Let's Plant for Pollinators!
I helped install a few school gardens...
Things that didn’t work:

- Digging up the grass wasn’t going to work

- Putting compost and soil on top of the grass only encouraged it (even if it’s 6 inches deep!)

- Self-doubt: Am I crazy?

- Trying to do this by myself

Later that spring of 2019, I didn’t get very far...
Summer 2019

Some early plantings, seeds, and some stepping stones
A few perennials from my garden including: Mint, lemon balm, artemisia, hostas and more
Fall 2019

The garden began to feed butterflies, bees, hummingbirds, robins, and more.
Things that worked to establish the garden:

- Covering the grass with layers of cardboard
  - Remove tape and staples first
- Moving 6-8 inches of compost and soil on top of the cardboard provided enough nutrients and soil depth
- Break through the cardboard when planting plants with roots, even if the plant was going to be placed level
- Spreading seeds was cost efficient and satisfying
- I planted what I had to share from my own garden
- I learned I couldn’t do this by myself so I started talking to my neighbors and posted on Front Porch Forum to ask for plant divides
- The more I talked about it, the more people wanted to help so friends and Red Wagon Plants started to fill the back of my truck with plants
Spring 2020

It was time to expand with the help of Ward Preston and his daughters.

Two dump trucks full of composted manure was dumped at the garden. I had to place cardboard before spreading these piles.
Troubleshooting:

✓ Composted manure was dumped without thoroughly covering the area with cardboard and newspaper

✓ I began to move manure in key spots, add the cardboard and push the manure back (this was exhausting work!)

✓ Adding some mulch was important to mitigate the issues caused by not putting down enough material to block the weeds

✓ Pulling poison parsnip and other invasive weeds early on was critical

✓ I marked areas where I saw milkweed coming up to preserve those host plants
Site preparation continues...
It’s easy and motivating to create a huge garden when you have plants.
Early Summer 2020
Thoughts behind planting:

- Planting groups of plants together (e.g. bee balm, hyssop)
- Allowing “wild” plants to seed themselves and grow
  - Milkweed
  - Aster
  - Chicory
- Plantings were placed close together (closer than the tags suggest) some provided shade to others
- I planted groundcovers to provide sustenance to pollinators, while providing a “living weedblock”
- Leaving “spent” plants up-even through the winter
Planting and hoping for the best...

Will these plants get run over?

Will butterflies and insects come?

Do I have host plants? The “right” plants to feed pollinators?

What do I have in my own garden that I can contribute?

Will one of my neighbors really hate this?

Will I be able to supply enough water to this site?

What if I end up spending my entire life down here at this garden?
Watering is starting to become an issue...
Summer 2020

Watering during the hot summer

- I purchased a water tank, filling it at neighbors houses
- I used a watering can in the beginning, later hooking a hose to the water tank
- Plantings were placed close together (closer than the tags suggest) some provided shade to others
- I planted groundcovers to provide sustenance to pollinators, while providing a “living weedblock”
Views of the butterfly gardens
Middle to late summer 2020
Features of the Butterfly Garden

➔ Designed to support butterflies throughout their lifecycle
  ◆ Host plants like milkweed support butterfly eggs
  ◆ Perennials that bloom at varied times throughout the season
  ◆ Planting sunflowers, zinnias, and cosmos support adult butterflies and birds

➔ Plantings are mostly perennials and a few shrubs

➔ The butterfly garden is near a plentiful water source for insects and wildlife

➔ Placing a bench at the garden site gives people a chance to sit and enjoy the garden

➔ The garden is now a Master Gardener site, which makes maintenance a little easier!

➔ Connecting to this garden is easy through Instagram!
Plant List:

**Perennials: Listed alphabetically by latin name**

- Agastache Scrophulariaefolia (Giant Purple Hyssop) E
- Anise Hyssop
- Artemisia 'Absinthium'
- Alcea rosea (hollyhock)
- Asclepias Incarnata (swamp milkweed)
- Asclepias Incarnata 'Ice Ballet' (swamp milkweed)
- Asclepias syriaca (Common Milkweed)
- Asclepias Tuberosa (Butterfly Weed) E
- Asclepias verticillata (Whorled Milkweed) E

  - Belamcanda chinensis (Blackberry Lily)
  - Baptisia Australis (False Indigo)
  - Diathus (Cheddar Pink)
  - Echinacea purpurea (purple coneflower)
  - Gentiana Lutea (Gentian)
  - Iris germanica (bearded iris)
  - Lobelia cardinalis (cardinal flower)
  - Nepeta (catmint)
  - Mentha spicata (spearmint)
  - Monarda didyma (bee balm)
  - Paeonia var. unknown (Peony)
  - Phlox paniculata 'david' (summer phlox)
  - Physostegia virginiana (Obedient Plant) E
  - Perovskia atriplicifolia (Russian sage)
  - Paeonia var. unknown (Peony)
  - Pycnanthemum pilosum (Mountain Mint)
  - Penstemon digitalis
  - Rudbeckia hirta (black-eyed susan)
  - Rudbeckia triloba 'prairie glow' (brown-eyed susan)
  - Stachys byzantina (lamb's ear)
  - Verbena rigida 'Santos'
  - Vernonia noveboracensis (ironweed)
  - Veronicastrum virginicum (Culver's Root) E
  - Wild Senna

**Shrubs:**

- Cephanlanthus occidentalis (buttonbush)
- Clethra alnifolia 'hummingbird' (hummingbird summersweet)
- Itea x 'Scentlandia' (Sweetspire)

**Annuals for 2021:**

- Zinnias
- Cosmos
- Sunflowers
- Marigolds

AND THEN SOME.....
The Butterfly Garden at the Quinlan Bridge
Charlotte, VT
And then I noticed this intersection...

I talked to my neighbors and we did this...
And there is another location here...

So I’m talking to my neighbors...
Why Plant Pollinator Gardens?

*The Thorns:*

- More than 25% of our NE native bee populations have disappeared or are threatened

- The iconic Monarch butterfly is on the threshold of collapse, with an 80% decline in just two decades and a 53% decline from 2019 numbers

- We could lose up to ⅓ of insect in two decades without immediate action

- 75% of the food WE eat is produced by pollinators

- Plants that benefit insects, especially native plants are disappearing from our “wild landscape” due to climate change and development

- Habitats are becoming increasingly fragmented leading to increased challenges for wildlife to find resources and shelter for survival
Why Plant Pollinator Gardens?

The Rose:

- Backyard habitats work! You can create a thriving ecosystem in your own backyard
- Planting perennials gardens will help cool down the planet
- Don’t stop with perennials and seeds: Planting trees support pollinators.
  - Oaks support can support over 500 species including insects, pollinators, and wildlife
- Planting for pollinators will help with greater yields in your veg garden
- I am not an expert or a trained horticulturist, anyone can do this
Who are the pollinators?
Planting for Pollinators
Hosting Pollinators
Habitat Management
So many pollinators...let’s learn to identify them

Resources:

- Inaturalist: https://www.inaturalist.org
- National Wildlife Federation: https://www.nwf.org/nativeplantfinder/
- Audubon: https://www.audubon.org
- Free Field Guides: VT Fish and Wildlife
  - Building backyard habitats

Art that Inspires:

- The Caterpillar Lab: https://www.thecaterpillarlab.org
- The Little Nuthatch: https://shop.katedolamore.com/collections/
So many pollinators...let’s learn their names

Bees, Hymenoptera
- Honey bees
- Bumblebees
- Carpenter bees (pests)
- Miner bees
- Leafcutter bees
- Mason bees
- Halticid bees

Wasps, Hymenoptera
- Yellowjackets/hornets (pests)
- Paper wasps/mud daubers
- Sphecid wasps
- Potter wasps

Flies, Diptera
- Hover/Syrphid flies
- Bee flies
- Tachinids
- Mosquitoes
- Blowflies

Butterflies + Moths, Lepidoptera
- Swallowtails
- Hawk moths (night fliers)
- Fritillary
- Skippers
- Monarchs
- Sulfurs

Beetles, Coleoptera, True bugs, Hemitera, Lacewings, Neuroptera
- Long-horned beetles

Lady beetles

Tumbling flower beetles
- Scarabs
- Orius bugs
- Lacewings
So many pollinators...let’s learn about them

Hymenoptera: Sawflies, Wasps, Bees, Ants
❖ Membranous hind wing attached to fore legs with hook
❖ Wide size range.
❖ Some active throughout season
❖ Adapted to different shape flowers
❖ Furry body to catch pollen
❖ Buzz pollination
❖ Some grab anthers and shake off pollen
❖ Need nectar

Honey bees (Apis mellifera)
❖ Social
❖ Queen 4-5 years
❖ Nest in managed hives or tree cavities or in walls
❖ Active early spring to late fall
❖ Fly up to 2 miles.
❖ Very efficient pollinators

Bumble Bees (Family Apidae)
❖ Colony, not aggressive. In rodent holes in ground
❖ 250 species world
❖ Queen lives 9-12 months (live through winter)
❖ ½ -1 “, Black, yellow, white, orange, very hairy
❖ Active spring to late fall Active spring to late fall
❖ Fly up to 1 mile
❖ Very efficient pollinators; critical to tomatoes

Carpenter bees (Family Apidae)
❖ Solitary, not aggressive
❖ Queen lives 3 years, 1-2 generations/year
❖ ½- 1 ¼”; Black, yellow, white, orange; shiny black abdomen
❖ Nest in wood or stems
❖ Active mid summer- fall
❖ Fly up to 1 mile

Mason Bees (Megachilidae)
❖ Solitary, not aggressive
❖ 1 generation/year
❖ Nest in cavities in wood or rock; use mud to line nest
❖ < ¼”, metallic blue, green, black, somewhat hairy
❖ Fly up to 300 feet.
❖ Very efficient pollinators

Leafcutter Bees (Megachilidae)
❖ Solitary, not aggressive
❖ Build nest with pieces of leaves in cavities in wood and in stems
❖ < ¼”, dark gray to black
❖ Active early –late summer
❖ Fly up to 170 feet
### VT Pollinator Habitat Plant Palette

**Updated 11 Dec 18**

- **Jane Sorensen**
- **Northeast Pollinator Plants, VT**

**GC = Ground Cover**

**Info. Source:** Xerces, Lady Bird Johnson Wildflower Center, USDA Plants

#### PERENNIALS for Gardens: long-lasting, minimal spreading and reseeding

<table>
<thead>
<tr>
<th>Plant Name</th>
<th>GC</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>Aug.</th>
<th>Sept.</th>
<th>Sun/Sh Value</th>
<th>Bee/Butt Hum Host</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fragaria virginiana</td>
<td>GC</td>
<td>4&quot;-6&quot;</td>
<td>Red</td>
<td>Wild strawberry</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>tasty ground cov.</td>
<td></td>
</tr>
<tr>
<td>Penstemon digitalis</td>
<td>3&quot;-5&quot;</td>
<td>Red</td>
<td>beartongue</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>clump, butt mag.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geranium maculatum</td>
<td>1'-1.5'</td>
<td>Red</td>
<td>cranesbill</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>some self-seeding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aruncus dioicus</td>
<td>3'-6'</td>
<td>Red</td>
<td>goatsbeard</td>
<td>sha/pant</td>
<td>X</td>
<td>X</td>
<td>statuesque</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tradescantia xohiens</td>
<td>2'-3'</td>
<td>Red</td>
<td>Ohio spiderwort</td>
<td>par/sha</td>
<td>X</td>
<td>X</td>
<td>moist, shade</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Actea racemosa</td>
<td>4'-6'</td>
<td>Red</td>
<td>black cohosh</td>
<td>sha/pantX</td>
<td>X</td>
<td>X</td>
<td>sweet scent</td>
<td></td>
<td></td>
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<tr>
<td>Coreopsis lanceolata</td>
<td>3'-2'</td>
<td>Red</td>
<td>cone flower</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>a bit short-lived</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oenothera pilosella</td>
<td>1'-2'</td>
<td>Red</td>
<td>meadow evening primrose</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>mat-form, spread</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Penstemon hirsutus</td>
<td>1.5'-2'</td>
<td>Red</td>
<td>hairy beartongue</td>
<td>sun/sha</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>some self-seeding</td>
<td></td>
</tr>
<tr>
<td>Ratibida pinnata</td>
<td>3'-5'</td>
<td>Red</td>
<td>yellow coneflower</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>some self-seeding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Echinacea purpurea</td>
<td>2'-5'</td>
<td>Red</td>
<td>purple coneflower</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>a bit short-lived</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baptisia australis</td>
<td>1'-5.5'</td>
<td>Red</td>
<td>blue wild indigo</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>love this</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eryngium yuccifolium</td>
<td>1'-5'</td>
<td>Red</td>
<td>bluebeard mist</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>excellent for pollins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allium ceumarum</td>
<td>1'-1.5'</td>
<td>Red</td>
<td>nodding onion</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>some self-seeding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dalea purpurea</td>
<td>1'-3'</td>
<td>Red</td>
<td>prairie clover</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>some self-seeding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liatris spicata</td>
<td>blazing star</td>
<td>2'-4'</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>nice cut too</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monarda didyma</td>
<td>scarlet beebalm</td>
<td>2'-4'</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>spreads but value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eupatadielphus maculatum</td>
<td>joe-pye weed</td>
<td>3'-6'</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>common, valuable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eutrochium purpureum</td>
<td>sweet Joe-pye weed</td>
<td>5'-7'</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>tolerates moister</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agastache foeniculum</td>
<td>anise hyssop</td>
<td>3'-5'</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>great plant</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salvia azurea</td>
<td>blue sage</td>
<td>3'-5'</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>border line hardy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monarda fistulosa</td>
<td>wild bergamot</td>
<td>2'-4'</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>spreads but value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monarda media</td>
<td>purple bergamot</td>
<td>2'-3'</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>deep purple</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pycnanthemum tenuifolium</td>
<td>slender mountain mint</td>
<td>2'-3'</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>spreads but value</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Senna hebecarpa</td>
<td>wild senna</td>
<td>3'-7'</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>some self-seeding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solidago caesia</td>
<td>blue-stemmed goldenrod</td>
<td>1.5'-3'</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>some self-seeding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Helianthus autumnale</td>
<td>sneeze weed</td>
<td>3'-5'</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>statuesque</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Helianthus giganteus</td>
<td>giant sunflower</td>
<td>5'-10'</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>slow spreading</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liatris spicata</td>
<td>rough blazing star</td>
<td>2'-3'</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>slow spreading</td>
</tr>
<tr>
<td>Vernonia noveboricense</td>
<td>new york ironweed</td>
<td>4'-6'</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>border line hardy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chelone glabra</td>
<td>white turtlehead</td>
<td>2'-3'</td>
<td>sun/sha</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>can do shade</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eupatadielphus perfoliatum</td>
<td>common boneset</td>
<td>4'-6'</td>
<td>sun/pantX</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>common, valuable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Symphyotrichum novae-angliae</td>
<td>new england aster</td>
<td>3'-6'</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>great late color</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Symphyotrichum cordifolium</td>
<td>blue wood aster</td>
<td>2'-5'</td>
<td>sun/sha</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>can do shade</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Symphyotrichum ericoides</td>
<td>heath aster</td>
<td>1'-3'</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>delicate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Symphyotrichum laeae</td>
<td>smooth blue aster</td>
<td>2'-4'</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>great late color</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Symphyotrichum novi-belgii</td>
<td>new york aster</td>
<td>3'-4'</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>great late color</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plant Name</td>
<td>GC=Ground Cover</td>
<td>Info. Source: Xerces, Lady Bird Johnson Wildflower Center, USDA Plants</td>
<td>Bee Butt Hum Host</td>
<td>Notes</td>
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</tr>
<tr>
<td>Dicentra cucullaria</td>
<td>Dutchman’s breeches</td>
<td>part/sha X</td>
<td>white bleeding hrt</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baptisia tinctoria</td>
<td>Yellow wild indigo</td>
<td>sun/part X</td>
<td>X</td>
<td>X hard to germinate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polenonium reptans</td>
<td>creeping Jacob’s ladder</td>
<td>sun X</td>
<td>prolific reseeder</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prunella vulgaris GC</td>
<td>Self-heal</td>
<td>sun/part X</td>
<td>nice/low/early/low.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Erigeron pulchellus</td>
<td>Robin’s Plantain</td>
<td>sun/part X</td>
<td>avoid rich soils</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zizia aurea</td>
<td>Golden zizia</td>
<td>sun X</td>
<td>X</td>
<td>X prolific reseeder</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Aquilegia canadensis</td>
<td>Canada columbine</td>
<td>sun/part X</td>
<td>X</td>
<td>X X short-lived/reseeds</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Echinacea pallida</td>
<td>Pale purple coneflower</td>
<td>sun/part X</td>
<td>narrow pets, reseed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Asclepias purpurascens</td>
<td>Purple milkweed</td>
<td>sun X</td>
<td>X</td>
<td>deep rose flowers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verbena stricta</td>
<td>Wooly verbena</td>
<td>sun X</td>
<td>X</td>
<td>X X prolific reseeder</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Achillea millefolium</td>
<td>Yarrow</td>
<td>sun X</td>
<td>X</td>
<td>tends to flop</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Rudbeckia hirta</td>
<td>Black-eyed susan</td>
<td>sun X</td>
<td>X</td>
<td>X short-lived/reseeds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anaphalis marginata</td>
<td>Common milkweed</td>
<td>sun/part X</td>
<td>grey foliage</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asclepias syriaca</td>
<td>Poke milkweed</td>
<td>sun/part X</td>
<td>X</td>
<td>X host to Monarchs</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Asclepias exaltata</td>
<td>Swamp milkweed</td>
<td>sun/part X</td>
<td>X</td>
<td>X host to Monarchs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drymocallis [Potentilla] arguta</td>
<td>Tall cinquefoil</td>
<td>sun/part X</td>
<td>X</td>
<td>great for pest contr.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Chamerion angustifolium</td>
<td>Fireweed</td>
<td>sun/part X</td>
<td>X</td>
<td>prolific reseeder</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Glycyrrhiza lepidota</td>
<td>Wild licorice</td>
<td>sha/part X</td>
<td>X</td>
<td>deer like, not candy</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Desmodium canadense</td>
<td>Showy tick trefoil</td>
<td>sun/part X</td>
<td>X</td>
<td>X X prolific reseeder</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Euthamia graminifolia</td>
<td>Flat-top goldenrod</td>
<td>sun X</td>
<td>X</td>
<td>a billyow goldenrod</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lysimachia ciliata</td>
<td>Fringe loosestrife</td>
<td>sun/part X</td>
<td>X</td>
<td>wet, aggressive spr</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mentha arvensis</td>
<td>Wild mint</td>
<td>sha X</td>
<td>part/sha X</td>
<td>crazy spreader moist, toxic fruit</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Artemisia ludoviciana</td>
<td>Silver wormwood</td>
<td>sun X</td>
<td>X</td>
<td>nesting for bees</td>
<td></td>
<td></td>
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<tr>
<td>Helianthus strumosus</td>
<td>Pale-leaved sunflower</td>
<td>sun/part X</td>
<td>X</td>
<td>aggressive spread</td>
<td></td>
<td></td>
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<tr>
<td>Rudbeckia laciniata</td>
<td>Green-headed coneflower</td>
<td>sun/part X</td>
<td>X</td>
<td>aggressive spread</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Symphyotrichum puniceum</td>
<td>Swamp aster</td>
<td>sun X</td>
<td>X</td>
<td>moist-wet</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Collinsonia canadensis</td>
<td>Horsebalm</td>
<td>part sha X</td>
<td>X</td>
<td>glossy leaves</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Verbena hastata</td>
<td>Blue verbenia</td>
<td>sun X</td>
<td>X</td>
<td>X self-seed/spread</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solidago speciosa</td>
<td>Showy goldenrod</td>
<td>sun X</td>
<td>X</td>
<td>showiest gladred</td>
<td></td>
<td></td>
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<tr>
<td>Helianthus x laetiflorus</td>
<td>Cheerful sunflower</td>
<td>sun X</td>
<td>X</td>
<td>aggressive spread</td>
<td></td>
<td></td>
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<tr>
<td>Eurybia macrophylla</td>
<td>Big-leaf aster</td>
<td>sun/sha X</td>
<td>X</td>
<td>X a woodland beauty</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Solidago canadensis</td>
<td>Canadian goldenrod</td>
<td>sun/part X</td>
<td>X</td>
<td>X self-seed/spread</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Plant Name</td>
<td>May</td>
<td>June</td>
<td>July</td>
<td>Aug.</td>
<td>Sept.</td>
<td>Sun/Sh</td>
<td>Value</td>
<td>Notes</td>
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<td></td>
</tr>
<tr>
<td>Acer rubrum</td>
<td>40'-60'</td>
<td>red maple</td>
<td></td>
<td></td>
<td></td>
<td>sun/partX</td>
<td>X</td>
<td>X great tree</td>
<td></td>
</tr>
<tr>
<td>Betula species</td>
<td>20'-70'</td>
<td>birch</td>
<td></td>
<td></td>
<td></td>
<td>sun</td>
<td>X</td>
<td>X high larval host</td>
<td></td>
</tr>
<tr>
<td>Celtis occidentalis</td>
<td>40'-60'</td>
<td>hackberry</td>
<td></td>
<td></td>
<td></td>
<td>sun</td>
<td>X</td>
<td>X see Main Street</td>
<td></td>
</tr>
<tr>
<td>Fagus grandiflora</td>
<td>50'-100'</td>
<td>beech</td>
<td></td>
<td></td>
<td></td>
<td>sun/part</td>
<td>X</td>
<td>X high larval host</td>
<td></td>
</tr>
<tr>
<td>Populus tremuloides</td>
<td>40'-50'</td>
<td>aspen</td>
<td></td>
<td></td>
<td></td>
<td>sun/part</td>
<td>X</td>
<td>X nice in groves</td>
<td></td>
</tr>
<tr>
<td>Prunus americana</td>
<td>15'-25'</td>
<td>american plum</td>
<td></td>
<td></td>
<td></td>
<td>sun/partX</td>
<td>X</td>
<td>X woods edge</td>
<td></td>
</tr>
<tr>
<td>Prunus serotina</td>
<td>50'-60'</td>
<td>black cherry</td>
<td></td>
<td></td>
<td></td>
<td>sun/partX</td>
<td>X</td>
<td>X woods edge</td>
<td></td>
</tr>
<tr>
<td>Prunus virginiana</td>
<td>20'-30'</td>
<td>chokecherry</td>
<td></td>
<td></td>
<td></td>
<td>sun/partX</td>
<td>X</td>
<td>X woods edge</td>
<td></td>
</tr>
<tr>
<td>Quercus alba</td>
<td>50'-100'</td>
<td>white oak</td>
<td></td>
<td></td>
<td></td>
<td>sun</td>
<td>X</td>
<td>X high larval host</td>
<td></td>
</tr>
<tr>
<td>Quercus rubra</td>
<td>60'-75'</td>
<td>red oak</td>
<td></td>
<td></td>
<td></td>
<td>sun</td>
<td>X</td>
<td>X high larval host</td>
<td></td>
</tr>
<tr>
<td>Sassafras albidum</td>
<td>35'-50'</td>
<td>common sassafrass</td>
<td></td>
<td></td>
<td></td>
<td>sun/part</td>
<td>X</td>
<td>X root beer</td>
<td></td>
</tr>
<tr>
<td>Tilia americana</td>
<td>60'-80'</td>
<td>linden</td>
<td></td>
<td></td>
<td></td>
<td>sun/partX</td>
<td>X</td>
<td>X good honey tree</td>
<td></td>
</tr>
<tr>
<td>Amelanchier species</td>
<td>12'-36'</td>
<td>juneberry</td>
<td></td>
<td></td>
<td></td>
<td>sun/shaX</td>
<td>X</td>
<td>my favorite</td>
<td></td>
</tr>
<tr>
<td>Cercis canadensis</td>
<td>20'-30'</td>
<td>redbud</td>
<td></td>
<td></td>
<td></td>
<td>sun/shaX</td>
<td></td>
<td>wow color</td>
<td></td>
</tr>
<tr>
<td>Cornus florida</td>
<td>20'-40'</td>
<td>flowering dogwood</td>
<td></td>
<td></td>
<td></td>
<td>sun/shaX</td>
<td>X</td>
<td>X warm microclime.</td>
<td></td>
</tr>
<tr>
<td>Crataegus species</td>
<td>12'-36'</td>
<td>native hawthorn</td>
<td></td>
<td></td>
<td></td>
<td>sun/shaX</td>
<td>X</td>
<td>X watch those thorns</td>
<td></td>
</tr>
<tr>
<td>Liriodendron tulipifera</td>
<td>70'-90'</td>
<td>tulip tree</td>
<td></td>
<td></td>
<td></td>
<td>sun</td>
<td>X</td>
<td>X big, but weak</td>
<td></td>
</tr>
<tr>
<td>Robinia pseudoacacia</td>
<td>30'-50'</td>
<td>black locust</td>
<td></td>
<td></td>
<td></td>
<td>sun</td>
<td>X</td>
<td>X bees love</td>
<td></td>
</tr>
<tr>
<td>Sorbus americana</td>
<td>15'-25'</td>
<td>american mountain ash</td>
<td></td>
<td></td>
<td></td>
<td>sun</td>
<td>X</td>
<td>Birds love fruit</td>
<td></td>
</tr>
<tr>
<td>Oxydendron arboreum</td>
<td>25'-30'</td>
<td>sourwood</td>
<td></td>
<td></td>
<td></td>
<td>sun/partX</td>
<td></td>
<td>warm microclime.</td>
<td></td>
</tr>
<tr>
<td>Herb Name</td>
<td>Description</td>
<td>Sunlight</td>
<td>Height</td>
<td>Perennial</td>
<td>Spread, Habit</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allium schoenoprasum</td>
<td>chives</td>
<td>sun/part</td>
<td>1' - 1.5'</td>
<td>perennial</td>
<td>Tap root, spreading</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thymus vulgaris (Zone 5-9)</td>
<td>english thyme</td>
<td>sun/part</td>
<td>2' - 2.5'</td>
<td></td>
<td>in warm microclim.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Symphytum officinale</td>
<td>comfrey</td>
<td>sun</td>
<td>3' - 5'</td>
<td></td>
<td>great mass, showy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nepeta faassenii</td>
<td>catmint</td>
<td>sun</td>
<td>1' - 2'</td>
<td></td>
<td>bees love</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salvia officinalis</td>
<td>common sage</td>
<td>sun/part</td>
<td>2' - 2.5'</td>
<td></td>
<td>grow as an annual</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Origanum majorana</td>
<td>sweet marjoram</td>
<td>sun/part</td>
<td>1' - 2'</td>
<td></td>
<td>grow as an annual</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anethum graveolens</td>
<td>dill</td>
<td>sun/part</td>
<td>1' - 3'</td>
<td></td>
<td>reseeds readily</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Borage officinale</td>
<td>borage</td>
<td>sun</td>
<td>2' - 3'</td>
<td></td>
<td>reseeds readily</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foeniculum vulgare</td>
<td>fennel</td>
<td>sun</td>
<td>4' - 6'</td>
<td></td>
<td>in warm microclim.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lavandula spp. (Zone 5-7)</td>
<td>lavender</td>
<td>sun/part</td>
<td>1' - 3'</td>
<td></td>
<td>spreads, contain it</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melissa officinalis</td>
<td>lemon balm</td>
<td>sun/part</td>
<td>1.5' - 3'</td>
<td></td>
<td>spreads, contain it</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mentha spp.</td>
<td>mints</td>
<td>sun/part</td>
<td>0.5' - 3'</td>
<td></td>
<td>spreads, contain it</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Origanum vulgare</td>
<td>wild oregano</td>
<td>sun/part</td>
<td>1'</td>
<td></td>
<td>garlicky, bees love.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Allium tuberosum</td>
<td>garlic chives</td>
<td>sun/part</td>
<td>1' - 2'</td>
<td></td>
<td>biennial, moist</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Angelica archangelica</td>
<td>garden angelica</td>
<td>sun/part</td>
<td>4' - 6'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plant Name</td>
<td>May</td>
<td>June</td>
<td>July</td>
<td>Aug.</td>
<td>Sept.</td>
<td>Sun/Sh Value</td>
<td>Notes</td>
<td></td>
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<td>--------------------------------------------</td>
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<td></td>
</tr>
<tr>
<td>Lobularia maritima</td>
<td>.25'-.75'</td>
<td>alyssum</td>
<td>sun/parl X</td>
<td></td>
<td></td>
<td></td>
<td>sweet odor, bee mag</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salvia coccinea</td>
<td>1'-2'</td>
<td>salvia</td>
<td>sun/parl X</td>
<td>X X</td>
<td></td>
<td></td>
<td>reseeds, nice plant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lantana camara</td>
<td>1'-2'</td>
<td>lantana</td>
<td>sun</td>
<td></td>
<td></td>
<td></td>
<td>butterflies will flock!</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinnia spp.</td>
<td>.5'-2'</td>
<td>zinnia</td>
<td>sun</td>
<td>X X</td>
<td></td>
<td></td>
<td>all colors, bees love</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cuphea spp.</td>
<td>.5'02'</td>
<td>wi</td>
<td>sun/parl X</td>
<td>X X</td>
<td></td>
<td></td>
<td>hummingbirds!!!</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dianthus spp.</td>
<td>.25'-.1.5'</td>
<td>garden pink</td>
<td>sun/parl X</td>
<td>X X</td>
<td></td>
<td></td>
<td>beauty, attracts all</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimorphotheca (Osteospermum) sp</td>
<td>1'-1.5'</td>
<td>african daisy</td>
<td>sun/parl X</td>
<td>X</td>
<td></td>
<td></td>
<td>cool season flowers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centaurea cyanus</td>
<td>1'-3'</td>
<td>bachelors buttons</td>
<td>sun</td>
<td>X X</td>
<td></td>
<td></td>
<td>avoid invas.per.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calendula officinalis</td>
<td>.5-1.5'</td>
<td>calendula</td>
<td>sun</td>
<td>X X</td>
<td></td>
<td></td>
<td>attracts beneficiais</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Portulaca oleracea</td>
<td>.25-.5'</td>
<td>portulaca</td>
<td>sun</td>
<td>X</td>
<td></td>
<td></td>
<td>hot dry sun</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cleome hassleriana</td>
<td>1'-4'</td>
<td>cleome</td>
<td>sun</td>
<td>X X</td>
<td></td>
<td></td>
<td>hot, dry sun</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dahlia spp.</td>
<td>1'-4'</td>
<td>dahlia</td>
<td>sun/parl X</td>
<td>X X</td>
<td></td>
<td></td>
<td>lots colors, easy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tagetes</td>
<td>.5'-4'</td>
<td>marigold</td>
<td>sun</td>
<td>X</td>
<td></td>
<td></td>
<td>butters/hum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Helianthus (NO treated seeds)</td>
<td>5'-8'</td>
<td>sunflowers</td>
<td>sun</td>
<td>X X</td>
<td></td>
<td></td>
<td>hot, dry, sun, bees</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amaranthus spp.</td>
<td>1'-7'</td>
<td>amaranthus</td>
<td>sun</td>
<td>X</td>
<td></td>
<td></td>
<td>back of border</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tithonia rotundifolia</td>
<td>4'-6'</td>
<td>mexican sunflower</td>
<td>sun</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Annuals for Gardens, Containers and Beds - non-native, but plentiful pollen or nectar to provide extra foraging.**

**NATIVE ANNUALS - tend to be very aggressive reseeders, plant one to have a colony, good for meadows.**

<table>
<thead>
<tr>
<th>Plant Name</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>Aug.</th>
<th>Sept.</th>
<th>Sun/Sh Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collinsia parviflora</td>
<td>.5'-1'</td>
<td>maiden blue-eyed mary</td>
<td>prat/shd X</td>
<td></td>
<td></td>
<td></td>
<td>dainy, early flowers</td>
</tr>
<tr>
<td>Clarkia pulchella</td>
<td>.5-1.5'</td>
<td>deerhorn clarkia</td>
<td>sun</td>
<td>X</td>
<td></td>
<td></td>
<td>for cottage garden</td>
</tr>
<tr>
<td>Gaillardia pulchella</td>
<td>indian blane 1'-1.5'</td>
<td></td>
<td>sun</td>
<td>X X</td>
<td></td>
<td></td>
<td>Great annual</td>
</tr>
<tr>
<td>Impatiens capensis</td>
<td>jewelweed</td>
<td>2'-5'</td>
<td>sun/parl X</td>
<td>X X</td>
<td>X</td>
<td></td>
<td>Wild annual, wetil</td>
</tr>
<tr>
<td>Cleome [Peritoma] serrulata</td>
<td>rocky mtn beeplant 3'-6'</td>
<td>sun/parl X</td>
<td></td>
<td>X X</td>
<td></td>
<td></td>
<td>showy, reseed</td>
</tr>
<tr>
<td>Chamaecrista fasciculata</td>
<td>partidge pea</td>
<td>1'-3'</td>
<td>sun</td>
<td>X</td>
<td>X</td>
<td></td>
<td>great as cover crop.</td>
</tr>
<tr>
<td>Oenothera biennis</td>
<td>common evening primrose</td>
<td>2'-6'</td>
<td>sun/shd X</td>
<td></td>
<td>X</td>
<td></td>
<td>short-lived, reseeds</td>
</tr>
<tr>
<td>Bidens frondosa</td>
<td>common beggarticks</td>
<td>1'-3'</td>
<td>sun</td>
<td>X</td>
<td></td>
<td></td>
<td>bees, reseed</td>
</tr>
</tbody>
</table>
Hosting Pollinators

Supporting Bumble Bees

- In the past 100 years more than half of Vermont’s bumble bees have either vanished or are in severe decline
- 4 of 17 bumble bee species have gone extinct

How to help:

- Mulch with compost or leaf litter so bumble bees can emerge successfully from the garden
- Leave a messy garden
- Leave up hollow stalks for a variety of bees to nest and emerge in spring

Resources:
- Vermont Center for EcoStudies: Vermont Atlas of Life, Bumble Bee ID
- Xerces.org
- Gund Center (UVM)
Hosting Pollinators

Bumble Bees:

Nectar for Bumble Bees

❖ Early bulbs
   Crocus
   Glory of the snow

❖ Summer
   Milkweed
   Culver’s Root
   Wild Senna
   Mints

❖ Fall
   Goldenrod
   Aster
   Ironweed

And so much more...
Hosting Pollinators: Monarchs

Supporting Monarchs

How to help:

IpAddress

Grow milkweed
  ○ Monarch caterpillars only eat milkweed

Leave up goldenrod and aster

Support and report sightings to organizations like Journey North

Resources:

○ Vermont Center for Ecological Studies
  Bumble Bee ID

○ Xerces.org
Hosting Pollinators: Great Spangled Fritillary

*Conservation Status*

- Common

*What to grow to host:*

- Wild and cultivated violets

*Nectar Sources:*

- Joe pye weed
- Echinacea

*Resources:*

- Vermont Center for Ecostudies
Hosting Pollinators: Swallowtails

Conservation Status

- Increasing numbers of Eastern Giant Swallowtails due to climate change, the host plant and caterpillars are “overwintering”
- Eastern Tiger is uncommon, but has been documented in Vermont
- Spicebush Swallowtail is rare as is the pipevine
- Black Swallowtails are common

What to grow to host:

- Eastern Giant Swallowtail: Northern Prickly-ash
- Eastern Tiger Swallowtail: Birch, ash, cottonwood, willow
- Pipevine Swallowtail: Dutchman’s pipe
  - This is a very rare butterfly
- Spicebush Swallowtail: Spicebush
- Black Swallowtails: Wild and cultivated members of the parsley family, angelica, zizia

Nectar Sources:

- Eastern Giant Swallowtail: tends to be generalists
- Easter Tiger Swallowtail: tends to be generalists
- Pipevine Swallowtail: nectar from flowers, including thistles (Cirsium), bergamot, lilac, viper’s bugloss, common azaleas, phlox, teasel, dame’s rocket, lantana, petunias, verbenas, lupines
- Spicebush Swallowtail: Honeysuckle, clover, thistle, however tend to be generalists
- Black Swallowtails: Milkweed, thistle, clovers

Resources:

- Vermont Center for Ecostudies
- Doug Tallamy
- National Wildlife Federation
Hosting Pollinators: Mourning Cloak

**Conservation Status**

- Common

**What to grow to host:**

- Hackberry
- Birch
- Poplars
- Nettles
- Willow
- Elm

**Nectar Sources:**

- Various nectar sources, mud, fruit

**Resources:**

- Vermont Center for Ecostudies
Hosting Pollinators: Cloudless Sulphur

Conservation Status

atism Common

What to grow to host:

atism Wild senna
atism Cassia

Nectar Sources:

atism Prefer red, orange, and purple flowers

Resources:

atism U.S. Forest Service
We Can Do This

You are part of the solution

- Building pollinator gardens is similar to creating a food shelf for some of our planet’s most vulnerable and important species: They need us right now, before it’s too late.
- As you build compost piles, your compost can translate directly to a garden resource.
- Planting trees, specifically oaks that can support over 500 species (over ⅓ of oaks are endangered).
- You may find you clean up garbage and recycling in your local environment.
- You might find yourself purchasing products that contribute to your compost pile, not your landfill.
- You might plant pollinator gardens in public places and/or help and inspire your neighbors to plant pollinator-centric gardens.
Once you have created your garden get it listed:

This is a movement and you are among friends:

- **Homegrown National Park**
- **Pollinator Pathways**
“This other Eden, demi-paradise, This fortress built by Nature for herself Against infection and the hand of war, This happy breed of men, this little world, This precious stone set in the silver sea, Which serves it in the office of a wall Or as a moat defensive to a house, Against the envy of less happier lands,--This blessed plot, this earth, this realm...Vermont.”

~William Shakespeare