

# RECOMMENDED PLANT LISTS FOR BEST MANAGEMENT PRACTICES

This appendix contains recommended native and non-native (when appropriate) plant species for the Best Management Practices detailed throughout the manual. The recommended list contains species that are considered suitable to conditions in Indiana. Species have been recommended based on hardiness, aesthetics, functionality, and commercial availability. It is certain that species exist outside the confines of this list that will perform in a comparable way to those listed; however, commercial availability is often a limiting factor in obtaining material for native plantings. Over time, and in certain locales, additional species will become available to supplement those listed below.

An array of planting zones is provided based on normal water levels (**Figure 1**). Using these zones will provide the best chances for long-term success of native planting in the context of LID/GI. While plants may naturally occur outside of the given ranges, these ranges

are intended to be guidelines for plant installation. Whenever possible and practical in standing water conditions, native plants should be installed in live plant form (rather than seed). Seed or a combination of seed and live plants may be used in upland situations.

Recommendations are given for height, bloom color, bloom time, sun requirements, and salt tolerance. Please note that these are recommendations based on a range of situations, and a specific plant or population may vary from site-to-site. For sun requirements, F = full sun required, P = partial sun tolerated, and S = shade tolerated. Salt tolerance is classified as Yes (Y) or No (N). This was determined through literature reviews and anecdotal evidence. If there is no information confirming tolerance, a “No” was listed.

|                                | Zone A — 2”-4” Below Water Level | Zone B — 0”-2” Below Water Level | Zone C — 0”-2” Above Water Level | Zone D — 2”-4” Above Water Level | Zone E — 4”-18” Above Water Level | Zone F — 18”+ Above Water Level | Zone G — Planter Boxes | Zone H — Vegetated Roofs |
|--------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|---------------------------------|------------------------|--------------------------|
| Rain gardens/Bioretenion       | ✿                                | ✿                                | ✿                                | ✿                                | ✿                                 | ✿                               |                        |                          |
| Vegetated Filter Strips        |                                  |                                  | ✿                                | ✿                                | ✿                                 | ✿                               |                        |                          |
| Vegetated Swales               |                                  | ✿                                | ✿                                | ✿                                |                                   |                                 |                        |                          |
| Infiltration Basin             |                                  | ✿                                | ✿                                |                                  |                                   |                                 |                        |                          |
| Subsurface Infiltration Basins |                                  |                                  |                                  | ✿                                | ✿                                 | ✿                               |                        |                          |
| Infiltration Trenches          |                                  |                                  |                                  | ✿                                | ✿                                 | ✿                               |                        |                          |
| Infiltration Berns             | ✿                                | ✿                                | ✿                                | ✿                                | ✿                                 | ✿                               |                        |                          |
| Planter Boxes                  |                                  |                                  |                                  |                                  |                                   |                                 | ✿                      |                          |
| Vegetated Roofs                |                                  |                                  |                                  |                                  |                                   |                                 |                        | ✿                        |
| Constructed Wetlands           | ✿                                | ✿                                | ✿                                | ✿                                |                                   |                                 |                        |                          |
| Wet Ponds                      | ✿                                | ✿                                | ✿                                |                                  |                                   |                                 |                        |                          |
| Dry Extended Detention Basins  |                                  |                                  | ✿                                | ✿                                | ✿                                 | ✿                               |                        |                          |
| Riparian Corridor Restoration  |                                  |                                  | ✿                                | ✿                                |                                   |                                 |                        |                          |
| Native Revegetation            | ✿                                | ✿                                | ✿                                | ✿                                | ✿                                 | ✿                               | ✿                      | ✿                        |

Figure 1 Planting Zone/BMP Matrix

## Plant Installation

### Native Seeding

Seasonal consideration: October 1-June 15 (note: seeds should not be planted on frozen ground).

Native seeding is generally recommended for areas above the water line or 1-2" below the water line. Live plant material should be used to establish vegetation at deeper water levels.

### Broadcast seeding

Broadcast seeding is preferred over drill seeding on graded, bare soil sites. Apply the seed uniformly over the surface using a combination seeder/cultipacker unit such as a Brillion or Truax Trillion seeder. The Trillion seeder is preferred as it is designed to handle native seeds.

A cone seeder or other similar broadcasting equipment may also be used if the seed mix does not contain fluffy seeds in amounts sufficient to prevent free flowing without plugging. Seed should then be pressed into the surface using a cultipacker or roller.

### Drill seeding

A rangeland-type no-till drill designed to plant native grasses and forbs may be used in bare soils although this equipment is specifically designed to plant through existing vegetation which is killed with an herbicide. Cultipacking or rolling before seeding may be required to prevent seed placement depths exceeding 0.25 inch, but cultipacking or rolling after seeding is not required.

All seeding equipment, whether broadcast or drill, should be calibrated to deliver the seed at the rates and proportions specified in the plans. Equipment should be operated to ensure complete coverage of the entire area to be seeded, and seed must be placed no deeper than 0.25 inch in the soil. No fertilizers or soil conditioners will be required or allowed.

### Native Planting

Seasonal considerations: May 1-July 1

Plant plugs should be installed in holes drilled with an auger the same diameter and depth as the plug within +0.75 inch/- 0.25 inch. In wetland plantings where soil is soft and moist enough, a dibble bar or trowel may also be used. The planting layout should consider the requirements of the individual species regarding soil type, moisture, slope, shading, and other factors for the particular plant species.

Planting densities vary according to budget and project goals and can range from three-to-five foot spacing for plug supplements of seeded areas to six inches to two foot spacing for high visibility landscaping projects with large budgets. Groups of five-to-seven plugs of the same species planted approximately one foot apart is usually preferable to planting all species intermixed randomly across the site at a uniform density.

In wetland or shoreline areas with potential for high wave action or wildlife predation that may dislodge newly planted plugs, plugs should be secured with 6-inch or 8-inch U-shaped wire erosion control blanket staples. Staple length is determined by the density of the planting substrate; softer substrates require longer length to hold plugs adequately.

In areas where potential for wildlife predation exists, such as retention basins or other planting areas adjacent to open water, waterfowl barriers should be installed around a minimum of 50 percent of the plugs. All plugs not protected by barriers should be stapled into the substrate as described above. Barriers may consist of plastic or wire mesh enclosures supported with wooden stakes, adequately constructed to inhibit access by waterfowl for one growing season. Enclosures should extend at least two feet above the plant tops. Methodology should be approved by the project designer with input from a restoration ecologist if necessary. Barriers may be removed after one growing season.

### Tree and Shrub Planting

See "[Planting & Transplanting Landscape Trees & Shrubs](#)" from the Purdue University Cooperative Extension Service – Department of Horticulture, Publication HO-100-W.

## Maintenance and Management

Maintaining vegetated BMPs is typically most important during the first few years following installation. Supplemental irrigation may be needed to help establish plants in drought conditions. Plants may need to be replaced due to predation or other unseen factors. Most commonly, management includes removing invasive species via mowing, hand-pulling, or spot herbicide applications. In larger areas, broadcast herbicide applications may be appropriate. Over time in upland areas, controlled burning may be used as a way to invigorate the plantings and control certain invasive species. If not feasible for social or cultural reasons, an annual or biennial mowing may be used instead of fire.

Long-term management may be necessary, but is typically significantly less intensive. The site should be periodically checked for invasive species infestations. Any prairie or open area may need occasional (every three to five years) burning or mowing to remove woody vegetation that may encroach.

## Zone A

Planting Zone = Two-to-four inches below water level

These species require continual inundation within the given water depths in order to thrive. Although slight, short-term variances may be tolerated ( $\pm$  five inches for a period of 48 hours or less), water levels must remain in this range for a majority of the growing season for maximum plant growth and survival.

| Botanical Name                   | Common Name          | Height | Color  | Bloom Time | Sun   | Salt Tolerant |
|----------------------------------|----------------------|--------|--------|------------|-------|---------------|
| <b>Woody Species:</b>            |                      |        |        |            |       |               |
| <i>Cephalanthus occidentalis</i> | Buttonbush           | 15'    | White  | Jun-Aug    | F/P/S | N             |
| <b>Grasses/Sedges/Rushes:</b>    |                      |        |        |            |       |               |
| <i>Acorus calamus</i>            | Sweet flag           | 1'-4'  | Green  | May-Jun    | F/P   | N             |
| <i>Scirpus acutus</i>            | Hard-stemmed bulrush | 4'-6'  | Brown  | Apr-Aug    | F     | Y             |
| <i>Scirpus validus</i>           | Great bulrush        | 4'-8'  | Brown  | May-Aug    | F     | Y             |
| <i>Sparganium americanum</i>     | American bur reed    | 2'-5'  | Green  | Jun-Aug    | F/P   | N             |
| <i>Sparganium eurycarpum</i>     | Common bur reed      | 2'-6'  | Green  | May-Aug    | F     | N             |
| <b>Forbs:</b>                    |                      |        |        |            |       |               |
| <i>Asclepias incarnata</i>       | Swamp milkweed       | 3'-5'  | Pink   | Jun-Sep    | F/P   | N             |
| <i>Decodon verticillatus</i>     | Swamp loosestrife    | 2'-4'  | Purple | Jul-Sep    | F/P   | N             |
| <i>Iris virginica</i>            | Blue flag iris       | 2'-3'  | Purple | May-Jul    | F/P/S | N             |
| <i>Peltandra virginica</i>       | Arrow arum           | 2'-5'  | Green  | Jun-Jul    | F/P/S | N             |
| <i>Pontedaria cordata</i>        | Pickerelweed         | 1'-3'  | Violet | Jun-Sep    | F/P   | N             |
| <i>Sagittaria latifolia</i>      | Arrowhead            | 1'-4'  | White  | Jun-Sep    | F/P   | N             |

Representative Zone A Species

*Buttonbush*



*Arrowhead*



*Blue Flag Iris*



*Pickerel Weed*



*Swamp Milkweed*

Source: JFNew

## Zone B

Planting Zone = Zero-to-two inches below water level

These species tolerate fluctuating water levels within this range. Although slight, short-term variances may be tolerated ( $\pm$  five inches for a period of 48 hours or less), water levels must remain in this range for most of the growing season for maximum plant growth and survival.

| Botanical Name                   | Common Name          | Height | Color  | Bloom Time | Sun   | Salt Tolerant |
|----------------------------------|----------------------|--------|--------|------------|-------|---------------|
| <i>Woody Species:</i>            |                      |        |        |            |       |               |
| <i>Cephalanthus occidentalis</i> | Buttonbush           | 15'    | White  | Jun-Aug    | F/P/S | N             |
| <i>Grasses/Sedges/Rushes:</i>    |                      |        |        |            |       |               |
| <i>Acorus calamus</i>            | Sweet flag           | 1'-4'  | Green  | May-Jun    | F/P   | N             |
| <i>Carex comosa</i>              | Bristly sedge        | 2'-3'  | Green  | May-Jun    | F     | N             |
| <i>Carex lacustris</i>           | Lake sedge           | 2'-4'  | Brown  | May-Jun    | F/P/S | N             |
| <i>Carex stricta</i>             | Tussock sedge        | 2'-3'  | Brown  | Apr-Jun    | F/P   | N             |
| <i>Eleocharis acicularis</i>     | Needle spike rush    | 6"     | Green  | May-Oct    | F     | N             |
| <i>Eleocharis obtusa</i>         | Blunt spike rush     | 1'-2'  | Green  | May-Sep    | F/P   | N             |
| <i>Glyceria striata</i>          | Fowl manna grass     | 1'-5'  | Green  | May-Jun    | F/P/S | N             |
| <i>Juncus effusus</i>            | Soft rush            | 1'-4'  | Brown  | July       | F/P   | N             |
| <i>Scirpus acutus</i>            | Hard-stemmed bulrush | 4'-6'  | Brown  | Apr-Aug    | F     | Y             |
| <i>Scirpus cyperinus</i>         | Wool grass           | 3'-5'  | Tan    | Jun-Sep    | F     | Y             |
| <i>Scirpus pendulus</i>          | Red bulrush          | 2'-4'  | Brown  | May-Jun    | F     | N             |
| <i>Scirpus validus</i>           | Great bulrush        | 4'-8'  | Brown  | May-Aug    | F     | Y             |
| <i>Sparganium americanum</i>     | American bur reed    | 2'-5'  | Green  | Jun-Aug    | F/P   | N             |
| <i>Sparganium eurycarpum</i>     | Common bur reed      | 2'-6'  | Green  | May-Aug    | F     | N             |
| <i>Forbs:</i>                    |                      |        |        |            |       |               |
| <i>Alisma plantago-aquatica</i>  | Water plantain       | 2'-4'  | White  | Jul-Sep    | F     | N             |
| <i>Asclepias incarnata</i>       | Swamp milkweed       | 3'-5'  | Pink   | Jun-Sep    | F/P   | N             |
| <i>Decodon verticillatus</i>     | Swamp loosestrife    | 2'-4'  | Purple | Jul-Sep    | F/P   | N             |
| <i>Iris virginica</i>            | Blue flag iris       | 2'-3'  | Purple | May-Jul    | F/P/S | N             |
| <i>Peltandra virginica</i>       | Arrow arum           | 2'-5'  | Green  | Jun-Jul    | F/P/S | N             |
| <i>Pontedaria cordata</i>        | Pickerelweed         | 1'-3'  | Violet | Jun-Sep    | F/P   | N             |
| <i>Sagittaria latifolia</i>      | Arrowhead            | 1'-4'  | White  | Jun-Sep    | F/P   | N             |
| <i>Saururus cernuus</i>          | Lizard's tail        | 2'-4'  | White  | Jun-Aug    | P/S   | N             |

Representative Zone B Species

*Blue Flag Iris*



*Arrowhead*



*Bristly Sedge*



*Pickerel Weed*



*Swamp Milkweed*

Source: JFNew

## Zone C

Planting Zone = Zero-to-two inches above water level

These plants are tolerant of fluctuating water levels within this range. They will also tolerate short periods of inundation, not to exceed 48 hours in most situations, making them appropriate for BMP settings.

| Botanical Name                   | Common Name          | Height | Color          | Bloom Time | Sun   | Salt Tolerant |
|----------------------------------|----------------------|--------|----------------|------------|-------|---------------|
| <b>Woody Species:</b>            |                      |        |                |            |       |               |
| <i>Acer rubrum</i>               | Red maple            | 90'    | Green/ red     | Mar-May    | F/P/S | N             |
| <i>Alnus rugosa</i>              | Speckled alder       | 25'    | Brown          | Mar-May    | F/P   | N             |
| <i>Amelanchier arborea</i>       | Downy serviceberry   | 40'    | White          | April      | F/P/S | N             |
| <i>Aronia prunifolia</i>         | Purple chokeberry    | 10'    | White          | Apr-Jul    | F/P   | N             |
| <i>Betula alleghaniensis</i>     | Yellow birch         | 100'   | Purple/ Yellow | Apr-May    | P/S   | N             |
| <i>Betula papyrifera</i>         | Paper birch          | 70'    | Brown          | Apr-May    | F/P   | N             |
| <i>Cephalanthus occidentalis</i> | Buttonbush           | 15'    | White          | Jun/Aug    | F/P/S | N             |
| <i>Cornus amomum</i>             | Silky dogwood        | 10'    | White          | May-Jul    | F/P   | N             |
| <i>Cornus sericea</i>            | Red-osier dogwood    | 10'    | White          | May-Sep    | F/P   | N             |
| <i>Ilex verticillata</i>         | Winterberry          | 10'    | White          | June       | F/P/S | Y             |
| <i>Larix laricina</i>            | American larch       | 75'    | Brown          | May        | F/P   | N             |
| <i>Lindera benzoin</i>           | Spicebush            | 15'    | Yellow         | Apr-May    | P/S   | N             |
| <i>Morus rubra</i>               | Red mulberry         | 50'    | Green          | May-Jun    | F/P/S | N             |
| <i>Nyssa sylvatica</i>           | Black gum            | 100'   | Green          | May-Jul    | F/P/S | Y             |
| <i>Physocarpus opulifolius</i>   | Ninebark             | 10'    | White          | May-Jun    | F/P   | N             |
| <i>Picea mariana</i>             | Black spruce         | 60'    | Brown          | May-Jun    | F/P/S | N             |
| <i>Quercus bicolor</i>           | Swamp white oak      | 70'    | Green/ yellow  | May        | F/P/S | Y             |
| <i>Quercus palustris</i>         | Pin oak              | 90'    | Green/ yellow  | Apr-May    | F/P/S | Y             |
| <i>Ribes americanum</i>          | Wild black currant   | 5'     | Yellow         | Apr-Jun    | F/P/S | N             |
| <i>Rosa palustris</i>            | Swamp rose           | 2'-7'  | Pink           | Jun-Aug    | F/P/S | N             |
| <i>Thuja occidentalis</i>        | White cedar          | 50'    | Brown          | Apr-May    | F/P/S | N             |
| <i>Ulmus americana</i>           | American elm         | 100'   | Brown          | Mar-Apr    | F/P/S | N             |
| <i>Ulmus rubra</i>               | Slippery elm         | 80'    | Green          | Mar-Apr    | F/P/S | N             |
| <i>Viburnum lentago</i>          | Nannyberry           | 20'    | White          | Apr-Jun    | P/S   | Y             |
| <b>Grasses/Sedges/Rushes:</b>    |                      |        |                |            |       |               |
| <i>Calamagrostis canadensis</i>  | Blue joint grass     | 2'-4'  | Brown          | June       | F/P   | N             |
| <i>Carex comosa</i>              | Bristly sedge        | 2'-3'  | Green          | May-June   | F/P   | N             |
| <i>Carex crinita</i>             | Fringed sedge        | 2'-5'  | Green          | May        | F/P/S | N             |
| <i>Carex hystericina</i>         | Porcupine sedge      | 2'-3'  | Green          | May-June   | F/P/S | N             |
| <i>Carex lupulina</i>            | Common hop sedge     | 2'-3'  | Green/ Brown   | May-June   | F/P/S | N             |
| <i>Carex muskingumensis</i>      | Palm sedge           | 1'-2'  | Brown          | May-June   | S     | N             |
| <i>Carex stipata</i>             | Common fox sedge     | 1'-3'  | Brown          | Apr-May    | F/P/S | N             |
| <i>Carex stricta</i>             | Tussock sedge        | 2'-3'  | Brown          | Apr-Jun    | F/P   | N             |
| <i>Carex vulpinoidea</i>         | Brown fox sedge      | 2'-3'  | Brown          | May-Jun    | F/P   | N             |
| <i>Cinna arundinacea</i>         | Common wood reed     | 3'-4'  | Green          | Aug-Sep    | P/S   | N             |
| <i>Eleocharis acicularis</i>     | Needle spike rush    | 6"     | Green          | May-Oct    | F     | N             |
| <i>Eleocharis obtusa</i>         | Blunt spike rush     | 1'-2'  | Green          | May-Sep    | F/P   | N             |
| <i>Glyceria striata</i>          | Fowl manna grass     | 1'-5'  | Green          | May-Jun    | F/P/S | N             |
| <i>Juncus effusus</i>            | Soft rush            | 1'-4'  | Brown          | July       | F/P   | N             |
| <i>Juncus tenuis</i>             | Path rush            | 6"-2'  | Brown          | June       | F/P/S | N             |
| <i>Juncus torreyi</i>            | Torrey's rush        | 1'-2'  | Brown          | Jun-Sep    | F     | Y             |
| <i>Scirpus acutus</i>            | Hard-stemmed bulrush | 4'-6'  | Brown          | Apr-Aug    | F     | Y             |
| <i>Scirpus atrovirens</i>        | Dark green rush      | 3'-5'  | Brown          | Jun-Aug    | F     | N             |
| <i>Scirpus cyperinus</i>         | Wool grass           | 3'-5'  | Tan            | Jun-Sep    | F     | Y             |
| <i>Scirpus pendulus</i>          | Red bulrush          | 2'-4'  | Brown          | May-Jun    | F     | N             |
| <i>Scirpus validus</i>           | Great bulrush        | 4'-8'  | Brown          | May-Aug    | F     | Y             |



| Botanical Name                    | Common Name            | Height | Color      | Bloom Time | Sun   | Salt Tolerant |
|-----------------------------------|------------------------|--------|------------|------------|-------|---------------|
| <b>Forbs:</b>                     |                        |        |            |            |       |               |
| <i>Alisma plantago-aquatica</i>   | Water plantain         | 2'-4'  | White      | Jul-Sep    | F     | N             |
| <i>Anemone canadensis</i>         | Canada anemone         | 1'-2'  | White      | May-Sep    | F/P   | N             |
| <i>Angelica atropurpurea</i>      | Great angelica         | 6'-9'  | White      | May-Jun    | F/P   | N             |
| <i>Asclepias incarnata</i>        | Swamp milkweed         | 3'-5'  | Pink       | Jun-Sep    | F/P   | N             |
| <i>Aster novae-angliae</i>        | New England aster      | 3'-6'  | Violet     | Jul-Oct    | F/P   | N             |
| <i>Aster puniceus</i>             | Swamp aster            | 3'-6'  | Lav/ White | Aug-Oct    | F     | Y             |
| <i>Aster umbellatus</i>           | Flat-topped aster      | 1'-4'  | White      | Jul-Oct    | F/P   | N             |
| <i>Cassia hebecarpa</i>           | Wild senna             | 3'-5'  | Yellow     | Jul-Aug    | F/P   | N             |
| <i>Chelone glabra</i>             | Turtlehead             | 2'-4'  | Cream      | Aug-Sep    | F/P/S | N             |
| <i>Eupatorium maculatum</i>       | Spotted Joe-pye weed   | 4'-7'  | Pink       | Jun-Oct    | F/P   | N             |
| <i>Eupatorium perfoliatum</i>     | Boneset                | 3'-5'  | White      | Jul-Oct    | F/P   | Y             |
| <i>Euthamia graminifolia</i>      | Grass-leaved goldenrod | 1'-4'  | Yellow     | Jul-Sep    | F/P   | N             |
| <i>Gentiana andrewsii</i>         | Bottle gentian         | 1'-3'  | Blue       | Aug-Oct    | F/P   | N             |
| <i>Helenium autumnale</i>         | Sneezeweed             | 3'-5'  | Yellow     | Jul-Nov    | F/P   | Y             |
| <i>Helianthus giganteus</i>       | Tall sunflower         | 5'-12' | Yellow     | Jul-Sep    | F/P   | N             |
| <i>Iris virginica</i>             | Blue flag iris         | 2'-3'  | Purple     | May-Jul    | F/P/S | N             |
| <i>Liatris spicata</i>            | Marsh blazing star     | 3'-5'  | Pink       | Jul-Sep    | F/P   | N             |
| <i>Lilium michiganense</i>        | Michigan lily          | 3'-8'  | Orange     | Jul-Aug    | P/S   | N             |
| <i>Lobelia cardinalis</i>         | Cardinal flower        | 2'-5'  | Red        | Jul-Oct    | F/P/S | N             |
| <i>Lobelia siphilitica</i>        | Great blue lobelia     | 1'-4'  | Blue       | Jul-Oct    | F/P/S | N             |
| <i>Lobelia spicata</i>            | Pale spiked lobelia    | 1'-3'  | Lavender   | May-Aug    | F/P   | N             |
| <i>Mimulus ringens</i>            | Monkeyflower           | 2'-4'  | Lavender   | Jun-Sep    | F/P   | N             |
| <i>Physostegia virginiana</i>     | Obedient plant         | 2'-5'  | Pink       | Aug-Oct    | F     | Y             |
| <i>Pycnanthemum virginianum</i>   | Mountain mint          | 1'-3'  | White      | Jun-Oct    | F/P   | N             |
| <i>Rudbeckia laciniata</i>        | Cutleaf coneflower     | 3'-10' | Yellow     | Jul-Nov    | F/P/S | N             |
| <i>Sagittaria latifolia</i>       | Arrowhead              | 1'-4'  | White      | Jun-Sep    | F/P   | N             |
| <i>Saururus cernuus</i>           | Lizard's tail          | 2'-4'  | White      | Jun-Aug    | P/S   | N             |
| <i>Sisyrinchium angustifolium</i> | Stout blue-eyed grass  | 1'     | Blue       | May-Aug    | F/P   | N             |
| <i>Solidago ohioensis</i>         | Ohio goldenrod         | 2'-3'  | Yellow     | Jul-Oct    | F/P   | N             |
| <i>Solidago patula</i>            | Swamp goldenrod        | 3'-6'  | Yellow     | Aug-Oct    | F/P/S | N             |
| <i>Solidago riddellii</i>         | Riddell's goldenrod    | 2'-5'  | Yellow     | Sep-Nov    | F     | N             |
| <i>Spiraea alba</i>               | Meadowsweet            | 3'-6'  | White      | June-Sep   | F/P   | Y             |
| <i>Spiraea tomentosa</i>          | Steeplebush            | 2'-5'  | Pink       | Jul-Sep    | F/P   | Y             |
| <i>Thalictrum dasycarpum</i>      | Purple meadow-rue      | 3'-6'  | Cream      | May-Jul    | F/P   | N             |
| <i>Verbena hastata</i>            | Blue vervain           | 3'-6'  | Violet     | Jun-Sep    | F     | N             |
| <i>Vernonia missurica</i>         | Missouri ironweed      | 3'-5'  | Purple     | Jul-Sep    | F     | N             |
| <i>Zizia aurea</i>                | Golden Alexanders      | 1'-3'  | Yellow     | Apr-Jun    | F/P/S | Y             |

Representative Zone C Species



*Cardinal Flower*



*Swamp Milkweed*



*Blue-Eyed Grass*



*Path Rush*



*Joe-Pye Weed*



*Obedient Plant*



*Red-Osier Dogwood*



*Monkey Flower*

Source: JFNew

## Zone D

Planting Zone = Two-to-four inches above water level

These plants tolerate fluctuating water levels within this range. They will also tolerate short periods of inundation, not to exceed 48 hours in most situations, making them appropriate for BMP settings.

| Botanical Name                  | Common Name        | Height | Color          | Bloom Time | Sun   | Salt Tolerant |
|---------------------------------|--------------------|--------|----------------|------------|-------|---------------|
| <b>Woody Species:</b>           |                    |        |                |            |       |               |
| <i>Acer rubrum</i>              | Red maple          | 90'    | Green/ red     | Mar-May    | F/P/S | N             |
| <i>Acer saccharinum</i>         | Silver Maple       | 100'   | Yellow         | Mar-Apr    | F/P   | N             |
| <i>Amelanchier arborea</i>      | Downy serviceberry | 40'    | White          | April      | F/P/S | N             |
| <i>Aronia prunifolia</i>        | Purple chokeberry  | 10'    | White          | Apr-Jul    | F/P   | N             |
| <i>Betula alleghaniensis</i>    | Yellow birch       | 100'   | Purple/ Yellow | Apr-May    | P/S   | N             |
| <i>Betula papyrifera</i>        | Paper birch        | 70'    | Brown          | Apr-May    | F/P   | N             |
| <i>Celtis occidentalis</i>      | Hackberry          | 60'    | Green          | May        | F/P/S | N             |
| <i>Cercis canadensis</i>        | Redbud             | 25'    | Red            | Apr-May    | F/P/S | N             |
| <i>Cornus amomum</i>            | Silky dogwood      | 10'    | White          | May-Jul    | F/P   | N             |
| <i>Cornus sericea</i>           | Red-osier dogwood  | 10'    | White          | May-Sep    | F/P   | N             |
| <i>Corylus americana</i>        | American hazelnut  | 10'    | Yellow         | Apr-May    | F/P   | N             |
| <i>Ilex verticillata</i>        | Winterberry        | 10'    | White          | June       | F/P/S | Y             |
| <i>Juglans nigra</i>            | Black walnut       | 90'    | Green          | May        | F/P   | N             |
| <i>Juniperus virginiana</i>     | Red-cedar          | 50'    | Brown          | Apr-May    | F/P   | N             |
| <i>Larix laricina</i>           | American larch     | 75'    | Brown          | May        | F/P   | N             |
| <i>Lindera benzoin</i>          | Spicebush          | 15'    | Yellow         | Apr-May    | P/S   | N             |
| <i>Liriodendron tulipifera</i>  | Tulip tree         | 110'   | Green          | May-Jun    | F/P   | N             |
| <i>Morus rubra</i>              | Red mulberry       | 50'    | Green          | May-Jun    | F/P/S | N             |
| <i>Nyssa sylvatica</i>          | Black gum          | 100'   | Green          | May-Jul    | F/P/S | Y             |
| <i>Physocarpus opulifolius</i>  | Ninebark           | 10'    | White          | May-Jun    | F/P   | N             |
| <i>Picea mariana</i>            | Black spruce       | 60'    | Brown          | May-Jun    | F/P/S | N             |
| <i>Platanus occidentalis</i>    | Sycamore           | 100'   | Green          | May        | F/P   | N             |
| <i>Quercus bicolor</i>          | Swamp white oak    | 70'    | Green/ yellow  | May        | F/P/S | N             |
| <i>Quercus macrocarpa</i>       | Bur oak            | 85'    | Yellow         | May-Jun    | F/P/S | N             |
| <i>Quercus palustris</i>        | Pin oak            | 90'    | Green/ yellow  | Apr-May    | F/P/S | Y             |
| <i>Ribes americanum</i>         | Wild black currant | 5'     | Yellow         | Apr-Jun    | F/P/S | N             |
| <i>Rosa carolina</i>            | Pasture rose       | 3'     | Pink           | Jun-Sep    | F/P   | N             |
| <i>Rosa palustris</i>           | Swamp rose         | 2'-7'  | Pink           | Jun-Aug    | F/P/S | N             |
| <i>Thuja occidentalis</i>       | White cedar        | 50'    | Brown          | Apr-May    | F/P/S | N             |
| <i>Tilia americana</i>          | Basswood           | 100'   | White          | Jun-Jul    | F/P/S | N             |
| <i>Tsuga canadensis</i>         | Hemlock            | 100'   | Brown          | Apr-May    | F/P/S | N             |
| <i>Ulmus americana</i>          | American elm       | 100'   | Brown          | Mar-Apr    | F/P/S | N             |
| <i>Ulmus rubra</i>              | Slippery elm       | 80'    | Green          | Mar-Apr    | F/P/S | N             |
| <i>Viburnum dentatum</i>        | Arrowwood          | 10'    | White          | May-Jun    | F/P/S | N             |
| <i>Viburnum lentago</i>         | Nannyberry         | 20'    | White          | Apr-Jun    | P/S   | Y             |
| <i>Viburnum prunifolium</i>     | Black haw          | 10'    | White          | Apr-May    | F/P   | N             |
| <i>Viburnum trilobum</i>        | Cranberry Viburnum | 10'    | White          | Apr-May    | F/P/S | N             |
| <b>Grasses/Sedges/Rushes:</b>   |                    |        |                |            |       |               |
| <i>Andropogon gerardii</i>      | Big bluestem       | 4'-8'  | Purple         | Jul-Sep    | F     | N             |
| <i>Calamagrostis canadensis</i> | Blue joint grass   | 2'-4'  | Brown          | June       | F/P   | N             |
| <i>Carex comosa</i>             | Bristly sedge      | 2'-3'  | Green          | May-June   | F/P   | N             |
| <i>Carex crinita</i>            | Fringed sedge      | 2'-5'  | Green          | May        | F/P/S | N             |
| <i>Carex hystericina</i>        | Porcupine sedge    | 2'-3'  | Green          | May-June   | F/P/S | N             |
| <i>Carex lupulina</i>           | Common hop sedge   | 2'-3'  | Green/ Brown   | May-June   | F/P/S | N             |
| <i>Carex muskingumensis</i>     | Palm sedge         | 1'-2'  | Brown          | May-June   | S     | N             |
| <i>Carex stipata</i>            | Common fox sedge   | 1'-3'  | Brown          | Apr-May    | F/P/S | N             |
| <i>Carex stricta</i>            | Tussock sedge      | 2'-3'  | Brown          | Apr-Jun    | F/P   | N             |
| <i>Carex vulpinoidea</i>        | Brown fox sedge    | 2'-3'  | Brown          | May-Jun    | F/P   | N             |
| <i>Cinna arundinacea</i>        | Common wood reed   | 3'-4'  | Green          | Aug-Sep    | P/S   | N             |
| <i>Elymus canadensis</i>        | Canada wild rye    | 3'-6'  | Green          | Jun-Sep    | F/P   | N             |

| Botanical Name                  | Common Name            | Height | Color         | Bloom Time | Sun   | Salt Tolerant |
|---------------------------------|------------------------|--------|---------------|------------|-------|---------------|
| <i>Glyceria striata</i>         | Fowl manna grass       | 1'-5'  | Green         | May-Jun    | F/P/S | N             |
| <i>Juncus tenuis</i>            | Path rush              | 6"-2'  | Brown         | June       | F/P/S | N             |
| <i>Juncus torreyi</i>           | Torrey's rush          | 1'-2'  | Brown         | Jun-Sep    | F     | Y             |
| <i>Panicum virgatum</i>         | Switch grass           | 3'-5'  | Green/ Purple | Jun-Oct    | F/P   | Y             |
| <i>Scirpus atrovirens</i>       | Dark green rush        | 3'-5'  | Brown         | Jun-Aug    | F     | N             |
| <i>Scirpus cyperinus</i>        | Wool grass             | 3'-5'  | Tan           | Jun-Sep    | F     | Y             |
| <i>Scirpus pendulus</i>         | Red bulrush            | 2'-4'  | Brown         | May-Jun    | F     | N             |
| <i>Spartina pectinata</i>       | Prairie cordgrass      | 6'-7'  | Green         | Jul-Aug    | F     | Y             |
| <b>Forbs:</b>                   |                        |        |               |            |       |               |
| <i>Anemone canadensis</i>       | Canada anemone         | 1'-2'  | White         | May-Sep    | F/P   | N             |
| <i>Angelica atropurpurea</i>    | Great angelica         | 6'-9'  | White         | May-Jun    | F/P   | N             |
| <i>Asclepias incarnata</i>      | Swamp milkweed         | 3'-5'  | Pink          | Jun-Sep    | F/P   | N             |
| <i>Aster novae-angliae</i>      | New England aster      | 3'-6'  | Violet        | Jul-Oct    | F/P   | N             |
| <i>Aster puniceus</i>           | Swamp aster            | 3'-6'  | Lav/ White    | Aug-Oct    | F     | Y             |
| <i>Aster umbellatus</i>         | Flat-topped aster      | 1'-4'  | White         | Jul-Oct    | F/P   | N             |
| <i>Cacalia atriplicifolia</i>   | Pale Indian plantain   | 3'-8'  | White         | Jun-Oct    | F/P/S | N             |
| <i>Cassia hebecarpa</i>         | Wild senna             | 3'-5'  | Yellow        | Jul-Aug    | F/P   | N             |
| <i>Chelone glabra</i>           | Turtlehead             | 2'-4'  | Cream         | Aug-Sep    | F/P/S | N             |
| <i>Coreopsis tripteris</i>      | Tall coreopsis         | 4'-8'  | Yellow        | Aug-Sep    | F/P   | N             |
| <i>Desmodium canadense</i>      | Showy tick-trefoil     | 2'-5'  | Purple        | Jun-Sep    | F/P   | N             |
| <i>Eryngium yuccifolium</i>     | Rattlesnake master     | 3'-5'  | White         | Jul-Sep    | F     | N             |
| <i>Eupatorium maculatum</i>     | Spotted Joe-pye weed   | 4'-7'  | Pink          | Jun-Oct    | F/P   | N             |
| <i>Eupatorium perfoliatum</i>   | Boneset                | 3'-5'  | White         | Jul-Oct    | F/P   | Y             |
| <i>Euthamia graminifolia</i>    | Grass-leaved goldenrod | 1'-4'  | Yellow        | Jul-Sep    | F/P   | N             |
| <i>Gentiana andrewsii</i>       | Bottle gentian         | 1'-3'  | Blue          | Aug-Oct    | F/P   | N             |
| <i>Helenium autumnale</i>       | Sneezeweed             | 3'-5'  | Yellow        | Jul-Nov    | F/P   | Y             |
| <i>Helianthus giganteus</i>     | Tall sunflower         | 5'-12' | Yellow        | Jul-Sep    | F/P   | N             |
| <i>Heliopsis helianthoides</i>  | False sunflower        | 4'-6'  | Yellow        | Jun-Oct    | F/P   | N             |
| <i>Iris virginica</i>           | Blue flag iris         | 2'-3'  | Purple        | May-Jul    | F/P/S | N             |
| <i>Liatris spicata</i>          | Marsh blazing star     | 3'-5'  | Pink          | Jul-Sep    | F/P   | N             |
| <i>Lilium michiganense</i>      | Michigan lily          | 3'-8'  | Orange        | Jul-Aug    | P/S   | N             |
| <i>Lobelia cardinalis</i>       | Cardinal flower        | 2'-5'  | Red           | Jul-Oct    | F/P/S | N             |
| <i>Lobelia siphilitica</i>      | Great blue lobelia     | 1'-4'  | Blue          | Jul-Oct    | F/P/S | N             |
| <i>Lobelia spicata</i>          | Pale spiked lobelia    | 1'-3'  | Lavender      | May-Aug    | F/P   | N             |
| <i>Mimulus ringens</i>          | Monkeyflower           | 2'-4'  | Lavender      | Jun-Sep    | F/P   | N             |
| <i>Monarda fistulosa</i>        | Wild bergamot          | 2'-5'  | Lavender      | Jul-Sep    | F/P   | N             |
| <i>Physostegia virginiana</i>   | Obedient plant         | 2'-5'  | Pink          | Aug-Oct    | F     | Y             |
| <i>Polygonatum biflorum</i>     | Solomon seal           | 1'-4'  | Green/ White  | May/Jul    | P/S   | N             |
| <i>Pycnanthemum virginianum</i> | Mountain mint          | 1'-3'  | White         | Jun-Oct    | F/P   | N             |
| <i>Rudbeckia laciniata</i>      | Cutleaf coneflower     | 3'-10' | Yellow        | Jul-Nov    | F/P/S | N             |
| <i>Rudbeckia triloba</i>        | Three-lobed coneflower | 2'-5'  | Yellow        | Aug-Oct    | F/P   | N             |
| <i>Solidago caesia</i>          | Bluestem goldenrod     | 1'-2'  | Yellow        | Sep-Oct    | P/S   | N             |
| <i>Solidago flexicaulis</i>     | Zigzag goldenrod       | 1'-3'  | Yellow        | Aug/Oct    | P/S   | N             |
| <i>Solidago ohioensis</i>       | Ohio goldenrod         | 2'-3'  | Yellow        | Jul-Oct    | F/P   | N             |
| <i>Solidago patula</i>          | Swamp goldenrod        | 3'-6'  | Yellow        | Aug-Oct    | F/P/S | N             |
| <i>Solidago riddellii</i>       | Riddell's goldenrod    | 2'-5'  | Yellow        | Sep-Nov    | F     | N             |
| <i>Spiraea alba</i>             | Meadowsweet            | 3'-6'  | White         | June-Sep   | F/P   | Y             |
| <i>Spiraea tomentosa</i>        | Steeplebush            | 2'-5'  | Pink          | Jul-Sep    | F/P   | Y             |
| <i>Thalictrum dasycarpum</i>    | Purple meadow-rue      | 3'-6'  | Cream         | May-Jul    | F/P   | N             |
| <i>Verbena hastata</i>          | Blue vervain           | 3'-6'  | Violet        | Jun-Sep    | F     | N             |
| <i>Vernonia missurica</i>       | Missouri ironweed      | 3'-5'  | Purple        | Jul-Sep    | F     | N             |
| <i>Veronicastrum virginicum</i> | Culver's root          | 3'-6'  | White         | Jun-Aug    | F/P   | N             |
| <i>Zizia aurea</i>              | Golden Alexanders      | 1'-3'  | Yellow        | Apr-Jun    | F/P/S | Y             |

Representative Zone D Species



*Big Bluestem*



*Marsh Blazing Star*



*Wild Columbine*



*Great Blue Lobelia*



*Michigan Lily*



*Virginia Mountain Mint*



*Meadowsweet*



*Blue Vervain*

Source: JFNew

## Zone E

Planting Zone = Four-to-18 inches above water level

These plants tolerate fluctuating water levels within this range. They will also tolerate short periods of inundation, not to exceed 48 hours in most situations, making them appropriate for BMP settings.

| Botanical Name                 | Common Name                  | Height | Color        | Bloom Time | Sun   | Salt Tolerant |
|--------------------------------|------------------------------|--------|--------------|------------|-------|---------------|
| <b>Woody Species:</b>          |                              |        |              |            |       |               |
| <i>Acer rubrum</i>             | Red maple                    | 90'    | Green/red    | Mar-May    | F/P/S | N             |
| <i>Acer saccharum</i>          | Sugar maple                  | 100'   | Green        | Apr-May    | F/P/S | N             |
| <i>Acer saccharinum</i>        | Silver Maple                 | 100'   | Yellow       | Mar-Apr    | F/P   | N             |
| <i>Amelanchier arborea</i>     | Downy serviceberry           | 40'    | White        | April      | F/P/S | N             |
| <i>Aronia prunifolia</i>       | Purple chokeberry            | 10'    | White        | Apr-Jul    | F/P   | N             |
| <i>Betula papyrifera</i>       | Paper birch                  | 70'    | Brown        | Apr-May    | F/P   | N             |
| <i>Carya ovata</i>             | Shagbark hickory             | 80'    | Green        | May-Jun    | F/P/S | N             |
| <i>Ceanothus americanus</i>    | New Jersey tea               | 1'-3'  | White        | Jun-Oct    | F/P   | N             |
| <i>Celtis occidentalis</i>     | Hackberry                    | 60'    | Green        | May        | F/P/S | N             |
| <i>Cercis canadensis</i>       | Redbud                       | 25'    | Red          | Apr-May    | F/P/S | N             |
| <i>Cornus amomum</i>           | Silky dogwood                | 10'    | White        | May-Jul    | F/P   | N             |
| <i>Cornus florida</i>          | Flowering dogwood            | 30'    | White        | May-Jun    | F/P/S | N             |
| <i>Cornus sericea</i>          | Red-osier dogwood            | 10'    | White        | May-Sep    | F/P   | N             |
| <i>Corylus americana</i>       | American hazelnut            | 10'    | Yellow       | Apr-May    | F/P   | N             |
| <i>Gymnocladus dioica</i>      | Kentucky coffee tree         | 85'    | White        | Jun        | F/P   | N             |
| <i>Juglans nigra</i>           | Black walnut                 | 90'    | Green        | May        | F/P   | N             |
| <i>Juniperus virginiana</i>    | Red-cedar                    | 50'    | Brown        | Apr-May    | F/P   | N             |
| <i>Larix laricina</i>          | American larch               | 75'    | Brown        | May        | F/P   | N             |
| <i>Lindera benzoin</i>         | Spicebush                    | 15'    | Yellow       | Apr-May    | P/S   | N             |
| <i>Liriodendron tulipifera</i> | Tulip tree                   | 110'   | Green        | May-Jun    | F/P   | N             |
| <i>Morus rubra</i>             | Red mulberry                 | 50'    | Green        | May-Jun    | F/P/S | N             |
| <i>Nyssa sylvatica</i>         | Black gum                    | 100'   | Green        | May-Jul    | F/P/S | Y             |
| <i>Physocarpus opulifolius</i> | Ninebark                     | 10'    | White        | May-Jun    | F/P   | N             |
| <i>Picea mariana</i>           | Black spruce                 | 60'    | Brown        | May-Jun    | F/P/S | N             |
| <i>Pinus banksiana</i>         | Jack pine                    | 60'    | Brown        | May-Jun    | F/P   | N             |
| <i>Pinus resinosa</i>          | Red pine                     | 100'   | Brown        | Apr-May    | F/P   | N             |
| <i>Pinus strobus</i>           | White pine                   | 100'   | Brown        | Jun        | F/P/S | N             |
| <i>Platanus occidentalis</i>   | Sycamore                     | 100'   | Green        | May        | F/P   | N             |
| <i>Prunus americana</i>        | American plum                | 30'    | Red          | Apr-May    | F/P   | N             |
| <i>Prunus virginiana</i>       | Choke cherry                 | 30'    | White        | May-Jun    | F/P/S | N             |
| <i>Quercus bicolor</i>         | Swamp white oak              | 70'    | Green/yellow | May        | F/P/S | N             |
| <i>Quercus macrocarpa</i>      | Bur oak                      | 85'    | Yellow       | May-Jun    | F/P/S | N             |
| <i>Quercus palustris</i>       | Pin oak                      | 90'    | Green/yellow | Apr-May    | F/P/S | Y             |
| <i>Quercus rubra</i>           | Red Oak                      | 90'    | Green        | May-Jun    | F/P/S | N             |
| <i>Ribes americanum</i>        | Wild black currant           | 5'     | Yellow       | Apr-Jun    | F/P/S | N             |
| <i>Rosa carolina</i>           | Pasture rose                 | 3'     | Pink         | Jun-Sep    | F/P   | N             |
| <i>Tilia americana</i>         | Basswood                     | 100'   | White        | Jun-Jul    | F/P/S | N             |
| <i>Thuja occidentalis</i>      | White cedar                  | 50'    | Brown        | Apr-May    | F/P/S | N             |
| <i>Tsuga canadensis</i>        | Hemlock                      | 100'   | Brown        | Apr-May    | F/P/S | N             |
| <i>Ulmus americana</i>         | American elm                 | 100'   | Brown        | Mar-Apr    | F/P/S | N             |
| <i>Ulmus rubra</i>             | Slippery elm                 | 80'    | Green        | Mar-Apr    | F/P/S | N             |
| <i>Viburnum acerifolium</i>    | Maple-leaved Viburnum        | 7'     | White        | May-Aug    | F/P   | N             |
| <i>Viburnum dentatum</i>       | Arrowwood                    | 10'    | White        | May-Jun    | F/P/S | N             |
| <i>Viburnum prunifolium</i>    | Black haw                    | 10'    | White        | Apr-May    | F/P   | N             |
| <b>Grasses/Sedges/Rushes:</b>  |                              |        |              |            |       |               |
| <i>Andropogon gerardii</i>     | Big bluestem                 | 4'-8'  | Purple       | Jul-Sep    | F     | N             |
| <i>Carex bicknellii</i>        | Copper-shouldered oval sedge | 1'-2'  | Brown        | May-Jun    | F     | N             |
| <i>Carex mühlenbergii</i>      | Sand bracted sedge           | 1'-3'  | Brown        | May-Jun    | F/P/S | N             |
| <i>Elymus canadensis</i>       | Canada wild rye              | 3'-6'  | Green        | Jun-Sep    | F/P   | N             |

| Botanical Name                   | Common Name                   | Height  | Color         | Bloom Time | Sun   | Salt Tolerant |
|----------------------------------|-------------------------------|---------|---------------|------------|-------|---------------|
| <i>Elymus hystrix</i>            | Bottlebrush Grass             | 3'-5'   | Green         | Jun-Jul    | P/S   | N             |
| <i>Elymus virginicus</i>         | Virginia wild rye             | 2'-4'   | Green         | Jun        | F/P/S | N             |
| <i>Eragrostis spectabilis</i>    | Purple love grass             | 1'-2'   | Purple        | Aug-Oct    | F     | N             |
| <i>Juncus tenuis</i>             | Path rush                     | 6"-2'   | Brown         | June       | F/P/S | N             |
| <i>Panicum virgatum</i>          | Switch grass                  | 3'-6'   | Green/ Purple | Jun-Oct    | F/P   | Y             |
| <i>Schizachyrium scoparium</i>   | Little bluestem               | 2'-4'   | Brown         | Aug-Sep    | F/P   | Y             |
| <i>Sorghastrum nutans</i>        | Indian grass                  | 4'-9'   | Green         | Aug-Sep    | F     | N             |
| <i>Spartina pectinata</i>        | Prairie cordgrass             | 6'-7'   | Green         | Jul-Aug    | F     | Y             |
| <i>Stipa spartea</i>             | Porcupine grass               | 2'-4'   | Green         | Aug-Sep    | F     | Y             |
| <b>Forbs:</b>                    |                               |         |               |            |       |               |
| <i>Allium cernuum</i>            | Nodding wild onion            | 1'-2'   | Lavender      | Jun-Oct    | F/P   | N             |
| <i>Aquilegia canadensis</i>      | Wild columbine                | 1'-3'   | Red/ Yellow   | Apr-Jun    | F/P/S | Y             |
| <i>Asclepias syriaca</i>         | Common milkweed               | 2'-4'   | Pink          | Jun-Aug    | F/P   | N             |
| <i>Asclepias tuberosa</i>        | Butterflyweed                 | 1'-3'   | Orange        | Jun-Sep    | F/P   | Y             |
| <i>Asclepias verticillata</i>    | Whorled milkweed              | 1'-2'   | White         | Jun-Sep    | F/P   | N             |
| <i>Aster cordifolius</i>         | Heart-leaved aster            | 2'-4'   | Blue/ White   | Sep-Oct    | P/S   | N             |
| <i>Aster laevis</i>              | Smooth aster                  | 3'-5'   | Blue          | Aug-Oct    | F     | Y             |
| <i>Aster lateriflorus</i>        | Calico aster                  | 1'-3'   | White         | Jul-Oct    | F/P/S | N             |
| <i>Aster macrophyllus</i>        | Big-leaved aster              | 6"-2'   | Lav/ White    | Jul-Oct    | P/S   | N             |
| <i>Aster novae-angliae</i>       | New England aster             | 3'-6'   | Violet        | Jul-Oct    | F/P   | N             |
| <i>Aster oolentangiensis</i>     | Sky-blue aster                | 1'-4'   | Blue          | Jul-Nov    | F/P   | Y             |
| <i>Aster shortii</i>             | Short's aster                 | 1'-4'   | Blue          | Aug-Oct    | P/S   | N             |
| <i>Cacalia atriplicifolia</i>    | Pale Indian plantain          | 3'-8'   | White         | Jun-Oct    | F/P/S | N             |
| <i>Campanula americana</i>       | Tall bellflower               | 2'-6'   | Blue          | Jul-Nov    | P/S   | N             |
| <i>Cassia hebecarpa</i>          | Wild senna                    | 3'-5'   | Yellow        | Jul-Aug    | F/P   | N             |
| <i>Clematis virginiana</i>       | Virgin's bower                | 9' long | White         | Jul-Aug    | F/P   | N             |
| <i>Coreopsis tripteris</i>       | Tall coreopsis                | 4'-8'   | Yellow        | Aug-Sep    | F/P   | N             |
| <i>Desmodium canadense</i>       | Showy tick-trefoil            | 2'-5'   | Purple        | Jun-Sep    | F/P   | N             |
| <i>Echinacea pallida</i>         | Purple coneflower             | 2'-5'   | Lavender      | May-Aug    | F     | N             |
| <i>Eryngium yuccifolium</i>      | Rattlesnake master            | 3'-5'   | White         | Jul-Sep    | F     | N             |
| <i>Eupatorium purpureum</i>      | Purple Joe-pye weed           | 3'-6'   | Pink          | Jul-Sep    | P     | N             |
| <i>Euphorbia corollata</i>       | Flowering spurge              | 2'-4'   | White         | May-Oct    | F/P   | N             |
| <i>Geranium maculatum</i>        | Wild geranium                 | 1'-2'   | Pink          | Apr-Jul    | F/P/S | N             |
| <i>Helianthus divaricatus</i>    | Woodland sunflower            | 2'-6'   | Yellow        | Jun-Sep    | P/S   | N             |
| <i>Helianthus giganteus</i>      | Tall sunflower                | 5'-12'  | Yellow        | Jul-Sep    | F/P   | N             |
| <i>Helianthus pauciflorus</i>    | Prairie sunflower             | 3'-5'   | Yellow        | Jul-Oct    | F     | N             |
| <i>Heliopsis helianthoides</i>   | False sunflower               | 4'-6'   | Yellow        | Jun-Oct    | F/P   | N             |
| <i>Lespedeza capitata</i>        | Round-headed bush clover      | 2'-4'   | Green         | Jul-Sep    | F/P   | N             |
| <i>Liatis aspera</i>             | Rough blazing star            | 2'-3'   | Violet        | Jul-Nov    | F/P   | Y             |
| <i>Liatis spicata</i>            | Marsh blazing star            | 3'-5'   | Pink          | Jul-Sep    | F/P/S | N             |
| <i>Liatis scariosa</i>           | Savanna blazing star          | 3'-5'   | Violet        | Aug-Oct    | F/P   | N             |
| <i>Monarda fistulosa</i>         | Wild bergamot                 | 2'-5'   | Lavender      | Jul-Sep    | F/P   | N             |
| <i>Penstemon digitalis</i>       | Foxglove beardtongue          | 2'-4'   | White         | May-Jul    | F/P   | N             |
| <i>Penstemon hirsutus</i>        | Hairy beardtongue             | 1'-2'   | Purple        | May-Jul    | F/P   | N             |
| <i>Phlox divaricata</i>          | Wild blue phlox               | 1'-2'   | Blue          | Apr-Jun    | P/S   | N             |
| <i>Phlox pilosa</i>              | Sand prairie phlox            | 1'-2'   | Pink          | May-Aug    | F/P   | N             |
| <i>Physostegia virginiana</i>    | Obedient plant                | 2'-5'   | Pink          | Aug-Oct    | F     | Y             |
| <i>Polygonatum biflorum</i>      | Solomon seal                  | 1'-4'   | Green/ White  | May/Jul    | P/S   | N             |
| <i>Polygonatum pubescens</i>     | Downy Solomon seal            | 1'-3'   | White         | May-Jul    | P/S   | N             |
| <i>Pycnanthemum virginianum</i>  | Mountain mint                 | 1'-3'   | White         | Jun-Oct    | F/P   | N             |
| <i>Ratibida pinnata</i>          | Yellow coneflower             | 3'-6'   | Yellow        | Jul-Oct    | F     | N             |
| <i>Rudbeckia hirta</i>           | Black-eyed Susan              | 1'-3'   | Yellow        | May-Oct    | F/P   | Y             |
| <i>Rudbeckia triloba</i>         | Three-lobed coneflower        | 2'-5'   | Yellow        | Aug-Oct    | F/P   | N             |
| <i>Silphium terebinthinaceum</i> | Prairie-dock                  | 3'-8'   | Yellow        | Jun-Sep    | F     | N             |
| <i>Smilacina racemosa</i>        | Feathery false Solomon's seal | 1'-3'   | White         | Apr-Jun    | P/S   | N             |
| <i>Smilacina stellata</i>        | Starry false Solomon's seal   | 1'-2'   | White         | Apr-Jun    | F/P   | N             |
| <i>Solidago caesia</i>           | Bluestem goldenrod            | 1'-2'   | Yellow        | Sep-Oct    | P/S   | N             |
| <i>Solidago flexicaulis</i>      | Zigzag goldenrod              | 1'-3'   | Yellow        | Aug/Oct    | P/S   | N             |

| Botanical Name               | Common Name       | Height | Color  | Bloom Time | Sun | Salt Tolerant |
|------------------------------|-------------------|--------|--------|------------|-----|---------------|
| <i>Solidago juncea</i>       | Early goldenrod   | 2'-4'  | Yellow | Jul-Sep    | F/P | N             |
| <i>Solidago speciosa</i>     | Showy goldenrod   | 1'-3'  | Yellow | Jul-Oct    | F/P | Y             |
| <i>Thalictrum dioicum</i>    | Early meadow-rue  | 1'-3'  | Green  | Apr-May    | P/S | N             |
| <i>Tradescantia ohiensis</i> | Spiderwort        | 2'-4'  | Blue   | May-Oct    | F/P | N             |
| <i>Vernonia missurica</i>    | Missouri ironweed | 3'-5'  | Purple | Jul-Sep    | F   | N             |



Representative Zone E Species



*New England Aster*



*Wild Bergamot*



*Showy Goldenrod*



*Tall Bellflower*



*Wild Geranium*



*Tall Coreopsis*



*Redbud*



*Indian Grass*

Source: JFNew

## Zone F

Planting Zone = 18 inches or more above water level

These plants tolerate fluctuating water levels within this range, although they are generally less tolerant than most wetter species. They may tolerate short periods of inundation, not to exceed 48 hours in most situations, making them appropriate for upland BMP settings.

| Botanical Name                 | Common Name                  | Height | Color        | Bloom Time | Sun   | Salt Tolerant |
|--------------------------------|------------------------------|--------|--------------|------------|-------|---------------|
| <b>Woody Species:</b>          |                              |        |              |            |       |               |
| <i>Acer rubrum</i>             | Red maple                    | 90'    | Green/red    | Mar-May    | F/P/S | N             |
| <i>Acer saccharum</i>          | Sugar maple                  | 100'   | Green        | Apr-May    | F/P/S | N             |
| <i>Acer saccharinum</i>        | Silver Maple                 | 100'   | Yellow       | Mar-Apr    | F/P   | N             |
| <i>Betula papyrifera</i>       | Paper birch                  | 70'    | Brown        | Apr-May    | F/P   | N             |
| <i>Carya ovata</i>             | Shagbark hickory             | 80'    | Green        | May-Jun    | F/P/S | N             |
| <i>Ceanothus americanus</i>    | New Jersey tea               | 1'-3'  | White        | Jun-Oct    | F/P   | N             |
| <i>Celtis occidentalis</i>     | Hackberry                    | 60'    | Green        | May        | F/P/S | N             |
| <i>Cercis canadensis</i>       | Redbud                       | 25'    | Red          | Apr-May    | F/P/S | N             |
| <i>Cornus florida</i>          | Flowering dogwood            | 30'    | White        | May-Jun    | F/P/S | N             |
| <i>Corylus americana</i>       | American hazelnut            | 10'    | Yellow       | Apr-May    | F/P   | N             |
| <i>Gymnocladus dioicus</i>     | Kentucky coffee tree         | 85'    | White        | Jun        | F/P   | N             |
| <i>Hamamelis virginiana</i>    | Witch hazel                  | 30'    | Yellow       | Oct-Nov    | F/P/S | N             |
| <i>Juglans nigra</i>           | Black walnut                 | 90'    | Green        | May        | F/P   | N             |
| <i>Juniperus virginiana</i>    | Red-cedar                    | 50'    | Brown        | Apr-May    | F/P   | N             |
| <i>Liriodendron tulipifera</i> | Tulip tree                   | 110'   | Green        | May-Jun    | F/P   | N             |
| <i>Morus rubra</i>             | Red mulberry                 | 50'    | Green        | May-Jun    | F/P/S | N             |
| <i>Nyssa sylvatica</i>         | Black gum                    | 100'   | Green        | May-Jul    | F/P/S | Y             |
| <i>Pinus banksiana</i>         | Jack pine                    | 60'    | Brown        | May-Jun    | F/P   | N             |
| <i>Pinus resinosa</i>          | Red pine                     | 100'   | Brown        | Apr-May    | F/P   | N             |
| <i>Pinus strobus</i>           | White pine                   | 100'   | Brown        | Jun        | F/P/S | N             |
| <i>Prunus americana</i>        | American plum                | 30'    | Red          | Apr-May    | F/P   | N             |
| <i>Prunus virginiana</i>       | Choke cherry                 | 30'    | White        | May-Jun    | F/P/S | N             |
| <i>Quercus macrocarpa</i>      | Bur oak                      | 85'    | Yellow       | May-Jun    | F/P/S | N             |
| <i>Quercus palustris</i>       | Pin oak                      | 90'    | Green/yellow | Apr-May    | F/P/S | Y             |
| <i>Quercus rubra</i>           | Red Oak                      | 90'    | Green        | May-Jun    | F/P/S | N             |
| <i>Rosa carolina</i>           | Pasture rose                 | 3'     | Pink         | Jun-Sep    | F/P   | N             |
| <i>Tilia americana</i>         | Basswood                     | 100'   | Yellow       | Jun-Jul    | F/P/S | N             |
| <i>Tsuga canadensis</i>        | Hemlock                      | 100'   | Brown        | Apr-May    | F/P/S | N             |
| <i>Viburnum acerifolium</i>    | Maple-leaved Viburnum        | 7'     | White        | May-Aug    | F/P   | N             |
| <i>Viburnum dentatum</i>       | Arrowwood                    | 10'    | White        | May-Jun    | F/P/S | N             |
| <b>Grasses/Sedges/Rushes:</b>  |                              |        |              |            |       |               |
| <i>Andropogon gerardii</i>     | Big bluestem                 | 4'-8'  | Purple       | Jul-Sep    | F     | N             |
| <i>Carex bicknellii</i>        | Copper-shouldered oval sedge | 1'-2'  | Brown        | May-Jun    | F     | N             |
| <i>Carex muhlenbergii</i>      | Sand bracted sedge           | 1'-3'  | Brown        | May-Jun    | F/P/S | N             |
| <i>Elymus canadensis</i>       | Canada wild rye              | 3'-6'  | Green        | Jun-Sep    | F/P   | N             |
| <i>Elymus hystrix</i>          | Bottlebrush Grass            | 3'-5'  | Green        | Jun-Jul    | P/S   | N             |
| <i>Eragrostis spectabilis</i>  | Purple love grass            | 1'-2'  | Purple       | Aug-Oct    | F     | N             |
| <i>Koeleria macrantha</i>      | June grass                   | 1'-2'  | White        | May-Jul    | F/P   | N             |
| <i>Panicum virgatum</i>        | Switch grass                 | 3'-6'  | Green/Purple | Jun-Oct    | F/P   | Y             |
| <i>Schizachyrium scoparium</i> | Little bluestem              | 2'-4'  | Brown        | Aug-Sep    | F/P   | Y             |
| <i>Sorghastrum nutans</i>      | Indian Grass                 | 4'-9'  | Green        | Aug-Sep    | F     | N             |
| <i>Spartina pectinata</i>      | Prairie Cordgrass            | 6'-7'  | Green        | Jul-Aug    | F     | Y             |

| Botanical Name                   | Common Name                   | Height  | Color        | Bloom Time | Sun   | Salt Tolerant |
|----------------------------------|-------------------------------|---------|--------------|------------|-------|---------------|
| <i>Stipa spartea</i>             | Porcupine grass               | 2'-4'   | Green        | Aug-Sep    | F     | Y             |
| <b>Forbs:</b>                    |                               |         |              |            |       |               |
| <i>Allium cernuum</i>            | Nodding wild onion            | 1'-2'   | Lavender     | Jun-Oct    | F/P   | N             |
| <i>Asclepias syriaca</i>         | Common milkweed               | 2'-4'   | Pink         | Jun-Aug    | F/P   | N             |
| <i>Asclepias tuberosa</i>        | Butterflyweed                 | 1'-3'   | Orange       | Jun-Sep    | F/P   | Y             |
| <i>Asclepias verticillata</i>    | Whorled milkweed              | 1'-2'   | White        | Jun-Sep    | F/P   | N             |
| <i>Aster cordifolius</i>         | Heart-leaved aster            | 2'-4'   | Blue/White   | Sep-Oct    | P/S   | N             |
| <i>Aster laevis</i>              | Smooth aster                  | 3'-5'   | Blue         | Aug-Oct    | F     | Y             |
| <i>Aster oolentangiensis</i>     | Sky-blue aster                | 1'-4'   | Blue         | Jul-Nov    | F/P   | Y             |
| <i>Aster shortii</i>             | Short's aster                 | 1'-4'   | Blue         | Aug-Oct    | P/S   | N             |
| <i>Cacalia atriplicifolia</i>    | Pale Indian plantain          | 3'-8'   | White        | Jun-Oct    | F/P/S | N             |
| <i>Campanula americana</i>       | Tall bellflower               | 2'-6'   | Blue         | Jul-Nov    | P/S   | N             |
| <i>Clematis virginiana</i>       | Virgin's bower                | 9' long | White        | Jul-Aug    | F/P   | N             |
| <i>Coreopsis lanceolata</i>      | Sand coreopsis                | 1'-2'   | Yellow       | May-Aug    | F/P   | N             |
| <i>Coreopsis palmata</i>         | Prairie coreopsis             | 1'-2'   | Yellow       | Jun-Aug    | F/P   | N             |
| <i>Coreopsis tripteris</i>       | Tall coreopsis                | 4'-8'   | Yellow       | Aug-Sep    | F/P   | N             |
| <i>Echinacea pallida</i>         | Purple coneflower             | 2'-5'   | Lavender     | May-Aug    | F     | N             |
| <i>Eryngium yuccifolium</i>      | Rattlesnake master            | 3'-5'   | White        | Jul-Sep    | F     | N             |
| <i>Eupatorium purpureum</i>      | Purple Joe-pye weed           | 3'-6'   | Pink         | Jul-Sep    | P     | N             |
| <i>Euphorbia corollata</i>       | Flowering spurge              | 2'-4'   | White        | May-Oct    | F/P   | N             |
| <i>Geranium maculatum</i>        | Wild geranium                 | 1'-2'   | Pink         | Apr-Jul    | F/P/S | N             |
| <i>Helianthus divaricatus</i>    | Woodland sunflower            | 2'-6'   | Yellow       | Jun-Sep    | P/S   | N             |
| <i>Helianthus occidentalis</i>   | Western sunflower             | 2'-4'   | Yellow       | Aug-Sep    | F/P   | N             |
| <i>Helianthus pauciflorus</i>    | Prairie sunflower             | 3'-5'   | Yellow       | Jul-Oct    | F     | N             |
| <i>Heliopsis helianthoides</i>   | False sunflower               | 4'-6'   | Yellow       | Jun-Oct    | F/P   | N             |
| <i>Lespedeza capitata</i>        | Round-headed bush clover      | 2'-4'   | Green        | Jul-Sep    | F/P   | N             |
| <i>Liatris aspera</i>            | Rough blazing star            | 2'-3'   | Violet       | Jul-Nov    | F/P   | Y             |
| <i>Liatris cylindracea</i>       | Cylindrical blazing star      | 1'-2'   | Violet       | Jul-Oct    | F/P   | N             |
| <i>Liatris scariosa</i>          | Savanna blazing star          | 3'-5'   | Violet       | Aug-Oct    | F/P   | N             |
| <i>Lupinus perennis</i>          | Wild lupine                   | 1'-2'   | Purple       | Apr-Jun    | F/P   | N             |
| <i>Monarda fistulosa</i>         | Wild bergamot                 | 2'-5'   | Lavender     | Jul-Sep    | F/P   | N             |
| <i>Penstemon digitalis</i>       | Foxglove beardtongue          | 2'-4'   | White        | May-Jul    | F/P   | N             |
| <i>Phlox pilosa</i>              | Sand prairie phlox            | 1'-2'   | Pink         | May-Aug    | F/P   | N             |
| <i>Polygonatum biflorum</i>      | Solomon seal                  | 1'-4'   | Green/ White | May/Jul    | P/S   | N             |
| <i>Polygonatum pubescens</i>     | Downy Solomon seal            | 1'-3'   | White        | May-Jul    | P/S   | N             |
| <i>Ratibida pinnata</i>          | Yellow coneflower             | 3'-6'   | Yellow       | Jul-Oct    | F     | N             |
| <i>Rudbeckia hirta</i>           | Black-eyed Susan              | 1'-3'   | Yellow       | May-Oct    | F/P   | Y             |
| <i>Silphium terebinthinaceum</i> | Prairie-dock                  | 3'-8'   | Yellow       | Jun-Sep    | F     | N             |
| <i>Smilacina racemosa</i>        | Feathery false Solomon's seal | 1'-3'   | White        | Apr-Jun    | P/S   | N             |
| <i>Smilacina stellata</i>        | Starry false Solomon's seal   | 1'-2'   | White        | Apr-Jun    | F/P   | N             |
| <i>Solidago caesia</i>           | Bluestem goldenrod            | 1'-2'   | Yellow       | Sep-Oct    | P/S   | N             |
| <i>Solidago juncea</i>           | Early goldenrod               | 2'-4'   | Yellow       | Jul-Sep    | F/P   | N             |
| <i>Solidago speciosa</i>         | Showy goldenrod               | 1'-3'   | Yellow       | Jul-Oct    | F/P   | Y             |
| <i>Tradescantia ohiensis</i>     | Spiderwort                    | 2'-4'   | Blue         | May-Oct    | F/P   | N             |
| <i>Veronicastrum virginicum</i>  | Culver's root                 | 3'-6'   | White        | June-Aug   | F/P   | N             |

Representative Zone F Species



*Spiderwort*



*Butterfly Weed*



*Yellow Coneflower*



*Little Bluestem*



*Foxglove Beardtongue*



*Wild Lupine*



*Pale Purple Coneflower*



*Rattlesnake Master*



*Sand Coreopsis*

Source: JFNew

## Zone G

### Planter Box Plantings

Although this manual typically recommends using native plants wherever possible, certain situations call for nonnative plants due to particular site conditions. Because planter boxes traditionally have a short soil column and are exposed to drier conditions, non-native plants should be considered as long as they are considered non-invasive. Therefore, the list below contains both native and non-native species. Many planter boxes have traditionally used annual flowers. However, we recommend using perennial plants for establishing root systems and lowering maintenance in the long term. Many more species are available for planter boxes than are listed.

| Botanical Name                                     | Common Name                     | Height | Color       | Bloom Time | Sun   |
|--|---------------------------------|--------|-------------|------------|-------|
| <i>Ajuga reptans</i> 'Bronze Beauty'               | Bronze Beauty Ajuga             | 6"     | Blue        | May-Jun    | F     |
| <i>Allium maximowiczii</i> 'Alba'                  | White Flowered Ornamental Chive | 6"-1'  | White       | May-Jun    | F     |
| <i>Allium schoenoprasum</i> 'Glaucum'              | Blue Flowered Ornamental Chive  | 6"-1'  | Blue        | Jun-Jul    | F     |
| <i>Allium senescens montanum</i>                   | Mountain Garlic                 | 6"-1'  | Pink/Purple | Jun-Aug    | F     |
| <i>Allium senescens glaucum</i>                    | Curly Onion                     | 6"-1'  | Pink        | Jul-Sep    | F     |
| <i>Allium tanguticum</i> 'Summer Beauty'           | Summer Beauty Ornamental Chive  | 6"-1'  | Pink        | Jul-Aug    | F     |
| <i>Aster</i> 'Wood's Light Blue'                   | Wood's Light Blue Aster         | 1'-3'  | Blue        | Aug-Sep    | F     |
| <i>Athyrium filix-femina</i>                       | Lady Fern                       | 1'-3'  | Green       | NA         | F/P/S |
| <i>Blechnum spicant</i>                            | Deer Fern                       | 1'-2'  | Green       | NA         | F/P/S |
| <i>Dryopteris erythrosora</i>                      | Autumn Fern                     | 1'-2'  | Green       | NA         | F/P/S |
| <i>Euphorbia myrsinites</i>                        | Myrtle Spurge                   | 6"-1'  | Yellow      | May-Jun    | F     |
| <i>Dryopteris intermedia</i>                       | Fancy Fern                      | 1'-3'  | Green       | NA         | F/P/S |
| <i>Dryopteris marginalis</i>                       | Leatherleaf Fern                | 1'-2'  | Green       | NA         | F/P/S |
| <i>Geranium</i> x 'Rozanne'                        | Rozanne Geranium                | 1'-2'  | Violet      | Jun-Sep    | F/P   |
| <i>Hemerocallis</i> 'Barbara Mitchell'             | Barbara Mitchell Daylily        | 2'-3'  | Pink        | Jun-Aug    | F/P   |
| <i>Hemerocallis</i> 'Bill Norris'                  | Bill Norris Daylily             | 2'-3'  | Yellow      | Jun-Aug    | F/P   |
| <i>Hemerocallis</i> 'Chicago Apache'               | Chicago Apache Daylily          | 2'-3'  | Red         | Jul-Sep    | F/P   |
| <i>Hosta</i> 'Francee'                             | Francee Hosta                   | 1'-2'  | Lavender    | Jul-Aug    | F/P/S |
| <i>Hosta</i> 'Guacamole'                           | Guacamole Hosta                 | 1'-2'  | Pink        | Aug-Sep    | F/P/S |
| <i>Hosta</i> 'Summer Fragrance'                    | Summer Fragrance Hosta          | 1'-2'  | Lavender    | Aug-Sep    | F/P/S |
| <i>Hosta sieboldiana</i> 'Elegans'                 | Elegans Hosta                   | 1'-2'  | White       | Jul-Aug    | F/P/S |
| <i>Sedum</i> 'Autumn Charm'                        | Autumn Charm Sedum              | 6"-1'  | Pink        | Jun-Jul    | F     |
| <i>Sedum</i> 'Joyce Henderson'                     | Joyce Henderson Sedum           | 6"-1'  | Pink        | May-Jun    | F     |
| <i>Sedum</i> 'Mini Me'                             | Mini Me Sedum                   | 6"-1'  | Green       | NA         | F     |
| <i>Sedum acre</i> 'Oktoberfest'                    | Oktoberfest Sedum               | 6"-1'  | Yellow      | Jul-Sep    | F     |
| <i>Sedum album</i> 'Athoum'                        | Jelly Bean Sedum                | 6"-1'  | Pink        | Aug-Sep    | F     |
| <i>Sedum album</i> 'Coral Carpet'                  | Coral Carpet Sedum              | 6"-1'  | White       | Jun-Aug    | F     |
| <i>Sedum album</i> 'Faro Island'                   | Faro Island Sedum               | 6"-1'  | White       | Jun-Aug    | F     |
| <i>Sedum album</i> 'Green Ice'                     | Green Ice Sedum                 | 6"-1'  | White       | Jun-Jul    | F     |
| <i>Sedum album</i> 'Murale'                        | Wall Sedum                      | 6"-1'  | White       | Jun-Jul    | F     |
| <i>Sedum cauticola</i> 'Sunset Cloud'              | Sunset Cloud Sedum              | 6"-1'  | Pink        | Jul-Aug    | F     |
| <i>Sedum divergens</i>                             | Cascade Sedum                   | 6"-1'  | Yellow      | Jun-Jul    | F     |
| <i>Sedum ellacombianum</i>                         | Ellacombe's Sedum               | 6"-1'  | Yellow      | May-Jun    | F     |
| <i>Sedum ellacombianum</i> 'Variegatum'            | Variegated Ellacombe's Sedum    | 6"-1'  | Yellow      | May-Jun    | F     |
| <i>Sedum floriferum</i> 'Weihenstephaner Gold'     | Weihenstephaner Gold Sedum      | 6"-1'  | Yellow      | Jun-Jul    | F     |
| <i>Sedum grisebachii</i>                           | Griseback Sedum                 | 6"-1'  | Yellow      | Jul-Aug    | F     |
| <i>Sedum hybridum</i> 'Tekaridake'                 | Tekaridake Kamtschatka Sedum    | 6"-1'  | Yellow      | Jun        | F     |
| <i>Sedum kamtschaticum</i> 'Variegatum'            | Variegated Kamtschatka Sedum    | 6"-1'  | Orange      | Jul-Aug    | F     |
| <i>Sedum middendorffianum</i> var. <i>diffusum</i> | Diffuse Middendorf's Sedum      | 6"-1'  | Yellow      | May-Jun    | F     |

Representative Zone G Species



*Guacamole Hosta*



*Mountain Garlic*



*Wall Sedum*



*Lady Fern*

Source: JFNew

## Zone H

### Vegetated Roof Plantings

Research to-date shows that native plants do not typically thrive in vegetated roofs. Therefore, the list below reflects species that are known to thrive in green roof situations. All species listed below will generally grow to a height of 6-to-18 inches.

| Botanical Name                                     | Common Name                     | Height | Color       | Bloom Time | Sun   |
|--|---------------------------------|--------|-------------|------------|-------|
| <i>Ajuga reptans</i> 'Bronze Beauty'               | Bronze Beauty Ajuga             | 6"     | Blue        | May-Jun    | F     |
| <i>Allium maximowiczii</i> 'Alba'                  | White Flowered Ornamental Chive | 6"-1'  | White       | May-Jun    | F     |
| <i>Allium schoenoprasum</i> 'Glaucum'              | Blue Flowered Ornamental Chive  | 6"-1'  | Blue        | Jun-Jul    | F     |
| <i>Allium senescens montanum</i>                   | Mountain Garlic                 | 6"-1'  | Pink/Purple | Jun-Aug    | F     |
| <i>Allium senescens glaucum</i>                    | Curly Onion                     | 6"-1'  | Pink        | Jul-Sep    | F     |
| <i>Allium tanguticum</i> 'Summer Beauty'           | Summer Beauty Ornamental Chive  | 6"-1'  | Pink        | Jul-Aug    | F     |
| <i>Aster</i> 'Wood's Light Blue'                   | Wood's Light Blue Aster         | 1'-3'  | Blue        | Aug-Sep    | F     |
| <i>Athyrium filix-femina</i>                       | Lady Fern                       | 1'-3'  | Green       | NA         | F/P/S |
| <i>Blechnum spicant</i>                            | Deer Fern                       | 1'-2'  | Green       | NA         | F/P/S |
| <i>Dryopteris erythrosora</i>                      | Autumn Fern                     | 1'-2'  | Green       | NA         | F/P/S |
| <i>Euphorbia myrsinites</i>                        | Mytle Spurge                    | 6"-1'  | Yellow      | May-Jun    | F     |
| <i>Dryopteris intermedia</i>                       | Fancy Fern                      | 1'-3'  | Green       | NA         | F/P/S |
| <i>Dryopteris marginalis</i>                       | Leatherleaf Fern                | 1'-2'  | Green       | NA         | F/P/S |
| <i>Geranium x</i> 'Rozanne'                        | Rozanne Geranium                | 1'-2'  | Violet      | Jun-Sep    | F/P   |
| <i>Hemerocallis</i> 'Barbara Mitchell'             | Barbara Mitchell Daylily        | 2'-3'  | Pink        | Jun-Aug    | F/P   |
| <i>Hemerocallis</i> 'Bill Norris'                  | Bill Norris Daylily             | 2'-3'  | Yellow      | Jun-Aug    | F/P   |
| <i>Hemerocallis</i> 'Chicago Apache'               | Chicago Apache Daylily          | 2'-3'  | Red         | Jul-Sep    | F/P   |
| <i>Hosta</i> 'Francee'                             | Francee Hosta                   | 1'-2'  | Lavender    | Jul-Aug    | F/P/S |
| <i>Hosta</i> 'Guacamole'                           | Guacamole Hosta                 | 1'-2'  | Pink        | Aug-Sep    | F/P/S |
| <i>Hosta</i> 'Summer Fragrance'                    | Summer Fragrance Hosta          | 1'-2'  | Lavender    | Aug-Sep    | F/P/S |
| <i>Hosta sieboldiana</i> 'Elegans'                 | Elegans Hosta                   | 1'-2'  | White       | Jul-Aug    | F/P/S |
| <i>Sedum</i> 'Autumn Charm'                        | Autumn Charm Sedum              | 6"-1'  | Pink        | Jun-Jul    | F     |
| <i>Sedum</i> 'Joyce Henderson'                     | Joyce Henderson Sedum           | 6"-1'  | Pink        | May-Jun    | F     |
| <i>Sedum</i> 'Mini Me'                             | Mini Me Sedum                   | 6"-1'  | Green       | NA         | F     |
| <i>Sedum acre</i> 'Oktoberfest'                    | Oktoberfest Sedum               | 6"-1'  | Yellow      | Jul-Sep    | F     |
| <i>Sedum album</i> 'Athoum'                        | Jelly Bean Sedum                | 6"-1'  | Pink        | Aug-Sep    | F     |
| <i>Sedum album</i> 'Coral Carpet'                  | Coral Carpet Sedum              | 6"-1'  | White       | Jun-Aug    | F     |
| <i>Sedum album</i> 'Faro Island'                   | Faro Island Sedum               | 6"-1'  | White       | Jun-Aug    | F     |
| <i>Sedum album</i> 'Green Ice'                     | Green Ice Sedum                 | 6"-1'  | White       | Jun-Jul    | F     |
| <i>Sedum album</i> 'Murale'                        | Wall Sedum                      | 6"-1'  | White       | Jun-Jul    | F     |
| <i>Sedum cauticola</i> 'Sunset Cloud'              | Sunset Cloud Sedum              | 6"-1'  | Pink        | Jul-Aug    | F     |
| <i>Sedum divergens</i>                             | Cascade Sedum                   | 6"-1'  | Yellow      | Jun-Jul    | F     |
| <i>Sedum ellacombianum</i>                         | Ellacombe's Sedum               | 6"-1'  | Yellow      | May-Jun    | F     |
| <i>Sedum ellacombianum</i> 'Variegatum'            | Variegated Ellacombe's Sedum    | 6"-1'  | Yellow      | May-Jun    | F     |
| <i>Sedum floriferum</i> 'Weihenstephaner Gold'     | Weihenstephaner Gold Sedum      | 6"-1'  | Yellow      | Jun-Jul    | F     |
| <i>Sedum grisebachii</i>                           | Griseback Sedum                 | 6"-1'  | Yellow      | Jul-Aug    | F     |
| <i>Sedum hybridum</i> 'Tekaridake'                 | Tekaridake Kamtschatka Sedum    | 6"-1'  | Yellow      | Jun        | F     |
| <i>Sedum kamtschaticum</i> 'Variegatum'            | Variegated Kamtschatka Sedum    | 6"-1'  | Orange      | Jul-Aug    | F     |
| <i>Sedum middendorffianum</i> var. <i>diffusum</i> | Diffuse Middendorf's Sedum      | 6"-1'  | Yellow      | May-Jun    | F     |

Representative Zone H Species



*Mountain Garlic*



*Cascade Sedum*



*Wall Sedum*



*Ellacombe's Sedum*

Source: JFNew



## Credits and Acknowledgments

This Appendix has been developed by Christopher B. Burke Engineering, LLC, and is primarily based upon similar segments contained in “Low Impact Development Manual for Michigan: A Design Guide for Implementers and Reviewers” published in 2009 by the Southeast Michigan Council of Governments (SEMCOG). A selection of material contained in the noted SEMCOG publication has been modified to reflect conditions in Indiana and used, with permission, for development of this Appendix. The valuable contribution of SEMCOG through sharing of this material for use in this Appendix is hereby acknowledged.