

Plant Enhancement Activity – PLT01 – Establish pollinator habitat



Enhancement Description

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

Land Use Applicability

Cropland, pastureland, rangeland and 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.

Criteria

Pollinator habitat areas must be at least ½ acre in size for each 40 acres of cropland, pastureland, rangeland or forest land. Where the applicable land use is greater than 40 acres, the 0.5 acre habitat areas must be interspersed in the larger land use areas. For example, for an 80 acre cropland parcel, the required 1 acre of habitat should not be located in one corner of the 80 acre field. The pollinator habitat areas must include a minimum of nine flowering plant species including forbs, legumes, vines, shrubs, and/or trees.

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. Plants that produce toxic nectar will not be planted.
3. Site preparation and plant establishment shall be accomplished according to the appropriate NRCS conservation practice and specifications. 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.
4. Insecticides and herbicides should not be used in the habitat planting area. Even natural herbicides and botanical insecticides can harm bees and other pollinators. If adjacent crop areas are treated 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 minimizing drift to the adjacent habitat,



- c. Apply active ingredients in the evening when most insect pollinators are not active.
5. 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 least damaging method.
6. Any other use of the pollinator habitat area must not compromise its intended purpose.

Documentation Requirements

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

Michigan Supplement

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The following plants are suitable for pollinator habitat in the specified regions:

Northern Lower Peninsula and Upper Peninsula

Trees & Shrubs

<u>Scientific Name</u>	<u>Common Name</u>
<i>Amelanchier arborea</i>	Downy Serviceberry
<i>Arctostaphylos uvaursi</i>	Kinnikinnick
<i>Cephalanthus occidentalis</i>	Common Buttonbush
<i>Cornus canadensis</i>	Bunchberry Dogwood
<i>Crataegus crus-galli</i>	Cockspur Hawthorn
<i>Dasiphora fruticosa</i>	Shrubby Cinquefoil
<i>Gaultheria procumbens</i>	Eastern Teaberry
<i>Hamamelis virginiana</i>	American Witch-Hazel
<i>Ilex verticillata</i>	Common Winterberry
<i>Prunus virginiana</i>	Chokecherry
<i>Rhus typhina</i>	Staghorn Sumac
<i>Sambucus canadensis</i>	Black Elderberry
<i>Sorbus americana</i>	American Mountain Ash
<i>Tilia americana</i>	American Basswood
<i>Vaccinium angustifolium</i>	Low Sweet Blueberry
<i>Viburnum acerifolium</i>	Mapleleaf Viburnum

Wildflowers

<u>Scientific Name</u>	<u>Common Name</u>
<i>Aconitum uncinatum</i>	Eastern Monkshood
<i>Actaea rubra</i>	Red Baneberry
<i>Aquilegia canadensis</i>	Red Columbine
<i>Campanula rotundifolia</i>	Harebell
<i>Caltha palustris</i>	Marsh Marigold
<i>Chelone glabra</i>	White Turtlehead
<i>Doellingeria umbellata</i>	Flat-Topped Aster
<i>Eupatorium maculatum</i>	Joe-Pye Weed
<i>Gentiana andrewsii</i>	Closed Bottle Gentian
<i>Geum rivale</i>	Water Aven
<i>Hepatica nobilis var. acuta</i>	Sharplobe Hepatica

<i>Iris versicolor</i>	Harlequin Blueflag
<i>Monarda fistulosa</i>	Wild Bergamont
<i>Packera aurea</i>	Golden Ragwort
<i>Penstemon digitalis</i>	Tall Beardstongue
<i>Physostegia virginiana</i>	Obedient Plant
<i>Rudbeckia hirta</i>	Black-eyed Susan
<i>Sisyrinchium angustifolium</i>	Narrow Leaf Blue-Eyed Grass
<i>Trillium erectum</i>	Red Trillium
<i>Veratrum viride</i>	Green False Hellebore
<i>Viola canadensis</i>	Canadian White Violet
<i>Zizia aurea</i>	Golden Alexanders

Vines

<u>Scientific Name</u>	<u>Common Name</u>
<i>Celastrus scandens</i>	American Bittersweet
<i>Linnaea borealis</i>	Twinflower
<i>Lonicera dioica</i>	Limber Honeysuckle
<i>Mitchella repens</i>	Partridgeberry

Southern Lower Peninsula

Trees & Shrubs

<u>Scientific Name</u>	<u>Common Name</u>
<i>Acer</i> spp.	maples
<i>Amelanchier</i> spp.	serviceberrys
<i>Sassafras albidum</i>	Sassafras
<i>Cercis canadensis</i>	Eastern Redbud
<i>Viburnum</i> spp.	viburnums
<i>Catalpa speciosa</i>	Northern Catalpa
<i>Vaccinium</i> spp.	blueberrys
<i>Sambucus</i> spp.	elderberrys
<i>Lindera benzoin</i>	Spicebush
<i>Prunus pennsylvanica</i>	Black Cherry
<i>Rhus</i> spp.	sumacs
<i>Aronia melanocarpa</i>	Black Chokeberry
<i>Cornus</i> spp.	dogwood
<i>Physocarpus opulifolius</i>	Eastern Ninebark

Wildflowers

<u>Scientific Name</u>	<u>Common Name</u>
<i>Aquilegia canadensis</i>	Red Columbine
<i>Sanguinaria canadensis</i>	Bloodroot
<i>Viola</i> spp.	violets
<i>Erigeron</i> spp.	daisy fleabanes
<i>Erythronium americanum</i>	Trout Lily
<i>Eupatorium</i> spp.	joe-pye weeds
<i>Gentiana</i> spp.	gentians
<i>Helianthus</i> spp.	sunflowers
<i>Iris</i> spp.	irises
<i>Monarda</i> spp.	beebalm
<i>Penstemon</i> spp.	beardtongue
<i>Phlox</i> spp.	phlox
<i>Rudbeckia</i> spp.	black-eyed Susan
<i>Solidago</i> spp.	goldenrods
<i>Packera</i> spp.	ragworts
<i>Trillium</i> spp.	trilliums
<i>Tradescantia virginiana</i>	Spiderwort
<i>Symphotrichum</i> spp.	asters
<i>Lobellia</i> spp.	lobelias
<i>Coreopsis</i> spp.	tickseeds

Vines

<u>Scientific Name</u>	<u>Common Name</u>
<i>Campsis radicans</i>	Trumpet Creeper
<i>Lonicera sempervirens</i>	Trumpet Honeysuckle
<i>Clematis virginiana</i>	Virgin's Bower
<i>Parthenocissus quinquefolia</i>	Virginia Creeper
<i>Vitis</i> spp.	grapes

Refer to eFOTG Section II, Folder I: Michigan Native Plant Producers