

## Wet Site Mix Example

*This is an example of a native seed mix suitable for upland mesic sites.*

*It provides percentages for each species. These percentages are just a guide. It is recommended that the seed companies with whom you work determine the correct percentages for each species*

*The colored bands on the right indicate the color of the flowers and the species' bloom period.*

*Exclusions indicate the species is of conservation concern for that particular state and should not be included in a mix for that state.*

*Species in blue are for specialist pollinators and may be harder to find producers.*

| Botanical Name                  | Common Name                    | % of mix | Exclusions | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov |
|---------------------------------|--------------------------------|----------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <i>Elymus virginicus</i>        | Virginia wildrye               | 24.7     |            |     |     |     |     |     |     |     |     |     |
| <i>Packera aurea</i>            | golden groundsel               | 0.4      |            |     |     |     |     |     |     |     |     |     |
| <i>Apocynum cannabinum</i>      | hemp dogbane                   | 0.2      |            |     |     |     |     |     |     |     |     |     |
| <i>Iris versicolor</i>          | blue flag iris                 | 0.8      |            |     |     |     |     |     |     |     |     |     |
| <i>Juncus tenuis</i>            | path rush                      | 0.7      |            |     |     |     |     |     |     |     |     |     |
| <i>Zizia aurea</i>              | Golden Alexanders              | 1.3      |            |     |     |     |     |     |     |     |     |     |
| <i>Geranium maculatum</i>       | spotted crane's-bill           | 0.5      |            |     |     |     |     |     |     |     |     |     |
| <i>Carex lurida</i>             | sallow sedge                   | 6.8      |            |     |     |     |     |     |     |     |     |     |
| <i>Solidago juncea</i>          | early goldenrod                | 0.1      |            |     |     |     |     |     |     |     |     |     |
| <i>Asclepias incarnata</i>      | swamp milkweed                 | 2.7      |            |     |     |     |     |     |     |     |     |     |
| <i>Carex vulpinoidea</i>        | common fox sedge               | 19.1     |            |     |     |     |     |     |     |     |     |     |
| <i>Lilium canadense</i>         | Canada lily                    | 0.6      | RI         |     |     |     |     |     |     |     |     |     |
| <i>Oenothera biennis</i>        | common evening-primrose        | 0.2      |            |     |     |     |     |     |     |     |     |     |
| <i>Mimulus ringens</i>          | monkeyflower                   | 0.2      |            |     |     |     |     |     |     |     |     |     |
| <i>Lysimachia terrestris</i>    | swamp yellow-loosestrife       | 0.4      |            |     |     |     |     |     |     |     |     |     |
| <i>Verbena hastata</i>          | blue vervain                   | 4        |            |     |     |     |     |     |     |     |     |     |
| <i>Vernonia noveboracensis</i>  | New York Ironweed              | 1.3      |            |     |     |     |     |     |     |     |     |     |
| <i>Carex scoparia</i>           | pointed broom sedge            | 6.8      |            |     |     |     |     |     |     |     |     |     |
| <i>Scripus hattorianus</i>      | Northern bulrush               | 0.4      |            |     |     |     |     |     |     |     |     |     |
| <i>Desmodium canadense</i>      | showy tick-trefoil             | 0.7      |            |     |     |     |     |     |     |     |     |     |
| <i>Chelone glabra</i>           | pink turtlehead                | 1        |            |     |     |     |     |     |     |     |     |     |
| <i>Juncus effusus</i>           | common soft rush               | 2        |            |     |     |     |     |     |     |     |     |     |
| <i>Panicum virgatum</i>         | switch panicgrass              | 17.2     | VT         |     |     |     |     |     |     |     |     |     |
| <i>Hypericum majus</i>          | greater Canada St. John's-wort | 0.6      |            |     |     |     |     |     |     |     |     |     |
| <i>Scutellaria galericulata</i> | hooded skullcap                | 0.4      |            |     |     |     |     |     |     |     |     |     |
| <i>Eupatorium perfoliatum</i>   | boneset thoroughwort           | 1.3      |            |     |     |     |     |     |     |     |     |     |
| <i>Cirsium muticum</i>          | swamp thistle                  | 0.2      |            |     |     |     |     |     |     |     |     |     |
| <i>Impatiens capensis</i>       | jewelweed                      | 0.4      |            |     |     |     |     |     |     |     |     |     |
| <i>Lobelia cardinalis</i>       | cardinal-flower                | 0.2      |            |     |     |     |     |     |     |     |     |     |



## Composing Wet Mix

When composing a seed mix, it is important that a seed mix consists of sequential blooms throughout the growing season. However, some species may not be available. Therefore, the list is separated into cover crops, grasses, and wildflowers. For cover crops, select the one appropriate for the time periods indicated in Column B. For grasses, make sure the mix includes those species that are essential to any Northeastern mix. However, it is best that a mix includes at least 5 species of grasses. Wildflower species are divided into groups based on similar bloom times. When composing together a mix, choose at least 3 to 5 species from each flowering period. However, for bloom periods with large numbers of multiple species from a particular genus, such as *Soliago* and *Symphotrichum* in the late summer, avoid selecting only species from those genera.

### Cover crops

|                              |                                  |             |  |
|------------------------------|----------------------------------|-------------|--|
| <i>Secale cereale</i>        | Use from September 1 to April 30 | 30 lbs/acre |  |
| <i>Echinochloa esculenta</i> | Use from May 1 to July 31        | 10 lbs/acre |  |

### Grasses (Graminoids)

(Species colored green are essential to a mix)

| Botanical Name                 | Common Name                 |  |  |
|--------------------------------|-----------------------------|--|--|
| <i>Andropogon gerardii</i>     | big bluestem                |  |  |
| <i>Elymus virginicus</i>       | Virginia wildrye            |  |  |
| <i>Carex crinita</i>           | fringed sedge               |  |  |
| <i>Carex lurida</i>            | sallow sedge                |  |  |
| <i>Carex scoparia</i>          | pointed broom sedge         |  |  |
| <i>Carex stricta</i>           | tussock sedge               |  |  |
| <i>Carex vulpinoidea</i>       | common fox sedge            |  |  |
| <i>Deschampsia flexuosa</i>    | wavy hair-grass             |  |  |
| <i>Juncus effusus</i>          | common soft rush            |  |  |
| <i>Juncus tenuis</i>           | path rush                   |  |  |
| <i>Panicum virgatum</i>        | switch panicgrass           |  |  |
| <i>Schizachyrium scoparium</i> | little bluestem             |  |  |
| <i>Scirpus cyperinus</i>       | common woolsedge, woolgrass |  |  |
| <i>Scripus hattorianus</i>     | Northern bulrush            |  |  |
| <i>Sorghastrum nutans</i>      | Indian grass                |  |  |
| <i>Tridens flavus</i>          | purpletop tridens           |  |  |

Species with names in blue provide resources for specialist and endangered species of pollinators but are not necessarily workhorse species. Specialist pollinators have evolved a specific relationship with a few or even just one plant species. Including native forbs that cater to specialist pollinators helps combat the degradation of these pollinator populations

### Late spring blooming species

| Botanical Name             | Common Name          |  |  |
|----------------------------|----------------------|--|--|
| <i>Apocynum cannabinum</i> | hemp dogbane         |  |  |
| <i>Geranium maculatum</i>  | spotted crane's-bill |  |  |
| <i>Iris versicolor</i>     | blue flag iris       |  |  |
| <i>Packera aurea</i>       | golden groundsel     |  |  |
| <i>Zizia aurea</i>         | golden Alexanders    |  |  |

| <b>Early summer blooming species</b> |                                 |  |  |
|--------------------------------------|---------------------------------|--|--|
| <b>Botanical Name</b>                | <b>Common Name</b>              |  |  |
| <i>Asclepias incarnata</i>           | swamp milkweed                  |  |  |
| <i>Lilium canadense</i>              | Canada lily                     |  |  |
| <i>Lysimachia terrestris</i>         | swamp yellow-loosestrife        |  |  |
| <i>Mimulus ringens</i>               | monkeyflower                    |  |  |
| <i>Oenothera biennis</i>             | common evening-primrose         |  |  |
| <i>Solidago juncea</i>               | early goldenrod                 |  |  |
| <i>Verbena hastata</i>               | blue vervain                    |  |  |
|                                      |                                 |  |  |
| <b>Mid-summer blooming species</b>   |                                 |  |  |
| <b>Botanical Name</b>                | <b>Common Name</b>              |  |  |
| <i>Chelone glabra</i>                | pink turtlehead                 |  |  |
| <i>Cirsium muticum</i>               | swamp thistle                   |  |  |
| <i>Desmodium canadense</i>           | showy tick-trefoil              |  |  |
| <i>Eutrochium dubium</i>             | coastal plain Joe-Pye weed      |  |  |
| <i>Eutrochium fistulosum</i>         | hollow Joe-Pye weed             |  |  |
| <i>Hypericum majus</i>               | greater Canada St. John's-wort  |  |  |
| <i>Impatiens capensis</i>            | jewelweed                       |  |  |
| <i>Scutellaria galericulata</i>      | hooded skullcap                 |  |  |
| <i>Vernonia noveboracensis</i>       | New York Ironweed               |  |  |
|                                      |                                 |  |  |
| <b>Late summer blooming species</b>  |                                 |  |  |
| <b>Botanical Name</b>                | <b>Common Name</b>              |  |  |
| <i>Eupatorium perfoliatum</i>        | boneset thoroughwort            |  |  |
| <i>Gentiana clausa</i>               | meadow bottle gentian           |  |  |
| <i>Helenium autumnale</i>            | fall sneezeweed                 |  |  |
| <i>Lobelia cardinalis</i>            | cardinal-flower                 |  |  |
| <i>Solidago bicolor</i>              | white goldenrod                 |  |  |
| <i>Solidago caesia</i>               | blue-stem goldenrod             |  |  |
| <i>Solidago nemoralis</i>            | gray goldenrod                  |  |  |
| <i>Solidago patula</i>               | rough-leaved goldenrod          |  |  |
| <i>Solidago puberula</i>             | downy goldenrod                 |  |  |
| <i>Solidago rugosa</i>               | common wrinkle-leaved goldenrod |  |  |
| <i>Solidago speciosa</i>             | showy goldenrod                 |  |  |
| <i>Symphotrichum cordifolium</i>     | heart-leaved American-aster     |  |  |
| <i>Symphotrichum lateriflorum</i>    | calico American-aster           |  |  |
| <i>Symphotrichum laeve</i>           | smooth blue aster               |  |  |
| <i>Symphotrichum novi-belgii</i>     | New York American-aster         |  |  |