

| Native Plants of Ohio                 |   |                               |            | Compiled by Hope Taft and Debra Knapke - 1/2020; resources-see last page  |                    |                           |   |
|---------------------------------------|---|-------------------------------|------------|---|--------------------|---------------------------|---|
| common name                           | Scientific name   | family                        | bloom time | growing conditions/habitat  | flower color       | Heritage Garden site      | pollinators & likely pollinators  |
| <b>woody plants (including vines)</b> |   |                               |            |   |                    |                           |   |
| American cranberry ♥                  | <i>Vaccinium macrocarpon</i>  | heath [Ericaceae]             | may-june   | bogs - acidic conditions required   | pink               | bog                       | bees: bumble (buzz pollination; most effective) leaf-cutter, honey  |
| blackberry ♥                          | <i>Rubus allegheniensis</i>   | rose [Rosaceae]               | may-july   | woods: edges, fields  | white              | Appalachian               | LOTS: long- & short-tongued bees:honey, bumble, little carpenter, mason, green metallics, & andrenid; wasps, sm. to med. butterflies, skippers                          |
| black chokeberry ♥                    | <i>Aronia melanocarpa</i>   | rose [Rosaceae]               | may        | low woods, swamps, bogs & moist thickets; occasionally in dry upland      | white              | bog                       | can self-pollinate; ?? small bees; "mason & andrenid spp. bees are common visitors of spring-blooming shrubs in the Rose family"  |
| bladdernut ♥                          | <i>Staphylea trifolia</i>   | bladdernut [Staphyleaceae]    | april-may  | woods: mesic to moist floodplain, riverbanks, & thickets                  | white              | rain garden border        | bees: honey, bumble, halictid, andrenid; flies: syrphid, dance, & giant bee fly   |
| blueberry, highbush ♥                 | <i>Vaccinium corymbosum</i>   | heath [Ericaceae]             | may-june   | forested bogs, lake & stream borders, & sandy swamps                      | white              |                           | bees: bumble, andrenid, & honey   |
| buttonbush ♥                          | <i>Cephalanthus occidentalis</i>  | madder [Rubiaceae]            | june-aug   | streamsides, pond lake edges, floodplains                                 | white              | dogwood glade, bog        | bees: honey, bumble, cuckoo, long-horned, leaf-cutting, green metallic; various wasps; flies: thick-headed, syrphid; butterflies, & skippers; ruby-throated hummingbird |
| elderberry ♥                          | <i>Sambucus canadensis</i>  | honeysuckle [Caprifoliaceae]  | june-july  | woods: edges, pond/stream edges, swamps, soils: wet                       | white              | meadow, medicinal         | ?? bees: honey, little carpenter, halictid; flies: syrphid, bee, muscid, etc.; beetles: long-horned, tumbling flower, etc.  |
| meadowsweet ♥                         | <i>Spiraea alba</i> var. <i>latifolia</i> (?? syn. <i>Spiraea latifolia</i> ) | rose [Rosaceae]               | june-sept  | woods: moist, fields/old meadows, soil: rocky (under powerlines)          | pnk-red            | sedge meadow              | bees: bumble, & others; wasps; adult long-horned beetles; & Virginia ctenucha moth  |
| mountain laurel                       | <i>Kalmia latifolia</i>   | heath [Ericaceae]             | may-june   | woods: oak-hemlock, soil: rocky-sandy, acid soil                          | pnk-red            | Appalachian               | bees: bumble & other insects; pollen is spring-loaded; flower will self-pollinate if not insect-pollinated  |
| pasture rose ♥                        | <i>Rosa carolina</i>  | rose [Rosaceae]               | june-july  | woods: open, pastures, soil: dry-rocky-sandy                              | pnk-red            | blue grass region         | 1st - long-tongued bees: bumble, anthophorine, & digger. 2nd - green metallic bees, syrphid flies, & various beetles  |
| pawpaw ♥                              | <i>Asimina triloba</i>  | custard-apple [Annonaceae]    | april      | woods: well-drained, deep, fertile bottom-land & upland habitat           | purple             | Appalachian woodland      | flies: flesh, blow, & others; ?? carrion beetles, too. petals & scent resemble rotting carrion.   |
| poison ivy                            | <i>Toxicodendron radicans</i>   | sumac [Anacardiaceae]         | may-june   | woods: rich, streambanks, fencerows, disturbed areas                      | grn-brwn           |                           | ?? small bees & flies   |
| prairie rose ♥                        | <i>Rosa setigera</i>  | rose [Rosaceae]               | june-july  | woods: open, thickets: wet, roadsides                                     | pnk-red            | herb garden walls         | 1st - bees: honey, bumble, anthophorine, miner, large leaf-cutting bees, & halictine; 2nd - syrphid flies   |
| red chokeberry ♥                      | <i>Aronia arbutifolia</i>   | rose [Rosaceae]               | april      | thickets: wet & dry, hillsides: dry/wet, swampy areas                     | white              |                           | can self-pollinate; ?? small bees; "mason & <i>Andrena</i> spp. bees are common visitors of spring-blooming shrubs in the Rose family"                                  |
| spicebush ♥                           | <i>Lindera benzoin</i>  | laurel [Lauraceae]            | april      | woods: moist bottomlands, ravines, valleys, & streamsides                 | yel                | blackhand outcrop         | small bees & flies; flowers are perfect or dioecious, need at least 2 plants  |
| spotted wintergreen ♥                 | <i>Chimaphila maculata</i>  | pyrola [Pyrolaceae]           | june-aug   | woods: dry-conifers-oaks, soil: sandy, acid soil                          | white              |                           | cross-pollinated 1st - bumblebees, then honeybees   |
| strawberry bush; hearts a-bustin ♥    | <i>Euonymus americanus</i>  | spindle tree [Celastraceae]   | may-june   | woods: slopes, moist understory, low sandy woods, ravines & streambanks   | grn/yel; fruit RED | Appalachian               | ?? not well-documented: bees suggested "mason & <i>rena</i> spp. bees are common visitors of spring-blooming shrubs in the Rose family"                                 |
| steplebush                            | <i>Spiraea tomentosa</i>  | rose [Rosaceae]               | july-sept  | thickets: wet, sandy, prairies: wet, sandy, sandy marshes & bogs          | pink               | ponds, sedge meadow       | bees, flies, and beetles& rare Karner Blue butterfly; produces a lot of pollen, small amount of nectar  |
| swamp rose ♥                          | <i>Rosa palustris</i>   | rose [Rosaceae]               | june-aug   | lake shores, swamps/marshes, soil: wet                                    | pnk-red            | fen                       | 1st - bumblebees & other long-tongued bees. 2nd - halictid bees, syrphid flies, tumbling flower beetles, & other beetles. No nectar, only pollen                        |
| trailing arbutus                      | <i>Epigaea repens</i>   | heath [Ericaceae]             | march-may  | woods: dry-rocky, (evergreen), acid soil                                  | pnk-red            |                           | bumblebees  |
| trumpet creeper                       | <i>Campsis radicans</i>   | bignonia [Bignoniaceae]       | july-sept  | woods: moist, thickets, roadsides - very vigorous grower!!                | pnk-red            | pergola, bluegrass region | 1st - ruby-throated Hummingbird & sphinx moths. 2nd - Baltimore & Orchard Orioles, bees: bumble, honey. 3rd - halictid bees; ants; flies                                |
| trumpet honeysuckle ♥                 | <i>Lonicera sempervirens</i>  | honeysuckle [Caprifoliaceae]  | may-july   | woods: edges, thickets, roadsides   | pnk-red            | Allegheny                 | cross-pollinated by the ruby-throated hummingbird   |
| virgin's-bower                        | <i>Clematis virginiana</i>  | buttercup [Ranunculaceae]     | july-sept  | thickets: moist, streambanks, floodplains: moist - very vigorous grower!! | white              | pergola, bluegrass region | staminate flowers attracts halictid bees, wasps, & various flies. No information for pistillate flowers   |
| <b>herbaceous plants</b>              |   |                               |            |   |                    |                           |   |
| American columbo ♥(syn. Swertia)      | <i>Frasera carolinensis</i>   | gentian [Gentianaceae]        | june-july  | woods: dry-open, meadows, roadside banks                                  | grn-brwn           | cedar glade               | long-tongued bees: honey, bumble, etc.  |
| American ginseng ♥                    | <i>Panax quinquefolius</i>  | ginseng [Araliaceae]          | july-aug   | woods: rich soil - difficult to establish                                 | grn-brwn           | medicinal                 | ?? small bees & various flies visit the flowers for nectar or pollen  |
| arrow-leaved aster (syn. Aster) ♥     | <i>Symphotrichum sagittifolius</i>  | aster [Asteraceae]            | aug-oct    | woods, streambanks  | bl-pur             | woodland                  | long-tongued & short-tongued bees; flies: syrphid & bee; wasps; occasional butterflies or skippers  |
| ashy sunflower ♥                      | <i>Helianthus mollis</i>  | aster [Asteraceae]            | july-sept  | woods: open, prairie fields, soils: dry, hi quality habitat               | yel-org            | prairie                   | bees: bumble, miner, large leaf-cutting, cuckoo, green metallic, other halictids; bee flies & butterflies   |
| biennial gaura ♥                      | <i>Gaura biennis</i>  | evening-primrose [Onagraceae] | june-oct   | fields, meadows, roadsides, gravelly embankments                          | white              |                           | long-tongued bees (espec. bumble) & nectar-seeking moths  |
| black-eyed Susan ♥                    | <i>Rudbeckia hirta</i>  | aster [Asteraceae]            | june-oct   | fields: dry, roadsides  | yel-org            | cedar glade               | wide range: bees & flies; some wasps, butterflies, & beetles  |
| blazing-star ♥                        | <i>Liatris spicata</i>  | aster [Asteraceae]            | july-sept  | prairies: wet, remnants   | pnk-red            | prairie, fen              | bees: bumble, long-horned, leaf-cutting; butterflies, & skippers  |
| bloodroot ♥                           | <i>Sanguinaria canadensis</i>   | poppy [Papaveraceae]          | march-may  | woods: rich   | white              | woodland                  | bees: honey, bumble, little carpenter, halictid, & andrenid   |

|                                     |                                    |                               |            |  |          |                         |   |
|-------------------------------------|------------------------------------|-------------------------------|------------|--|----------|-------------------------|---|
| blue cohosh ▼                       | <i>Caulophyllum thalictroides</i>  | barberry [Berberidaceae]      | april-may  | woods: rich-moist, mixed hardwoods   | grn-brwn | woodland, medicinal     | bees: small halictid & bumble; flies: syrphid, tachinid etc.; parasitoid wasps  |
| blue vervain ▼                      | <i>Verbena hastata</i>             | vervain [Verbenaceae]         | july-sept  | stream , lake edges, fields: wet, ditches, disturbed wet areas                               | bl-pur   | sedge meadow            | long-tongued & short-tongued bees; wasps; flies; small butterflies, skippers, & moths   |
| blue-eyed grass ▼                   | <i>Sisyrinchium angustifolium</i>  | iris [Iridaceae]              | may-july   | woods: open, meadows: wet, roadsides   | bl-pur   | cedar glade             | bees: halictid & green metallic bees, less freq. bumble; bee & syrphid flies feed on pollen or suck nectar  |
| blue-eyed Mary ▼                    | <i>Collinsia verna</i>             | snapdragon [Scrophulariaceae] | april-june | woods: rich-low, streamsides: open, floodplains: wooded                                      | bl-pur   | woodland                | 1st - bees: honey, bumble, & little carpenter, long-horned, & mason; 2nd - dance flies, giant bee fly, butterflies, & skippers  |
| blue-stemmed goldenrod ▼            | <i>Solidago caesia</i>             | aster [Asteraceae]            | aug-oct    | wood: rich-open, thickets,   | yel-org  | Appalachian             | short-tongued bees, wasps, & flies  |
| bluets, Quaker ladies ▼             | <i>Houstonia caerulea</i>          | madder [Rubiaceae]            | april-june | woods: edges, fields: grassy, roadsides, soil-poor   | bl-pur   | alvar                   | bees: little carpenter, green metallic & other halictids; bee flies, & small butterflies  |
| boneset ▼                           | <i>Eupatorium perfoliatum</i>      | aster [Asteraceae]            | july-oct   | streambanks: wet, swamps, low areas  | white    | sedge meadow, fen       | bees, flies, wasps, butterflies, & beetles; many unusual flies & wasps visit due to very accessible nectar  |
| bottle gentian ▼                    | <i>Gentiana andrewsii</i>          | gentian [Gentianaceae]        | aug-oct    | swamps-bogs, meadows: wet  | bl-pur   | sedge meadow            | bumble primary pollinators: can force past the closed corolla   |
| bur-cucumber                        | <i>Sicyos angulatus</i>            | gourd [Cucurbitaceae]         | aug-sept   | thickets: wet, river banks, floodplains, disturbed areas-moist                               | grn-brwn | Appalachian             | long-tongued bees-honey & bumble- sphecid & vespids wasps, & various flies.   |
| butterfly-weed ▼                    | <i>Asclepias tuberosa</i>          | milkweed [Asclepiadaceae]     | june-sept  | fields: dry, roadsides, hillsides  | yel-org  | oak openings            | honey, digger, leaf-cutting, & halictid bees; thread-waisted wasps & sphecid wasps, & butterflies: fritillaries, swallowtails & monarch; ruby-throated hummingbird  |
| calico aster (syn. Aster) ▼         | <i>Symphotrichum lateriflorum</i>  | aster [Asteraceae]            | aug-oct    | woods: open, thickets, fields  | white    |                         | short-tongued bees, wasps, & flies; less common: long-tongued bees, small butterflies, skippers, beetles, & plant bugs  |
| Canada anemone                      | <i>Anemone canadensis</i>          | buttercup [Ranunculaceae]     | may-july   | woods: damp-open, shore: sandy, meadows: wet   | white    | prairie, meadow         | small bees: andrenid, halictid collect pollen & syrphid flies eat it  |
| American germander ▼                | <i>Teucrium canadense</i>          | mint [Lamiaceae]              | june-aug   | stream margins, marshes, ditches: wet, low wet areas   | pnk-red  |                         | long-tongued bees-most important; other bees: bumble, honey, anthophorine, cuckoo, miner, & leaf-cutting  |
| Canada goldenrod                    | <i>Solidago canadensis</i>         | aster [Asteraceae]            | aug-sept   | thickets, fields, roadsides  | yel-org  |                         | long-tongued & short-tongued bees, wasps, flies, beetles; butterflies & moths   |
| Canada lily ▼                       | <i>Lilium canadense</i>            | lily [Liliaceae]              | june-aug   | streamsides, swamps, meadows: moist  | yel-org  |                         | large butterflies: great spangled fritillary & swallowtail butterflies  |
| Canadian burnet ▼                   | <i>Sanguisorba canadensis</i>      | rose [Rosaceae]               | july-oct   | swamps-bogs, meadows: wet  | white    | fen                     | ?? little known: bees (e.g. honeybee) & probably other insects  |
| cardinal flower ▼                   | <i>Lobelia cardinalis</i>          | bellflower [Campanulaceae]    | july-sept  | streambanks, swamps-marshes, ditches: wet, soil: wet   | pnk-red  |                         | ruby-throated hummingbird; swallowtail butterflies: black, spicebush, & pipevine; sometimes larger bumble   |
| celandine-poppy ▼                   | <i>Stylophorum diphyllum</i>       | poppy [Papaveraceae]          | march-may  | woods: rich-moist, floodplains: wooded, cliffs: moist  | yel-org  | woodl&                  | ?? little known; flowers provide only pollen: poss. metallic wood-boring beetles; various bees & flies  |
| clammy ground-cherry                | <i>Physalis heterophylla</i>       | nightshade [Solanaceae]       | june-sept  | woods: edges, fields-pastures, roadsides, disturbed areas                                    | yel-org  |                         | short-tongued bees: plasterer; some halictid & panurginus   |
| common blue violet ▼                | <i>Viola sororia</i>               | violet [Violaceae]            | march-june | woods: moist-open, floodplains: wooded, fields-lawns, slopes: wooded, disturbed grassy areas | bl-pur   | woodland, dogwood glade | not often visited by insects (cleistogamous flowers); sometimes attract bees, skippers, & other insects   |
| common cattail                      | <i>Typha latifolia</i>             | cattail [Typhaceae]           | may-july   | lake shore/pond edges, marshes, ditches: wet   | grn-brwn | pond                    | wind pollinated   |
| common arrowhead ▼                  | <i>Sagittaria latifolia</i>        | water-plantain [Alismataceae] | july-sept  | streams, slow moving pond/lake, swamps: shallow water  | white    | ponds                   | bees: honey, bumble, halictid bees; wasps; flies: syrphid, tachinid; butterflies, skippers, & beetles   |
| common cinquefoil ▼                 | <i>Potentilla simplex</i>          | rose [Rosaceae]               | april-june | woods: dry, fields   | yel-org  | headlands sanddune      | small bees: mason, small carpenter, nomadine cuckoo, halictid; & flies: syrphid, tachinid, blow, etc.; few wasps, skippers, & butterflies   |
| common evening-primrose             | <i>Oenothera biennis</i>           | evening-primrose [Onagraceae] | july-oct   | fields: dry-open, roadsides, disturbed areas   | yel-org  | meadow                  | moths, espec. sphinx. 2nd - ruby-throated hummingbird, bees: honey, bumble, primrose miner  |
| common milkweed ▼                   | <i>Asclepias syriaca</i>           | milkweed [Asclepiadaceae]     | june-aug   | riverbanks, fields: open, roadsides, disturbed areas   | pnk-red  | prairie, Appalachian    | larger butterflies (monarch), predatory wasps, & long-tongued bees most likely pollinators; others: short-tongued bees, milkweed plant bugs, & moths (sphinx moths)   |
| common ragweed                      | <i>Ambrosia artemisiifolia</i>     | aster [Asteraceae]            | aug-oct    | fields, roadsides, disturbed areas, soils: dry   | grn-brwn |                         | primarily wind-pollinated, but honey have collected pollen  |
| common sneezeweed; Helen's flower ▼ | <i>Helenium autumnale</i>          | aster [Asteraceae]            | aug-oct    | streambanks, swamps, meadows: wet  | yel-org  |                         | long-tongued bees: honey, bumble, long-horned bees, cuckoo bees, & leaf-cutting bees; other insects feed on nectar  |
| common sunflower [W-US] ▼           | <i>Helianthus annuus</i>           | aster [Asteraceae]            | july-sept  | fields, roadsides, disturbed areas   | yel-org  |                         | 1st - long-tongued bees: honeybee, bumble, digger, & leaf-cutting; others: short-tongued bees: halictid, alkali, andrenid. Some bees are specialists 2nd - bee flies, butterflies, skippers, goldenrod soldier beetle |
| compass-plant ▼                     | <i>Silphium laciniatum</i>         | aster [Asteraceae]            | july-sept  | prairie  | yel-org  | prairie                 | long-tongued bees are primary pollinators: bumble, miner bees, larger leaf-cutting bees. 2nd - short-tongued halictine bees & syrphid flies, but are less effective pollinators                                       |
| crested dwarf iris ▼                | <i>Iris cristata</i>               | iris [Iridaceae]              | april-may  | woods: rich, ravines, hillsides: wooded, acid soil   | bl-pur   | medicinal garden        | ?? possibly long-tongued bees   |
| crooked-stemmed aster (syn. Aster)  | <i>Symphotrichum prenanthoides</i> | aster [Asteraceae]            | aug-oct    | woods, thickets: wet, streambanks, fields  | bl-pur   |                         | ?? native bees, honey bees: less specific information   |
| Culver's root ▼                     | <i>Veronicastrum virginicum</i>    | snapdragon [Scrophulariaceae] | july-oct   | woods, thickets, meadows: moist, roadsides   | white    | prairie, alvar          | long-tongued & short-tongued bees: honey, bumble, mason, green metallic, masked; other insects visit for nectar, but do not pollinate   |

|                                   |                                |                               |            |   |          |                   |  |
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| cup-plant ▼                       | <i>Silphium perfoliatum</i>    | aster [Asteraceae]            | july-sept  | woods: moist, streambanks, floodplains  | yel-org  | meadow            | 1st - long-tongued bees, butterflies, & skippers; some short-tongued bees, wasps, bee flies are occasional pollinators   |
| cut-leaved toothwort ▼            | <i>Cardamine concatenata</i>   | mustard [Brassicaceae]        | april-may  | woods rich  | white    | woodland          | 1st - long-tongued & short-tongued bees: honey, bumble, mason, cuckoo, halictid, & andrenid. 2nd - early spring butterflies & giant bee fly  |
| daisy fleabane                    | <i>Erigeron annuus</i>         | aster [Asteraceae]            | june-oct   | fields, roadsides, disturbed areas  | white    |                   | bees: halictid, masked; wasps: sphecid & vespid; flies: syrphid, soldier, blow, tachinid, flesh: plant bugs, & misc. beetles   |
| downy false foxglove              | <i>Aureolaria virginica</i>    | snapdragon [Scrophulariaceae] | june-sept  | woods: dry-open, soil: sandy, acid soil   | yel-org  |                   | 1st - bumble. 2nd - ruby-throated hummingbird; bees: long-homed, leaf-cutting, halictid; & syrphid flies   |
| downy lobelia                     | <i>Lobelia puberula</i>        | bellflower [Campanulaceae]    | july-oct   | woods: edges-clearings roadsides  | bl-pur   |                   | ?? small bees  |
| downy wood-mint ▼                 | <i>Blephilia ciliata</i>       | mint [Lamiaceae]              | june-july  | woods: openings-edges, thickets, fields, roadsides; alkaline soil                     | bl-pur   | cedar glade       | long-tongued & short-tongued bees, bee flies, syrphid flies, butterflies, & skippers   |
| downy yellow violet ▼             | <i>Viola pubescens</i>         | violet [Violaceae]            | april-may  | woods: moist to dry   | yel-org  | woodland          | 1st - bees: mason, little carpenter, anthophorid, halictid, & andrenid; bee flies; small butterflies, & skippers   |
| drawf larkspur ▼                  | <i>Delphinium tricorne</i>     | buttercup [Ranunculaceae]     | april-may  | woods: rich, alkaline soil  | bl-pur   |                   | 1st - long-tongued bees: bumble, anthophorid, & miner bees; 2nd - ruby-throated hummingbird, giant bee fly, swallowtail butterflies, skippers, & sphinx moths  |
| drooping trillium ▼               | <i>Trillium flexipes</i>       | lily [Liliaceae]              | april-may  | woods: rich, alkaline soil  | white    | woodland          | ?? probable: gnats & small flies   |
| Dutchman's-breeches ▼             | <i>Dicentra cucullaria</i>     | poppy [Papaveraceae]          | april-may  | woods: rich, floodplains, alkaline soil   | white    | woodland          | 1st - long-tongued bees: honey, bumble, mason & anthophorid. 2nd - short-tongued & andrenid bees, giant bee fly  |
| dwarf iris ▼                      | <i>Iris verna</i>              | iris [Iridaceae]              | april-may  | woods: oak-pine, soil: dry-sandy, acid soil   | bl-pur   | medicinal garden  | ?? bees; scant information   |
| early meadow-rue ▼                | <i>Thalictrum dioicum</i>      | buttercup [Ranunculaceae]     | april-may  | woods moist rich  | grn-brwn | fen               | wind pollinated  |
| eastern prickly-pear cactus       | <i>Opuntia humifusa</i>        | cactus [Cactaceae]            | june-july  | prairie dunes, soil: sandy-rocky  | yel-org  | oak openings      | long-tongued & short-tongued: bumble, large carpenter, digger, leaf-cutting, halictid, & plasterer; larger bees primary cross-pollinators  |
| enchanter's nightshade            | <i>Circaea lutetiana</i>       | evening-primrose [Onagraceae] | june-aug   | woods: rich, floodplains: wooded  | white    | Appalachian       | small bees: halictid & little carpenter; syrphid & bee flies   |
| false rue anemone (syn. Isopyrum) | <i>Enemion biternatum</i>      | buttercup [Ranunculaceae]     | april-may  | woods: rich, thickets, alkaline soil  | white    |                   | ?? flowers attract medium- to small-sized bees & flies primarily; the bees collect pollen, the flies feed on pollen.   |
| field thistle                     | <i>Cirsium discolor</i>        | aster [Asteraceae]            | july-oct   | woods: edges, fields, disturbed areas   | bl-pur   | sedge meadow      | 1st: bees: bumble, digger, leaf-cutting. 2nd - butterflies: monarchs, fritillaries, painted ladies, swallowtails, & sulfurs  |
| fire pink ▼                       | <i>Silene virginica</i>        | pink [Caryophyllaceae]        | may-june   | woods: slopes-rich, banks: rocky, hillsides   | pnk-red  |                   | ?? probably: ruby-throated hummingbird & various large butterflies   |
| fireweed (syn. Epilobium)         | <i>Chamerion angustifolium</i> | evening-primrose [Onagraceae] | june-aug   | fields: open-clearings, roadsides, areas burned over                                  | pnk-red  |                   | 1st - long-tongued bees: bumble, leafcutting. 2nd - short-tongued bees & syrphid flies   |
| flat-topped goldenrod             | <i>Euthamia graminifolia</i>   | aster [Asteraceae]            | aug-oct    | thickets, streambanks, fields: moist, roadsides                                       | yel-org  | alvar             | LOTS: long-tongued bees, short-tongued bees, wasps, flies, butterflies, moths, & beetles   |
| flowering spurge ▼                | <i>Euphorbia corollata</i>     | spurge [Euphorbiaceae]        | june-sept  | fields: prairie-openings, roadsides   | white    | prairie           | bees: halictid, masked; wasps: crabronid, paper, five-banded tiphiid, sphecid, cuckoo; flies: syrphid, bee, tachinid, flesh, muscid; small butterflies: Karner blue!   |
| foam flower ▼                     | <i>Tiarella cordifolia</i>     | saxifrage [Saxifragaceae]     | april-may  | woods: rich   | white    | woodland          | ?? bees, butterflies, & syrphid flies; possible moth association   |
| foxglove beardtongue ▼            | <i>Penstemon digitalis</i>     | snapdragon [Scrophulariaceae] | may-july   | woods: openings, old fiels, roadsides   | white    | cedar glade       | 1st - long-tongued bees: honey, bumble, anthophorine, miner, mason, & large leaf-cutting. 2nd - halictid bees, butterflies, sphinx moths, & hummingbirds   |
| fragrant waterlily ▼              | <i>Nymphaea odorata</i>        | water-lily [Nymphaeaceae]     | june-sept  | ponds, water: shallow-quiet   | white    | ponds             | 1st - small bees - halictid, some are specialist of waterlilies. 2nd - various flies & beetles   |
| fringed gentian ▼                 | <i>Gentianopsis crinita</i>    | gentian [Gentianaceae]        | sept-oct   | woods: openings-wet, marshy areas, meadows: moist, slopes: wet-eroding, alkaline soil | bl-pur   | alvar, fen        | ?? 1st - bumblebees; scant information   |
| fringed milkwort                  | <i>Polygala paucifolia</i>     | milkwort [Polygalaceae]       | may-june   | woods: rich-moist-openings;slopes: rocky  | pnk-red  |                   | two flowers: one is self-pollinating, other is pollinated by bumblebees; pollen is placed on bumblebee by flower movement  |
| garden phlox ▼                    | <i>Phlox paniculata</i>        | phlox [Polemoniaceae]         | july-sept  | woods: moist, thickets, stream banks  | pnk-red  | meadow            | butterflies, skippers, & moths: hummingbird & sphinx   |
| giant ragweed                     | <i>Ambrosia trifida</i>        | aster [Asteraceae]            | july-oct   | floodplains, roadside ditches, disturbed areas: moist                                 | grn-brwn |                   | wind pollinated, but honeybees visit to gather pollen  |
| goatsbeard ▼                      | <i>Arunus dioicus</i>          | rose [Rosaceae]               | may-july   | woods: rich-moist, ravines, roadside: mois banks-wooded                               | white    | dogwood glade     | butterflies; host plant for the dusky azure butterfly  |
| golden Alexanders ▼               | <i>Zizia aurea</i>             | parsley [Apiaceae]            | may-june   | woods: moist, thickets, floodplains, swamps   | yel-org  | prairie, woodland | self-pollinates; long-tongued bees: bumbles, cuckoo & short-tongued bees: green metallic, masked, andrenid; wasps: eumenine, spider, ichneumonid, & crabronine; flies; sm. butterflies & beetles                     |
| golden ragwort (syn. Senecio) ▼   | <i>Packera aureus</i>          | aster [Asteraceae]            | april-july | woods: moist, swamps, meadows: wet  | yel-org  | Appalachian       | 1st - small bees: little carpenter, cuckoo, & var. halictid; & flies: syrphid & tachinid   |
| goldenseal ♥♥ endangered          | <i>Hydrastis canadensis</i>    | buttercup [Ranunculaceae]     | april-may  | woods: rich-deep, streambaks: shades, slopes: wooded                                  | grn-brwn | woodland          | 1st - halictid & masked bees; 2nd - syrphid flies & larger bees  |
| gray goldenrod; field goldenrod ▼ | <i>Solidago nemoralis</i>      | aster [Asteraceae]            | aug-oct    | woods: dry-open   | yel-org  | alvar             | bees: long-tongued - honey, little carpenter, & short-tongued - halictid, plasterer, & andrenid (oligoleges); sphecid & vespid wasps, flies: syrphid, tachinid, flesh, blow, & muscid; butterflies, moths, & beetles |
| gray-headed coneflower ▼          | <i>Ratibida pinnata</i>        | aster [Asteraceae]            | july-oct   | woods: edges, prairie/prairie remnants, roadsides, alkaline soil                      | yel-org  | prairie           | 1st - bees: Epeoline cuckoo, large leaf-cutting, green metallic, & other Halictine 2nd - wasps, flies, small butterflies, & beetles  |

|  |  |                                |             |  |          |                             |   |
|--|--|--------------------------------|-------------|--|----------|-----------------------------|---|
| great blue lobelia ▼   | <i>Lobelia siphilitica</i>                       | bellflower [Campanulaceae]     | july-oct    | woods: wet, streambanks, roadsides, ditches: wet, low-damp areas       | bl-pur   | dogwood glade, sedge meadow | 1st - bumble & other long-tongued bees. 2nd - ruby-throated hummingbird & large butterflies   |
| green dragon ▼   | <i>Arisaema dracontium</i>                       | arum [Araceae]                 | may-june    | woods: rich-moist-low, streambanks                                     | grn-brwn | woodland                    | simple flies (Nematocera), particularly fungus gnats  |
| green-headed coneflower ▼  | <i>Rudbeckia laciniata</i>                       | aster [Asteraceae]             | july-sept   | streambanks, floodplains, soils: rich-moist                            | yel-org  | prairie                     | long-tongued & short-tongued bees, predatory wasps, butterflies, skippers, moths, & various flies   |
| hairy beardstongue ▼   | <i>Penstemon hirsutus</i>                        | snapdragon [Scrophulariaceae]  | may-july    | woods: dry, fields, roadside banks                                     | bl-pur   | dolomite                    | 1st - bees: long-tongued - honey, bumble, anthophoridae, mason, & short-tongued - halictid, 2nd - wasps, flies, butterflies   |
| hairy puccoon ▼  | <i>Lithospermum caroliniense</i>                 | borage [boraginaceae]          | may-june    | woods: dry, soil: sandy-open areas                                     | yel-org  | cedar glade                 | butterflies & skippers (e.g. Karner blue & Hobomok skipper)   |
| harbinger-of-spring  | <i>Eriogonum bulbosum</i>                        | parsley [Apiaceae]             | march-april | woods: open, floodplains: wooded, slopes                               | white    | woodland                    | primarily small to med.-size bees, misc. flies  |
| heart-leaved aster; blue wood aster (syn. Aster) ▼                                 | <i>Symphotrichum cordifolius</i>                 | aster [Asteraceae]             | aug-oct     | woods: dry, thickets, clearings  | bl-pur   | woodland                    | long-tongued & short-tongued bees, wasps, flies, butterflies, skippers, & beetles   |
| heath aster; frost aster<br>one of last plants blooming in the fall (syn. Aster) ▼ | <i>Symphotrichum pilosum</i>                     | aster [Asteraceae]             | aug-oct     | fields: dry-old-open, roadsides, disturbed areas                       | white    | woodland                    | 1st - bees: honey, bumble, little carpenter, cuckoo, long-horned, leaf-cutting, halictid, plasterer, andrenid (some oligoleges) 2nd - wasps: sphecid, vespid, ichneumonid, braconid; flies: syrphid, bee, thick-headed, tachinid, flesh, blow, muscid, sm/med butterflies, skippers, moths, & beetles |
| hedge bindweed   | <i>Calystegia sepium</i>                         | morning-glory [Convolvulaceae] | june-oct    | riverbanks, fields, roadsides, disturbed areas, beaches                | white    | prairie                     | 1st - long-tongued bees: bumble, little carpenter bees, & oligolectic mallow, squash & gourd, & morning glory bees. 2nd - sphinx moths  |
| hispid buttercup ▼   | <i>Ranunculus hispidus</i>                       | buttercup [Ranunculaceae]      | march-may   | woods: moist, thickets, streambanks, floodplains                       | yel-org  | Allegheny                   | ?? bees & flies   |
| hoary tick-trefoil ▼   | <i>Desmodium canadense</i>                       | pea [Fabaceae]                 | july-sept   | woods: open, thickets, fields: dry, hillsides: dry                     | pnk-red  | oak openings                | ?? long-tongued bees; pollen only   |
| horse-nettle   | <i>Solanum carolinense</i>                       | nighshade [Solanaceae]         | may-sept    | streambanks, fields: dry, roadsides, disturbed areas                   | white    | Appalachian                 | 1st- bumblebees collect pollen, pollinate via buzz pollination  |
| Indian cucumber-root ▼   | <i>Medeola virginiana</i>                        | lily [Liliaceae]               | may-june    | woods: rich-moist, soil: swampy-deep-loose, slight acid soil           | grn-brwn |                             | ?? Guessing here: flies & beetles like close relative trillium  |
| Indian hemp  | <i>Apocynum cannabinum</i>                       | dogbane [Apocynaceae]          | june-sept   | woods: edges-moist, thickets: moist, ponds/stream edges, fields: moist | white    |                             | 1st - bees : cuckoo, halictid, plasterer, masked. 2nd - sphecid wasps; flies: syrphids, bees, tachinids, calliphorids; butterflies, skippers, & beetles   |
| Indian pipe <small>parasitic</small>   | <i>Monotropa uniflora</i>                        | Indian pipe [Monotropaceae]    | june-aug    | woods: rich  | white    |                             | bumblebees  |
| Indian tobacco   | <i>Lobelia inflata</i>                           | bellflower [Campanulaceae]     | june-sept   | woods: open-edges, thickets, fields, disturbed areas                   | bl-pur   | Lloyd herb                  | small bees, mainly halictid bees  |
| Jack-in-the-pulpit ▼   | <i>Arisaema triphyllum</i>                       | arum [Araceae]                 | april-june  | woods: rich-moist  | grn-brwn | Appalachian, woodland       | fungus gnats & the larvae of parasitic thrips   |
| Jacob's ladder ▼   | <i>Polemonium reptans</i>                        | phlox [Polemoniaceae]          | april-june  | woods: moist, floodplains: wooded                                      | bl-pur   | woodland                    | 1st - bees: honey, bumble, little carpenter, mason, cuckoo bees, halictid, & andrenid bees ( <i>Andrena polemonii</i> is oligolege). 2nd - giant bee fly, butterflies, skippers, & moths  |
| Jerusalem artichoke  | <i>Helianthus tuberosus</i>                      | aster [Asteraceae]             | aug-oct     | fence rows, streambanks, fields: moist, roadsides, soil: moist         | yel-org  |                             | 1st - bees: bumble, cuckoo, digger, leaf-cutting, halictid -oligoleges: digger bee & some andrenid sps, a dagger sps, & a halictid. 2nd - flies: syrphid & bee; sm-med butterflies, wasps, & beetles  |
| Joe-Pye weed (syn. Eupatorium) ▼   | <i>Eutrochium fistulosum</i>                     | aster [Asteraceae]             | july-sept   | thickets: wet, streambanks, floodplains, meadows: moist                | pnk-red  | meadow, Allegheny           | 1st - long-tongued bees: honey, bumbles, etc.; bee flies; butterflies, skippers, & moths  |
| Kalm's lobelia ▼   | <i>Lobelia kalmii</i>                            | bellflower [Campanulaceae]     | july-sept   | bogs/fens, cliffs: wet, alkaline soil                                  | bl-pur   |                             | ?? various bees & small butterflies   |
| kidney-leaf buttercup  | <i>Ranunculus abortivus</i>                      | buttercup [Ranunculaceae]      | april-aug   | woods; soils: moist  | yel-org  |                             | ladybird beetles, small bees, syrphid flies... best? bees?  |
| lakeside daisy ▼ (specific cultural needs)   | <i>Tetraneuris herbacea</i>                      | aster [Asteraceae]             | may-june    | soils: rocky-flat, alkaline soil                                       | yel-org  | alvar                       | bees: bumble, small carpenter, halictid; flies, beetles, butterflies, & skippers. Cross-pollination required  |
| large twayblade  | <i>Liparis liliifolia</i>                        | orchid [Orchidaceae]           | may-july    | woods: rich-pine, thickets, streams: mossy banks                       | grn-brwn |                             | ?? little known; poss. flesh flies because of flower color  |
| large-flowered bellwort ▼  | <i>Uvularia grandiflora</i>                      | lily [Liliaceae]               | april-june  | woods: rich, alkaline soil   | yel-org  | woodland                    | bees: bumble, mason, halictid, & andrenid   |
| large-flowered trillium ▼  | <i>Trillium grandiflorum</i>                     | lily [Liliaceae]               | april-may   | woods: rich  | white    | woodland                    | ?? insects rarely visit flowers: little carpenter bee observed visiting   |
| large-leaved waterleaf ▼   | <i>Hydrophyllum macrophyllum</i>                 | waterleaf [Hydrophyllaceae]    | may-june    | woods: rich, thickets, floodplains: wooded                             | white    | woodland                    | 1st - bees: honey, bumble, mason, digger, andrenid ( <i>Andrena geranii</i> is oligolege), & halictid. 2nd - flies: syrphid & dance; butterflies, & skippers  |
| lizard's-tail  | <i>Saururus cernuus</i>                          | lizard's tail [Saururaceae]    | june-aug    | stream: edges, ponds: shallow, swamps/marshes                          | white    | ponds                       | 1st - wind pollination ?? 2nd - beetles, flies  |
| lopseed  | <i>Phryma leptostachya</i>                       | vervain [Verbenaceae]          | july-aug    | woods: rich moist, thickets  | bl-pur   |                             | occasional - bees: little carpenter & green metallic  |
| marsh marigold ▼   | <i>Caltha palustris</i>                          | buttercup [Ranunculaceae]      | april-june  | streamsides, swamps/marshes, soils: wet                                | yel-org  |                             | bees: honey, halictid; flies: giant bee, syrphid ?? & others  |
| mayapple ▼   | <i>Podophyllum peltatum</i>                      | barberry [Berberidaceae]       | april-june  | woods: rich, openings  | white    | woodland                    | long-tongued bees: bumblebees & others, not specified   |
| Miami-mist   | <i>Phacelia purshii</i>                          | waterleaf [Hydrophyllaceae]    | april-june  | woods: moist-rich, floodplains, meadows: wet                           | bl-pur   | woodland                    | native bees: andrenid, mason ( <i>Hoplitis</i> sp. is oligolege); honeybees   |
| Michigan lily ▼  | <i>Lilium michiganense</i>                       | lily [Liliaceae]               | june-july   | woods: edges-moist, streambanks, meadows: wet, roadside: ditches       | yel-org  |                             | Cross-pollination required. ?? hummingbirds; moth: sphinx, hummingbird, & butterflies: monarch, great spangled fritillary, & spicebush swallowtail  |
| mist-flower ▼  | <i>Conoclinium coelestinum</i> (syn. Eupatorium) | aster [Asteraceae]             | july-oct    | woods: edges, thickets, streambanks, field: edges                      | bl-pur   | meadow                      | 1st - long-tongued bees, butterflies, & skippers. 2nd - short-tongued bees, flies, moths, & beetles   |
| miterwort ▼  | <i>Mitella diphylla</i>                          | saxifrage [Saxifragaceae]      | april-may   | woods: rich  | white    | woodland                    | small short-tongued bees: halictid & little carpenter; syrphid flies  |
| narrow-leaved mountain-mint ▼  | <i>Pycnanthemum tenuifolium</i>                  | mint [Lamiaceae]               | july-sept   | woods: openings, fields: dry, roadside banks                           | white    | sedge meadow                | long-tongued bees, short-tongued bees; wasps; flies; butterflies & skippers; beetles; & plant bugs  |
| New England aster (syn. Aster) ▼   | <i>Symphotrichum novae-angliae</i>               | aster [Asteraceae]             | aug-oct     | thickets, swamps, fields   | bl-pur   | prairie                     | 1st - long-tongued bees: bumble, honey, miner, large leaf-cutting; bee flies, butterflies, & skippers. cross-pollination is required. Short-tongued bees & syrphid flies visit, but are non-pollinating   |

|   |                                  |                                |           |   |          |                             |   |
|---|----------------------------------|--------------------------------|-----------|---|----------|-----------------------------|---|
| nodding lady's tresses ▼                | <i>Spiranthes cernua</i>         | orchid [Orchidaceae]           | aug-sept  | prairies: moist sand, sandy savannas, shrubby bogs, gravelly seeps, limestone glades, ditches, abandoned fields | white    |                             | long-tongued & short-tongued bees occasionally visit for nectar   |
| nodding onion ▼                         | <i>Allium cernuum</i>            | lily [Liliaceae]               | july-aug  | banks: gravel, prairie remnants, roadsides, alkaline soil   | pnk-red  | prairie, cedar glade, alvar | bees: honey, bumble, anthophorine, & halictid   |
| northern blue flag ▼                    | <i>Iris versicolor</i>           | iris [Iridaceae]               | may-july  | swamps/marshes, meadows: wet  | bl-pur   |                             | ?? long-tongued bees & short-tongued bees; limited information  |
| northern monkshood ▼ caution: poisonous | <i>Aconitum noveboracense</i>    | buttercup [Ranunculaceae]      | july-aug  | streambanks, streambanks, ravines: cool-shade, cliffs: moist, alkaline soil                                     | bl-pur   |                             | bumblebees; has protandrous flowers - stamens mature before the pistils are receptive to pollen older to younger flowers: forces cross-pollination  |
| obedient plant ▼                        | <i>Physostegia virginiana</i>    | mint [Lamiaceae]               | july-oct  | thickets: wet, streambanks, swamps, soil: wet   | pnk-red  | meadow                      | 1st - bumblebees. 2nd - long-tongued bees & ruby-throated hummingbird   |
| Ohio spiderwort ▼                       | <i>Tradescantia ohiensis</i>     | spiderwort [Commelinaceae]     | may-june  | thickets: wet, meadows: wet, roadsides  | bl-pur   | prairie                     | long-tongued bees: espec. bumblebees, then halictine bees   |
| oswego tea ▼                            | <i>Monarda didyma</i>            | mint [Lamiaceae]               | june-aug  | woods: open-wet, thickets, streambanks edges, ditches: wet  | pnk-red  | woodlands, headlands dune   | hummingbirds, swallowtail butterflies, & probably bumblebees  |
| ox-eye daisy, false sunflower ▼         | <i>Heliopsis helianthoides</i>   | aster [Asteraceae]             | july-sept | woods: open, streambanks, floodplains, prairie, soil: moist   | yel-org  | prairie/meadow              | bees: honey, bumble, little carpenter, digger bees, cuckoo, leaf-cutting, halictid, andrenid; thread-waisted wasp, etc.; flies: syrphid, bee; goldenrod soldier beetle, etc.; painted lady butterflies & others, & skippers |
| pale touch-me-not ▼                     | <i>Impatiens pallida</i>         | touch-me-not [Balanaceae]      | june-sept | woods: edges-wet, streambanks, ditches: shady   | yel-org  | woodland                    | 1st - bumblebees & ruby-throated hummingbird  |
| partridge pea (syn. Cassia) ▼           | <i>Chamaecrista fasciculata</i>  | pea [Fabaceae]                 | july-sept | fields: old, roadsides, soil: sandy   | yel-org  | prairie, cedar glade        | long-tongued bees: honey, bumble, long-horned, & leaf-cutting. 2 sps, <i>Anthophora walshii</i> & <i>Svastra atripes</i> are oligoleges. Can self-pollinate   |
| partridge-berry ▼                       | <i>Mitchella repens</i>          | madder [Rubiaceae]             | june-july | woods, acid soil (subshrub)   | white    |                             | cross-pollinated by bumblebees  |
| Philadelphia fleabane                   | <i>Erigeron philadelphicus</i>   | aster [Asteraceae]             | april-aug | woods: open, fields, roadsides  | white    |                             | bee: little carpenter, cuckoo, mason, leaf-cutting cuckoo, halictid, halictid cuckoo, masked, andrenid; eumenine wasps; flies: syrphid flies, thick-headed, tachinid, flesh; butterflies, skippers; beetles; & plant bugs   |
| pickerelweed ▼                          | <i>Pontederia cordata</i>        | pickerelweed [Pontederiaceae]  | june-oct  | pond/shallow water, swamps/marshes  | bl-pur   | ponds                       | Bumblebees & other bees. <i>Melissodes apicata</i> & <i>Doufourea novaeangliae</i> are rare oligolegetic bee visitors. 2nd - sulfur butterflies & others  |
| pineapple-weed [W-US]                   | <i>Matricaria discoidea</i>      | aster [Asteraceae]             | june-oct  | barnyards, roadside, disturbed areas, soil: wet   | yel-org  |                             | ?? flower flies (syrphidae)   |
| pink lady's-slipper                     | <i>Cypripedium acaule</i>        | orchid [Orchidaceae]           | may-june  | woods: pine-oak, bogs, soil: sandy, acid soil   | pnk-red  |                             | 1st - queen bumblebees, deceptive technique: offers neither pollen or nectar  |
| pitcher-plant ▼                         | <i>Sarracenia purpurea</i>       | pitcher-plant [Sarraceniaceae] | may-july  | bogs/swamps, soil: low nutrient sphagnum, acidic  | pnk-red  | bog                         | 1st - bumblebees. Also: pitcher plant fly: lives in flowers, gets covered with pollen, then it flies to another flower  |
| pokeweed                                | <i>Phytolacca americana</i>      | pokeweed [Phytolaccaceae]      | july-sept | thickets: damp, fencerows, clearings, roadsides   | white    | all over                    | 1st - syrphid flies & halictid bees. 2nd - wasps & other flies  |
| prairie-dock ▼                          | <i>Silphium terebinthinaceum</i> | aster [Asteraceae]             | aug-sept  | prairie/prairie remnants  | yel-org  | prairie, cedar glade        | 1st - long-tongued bees: honey, bumble, & miner. 2nd - halictid bees, bee flies, & ruby-throated hummingbird  |
| purple bergamot ▼                       | <i>Monarda media</i>             | mint [Lamiaceae]               | july-aug  | woods: moist, thickets, fields, roadsides   | bl-pur   | herb                        | less specific info: bees, butterflies, & hummingbirds. <i>Monarda</i> oligoleges: <i>Dufourea monarda</i> , <i>Perdita gerhardi</i> , & <i>Protandrena abdominalis</i> (bees)   |
| purple coneflower ▼                     | <i>Echinacea purpurea</i>        | aster [Asteraceae]             | june-oct  | woods: openings-edges, thickets, prairie remnants, not common in wild   | pnk-red  | prairie                     | long-tongued & halictid bees, bee flies, butterflies, & skippers  |
| purple cress ▼                          | <i>Cardamine douglassii</i>      | mustard [Brassicaceae]         | march-may | woods: rich-moist, floodplains: wooded, cliffs: moist   | bl-pur   | Appalachian                 | ?? bees: honey, mason, andrenid, halictid bees; bee flies; other misc. early spring flies & butterflies   |
| purple milkwort                         | <i>Polygala sanguinea</i>        | milkwort [Polygalaceae]        | june-sept | meadows/fields, roadsides   | bl-pur   |                             | small to med. bees: dagger, long-horned, cuckoo, & leaf-cutting; & bee flies  |
| pussytoes ▼                             | <i>Antennaria neglecta</i>       | aster [Asteraceae]             | april-may | fields: dry pastures; soil: well-drained  | white    |                             | wind-pollinated & small bees: halictid, andrenid, cuckoo; flies: syrphid, muscid, calliphorid, & tachinid; diverse thoughts on actual pollinators   |
| putty-root orchid                       | <i>Aplectrum hyemale</i>         | orchid [Orchidaceae]           | may-june  | woods: rich   | grn-brwn |                             | ?? bees: a halictid bee species is likely. deceptive technique: no nectar   |
| queen-of-the-prairie ▼                  | <i>Filipendula rubra</i>         | rose [Rosaceae]                | june-aug  | meadows/prairies: moist   | pnk-red  | headland dune               | ?? no nectar; various bees sps. collect pollen from the flowers   |
| rattlesnake weed                        | <i>Hieracium venosum</i>         | aster [Asteraceae]             | may-sept  | woods: openings-edges, clearings  | yel-org  |                             | ?? Limited info; short-tongued bees   |
| rattlesnake-master ▼                    | <i>Eryngium yuccifolium</i>      | parsley [Apiaceae]             | july-aug  | prairie openings  | white    | prairie, cedar glade        | long-tongued bees & short-tongued bees, wasps, flies, butterflies, skippers, moths, beetles, & plant bugs   |
| red trillium ▼                          | <i>Trillium erectum</i>          | lily [Liliaceae]               | april-may | woods: rich   | pnk-red  | Appalachian                 | ?? probably attract flesh flies, carrion beetles, & similar insects   |
| rose-pink gentian ▼                     | <i>Sabatia angularis</i>         | gentian [Gentianaceae]         | july-sept | woods: openings, fields: dry-moist, roadsides   | pnk-red  |                             | ?? long-tongued bees & possibly other insects with long mouthparts: butterflies & skippers. Observed: little carpenter bee, & large leaf-cutting bee visiting flowers   |
| round-leaved sundew                     | <i>Drosera rotundifolia</i>      | sundew [Droseraceae]           | june-aug  | bog/swamps, soil: sphagnum, acid soil   | white    |                             | interesting conundrum as pollinating insects must avoid becoming prey; some self-pollination, some wind, & some insects - non-specific  |
| royal catchfly ▼                        | <i>Silene regia</i>              | pink [Caryophyllaceae]         | june-aug  | woods: open-dry, prairies, roadsides  | pnk-red  | prairie                     | larger butterflies: black swallowtail, etc.; & ruby-throated hummingbird  |
| rue anemone ▼                           | <i>Anemonella thalictroides</i>  | buttercup [Ranunculaceae]      | march-may | woods: rich   | white    | woodland                    | no nectar; bees: honey, little carpenter, cuckoo, mason, halictid, & andrenid; flies: syrphid & bee   |
| sessile trillium ▼                      | <i>Trillium sessile</i>          | lily [Liliaceae]               | april-may | woods: moist, thickets  | pnk-red  | Appalachian                 | ?? rank odor & color of the petals: beetles & flies that are attracted to rotting flesh; a small weevil has been observed collecting pollen   |
| sharp-lobed hepatica ▼                  | <i>Hepatica acutiloba</i>        | buttercup [Ranunculaceae]      | march-may | woods: rich, alkaline soil  | bl-pur   | woodland                    | no nectar; 1st - bees: honey, small carpenter, andrenid, & halictid; 2nd - syrphid & other flies  |
| sharp-winged monkey flower ▼            | <i>Mimulus alatus</i>            | snapdragon [Scrophulariaceae]  | june-sept | streambanks, swamps, soil: wet  | bl-pur   |                             | bumblebees  |

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| shooting star ♥                            | <i>Dodecatheon meadia</i>       | primrose [Primulaceae]     | april-june  | woods: openings, prairie, cliffs/hillsides, alkaline soil   | white    | prairie, cedar glade       | bees: Queen bumble, anthophorine, long-horned, green metallic: all collect pollen; flowers offer no nectar   |
| showy lady's slipper                       | <i>Cypripedium reginae</i>      | orchid [Orchidaceae]       | june-july   | woods: wet, swamp/bogs, alkaline soils                      | pnk-red  |                            | ?? deceptive technique-no nectar or accessible pollen; 1st - long-tongued bees. 2nd - syrphid flies & scarab beetles   |
| showy orchis (syn. Orchis)                 | <i>Galearis spectabilis</i>     | orchid [Orchidaceae]       | may-june    | woods: rich-moist-beech-maple                               | pnk-red  |                            | bumblebees   |
| showy skullcap ♥                           | <i>Scutellaria serrata</i>      | mint [Lamiaceae]           | may-june    | woods: rich, roadside banks                                 | bl-pur   |                            | ?? 1st - various bees. 2nd - butterflies & skippers  |
| skunk cabbage                              | <i>Symplocarpus foetidus</i>    | arum [Araceae]             | feb-april   | woods: very wet, swamps, marshes                            | grn-brwn | rain garden                | flesh & carrion flies, & gnats; are attracted by the carrion-like appearance & unpleasant odor of inflorescence  |
| slender lady's tresses                     | <i>Spiranthes lacera</i>        | orchid [Orchidaceae]       | aug-sept    | woods:dry-openings-edges, fields                            | white    | woodland                   | long-tongued bees: bumble, leaf-cutting, mason, sweat, leaf-cutter   |
| small-flowered leafcup ♥                   | <i>Polymnia canadensis</i>      | aster [Asteraceae]         | june-oct    | woods: rich-moist, alkaline soil                            | white    | dolomite, meadow           | honeybees, bumblebees, & miscellaneous flies   |
| smooth ruellia ♥                           | <i>Ruellia strepens</i>         | acanthus [Acanthaceae]     | may-aug     | woods: openings-edges, thickets, roadsides, cliffs          | bl-pur   | cedar glade, prairie       | smaller long-tongued bees, long-horned bee. 2nd - leaf-cutting bees; metallic wood-boring beetles  |
| snow trillium ♥                            | <i>Trillium nivale</i>          | lily [Liliaceae]           | march-april | woods: rich: cliffs: base, ledges: shade, alkaline soil     | white    |                            | bees: andrenid, queen bumble, & bees that become active in early spring  |
| Solomon's plume, false Solomon's seal ♥    | <i>Smilacina racemosa</i>       | lily [Liliaceae]           | may-july    | woods: moist, thickets, slope: woodl&                       | white    | woodland                   | small bees, flies, & many beetles: seed, long-horned, click, blister, tumbling flower, flower scarab & pedicid   |
| Solomon's seal ♥                           | <i>Polygonatum biflorum</i>     | lily [Liliaceae]           | may-june    | woods: dry to moist, thickets                               | grn-brwn | woodland, Allegheny        | bees: bumble, anthophorid, & halictid & ruby-throated hummingbird  |
| spiked lobelia, pale spiked lobelia ♥      | <i>Lobelia spicata</i>          | bellflower [Campanulaceae] | june-aug    | woods: edges-dry, roadsides                                 | bl-pur   | dolomite                   | 1st - long-tongued bees: little carpenter, miner, mason, & leaf-cutting. 2nd - small butterflies & skippers  |
| spotted touch-me-not ♥                     | <i>Impatiens capensis</i>       | touch-me-not [Balanaceae]  | june-sept   | woods: edges-wet, riverbanks: shaded, roadsides/ditches     | yel-org  | woodland                   | 1st - ruby-throated hummingbird & long-tongued bees: bumblebees & honeybees. 2nd - swallowtail butterflies   |
| spring beauty ♥                            | <i>Claytonia virginica</i>      | purslane [Portulacaceae]   | march-may   | woods: moist, thickets, clearings                           | white    | woodland                   | 1st - bees: honey, bumble, little carpenter, mason, cuckoo, halictid, & andrenid ( <i>Andrena erigeniae</i> is oligolege); flies: syrphids, giant bee, flesh & calliphorid. 2nd - butterflies & skippers   |
| spring cress                               | <i>Cardamine rhomboidea</i>     | mustard [Brassicaceae]     | april-june  | woods: rich- wet, streambanks: wet, springs, clearings: wet | white    | woodland                   | bees: cuckoo, mason, little carpenter, halictid, andrenid, flies: bee, dance, syrphid, sm-med butterflies & skippers   |
| squawroot parasitic                        | <i>Conopholis americana</i>     | broomrape [Orobanchaceae]  | april-june  | woods: rich-oak   | grn-brwn |                            | ?? similar species pollinated by bumblebees  |
| squirrel-corn ♥                            | <i>Dicentra canadensis</i>      | poppy [Papaveraceae]       | april-may   | woods: rich w/deep soil                                     | white    | woodland                   | 1st - queen bumblebees   |
| star chickweed                             | <i>Stellaria pubera</i>         | pink [Caryophyllaceae]     | april-june  | woods: moist, rocky areas                                   | white    | vegetable                  | bees: cuckoo, mason, halictid, andrenid; flies: giant bee, syrphid   |
| stiff gentian; agueweed                    | <i>Gentianella quinquefolia</i> | gentian [Gentianaceae]     | sept-oct    | woods: moist, streambanks, roadsides                        | bl-pur   |                            | ?? closed corolla suggests that long-tongued bees cross-pollinate flowers  |
| stiff goldenrod ♥                          | <i>Oligoneuron rigidum</i>      | aster [Asteraceae]         | aug-oct     | prairies: dry, fields, roadsides, soil: dry, alkaline soils | yel-org  | alvar                      | long-tongued bees, short-tongued bees, wasps, flies, butterflies, & beetles, monarch butterflies   |
| striped white violet ♥                     | <i>Viola striata</i>            | violet [Violaceae]         | april-june  | woods: moist, streambanks, roadsides                        | white    | woodland                   | 1st - bees: bumble, long-horned, mason bees, & andrenid ( <i>Andrena violae</i> is oligolege). 2nd - giant bee fly; butterflies, & skippers  |
| swamp milkweed ♥                           | <i>Asclepias incarnata</i>      | milkweed [Asclepiadaceae]  | july-aug    | shores, swamps/marshes, ditches: wet, soil: moist           | pnk-red  | Appalachian, headland dune | Bees: bumble, honey, long-horned, halictid; wasps: sphecid, vespid, tiphiid, spider; flies: mydas, thick-headed, tachinid; butterflies: swallowtail, greater fritillaries, monarch, & skippers. 2nd - ruby-throated hummingbird                                |
| swamp rose-mallow ♥                        | <i>Hibiscus moscheutos</i>      | mallow [Malvaceae]         | july-sept   | lake shores/pond edges, marshes, ditches: wet               | pnk-red  | first family patio         | bees: bumble & other long-tongued bees, rose mallow bee is an oligolege. 2nd - ruby-throated hummingbird   |
| sweet cicely (native); aniseroot ♥         | <i>Osmorhiza longistylis</i>    | parsley [Apiaceae]         | may-june    | woods: moist-shady  | white    | woodland                   | sm-med. bees: cuckoo, mason, halictid, masked; wasps; flies: syrphid, bee, dance, tachinid, anthomyid; & beetles   |
| tall bellflower ♥                          | <i>Campanula americana</i>      | bellflower [Campanulaceae] | june-sept   | woods: rich-moist, thickets, roadsides                      | bl-pur   | woodland                   | long-tongued bees: bumble & leaf-cutting ( <i>Megachile campanulae</i> is oligolectic), halictid; butterflies, & skippers.   |
| tall blue lettuce; wild lettuce            | <i>Lactuca floridana</i>        | aster [Asteraceae]         | july-sept   | woods: edges, thickets: wet, floodplains: wooded, roadsides | bl-pur   | meadow, woodland           | bees: leaf-cutting, & halictid   |
| tall coreopsis ♥                           | <i>Coreopsis tripteris</i>      | aster [Asteraceae]         | july-sept   | woods: edges, thickets                                      | yel-org  | cedar glade                | bees: bumble, cuckoo, digger, leaf-cutting, halictid, dagger; wasps: thread-waisted & others; flies: syrphid, bee, tachinid; butterflies, skippers, & goldenrod soldier beetle   |
| tall ironweed ♥                            | <i>Vernonia gigantea</i>        | aster [Asteraceae]         | aug-oct     | thickets/field: moist, roadsides, prairie openings/meadow;  | bl-pur   | meadow                     | bee flies, butterflies, skippers, & various long-tongued bees  |
| tall meadow-rue ♥                          | <i>Thalictrum pubescens</i>     | buttercup [Ranunculaceae]  | june-aug    | woods: rich, streambanks, meadows: wet,                     | white    | fen                        | dioecious, wind-pollinated plant   |
| tall thoroughwort ♥                        | <i>Eupatorium altissimum</i>    | aster [Asteraceae]         | aug-sept    | woods: clearings, fields, roadsides                         | white    |                            | bees: long-tongued & short-tongued; wasps: paperp, thread-waisted, bee wolfest, scoliid, larrine, s&, spider, etc.; flies: syrphid, bee, tachinid, muscid, etc; small butterflies, skippers, beetles, & plant bugs   |
| thimbleweed ♥                              | <i>Anemone virginiana</i>       | buttercup [Ranunculaceae]  | july-aug    | woods: dry-open-edges, fields: old, thickets, alkaline soil | white    | Appalachian                | sm bees: plasterer & halictid bees; & flower flies   |
| three-lobed coneflower; brown-eyed Susan ♥ | <i>Rudbeckia triloba</i>        | aster [Asteraceae]         | july-oct    | woods: open, thickets, soil: moist                          | yel-org  |                            | bees: bumble, little carpenter, digger, cuckoo, leaf-cutting, andrenid (oligolege: <i>Andrena rudbeckiae</i> ), & halictid-green metallic; wasps: sphecid, vespid; flies: syrphid, bee, thick-headed, tachinid: sm-med butterflies, & goldenrod soldier beetle |
| tickseed sunflower ♥ annual                | <i>Bidens coronata</i>          | aster [Asteraceae]         | aug-oct     | floodplains, meadows: wet, roadside: ditches                | yel-org  |                            | bees: honey, bumble, leaf-cutting, halictid, andrenid; beetles: goldenrod soldier & dark scarab  |

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| turtlehead ▼                              | <i>Chelone glabra</i>           | snapdragon [Scrophulariaceae]  | july-sept  | stream/lake edges, swamps, roadside ditches, soil: wet                                    | white    |                       | 1st - bumblebees. 2nd - ruby-throated hummingbird   |
| twingle ▼                                 | <i>Jeffersonia diphylla</i>     | barberry [Berberidaceae]       | april-may  | woods: rich, slopes: moist-well-drained, alkaline soil                                    | white    | woodland              | early bloomer; often self-pollinates; honeybees & halictid bees   |
| two-flowered Cynthia                      | <i>Krigia biflora</i>           | aster [Asteraceae]             | april-aug  | woods: open, fields, roadsides  | yel-org  | oak openings<br>dune  | long-tongued bees: bumble, honey, little carpenters, cuckoo, mason, short-tongued: halictid, masked, andrenid (oligolege: <i>Andrena krigiana</i> ); predatory wasps; flies: syrphid, tachinid, etc.; butterflies, skippers, & beetles  |
| Venus looking-glass annual                | <i>Triodanis perfoliata</i>     | bellflower [Campanulaceae]     | may-july   | woods: edges, thickets, roadsides, disturbed open areas                                   | bl-pur   |                       | 1st - 5m bees: little carpenter, plasterer (oligolege: <i>Colletes brevicornis</i> ), green metallics, & other halictid. 2nd - bumblebees, flies, small butterflies, & skippers   |
| Virginia bluebells ▼                      | <i>Mertensia virginica</i>      | borage [boraginaceae]          | april-may  | woods: rich   | bl-pur   | woodland, pergola     | long-tongued bees: honey, bumble, anthophorid & mason; giant bee fly; butterflies, skippers, & sphinx moths (hummingbird moth)  |
| water hemlock                             | <i>Cicuta maculata</i>          | parsley [Apiaceae]             | june-july  | streambanks, pond/lake margins, swamps, ditches: wet                                      | white    |                       | insects with short mouthparts - bees: leafcutter, halictid, cuckoo, plasterer, masked; wasps: sphecids, vespid, tiphiids, spider, velvet ants, cuckoo, eucoilids, braconid; flies: soldier, syrphid, thick-headed, tachinid, flesh, muscid, & misc. beetles   |
| white avens                               | <i>Geum canadense</i>           | rose [Rosaceae]                | june-aug   | woods: edges, thickets, shaded  | white    | woodland              | bees, wasps, flies: syrphid, & beetles  |
| white baneberry; doll's eyes ▼            | <i>Actaea alba</i>              | buttercup [Ranunculaceae]      | may-june   | woods: moist-rich, thickets, floodplains: wooded  | white    | woodland              | only offers pollen; halictid bees   |
| white snakeroot (syn. Eupatorium rugosum) | <i>Ageratina altissima</i>      | aster [Asteraceae]             | july-oct   | woods: rich, thickets   | white    | Appalachian, woodland | bees: leaf-cutting, halictid; wasps; flies: syrphid, tachinid, bee & others; butterflies, & moths   |
| white trout-lily ▼                        | <i>Erythronium albidum</i>      | lily [Liliaceae]               | april-june | woods: moist, thickets  | white    | woodland              | bees: honey, mason, cuckoo, digger, halictid, plasterer, & andrenid bees (oligolege: <i>Andrena erythronii</i> ). 2nd - giant bee fly, butterflies, & skippers  |
| white wild indigo ▼                       | <i>Baptisia alba</i>            | pea [Fabaceae]                 | june-aug   | woods: dry, prairie openings, roadside  | white    | cedar glade           | worker bumblebees pollinate the flowers   |
| daisy fleabane; white-top                 | <i>Erigeron strigosus</i>       | aster [Asteraceae]             | may-sept   | fields, roadsides, disturbed areas  | white    |                       | 1st - bees: little carpenter, cuckoo, mason, plasterer, masked, halictid, halictid cuckoo; flies: syrphid, bee, tachinid, flesh, & muscid. 2nd - wasps, small butterflies, & beetles  |
| whorled loosestrife                       | <i>Lysimachia quadrifolia</i>   | primrose [Primulaceae]         | june-july  | woods: open, thicket, roadsides, soil: sandy  | yel-org  | cedar glade           | bees: honey & bumble ?? Specialized oil bees ( <i>Macropis</i> sps.)  |
| whorled milkweed ▼                        | <i>Asclepias verticillata</i>   | milkweed [Asclepiadaceae]      | june-sept  | woods: open, fields: dry, roadsides   | white    |                       | 1st - bees: honey, bumble, halictid, halictid cuckoo; wasps: sand-loving, weevil, sphecids, five-banded tiphiid, northern paper, spider, eumenine. 2nd - flies: syrphid, thick-headed, tachinid, flesh, muscid; painted lady & other butterflies, Peck's Skipper & other skipper; squash vine borer moth & other moths; & Pennsylvania soldier beetle |
| whorled rosinweed ▼                       | <i>Silphium trifoliatum</i>     | aster [Asteraceae]             | july-sept  | woods: edges, thickets, prairie   | yel-org  | prairie               | ?? native bees & honeybees  |
| wild bergamot ▼                           | <i>Monarda fistulosa</i>        | mint [Lamiaceae]               | july-aug   | woods: edges, thickets, fields: dry, alkaline soil  | bl-pur   | headlands,            | long-tongued bees: bumblebees, miner, epeoline cuckoo, & large leaf-cutting, halictid (oligolege: <i>Dufourea monardae</i> ); bee flies, butterflies, skippers, & hummingbird moths. 2nd - ruby-throated hummingbird  |
| wild blue phlox; woodland phlox ▼         | <i>Phlox divaricata</i>         | phlox [Polemoniaceae]          | april-june | woods: rich-edges-openings, fields  | bl-pur   | meadow                | long-tongued bees: bumble; bee flies; butterflies: swallowtails, skippers, & moths: hummingbird clearwing & sphinx  |
| wild columbine ▼                          | <i>Aquilegia canadensis</i>     | buttercup [Ranunculaceae]      | april-july | woods: rich, rocky ledges   | pnk-red  | dolomite              | 1st - bumblebees & ruby-throated hummingbird. 2nd - short-tongued halictid bees   |
| wild four-o'clock ▼                       | <i>Mirabilis nyctaginea</i>     | four o'clock [Nyctaginaceae]   | june-oct   | roadsides, disturbed areas, soil: dry   | pnk-red  | headland sand dune    | 1st - long-tongued (nectar) & short-tongued bees (pollen), & moths. 2nd - ruby-throated hummingbird   |
| wild garlic                               | <i>Allium canadense</i>         | lily [Liliaceae]               | may-july   | woods: moist, floodplains: wooded, meadows: moist   | pnk-red  |                       | bees: onion, mason, stolid, halictid, plasterer, masked; syrphid & bee flies, & wasps   |
| wild geranium ▼                           | <i>Geranium maculatum</i>       | geranium [Geraniaceae]         | april-june | woods: rich-moist, floodplains: wooded, cliffs: moist                                     | pnk-red  | woodland, medicinal   | bees: bumble, mason, cuckoo, long-horned, halictid, andrenid bees ( <i>Andrena distans</i> is an oligolege) & others; syrphid flies & dance flies, butterflies, & skippers  |
| wild ginger ▼                             | <i>Asarum canadense</i>         | birthwort [Aristolochiaceae]   | april-may  | woods: rich; floodplains: wooded  | grn-brwn | woodland              | ?? probably attract flies or beetles  |
| wild hyacinth ▼                           | <i>Camassia scilloides</i>      | lily [Liliaceae]               | may-june   | woods: open-shaded, stream edges, floodplains: wooded, slopes: steep-rocky, alkaline soil | bl-pur   | Appalachian, prairie  | 1st - bees: honeys, bumble, cuckoo, & halictid; & flies. 2nd - occasional butterflies & wasps   |
| wild leek, ramp ▼                         | <i>Allium tricoccum</i>         | lily [Liliaceae]               | june-july  | woods: rich-moist, bottomlands  | white    | woodland              | 1st - bees: halictid, masked, honey, bumble, & mason. 2nd - syrphid flies   |
| wild lettuce                              | <i>Lactuca canadensis</i>       | aster [Asteraceae]             | june-sept  | woods: open, fence rows, fields, roadsides, disturbed areas                               | yel-org  |                       | 1st - leaf-cutting & halictid bees  |
| wild lupine ▼                             | <i>Lupinus perennis</i>         | pea [Fabaceae]                 | april-july | savannahs: oak, soil: dry-sandy   | bl-pur   |                       | bees: honey, bumble, digger, mason, & other long-tongued bees, halictid; & bee flies. Only pollen is available, which is forcibly ejected into the faces of insect visitors   |
| wild potato-vine                          | <i>Ipomoea pandurata</i>        | morning-glory [Convolvulaceae] | july-sept  | fields, roadsides, hillsides, disturbed areas, soils: dry                                 | white    | garden of the lost    | long-tongued bees: honey, bumble, & digger, mallow & morning glory bees (oligolectic). Less common: swallowtail butterflies, skippers, & sphinx moths   |
| wild quinine ▼                            | <i>Parthenium integrifolium</i> | aster [Asteraceae]             | july-oct   | prairie openings  | white    |                       | bees: halictid; wasps: crabronine, eumenine, cuckoo, braconid, etc.; flies: syrphid, tachinid, flesh, muscid flies, anthomyiid, etc.; beetles, & plant bugs   |
| wild stonecrop ▼                          | <i>Sedum ternatum</i>           | stonecrop [Crassulaceae]       | april-june | banks, cliffs: moist-wooded, rocks: damp  | white    | woodland              | 1st - various bees: andrenid, etc. 2nd - wasps & flies  |

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| wild strawberry ▼         | <i>Fragaria virginiana</i>    | rose [Rosaceae]               | april-june | open fields, meadows  | white    | sedge meadow, dune | lots of bees: little carpenter, cuckoos, masons, halictids, halictid cuckoo, andrenid; lots of flies: syrphid, thick-headed, tachinid, bottle, flesh; small butterflies, & skippers   |
| wingstem ▼                | <i>Verbesina alternifolia</i> | aster [Asteraceae]            | aug-oct    | woods: edges, thickets, near streams, floodplains, soil: rich | yel-org  | meadow             | long-tongued bees, esp. bumble; has long disk flower tubes  |
| wood nettle               | <i>Laportea canadensis</i>    | nettle [Urticaceae]           | july-sept  | woods: moist, stream edges, floodplains: flooded              | grn-brwn | woodland           | wind pollinated; has stinging hairs (trichomes) on stems  |
| wood-betony hemiparasitic | <i>Pedicularis canadensis</i> | snapdragon [Scrophulariaceae] | april-june | woods: openings-edges,  | pnk-red  | sedge meadow       | 1st - long-tongued bees: queen bumble & mason bees  |
| woodland sunflower ▼      | <i>Helianthus divaricatus</i> | aster [Asteraceae]            | july-oct   | woods: open, thickets, roadsides                              | yel-org  | oak openings dune  | specialist bee pollinators: <i>Andrena</i> species, etc.; long-tongued bees: honey, bumble, digger bees, leaf-cutting bees, cuckoo bees, etc.; short-tongued bees: halictid; misc. wasps; misc. flies; butterflies & skippers, & goldenrod soldier beetle |
| yellow corydalis          | <i>Corydalis flavula</i>      | poppy [Papaveraceae]          | april-may  | woods: open-sandy, gravel banks, rocky slopes                 | yel-org  |                    | ?? probably bees: honeybee & bumble have been observed  |
| yellow lady's-slipper     | <i>Cypripedium calceolus</i>  | orchid [Orchidaceae]          | may-july   | swamp-bogs, soil: rich-moist, alkaline soil                   | yel-org  |                    | small bee: honey, little carpenter bees, mason bees, halictid bees, & andrenid bees, & possibly various flies   |
| yellow pimpernel          | <i>Taenidia integerrima</i>   | parsley [Apiaceae]            | may-june   | woods: dry, thickets, roadside banks, hillsides: rocky        | yel-org  |                    | small bees: nomadine, little carpenter, halictid, carder, & andrenid; wasps (e.g. parasitic); flies: syrphid, tachinid, chloropid, March, & blow, & beetles.  |
| yellow trout-lily ▼       | <i>Erythronium americanum</i> | lily [Liliaceae]              | march-may  | woods: moist  | yel-org  | woodland           | 1st - bees: bumble, mason bees, & andrenid bees   |
| yellow wood-sorrel        | <i>Oxalis stricta</i>         | wood-sorrel [Oxalidaceae]     | june-oct   | woods, fields, roadsides, disturbed areas                     | yel-org  | prairie            | halictid & other bees, flower & bee flies, & cabbage white butterfly  |
| zigzag goldenrod ▼        | <i>Solidago flexicaulis</i>   | aster [Asteraceae]            | aug-sept   | woods: rich   | yel-org  | woodland           | many: long-tongued bees, small-tongued bees, wasps, flies, & butterflies. Several bee oligoleges of goldenrods: <i>Andrena</i> species  |

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| <b>Other Resources</b>   |
| Lady Bird Johnson Wildflower Center - <a href="https://www.wildflower.org/">https://www.wildflower.org/</a>  |
| Mary Reynolds - <a href="http://weartheark.org/what-is-an-ark/">http://weartheark.org/what-is-an-ark/</a> ARK = Acts of Restorative Kindness   |
| North Carolina Extension Gardener Plant Toolbox - <a href="https://plants.ces.ncsu.edu/">https://plants.ces.ncsu.edu/</a>  |
| ODNR Webpage on Invasive plants - <a href="http://ohiodnr.gov/invasiveplants">http://ohiodnr.gov/invasiveplants</a>  |
| Pollinator & other habitat info: <a href="https://www.illinoiswildflowers.info">https://www.illinoiswildflowers.info</a>   |
| Xerces Society - <a href="https://xerces.org/pollinator-conservation/pollinator-friendly-plant-lists">https://xerces.org/pollinator-conservation/pollinator-friendly-plant-lists</a>   |
| National Wildlife Federation: Attracting Birds, Butterflies, & Other Backyard Wildlife (Expanded Second Edition) - 2019, David Mizejewski  |
| Back to Eden: Landscaping with Native Plants - 2013, Frank Porter  |
| Butterfly Gardening with Native Plants: How to Attract & Identify Butterflies - 2015, Christopher Kline  |
| <i>The Bees in Your Backyard</i> - 2016, Joseph S. Wilson & Olivia Messinger Carril  |
| <i>Trees of Ohio Field Guide</i> - 2004, Stan Tekiela  |
| Wildflowers of Ohio - 1998 & 2008, Robert Henn; majority of plant list is from this book   |
| Ohio Invasive Plants Council brochure: "Alternatives for Invasive Plants in Ohio: A Guide for Landscaping & Habitat Restoration" <a href="https://www.oipc.info/oipc-&amp;ohio-material.html">https://www.oipc.info/oipc-&amp;ohio-material.html</a> |

**NOTES:**

- long-tongued bees: Anthophoridae (anthophorid bees-miner, carpenter, parasitic), Apidae (honey & bumble), Megachilidae (leaf-cutting bees - carder bees, mason bees, cuckoo bees, *Hopliis* sp.), Melittidae (oil-collecting bees)
- short-tongued bees: Andrenidae (andrenid bees, small miner bees), Colletidae (plasterer bees, miner bees, masked bees), Halictidae (halictid bees, green metallic bees, alkali bees, cuckoo halictid bees, dufourine bees)
- oligolege - specialist pollinator for various plant species
- 1st = primary pollinators, 2nd = secondary/less effective pollinators; some predatory insects also eat nectar and pollen and can be minor pollinators
- ?? - less data; dependable sources inferring probable pollinators based on similar plant species
- ▼ = a plant that may be easier to find and usually plays well with others; plants not given a ▼ may be very vigorous growers or self-seeders, may have other qualities that you might not want in a garden or may not be easily found (e.g. orchids, sundews, etc.) Disclaimer: this is my opinion which is subject to change - DKnapke

Last note - Understanding a plant's cultural needs is fundamental to creating an eco-conscious garden. There are plants that will only grow well within a limited set of conditions. And there are plants that will take over a garden if they are not planted with companions that keep them in check; 'tis the way of nature...

Hope Taft & Debra Knapke, January 20, 2020  
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