**Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.**

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**Asclepias incarnata**

swamp milkweed

Other common names include: rose milkweed

### Bloom Period:

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### Plant Characteristics:

**Duration:** Perennial

**Type:** Herb

**Size:** 2-5’ tall

**Leaf:** Opposite; up to 6” long and 1½” wide, but typically about 3” long and ½” wide; hairless and toothless, tapering to a point at the tip on a short petiole. Upper leaf surfaces are medium to dark green, although they can become yellowish green or pale green in response to bright sunlight and hot dry conditions.

**Stem:** Mostly hairless but may have lines of fine hairs in the upper plant.

**Flower:** Upper stems terminate in pink clusters of flowers spanning about 2-3½” across. Each flower is about ¼” across, consisting of 5 upright whitish hoods and 5 surrounding pink petals that droop downward in the manner of most milkweeds.

**Seed collection:** Late September [2]

### What it can be confused with:

Swamp milkweed is easily distinguished from other milkweeds (*Asclepias* spp.) by its erect umbels of pink flowers, tall branching habit, and relatively narrow leaves. Other milkweeds with pink flowers, such as *Asclepias syriaca* (common milkweed) and *Asclepias sullivantii* (prairie milkweed), are shorter and less branched plants with wider leaves. Sometimes stray plants of swamp milkweed occur in drier areas; these specimens are usually much shorter and little branched, but their leaves remain narrow in shape. [3]

### Known Pollinators:

Hummingbirds, honey bees, native bees, flies, wasps, butterflies, and skippers. [3,4]

### Larval Host:

Monarch and queen butterflies. [4]

---


© Pollinator Partnership 2019
Asclepias incarnata
swamp milkweed

Small pink and white flowers

Cluster of pink and white flowers

Opposite leaves

Multiple stems per plant

Mature seed pods

Cleaned Seeds

3-4” long, narrow, tear-shaped seed pod with a smooth surface

© Pollinator Partnership 2019
Asclepias incarnata
swamp milkweed

SWAMP MILKWEED COULD BE CONFUSED WITH:

Asclepias suivanntii - prairie milkweed

- Larger flowers, with fewer flowers per cluster.
- Seed pods are wider, with a smooth to bluntly warty surface.
- Wider, fleshy, hairless leaves, which are often angled upward.
- One main stem per plant.

Asclepias syriaca - common milkweed

- Wider leaves with a pubescent underside.
- Seed pods are wider with a distinctly warty surface.
- One main stem per plant.
Asclepias incarnata
swamp milkweed

SWAMP MILKWEED COULD BE CONFUSED WITH:

Apocynum cannabinum - common dogbane

Long, thin seed pods, similar in shape and size to a vanilla bean.

Multiple hairless reddish-brown stems per plant.

White flowers with only forward facing petals.

Smaller and thinner seeds.

© Pollinator Partnership 2019

Special thanks to: Project Wingspan’s additional core partners - Michigan State University, Michigan DNR, and Pennsylvania DOT and our sponsor - Commonwealth Edison

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**Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.**


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**Plant Characteristics:**

**Duration**: Perennial  
**Type**: Forb  
**Size**: 3-5’ tall  
**Leaf**: Opposite; up to 8” long and 3.5” wide; oblong with smooth margins, the upper leaf surface is pale-medium to dark green and hairless above, lower leaf surface is densely covered with woolly hairs that are very short; prominent central vein; if damaged, milky sap is released.  
**Stem**: Central stem is stout, pale green, unbranching (except sometimes at the tip near the flowers) and usually covered in small, short hairs.  
**Flower**: Umbels of flowers, each about 2½-4” across, emerge from the axils of the upper leaves. These flowers are fragrant and range in color from faded light pink to reddish purple. Each flower is about ¼” across, consisting of 5 reflexed petals and 5 raised hoods with curved horns. The hoods are more light-colored than the petals. The pedicels (flower stem) of the flowers are light green to pale red and hairy.  
**Seed collection**: Late September - October

**What it can be confused with:**

Common milkweed can be distinguished from other milkweeds by its warty seedpods – other Asclepias spp. within the ecoregion have seedpods which are smooth, or nearly so. The leaves of swamp milkweed are more narrowly lanceolate than those of common milkweed. Prairie milkweed is similar in having one main stem and large leaves, but it is hairless, unlike the common milkweed which has small hairs on the stems and undersides of the leaves. [2]

**Known Pollinators:**

Honey bees, native bees, flies, wasps, butterflies, moths, and skippers. [2,3]  
**Larval Host**: Monarch and milkweed tiger moth. [2,3]  

---


© Pollinator Partnership 2019
Asclepias syriaca
common milkweed

Flowers grow from the axil of upper leaves

Single stem per plant

Opposite leaves

Leaves have a prominent central vein

Stems and leaf bottoms are covered in small hairs

Immature seed pods

Seed pods are 3-4” long with a warty surface

Cleaned Seeds

Small, light and dark pink flowers

© 2008 k. chayka

Dan Tenaglia, Missouri Plants

John Hilty, Illinois Wildflowers

Prairie Moon Nursery

© Pollinator Partnership 2019
**Asclepias syriaca**
common milkweed

**COMMON MILKWEED COULD BE CONFUSED WITH:**

**Asclepias sullivantii** - prairie milkweed

![Comparison image of Asclepias sullivantii and common milkweed](image1)

- Fleshy, hairless leaves, which are often angled upward.
- Larger flowers, with fewer flowers per cluster.
- Seed pods are similar in size, but are clearly distinguishable by the smooth to bluntly warty surface.

**Asclepias incarnata** - swamp milkweed

![Comparison image of Asclepias incarnata and common milkweed](image2)

- Long, narrow, hairless leaves.
- Multiple stems per plant.
- Stems terminate in clusters of small pink and white flowers.
- Seed pods are more narrow with a smooth surface.

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PROJECT WINGSPAN - PLANT PROFILE

Asclepias tuberosa
butterfly milkweed

Other common names include: butterfly weed, orange milkweed, pleurisy root, chigger flower

Bloom Period:

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Plant Characteristics:

Duration: Perennial
Type: Herb
Size: 1-2½’ tall
Leaf: Mostly alternate-sometimes opposite; 2½-3½” long and ½-¾” wide; toothless, narrow to slightly oblong, finely hairy especially along the veins on the underside. Upper leaf surfaces are medium to dark green, while the lower leaf surfaces are light to light-medium green and covered in short hairs. Leaves are sessile or have short petioles (leaf stem).
Stem: One or multiple stems, unbranched below, becoming branched near the flower. Light green to reddish purple, round, and densely hairy. Foliage does not have milky latex.
Flower: Upper stems terminate in flat orange clusters of 8-25 flowers spanning about 1-2½” across. Each flower consists of 5 upright orange hoods and 5 downward-curved petals which flare out beneath, in the manner of most milkweeds.
Seed collection**: Late September-Late October [2]

What it can be confused with:
Butterfly milkweed, one of the showiest milkweeds, is easy to identify by the long-lasting orange flowers. Unlike other milkweeds, it has alternate leaves and lacks milky latex. Erect seed pods are also easily identifiable; with a smooth and pubescent surface that starts as light green, but later turn a reddish-brown. [3]

Known Pollinators:
Butterflies, bumble bees, other native bees, honey bees, wasps, and hummingbirds. [3,4]

Larval Host: Monarch, grey hairstreak, and queen butterflies; unexpected cyncia and preceding moths. [3, 4]

** Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.

© Pollinator Partnership 2019
Asclepias tuberosa
butterfly milkweed

- 5-petaled orange flowers
- Shorter, bushier appearance from other Asclepias spp.
- Smooth leaf margin
- Maturing seed pods
- Pods turn reddish-brown with maturity
- Alternate leaves with short or no leaf stem
- 4-6” long, smooth, and covered in short white hairs
- Dense hair on stem

Dan Tenaglia, Missouri Plants
Prairie Moon Nursery
Cleaned Seeds

Amber Barnes
© Pollinator Partnership 2019
Asclepias tuberosa
butterfly milkweed

BUTTERFLY WEED COULD BE CONFUSED WITH:

Asclepias incarnata - swamp milkweed

Asclepias syriaca - common milkweed

The tall, large-leaved, single stemmed plant, with roundish clusters of inflorescence are very distinct from A. tuberosa.

Seed pods on older or leafless stems can be differentiated by their large, wide shape, and distinctly warty surface.

Special thanks to: Project Wingspan’s additional core partners - Michigan State University, Michigan DNR, and Pennsylvania DOT and our sponsor - Commonwealth Edison

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Plant Characteristics:

**Duration**: Annual  
**Type**: Herb  
**Size**: 1-3’ tall  
**Leaf**: Alternate, pinnately compound. Medium to dark green. Petioles with nectaries. Each compound leaf has up to 20 leaflets, which are hairless, oblong, and roughly 2/3” long and 1/3” wide.  
**Stem**: Shorter plants are erect while larger plants tend to sprawl. Stems are slender and hairless, and are light green at first but become reddish brown.  
**Flower**: Flowers are bright yellow and irregular, appearing on 1/3” flower stalks along major stems near leaf axils. Flowers are 1” wide with 5 rounded petals and approximately 10 ruddy stamens. No scent. [3]  
**Seed collection**: Early September [2].

What it can be confused with:

Sometimes confused with *Chamaecrista nictitans* (sensitive partridge pea) which can be distinguished by its flowers (which are smaller in size - about 1/3” across, have 5 stamens, and appear on 1/10” flower stalks), as well as its leaves, which are sensitive to the touch and will fold when contacted. [5]

Known Pollinators:

Honey bees, native bees, flies, wasps, ants, butterflies. [4, 5]

Larval Hosts:

Several species of sulfur butterflies feed on the foliage. [3]

---

Chamaecrista fasciculata
partridge pea

5 petals and about 10 stamens

Leaves are alternate in arrangement

Flowers appear near leaf axils

Pinnately compound leaves

Mature seed pods are brown and ready to split open, while immature pods are green

Cleaned Seeds
**Chamaecrista fasciculata**
partridge pea

**PARTRIDGE PEA COULD BE CONFUSED WITH:**

*Chamaecrista nictitans* - sensitive partridge pea

Keys to distinguishing sensitive partridge pea from partridge pea:
- Flowers are slightly smaller.
- Flowers contain fewer stamens: 5 vs. 10.
- Leaves are sensitive to the touch and will fold if something comes in contact with them vs. leaves that are not sensitive to the touch but fold in the evening.

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**Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.**


**Other common names include: eastern purple coneflower**

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**Plant Characteristics:**

**Duration:** Perennial  
**Type:** Herb  
**Size:** 2-4’ tall  
**Leaf:** Mostly alternate, sometimes opposite; up to 6” long and 3” wide, becoming smaller higher on the stems; toothed with small hairs, broader at the base and tapering at the apex. Upper leaf surfaces are olive or dark green. Petioles are short and slightly winged. On occasion, the leaves may have a smooth margin (no teeth).  
**Stem:** Light green, occasionally branching with small purple streaks and scattered white hairs.  
**Flower:** Upper stems terminate in individual daisy-like flowerheads spanning about 2½-4” across on flowering stalks, up to 8” long. Each flowerhead consists of 10-20 ray florets surrounding a large central cone of disk florets. Rays are purple, drooping downward with age, and typically ¼ to ¾” wide; disks flowers are small and yellowish or reddish brown. [2,3]  

**Seed collection**: Mid September - Late October

**What it can be confused with:**
Purple coneflower is easily identified by its large, showy flowers. It can be distinguished from pale purple coneflower (Echinacea pallida) by its broader leaves & ray flowers, bushier habit, and later blooming period. [3]

**Note:** While considered common in all other PW states, *Echinacea purpurea* should not be collected in Pennsylvania due to potential change in legal status.

**Known Pollinators:**
Bumble bees, other native bees, honey bees, butterflies, and skippers. [3]

**Larval Host:** Silvery checkerspot butterflies and blackberry looper, common eupithecia, wavy-lined emerald, and sunflower moths. [3]

**© Pollinator Partnership 2019**
**Echinacea purpurea**

purple coneflower

- Leaves (mostly) alternate on stem
- Leaves present along length of stem
- Petiole short and slightly winged
- Leaves lance-like, broader at base, (most) with serrated edges
- Tiny brownish disk flowers covered in yellow pollen
- Rounded orange-brown disk
- Short white hairs on stem
- 10-20 ray flowers, notched at tip
- Mature seed head
- Cleaned seeds
**Echinacea purpurea**
purple coneflower

PURPLE CONEFLOWER COULD BE CONFUSED WITH:

**Echinacea pallida** - pale purple coneflower

Keys to distinguishing *E. pallida* from *E. purpurea*:
- Leaves of *E. pallida* are longer and more lanceolate in shape, located mostly at the base of the plant, with both upper and lower parts covered in fine white hairs. Margins are smooth, but often curl up slightly, giving the leaf edge a wavy appearance.
- Ray flowers tend to be thinner on *E. pallida* flowerheads, not exceeding \( \frac{1}{4} \) " in width.

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Plant Characteristics:

**Duration:** Perennial  
**Type:** Herb  
**Size:** 2-4’ tall  
**Leaf:** Opposite, serrate, pubescent, light or yellowish green, up to 8” long and 2” across, the leaf bases surround the central stem and merge together.  
**Stem:** Covered in long, white hairs.  
**Flower:** White, upper stems terminate in clusters of white flower heads, spanning about 2-8” across, each flowerhead is about 1/6” across and consists of about 15 disk florets with no ray florets (outer petals).  

**Seed collection**: Early September - Early October [2]

What it can be confused with:

Common boneset tolerates flooded conditions better than many other boneset species. It can be distinguished from these other species by the perfoliate leaves that surround the central stem. The other species have opposite leaves that are sessile (no leaf stem) or have distinct petioles (leaf stem). All of these species have spreading clusters of white flowers with a similar appearance. [3]

**Known Pollinators:**  
Bees, flies, wasps, butterflies, and beetles. [3,4]

**Larval Host:** Many species of moth feed on various parts of the plant. [3]

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**Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.**


© Pollinator Partnership 2019
**Eupatorium perfoliatum**
common boneset

Stems are covered in long, white hairs

Leaves are opposite and perfoliate, making stem appear to grow through one big leaf

Seeds are wind dispersed

Composite flower heads are made up of many white disk flowers with no ray flowers (outer petals)
**Eupatorium perfoliatum**
common boneset

**COMMON BONESET COULD BE CONFUSED WITH:**

*Brickellia eupatorioides* - false boneset

Flowers and seeds of false boneset look similar to common boneset, but the leaves are clearly different in structure and arrangement.

Leaves are not perfoliate, but sessile (attaching directly to stem with no petiole) and alternate along the stem.

Stem has fine, small hairs.
**Eupatorium perfoliatum**  
common boneset

---

**COMMON BONESET COULD BE CONFUSED WITH:**

**Eupatorium altissimum** - tall boneset

---

Flowers and seeds of tall boneset look similar to common boneset, but the leaves are clearly different in structure.

Leaves are not perfoliate and have 3 main veins.

Often have small leaves coming from the leaf axil of larger leaves.

Dense, matted hairs.

---

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Special thanks to: Project Wingspan’s additional core partners - Michigan State University, Michigan DNR, and Pennsylvania DOT and our sponsor - Commonwealth Edison
**Eutrochium purpureum**

sweet joe pye weed

Other common names include: purple joe-pye weed, sweet-scented joe-pye weed

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**Plant Characteristics:**

**Duration:** Perennial

**Type:** Herb

**Size:** 3-7” tall

**Leaf:** Whorled along the stem, with 3-5 leaves per whorl, though usually 4; about 6” long and 3½” wide; toothed on a short stalk, broader in the middle and toward the base and tapering to a point at the apex. Upper leaf surfaces are dull green, lower surfaces are pale green and variously hairy. May smell like vanilla.

**Stem:** Light green and slightly swollen and purple around leaf whorls. Mostly hairless, though top flowering branches may be finely pubescent. Stems are solid.

**Flower:** Central stem terminates in a dome-shaped inflorescence of one or more panicles of compound flowers. Each flower consists of 5-8 whitish-pink to purplish-pink, tubular disk florets with 5 teeth along their upper rims. Each flower has a series of overlapping, pale pink bracts at the base. Each floret has a strongly exerted white divided style.

**Seed collection**: Mid-Late September [2]

**What it can be confused with:**

Sweet joe pye weed is found in more shady and dry habitats than other joe pye species (*Eutrochium* spp.). Spotted joe-pye weed (*Eutrochium maculatum*) has purple-spotted stems or purple stems with dark hairs and 4-5 leaves per whorl, and hollow-stemmed joe pye weed (*Eutrochium fistulosum*) has hollow stems and 4-7 leaves per whorl, unlike the solid, predominantly green stems and 3-4 leaved whorls of sweet joe pye weed. [4]

**Known Pollinators:**

Bumble bees, other native bees, butterflies, skippers, and moths. [4]

**Larval Host:** European borer, common plume, red groundling, three-lined flower, common pug, and ruby tiger moths. [3,4]
Eutrochium purpureum
sweet joe pye weed

Prefers light shade to partial sun

Dome-shaped inflorescence
with whitish-pink to
purplish-pink florets

Whorls 3-5; usually 4

Clusters of seeds
on dome-shaped
inflorescence

Smooth, green,
mostly hairless
stem

Swollen and
purple at leaf
nodes

Cleaned seeds

D. Tenaglia/S.R. Turner, Missouri Plants

© 2009 Katy Chayka

Prairie Moon Nursery

© Pollinator Partnership 2019
**Eutrochium purpureum**

sweet joe pye weed

**SWEET JOE PYE WEED COULD BE CONFUSED WITH:**

**Eutrochium maculatum** - spotted joe pye weed

Key features that distinguish *Eutrochium maculatum*:
- Flat-headed panicles of flowerheads that tend to be more vibrant shade of pink/purple and have 8-20 disk florets. Panicles are typically 3-6” wide.
- Stem is purple or has purple spots, is often pubescent, and has a solid core upon cross-section.
- Leaves are whorled in groups of 3-6, but usually 4-5.
- Preference for full or partial sun and moist soils and tends to be shorter than *E. purpureum*.

**Eutrochium fistulosa** - hollow-stemmed joe pye weed

Key features that distinguish *Eutrochium fistulosa*:
- Leaves are arranged in whorls of 4-7, but usually 5-6, on petioles up to 1/2” long.
- Stems vary from solid purple to purplish-green, are hairless, typically glaucous (have a white waxy film that easily rubs off), and are hollow.
- Large dome-shaped flower panicles up to 1-1.5’ wide with 5-7 disk florets.
- Prefers full or partial sun and wet to moist soils and ranges from 3-9’ tall.

Special thanks to: Project Wingspan’s additional core partners - Michigan State University, Michigan DNR, and Pennsylvania DOT and our sponsor - Commonwealth Edison

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** Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.

Other common names include: rough blazing star, tall gayfeather, tall liatris, rough gayfeather, rough liatris, button snakeroot

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** Plant Characteristics:**

**Duration:** Perennial  
**Type:** Herb  
**Size:** 2-5' tall  
**Leaf:** Alternate, but may appear whorled because they are crowded together; towards the base, they are up to 12” long and 1” wide, becoming shorter and narrower up the stem; toothless and slightly hairy, very narrow. Leaf surfaces are dull green or bluish-green with a prominent central vein.  
**Stem:** Unbranching; green or dark red, having short, stiff hairs.  
**Flower:** Central stem terminates in an erect spike of pink or purplish-pink flowers; about ½-1½’ in length. Flowers grow in buttons about 1” across, with 25-40 disk flowers, each consisting of 5 lobes that spread out from the corolla tube and a long, curly, exerted style. No scent. Flowers begin to bloom at the top of the stalk downward as the season progresses.  
**Seed collection:** Mid September-Early October [2]

**What it can be confused with:**

Tall blazing star prefers drier growing locations than other blazing stars and blooms later in the year. It can also be distinguished from other blazing stars by the large size of its buttons of flowers. Floral bracts are also a key characteristic for differentiating various Liatris spp. *Liatris aspera* has rounded bracts; the edges fold inward and are jagged. The bract color is green or tinged with purple. [3,5]

**Note:** While considered common in all other PW states, *Liatris aspera* should not be collected in Pennsylvania

**Known Pollinators:**

Bumble bees, other native bees, honey bees, butterflies, skippers, and bee flies. [3,4]

**Larval Host:** Glorious flower moths. [3]

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© Pollinator Partnership 2019
**Liatris aspera**

tall blazing star

- Large flower buttons with 25-40 disk flowers
- Stem varies from green to purple
- Rounded, jagged-edged floral bracts
- Stem is ridged and rough from short stiff hairs
- Alternately arranged leaves
- Smooth margin and prominent central vein
- Narrowly lanceolate leaves decrease in size as they ascend the stem
- Mature seed spike
- Cleaned seeds
- Stem varies from green to purple
- Alternately arranged leaves
- Smooth margin and prominent central vein
- Narrowly lanceolate leaves decrease in size as they ascend the stem
- Mature seed spike
- Cleaned seeds

© Pollinator Partnership 2019
Liatris aspera

TALL BLAZING STAR COULD BE CONFUSED WITH:

Liatris spicata - dense blazing star (see separate plant profile for key features)

Liatris cylindracea - cylindric blazing star

Key features that distinguish Liatris cylindracea:
- Smaller flower heads, only 1/2 to 3/4” wide with 10-35 flowers per head.
- Bracts are scale-like and pressed flat, with an abrupt point at the tip and often brown to purplish.
- Stems are hairless and leaves are thinner at 1/8 to 1/2” wide.

Liatris squarrosa - scaly blazing star

Key features that distinguish Liatris squarrosa:
- Sparse flower heads along stem, only 1/2 to 1” wide with 15-45 flowers per head.
- Green/purple bracts, lined with white hairs bend outward from the flower and end in a point.
- Stem is hairy and typically light green with darker vertical lines and only 1 to 2.5’ tall.
- Linear hairy leaves vary in length about 1/2” at the base, to 1/6” at the top.

Special thanks to: Project Wingspan’s additional core partners - Michigan State University, Michigan DNR, and Pennsylvania DOT
and our sponsor - Commonwealth Edison

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** Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.


Other common names include: marsh blazingstar, dense gayfeather, dense liatris, marsh gayfeather, marsh liatris

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Plant Characteristics:

**Duration:** Perennial  
**Type:** Herb  
**Size:** 2-5’ tall  
**Leaf:** Alternate; up to 10” long and 1/3” wide, becoming smaller up the stem, appearing whorled because of their dense distribution; hairless to sparsely hairy and toothless, narrow, having a distinct central vein. Both upper and lower leaf surfaces are light to medium green.  
**Stem:** Light green to purplish green, round or slightly ridged, and hairless to sparsely hairy.  
**Flower:** Central stem terminates in a pink to purplish-pink spike of flowers, about 4-18” in length. Each flower is about 1/3” across, consisting of 4-10 disk florets and no ray florets. The corolla of each floret is divided in 5 lobes and has a strongly exerted, white to light pink, divided style. Green to purple, overlapping, oval shaped bracts are appressed at the base of each flowerhead.  

**Seed collection:** Mid October [2]

**What it can be confused with:**
Dense blazing star is distinctive from other blazing stars because others are typically shorter in height or have larger flower heads with more disk florets per flower. It also prefers wetter habitats than most others. Prairie blazing star (*Liatris pycnostachya*) most closely resembles dense blazing star, but its bracts are strongly recurved instead of appressed together. [3]

**Known Pollinators:**
Bumble bees, other native bees, butterflies, skippers, and hummingbirds. [3,4]

**Larval Host:** *Liatris* flower and *Liatris* borer moths. [3]

**PROJECT WINGSPAN - PLANT PROFILE**

*Liatris spicata*

dense blazing star

© Pollinator Partnership 2019
**Liatris spicata**
dense blazing star

- Dense inflorescence made of many floral head "buttons"
- Green/purple appressed oval-shaped bracts
- Small flower buttons with 4-10 disk flowers
- Linear leaves reduce in size as they ascend stem
- Ridged stem
- Mature seed spike
- Hairless to sparsely hairy with distinct central vein
- Cleaned seeds

Dense distribution of alternately arranged leaves

Mature seed spike

Cleaned seeds

Hairless to sparsely hairy with distinct central vein

Ridged stem

Linear leaves reduce in size as they ascend stem

Small flower buttons with 4-10 disk flowers

Green/purple appressed oval-shaped bracts

Dense inflorescence made of many floral head "buttons"
Liatris spicata  
dense blazing star

DENSE BLAZING STAR COULD BE CONFUSED WITH:

Liatris aspera - tall blazing star (see separate plant profile for key features)

Liatris cylindracea - cylindric blazing star

Key features that distinguish Liatris cylindracea:
- Larger flower heads, 1/2 to 3/4” wide with 10-35 flowers per head.
- Bracts are scale-like and pressed flat, with an abrupt point at the tip and often brown to purplish.
- Stems are hairless and leaves are thin at 1/8 to 1/2” wide.

Liatris pycnostachya - prairie blazing star

Key features that distinguish Liatris pycnostachya:
- Bracts are pinkish red and have narrow tips that curl back away from the flowers.
- Leaves vary in size along the stem 1/2” at the base to 1/8” at the top, usually hairy.
Other common names include: beebalm, horsemint, and mint-leaf bea-balm

Bloom Period:

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Plant Characteristics:

**Duration:** Perennial  
**Type:** Herb  
**Size:** 2-5’ tall  
**Leaf:** Opposite, toothed, up to 4” long and 2” across, vary in color from light green to dark green-sometimes with yellow or red tints.  
**Stem:** The light green stems are square-shaped and hairless.  
**Flower:** Lilac or pink, flower heads are 1-3” across, each flower is about 1” long, with an irregular shape.  
**Seed Collection:** Mid September - October

What it can be confused with:

Wild bergamot can be distinguished from other *Monarda* spp. by the color of its flowers – the petals of its flowers are solid pink or lavender. Other species have flowers with red, purple, or white petals, or they have dark purple dots on the lower lips of their petals. [2]

**Known Pollinators:**  
Bees, hummingbirds, butterflies, and moths. [3]

**Larval Hosts:**  
*Sphinx eremitus* (hermit sphinx moth) and *Agriopodes teratophora* (gray marvel moth) feed on the foliage. [3]

**Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.**


© Pollinator Partnership 2019
Monarda fistulosa
wild bergamot
Monarda fistulosa
wild bergamot

WILD BERGAMOT COULD BE CONFUSED WITH:

Monarda bradburiana - eastern beebalm

Spots on petals

Teeth are less pronounced and spaced further apart than wild bergamot

Petiole is short, giving an almost sessile appearance to the leaves

© Pollinator Partnership 2019
**Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.**

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[Plant Characteristics:](#)

**Duration:** Perennial  
**Type:** Herb  
**Size:** 3’ tall  
**Leaf:** Rosettes of basal leaves; 6” long and 2 ½” wide; smooth margins; medium green with reddish tints. Stalk leaves opposite; up to 6” long and 2½” wide; edges with tiny teeth and surface shiny.  
**Stem:** Light green, hairless  
**Flower:** Upper stems terminate in panicles (branching cluster) of white flowers. Each flower is tubular and about 1” long, consisting of a white corolla (petals) with a lower lip of 3 lobes and an upper lip of 2 lobes. Occasionally thin, violet lines within the corolla; outer surface is hairy. The flower, calyx and flower stalks are all densely covered in short, sticky, glandular hairs.  
**Seed collection:** September

**What it can be confused with:**

Foxglove beardtongue is distinguishable from other penstemons (*Penstemon* spp.) by its hairless leaves and stems, primarily white corolla, tiny hairs on anthers, and absence of ridges inside the corolla. [3]

**Known Pollinators:**

Honeybees, bumblebees, native bees, butterflies, Sphinx moths, and hummingbirds. [3]

**Larval Host:** Chalcedony midget moth and baltimore butterfly. [3]

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© Pollinator Partnership 2019
**Penstemon digitalis**  
foxglove beardtongue

- Hairless, opposite, slightly toothed leaves
- White flower with 5 lobed corolla
- Violet nectar guides
- Glandular hairs on flower, flower stem and calyx
- Mature seed pods
- Pods are starting to split open
- Cleaned Seeds

---

© Pollinator Partnership 2019
**Penstemon digitalis**
foxglove beardtongue

**FOXGLOVE BEARDTONGUE COULD BE CONFUSED WITH:**

**Penstemon pallidus** - pale penstemon

- The lower half of the flower is ridged, rather than flat or concave.
- The lower lip of the flower extends significantly beyond the upper lip.
- The stem and leaves are covered in hairs.
- Shorter at 1-2.5’ tall on average.

**Penstemon calycosus** - long-sepal penstemon

- The sepals are longer.
- Has light violet or purple flowers.
- The stem sometimes has fine white hairs.
- Leaves have more widely spaced teeth.
**Penstemon digitalis**
foxglove beardtongue

**FOXGLOVE BEARDTONGUE COULD BE CONFUSED WITH:**

**Penstemon tubaeﬂorus** - trumpet penstemon

Keys to distinguishing trumpet penstemon from foxglove beardtongue:
- Flower is more narrow, with larger corolla lobes (trumpet-shaped).
- Leaf margins are smooth to slightly toothed.
- Most leaves are present on the lower half of the stem, leaving large portions of the stem mostly bare between lower leaves and inflorescence.
- Lack of purple nectar guides.

Special thanks to: Project Wingspan’s additional core partners - Michigan State University, Michigan DNR, and Pennsylvania DOT and our sponsor - Commonwealth Edison

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** Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be
[1] scouted to get a more accurate timetable for each location.


Other common names include: foxglove penstemon, Mississippi penstemon/beardtongue, smooth white penstemon/beardtongue, and talus slope penstemon/beardtongue

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Plant Characteristics:

**Duration:** Perennial  
**Type:** Herb  
**Size:** 3’ tall  
**Leaf:** Rosettes of basal leaves; 6” long and 2 ½” wide; smooth margins; medium green with reddish tints. Stalk leaves opposite; up to 6” long and 2½” wide; edges with tiny teeth and surface shiny.  
**Stem:** Light green, hairless  
**Flower:** Upper stems terminate in panicles (branching cluster) of white flowers. Each flower is tubular and about 1” long, consisting of a white corolla (petals) with a lower lip of 3 lobes and an upper lip of 2 lobes. Occasionally thin, violet lines within the corolla; outer surface is hairy. The flower, calyx and flower stalks are all densely covered in short, sticky, glandular hairs.  
**Seed collection**: September

What it can be confused with:

Foxglove beardtongue is distinguishable from other penstemons (*Penstemon* spp.) by its hairless leaves and stems, primarily white corolla, tiny hairs on anthers, and absence of ridges inside the corolla. [3]

Known Pollinators:  
Honeybees, bumblebees, native bees, butterflies, Sphinx moths, and hummingbirds. [3]

**Larval Host:** Chalcodon midget moth and baltimore butterfly. [3]

** Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.

© Pollinator Partnership 2019
**Penstemon digitalis**
foxglove beardtongue

- Hairless, opposite, slightly toothed leaves
- Violet nectar guides
- Glandular hairs on flower, flower stem and calyx
- Cleaned Seeds
- White flower with 5 lobed corolla
- Mature seed pods
- Pods are starting to split open

© Pollinator Partnership 2019
**Penstemon digitalis**

foxglove beardtongue

**FOXGLOVE BEARDTONGUE COULD BE CONFUSED WITH:**

**Penstemon pallidus** - pale penstemon

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- The lower lip of the flower extends significantly beyond the upper lip.
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- Shorter at 1-2.5’ tall on average.

**Penstemon calycosus** - long-sepal penstemon

- The sepals are longer.
- Has light violet or purple flowers.
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*Penstemon digitalis*
foxglove beardtongue

**FOXGLOVE BEARDTONGUE COULD BE CONFUSED WITH:**

*Penstemon tubaeformis* - trumpet penstemon

Keys to distinguishing trumpet penstemon from foxglove beardtongue:
- Flower is more narrow, with larger corolla lobes (trumpet-shaped).
- Leaf margins are smooth to slightly toothed.
- Most leaves are present on the lower half of the stem, leaving large portions of the stem mostly bare between lower leaves and inflorescence.
- Lack of purple nectar guides.

Special thanks to: Project Wingspan’s additional core partners - Michigan State University, Michigan DNR, and Pennsylvania DOT and our sponsor - Commonwealth Edison

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Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.


Pycnanthemum tenuifolium
narrowleaf mountainmint
Other common names include: slender mountain mint and common horsemint

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Plant Characteristics:

** Duration:** Perennial

** Type:** Herb

** Size:** 2-3’ tall

** Leaf:** Opposite; up to 3” long and ¼” across. Leaves have no petiole (leaf stem), are linear, and hairless, with a prominent central vein and smooth edges. Leaves smell minty when crushed.

** Stem:** Stiff, smooth, slender, square stem, with no hairs.

** Flower:** The short tubular flowers are white, often with scattered purple dots, and individually about ¼” long. The flower petals have an upper lip, and three-lobed lower lip.

** Seed collection**: Late September - Late October [2]

What it can be confused with:

This plant has a delicate, somewhat airy appearance. *P. tenuifolium* closely resembles *Pycnanthemum virginianum* (Virginia mountainmint), except that the *P. tenuifolium* has hairless stems and leaves that never exceed ¼” across. *P. virginianum*, on the other hand, has lines of white hairs on its stems, and some of the larger leaves will exceed ¼” across. *P. virginianum* tends to be taller, stouter, and less branched in appearance; it also blooms a little later in the year. [3]

Known Pollinators:

Honey bees, native bees, flies, wasps, butterflies, skippers, and beetles. [3]

** Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.**


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**Pycnanthemum tenuifolium**

*narrowleaf mountainmint*

- Thin leaves, 1/4” or less wide
- Hairless square stem
- Flat cluster of flowers at the tip of the stem
- Upper lip and 3 lobed bottom lip
- Purple spots on flower
- Mature seed pods
- Opposite leaves
- Cleaned Seeds

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NARROWLEAF MOUNTAINMINT COULD BE CONFUSED WITH:

*Pycnanthemum virginianum* - Virginia mountainmint

Flowers are very similar in appearance; stem hairs and leaf width are the key features for differentiating the two species.

Lines of hairs are present along the ridges of the square stem.

Leaves can be up to 1/2” wide.
**Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.**


Other common names include: American mountain mint, common mountain mint

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**Plant Characteristics:**

**Duration:** Perennial

**Type:** Herb

**Size:** 1-3’ tall

**Leaf:** Opposite; up to 2½” long and up to ½” wide; growing directly on the stem and toothless, very narrow and grass-like. Releases a strong mint scent when damaged.

**Stem:** Green or reddish, strongly four-angled, having scattered white hairs; often bushy in appearance.

**Flower:** Upper stems terminate in flattened heads of small white flowers, about ¾” across, containing up to 50 flowers. Each flower is tubular, about 1/8” long, and 2-lipped. Outer flowers bloom first, followed by inner flowers.

**Seed collection**: Early September-Late October [2]

**What it can be confused with:**

Virginia mountain mint is similar to narrowleaf mountainmint (*Pycnanthemum tenuifolium*), but can be distinguished by white hairs along the stem ridges and leaves wider than ¼”. Narrowleaf mountainmint lacks hair on its stem. [3]

**Known Pollinators:**

Bumble bees, other native bees, honey bees, wasps, flies, small butterflies, and beetles. [3,4]

**Larval Host:** None

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**Prairie Moon Nursery**

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**PROJECT WINGSPAN - PLANT PROFILE**

*Pycnanthemum virginianum*

Virginia mountainmint

Other common names include: American mountain mint, common mountain mint

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**Pycnanthemum virginianum**
Virginia mountainmint

- **Upper lip and 3 lobed bottom lip**
- **Purple spots on flower**
- **Flat cluster of flowers at the tip of the stem**
- **Square stem with small white lines of hair along the four edges**

- **Only a few flowers in a cluster are in bloom at one time**
- **Opposite leaves are 1/4 to 1/2” wide**
- **Leaves give off strong mint scent when damaged**

- **Immature seed heads**
- **Grayish mature seed heads smell strongly of mint when crushed**
- **Cleaned Seeds**
Pycnanthemum virginianum
Virginia mountainmint

VIRGINIA MOUNTAINMINT COULD BE CONFUSED WITH:

Pycnanthemum tenuifolium - narrowleaf mountainmint

Thin leaves, 1/4” or less wide

Hairless square stem

Thin leaves give a less dense appearance

Flowers are very similar in appearance; stem hairs and leaf width are the key features for differentiating the two species

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Special thanks to: Project Wingspan’s additional core partners - Michigan State University, Michigan DNR, and Pennsylvania DOT and our sponsor - Commonwealth Edison
** Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.


Other common names include: gray-headed coneflower, grayhead coneflower, gray-headed Mexican hat, grayhead Mexican hat, and pinnate prairie coneflower

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** Ratibida pinnata **

yellow coneflower

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Plant Characteristics:

** Duration:** Perennial  
** Type:** Herb  
** Size:** 3-5’ tall  
** Leaf:** Alternate; irregularly shaped; up to 8” long and 5” wide; basal leaves are compound with 3-7 lobes, sometimes with 1-2 secondary lobes; small, stiff hairs and bumps, smooth or sparsely toothed.  
** Stem:** Long, slender, hairy, and slightly ridged.  
** Flower:** Composite flower occurs at the tip of the stem; up to 13 yellow ray florets (outer petals) up to 1-2½” wide, disk floret head ½-¾” tall; little to no floral scent.  
** Seed collection:** September - Early October [2]

What it can be confused with:  
Yellow coneflower can be distinguished from other yellow colored coneflowers like *Rudbeckia hirta* (black-eyed Susan) and *Rudbeckia laciniata* (cutleaf coneflower) by the drooping ray florets, grayish central cone, ridged stem, height, and complex structure of the basal leaves. [3]

** Note:** While considered common in all other PW states, *Ratibida pinnata* should not be collected in Pennsylvania due to potential change in legal status.

** Known Pollinators:**  
Native bees, wasps, flies, small butterflies, and beetles. [3]

** Larval Host:** Silvery checkerspot butterfly, wavy-lined emerald moth, and common eupithecia moth. [3]

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** PROJECT WINGSPAN - PLANT PROFILE **

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**Ratibida pinnata**
yellow coneflower

- Disk florets
- Greyish central cone
- Ridges on stem
- Drooping ray florets
- Alternately arranged leaves
- Variably lobed leaves

Mature seed pods
Cleaned seeds
Ratibida pinnata
yellow coneflower

YELLOW CONEFLOWER COULD BE CONFUSED WITH:

* Rudbeckia laciniata - cutleaf coneflower

Keys to distinguishing cutleaf coneflower from yellow coneflower:
- More widely separated disk florets.
- Central cones are light green to yellow vs. greyish.
- Leaves are larger and lobes are wider.
- Stem does not have ridges.

Special thanks to: Project Wingspan’s additional core partners - Michigan State University, Michigan DNR, and Pennsylvania DOT and our sponsor - Commonwealth Edison

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** Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.


2 http://www.illinoiswildflowers.info/prairie/plants/ne_asterx.htm

3 https://www.minnesotawildflowers.info/flower/new-england-aster

** Seed collection**: Early - Mid November

**Plant Characteristics:**

**Duration**: Perennial  
**Type**: Herb  
**Size**: 4’ tall  
**Leaf**: Alternate; up to 4” long and 1” wide; pubescent with smooth, but ciliate margins (lined with small hairs), clamping, becoming smaller as they ascend the stems.  
**Stem**: Single or multiple from the base, mostly erect, brown to reddish, and covered in short, spreading hairs.  
**Flower**: Upper stems terminate in clusters of composite flowers. Each flower is about 1½” wide, consisting of yellow or gold disk florets, surrounded by 30-100 purple, lavender, or light pink ray florets (outer petals); no floral scent.  

**What it can be confused with:**

New England aster is easily distinguished from other asters (*Symphyotrichum* spp.) because of its more numerous ray florets, larger flowers, and hairy spreading phyllaries. Another large-flowered aster it could potentially be mistaken for is the purple-stemmed aster (*Symphyotrichum puniceum*). The two species can be distinguished by a few key features observed on the leaves and phyllaries. New England aster can be differentiated from purple-stemmed aster by: the smooth leaf margin vs. widely toothed leaf margin, the variably pubescent leaves vs. glabrous leaves with hairs along the central veins of their underside, and the hairy spreading phyllaries vs. smooth spreading phyllaries. [2,3]

**Known Pollinators:**
Honeybees, bumblebees, native bees, bee flies, butterflies, and skippers. [2]

**Larval Host:** Many species of moths. [2]
Symphyotrichum novae-angliae
New England aster

Flowers about 1.5” wide

Dense ray florets (30-100)

Yellow disk florets

Purple ray florets

Pubescent, spreading phyllaries

Leaves taper to both rounded and pointed tips

Alternate

Pubescent, sessile leaves

Pink variant

Cleaned seeds

Mature seed heads

John Hilty, Illinois Wildflowers

Prairie Moon Nursery

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**Symphyotrichum novae-angliae**
New England aster

**NEW ENGLAND ASTER COULD BE CONFUSED WITH:**

*Symphyotrichum puniceum* - purple-stemmed aster

Keys to distinguishing purple-stemmed aster from New England aster:
- Ray petals are light violet to blue-violet vs. purple, lavender, or light pink.
- Less ray petals (30-60) vs (30-100).
- Leaves are fairly hairless except along the central vein of the underside of the leaf vs. a variably pubescent leaf.
- Leaf margin is widely toothed vs. smooth and ciliated.
- Leaves taper to a sharp point vs. tapering to a pointed or rounded tip.
- Phyllaries are hairless vs. covered in small hairs.
- Flowers are slightly smaller: $\frac{3}{4}$–$1\frac{1}{4}$" across vs. $1\frac{1}{2}$".

Special thanks to: Project Wingspan’s additional core partners - Michigan State University, Michigan DNR, and Pennsylvania DOT and our sponsor - Commonwealth Edison

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Other common names include: bluejacket

Bloom Period:

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Plant Characteristics:

**Duration:** Perennial  
**Type:** Forb  
**Size:** 2-4’ tall  
**Leaf:** The grass-like leaves are grey- or blue-green, alternate, up to 15” long and 1” across. They are linear, although wider at the base (where the leaves wrap around the stem in sheaths), than at the tip. They are also hairless, with parallel venation, and smooth margins.  
**Stem:** Central stem is round, hairless, and occasionally glaucous (a whitish film that can be rubbed off).  
**Flower:** The light violet to blue-violet flowers occur in small clusters on hairless flowering stems at the top of the plant. Underneath each inflorescence are 2 small bracts, each up to 3” long and less than ½” across. Each flower is about 1” across, with 3 rounded petals, 6 bright yellow anthers, and fine spidery violet hairs near the base. The flowers open up during the morning and close by the afternoon in sunny weather, but remain open longer on cloudy days.  
**Seed collection**: Early - Mid July

What it can be confused with:  
Ohio spiderwort can be readily distinguished from Virginia spiderwort and prairie spiderwort by the absence of conspicuous hairs on the flowering stems near the inflorescence, and the greyish or bluish appearance of the thin leaves. It also tends to be taller and more spindly in appearance than other species of spiderwort, and has smaller bracts below the inflorescence. Another species, zigzag spiderwort, prefers shaded woody areas, has a stem that slightly zig-zags between its broader leaves (up to 2” across), which are typically dark green, and the flower stems are covered in hairs. [2]

Known Pollinators:  
Native bees and flies. [2,3]

** Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.  
Tradescantia ohiensis
Ohio spiderwort

Flowers open in the morning and close by afternoon

No hairs on flower stem or sepals

Two distinct bracts below flower heads

Glaucous stem (whitish coating that rubs off when you touch it)

Leaf sheath

Mature seed heads

Cleaned seeds
Tradescantia ohiensis
Ohio spiderwort

OHIO SPIDERWORT COULD BE CONFUSED WITH:

Tradescantia bracteata - prairie spiderwort

- Unlike the Ohio spiderwort, the sepals and flower stems are covered in glandular hairs and the stem is not glaucous.
- Bracts are much longer in the prairie spiderwort; the length of the bract almost match that of the leaf (4-10").
- This species is shorter, averaging at ½-1½’.

Tradescantia virginiana - Virginia spiderwort

- Unlike the Ohio spiderwort, the sepals, flower stems, and leaf sheaths are covered in hairs and stems are not glaucous.
- Virginia spiderwort has longer bracts, up to 6”.
**Tradescantia ohiensis**
Ohio spiderwort

**OHIO SPIDERWORT COULD BE CONFUSED WITH:**

*Tradescantia subaspera* - zigzag spiderwort

- Unlike Ohio spiderwort, the sepals and flower stems are covered in hairs.
- The stem has a tendency to zigzag slightly between the alternate leaves and is not glaucous.
- The leaves are up to twice as wide (2”) as that of Ohio spiderwort.
**Tradescantia ohiensis**
Ohio spiderwort

Other common names include: bluejacket

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**Known Pollinators:**
Native bees and flies. [2,3]

**Seed collection** times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.


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**Tradescantia ohiensis**
Ohio spiderwort

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- Two distinct bracts below flower heads
- No hairs on flower stem or sepals
- Glaucus stem (whitish coating that rubs off when you touch it)
- Leaf sheath
- Mature seed heads
- Cleaned seeds
Tradescantia ohiensis
Ohio spiderwort

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Tradescantia ohiensis
Ohio spiderwort

**OHIO SPIDERWORT COULD BE CONFUSED WITH:**

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- Unlike Ohio spiderwort, the sepals and flower stems are covered in hairs.
- The stem has a tendency to zigzag slightly between the alternate leaves and is not glaucous.
- The leaves are up to twice as wide (2”) as that of Ohio spiderwort.
Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.


** Plant Characteristics: **

** Duration:** Perennial  
** Type:** Herb  
** Size:** 3-7’ tall  
** Leaf:** Alternate; up to 9” long and 2½” wide; toothed margins. Upper leaf surfaces are dark green and hairless; lower leaf surfaces are light green and sparsely pubescent. Each leaf has a short petiole (leaf stem) or is sessile (no leaf stem).

** Stem:** Usually unbranched, light green or purplish green, and pubescent.  
** Flower:** Central stem terminates in a panicle (branched cluster) of flowerheads from 6-16” across. Each flowerhead consists of 10-30 disk florets and no ray florets (outer petals); tubular, magenta corolla (petals) with 5 recurved, narrow lobes; exerted style is bifurcated (2 branching) and strongly recurved. No floral scent.

** Seed collection:** October [2]

** What it can be confused with: **

Tall ironweed hybridizes with other *Vernonia* spp. (ironweeds), especially *Vernonia missurica* (Missouri ironweed). The latter hybrid is referred to as *Vernonia × illinoensis* (Illinois ironweed). Giant ironweed can be distinguished from its hybrid, because Illinois ironweed is more hairy and has flowerheads with 30-35 disk florets. Another species, Missouri ironweed, has flowerheads with 35-50 disk florets and it is more hairy than tall ironweed; both stems and leaf undersides of Missouri ironweed are often white-woolly from the abundance of these hairs. Smooth ironweed (*Veronia fasciculata*) differs from giant ironweed in that it is smaller in size, has hairless stems and leaves, and sometimes has dark dots on the undersides of it leaves. [3]

** Known Pollinators: **

Native bees, bee flies, butterflies, and skippers. [3]

** Larval Host:** Eupatorium borer moth, ironweed borer moth, red groundling moth, pyralid moth, ironweed bud midge, and ironweed blossom midge [3]

** Bloom Period:**

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**Vernonia gigantea**
giant ironweed

- Spreading flowerhead
- Purplish-green stem
- Lightly pubescent stem
- Serrated margin on leaves
- Upper stem leaves
- Lower stem leaves
- Bifurcated style
- Recurved petals
- Alternate leaves
- 10-30 magenta disk florets per flower
- Mature seed heads
- Cleaned Seeds

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**Vernonia gigantea**
giant ironweed

**GIANT IRONWEED COULD BE CONFUSED WITH:**

**Vernonia missurica** - Missouri ironweed

More florets per flower (35-50)

Keys to distinguishing Missouri ironweed from giant ironweed:
- Has densely pubescent stems and underside of leaves vs. sparsely pubescent.
- Each composite flower has from 35-50 disk florets vs. 10-30.

**Vernonia fasciculata** - smooth ironweed

Hairless

Keys to distinguishing smooth ironweed from giant ironweed:
- Has hairless leaves and stems.
- Will sometimes have black dots on the underside of the leaves.
- Narrower leaves: $\frac{1}{2}$” or less vs. over $\frac{1}{2}$” wide.
- Condensed flowering head vs. spreading.

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** Veronicastrum virginicum **  
Culver’s root

** Bloom Period:**

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** Plant Characteristics:**

Duration: Perennial  
Type: Herb  
Size: 3-6’ tall  
Leaf: 3-7 whorled; up to 6” long and 1½” wide; toothed with hairy undersides, tapering to a point at both ends and either with a short petiole or growing directly on the stem. May turn yellowish green in bright sunlight or during a drought.  
Stem: Round, smooth, and unbranched except near the inflorescence.  
Flower: Upper stems terminate in white spikes of flowers up to 8” long. Each tubular flower is about ¼” long with 2 brown or yellow stamens exerted, blooming from bottom to top. No scent. Several spikes in whorls surround the longer main spike, resembling a candelabrum.  
Seed collection**: Late August-Late September [2]

** What it can be confused with:**  
Culver’s root is quite a distinct plant on the landscape with both inflorescence and mature seed-heads being readily identified. Due to their whorled serrate, lanceolate leaves, young plants that have yet to form inflorescence can look similar to some *Eutrochium* spp. but are easily differentiated once the inflorescence forms (see *Eutrochium maculatum* example below). Mature seed pods can look somewhat similar to *Verbena* spp. (such as the *Verbena hastata* example below) but *Verbena*’s opposite leaves and square stem cannot be mistaken for the whorled leaves and round stem of *V. virginicum.*

** Known Pollinators:**  
Bumble bees, other native bees, honey bees, sphecid wasps, syrphid flies, butterflies, and moths. [3,4]

** Larval Host:** Culver’s root borer moths.

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**[2]** http://pleasantvalleyconservancy.org/seedcollectingtimes.html  
**[3]** https://www.illinoiswildflowers.info/prairie/plantx/culverx.htm  
**[4]** https://www.wildflower.org/plants/result.php?id_plant=VEVI4

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**Veronicastrum virginicum**

Culver’s root

- Small, tubular white flowers with 2 yellow/brown stamens protruding
- Unbranched stem terminating in slender spikes of white flowers
- Smooth, green, relatively hairless round stem
- Arranged in whorled clusters varying from 3-7 leaves
- Serrate margin
- Little-to-no petiole
- Candelabra-shaped inflorescence with taller flower spike in the middle
- Immature seed capsules
- Fertilized flower spike matures into tiny woody capsules
- Cleaned Seeds
- Capsules contain tiny brown ovular seeds

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Culver’s root

Veronicastrum virginicum

Veronicastrum virginicum could be confused with:

Verbena hastata - blue vervain

Eutrochium maculatum - spotted joe-pye weed

Keys to distinguishing Culver’s root from Verbena hastata:
- Flowers are white vs. blue/purple.
- Flower spike arrangement: Larger main spike surrounded by smaller spikes vs. a series of similarly-sized flower spikes.
- V. hastata has larger, rectangular-shaped seeds.

Keys to distinguishing Culver’s root from Eutrochium maculatum:
- White flowers are arranged on spikes vs. purple flat-topped clusters.
- E. maculatum leaves, while whorled, are larger (up to 9” long and 2” wide) and are arranged in groups of 3-6.
- Seeds are located in tiny capsules vs. attached to a pappus.

Special thanks to: Project Wingspan’s additional core partners - Michigan State University, Michigan DNR, and Pennsylvania DOT and our sponsor - Commonwealth Edison
**Seed collection times will vary due to location and weather conditions during the growing season. This is a general time seed may be ready, locations will need to be scouted to get a more accurate timetable for each location.**


**Plant Characteristics:**

**Duration:** Perennial  
**Type:** Herb  
**Size:** 2 ½’ tall  
**Leaf:** Alternate, compound leaves with 3 or 5 leaflets; hairless, shiny, and medium green; 3” long and 2” wide; toothed margins. Lower leaves with long petioles (leaf stem); larger leaflets with 1-2 cleft lobes.  
**Stem:** Forming occasional, lateral stems; light green, hairless, and shiny.  
**Flower:** Upper stems terminate in compound umbels of yellow flowers, measuring 2-3” across and consisting of 12 umbellets of 21 flowers each. Each flower is about 1/8” wide, consisting of 5 incurved yellow petals, 5 stamens, and a pistil. No floral scent.  
**Seed collection**: Early August - Mid September [2]

**What it can be confused with:**

Golden Alexander is sometimes confused with wild parsnip (*Pastinaca sativa*) and yellow meadow parsnip (*Thaspium trifoliatum aureum*). Wild parsnip blooms later, is taller, and has more leaflets in each leaf than golden Alexander. It can be distinguished from yellow meadow parsnip due to the parsnip’s short pedicel on the central flowers of each umbellet, the winged seeds, and simple rather than trifoliate basal leaves. [3]

**Known Pollinators:**

Native bees, wasps, bumblebees, butterflies, and true bugs. [3]

**Larval Host:** Black swallowtail butterfly, Ozark swallowtail butterfly, and rigid sunflower borer moth. [3]
Zizia aurea
Golden Alexander

- Odd-pinnate compound leaves
- 3-5 leaflets
- Smooth, hairless stem
- Mature seeds
- Immature seeds
- Cleaned seeds
- Compound yellow umbels
- 2-3” wide

© Pollinator Partnership 2019
**Zizia aurea**
golden Alexander

**GOLDEN ALEXANDER COULD BE CONFUSED WITH:**

*Thaspium trifoliatum aureum* - yellow meadow parsnip

---

**Keys to distinguishing yellow meadow parsnip from golden Alexander:**
- Basal leaves are simple vs. trifoliate.
- Seeds have “wings” vs. shallow ridges.

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*Pastinaca sativa* - wild parsnip

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**Keys to distinguishing wild parsnip from golden Alexander:**
- Furrowed stem.
- Plant is larger at 2-5’ tall vs. about 2.5’.
- More leaflets: 9+ vs. 3-5.
- Larger flower head 3-8” across vs. 2-3”.

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**[2]** http://pleasantvalleyconservancy.org/seedcollectingtimes.html

**[3]** http://www.illinoiswildflowers.info/prairie/plantx/gld_alexanderx.htm

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**Zizia aurea**

golden Alexander

Other common names include: golden zizia

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**Plant Characteristics:**

Duration: Perennial

Type: Herb

Size: 2 ½’ tall

**Leaf:** Alternate, compound leaves with 3 or 5 leaflets; hairless, shiny, and medium green; 3” long and 2” wide; toothed margins. Lower leaves with long petioles (leaf stem); larger leaflets with 1-2 cleft lobes.

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**© Pollinator Partnership 2019**
Zizia aurea
Golden Alexander

- Odd-pinnate compound leaves
- 3-5 leaflets
- Smooth, hairless stem
- Mature seeds
- Immature seeds
- Compound yellow umbels
- 2-3” wide
- Cleaned seeds

© Pollinator Partnership 2019
Zizia aurea
golden Alexander

GOLDEN ALEXANDER COULD BE CONFUSED WITH:

*Thaspium trifoliatum aureum* - yellow meadow parsnip

Keys to distinguishing yellow meadow parsnip from golden Alexander:
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*Pastinaca sativa* - wild parsnip

Keys to distinguishing wild parsnip from golden Alexander:
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- More leaflets: 9+ vs. 3-5.
- Larger flower head 3-8” across vs. 2-3”.

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