

Pollinator Mix 2019 MNLDJP1901

(Info primarily from www.missouribotanicalgarden.org)

Little Bluestem

Schizachyrium scoparium

Common Name: little bluestem
Type: Ornamental grass
Family: Poaceae
Native Range: Eastern North America
Zone: 3 to 9
Height: 2.00 to 4.00 feet
Spread: 1.50 to 2.00 feet
Bloom Time: August to February
Bloom Description: Purplish bronze
Sun: Full sun
Water: Dry to medium
Maintenance: Low
Suggested Use: Rain Garden
Flower: Insignificant
Leaf: Good Fall
Other: Winter Interest
Tolerate: Deer, Drought, Erosion, Dry Soil, Shallow-Rocky Soil, Black Walnut, Air Pollution



Culture: Easily grown in average, dry to medium moisture, well-drained soil in full sun. Tolerates a wide range of soil conditions. Tolerates clay soils. Performs well in poor soils. Good drought resistance once established. Tolerates high heat and humidity. Cut to the ground in late winter to early spring.

Noteworthy Characteristics: *Schizachyrium scoparium*, commonly called little bluestem, is native to prairies, fields, clearings, hills, limestone glades, roadsides, waste areas and open woods from Alberta to Quebec south to Arizona and Florida. It was one of the dominant grasses of the vast tallgrass prairie region which once covered rich and fertile soils in many parts of central North America. It typically matures to 2-4' (less frequently to 5') tall, and features upright clumps of slender, flat, linear green leaves (to 1/4" wide), with each leaf having a tinge of blue at the base. Purplish-bronze flowers appear in 3" long racemes on branched stems rising above the foliage in August. Flowers are followed by clusters of fluffy, silvery-white seed heads which are attractive and often persist into winter. Many consider the most outstanding ornamental feature of this grass to be its bronze-orange fall foliage color.

Sideoats Grama

Bouteloua curtipendula

Common Name: sideoats grass
Type: Ornamental grass
Family: Poaceae
Native Range: North and South America
Zone: 4 to 9
Height: 1.50 to 2.50 feet
Spread: 1.50 to 2.00 feet
Bloom Time: July to August
Bloom Description: Purplish
Sun: Full sun
Water: Dry to medium
Maintenance: Low
Suggested Use: Ground Cover
Flower: Showy, Good Cut, Good Dried
Leaf: Good Fall
Attracts: Birds
Tolerate: Drought, Erosion, Dry Soil, Shallow-Rocky Soil, Black Walnut, Air Pollution



Culture: Easily grown in average, dry to medium moisture soils in full sun. Tolerates wide range of soil conditions from well-drained sandy soils to heavy clays. May be grown from seed and may self-seed in the garden in optimum growing conditions. Cut clumps to the ground in late winter.

Noteworthy Characteristics: *Bouteloua curtipendula*, commonly called sideoats grama, is a Missouri native grass which is noted for the distinctive arrangement of oat-like seed spikes which hang from only one side of its flowering stems. Typically occurs in glades, prairies, open rocky woodlands and along railroad tracks throughout most of the State. Narrow, bluish-gray leaf blades (to 1/4" wide) typically form a dense clump growing 1-1.5' tall. Foliage turns golden brown in autumn, sometimes also developing interesting hues of orange and red. Inflorescences of purplish-tinged flowers appear on arching stems above the foliage in early to mid summer, typically bringing the total height of the clump to 3' tall. Inflorescences fade to tan as the seeds mature.

Fragrant Giant Hyssop

Agastache foeniculum

Common Name: anise hyssop
Type: Herbaceous perennial
Family: Lamiaceae
Native Range: North America
Zone: 4 to 8
Height: 2.00 to 4.00 feet
Spread: 1.50 to 3.00 feet
Bloom Time: June to September
Bloom Description: Lavender to purple
Sun: Full sun to part shade
Water: Dry to medium
Maintenance: Medium
Suggested Use: Herb, Naturalize
Flower: Showy, Good Cut, Good Dried
Leaf: Fragrant
Attracts: Hummingbirds, Butterflies
Tolerate: Deer, Drought, Dry Soil



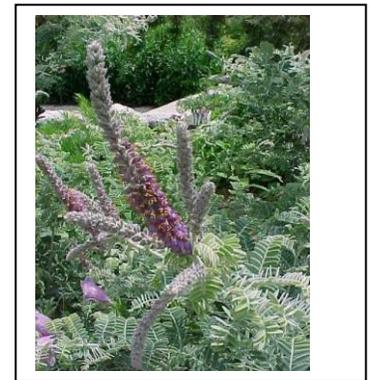
Culture: Easily grown in average, dry to medium moisture, well-drained soils in full sun to part shade. Best in full sun. Performs well in moist soils, but good soil drainage is essential. Plants tolerate dry soils, particularly once established. Deadhead spent flowers to promote additional bloom. Plants will spread by rhizomes and will easily self seed in optimum growing conditions

Noteworthy Characteristics: *Agastache foeniculum*, commonly known as anise hyssop, is an upright, clump-forming perennial of the mint family that is native to parts of the upper Midwest and Great Plains (Wisconsin to Ontario west to British Columbia and south to Colorado). It is typically found in prairies, dry upland forested areas, plains and fields. It grows to 2-4' tall. It is noted for its mid- to late summer bloom of lavender to purple flowers in terminal spikes and its anise-scented foliage. Square stems are clad with ovate to broad-lanceolate dull green leaves (to 4" long) with toothed margins. Flowers appear in many-flowered verticillasters (false whorls) which are densely packed into showy, cylindrical, terminal flower spikes (3-6" long). Gaps sometimes appear along the flower spike. Individual, tiny, tubular, two-lipped flowers (each to 1/3" long) have no fragrance. Flowers are attractive to bees (good nectar plant), hummingbirds and butterflies. Aromatic leaves can be used to make herbal teas or jellies. Seeds can be added to cookies or muffins. Dried leaves can be added to potpourris.

Leadplant

Amorpha canescens

Common Name: lead plant
Type: Deciduous shrub
Family: Fabaceae
Native Range: North America
Zone: 2 to 9
Height: 2.00 to 3.00 feet
Spread: 2.00 to 2.50 feet
Bloom Time: July to September
Bloom Description: Purple, blue
Sun: Full sun
Water: Dry to medium
Maintenance: Low
Suggested Use: Naturalize
Flower: Showy
Attracts: Birds, Butterflies
Tolerate: Drought, Erosion, Dry Soil



Culture: Grow in average, dry to medium moisture, well-drained soil in full sun. Does well in poor, sandy, somewhat dry soils. May spread by self-seeding. Plant may die back to the ground in harsh winters.

Noteworthy Characteristics: *Amorpha canescens*, commonly called lead plant, is a Missouri native that typically occurs in open woodlands, glades and prairies. This pea/bean family member is a somewhat ungainly, deciduous shrub growing 1-3' tall and featuring slender, dense, 4-8" spike-like clusters of tiny, bluish-purple flowers with gold anthers which bloom in May-June. It also features alternate, pinnately compound leaves with grayish green leaflets and densely hairy twigs.

Genus name comes from the Greek word *amorphos* meaning shapeless or deformed in reference to the corolla of this pea family genus lacking wings and a keel.

Specific epithet means with off-white or ashy-grey hairs in reference to the leaves and twigs.

The genus *Amorpha* is often called false indigo because of its resemblance to plants of the genus *Indigofera*. Common name of lead plant refers to the once held belief that the plant was an indicator of the presence of lead in the ground.

Columbine *Aquilegia canadensis*

Common Name: columbine
Type: Herbaceous perennial
Family: Ranunculaceae
Native Range: Eastern North America
Zone: 3 to 8
Height: 2.00 to 3.00 feet
Spread: 1.00 to 1.50 feet
Bloom Time: April to May
Bloom Description: Light pink/yellow to blood red/yellow
Sun: Full sun to part shade
Water: Medium
Maintenance: Medium
Suggested Use: Naturalize
Flower: Showy, Good Cut
Attracts: Hummingbirds
Tolerate: Rabbit, Deer, Drought, Dry Soil



Culture: Easily grown in average, medium, well-drained soil in full sun to part shade. Wide range of soil tolerance as long as drainage is good. Prefers rich, moist soils in light to moderate shade. Freely self-seeds and will naturalize to form large colonies in optimum growing conditions. Remove flowering stems after bloom to encourage additional bloom. Keep soils uniformly moist after bloom to prolong attractive foliage appearance. When foliage depreciates, plants may be cut to the ground.

Noteworthy Characteristics: *Aquilegia canadensis* is a Missouri native spring wildflower which occurs in rocky woods, slopes, ledges and open areas throughout the State. Features drooping, bell-like, 1-2", red and yellow flowers (red sepals, yellow-limbed petals, 5 distinctive red spurs and a mass of bushy yellow stamens). Delicate, biternate foliage is somewhat suggestive of meadow rue (*Thalictrum*) and remains attractive throughout the summer as long as soils are kept moist. Flowers are quite attractive to hummingbirds.

Genus name comes from the Latin word for eagle in reference to the flower's five spurs which purportedly resemble an eagle's talon.

Specific epithet means of Canada or also of north-eastern North America.

Butterfly Milkweed *Asclepias tuberosa*

Common Name: butterfly weed
Type: Herbaceous perennial
Family: Apocynaceae
Native Range: Eastern and southern United States
Zone: 3 to 9
Height: 1.00 to 2.50 feet
Spread: 1.00 to 1.50 feet
Bloom Time: June to August
Bloom Description: Yellow/orange
Sun: Full sun
Water: Dry to medium
Maintenance: Low
Suggested Use: Naturalize, Rain Garden
Flower: Showy
Attracts: Butterflies
Tolerate: Deer, Drought, Erosion, Dry Soil, Shallow-Rocky Soil



Culture: Easily grown in average, dry to medium, well-drained soils in full sun. Drought tolerant. Does well in poor, dry soils. New growth tends to emerge late in the spring. Plants are easily grown from seed, but are somewhat slow to establish and may take 2-3 years to produce flowers. Mature plants may freely self-seed in the landscape if seed pods are not removed prior to splitting open. Butterfly weed does not transplant well due to its deep taproot, and is probably best left undisturbed once established.

Noteworthy Characteristics: *Asclepias tuberosa*, commonly called butterfly weed, is a tuberous rooted, Missouri native perennial which occurs in dry/rocky open woods, glades, prairies, fields and roadsides throughout the State (Steyermark). It typically grows in a clump to 1-3' tall and features clusters (umbels) of bright orange to yellow-orange flowers atop upright to reclining, hairy stems with narrow, lance-shaped leaves. Unlike many of the other milkweeds, this species does not have milky-sapped stems. Flowers give way to prominent, spindle-shaped seed pods (3-6" long) which split open when ripe releasing numerous silky-tailed seeds for dispersal by the wind. Seed pods are valued in dried flower arrangements. Long bloom period from late spring throughout the summer. Flowers are a nectar source for many butterflies and leaves are a food source for monarch butterfly larvae (caterpillars). Also commonly called pleurisy root in reference to a prior medicinal use of the plant roots to treat lung inflammations.

Purple Prairie Clover *Dalea purpureum*

Common Name: purple prairie clover
Type: Herbaceous perennial
Family: Fabaceae
Native Range: North America
Zone: 3 to 8
Height: 1.00 to 3.00 feet
Spread: 1.00 to 1.50 feet
Bloom Time: June to August
Bloom Description: Rose/Purple
Sun: Full sun
Water: Medium
Maintenance: Low
Suggested Use: Naturalize
Flower: Showy
Attracts: Butterflies
Tolerate: Drought



Culture: Easily grown in average, medium, well-drained soils in full sun. Thick and deep taproot enables this plant to tolerate drought well. May self-seed in optimum growing conditions.

Noteworthy Characteristics: *Dalea purpurea*, commonly called purple prairie clover, is a native Missouri prairie clover which occurs in glades, rocky open woods and prairies throughout the State except for the far southeastern counties. Typically grows 1-3' tall. Features tiny purple flowers in dense, cone-like heads (to 2" long) atop erect, wiry stems in summer. Compound, odd-pinnate leaves, with 3-5 narrow linear leaflets. A nitrogen-fixing plant that is an important component of Midwestern prairie restorations. Formerly known as *Petalostemon purpureum*.

Rough Blazingstar *Liatris aspera*

Common Name: blazing star
Type: Herbaceous perennial
Family: Asteraceae
Native Range: Eastern North America
Zone: 3 to 8
Height: 2.00 to 3.00 feet
Spread: 1.00 to 1.50 feet
Bloom Time: August to October
Bloom Description: Purple
Sun: Full sun
Water: Dry to medium
Maintenance: Medium
Flower: Showy, Good Cut
Attracts: Birds, Hummingbirds, Butterflies
Tolerate: Drought, Dry Soil, Shallow-Rocky Soil



Culture: Easily grown in average, dry to medium, well-drained soils in full sun. Tolerant of poor soils, drought, summer heat and humidity. Intolerant of wet soils in winter.

Noteworthy Characteristics: *Liatris aspera*, commonly called rough blazing star, is an upright, clump-forming, Missouri native perennial which typically grows 2-3' tall (less frequently to 5') and which commonly occurs in dryish soils on prairies, open woods, glades, meadows and along roads and railroad tracks. Features rounded, fluffy, deep rose-purple flower heads (each 3/4" across) which are crowded into long, terminal flower spikes atop erect, rigid, leafy flower stalks. Stalks arise from basal tufts of rough, very narrow, lance-shaped leaves (to 12" long). Flowers open somewhat at the same time, which makes this species a particularly good fresh cut flower for floral arrangements. Blooms later (late summer to fall) than most other *Liatris* species. *Liatris* belongs to the aster family, with each flower head having only fluffy disk flowers (resembling "blazing stars") and no rays. This species is distinguished from other *Liatris* species by its rough appearance and rounded, outflaring involucre bracts.

Wild Bergamot

Monarda fistulosa

Common Name: wild bergamot
Type: Herbaceous perennial
Family: Lamiaceae
Native Range: North America
Zone: 3 to 9
Height: 2.00 to 4.00 feet
Spread: 2.00 to 3.00 feet
Bloom Time: July to September
Bloom Description: Pink/lavender
Sun: Full sun to part shade
Water: Dry to medium
Maintenance: Medium
Suggested Use: Herb, Naturalize, Rain Garden
Flower: Showy, Fragrant, Good Cut, Good Dried
Leaf: Fragrant
Attracts: Hummingbirds, Butterflies
Tolerate: Deer, Drought, Clay Soil, Dry Soil, Shallow-Rocky Soil, Black Walnut



Culture: Best grown in dry to medium moisture, well-drained soils in full sun to part shade. Tolerates somewhat poor soils and some drought. Plants need good air circulation. Deadhead flowers to prolong summer bloom. Tends to self-seed.

Noteworthy Characteristics: *Monarda fistulosa*, commonly called wild bergamot, is a common Missouri native perennial which occurs statewide in dryish soils on prairies, dry rocky woods and glade margins, unplanted fields and along roads and railroads. A clump-forming, mint family member that grows typically to 2-4' tall. Lavender, two-lipped, tubular flowers appear in dense, globular, solitary, terminal heads atop square stems. Each flower head is subtended by (rests upon) a whorl of showy, pinkish, leafy bracts. Flowers are attractive to bees and butterflies. The toothed, aromatic, oblong, grayish-green leaves (to 4") may be used in teas. Long summer bloom period.

Large-Flowered Beardtongue

Penstemon digitalis?

Common Name: beardtongue
Type: Herbaceous perennial
Family: Plantaginaceae
Native Range: Eastern and southeastern United States
Zone: 3 to 8
Height: 3.00 to 5.00 feet
Spread: 1.50 to 2.00 feet
Bloom Time: April to June
Bloom Description: White
Sun: Full sun
Water: Dry to medium
Maintenance: Mediumsopp
Suggested Use: Naturalize, Rain Garden
Flower: Showy, Good Cut
Attracts: Birds, Butterflies
Tolerate: Deer, Drought, Clay Soil, Dry Soil



Culture: Grow in average, dry to medium moisture, well-drained soil in full sun. Avoid wet, poorly drained soils.

Noteworthy Characteristics: *Penstemon digitalis* is a clump-forming, Missouri-native perennial which typically grows 3-5' tall and occurs in prairies, fields, wood margins, open woods and along railroad tracks. Features white, two-lipped, tubular flowers (to 1.25" long) borne in panicles atop erect, rigid stems. Flowers bloom mid-spring to early summer. Basal leaves are elliptic and stem leaves are lance-shaped to oblong.

Genus name comes from the Greek words *penta* meaning five and *stemon* meaning stamen in reference to each flower having five stamens (four are fertile and one is sterile).

Penstemon is sometimes commonly called beard tongue because the sterile stamen has a tuft of small hairs.

Long-Headed Coneflower *Ratibida columnifera*

Common Name: Mexican hat plant
Type: Herbaceous perennial
Family: Asteraceae
Native Range: North America
Zone: 4 to 9
Height: 1.00 to 3.00 feet
Spread: 1.00 to 1.50 feet
Bloom Time: June to September
Bloom Description: Yellow rays and dark brown center disk
Sun: Full sun
Water: Dry to medium
Maintenance: Medium
Flower: Showy
Attracts: Butterflies
Tolerate: Drought, Dry Soil



Culture: Easily grown in average, dry to medium, well-drained soils in full sun. Tolerates drought, light shade and somewhat poor soils. Intolerant of moist heavy clays. May be grown from seed, but will not flower until the second year.

Noteworthy Characteristics: *Ratibida columnifera*, commonly called long-headed coneflower or prairie coneflower, is an erect, hairy, clump-forming plant that typically grows to 1-3' tall. It ranges from Alberta to Minnesota south to Arkansas, New Mexico and Mexico. It is most common on the Great Plains. In Missouri, it is uncommonly found in prairies, waste ground and along railroads and highways (Steysmark). This is an aster family member that is perhaps most noted for the long, cylindrical, center disk of each flower and its deeply cut leaves. Flowers bloom in summer. Each flower features a long narrow center disk (cone to 2" long) with 3-7 drooping yellow rays at the base. Leaves (to 5" long) are pinnately lobed. Ray flowers of *R. columnifera* forma *columnifera* are yellow, but the rays of the less common *R. columnifera* forma *pulcherrima* are brownish purple. Cylindrical center disks are dark brown and somewhat resemble in shape the crown of a slender sombrero, hence the additional common name of Mexican hat.

Black Eyed Susan *Rudbeckia hirta*

Common Name: black-eyed Susan
Type: Herbaceous perennial
Family: Asteraceae
Native Range: Central United States
Zone: 3 to 7
Height: 2.00 to 3.00 feet
Spread: 1.00 to 2.00 feet
Bloom Time: June to September
Bloom Description: Yellow to orange-yellow rays and dark brown centers
Sun: Full sun
Water: Medium
Maintenance: Low
Suggested Use: Annual, Naturalize
Flower: Showy
Attracts: Butterflies
Tolerate: Deer, Drought, Clay Soil



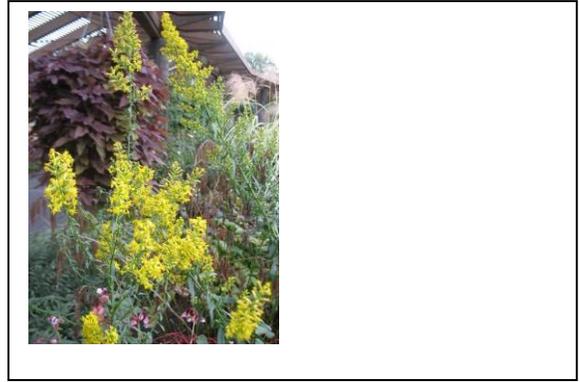
Culture: Biennial or short-lived perennial that is winter hardy to USDA Zones 3-7. It blooms in the first year from seed planted in early spring, and is accordingly often grown as an annual. It is easily grown in average, medium moisture, well-drained soils in full sun. Best in moist, organically rich soils. Tolerates heat, drought and a wide range of soils except poorly-drained wet ones. For best result from seed in the St. Louis area, start seed indoors around March 1. Seed may also be sown directly in the garden at last frost date. Some varieties are available in cell/six packs from nurseries. Set out seedlings or purchased plants at last frost date. Deadhead spent flowers to encourage additional bloom and/or to prevent any unwanted self-seeding. Whether or not plants survive from one year to the next, they freely self-seed and will usually remain in the garden through self-seeding.

Noteworthy Characteristics: *Rudbeckia hirta*, commonly called black-eyed Susan, is a common Missouri native wildflower which typically occurs in open woods, prairies, fields, roadsides and waste areas throughout the State. It is a coarse, hairy, somewhat weedy plant that features daisy-like flowers (to 3" across) with bright yellow to orange-yellow rays and domed, dark chocolate-brown center disks. Blooms throughout the summer atop stiff, leafy, upright stems growing 1-3' tall. Rough, hairy, lance-shaped leaves (3-7" long). Plants of this species are sometimes commonly called gloriosa daisy, particularly the larger-flowered cultivars that come in shades of red, yellow, bronze, orange and bicolors.

Gray Goldenrod

Solidago nemoralis

Common Name: old field goldenrod
Type: Herbaceous perennial
Family: Asteraceae
Native Range: Canada, United States
Zone: 3 to 9
Height: 0.50 to 2.00 feet
Spread: 0.50 to 2.00 feet
Bloom Time: August to September
Bloom Description: Yellow
Sun: Full sun
Water: Dry to medium
Maintenance: Low
Suggested Use: Naturalize
Flower: Showy
Attracts: Butterflies
Tolerate: Deer, Drought, Dry Soil, Shallow-Rocky Soil



Culture: Easily grown in average, dry to medium, slightly acidic, well-drained soils in full sun. Prefers full sun and dry soil. Tolerates light shade. Intolerant of full shade. Likes rocky, sandy soils. Tolerates poor soils, but plants generally grow taller and more vigorously in rich soils. This is a rhizomatous, spreading, somewhat weedy plant that can colonize an area by creeping rhizomes and self-seeding. Removal of flower heads prior to ripening of seed, if practicable, will help prevent seed dispersal.

Noteworthy Characteristics: *Solidago nemoralis*, commonly called old field goldenrod, is a rhizomatous, upright perennial of the sunflower family that typically grows to a very compact 6" to 24" tall (infrequently to 30" tall). It is one of the smallest of the many species of goldenrod. It is native to North America across the southern provinces of Canada from Newfoundland to British Columbia and in the U. S. from Maine to Florida west to Montana and New Mexico. It is found throughout the State of Missouri in a variety of locations including old or fallow fields, dry open ground, prairies, leached or eroded slopes, glades, loess hills, dry open woods, thickets, roadsides and along railroads (Steyermark).

This is an erect perennial that typically features a clump of 1-6 unbranched gray-green stems densely covered with short white hairs. Stems are clad with alternate, narrow lanceolate to oblanceolate, gray green leaves (to 4" long and 3/4" wide) with fine hairy surfaces. Larger lower leaves have winged petioles and toothed margins. Smaller upper leaves lack winged petioles and toothed margins.

Flowering from August to November, the stems are topped with narrow, often downward-arching, one-sided, bright yellow flower plumes (panicles to 4-10" long), with the flowerheads (each to 1/4" across") primarily located on the upper side of each panicle. Flowerheads are replaced after bloom by hairy achenes.

Goldenrods are attractive to bees and butterflies. Goldenrods have been wrongfully accused of causing hay fever which is actually an allergic reaction to wind-borne pollen from other plants such as ragweed.

Stiff Goldenrod

Solidago rigida

Common Name: goldenrod
Type: Herbaceous perennial
Family: Asteraceae
Native Range: Eastern and northeastern United States
Zone: 3 to 9
Height: 3.00 to 5.00 feet
Spread: 1.50 to 2.50 feet
Bloom Time: August to September
Bloom Description: Yellow
Sun: Full sun
Water: Medium
Maintenance: Medium
Suggested Use: Naturalize
Flower: Showy
Attracts: Butterflies
Tolerate: Deer, Clay Soil



Culture: Easily grown in average, medium, well-drained soil in full sun. Remove spent flower clusters to encourage additional bloom.

Noteworthy Characteristics: *Solidago rigida*, commonly known as stiff goldenrod, is a somewhat weedy, rhizomatous, Missouri native perennial which typically occurs in open woods, glades, thickets and prairies throughout most of the State. Features tiny, bright yellow, daisy-like flowers borne in dense, erect, flat-topped terminal clusters atop stiff, broad-leaved, hairy stems typically growing 3-5' tall. Individual flowers (to 1/2" diameter) are larger than those of most other native Missouri goldenrods. Flowers bloom late summer to early autumn. Goldenrods have been wrongfully accused of causing hay fever which is actually an allergic reaction to wind-borne pollen from other plants such as ragweed. Attractive to bees and butterflies.

Sky Blue Aster *Symphotrichum oolentangiense*

Common Name: skyblue aster
Type: Herbaceous perennial
Family: Asteraceae
Native Range: Eastern North America
Zone: 3 to 8
Height: 2.00 to 3.00 feet
Spread: 1.50 to 2.00 feet
Bloom Time: September to October
Bloom Description: Blue rays with yellow center disks
Sun: Full sun
Water: Dry to medium
Maintenance: Low
Suggested Use: Naturalize
Flower: Showy
Attracts: Butterflies
Tolerate: Drought, Erosion, Dry Soil, Shallow-Rocky Soil



Culture: Easily grown in average, dry to medium, well-drained soils in full sun to light shade. Tolerates a wide range of soils. Also tolerates drought. Spreads by rhizomes and self-seeding. May be grown from seed.

Noteworthy Characteristics: *Symphotrichum oolentangiense*, commonly called sky blue aster, azure aster or blue devils, is native to prairies, fields, wood margins and rocky slopes from Ontario and New York to Minnesota south to Georgia, Alabama and Texas. In Missouri, it is found in scattered locations throughout the State (Steyermark). It is a rhizomatous perennial that typically grows 2-3' tall. Daisy-like flowers (.5 to 1" across) with blue to blue-violet rays and yellow center disks bloom in many-flowered panicles in September and October. Ovate-lanceolate to oblong lower basal leaves (to 5" long) are rough-hairy, often serrate and cordate at the base. Lanceolate upper leaves are much smaller, narrower and sessile. Flowers are attractive to butterflies. This aster is synonymous with and formerly known as *Aster azureus*. Some authorities now designate it as *Symphotrichum oolentangiense*.

Golden Alexanders *Zizia aurea*

Common Name: golden Alexander
Type: Herbaceous perennial
Family: Apiaceae
Native Range: Eastern Canada to southern United States
Zone: 3 to 8
Height: 1.50 to 3.00 feet
Spread: 1.50 to 2.00 feet
Bloom Time: May to June
Bloom Description: Yellow
Sun: Full sun to part shade
Water: Medium
Maintenance: Medium
Suggested Use: Naturalize, Rain Garden
Flower: Showy, Good Cut
Attracts: Butterflies



Culture: Grow in average, medium moisture, well-drained soils in full sun to part shade.

Noteworthy Characteristics: *Zizia aurea*, commonly called golden Alexander, is a Missouri native perennial which occurs most often in small colonies in moist woods and meadows, thickets, glades and prairies. Features flat-topped clusters (compound umbels) of tiny yellow flowers in late spring atop stems growing to 3' tall. Distinguished from other carrot family members by the absence of a flower stalk on the central flower of each umbel. Both basal and stem leaves are compound biternate with toothed leaflets. The similar *Zizia aptera* has simple, heart-shaped basal leaves. Golden Alexander is a food plant for the larvae of the Missouri woodland swallowtail butterfly (*Papilio joanae*).