

Native Plant Spacings DRAFT **update names**
 last update 32 March 2012

Key	F Forb	FHV Forb herbaceous vine	FWSH Forb/woody shrub
F fern; FrnAl fern ally	G Grass or grasslike	R Rush	S Sedge
WSH Woody Shrub	WV Woody Vine		

Species	type	height (')	centers (')
<i>Acorus americanus</i> Sweetflag	F	2.0-3.0	1.0-3.0
<i>Actaea pachypoda</i> White Baneberry	F	2.0-3.0	(1.0)1.5-2.0
<i>Adiantum pedatum</i> Maidenhair Fern	Fern	1.0-1.5	1.0-1.25
<i>Agastache foeniculum</i> Anise Hyssop	F	(1.0)2.0-4.0	(1.0)2.0-3.0
<i>Agastache nepetoides</i> Yellow Giant Hyssop	F	4.0-6.0	1.5-2.0
<i>Agastache scrophulariaefolia</i> Purple Giant Hyssop	F	3.0-6.0	1.5-2.0
<i>Alisma subcordatum</i> Water Plantain	F	1.0-2.0+	1.0-1.5
<i>Allium canadense</i> Wild Onion	F	1.0-1.5	0.75-1.0
<i>Allium cernuum</i> Nodding Wild Onion	F	(0.5)0.75-1.0(2.0)	0.75-1.0
<i>Allium stellatum</i> Prairie Onion	F	0.5-1.25	0.75-1.0
<i>Allium tricoccum</i> Wild Leek	F	0.5-1.0	1.0-1.25
<i>Amorpha canescens</i> Leadplant	FWSH	2.0-3.0	1.25-1.5(2.0)
<i>Amorpha fruticosa</i> Indigo Bush	FWSH	6.0-12.0	3.0-4.0
<i>Amorpha nana</i> Fragrant False Indigo	FWSH	1.0-1.5	1.0-1.25
<i>Amsonia tabernaemontana</i> Common Bluestar	F	2.0-3.0	1.0-2.0
<i>Anaphalis margaritacea</i> Pearly Everlasting	F	1.5-2.0	1.5-2.0
<i>Anemone canadensis</i> Meadow Anemone	F	1.0-1.5	1.0-2.0+
<i>Anemone cylindrica</i> Thimbleweed	F	2.0-2.5	1.0-1.25
<i>Anemone patens wolfgangiana</i> (<i>Pulsatilla p.</i>) Pasque Flower	F	0.5-1.0	1.0-1.25
<i>Anemone virginiana</i> Tall Anemone	F	2.0-3.0	1.0-1.25
<i>Angelica atropurpurea</i> Angelica	F	6.0-8.0	1.5-2.0+

<i>Antennaria plantaginifolia</i> Pussytoes	F	0.5-1.5	1.0-1.5+
<i>Aquilegia canadensis</i> Columbine	F	1.0-3.0	1.25-1.5
<i>Arisaema atrorubens</i> (A. <i>tryphyllum</i>) Jack-in-the-Pulpit	F	1.5-2.0	1.25-1.5
<i>Artemisia caudata</i> (A. <i>campestris</i>) Beach Wormwood	F	2.0-4.0	2.0-3.0
<i>Artemisia frigida</i> Fringed Sage	FWSH	0.75-1.5	1.0-1.5
<i>Artemisia ludoviciana</i> Prairie Sage	F	1.0-4.0	1.5-2.0
<i>Asarum canadense</i> Wild Ginger	F	0.33-0.5	0.75-1.0
<i>Asclepias exaltata</i> Poke milkweed	F	2.0-6.0	2.0-3.0
<i>Asclepias hirtella</i> Tall Green Milkweed	F	2.0-3.0	1.5-2.0
<i>Asclepias incarnata</i> Swamp Milkweed	F	3.0-6.0	1.5-2.0
<i>Asclepias purpurascens</i> Purple Milkweed	F	2.0-3.0	1.25-1.5
<i>Asclepias speciosa</i> Showy Milkweed	F	2.0-3.0	2.0-3.0
<i>Asclepias syriaca</i> Common Milkweed	F	3.0-4.0	1.5-2.0
<i>Asclepias tuberosa</i> Butterflyweed	F	1.5-2.5	1.25-1.5
<i>Asclepias verticillata</i> Whorled Milkweed	F	1.5-3.0	2.0-3.0
<i>Asclepias viridis</i> Spider Milkweed	F	1.0-1.5	1.5-2.0
<i>Aster azureus</i> (<i>Symphyotrichum</i> <i>oolentangiensis</i>) Sky Blue Aster	F	2.0-3.0	1.5-2.0
<i>Aster divaricatus</i> White Wood Aster	F		
<i>Aster dumosus</i> Rice Button Aster	F	2.0-3.0	1.5-2.0
<i>Aster ericoides</i> (<i>Symphyotrichum e.</i>) Heath Aster	F	1.5-2.0	1.5-2.0
<i>Aster furcatus</i> Forked Aster	F	2.0-3.0	1.25-1.5
<i>Aster laevis</i> (<i>Symphyotrichum</i> <i>laeve</i>) Smooth Blue Aster	F	3.0-4.0	1.5-2.0
<i>Aster novae-angliae</i> (<i>Symphyotrichum n.</i>) New England Aster	F	3.0-6.0	1.5-2.0

<i>Aster nova-belgii</i> New York Aster	F	2.0-3.0	1.5-2.0
<i>Aster ptarmicoides</i> (<i>Oligoneuron album</i>) Upland White Aster	F	1.0-2.0	1.5-2.0
<i>Aster puniceus</i> (<i>Symphotrichum puniceum</i>) Swamp Aster	F	2.0-5.0	2.0-3.0
<i>Aster sagittifolius</i> (<i>Symphotrichum urophyllum</i>) Arrow-Leafed Aster	F	2.0-4.0	1.5-2.0
<i>Aster sericeus</i> Silky Aster	F	0.67-1.0	1.0-1.25
<i>Aster turbinellus</i> (<i>Symphotrichum t.</i>) Prairie Aster	F	2.0-3.0	1.25-1.5
<i>Aster umbellatus</i> (<i>Doellingeria u.</i>) Flat-topped Aster	F	2.0-4.0	1.5-2.0
<i>Astragalus canadensis</i> Canada Milk Vetch	F	2.0-4.0	1.5-2.0
<i>Baptisia australis</i> Blue Wild Indigo	F	2.0-3.0	2.0-3.0
<i>Baptisia leucantha</i> (<i>B. alba macrophylla</i>) White Indigo	F	3.0-5.0	1.5-2.0
<i>Baptisia leucophaea</i> Cream Indigo	F	1.0-2.0	1.5-2.0
<i>Baptisia minor</i> Dwarf Blue Indigo	F	3.0-4.0	2.0-3.0
<i>Baptisia sphaerocarpa</i> Large Yellow Wild Indigo	F	2.0-3.0	2.0-3.0
<i>Baptisia tinctoria</i> Small Yellow Indigo	F	2.0-2.5	1.5-2.0
<i>Bidens aristosa</i> Swamp Marigold	F	3.0-5.0	1.5-2.0
<i>Bidens cernua</i> Nodding Bur Marigold	F	2.0-3.0	1.25-1.5
<i>Bidens coronata</i> Tall Swamp Marigold	F	2.0-6.0	1.5-2.0
<i>Blephilia hirsuta</i> Hairy Wood Mint	F	2.0-3.0	1.25-1.5
<i>Boltonia decurrens</i> Decurrent False Aster	F	4.0-6.0	2.0-3.0
<i>Cacalia plantaginea</i> Prairie Indian Plantain	F	3.0-5.0	1.5-2.0
<i>Callirhoe involucrata</i> Purple Poppy Mallow	F	0.5-1.0	1.0-1.25
<i>Callirhoe triangulata</i> Clustered Poppy Mallow	F	0.5-1.0	1.0-1.25

<i>Caltha palustris</i> Marsh Marigold	F	1.0-2.0	1.0-1.25
<i>Camassia quamash</i> Blue Camas	F	1.5-2.0	0.5-0.75
<i>Camassia scilloides</i> Wild Hyacinth	F	1.0-2.0	0.75-1.0
<i>Campanula americana</i> Tall Bellflower	F	2.0-6.0	1.5-2.0
<i>Campanula rotundifolia</i> Harebell	F	1.0-2.0	0.75-1.0
<i>Castilleja coccinea</i> Indian Paintbrush	F	1.0-2.0	0.75-1.0??
<i>Caulophyllum thalictroides</i> Blue Cohosh	F	1.5-2.0	1.0-1.25
<i>Ceanothus americanus</i> New Jersey Tea	FWSH	2.0-3.0	2.0-3.0
<i>Cassia fasciculata</i> (<i>Chamaecrista f.</i>) Partridge Pea	F	1.0-2.5	1.25-1.5
<i>Chelone glabra</i> Turtlehead	F	2.0-3.0	1.5-2.0
<i>Chrysopsis camphorum</i> Golden Aster	F	1.0-1.5	1.0-1.25
<i>Clematis virginiana</i> Virgin's Bower	FHV	climbing to 12.0- 15.0	2.0+
<i>Cleome serrulata</i> Rocky Mountain Bee Plant	F	3.0-4.0	1.5-2.0
<i>Coreopsis grandiflora</i> Largeflower Tickseed	F	1.0-1.5	2.0-3.0
<i>Coreopsis lanceolata</i> Sand Coreopsis	F	1.5-2.5	1.0-1.5
<i>Coreopsis palmata</i> Prairie Coreopsis	F	1.0-1.5	1.5-2.0+
<i>Coreopsis tinctoria</i> Plains Coreopsis	F	2.0-3.0	1.25-1.5
<i>Coreopsis tripteris</i> Tall Coreopsis	F	3.0-8.0(10.0)	3.0-5.0
<i>Cosmos bipinnatus</i> Common Cosmos	F	3.0-6.0	1.25-1.5
<i>Cosmos sulphureus</i> Yellow Cosmos	F	2.0-3.0	1.25-1.5
<i>Crotalaria sagittalis</i> Rattlebox <i>Dalea candida</i> (<i>Petalostemum</i> c.) White Prairie Clover	F	1.0-1.5	0.75-1.0
<i>Dalea candida</i> (<i>Petalostemum</i> c.) White Prairie Clover	F	1.5-2.0	1.25-1.5
<i>Dalea purpurea</i> (<i>Petalostemum</i> p.) Purple Prairie Clover	F	1.0-3.0	1.25-1.5
<i>Delphinium ajacis</i> Rocket Larkspur	F	2.0-4.0	1.5-2.0

<i>Delphinium carolinianum</i> Wild Blue Larkspur	F	3.0-4.0	1.5-2.0
<i>Delphinium exaltatum</i> Tall Blue Larkspur	F	3.0-6.0	1.25-1.5
<i>Delphinium virescens</i> Prairie Larkspur	F	2.0-4.0	1.5-2.0
<i>Desmanthus illinoensis</i> Illinois Bundleflower	F	1.0-3.0	1.5-2.0
<i>Desmodium canadense</i> Showy Tick Trefoil	F	4.0-5.0	1.5-2.0
<i>Desmodium illinoiense</i> Illinois Ticktrefoil	F	3.0-6.0	1.5-2.5
<i>Desmodium paniculatum</i> Panicked Tick Trefoil	F	2.0-4.0	1.25-1.5
<i>Desmodium sessifolium</i> Sessile- leaf Tick Trefoil	F	2.0-4.0	1.25-1.5
<i>Dicentra cucullaria</i> Dutchman's Breeches	F	0.25-1.0	1.0-1.25
<i>Dodecatheon amethystinum</i> Jeweled Shooting-star	F	0.67-2.0	1.0-1.25
<i>Dodecatheon meadia</i> Shooting Star	F	1.0-2.0	1.25-1.5
<i>Echinacea angustifolia</i> Narrowleaf Purple Coneflower	F	1.0-2.0	1.0-1.5
<i>Echinacea atrorubens</i> Reflexed Purple Coneflower	F	2.0-4.0	1.25-1.5
<i>Echinacea pallida</i> Pale Purple Coneflower	F	2.0-4.0	1.25-1.5
<i>Echinacea paradoxa</i> yellow Coneflower	F	2.0-3.0	1.25-1.5
<i>Echinacea purpurea</i> Purple Coneflower	F	3.0-4.0	1.5-2.0
<i>Echinacea simulata</i> Wavy-leaf Purple Coneflower	F	2.0-3.0	0.67-1.5
<i>Echinacea tennesseensis</i> Tennessee Coneflower	F	2.0-3.0	1.0-1.25
<i>Epilobium angustifolium</i> Fireweed	F	3.0-6.0	1.5-2.0
<i>Eryngium yuccifolium</i> Rattlesnake Master	F	3.0-5.0	1.25-1.5
<i>Erysimum capitatum</i> Western Walflower	F	1.0-2.0	0.5-1.0
<i>Eupatorium altissimum</i> Tall Boneset	F	2.0-4.0	1.5-2.0
<i>Eupatorium coelestinum</i> Blue Mistflower	F	1.5-2.0	1.25-1.5
<i>Eupatorium maculatum</i> (<i>Eutrochium m.</i>) Spotted Joe Pye Weed	F	4.0-6.0	1.5-2.0

<i>Eupatorium perfoliatum</i> Thoroughwort	F	2.0-3.5	1.5-2.0
<i>Eupatorium purpureum</i> (<i>Eutrochium p.</i>) Purple Joe Pye Weed	F	5.0-8.0	1.5-2.0
<i>Euphorbia corollata</i> Flowering Spurge	F	1.5-3.0	1.5-2.0
<i>Filipendula rubra</i> Queen of the Prairie	F	3.5-5.0	1.5-2.0
<i>Gaillardia aristata</i> Perennial Blanket Flower	F	1.5-2.0	1.25-1.5
<i>Gaillardia pulchella</i> Annual Indian Blanket	F	1.5-2.0	1.25-1.5
<i>Galium boreale</i> Northern Bedstraw	F	0.5-2.0	1.5-2.0
<i>Gaura biennis</i> Biennial Gaura	F	3.0-6.0	1.5-2.0
<i>Gaura coccinea</i> Scarlet Gaura	F	2.0-3.0	1.0-2.0
<i>Gentiana andrewsii</i> Bottle Gentian	F	1.0-2.0	0.75-1.0
<i>Gentiana crinita</i> Fringed Gentian	F	0.67-1.0	1.0-1.25
<i>Gentiana flavida</i> Yellowish Gentian	F	1.0-2.0	0.75-1.0
<i>Gentiana puberulenta</i> Downy Gentian	F	0.5-1.5	1.0-1.25
<i>Gentiana quinquefolia</i> Stiff Gentian	F	0.67-1.25	1.0-1.25
<i>Geranium maculatum</i> Wild Geranium	F	1.0-1.5	1.5-2.0
<i>Geum canadense</i> Wood Avens	F	1.0-4.0	1.25-2.0
<i>Geum laciniatum trichocarpum</i> Rough Avens	F	1.5-3.0	1.5-2.0
<i>Geum triflorum</i> Prairie Smoke	F	0.5-1.0	1.0-1.25
<i>Glycyrrhiza lepidota</i> Wild Licorice	F	1.0-1.5	1.5-2.0
<i>Helenium autumnale</i> Sneezeweed	F	3.0-5.0	2.0-3.0
<i>Helianthus annuus</i> Annual Sunflower	F	3.0-8.0+	1.5-2.0
<i>Helianthus giganteus</i> Tall Sunflower	F	3.0-8.0+	1.5-2.0
<i>Helianthus grosseserratus</i> Saw Tooth Sunflower	F	3.0-10.0	2.0-3.0
<i>Helianthus laetiflorus</i> Showy Sunflower	F	3.0-5.0	2.0-3.0
<i>Helianthus maximilianii</i> Maximilian Sunflower	F	3.0-8.0	2.0-3.0
<i>Helianthus occidentalis</i> Western Sunflower	F	2.0-3.0	2.0-3.0

<i>Heliopsis helianthoides</i> False Sunflower	F	2.0-5.0	1.5-2.0
<i>Heuchera richardsonii</i> Prairie Alumroot	F	1.5-2.5	1.25-1.5
<i>Hibiscus lasiocarpus</i> Hairy Rose mallow	F	4.0-5.0	1.5-2.0
<i>Hibiscus laevis (militaris)</i> Halberd Leafed Rose Mallow	F	4.0-5.0	2.0-3.0
<i>Hibiscus palustris (moscheutos)</i> Swamp Rose Mallow	F	4.0-6.0	2.0-3.0
<i>Hydrastis canadensis</i> Goldenseal	F	0.67-1.0	0.75-1.25
<i>Hypericum punctatum</i> Dotted St. Johns Wort	F	1.0-2.0	1.0-1.25
<i>Hypericum pyramidatum</i> Great St. John'swort	F	3.0-6.0	1.5-2.0
<i>Hypoxis hirsutus</i> Yellow Star Grass	F	0.25-0.67	0.25-0.5
<i>Iliamna remota</i> Kankakee Mallow	F	3.0-6.0	1.5-2.0
<i>Impatiens capensis</i> Orange Jewelweed	F	2.0-4.0	1.5-2.0
<i>Impatiens pallida</i> Pale Jewelweed	F	3.5-6.0	2.0-3.0
<i>Iris missouriensis</i> Western Blue iris	F	1.0-3.0	1.25-1.5
<i>Iris versicolor</i> Northern Blue Flag Iris	F	2.0-3.0	1.5-2.0
<i>Iris virginica shrevei</i> Southern Blue Flag	F	2.0-3.0	1.5-2.0
<i>Jeffersonia diphylla</i> Twinleaf	F	0.5-1.0	0.75-1.0
<i>Kuhnia eupatorioides corymbulosa (Brickellia e. c.)</i> False Boneset	F	2.5-3.5'	2.0-3.0
<i>Lespedeza capitata</i> Roundhead Bush Clover	F	3.0-4.0	1.5-2.0
<i>Liatris aspera</i> Button Blazing Star	F	2.0-3.0	1.25-1.5
<i>Liatris cylindracea</i> Dwarf Blazingstar	F	0.67-1.0	1.0-1.25
<i>Liatris ligulistylus</i> Meadow Blazingstar	F	3.0-5.0	1.25-1.5
<i>Liatris punctata</i> Dotted Blazing Star	F	1.0-2.0	1.0-1.25
<i>Liatris pycnostachya</i> Prairie Blazingstar	F	2.5-4.0	1.5-2.0
<i>Liatris scariosa</i> Northern Blazing Star	F	1.5-2.0	1.25-1.5

<i>Liatris spicata</i> Spike Blazingstar	F	3.0-5.0	1.5-2.0
<i>Liatris squarrosa</i> Scaly Blazingstar	F	1.5-2.0	1.25-1.5
<i>Lilium superbum</i> Turk's Cap Lily	F	3.0-6.0	1.5-2.0
<i>Lithospermum caroliniense</i> Hairy Puccoon	F	0.5-1.5	1.0-1.25
<i>Lobelia cardinalis</i> Cardinal Flower	F	1.5-4.0	1.25-1.5
<i>Lobelia inflata</i> Indian Tobacco	F	0.5-2.0	0.5-0.75
<i>Lobelia siphilitica</i> Blue Lobelia	F	1.0-3.0	1.25-1.5
<i>Lobelia spicata</i> Pale Spiked Lobelia	F	1.0-2.0	1.0-1.5
<i>Ludwigia alternifolia</i> Seedbox	F	1.5-2.0	1.5-2.0
<i>Lupinus perennis</i> Lupine	F	1.0-2.0	1.5-2.0
<i>Lycopus americanus</i> Common Water Horehound	F	1.5-3.0	0.5-1.0
<i>Lythrum alatum</i> Winged Loosestrife	F	2.0-3.0	1.0-1.5
<i>Melanthium virginicum</i> Bunch-flower	F	3.0-5.0	1.5-2.0
<i>Mentha arvensis</i> Wild Mint	F	1.0-2.0	1.0-1.25
<i>Mertensia virginica</i> Virginia Bluebells	F	1.5-2.0	1.25-1.5
<i>Mimosa nuttallii</i> Sensitive briar	F	2.0-4.0	1.0-3.0
<i>Mimulus ringens</i> Monkey Flower	F	1.0-3.0	1.0-1.5
<i>Mitella diphylla</i> Bishop's Cap	F	0.5-1.5	0.75-1.25
<i>Monarda citriodora</i> Lemon Mint	F	2.0-3.0	1.5-2.0
<i>Monarda didyma</i> Oswego tea	F	2.0-4.0	1.0-1.5
<i>Monarda fistulosa</i> Bergamot	F	1.5-4.0	1.5-3.0
<i>Monarda punctata</i> Horse Mint	F	1.0-2.0	1.0-1.5
<i>Napaea dioica</i> Glade Mallow	F	6.0-8.0	1.25-1.5
<i>Nelumbo lutea</i> American Lotus	F	-2.0 to -3.0	1.5-2.0
<i>Nicotiana rustica</i> Indian Tobacco	F	2.0-3.0	1.0-1.5
<i>Oenothera biennis</i> Evening Primrose	F	2.0-5.0	1.0-1.5
<i>Oenothera macrocarpa</i> Missouri Primrose	F	0.5-1.0	1.0-1.25
<i>Onosmodium hispidissimum</i> Marble Seed	F	1.0-3.5	1.5-3.0
<i>Opuntia humifusa</i> Eastern Prickly pear	F	0.33-0.67	1.5-3.0
<i>Parnassia glauca</i> Grass of Parnassus	F	0.5-1.0	0.25-0.75

<i>Parthenium integrifolium</i> Wild Quinine	F	2.0-4.0	1.25-2.0
<i>Passiflora incarnata</i> Purple Passion Flower	F	12.0-20.0	
<i>Pedicularis canadensis</i> Prairie Betony	F	0.5-1.0	0.5-1.0
<i>Pedicularis lanceolata</i> Swamp Betony	F	1.0-3.0	1.0-1.5
<i>Peltandra virginica</i> Arrow Arum	F	1.0-3.0	1.5-2.5
<i>Penstemon calycococcus</i> Smooth Beardtongue	F	2.5-4.0	1.0-1.5
<i>Penstemon cobea</i> Showy Beardtongue	F	1.2-2.0	1.25-1.5
<i>Penstemon digitalis</i> Foxglove Beardtongue	F	2.0-4.0	1.0-2.0
<i>Penstemon grandiflorus</i> Large Flowered Beardtongue	F	1.5-3.0	1.0-2.0
<i>Penstemon hirsutus</i> Hairy Beardtongue	F	1.0-2.0	1.25-1.5
<i>Penstemon pallidus</i> Pale Beardtongue	F	0.67-1.5	0.33-0.67
<i>Penstemon tubaeflorus</i> Tube Penstemon	F	2.0-4.0	1.0-1.5
<i>Penthorum sedoides</i> Ditch Stonecrop	F	1.0-30	1.0-1.5
<i>Petalostemum candidum</i> (<i>Dalea c.</i>) White Prairie Clover	F	1.5-2.0	1.25-1.5
<i>Petalostemum purpureum</i> (<i>Dalea p.</i>) Purple Prairie Clover	F	1.0-3.0	1.25-1.5
<i>Phlox bifida</i> Sand Phlox	F	0.33-1.0	0.40-1.25
<i>Phlox divaricata</i> Wild Sweet Williams	F	0.5-1.5	1.0-1.5
<i>Phlox glaberrima interior</i> Marsh phlox	F	1.5-2.5	1.0-1.5
<i>Phlox maculata</i> Wild Sweet William	F	2.0-3.0	1.0-1.5
<i>Phlox paniculata</i> Garden Phlox	F	2.0-3.0	1.25-2.0
<i>Phlox pilosa</i> Prairie Phlox	F	1.0-2.0	1.0-1.5
<i>Physostegia angustifolia</i> Narrow-leaved Obedient Plant	F	3.0-5.0	1.5-2.0
<i>Physostegia virginiana</i> False Dragonhead	F	2.0-4.0	2.0-2.5
<i>Podophyllum peltatum</i> Mayapple	F	1.0-2.0	2.0-4.0
<i>Polemonium reptans</i> Jacob's Ladder	F	0.75-1.25	1-1.25

<i>Polygonatum canaliculatum</i>			
Smooth Solomon's Seal	F	1.0-3.0+	2.0-3.0
<i>Polymnia canadensis</i>			
Smallflowered Leafcup	F	3.0-4.0	1.5-2.0
<i>Polymnia uvedalia</i> Bear's Foot	F	6.0-10.0	2.0-4.0
<i>Pontederia cordata</i>			
Pickerelweed	F	1.0-2.0	1.5-3.0
<i>Prunella vulgaris lanceolata</i>			
Self Heal	F	0.5-1.5	1.0-2.0
<i>Psoralea onobrychis</i> French			
Grass	F	1.0-3.0	1.5-3.0
<i>Pycnanthemum pilosum</i> Hairy			
Mt. Mint	F	2.0-4.0	1.5-3.0
<i>Pycnanthemum virginianum</i>			
Common Mt Mint	F	1.5-3.0	1.5-2.0
<i>Ranunculus fascicularis</i> Early			
Buttercup	F	0.25-0.5	0.25-0.5
<i>Ranunculus rhomboideus</i>			
Prairie Buttercup	F	0.25-0.5	0.25-0.5
<i>Ratibida columnifera bicolor</i>			
Red Mexican Hat	F	1.0-1.5	0.5-1.5
<i>Ratibida columnifera</i> Yellow			
Upright Coneflower	F	2.0-3.0	1.25-1.5
<i>Rosa arkansana</i> Prairie Wild			
Rose	FWSH	1.5-3.5	1.5-3.0
<i>Rosa carolina</i> Pasture Rose	FWSH	1.0-3.0	1.5-3.0
<i>Rosa palustris</i> Swamp Rose	FWSH	3.0-5.0	2.0-3.0
<i>Rudbeckia amplexicaulis</i>			
Clasping Coneflower	F		
<i>Rudbeckia fulgida</i> Orange			
Coneflower	F	2.0-3.0	1.0-1.5
<i>Rudbeckia hirta</i> Black Eyed			
Susan	F	1.0-2.0	1.0-1.5
<i>Rudbeckia gloriosa</i> Gloriosa			
Daisy	F	2.0-3.0	1.5-2.0
<i>Rudbeckia laciniata</i> Green			
Coneflower	F	4.0-7.0	2.0-3.0
<i>Rudbeckia maxima</i> Great			
Coneflower	F	4.0-6.0	1.5-3.0
<i>Rudbeckia subtomentosa</i>			
Sweet Coneflower	F	2.0-4.0	1.25-1.5
<i>Rudbeckia triloba</i> Brown Eyed			
Susan	F	1.5-4.0	1.0-1.5
<i>Ruellia humilis</i> Hairy Wild			
Petunia	F	0.8-1.0	0.75-1.0
<i>Sagittaria latifolia</i> Duck Potato	F	2.0-3.0	1.5-2.0
<i>Salvia azurea</i> Blue Sage	F	2.0-3.0	1.0-2.0
<i>Salvia coccinea</i> Scarlet Sage	F	1.0-2.0	1.0-1.25
<i>Salvia farinacea</i> Mealy Sage	F	2.0-3.0	1.5-2.0

<i>Salvia lyrata</i> Lyre-leaf Sage	F	1.0-1.5	1.0-1.25
<i>Sanguinaria canadensis</i> Bloodroot	F	0.33-0.5	0.75-1.0
<i>Schrankia uncinata</i> Sensitive Plant	F	2.0-3.0	1.25-1.5
<i>Scrophularia marilandica</i> Late Figwort	F	3.0-5.0	1.5-2.0
<i>Scutellaria incana</i> Hoary Dog Skullcap	F	2.0-3.0	1.0-2.0
<i>Scutellaria lateriflora</i> Mad Dog Skullcap	F	1.0-3.0	1.25-1.5
<i>Sedum pulchellum</i> Widow's Cross	F	0.3-0.5	0.5-1.0
<i>Sedum ternatum</i> Wild Stonecrop	F	1.0-1.5	0.67-1.0
<i>Senecio aureus</i> Golden Ragwort	F	1.0-30	0.8-1.25
<i>Packera obovata</i> { <i>Senecio</i> <i>obovatus</i> } Round-leaved Ragwort	F	1.0-1.5	0.67-1.0
<i>Senna hebecarpa</i> Wild Senna	F	3.0-4.0	1.0-2.0
<i>Senna marilandica</i> Maryland Senna	F	3.0-4.0	1.0-2.0
<i>Silene armeria</i> Catchfly	F	3.0-4.0	1.25-1.5
<i>Silene nivea</i> Snow Champion	F	0.5-1.0	0.25-0.75
<i>Silene regia</i> Royal Catchfly	F	2.0-4.0	1.0-1.5
<i>Silene stellata</i> Starry Champion	F	1.0-2.0	1.0-1.5
<i>Silene virginica</i> Pink Fire	F	1.0-1.5	1.0-1.5
<i>Silphium integrifolium</i> Rosinweed	F	2.5-5.0	1.5-2.0
<i>Silphium laciniatum</i> Compass Plant	F	4.0-10.0	1.5-3.0
<i>Silphium perfoliatum</i> Cup Plant	F	3.0-8.0	2.0-2.5
<i>Silphium terebinthinaceum</i> Prairie Dock	F	4.0-8.0(10.0)	1.5-2.0
<i>Sisyrinchium angustifolium</i> Stout Blue-eyed Grass	F	0.25-1.0	0.5-1.0
<i>Sisyrinchium campestre</i> Prairie Blue Eyed Grass	F	0.5-1.0	0.75-1.0
<i>Sium suave</i> Tall Water Parsnip	F	2.0-6.0	2.0-3.0
<i>Solidago canadensis</i> Canada Goldenrod	F	2.0-5.0	2.0-3.0
<i>Solidago flexicaulis</i> Zigzag Goldenrod	F	1.0-2.0	0.8-1.25
<i>Solidago nemoralis</i> Oldfield Goldenrod	F	1.0-2.0	1.0-2.0

<i>Solidago ohioensis</i> (<i>Oligoneuron o.</i>) Ohio Goldenrod	F	2.0-3.0	1.0-1.5
<i>Solidago riddellii</i> (<i>Oligoneuron r.</i>) Riddell's Goldenrod	F	1.5-3.5	1.25-2.0
<i>Solidago rigida</i> (<i>Oligoneuron r.</i>) Stiff Goldenrod	F	2.0-6.0	1.25-2.0
<i>Solidago speciosa</i> Showy Goldenrod	F	1.5-3.0	1.5-2.0
<i>Stylophorum diphyllum</i> Celandine Poppy	F	1.0-1.5	1.5-2.0
<i>Taenidia integerrima</i> Yellow Pimpernel	F	1.0-3.0	1.0-1.5
<i>Talinum rugospermum</i> Fameflower	F	0.3-0.67	0.5-0.75
<i>Tephrosia virginiana</i> Goats Rue	F	0.67-2.5	1.25-1.5
<i>Teucrium canadense</i> Germander	F	2.0-3.0	1.5-2.0
<i>Thalictrum dasycarpum</i> Purple Meadow rue	F	4.0-5.0	1.25-1.5
<i>Thalictrum dioicum</i> Early Meadow Rue	F	0.7-2.0	1.5-2.0
<i>Tradescantia bracteata</i> Bracted Spiderwort	F	0.5-1.5	1.25-1.5
<i>Tradescantia ohiensis</i> Ohio Spiderwort	F	1.0-4.0	1.25-1.5
<i>Trillium grandiflorum</i> Large Flowered Trillium	F	0.8-1.0	1.0-1.25
<i>Verbena hastata</i> Blue Vervain	F	2.0-6.0	1.5-2.0
<i>Verbena stricta</i> Hoary Vervain	F	1.5-2.5	1.0-1.5
<i>Verbena urticifolia</i> White Vervain	F	2.0-5.0	1.25-2.0
<i>Verbesina (Actinomeris) alternifolia</i> Wingstem	F	3.0-6.0	1.5-2.5
<i>Vernonia fasciculata</i> Common Ironweed	F	3.0-6.0	1.25-2.0
<i>Veronicastrum virginicum</i> Culver's Physic	F	2.0-6.0	1.25-2.0
<i>Viola pedata</i> Birdsfoot Violet	F	0.25-0.5	0.25-0.75
<i>Viola pedatifida</i> Prairie Violet	F	0.25-0.5	0.5-0.75
<i>Yucca glauca</i> Soapweed	F	2.0-5.0	1.5-2.5
<i>Zigadenus elegans</i> White Camas	F	2.0-3.0	1.5-2.0
<i>Zizia aptera</i> Meadow Parsnip	F	1.0-3.0	1.25-1.5
<i>Zizia aurea</i> Golden Alexander	F	1.0-3.0	1.25-1.5
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<i>Andropogon gerardii</i> Big Bluestem	G	4.0-10.0	1.5-2.0
<i>Andropogon scoparius</i> (<i>Schizachyrium s.</i>) Little Bluestem	G	2.0-4.0	1.0-1.5
<i>Bouteloua curtipendula</i> Side Oats Gramma	G	1.5-2.5	1.25-1.5
<i>Bouteloua gracilis</i> Blue Gramma	G	0.5-2.0	1.0-1.25
<i>Bromus kalmii</i> Kalm's Brome	G	1.5-2.0	1.25-1.5
<i>Buchloe dactyloides</i> Buffalo Grass	G	0.33-1.0	0.5-1.5
<i>Calamagrostis canadensis</i> Blue Joint Grass	G	2.5-4.0	2.0-3.0+
<i>Carex bebbii</i> Bebb's Sedge	S	1.0-3.0+	1.25-2.0
<i>Carex bicknellii</i> Bicknell's Oval Sedge	S	1.5-2.5	1.0-1.5
<i>Carex brevior</i> "Shorter" Sedge	S	1.0-2.0	1.0-1.5
<i>Carex bromoides</i> Brome Sedge	S		0.8-1.25
<i>Carex cephalophora</i> Short- headed Bracted Sedge	S		0.8-1.25
<i>Carex comosa</i> Bottlebrush Sedge	S	1.5-4.0	0.7-2.0
<i>Carex cristatella</i> Crested Sedge	S	1.5-2.5	1.0-1.5
<i>Carex gravida</i> Long Awned Bracted Sedge	S	1.5-4.0+	1.0-1.5
<i>Carex hystericina</i> Porcupine Sedge	S	0.5-2.5	1.0-1.5
<i>Carex jamesii</i> Grass Sedge	S		0.75-1.0
<i>Carex lupulina</i> Hop Sedge	S	1.0-1.5	1.0-1.5
<i>Carex lurida</i> Lurid Sedge	S	1.0-3.0	1.0-1.25
<i>Carex muskingumensis</i> Palm Sedge	S		0.8-1.5
<i>Carex normalis</i> Normal Sedge	S	2.0-4.5	1.5-2.0
<i>Carex pennsylvanica</i> Penn or Common Oak Sedge	S	0.5-1.0	0.67-1.0
<i>Carex radiata</i> Straight-styled Wood Sedge	S		0.67-1.0
<i>Carex scoparia</i> Pointed Broom Sedge	S	0.8-2.5+	1.0-2.0
<i>Carex stipata</i> Awl-fruited Sedge	S	1.25-3.0	1.0-1.5
<i>Carex stricta</i> Strict Sedge	S	1.5-3.0	1.25-1.5
<i>Carex tribuloides</i> Awl-fruited Sedge	S	1.5-3.0	1.25-1.5
<i>Carex typhina</i> Common Cattail Sedge	S	1.0-1.5	1.0-1.5

<i>Carex utriculata</i> Yellow Lake Sedge	S	1.0-3.0	1.0-2.0
<i>Carex vulpinoidea</i> Fox Sedge	S	1.5-3.0	1.0-1.5
<i>Chasmanthium latifolium</i> River Oats	G	2.0-4.0	1.5-2.0
<i>Danthonia spicata</i> Poverty Oats Grass	G	0.75-2.0	0.25-0.75
<i>Diarrhena americana</i> Beak Grass	G	1.0-1.8	1.0-1.5
<i>Eleocharis palustris major</i> Spike Rush	S	0.5-2.0	1.0-2.0
<i>Elymus canadensis</i> Canada Wild Rye	G	2.0-6.0	1.5-2.0
<i>Elymus virginicus</i> Virginia Wild Rye	G	1.5-3.0(6.0)	1.5-2.0
<i>Eragrostis trichodes</i> Sand Love Grass	G	1.0-3.0	1.5-2.0
<i>Festuca obtusa</i> (F. subverticillata) Nodding Fescue	G	1.0-2.0	1.0-1.5
<i>Glyceria canadensis</i> Rattle Snake Grass	G	2.0-3.0	1.5-2.0
<i>Glyceria grandis</i> Reed Manna Grass	G	6.0-9.0	2.0-3.0
<i>Glyceria striata</i> Fowl Manna Grass	G	1.5-3.0	1.0-1.5
<i>Hordeum jubatum</i> Squirrel Tail Barley	G	0.75-2.0	1.0-2.0
<i>Hystrix patula</i> (Elymus h.) Bottlebrush Grass	G	1.0-3.0	1.0-1.5
<i>Juncus effusus</i> Soft Rush	R	1.5-2.5	1.0-1.5
<i>Juncus interior</i> Inland Rush	R	1.0-2.0	1.0-1.25
<i>Juncus tenuis</i> Slender Rush	R	0.5-1.5	1.0-1.25
<i>Juncus torreyi</i> Torrey's Rush	R	1.3-3.0	1.25-2.0
<i>Koeleria cristata</i> (macrantha) June Grass	G	0.5-2.0	1.0-1.5
<i>Leersia oryzoides</i> Rice Cut Grass	G	1.0-4.0'	1.5-2.0
<i>Muhlenbergia glomerata</i> Marsh Muhly	G	1.0-3.0	1.25-2.0
<i>Panicum virgatum</i> Prairie Switch Grass	G	2.0-6.0	1.5-2.0
<i>Schizachyrium scoparium</i> (Andropogon s.) Little Bluestem	G	2.0-4.0	1.0-1.5
<i>Scirpus atrovirens</i> Dark Green Rush	S	2.0-6.0	1.5-2.0
<i>Scirpus cyperinus</i> Wool Grass	S	3.0-5.0	1.5-2.0

<i>Scirpus pendulus (lineatus)</i> Red Bulrush	S	1.5-3.0	1.5-2.0
<i>Scirpus pungens</i> (<i>Schoenoplectus p.</i>) Chairmakers Rush	S	3.0-5.0	2.0-6.0
<i>Scirpus validus</i> (<i>Schoenoplectus</i> <i>tabernaemontani</i>) Great Bulrush	S	3.0-10.0	2.0-6.0
<i>Sorghastrum nutans</i> Indian Grass	G	4.0-7.0	1.5-2.0
<i>Sparganium eurycarpum</i> Bur Reed	GL	3.5-5.0	2.0-6.0
<i>Spartina pectinata</i> Cord Grass	G	3.0-6.0(7.0)	1.0-3.0
<i>Sporobolus asper</i> Rough Dropseed	G	1.5-3.0	1.0-1.5
<i>Sporobolus heterolepis</i> Northern Dropseed	G	2.0-3.0	1.0-1.5
<i>Stipa comata</i> Needle and Thread Grass	G	2.0-3.0	1.5-2.0
<i>Stipa spartea</i> Porcupine Grass	G	2.0-3.0	1.5-2.0
<i>Uniola (Chasmanthium)</i> <i>latifolia</i> Northern Sea Oats	G	2.0-4.0	1.5-2.0
<i>Zizania aquatica</i> Wild Rice	G	6.0-10.0	1.25-1.5(2.0)