	shade to partial shade	Aesculus pavia	Red Buckeye	red, reddish-yellow	20-25'	hummingbirds, bees	
April-May	moist to wet	sun to shade	Viburnum spp.	Southern Arrowwood	white	to 16'	butterflies, bees, beetles, flies	

SPECIES RECOMMENDED FOR MANAGING EXISTING POLLINATOR ENHANCEMENT AREAS IN MISSISSIPPI

Flowering Dates	Soil	Sun	Botanical Name	Common Name	Color	Height	Visitation by Pollinator	Also a host
<b>Mid-Season Flowering</b>								
<b>Perennial Flowers</b>								
May-September	dry	sun	Dalea spp.	prairie clover	white, rose-purple	1-3'	bees, butterflies, beetles	X
May-September	dry	sun to partial shade	Coreopsis tinctoria	Golden Tickseed	yellow with red-brown centers	18-24"	butterflies, syrphid flies, bees	
May-September	dry	sun to partial shade	Echinacea purpurea	Purple Coneflower	purple, reddish purple, pink	12-48"	butterflies, hummingbirds	
May-August	dry	sun to partial shade	Gaillardia spp.	Blanket Flower	yellow, red, yellow and red	1-2'	butterflies	
May-June	dry to dry-mesic	sun to partial shade	Ruellia humilis	Wild Petunia	lavender blue to white	20-36"	butterflies, hummingbirds	
May-June	dry	sun to partial shade	Tephrosia virginiana	Virginia Goat's-rue	pink/yellow	8-28"	butterflies, hummingbirds	
May-September	moist to dry	sun to partial shade	Achillea spp.	Yarrow	white, light yellow	10-36"	bees, beetles, flies, butterflies	
May-June	moist to dry	sun to partial shade	Allium canadense	Wild Onion	violet	12-18"	bees	
May-June	moist to dry	partial shade	Dodecatheon meadia	Shooting Star	white, pink	6-20"	bees	
May-July	moist to dry	sun to partial shade	Dracopis spp.	Clasping Coneflower	yellow with red-brown centers	12-36"	bees, butterflies	
May-September	moist to dry	sun to partial shade	Monarda spp.	Beebalm, Wild Bergamot	pink, purple, reddish purple	12-48"	butterflies, bees, hummingbirds	
May-July	moist to dry	sun to partial shade	Opuntia humifusa	Prickly Pear	yellow	6'-6"	bees, beetles	
May-July	moist to dry	sun to partial shade	Penstemon spp.	Beardtongue	white to blue	1-3'	bees, hummingbirds	
May-September	moist to dry	sun to partial shade	Ratibida pinnata	Pinnate Prairie Coneflower or Greyhead Coneflower	yellow with red-brown centers	3-5'	butterflies, bees	
May-October	moist to dry	sun to partial shade	Rudbeckia spp.	Black-eyed Susan, Brown-eyed Susan	yellow, brown center	14-20"	bees, beetles, flies, butterflies	
May-July	moist	sun to partial shade	Apocynum cannabinum	Indian Hemp	white, greenish	24-36"	wasps, flies	
May-August	moist	sun	Asclepias syriaca	Common Milkweed	pink, purple, white	24-36"	butterflies, bees	X
May-November	moist to wet	partial shade to shade	Impatiens capensis	Jewel Weed	orange	3-5'	bees	
June-July	moist to wet	sun to partial shade	Desmanthus illinoisensis	Illinois Bundle Flower	white	2-18"	bees, butterflies, flies	
May-September	moist to wet	sun to partial shade	Hibiscus spp.	Rosemallow spp.	white to rose, deep red at base	5-7'	bees	
May-August	moist to wet	sun	Asclepias tuberosa	Butterfly Milkweed	orange to yellow	24"	butterflies, bees	X
May-October	wet to moist	sun to shade	Lobelia cardinalis	Cardinal Flower	red	1-5'	hummingbirds	
May-June	wet to inundation	sun to partial shade	Saururus cernuus	Lizard's-tail	white	36-48"	bees, flies	
<b>Vines</b>								
June-August	dry to dry-mesic	partial shade	Centrosema virginiana	Spurred Butterfly Pea	blue	2-3'	butterflies	
May-July	moist to dry	sun to partial shade	Passiflora incarnata	Passion Flower	blue	5-12'	hummingbirds, butterflies, bees	X
June-July	moist to dry	sun	Campsis radicans	Trumpet-creeper	orange	30-45'	hummingbirds, bees	
<b>Trees &amp; Shrubs</b>								
June-July	dry	sun to partial shade	Ceanothus americanus	New Jersey Tea	white	3-4'	hummingbirds, butterflies, beetles, bees, wasps, flies	X
May-June	dry to moist	sun to partial shade	Catalpa spp.	Catalpa	white	70'	bees	
May-June	mesic to moist	sun to partial shade	Gleditsia triacanthos	Honey Locust	greenish yellow	35-75'	bees	
June-July	moist to dry	sun to partial shade	Aralia spinosa	Devil's-walking-stick	white	12-15'	butterflies, bees, wasps, flies	
May-July	moist	partial shade	Hydrangea quercifolia	Oak-leaf Hydrangea	white	4-6'	flies, wasps	
May-June	moist	sun to partial shade	Symplocos tinctoria	Horse Sugar	yellow	15-35'	bees	
June-September	moist to wet	sun to partial shade	Cephalanthus occidentalis	Buttonbush	white	6-10'	bees, beetles, flies	
June-July	moist to wet	sun to partial shade	Rosa spp.	Swamp Rose, Carolina Rose, Climbing Rose	pink	5-7'	bees, flies, wasps, butterflies	
June-July	moist to wet	sun to partial shade	Sabal minor	Dwarf Palmetto	white	4-6'	bees	

SPECIES RECOMMENDED FOR MANAGING EXISTING POLLINATOR ENHANCEMENT AREAS IN MISSISSIPPI

Flowering Dates	Soil	Sun	Botanical Name	Common Name	Color	Height	Visitation by Pollinator	Also a host
<b>Late Flowering</b>								
<b>Perennial Flowers</b>								
July-Oct	dry	sun to partial shade	Chrysopsis mariana	Maryland Golden-aster	golden-yellow	12-18"	bees	X
August-Oct	dry	sun to partial shade	Eupatorium spp.	Boneset, Thoroughwort, Sweetscented Joe-Pye Weed	white	18-36"	butterflies, beetles, bees	
Sept-Oct	dry	sun to partial shade	Pityopsis graminifolia var. latifolia	Grass-leaved Golden-aster	yellow	8-15"	bees	
June-August	dry	sun to partial shade	Silphium astericus var. laevicaule	Rosin Weed	yellow	6-8'	butterflies, bees	
July-Oct	dry	sun to partial shade	Solidago spp.	Goldenrod	yellow	2-4'	butterflies, bees, beetles	X
August-Oct	dry to wet	sun	Helianthus spp.	Narrowleaf or Swamp, Woodland, Hairy Sunflowers	yellow	5-7'	butterflies, beetles, bees	
July-Sept	moist to mesic	sun	Liatris spicata	Dense Blazing Star	rosy-pink to purple	3-4'	butterflies, bees, hummingbirds	
July-August	moist to dry	sun to partial shade	Desmodium spp.	Ticktrefoil, Beggar Ticks, Stick Tights	pink to purple	18-30"	bees, butterflies	
August-October	moist to dry	sun to partial shade	Symphotrichum spp.	New England Aster, Blue Wood Aster, White Oldfield Aster	white, blue, lavender	18"-6'	butterflies, bees	X
Sept-Oct	moist	sun	Bidens aristosa	Beggar Ticks or Bur-marigold	yellow	24-36"	bees, beetles, flies, butterflies	
June-September	moist	sun to partial shade	Chamaecrista spp.	Partridge Pea (Lark)	yellow	18-30"	bees	
July-October	moist	sun to partial shade	Eupatoriadelphus spp.	Trumpet Weed or Joe Pye Weed	pink, lavender	to 8'	bees, butterflies, flies	
August-October	moist	sun to partial shade	Vernonia gigantea	Ironweed	purple	3-5'	bees, beetles, flies, butterflies	
July-Sept	moist to wet	sun	Asclepias incarnata	Swamp Milkweed	pink to rose	36-48"	butterflies, hummingbirds, bees, beetles, wasps, flies	X
Sept-Oct	moist to wet	sun	Helianthus maximiliani	Maximilian Sunflower	yellow	5-7'	butterflies, bees	
June-Aug	wet or innundated	sun to partial shade	Pontederia cordata	Pickerelweed	purple	1-3'	butterflies	