



Fort Wayne Plant List

Plant List Introduction

Native plant species are recommended over exotic foreign species because they are well adapted to local climate conditions. This will result in less replacement and maintenance, while supporting the local ecology.

The list is intended as a guide for general planting purposes and planning considerations. Knowledgeable landscape designers and nursery suppliers may provide additional information for considering specific conditions for successful plant establishment and accounting for the variable nature of stormwater hydrology. Because individual plants often have unique growing requirements difficult to convey in a general listing, it will be necessary to research specific information on the plant species proposed in order to ensure successful plant establishment.

Chapter 100 of the municipal code of the city of Fort Wayne references the most up to date prohibited species list. Table 5.3.1 is divided into two sections: the “A” list and the “B” list. The “A” list exclusively identifies native plants that are best adapted to the climate in Fort Wayne, perform strongest in stormwater management applications, and are known to be commercially available. The “B” list identifies plants that are both native and non-native, have a more limited application in stormwater management and may have limited availability. The lists are organized by Type and Scientific Name. Additional information given for each species includes: Common name, Soil Moisture Tolerances, Soil Type, Salt Tolerance, Sun Exposure, Mature Plant Height, Mature Plant Width, Bloom Period, Flower Color (image), and Notes to provide guidance for application and selection. For example, some trees are well suited to landscaped areas that will receive storm water runoff, while others may not tolerate the additional moisture.

* Photos have been provided by Earth Source, INC., Missouri Botanical Garden Plant Finder and John Hilty

Soil Moisture

The following table identifies the range of soil moisture tolerances, indicated by shaded boxes in the plant list.

| SOIL MOISTURE DESCRIPTION | | | | | | | | |
|---------------------------------|--|---|---|---|--|---------------------------------------|---------------------------------------|--|
| Wet | | | Moist | | | Dry | | |
| Shallow Emergent 1-12" of water | Saturated soils and poorly drained. Temporary inundation up to 12" | Saturated soils and poorly drained. Temporary inundation up to 6" | Saturated soils and somewhat poorly drained. Temporary inundation | Medium soil moisture and moderate drainage. Occasional inundation | Medium soil moisture and moderate drainage. Rarely inundated | Medium soil moisture and well drained | Medium soil moisture and well drained | Excessively dry and well drained soils |

Salt Tolerance

This column ranks the relative tolerance of a species to salt content in the soil. If “unknown” is displayed, no research was found for that particular species.

Soil Type

This column identifies the range of soil types each plant will tolerate. Where applicable, more specific soil limitations are provided in the Notes column.

Loam is a rich, fertile soil type (texture) consisting of a balanced mixture of sand, silt and clay. Typically, loam contains about 40% sand, 40% silt, and 20% clay.

Sand is a component of soil comprised of coarse granules of inert matter. A sandy soil is porous and allows air to reach a plant’s root zone, however it does not hold much water or nutrients.

Clay is another component of soil and is comprised of extremely fine particles of a crystalline material which allow little air or water to pass through. Clay shrinks when it dries out and expands when it gets wet.

Sun Exposure

The light requirements for each species are listed as ranges between full shade and full sun. At the bottom of the range – full shade – plants thrive in conditions where they receive filtered, or dappled, light for the entire day (such as under an oak tree). In the middle of the range are plants that grow best in part shade, where they are in full shade for 2-3 hours during midday. Plants that require full sun should be sited so that they receive 5 or more hours of direct sun during the growing season. Some plants requiring full sun may still do well in a part shade environment, depending on the quality and duration of the light the plants receive when they are not in the shade.











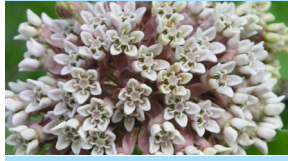



Plant Height and Width

This column provides the approximate mature height of plant species in its native habitat. Native plants can grow much taller if fertilized. Alternatively, the sizes may be reduced in the urban environment where light, space, and other factors may not be as readily available as in a forest or field setting. However, by providing as much space as possible for a plant to grow and by choosing appropriate species for a planting area, improved – if not optimal – growing conditions can be achieved. For example, a tree planted in a sidewalk pit measuring 4 feet x 4 feet may only reach half its mature height, while a tree planted in a 4 foot wide ‘trough’ style planting bed will grow taller and live longer, because it will have greater access to air and water.



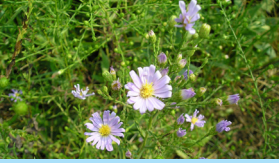

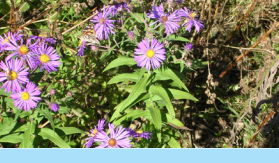





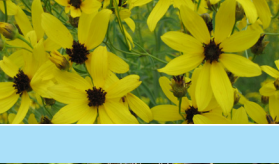


Bloom Period This column indicates the month(s) in which the plant is flowering.



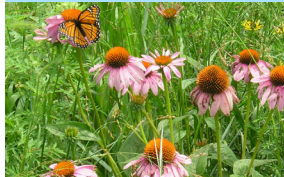













Flower Color This column provides a thumbnail image of the plant’s flower or seedhead to indicate the appearance when in bloom.

"A" Forbs

















| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|---|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Sweet Flag <i>Acorus calamus</i> | 4 | 0 | 0 | Sand Loam | None | 1 | 0 | 2-3 ft | 1-2 ft | May - June |  | Rhizomatous. Prefers slightly acidic to neutral soils. |
|  | Wingstem <i>Actinomeris alternifolia</i> | 0 | 4 | 0 | Sand Loam Clay | Medium | 0 | 3 | 5-6 ft | 1 ft | July - Sept |  | Slightly fragrant flowers. Prefers fertile or highly organic soils. |
|  | Water Plantain <i>Alisma subcordatum</i> | 3 | 0 | 0 | Loam Clay | Low | 1 | 0 | 1-3 ft | 1-2 ft | June - Sept |  | Tolerates slow moving water. Installation depth 0-1". Will spread. Great habitat for parasitic wasp. |
|  | Nodding Wild Onion <i>Allium cernuum</i> | 0 | 3 | 0 | Sand Loam Clay | Low | 2 | 0 | 1-2 ft | .5-1 ft | July - Aug |  | Naturally repels rabbits and deer. |
|  | Marsh Milkweed <i>Asclepias incarnata</i> | 3 | 0 | 0 | Loam Clay | Low | 2 | 0 | 3-5 ft | 1-2 ft | July - Aug |  | Rhizomatous. Slow vegetative spread. |
|  | Common Milkweed <i>Asclepias syriaca</i> | 0 | 0 | 4 | Sand Loam Clay | Medium | 1 | 0 | 3-5 ft | 1-2 ft | June - Aug |  | Rhizomatous. Can be aggressive. |
|  | Butterfly Milkweed <i>Asclepias tuberosa</i> | 0 | 0 | 3 | Sand Loam Clay | None | 2 | 0 | 1-3 ft | 1-2 ft | June - Aug |  | Avoid soils that hold moisture in all seasons to prevent rot. The crown must be planted low enough or will frost heave and winter kill. |







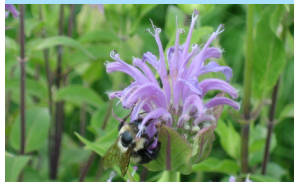

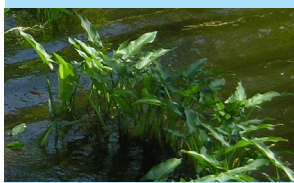







"A" Forbs

















| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|---|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Heath Aster <i>Aster ericoides</i> | 0 | 0 | 4 | Sand Loam Clay | Medium | 1 | 0 | 1-3 ft | 2-3 ft | Sept - Oct |  | Rhizomatous. Tolerates alkaline soils. |
|  | Shining Aster <i>Aster firmus</i> | 0 | 4 | 0 | Loam Clay | None | 2 | 1 | 3-4 ft | 1-2 ft | Sept - Oct |  | Rhizomatous. Prefers fertile organic soils. |
|  | Smooth Aster <i>Aster laevis</i> | 0 | 4 | 0 | Sand Loam Clay | Low | 2 | 1 | 3-4 ft | 1-2 ft | Sept - Oct |  | Rhizomatous. Slow vegetative spread. |
|  | New England Aster <i>Aster novae-angliae</i> | 1 | 4 | 0 | Sand Loam Clay | Medium | 1 | 0 | 3-5 ft | 1-3 ft | Sept - Oct |  | Rhizomatous. Can become aggressive. Older leaves yellow and drop as plant matures. Tends to get powdery mildew. |
|  | Nodding Bur-Marigold <i>Bidens cernua</i> | 1 | 2 | 0 | Sand Loam Clay | Low | 1 | 0 | 1-5 ft | 1-3 ft | June - Sept |  | Annual. Aggressive by seed. Not drought tolerant. |
|  | Lance Leaf Coreopsis <i>Coreopsis lanceolata</i> | 0 | 0 | 4 | Sand Loam Clay | Low | 1 | 0 | 1-3 ft | .5-1 ft | May - July |  | Short lived perennial. Can become aggressive by seed. Prefers nutrient poor soil. |
|  | Tall Coreopsis <i>Coreopsis tripteris</i> | 0 | 4 | 0 | Sand Loam Clay | Low | 1 | 0 | 6-8 ft | 1-2 ft | Aug - Sept |  | Rhizomatous. Once mature it is drought tolerant. |
|  | Swamp Loosestrife <i>Decodan verticillata</i> | 4 | 0 | 0 | Sand Loam Clay | Low | 1 | 0 | 2-8 ft | 2-4 ft | July - Aug |  | Tolerates flowing water. Woody stems. |

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|---|--------------------------|----------------|--------|------------------|----------------|--------------|-------------|---|---|--------------|--------------|-------|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Pale Purple Coneflower <i>Echinacea pallida</i> | Wet: 0, Moist: 4, Dry: 0 | Sand Loam Clay | Low | Sun: 1, Shade: 0 | 3-4 ft | .5-1 ft | June - July |  | Drought tolerant. | | | |
|  | Purple Coneflower <i>Echinacea purpurea</i> | Wet: 0, Moist: 6, Dry: 0 | Sand Loam Clay | Medium | Sun: 2, Shade: 0 | 3-4 ft | 1 ft | June - Aug |  | Prefers moist soils. | | | |
|  | Rattlesnake Master <i>Eryngium yuccifolium</i> | Wet: 0, Moist: 7, Dry: 0 | Sand Loam Clay | Low | Sun: 1, Shade: 0 | 3-5 ft | 1-2 ft | June - Aug |  | Excessive moisture or nutrients will cause the slower stems to fall over. | | | |
|  | Spotted Joe-Pye Weed <i>Eupatorium maculatum</i> | Wet: 1, Moist: 5, Dry: 0 | Sand Loam Clay | None | Sun: 1, Shade: 0 | 4-6 ft | 1-2 ft | Aug - Sept |  | Not drought tolerant. Prefers slightly acidic to neutral soils. | | | |
|  | Common Boneset <i>Eupatorium perfoliatum</i> | Wet: 1, Moist: 5, Dry: 0 | Sand Loam Clay | Medium | Sun: 1, Shade: 0 | 2-4 ft | 1-2 ft | July - Sept |  | Prefers organic soils. Tolerates temporary inundation. | | | |
|  | Little Joe-Pye Weed <i>Eupatorium purpureum</i> | Wet: 0, Moist: 5, Dry: 0 | Sand Loam Clay | Low | Sun: 0, Shade: 3 | 5-7 ft | 1-2 ft | July - Aug |  | Requires increased soil moisture with increased sunlight. | | | |
|  | White Snakeroot <i>Eupatorium rugosum</i> | Wet: 0, Moist: 4, Dry: 0 | Sand Loam Clay | Low | Sun: 0, Shade: 2 | 2-4 ft | 1-2 ft | Sept - Oct |  | Plant size and vigor varies based on soil nutrients. | | | |
|  | Autumn Sneezeweed <i>Helenium autumnale</i> | Wet: 1, Moist: 5, Dry: 0 | Loam Clay | Low | Sun: 2, Shade: 0 | 3-5 ft | 1-2 ft | Sept - Oct |  | Prefers organic soils. | | | |

















"A" Forbs

| | Common Name Latin Name | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|---|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Downy Sunflower <i>Helianthus mollis</i> | 0 | 0 | 4 | Sand Loam Clay | Medium | 1 | 0 | 3-6 ft | 1-2 ft | July - Sept |  | Rhizomatous. Can become aggressive. Drought tolerant. Alleopathic. |
|  | False Sunflower <i>Heliopsis helianthoides</i> | 0 | 4 | 0 | Sand Loam Clay | Low | 2 | 1 | 4-6 ft | 1-2 ft | July - Aug |  | Short lived perennial. Can become aggressive by seed. Prefers moist loamy soils. |
|  | Swamp Rose Mallow <i>Hibiscus palustris</i> | 1 | 2 | 0 | Sand Loam Clay | Low | 1 | 0 | 4-7 ft | 1-2 ft | Aug - Sept |  | Soils must stay moist. |
|  | Blue Flag Iris <i>Iris virginica shrevei</i> | 4 | 0 | 0 | Sand Loam Clay | Medium | 2 | 1 | 2-4 ft | 1-2 ft | May-July |  | Less flowering in partial shade and dry conditions. Rhizomatous. Slow vegetative spread. |
|  | Water Willow <i>Justicia americana</i> | 4 | 0 | 0 | Sand Loam | Low | 1 | 0 | 1-2 ft | 1-2 ft | June - July |  | Rhizomatous and aggressive. Tolerates flowing water and fluctuating water depths up to 2' deep. |
|  | Round-Headed Bush Clover <i>Lespedeza captiata</i> | 0 | 4 | 0 | Sand Loam Clay | Low | 1 | 0 | 3-4 ft | 1-2 ft | Aug - Sept |  | Nitrogen fixing legume. Drought tolerant. Tolerates nutrient poor soils. |
|  | Marsh Blazing Star <i>Liatris spicata</i> | 0 | 3 | 0 | Loam Clay | Medium | 1 | 0 | 3-5 ft | .5 ft | July - Aug |  | Corm can be divided. Drought tolerant. Excessive shading will cause the flower stems to fall over. Prefers moist soils. |
|  | Cardinal Flower <i>Lobelia cardinalis</i> | 1 | 3 | 0 | Loam Clay | Medium | 3 | 0 | 1-2 ft | .5 ft | Aug - Sept |  | Short lived. Plant size and vigor varies based on soil nutrients. |









| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|--|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---|--|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | 0 | 1 | 2 | | | 3 | 4 | | | | | |
|  | Great Blue Lobelia <i>Lobelia siphilitica</i> | 1 | 1 | 1 | Sand Loam Clay | Medium | 1 | 1 | 1-3 ft | .5-1 ft | Aug - Sept |  | Plant size and vigor varies based on soil nutrients. |
|  | Common Water Horehound <i>Lycopus americanus</i> | 1 | 1 | 1 | Loam Clay | Low | 1 | 0 | 2-3 ft | 1-2 ft | July - Aug |  | Rhizomatous. Moderate vegetative spread. |
|  | Monkeyflower <i>Mimulus ringens</i> | 1 | 1 | 1 | Sand Loam Clay | Medium | 1 | 0 | 2-5 ft | .5-1 ft | July - Sept |  | Rhizomatous. Slow vegetative spread. Plant size varies based on soil fertility. |
|  | Wild Bergamot <i>Monarda fistulosa</i> | 0 | 1 | 1 | Sand Loam Clay | Medium | 1 | 0 | 3-5 ft | 1-3 ft | July - Aug |  | Rhizomatous. Can be aggressive. Tends to get powdery mildew. |
|  | Arrow Arum <i>Peltandra virginica</i> | 1 | 0 | 0 | Sand Loam Clay | Low | 1 | 1 | 2-3 ft | 1-2 ft | June - July |  | Spreads by vegetative offshoots of parent plant. |
|  | Foxglove Beardtongue <i>Penstemon digitalis</i> | 0 | 1 | 1 | Loam Clay | Low | 1 | 1 | 2-4 ft | .5-1 ft | May - July |  | Spreads by vegetative offshoots of parent plant. |
|  | Ditch Stonecrop <i>Penthorum sedoides</i> | 1 | 1 | 1 | Loam | Medium | 1 | 0 | 1-2 ft | .5-1 ft | June - Sept |  | Prefers organic soils. |
|  | Purple Prairie Clover <i>Petalostemum purpureum</i> | 0 | 1 | 1 | Sand Loam Clay | Low | 1 | 0 | 1-3 ft | 1-2 ft | June - Aug |  | Nitrogen fixing legume. Slow to mature. Drought tolerant. Tolerates nutrient poor soils. |

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|--|---|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---|--|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Pickerel Weed <i>Pontederia cordata</i> | █ | | | Sand Loam Clay | Low | █ | | 2-3 ft | 1-2 ft | July - Sept |  | Intolerant of dry soils. Prefers highly organic soils. |
|  | Common Mountain Mint <i>Pycnanthemum virginianum</i> | | █ | █ | Sand Loam Clay | Low | █ | | 2-3 ft | 1-2 ft | June - Aug |  | Rhizomatus. Moderate vegetative growth in moist soils. |
|  | Yellow Coneflower <i>Ratibida pinnata</i> | | █ | █ | Sand Loam Clay | Medium | █ | | 4-6 ft | 1-2 ft | July - Aug |  | Excessive moisture or nutrients will cause the flower stems to fall over. |
|  | Showy Black-Eyed Susan <i>Rudbeckia fulgida speciosa</i> | | █ | █ | Sand Loam | Low | █ | | 1-2 ft | 1 ft | July - Sept |  | Short lived perennial. Can become aggressive by seed. Tends to get powdery mildew. |
|  | Black-Eyed Susan <i>Rudbeckia hirta</i> | | █ | █ | Sand Loam Clay | Medium | █ | █ | 1-2 ft | .5 ft | June - July |  | Rhizomatus. |
|  | Green-Headed Coneflower <i>Rudbeckia laciniata</i> | | █ | █ | Sand Loam Clay | Low | █ | █ | 5-7 ft | 1-2 ft | July - Sept |  | Bunch type grass. |
|  | Sweet Black-Eyed Susan <i>Rudbeckia subtomentosa</i> | | █ | █ | Loam Clay | Low | █ | █ | 3-5 ft | 1-2 ft | Aug - Sept |  | Longest-lived Rudbeckia. |
|  | Brown-Eyed Susan <i>Rudbeckia triloba</i> | | █ | █ | Sand Loam Clay | Low | █ | █ | 3-5 ft | 1-2 ft | July - Aug |  | Short lived perennial to biennial. |




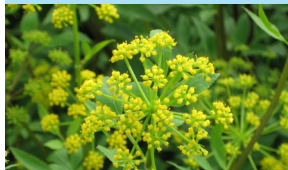
"A" Forbs

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|--|---------------|---------------|-------------|----------------|----------------|--------------|---------------|--------------|-------------|--------------|---|--|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Common Arrowhead <i>Sagittaria latifolia</i> | Wet: 3 bars | Moist: 0 bars | Dry: 0 bars | Sand Loam Clay | Medium | Sun: 1 bar | Shade: 0 bars | 1-3 ft | 1-2 ft | July - Sept |  | Rhizomatous. Can become aggressive. Tolerates highly alkaline soils. |
|  | Lizard's Tail <i>Saurusus cernuus</i> | Wet: 2 bars | Moist: 0 bars | Dry: 0 bars | Loam | None | Sun: 0 bars | Shade: 3 bars | 1-2 ft | 1 ft | June - July |  | Rhizomatous. Can become aggressive. Leaves may yellow in excessive sunlight. |
|  | Wild Senna <i>Senna hebecarpa</i> | Wet: 0 bars | Moist: 4 bars | Dry: 0 bars | Loam | Low | Sun: 2 bars | Shade: 0 bars | 4-6 ft | 1-2 ft | July - Aug |  | Nitrogen fixing legume. |
|  | Rosinweed <i>Silphium intefrifolium</i> | Wet: 0 bars | Moist: 3 bars | Dry: 0 bars | Sand Loam Clay | Low | Sun: 1 bar | Shade: 0 bars | 5-7 ft | 2-3 ft | June - July |  | Drought tolerant. |
|  | Compass Plant <i>Silphium laciniatum</i> | Wet: 0 bars | Moist: 3 bars | Dry: 0 bars | Sand Loam Clay | Low | Sun: 1 bar | Shade: 0 bars | 7-9 ft | 1-2 ft | June - July |  | Slow to mature. Drought tolerant. Extremely large leaves oriented North and South. |
|  | Cup Plant <i>Silphium perfoliatum</i> | Wet: 0 bars | Moist: 4 bars | Dry: 0 bars | Sand Loam | Medium | Sun: 0 bars | Shade: 3 bars | 6-8 ft | 2-3 ft | July - Aug |  | Can be aggressive by seed. Deep fibrous root system. High value for wildlife. |
|  | Prairie Dock <i>Silphium terebinthinaceum</i> | Wet: 0 bars | Moist: 4 bars | Dry: 0 bars | Loam | Low | Sun: 1 bar | Shade: 0 bars | 5-8 ft | 3-4 ft | July - Aug |  | Slow to mature. Drought tolerant. |
|  | Whorled Rosinweed <i>Silphium trifoliatum</i> | Wet: 0 bars | Moist: 3 bars | Dry: 0 bars | Sand Loam Clay | Low | Sun: 2 bars | Shade: 0 bars | 4-5 ft | 2-3 ft | July - Aug |  | Less aggressive than <i>Silphium intergrifolium</i> . Extremely large leaves. |








"A" Forbs









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|--|--|---------------|---------------|-------------|----------------|----------------|--------------|---------------|--------------|-------------|--------------|--------------|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Grass-Leaved Goldenrod <i>Solidago graminifolia</i> | Wet: 4 bars | Moist: 4 bars | Dry: 0 bars | Sand Loam Clay | Medium | Sun: 1 bar | Shade: 0 bars | 3-4 ft | 1-2 ft | Sept - Oct | Yellow | Prefers organic soils. Drought tolerant. Can become aggressive. |
|  | Grey Goldenrod <i>Solidago nemoralis</i> | Wet: 0 bars | Moist: 0 bars | Dry: 4 bars | Sand Loam Clay | Medium | Sun: 1 bar | Shade: 0 bars | 1-2 ft | 1 ft | Aug - Oct | Yellow | Drought tolerant. Tolerates nutrient poor soils. |
|  | Riddel's Goldenrod <i>Solidago reddellii</i> | Wet: 4 bars | Moist: 4 bars | Dry: 0 bars | Loam Clay | Low | Sun: 1 bar | Shade: 0 bars | 2-3 ft | .5-1 ft | Aug - Oct | Yellow | Rhizomatus. Tolerates alkaline soils. |
|  | Stiff Goldenrod <i>Solidago rigida</i> | Wet: 0 bars | Moist: 0 bars | Dry: 6 bars | Sand Loam Clay | Medium | Sun: 1 bar | Shade: 0 bars | 3-4 ft | 1-2 ft | Aug - Oct | Yellow | Aggressive by seed. |
|  | Showy Goldenrod <i>Solidago speciosa</i> | Wet: 0 bars | Moist: 6 bars | Dry: 0 bars | Sand Loam Clay | Low | Sun: 2 bars | Shade: 1 bar | 2-4 ft | 1-2 ft | Sept - Oct | Yellow | Excessive moisture or nutrients will cause the flower stems to fall over. |
|  | Giant Burreed <i>Sparanium eurycarpum</i> | Wet: 3 bars | Moist: 0 bars | Dry: 0 bars | Sand Loam Clay | Low | Sun: 1 bar | Shade: 0 bars | 3-6 ft | 2-3 ft | June - July | Green | Rhizomatus. Can become aggressive. Requires fertile soils. Intolerant of strong flowing water or wave action. Highly platable to animals. |
|  | Ohio Spiderwort <i>Tradescantia ohioensis</i> | Wet: 0 bars | Moist: 6 bars | Dry: 0 bars | Sand Loam Clay | Medium | Sun: 1 bar | Shade: 0 bars | 2-4 ft | 1-2 ft | May - July | Purple | Foliage dies back to ground after flowering. Flowers open only on cloudy days and sunny mornings. |
|  | Blue Vervain <i>Verbena hastata</i> | Wet: 4 bars | Moist: 4 bars | Dry: 0 bars | Loam Clay | Medium | Sun: 1 bar | Shade: 0 bars | 4-6 ft | .5-1 ft | July - Aug | Dark Purple | Prefers organic soils. Tolerates temporary inundation. |

"A" Forbs



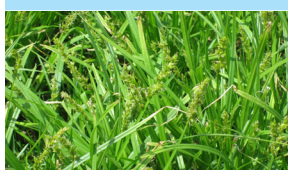
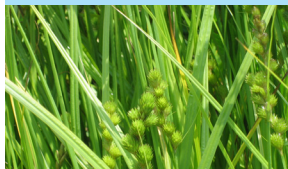
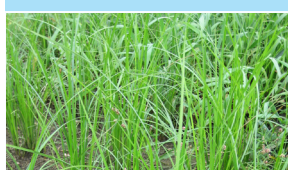

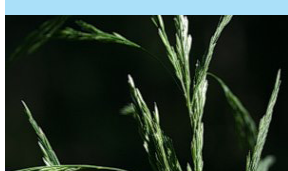

| Image | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|---|--|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|--------------|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Hoary Vervain <i>Verbana stricta</i> | 4 | 0 | 0 | Sand Loam Clay | Medium | 1 | 0 | 2-5 ft | .5-1 ft | June - Aug | Light Purple | Drought tolerant. Tolerates nutrient poor soils. Plant size and vigor varies based on soil nutrients. |
|  | Tall Ironwood <i>Veronia gigantea</i> | 0 | 4 | 0 | Sand Loam Clay | Low | 2 | 1 | 4-6 ft | 2-3 ft | July - Aug | Dark Purple | Can be affected by rust. |
|  | Culver's Root <i>Veronicastrum virginicum</i> | 0 | 4 | 0 | Sand Loam Clay | None | 2 | 1 | 5-7 ft | 1-2 ft | June - Aug | White | Rhizomatous. Slow vegetative spread. |
|  | Golden Alexanders <i>Zizia aurea</i> | 0 | 4 | 0 | Sand Loam Clay | Low | 2 | 1 | 2-3 ft | 1-2 ft | May - June | Yellow | Prefers organic soil. |

“A” Graminoids







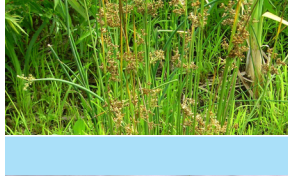

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|---|---------------|-------|-----|----------------|----------------|--------------|---|--------------|-------------|--------------|--------------|---|
| | | Wet | Moist | Dry | | | Texture | | | | | | |
| | | Sun | Shade | | | | | | | | | | |
|  | Blue Bluestem <i>Andropogon gerardii</i> | █ | █ | █ | Sand Loam Clay | Medium | █ | | 6-8 ft | 1-3 ft | July - Aug | Coarse | Bunch type grass. Dead vegetable will lay flat in the winter. Can be aggressive. |
|  | Side-Oats Grama <i>Bouteloua curtipendula</i> | | | █ | Sand Loam Clay | Low | █ | | 1-3 ft | .5-1 ft | July - Aug | Medium | Rhizomatous. Slow vegetative growth once established. Palatable to grazing animals. |
|  | Blue-Joint Grass <i>Calamagrostis canadensis</i> | █ | █ | █ | Loam Clay | None | █ | | 3-5 ft | 3-5 ft | May - June | Medium | Rhizomatous and aggressive once established. |
|  | Prairie Oval Sedge <i>Carex bicknelli</i> | | | █ | Sand Loam Clay | None | █ | | 2-3 ft | 2-3 ft | May - June | Medium | Bunch type sedge. Prefers slightly acidic soils. |
|  | Bristly Sedge <i>Carex comosa</i> | █ | | | Loam Clay | Low | █ | | 1-3 ft | 1-3 ft | June - July | Coarse | Rhizomatous. Slow vegetative growth. |
|  | Crested Sedge <i>Carex cristatella</i> | █ | █ | █ | Loam Clay | Low | █ | █ | 1-3 ft | 1-3 ft | May - June | Fine | Bunch type sedge. |
|  | Emory's Sedge <i>Carex emoryi</i> | █ | █ | █ | Sand Loam Clay | Medium | █ | █ | 2-3 ft | 2-3 ft | April - May | Fine | Rhizomatous and aggressive. Tolerates flowing water. Tolerates alkaline soils. |

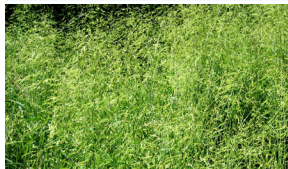







| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color Texture | Notes |
|--|--|---|-------|-------|----------------|----------------|------------------------------|-------|--------------|-------------|--------------|-----------------------------|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | | Moist | | | Dry | | | | | | |
|  | Frank's Sedge <i>Carex frankii</i> | [Wet: 4 bars, Moist: 2 bars, Dry: 0 bars] | | | Loam Clay | Medium | [Sun: 3 bars, Shade: 0 bars] | | 1-2 ft | 1-2 ft | June - July | Coarse | Rhizomatous. Moderate vegetative growth. Spreads aggressively by seed. |
|  | Meadow Sedge <i>Carex granularis</i> | [Wet: 0 bars, Moist: 6 bars, Dry: 0 bars] | | | Loam Clay | Low | [Sun: 3 bars, Shade: 0 bars] | | 1-2 ft | 1-2 ft | May - June | Medium | Bunch type sedge. Do not fertilize. |
|  | Porcupine Sedge <i>Carex hystericina</i> | [Wet: 4 bars, Moist: 2 bars, Dry: 0 bars] | | | Sand Loam Clay | Medium | [Sun: 2 bars, Shade: 0 bars] | | 1-2 ft | 1-2 ft | May - June | Medium | Rhizomatous. Slow vegetative growth once established. Requires fertile soils. |
|  | Lakebank Sedge <i>Carex lacustris</i> | [Wet: 4 bars, Moist: 2 bars, Dry: 0 bars] | | | Loam Clay | Medium | [Sun: 3 bars, Shade: 0 bars] | | 2-4 ft | 2-4 ft | April - May | Coarse | Rhizomatous and aggressive. |
|  | Field Oval Sedge <i>Carex molesta</i> | [Wet: 0 bars, Moist: 3 bars, Dry: 0 bars] | | | Sand Loam Clay | Low | [Sun: 2 bars, Shade: 0 bars] | | 2 ft | 2 ft | May - June | Medium | Bunch type sedge. Tolerates alkaline soils. |
|  | <i>Palm Sedge</i> <i>Carex muskingumensis</i> | [Wet: 3 bars, Moist: 0 bars, Dry: 0 bars] | | | Loam Clay | None | [Sun: 0 bars, Shade: 1 bar] | | 1-2 ft | 1-2 ft | May - June | Fine | Bunch type sedge. Prefers slightly acidic soils. |
|  | <i>Spreading Oval Sedge</i> <i>Carex normalis</i> | [Wet: 4 bars, Moist: 2 bars, Dry: 0 bars] | | | Loam Clay | None | [Sun: 1 bar, Shade: 2 bars] | | 5-10 ft | 6-10 ft | May - June | Fine | Bunch type sedge. Prefers slightly acidic soils. |
|  | <i>Wooley Sedge</i> <i>Carex pellita</i> | [Wet: 4 bars, Moist: 2 bars, Dry: 0 bars] | | | Sand Loam Clay | Low | [Sun: 2 bars, Shade: 0 bars] | | 1-2 ft | 1-2 ft | May | Fine | Rhizomatous and aggressive. Tolerates alkaline soils. |






"A" Graminoids

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color Texture | Notes |
|--|--|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|-----------------------------|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | | | | | | | | | | | | |
|  | Lance-Fruited Oval Sedge <i>Carex scoparia</i> | █ | █ | | Loam Clay | Low | █ | | 2-3 ft | 2-3 ft | May | Fine | Bunch type sedge. Prefers slightly acidic soils. |
|  | Short's Sedge <i>Carex shortiana</i> | █ | █ | █ | Loam Clay | Low | █ | █ | 2-3 ft | 2-3 ft | May | Medium | Bunch type sedge. Prefers slightly acidic soils. |
|  | Stalk Grain Sedge <i>Carex stipata</i> | | █ | █ | Sand Loam Clay | Low | █ | █ | 2-3 ft | 2-3 ft | May | Medium | Bunch type sedge. Tolerates drier soils in partial shade. |
|  | Pointed Oval Sedge <i>Carex tribuloides</i> | █ | █ | █ | Sand Loam Clay | Low | █ | █ | 2-3 ft | 2-3 ft | May | Fine | Bunch type sedge. |
|  | Hairy-Fruited Lake Sedge <i>Carex trichocarpa</i> | █ | █ | █ | Loam Clay | Low | █ | █ | 2-4 ft | 2-4 ft | May | Fine | Rhizomatous and aggressive. Requires fertile soils. Tolerates alkaline soils. |
|  | Fox Sedge <i>Carex vulpinoidea</i> | █ | █ | █ | Sand Loam Clay | Medium | █ | █ | 1-2 ft | 1-2 ft | May - July | Fine | Bunch type sedge. Can be aggressive with low competition from other plants. |
|  | Common Wood Reed <i>Cinna arundianacea</i> | █ | █ | █ | Loam | None | | █ | 3-5 ft | 1-2 ft | Aug - Sept | Medium | Bunch type sedge. Requires fertile soils. |
|  | Common Spikerush <i>Eleocharis palustris</i> | █ | █ | | Sand Clay | Low | █ | | 1-2 ft | .5 ft | May - June | Fine | Rhizomatous. Tolerates alkaline soils. |



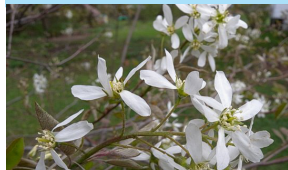


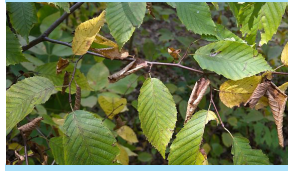







"A" Graminoids

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color Texture | Notes |
|--|---|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|-----------------------------|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | 0 | 1 | 2 | | | 3 | 4 | | | | | |
|  | Canada Wild Rye <i>Elymus canadensis</i> | 0 | 1 | 2 | Sand Loam Clay | Medium | 3 | 4 | 3-5 ft | 1-2 ft | June - July | Coarse | Bunch type grass. Can be aggressive by seed without competition from other plants. Grass blades palatable to grazing animals. |
|  | Riverbank Wild Rye <i>Elymus riparius</i> | 0 | 1 | 2 | Sand Loam Clay | Low | 3 | 4 | 3-5 ft | 1-2 ft | July - Aug | Coarse | Bunch type grass. |
|  | Silky Wild Rye <i>Elymus villosus</i> | 0 | 1 | 2 | Loam | None | 3 | 4 | 1-3 ft | .5-1 ft | June | Fine | Bunch type grass. Requires fertile soils. |
|  | Virginia Wild Rye <i>Elymus virginicus</i> | 0 | 1 | 2 | Sand Loam Clay | Medium | 3 | 4 | 2-4 ft | 1-2 ft | June - July | Coarse | Bunch type grass. Prefers fertile loamy soils. Can be aggressive by seed without competition from other plants. |
|  | Fowl Manna Grass <i>Glyceria striata</i> | 0 | 1 | 2 | Sand Loam Clay | Low | 3 | 4 | 2-4 ft | .5 ft | May - June | Medium | Rhizomatous grass. Prefers fertile loamy soils. |
|  | Bottlebrush Grass <i>Hystrix patula</i> | 0 | 1 | 2 | Sand Loam | Low | 3 | 4 | 3-5 ft | .5-1 ft | June - July | Coarse | Bunch type grass. |
|  | Soft Rush <i>Juncus effusus</i> | 0 | 1 | 2 | Loam | Medium | 3 | 4 | 2-4 ft | 1-2 ft | June - July | Medium | Bunch type grass. Will tolerate sand and gravel soils with adequate soil moisture. |
|  | Torrey's Rush <i>Juncus torreyi</i> | 0 | 1 | 2 | Sand Loam Clay | Medium | 3 | 4 | 1-2 ft | .5 ft | July - Aug | Medium | Rhizomatous rush. Can be aggressive with low competition from other plants. |










| | Common Name Latin Name | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color Texture | Notes |
|--|---|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|-------------------------|--|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | | | | | | | | | | | | |
|  | Rice-Cut Grass <i>Leersia oryzoides</i> | █ | █ | | Sand Loam | Medium | █ | █ | 3-5 ft | 4-6 ft | April - May | Medium | Rhizomatous and aggressive. Prefers fertile loam soils. Sharp leaf blades. |
|  | Switch Grass <i>Panicum virgatum</i> | | █ | █ | Sand Loam Clay | High | █ | | 6-8 ft | 6-8 ft | April - May | Medium | Rhizomatous. Moderate vegetative growth. Spreads aggressively by seed. Prefers fertile loam soils. |
|  | Little Bluestem <i>Schizachyrium scoparium</i> | | | █ | Sand Loam Clay | Low | █ | | 6-8 ft | 6-8 ft | April - May | Medium | Bunch type grass. Tolerates soils low in fertility and extreme drought. |
|  | Hardstem Bulrush <i>Scirpus actutus</i> | █ | | | Sand Loam Clay | Medium | █ | | 30-35 ft | 30-35 ft | May-June | Fine | Rhizomatous. Moderate vegetative growth. |
|  | Dark Green Bulrush <i>Scirpus atrovirens</i> | █ | █ | | Sand Loam Clay | Medium | █ | █ | 70-80 ft | 25 ft | May-June | Coarse | Rhizomatous. Moderate vegetative growth. Leaves turn yellow when soils are too dry. |
|  | Woolgrass <i>Scirpus cyperinus</i> | █ | █ | | Sand Loam Clay | Medium | █ | █ | 50-100 ft | 35-50 ft | April - May | Fine | Bunch type rush. |
|  | River Bulrush <i>Scirpus fluviatilis</i> | █ | █ | | Loam Clay | Medium | █ | | 50-60 ft | 50-60 ft | April - May | Coarse | Rhizomatous and aggressive. Tolerates alkaline soils. |
|  | Drooping Bulrush <i>Scirpus pendulus</i> | █ | █ | | Loam Clay | Medium | █ | █ | 3-5 ft | .5-1 ft | May - June | Medium | Bunch type rush. Will tolerate sand and gravel soils with adequate soil moisture. Leaves turn yellow when soils are too dry. |

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color Texture | Notes |
|--|---|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|-----------------------------|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | | | | | | | | | | | | |
|  | Three-Square Bulrush <i>Scirpus pungens</i> | 4 | 0 | 0 | Sand Loam Clay | Medium | 1 | 0 | 2-5 ft | .5 ft | June | Fine | Rhizomatous and aggressive. Prefers alkaline soils. |
|  | Soft-Stem Bulrush <i>Scirpus validus</i> | 4 | 0 | 0 | Sand Loam Clay | Medium | 1 | 0 | 4-6 ft | 1-2 ft | May - June | Fine | Rhizomatous and aggressive. Thrives in soil disturbance areas. Intolerant of flowing water or constant wave action. |
|  | Indian Grass <i>Sorghastrum nutans</i> | 0 | 0 | 4 | Sand Loam Clay | Medium | 2 | 0 | 5-7 ft | 1-2 ft | Aug - Sept | Medium | Bunch type grass. Can spread aggressively by seed without competition from other plants. Tolerates extreme drought. |
|  | Prairie Cordgrass <i>Spartina pectinata</i> | 0 | 3 | 0 | Sand Loam Clay | High | 1 | 0 | 6-8 ft | 3-4 ft | July - Aug | Coarse | Rhizomatous and aggressive. Prefers fertile loam soils. Intolerant if consistent mowing. Tolerates extreme drought. |
|  | Prairie Dropseed <i>Sporobolus heterolepis</i> | 0 | 0 | 4 | Sand Loam | Low | 1 | 0 | 2-3 ft | 1-2 ft | July - Sept | Fine | Bunch type grass. Unique fragrance. |

















"A" Woody Plants

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|--|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---|--|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Red Maple and cultivars <i>Acer rubrum and cvs.</i> | 100% | 0% | 0% | Sand Loam Clay | None | 100% | 0% | 40-70 ft | 30-60 ft | April - May |  | Prefers acidic soils. |
|  | Serviceberry <i>Amelanchier spp.</i> | 0% | 100% | 0% | Sand Loam Clay | Medium | 100% | 0% | 20-25 ft | 10-20 ft | April - May |  | Prefers well drained, acidic soils. |
|  | River Birch <i>Betula nigra and cvs.</i> | 100% | 0% | 0% | Sand Loam Clay | Medium | 100% | 0% | 50 ft | 40 ft | April - May | Catkins | Exfoliating bark. |
|  | American Hornbeam <i>Carpinus caroliniana</i> | 0% | 100% | 0% | Sand Loam Clay | None | 100% | 0% | 20-40 ft | 20-50 ft | April | Inconspicuous | Prefers acidic soils. |
|  | Hackberry <i>Celtis occidentalis</i> | 0% | 100% | 0% | Sand Loam Clay | None | 100% | 0% | 40-60 ft | 40-50 ft | April - May | Inconspicuous | Well adapted to wind and alkaline soils. |
|  | Buttonbush <i>Cephalanthus occidentalis</i> | 100% | 0% | 0% | Sand Loam Clay | None | 100% | 0% | 6-10 ft | 6-10 ft | June - Aug |  | Excellent shoreline component. Common wet woods shrub. Grows well from cuttings. |
|  | Silk Dogwood <i>Cornus amomum</i> | 0% | 100% | 0% | Sand Loam Clay | None | 100% | 0% | 6-8 ft | 6-8 ft | April - May |  | Spreads by suckers to form thickets. |
|  | Gray Dogwood <i>Cornus racemosa</i> | 0% | 100% | 0% | Sand Loam Clay | None | 100% | 0% | 6-10 ft | 6-10 ft | May - June |  | Tolerates gravelly soils. |


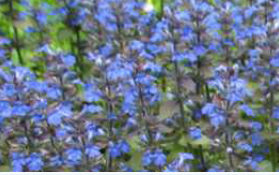










"A" Woody Plants

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|---|--------------------------------|-------|------------------------------|----------------|----------------|--------------------------------|-------|--------------|-------------|--------------|---------------|--|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | [Bar chart with 10 segments] | | [Bar chart with 10 segments] | | | | | | | | | |
|  | Red Osier Dogwood <i>Cornus stolonifera</i> | [Bar chart: 5 segments filled] | | | Sand Loam Clay | None | [Bar chart: 3 segments filled] | | 7-9 ft | 8-10 ft | May - June | [White box] | Red bark. |
|  | Virginia Sweetspire <i>Itea virginica</i> and cvs. | [Bar chart: 6 segments filled] | | | Sand Loam Clay | | [Bar chart: 4 segments filled] | | 3-4 ft | 3-5 ft | May - June | [White box] | Needs shade in areas with hot summers. |
|  | Spicebush <i>Lindera benzoin</i> | [Bar chart: 5 segments filled] | | | Sand Loam Clay | | [Bar chart: 3 segments filled] | | 6-12 ft | 6-12 ft | April - May | [Yellow box] | Prefers moist soils. |
|  | Sweetgum <i>Liquidambar styraciflua</i> | [Bar chart: 7 segments filled] | | | Sand Loam Clay | None | [Bar chart: 2 segments filled] | | 60-75 ft | 40-60 ft | April - May | [Yellow box] | Fruit drop creates a major litter problem in the fall. |
|  | Tulip Poplar <i>Liriodendron tulipifera</i> | [Bar chart: 4 segments filled] | | | Sand Loam Clay | Low | [Bar chart: 2 segments filled] | | 70-90 ft | 35-50 ft | May - June | [Yellow box] | Prefers moist, rich soils. |
|  | <i>Black Gum</i> <i>Nyssa sykvatica</i> | [Bar chart: 5 segments filled] | | | Sand Loam Clay | Medium | [Bar chart: 2 segments filled] | | 30-50 ft | 20-30 ft | April - May | Inconspicuous | Prefers swampy sites, but tolerates average soil moisture. |
|  | <i>Common Ninebark</i> <i>Physocarpus opulifolia</i> | [Bar chart: 6 segments filled] | | | Sand Loam Clay | Low | [Bar chart: 2 segments filled] | | 5-10 ft | 6-10 ft | June | [White box] | Tolerant of many soil conditions. |
|  | Sycamore <i>Platanus occidentalis</i> | [Bar chart: 4 segments filled] | | | Sand Loam Clay | None | [Bar chart: 3 segments filled] | | 3-5 ft | 4-6 ft | April - May | Inconspicuous | Tolerant of city conditions. |
|  | Swamp Oak <i>Quercus bicolor</i> | [Bar chart: 5 segments filled] | | | Sand Loam Clay | Medium | [Bar chart: 2 segments filled] | | 6-8 ft | 6-8 ft | April - May | Catkins | Drought tolerant. |













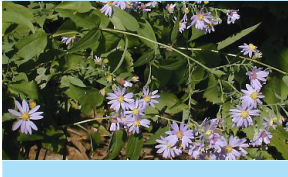



"A" Woody Plants

| | Common Name Latin Name | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|--|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Pin Oak <i>Quercus palustris</i> | 1 | 4 | 0 | Sand Loam Clay | | 1 | 0 | 6-8 ft | 6-8 ft | April - May | Catkins | Chlorosis is a major problem if located in neutral soils. |
|  | Swamp Rose <i>Rosa palustris</i> | 0 | 5 | 0 | Sand Loam Clay | Medium | 1 | 0 | 30-35 ft | 30-35 ft | May-June |  | Ideal for naturalized areas. |
|  | Elderberry <i>Sambucus canadensis</i> | 1 | 5 | 0 | Sand Loam Clay | | 2 | 1 | 70-80 ft | 25 ft | May-June |  | Edible berries. |
|  | Common Bald Cypress <i>Taxodium distichum</i> | 1 | 5 | 0 | Sand Loam Clay | Medium | 1 | 0 | 50-100 ft | 35-50 ft | April - May | Inconspicuous | Deciduous conifer. |
|  | Arrowwood Viburnum <i>Viburnum dentatum</i> | 1 | 5 | 0 | Sand Loam Clay | | 1 | 0 | 50-60 ft | 50-60 ft | April - May |  | Stoloniferous growth habit. |
|  | Nannyberry <i>Viburnum lentago</i> | 0 | 4 | 0 | Sand Loam Clay | | 2 | 1 | 16-18 ft | 6-10 ft | April - May |  | Suckers at base. |
|  | European Cranberry Bush <i>Viburnum opulus and cvs.</i> | 0 | 4 | 0 | Sand Loam Clay | | 2 | 1 | 10-12 ft | 10-12 ft | May - June |  | Prefers fertile, moist soils. |
|  | Blackhaw Viburnum <i>Viburnum prunifolium</i> | 0 | 4 | 0 | Sand Loam Clay | | 2 | 1 | 10-12 ft | 6-8 ft | May |  | Easily transplanted. |
|  | American Cranberry Bush <i>Viburnum trilobum</i> | 0 | 3 | 0 | Sand Loam Clay | | 2 | 1 | 8-10 ft | 8-10 ft | May - June |  | Prefers well drained soils. |


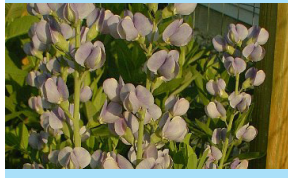













“B” Forbs (Wildflowers)

| | Common Name Latin Name | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|---|---------------|-------|-----|-----------|----------------|--------------|-------|--------------|-------------|--------------|---|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | 0 | 1 | 2 | | | 0 | 1 | | | | | |
|  | Yarrow <i>Achillea spp.</i> | 0 | 1 | 2 | Loam | Low | 1 | 0 | 1.5-3 ft | 1-1.5 ft | July - Sept | Varies with cvs. | Non-native. Prefers well-drained soil. Foilage can irritate skin. |
|  | Bugleweed <i>Ajuga reptans</i> | 0 | 1 | 2 | Sand Loam | | 1 | 0 | 1-3 ft | .5-1.5 ft | April - May |  | Non-native. Evergreen. Tolerates dry soil. Spreads by stolons. |
|  | Candle Anemone <i>Anemone cylindrica</i> | 0 | 1 | 2 | Sand | Low | 1 | 0 | 1-3 ft | .5-1 ft | June - July |  | Alleopathic. |
|  | Purple Stem Angelica <i>Angelica alytopurpurea</i> | 1 | 0 | 0 | Sand Loam | Medium | 1 | 0 | 5-8 ft | 3-4 ft | May - June |  | Requires constant soil moisture. Tolerates alkaline soils. |
|  | Columbine <i>Aquilegia canadensis</i> | 0 | 1 | 2 | Sand Loam | Low | 0 | 1 | 2-3 ft | 1-2 ft | May - June |  | Intolerant of clay soils. |
|  | Spikenard <i>Aralia racemosa</i> | 0 | 1 | 2 | Loam | | 0 | 1 | 3-6 ft | 1.5-3 ft | June - Aug |  | Red berries in late summer. |
|  | Wild Ginger <i>Asarum canadense</i> | 0 | 1 | 2 | Loam | | 0 | 1 | 3-6 ft | 1-1.5 ft | April - June | Inconspicuous | Prefers acidic soils. |









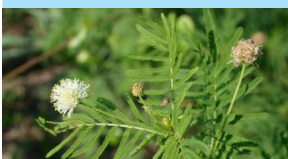

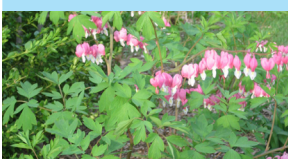





"B" Forbs (Wildflowers)

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|--|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Sky Blue Aster <i>Aster azureus</i> (<i>oolentangiensis</i>) | 0 | 3 | 0 | Sand Loam Clay | Low | 3 | 0 | 1-3 ft | 1-2 ft | Sept |  | Rhizomatous. Slow vegetative spread. Plant size and vigor varies based on soil nutrients. Drought tolerant once established. |
|  | Heart-Leaved Blue Wood Aster <i>Aster cordifolius</i> | 0 | 3 | 0 | Sand Loam | Low | 1 | 2 | 1-3 ft | 1-2 ft | Sept-Oct |  | Rhizomatous. Slow vegetative spread. Plant size and vigor varies based on soil nutrients. |
|  | Side-Flowering Aster <i>Aster lateriflorus</i> | 0 | 4 | 0 | Sand Loam Clay | Low | 1 | 2 | 1-3 ft | 1-2 ft | Sept-Oct |  | Rhizomatous. Slow vegetative spread. Plant size and vigor varies based on soil nutrients. Requires increased soil moisture with increased sunlight. |
|  | Purple Dome Aster <i>Aster novae-angliae</i> 'Purple Dome' | 0 | 4 | 0 | Sand Loam | | 3 | 0 | 1-2 ft | 1-2 ft | Sept-Oct |  | Drought tolerant. |
|  | Purple Daisy Aster <i>Aster patens</i> | 0 | 0 | 4 | Sand Loam | | 3 | 0 | 2-3 ft | 1.5-2 ft | Aug-Oct |  | Drought tolerant. |
|  | Swamp Aster <i>Aster puniceus</i> | 2 | 2 | 0 | Loam Clay | None | 3 | 0 | 3-4 ft | 1-2 ft | Sept-Oct |  | Prefers fertile organic soils. Less aggressive than <i>Aster firmus</i> . Prefers constant soil moisture. |
|  | Short's Aster <i>Aster shortii</i> | 0 | 4 | 0 | Sand Loam | Low | 1 | 2 | 2-3 ft | 1-2 ft | Sept-Oct |  | Tolerates alkaline soils. Flower stalks may droop when in flower. |
|  | Flat-Topped Aster <i>Aster umbellatus</i> | 0 | 4 | 0 | Sand Loam Clay | Medium | 1 | 0 | 3-5 ft | 1-2 ft | Sept-Oct |  | Rhizomatous. Slow vegetative spread. Plant size and vigor varies based on soil nutrients. |



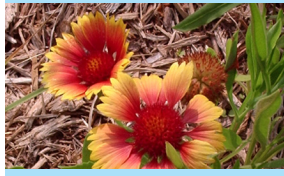











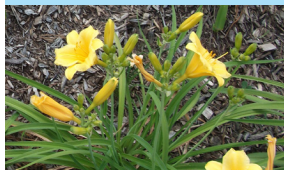
"B" Forbs (Wildflowers)

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|--|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---|--|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Astilbe, False Goat's Beard <i>Astilbe spp.</i> | 0 | 4 | 0 | Loam Clay | None | 1 | 0 | 1-2 ft | 1-1.5 ft | June - July | Varies with cvs. | Non-native. Prefers well-drained soil. |
|  | Blue False Indigo <i>Baptisia australis</i> | 0 | 4 | 0 | Sand Loam Clay | Medium | 3 | 0 | 3-5 ft | 3-4 ft | May - June |  | Nitrogen fixing legume. Drought tolerant. Tolerates nutrient poor soils. Intolerant of alkaline soils. |
|  | White False Indigo <i>Baptisia leucantha</i> | 0 | 4 | 0 | Sand Loam Clay | Medium | 1 | 0 | 4-6 ft | 3-4 ft | June - July |  | Nitrogen fixing legume. Slow to mature. Drought tolerant. Tolerates nutrient poor soils. Intolerant of alkaline soils. |
|  | Ohio Horsemint <i>Belphilia ciliata</i> | 0 | 4 | 0 | Sand Loam Clay | None | 3 | 0 | 1-2 ft | 1-1.5 ft | May - Aug |  | Tolerates limestone and high soil pH. Drought tolerant. |
|  | Hairy Wood Mint <i>Belphilia hirsuta</i> | 0 | 4 | 0 | Loam Clay | None | 0 | 1 | 1-3 ft | 1-2 ft | July - Aug |  | Prefers fertile organic soils. |
|  | Marsh Marigold <i>Calthia palustris</i> | 1 | 0 | 0 | Loam | None | 3 | 0 | 1-2 ft | 1 ft | April |  | Requires constant soil moisture. Tolerates alkaline soils. |
|  | Plumbago, Leadwort <i>Ceratostigma plumbaginoides</i> | 0 | 4 | 0 | Sand Loam Clay | Low | 3 | 0 | .5-1 ft | 1-1.5 ft | July - Oct |  | Non-native. Rhizomatous. |
|  | Partridge Pea <i>Chamaecrista fasciculata</i> | 0 | 4 | 0 | Sand Loam Clay | None | 1 | 0 | .5-1 ft | .5 ft | July - Sept |  | Annual. Nitrogen fixing legume. Drought tolerant. Tolerates nutrient poor soils. |



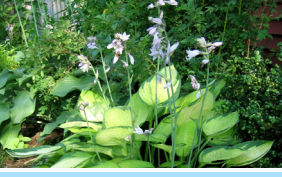










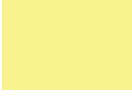


"B" Forbs (Wildflowers)

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|---|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | White Turtlehead <i>Chelone glabra</i> | █ | █ | █ | Sand Loam Clay | None | █ | █ | 2-4 ft | 1-2 ft | Aug - Sept |  | Rhizomatous. Slow vegetative spread. Tolerates alkaline soils. Tolerates temporary inundation. |
|  | Rose Turtlehead <i>Chelone obliqua</i> | █ | █ | █ | Loam | None | █ | █ | 2-4 ft | 1-2 ft | Aug - Sept |  | Rhizomatous. Slow vegetative spread. Requires constant soil moisture. |
|  | Plains Coreopsis <i>Coreopsis palmata</i> | | | █ | Sand Loam Clay | Low | █ | | 1-3 ft | .5-1 ft | July - Aug |  | Rhizomatous. Moderate vegetative growth. |
|  | Showy Tick Trefoil <i>Desmodium canadense</i> | | █ | █ | Sand Loam Clay | Low | █ | | 3-5 ft | .5-1 ft | July - Aug |  | Nitrogen fixing legume. Drought tolerant. Tolerates nutrient poor soils. Tends to get powdery mildew. |
|  | Illinois Tick Trefoil <i>Desmodium illinoiense</i> | | █ | █ | Sand Loam Clay | Low | █ | | 3-5 ft | .5-1 ft | July - Sept |  | Nitrogen fixing legume. Drought tolerant. Tolerates nutrient poor soils. |
|  | Bleeding Heart <i>Dicentra spectabilis</i> | | | █ | Loam | | █ | █ | 2-2.5 ft | 1.5-2 ft | April - June |  | Non-native. Intolerant of wet soils in winter and dry soils in summer. Poisonous if ingested. |
|  | Blue Mist Flower <i>Eupatorium coelestinum</i> | | █ | █ | Loam Clay | Low | █ | | 1-2 ft | 1 ft | Sept - Oct |  | Rhizomatous. Moderate vegetative growth. |
|  | Hollow Joe-Pye Weed <i>Eupatorium fistulosum</i> | █ | █ | █ | Sand Loam | Low | █ | | 7-10 ft | 1-2 ft | Aug - Sept |  | Tolerates temporary inundation. |











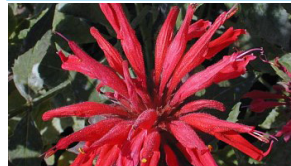



"B" Forbs (Wildflowers)

| | Common Name Latin Name | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|--|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---|--|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | 0 | 1 | 2 | | | 3 | 4 | | | | | |
|  | Queen of the Prairie <i>Filipendula rubra</i> | 1 | 2 | 0 | Loam Clay | Low | 1 | 0 | 4-5 ft | 1-2 ft | June - Aug |  | Rhizomatous. Moderate vegetative growth. Prefers organic soils. |
|  | Indian Blanket Flower <i>Gaillardia x grandiflora</i> | 0 | 0 | 2 | Sand Loam | | 1 | 0 | 2-3 ft | 1-2 ft | June - Sept |  | Drought tolerant. Short-lived perennial. |
|  | Bottle Gentian <i>Gentiana andrewsii</i> | 0 | 1 | 0 | Sand Loam Clay | Low | 1 | 1 | 1-2 ft | .5-1 ft | Aug - Oct |  | Prefers moist organic soils. |
|  | Wild Geranium <i>Geranium maculatum</i> | 0 | 1 | 0 | Loam | | 1 | 1 | 1-2 ft | 1-2 ft | April - May |  | Prefers rich, organic soils. |
|  | Sawtooth Sunflower <i>Helianthus grosseserratus</i> | 0 | 1 | 0 | Sand Loam Clay | Medium | 1 | 0 | 1-3 ft | 1-2 ft | Aug - Sept |  | Rhizomatous. Can become aggressive. Prefers moist organic soils. |
|  | Western Sunflower <i>Helianthus occidentalis</i> | 0 | 1 | 0 | Sand Loam Clay | Low | 1 | 1 | 1-2 ft | 1 ft | July - Aug |  | Rhizomatous. Moderate vegetative growth. Prefers organic soils. Plant size and vigor varies based on soil nutrients. |
|  | Showy Sunflower <i>Helianthus rigidus</i> | 0 | 0 | 2 | Sand Loam Clay | Low | 1 | 0 | .5-1 ft | 1-1.5 ft | Aug - Sept |  | Alleopathic, even to itself. Rhizomatous. Can become aggressive. Tends to get powdery mildew. |
|  | Daylily <i>Hemerocallis species</i> | 0 | 1 | 0 | Sand Loam Clay | Medium | 1 | 1 | .5-1 ft | .5 ft | July - Sept | varies with cvs. | Non-native. Divide regularly to rejuvenate plant. |
















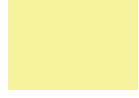
"B" Forbs (Wildflowers)

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|---|---------------|-------|-----|----------------------|----------------|--------------|-----------|--------------|--------------|---|---|-------|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Sharp-lobed Hepatica <i>Hepatica actutiloba</i> | 0 | 4 | 0 | Loam | 0 | 1 | 6 ft | 6-9 ft | March- April |  | Rhizomatous. Slow vegetative spread. Tolerates alkaline soils. Tolerates temporary inundation. | |
|  | Hosta <i>Hosta spp.</i> | 0 | 4 | 0 | Sand Loam Clay | 0 | 2 | 1-3 ft | 1-4 ft | July - Aug |  | Rhizomatous. Slow vegetative spread. Requires constant soil moisture. | |
|  | Iris <i>Iris spp.</i> | 1 | 4 | 0 | Sand Loam Clay | Low | 2 | 1.5-3 ft | 1-2 ft | May - July |  | Rhizomatous. Moderate vegetative growth. | |
|  | Rough Blazing Star <i>Liatris aspera</i> | 0 | 0 | 4 | Sand Loam Clay | Low | 2 | 2-4 ft | .5 ft | July - Sept |  | Nitrogen fixing legume. Drought tolerant. Tolerates nutrient poor soils. Tends to get powdery mildew. | |
|  | Savanna Blazing Star <i>Liatris scariosa nieuwlandii</i> | 1 | 4 | 0 | Sand Loam Clay | Low | 2 | 2-3 ft | .5 ft | July - Aug |  | Nitrogen fixing legume. Drought tolerant. Tolerates nutrient poor soils. | |
|  | Scaly Blazing Star <i>Liatris squarrosa</i> | 0 | 0 | 4 | Sand | | 1 | 1-3 ft | .5 ft | June - Sept |  | Non-native. Intolerant of wet soils in winter and dry soils in summer. Poisonous if ingested. | |
|  | Leopard Plant <i>Ligularia species</i> | 0 | 4 | 0 | Loam | | 1 | 2-3.5 ft | 2-2.5 ft | July - Aug |  | Rhizomatous. Moderate vegetative growth. | |
|  | Lilyturf <i>Liriope spp.</i> | 0 | 0 | 4 | Sand Loam Clay | Low | 2 | .5-1.5 ft | 1-1.5 ft | Aug - Sept |  | Tolerates temporary inundation. | |

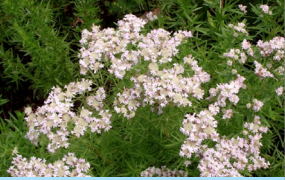





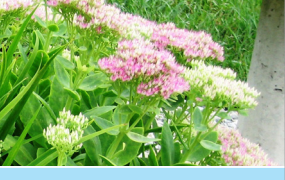









"B" Forbs (Wildflowers)

| | Common Name Latin Name | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|--|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---|--|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | 0 | 1 | 2 | | | 3 | 4 | | | | | |
|  | Bushy Seedbox, Rattlebox <i>Ludwigia alternifolia</i> | 1 | 1 | 0 | Sand Loam Clay | Low | 3 | 0 | 2-4 ft | 1-2 ft | July - Aug |  | Prefers acidic soils. Flower petals will fall when shaken. |
|  | Wild Lupine <i>Lupinus perennis</i> | 0 | 0 | 2 | Sand Loam | Medium | 3 | 0 | 1-2 ft | 1-2 ft | April - May |  | Nitrogen fixing legume. Slow to mature. Drought tolerant. Tolerates nutrient poor soils. Intolerant of alkaline soils. |
|  | Gooseneck Loosestrife <i>Lysimachia clethroides</i> | 1 | 1 | 1 | Sand Loam Clay | | 1 | 0 | 2-3 ft | 1-1.5 ft | Aug |  | Rhizomatous. |
|  | False Solomon's Seal <i>Maianthemum racemosum</i> | 1 | 1 | 1 | Loam | | 0 | 2 | 1-3 ft | 1-2 ft | Mar - June |  | Prefers acidic soils. |
|  | Bluebells <i>Martensia virginica</i> | 1 | 1 | 1 | Loam | | 0 | 2 | 1.5-2 ft | 1-1.5 ft | Mar - April |  | Tolerates black walnuts. |
|  | Secret Beebalm <i>Monarda didyma and cultivars</i> | 0 | 0 | 2 | Sand Loam Clay | | 3 | 0 | 3-4 ft | 2-3 ft | July - Aug | varies with cvs. | Does not tolerate drought. Tends to get powdery mildew. |
|  | Peony <i>Paeonia spp.</i> | 0 | 0 | 2 | Loam | | 3 | 0 | 2-3 ft | 2-3 ft | May - June | varies with cvs. | Non-native. Requires good drainage. |
|  | Wild Quinine <i>Parthenium integrifolium</i> | 0 | 0 | 2 | Sand Loam Clay | Low | 3 | 0 | 3-4 ft | 1-2 ft | June - Aug |  | Perfers fertile organic soils. |





"B" Forbs (Wildflowers)

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|--|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---|--|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Smooth Penstemon <i>Penstemon calycosus</i> | 0 | 5 | 0 | Sand Loam | None | 3 | 0 | 1-3 ft | .5-1 ft | June-July |  | Prefers fertile organic soils. Increased soil moisture with more sun exposure. Tolerant of alkaline soils. |
|  | Hairy Penstemon <i>Penstemon hirsutus</i> | 0 | 0 | 5 | Sand Loam Clay | None | 2 | 0 | 1-2 ft | 1-2 ft | June-July |  | Tolerant of alkaline soils. |
|  | Russian Sage <i>Perovksia atriplicifolia</i> | 0 | 0 | 5 | Sand Loam Clay | Low | 1 | 0 | 1.5-3 ft | 2-3 ft | Aug - Sept |  | Non-native. Drought intolerant. |
|  | White Prairie Clover <i>Petalostemum candidum</i> | 0 | 5 | 0 | Sand Loam Clay | Low | 1 | 0 | 1-3 ft | 1-2 ft | June - Aug |  | Nitrogen fixing legume. Slow to mature. Drought tolerant. Tolerates nutrient poor soils. |
|  | Obedient Plant <i>Physotegia virginiana</i> | 0 | 5 | 0 | Sand Loam Clay | | 2 | 0 | 3-4 ft | 1-2 ft | July - Aug |  | Rhizomatous. Moderate vegetative growth in moist soils. |
|  | Jacob's Ladder <i>Polemonium reptans</i> | 0 | 5 | 0 | Sand Loam Clay | | 0 | 3 | 1-1.5 ft | 1-1.5 ft | April - June |  | Prefers well drained, rich soils. |
|  | Solomon's Seal <i>Polygonatum biflorum</i> | 0 | 5 | 0 | Sand Loam Clay | Low | 0 | 3 | 1-3ft | 1-1.5 ft | April - May |  | Rhizomatous. |
|  | Prairie Cinquefoil <i>Potentilla arguta</i> | 0 | 5 | 0 | Sand Loam Clay | Low | 1 | 0 | 2-3 ft | .5-1 ft | July - Aug |  | Drought tolerant. Tolerant of alkaline soils. Soils must be well drained. |


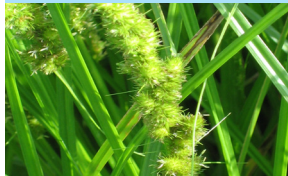



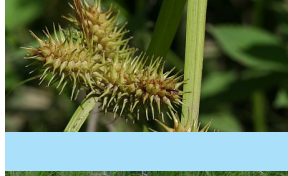

"B" Forbs (Wildflowers)

| | Common Name Latin Name | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|--|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Narrow-Leaf Mountain Mint <i>Pycnanthemum tenuifolium</i> | 0 | 4 | 0 | Sand Loam Clay | Low | 1 | 0 | 2-3 ft | .5-1 ft | July - Aug |  | Rhizomatous. Moderate vegetative growth in moist soils. Drought tolerant. |
|  | Hairy Wild Petunia <i>Ruellia humilis</i> | 0 | 6 | 0 | Sand Loam Clay | | 2 | 0 | 1.5-2 ft | 1.5-2 ft | May - Oct |  | Drought tolerant. |
|  | Meadow Sage <i>Salvia superba</i> | 0 | 3 | 0 | Sand Loam Clay | | 1 | 0 | 1-3 ft | 1-2 ft | June - Aug |  | Non-native. Heat and drought tolerant. |
|  | Autumn Joy Sedum <i>Sedum 'Autumn Joy'</i> | 0 | 3 | 0 | Sand Loam Clay | | 2 | 0 | 1-2 ft | 1-1.5 ft | Aug - Oct |  | Non-native. Drought tolerant. Prefers well drained soil. |
|  | Blue-stemmed Goldenrod <i>Solidago caesia</i> | 0 | 4 | 0 | Sand Loam | None | 0 | 2 | 1-3 ft | .5-1 ft | Sept - Oct |  | Rhizomatous. Slow vegetative growth. |
|  | Late Goldenrod <i>Solidago gigantea</i> | 4 | 0 | 0 | Sand Loam Clay | Low | 2 | 0 | 3-5 ft | 1-2 ft | Sept - Oct |  | Rhizomatous. Moderate vegetative growth. Requires constant soil moisture. |
|  | Early Goldenrod <i>Solidago juncea</i> | 0 | 3 | 0 | Sand Loam Clay | Low | 1 | 0 | 1-3 ft | .5-1 ft | July - Aug |  | Tolerates moist soils that are well drained. |
|  | Ohio Goldenrod <i>Solidago ohioensis</i> | 4 | 0 | 0 | Sand Loam Clay | Low | 1 | 0 | 2-3 ft | .5-1 ft | July - Sept |  | Requires constant soil moisture. Tolerates alkaline soils. |









"B" Forbs (Wildflowers)

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|---|---------------|-----------------|---------------|----------------------|----------------|--------------------------------|--------|--------------|--------------|---|--|-------|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Celandine Poppy <i>Stylophorum diphythum</i> | Wet: 0/5 bars | Moist: 3/5 bars | Dry: 0/5 bars | Loam | None | Sun: 0/2 bars, Shade: 2/2 bars | 1-2 ft | .5-1 ft | April - May |  | Plant goes dormant after the seed drops. | |
|  | Bird's Foot Violet <i>Viola pedata</i> | Wet: 0/5 bars | Moist: 0/5 bars | Dry: 3/5 bars | Sand Loam Clay | | Sun: 1/2 bars, Shade: 0/2 bars | 3-6 ft | 3-6 ft | April - June |  | Crown root with poorly drained, heavy soils. | |







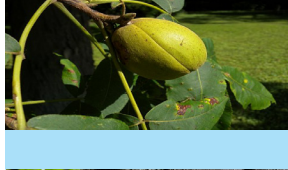

“B” Graminoids

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|--|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|--------------|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | Texture | |
| | | 0 | 1 | 2 | | | 3 | 4 | | | | 5 | |
|  | Woodland Brome <i>Bromus pubescens</i> | 0 | 1 | 2 | Sand Loam | None | 3 | 4 | 3-4 ft | 0.5 ft | June - July | Medium | Bunch type grass. Increase soil moisture with increased sun exposure. |
|  | Yellow Fox Sedge <i>Carex annectans var xanthocarpa</i> | 1 | 2 | 3 | Sand Loam Clay | Medium | 3 | 4 | 1-2 ft | 1-2 ft | May - June | Fine | Bunch type sedge. Can be aggressive with little competition. |
|  | Nodding Sedge <i>Carex Crinita</i> | 1 | 2 | 3 | Sand Loam Clay | None | 3 | 4 | 2-3 ft | 1-2 ft | May - June | Medium | Bunch type sedge. Increase soil moisture with increased sun exposure. |
|  | Asa's Gray Sedge <i>Carex grayi</i> | 1 | 2 | 3 | Sand Loam | Low | 3 | 4 | 1-2 ft | 0.5-1 ft | May - June | Medium | Bunch type sedge. Prefers organic soil. Increase soil moisture with increased sun exposure. |
|  | Hop Sedge <i>Carex lupulina</i> | 1 | 2 | 3 | Loam | Low | 3 | 4 | 2-3 ft | 1-2 ft | May - June | Coarse | Bunch type sedge. Prefers organic soil. Increase soil moisture with increased sun exposure. |
|  | Lurid Sedge <i>Carex lurida</i> | 1 | 2 | 3 | Sand Loam | Low | 3 | 4 | 1-2 ft | 1-2 ft | May - June | Coarse | Bunch type sedge. Prefers organic soil. Increase soil moisture with increased sun exposure. |
|  | Pennsylvania Sedge <i>Carex pennsylvania</i> | 0 | 1 | 2 | Sand Loam | Low | 3 | 4 | 0.5-1 ft | 0.5 ft | April - May | Fine | Rhizomatous sedge. Slow vegetative spread. Prefers organic soil. |






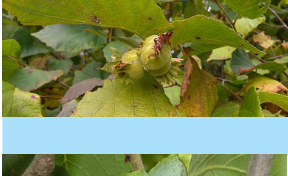


“B” Graminoids

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color Texture | Notes | | | | | | | | | | | | | | | | | |
|--|---|---------------|-------|-----|-----------|----------------|--------------|-------|--------------|-------------|--------------|-----------------------------|-----------|--------|---|---|---|---|----|---|---|---|---|---|----|----------|--------|-------------|--------|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 | 1 | 2 | | | 3 | 4 | | | | | | 5 | 6 | 7 | 8 | 9 | 10 | | | | | | | | | | | |
|  | Straight-Styled Wood Sedge <i>Carex radiata</i> | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Sand Loam | Low | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 0.5-1 ft | 0.5 ft | May - June | Medium | Rhizomatous sedge. Slow vegetative spread. Prefers organic soil. |
|  | Burreed Sedge <i>Carex sparganioides</i> | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Loam | Low | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1-2 ft | 1-2 ft | June - July | Medium | Bunch type sedge. Prefers organic soil. Increase soil moisture with increased sun exposure. |
|  | Narrow-Leaved Cattail Sedge <i>Carex squarrosa</i> | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Sand Loam | Low | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1-2 ft | 1 ft | April - May | Medium | Bunch type sedge. Prefers organic soil. Increase soil moisture with increased sun exposure. |
|  | Tussock Sedge <i>Carex stricta</i> | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Sand Loam | Low | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 2-4 ft | 1-2 ft | May - June | Fine | Rhizomatous sedge. Moderate vegetative spread. Prefers organic soil. |
|  | Northern Sea Oats <i>Chasmanthium latifolium</i> | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Sand Loam | Low | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 2-3 ft | 2 ft | June - July | Coarse | Rhizomatous grass. Moderate vegetative spread. |
|  | Beak Grass <i>Diarrhena americana</i> | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Sand Loam | Low | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1-2 ft | 1-2 ft | April - May | Medium | Rhizomatous grass. Moderate vegetative spread. Tolerates alkaline soils |
|  | Creeping Spike-Rush <i>Eleocharis erythropoda</i> | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Sand Loam | Medium | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1-2 ft | 0.5 ft | April - May | Medium | Rhizomatous rush. Can be aggressive. |
|  | June Grass <i>Koeleria cristata</i> | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Sand | Low | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1-2 ft | 0.5 ft | April - May | Fine | Bunch type grass. Tolerates low nutrient soils. |


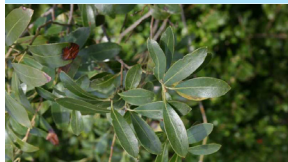

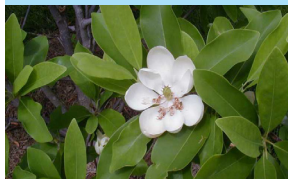
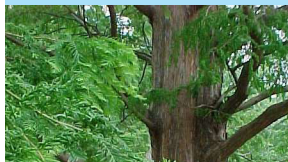
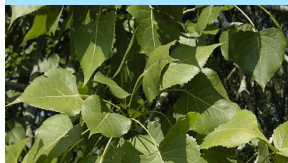
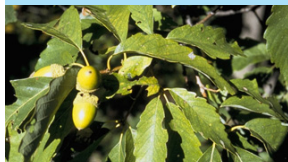

"B" Woody Plants

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|---|---------------|------------|----------|----------------|----------------|--------------|------------|--------------|-------------|--------------|--------------|--|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Silver Maple <i>Acer saccharinum</i> | Wet: 100% | Moist: 0% | Dry: 0% | Sand Loam Clay | None | Sun: 25% | Shade: 75% | 60-80 ft | 30-40 ft | April - May | Red | * Drought tolerant. Grows rapidly which produces weak wood. Prone to storm damage. Creates weed seedlings. |
|  | European Alder <i>Alnus glutinosa</i> | Wet: 100% | Moist: 0% | Dry: 0% | Sand Loam Clay | None | Sun: 25% | Shade: 75% | 60-80 ft | 30-40 ft | April - May | Catkins | Non-native. Ability to use atmospheric nitrogen which allows growth in infertile soil. |
|  | Red Chokeberry <i>Aronia arbutifolia</i> | Wet: 0% | Moist: 50% | Dry: 50% | Sand Loam Clay | Medium | Sun: 50% | Shade: 50% | 6-8 ft | 4-8 ft | May | White | Non-native. |
|  | Black Chokeberry <i>Aronia melanocarpa</i> | Wet: 0% | Moist: 50% | Dry: 50% | Sand Loam Clay | Medium | Sun: 50% | Shade: 50% | 50-100 ft | 35-50 ft | May | White | Non-native. |
|  | Paw Paw <i>Asimina triloba</i> | Wet: 0% | Moist: 50% | Dry: 50% | Sand Loam Clay | None | Sun: 25% | Shade: 75% | 15-20 ft | 30-40 ft | May | Red | Non-native. Spreads by suckers to form thickets. |
|  | Sweetshrub <i>Calycanthus floridus</i> | Wet: 0% | Moist: 50% | Dry: 50% | Sand Loam Clay | None | Sun: 50% | Shade: 50% | 6-10 ft | 6-12 ft | April - May | Red | Non-native. |
|  | Shellbark Hickory <i>Carya laciniosa</i> | Wet: 0% | Moist: 50% | Dry: 50% | Sand Loam Clay | None | Sun: 25% | Shade: 75% | 80-100 ft | 75-85 ft | April - May | Catkins | Difficult to transplant. |
|  | Shagbark Hickory <i>Carya ovata</i> | Wet: 0% | Moist: 50% | Dry: 50% | Sand Loam Clay | None | Sun: 25% | Shade: 75% | 60-80 ft | 40-60 ft | April - May | Catkins | Difficult to transplant. |






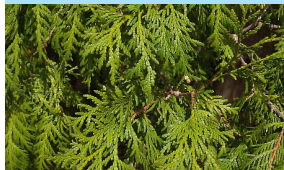
"B" Woody Plants

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|---|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|--------------|---|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | 0 | 1 | 2 | | | 3 | 4 | | | | | |
|  | Northern Catalpa <i>Catalpa speciosa</i> | 0 | 1 | 2 | Sand Loam Clay | | 3 | 4 | 40-70 ft | 35-50 ft | May - June | | Large seed pods create litter problem. |
|  | New Jersey Tea <i>Ceanothus americanus</i> | 0 | 1 | 2 | Sand Loam Clay | | 3 | 4 | 2-4 ft | 1.5-3 ft | June - July | | Tolerates poor soil. |
|  | Flowering Quince <i>Chaenomeles spp.</i> | 0 | 1 | 2 | Sand Loam Clay | None | 3 | 4 | | | April - May | Varies | Non-native. |
|  | White Fringetree <i>Chionanthus virginicus</i> | 0 | 1 | 2 | Sand Loam Clay | | 3 | 4 | 12-20 ft | 12-20 ft | May - June | | Non-native. Prefers reasonably moist soils. |
|  | Summersweet <i>Clethra alnifolia</i> | 0 | 1 | 2 | Sand Loam Clay | Low | 3 | 4 | 4-6 ft | 3-5 ft | June - July | | Non-native. Intolerant of dry soils. |
|  | Hazelnut <i>Corylus americana</i> | 0 | 1 | 2 | Sand Loam Clay | | 3 | 4 | 35-60 ft | 25-35 ft | April - May | | Fruits create litter problem. |
|  | Persimmon <i>Diospyros virginiana</i> | 0 | 1 | 2 | Sand Loam Clay | | 3 | 4 | 35-60 ft | 25-35 ft | April - May | | Fruits create litter problem. |
|  | Common Witch Hazel <i>Hamamelis virginiana</i> | 0 | 1 | 2 | Sand Loam Clay | Low | 3 | 4 | 6-8 ft | 6-8 ft | April - May | | Non-native. Forms thickets |



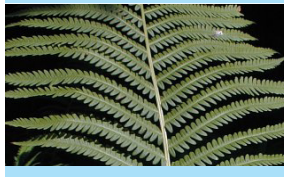



“B” Woody Plants

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|--|---------------|-------|-----|----------------|----------------|--------------|-------|--------------|-------------|--------------|---------------|-------------------------------------|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Smooth Hydrangea <i>Hydrangea arborescens</i> | 0 | 4 | 0 | Sand Loam Clay | Medium | 3 | 0 | 3-5 ft | 4-6 ft | June-Sept | | Spreads by suckers. |
|  | Inkberry <i>Ilex glabra</i> | 0 | 5 | 0 | Sand Loam Clay | Medium | 1 | 0 | 6-8 ft | 6-8 ft | April - May | | Non-native. |
|  | Winterberry <i>Ilex verticillata</i> | 1 | 5 | 0 | Sand Loam Clay | Low | 1 | 0 | 6-8 ft | 6-8 ft | April - May | | Non-native. Forms thickets |
|  | Sweetbay Magnolia <i>Magnolia virginiana</i> | 0 | 5 | 0 | Sand Loam Clay | None | 1 | 0 | 30-35 ft | 30-35 ft | May | | Non-native. Semi-Evergreen foliage. |
|  | Dawn Redwood <i>Metasequoia spp.</i> | 1 | 6 | 0 | Sand Loam Clay | Medium | 2 | 0 | 70-80 ft | 25 ft | April - May | Inconspicuous | Non-native. Deciduous conifer. |
|  | Eastern Cottonwood Tree <i>Populus deltoies</i> | 1 | 6 | 0 | Sand Loam Clay | | 1 | 0 | 50-100 ft | 35-50 ft | April - May | Catkins | Can be invasive. |
|  | Swamp Chestnut Oak <i>Quercus michauxii</i> | 1 | 6 | 0 | Sand Loam Clay | | 1 | 0 | 50-60 ft | 50-60 ft | April - May | Catkins | Tolerates flooding. |
|  | Chinquapin Oak <i>Quercus muehlenbergii</i> | 0 | 5 | 0 | Sand Loam Clay | | 1 | 0 | 30-40 ft | 45-50 ft | April - May | Catkins | Intolerant of acidic soils. |

"B" Woody Plants

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|---|--|--------------------------------|----------------|------|----------------------|----------------|--------------|-------------|---|---|--------------|--------------|-------|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
|  | Willow <i>Salix spp.</i> | Wet: 1/4, Moist: 3/4, Dry: 0/4 | Sand Loam Clay | | Sun: 1/2, Shade: 0/2 | 5-50 ft | 5-50 ft | April - May | Inconspicuous | Weak limbs and twig litter create problems. | | | |
|  | Meadowsweet <i>Spiraea alba</i> | Wet: 0/4, Moist: 3/4, Dry: 0/4 | Sand Loam Clay | Low | Sun: 1/2, Shade: 0/2 | 3-4 ft | 3-6 ft | June - Sept |  | Prefer soils containing abundant organic matter. | | | |
|  | Common Snowberry <i>Symphoricarpos albus</i> | Wet: 0/4, Moist: 0/4, Dry: 2/4 | Sand Loam Clay | | Sun: 2/2, Shade: 0/2 | 3-5 ft | 3-6 ft | June - July |  | Non-Native. Spreads by suckers to form thickets. Ornamental white fruits persist into September and November. | | | |
|  | American Arborvitae <i>Thuja occidentalis and cvs</i> | Wet: 0/4, Moist: 3/4, Dry: 0/4 | Sand Loam Clay | None | Sun: 2/2, Shade: 0/2 | 10-30 ft | 4-15 ft | April - May | Inconspicuous | Evergreen. | | | |

“B” Ferns

| | Common Name <i>Latin Name</i> | Soil Moisture | | | Soil Type | Salt Tolerance | Sun Exposure | | Plant Height | Plant Width | Bloom Period | Flower Color | Notes |
|--|--|---------------|-------|-----|-----------|----------------|--------------|----------|--------------|-------------|--------------|---|-------|
| | | Wet | Moist | Dry | | | Sun | Shade | | | | | |
| | | 0 | 1 | 2 | | | 0 | 1 | | | | | |
|  | Maidenhair Fern <i>Adiantum pedatum</i> | 0 | 1 | 2 | Loam | 0 | 1 | 1-1.5 ft | 1-1.5 ft | N/A | N/A | ** Prefers moist, but not wet soils. Will not tolerate dry soils. | |
|  | Lady Fern <i>Athyrium filix-femina</i> | 0 | 1 | 2 | Loam | 0 | 1 | 1.5-3 ft | 1.5-3 ft | N/A | N/A | ** Prefers high humidity, protection from the wind, and a loose loamy soil that is slightly acidic, moist and well drained. | |
|  | Ostrich Fern <i>Matteuccia struthiopteris</i> | 0 | 1 | 2 | Loam | 0 | 1 | 3-5 ft | 3-5 ft | N/A | N/A | ** Requires consistently moist soils. Intolerant of drought and hot climates. | |
|  | Sensitive Fern <i>Onochlea sensibilis</i> | 0 | 1 | 2 | Loam | 0 | 1 | 1-2 ft | 1-2 ft | N/A | N/A | ** Requires consistently moist soils. | |
|  | Cinnamon Fern <i>Osmunda cinnamomea</i> | 0 | 1 | 2 | Loam | 0 | 1 | 3-4 ft | 3-6 ft | N/A | N/A | ** Prefers high humidity, protection from the wind, and a loose loamy soil that is slightly acidic, consistently moist. | |
|  | Christmas Fern <i>Polystichum aristichoides</i> | 0 | 1 | 2 | Loam | 0 | 1 | 1.5-3 ft | 1-2 ft | N/A | N/A | ** Prefers cool, moist but well drained soils. | |