



NANPS 2016 Seed Exchange Germination Requirements

<i>species</i>	<i>common name</i>	<i>code</i>	<i>species</i>	<i>common name</i>	<i>code</i>
Grasses & Sedges			Perennial Flowers		
<i>Andropogon gerardii</i>	big bluestem	A	<i>Desmodium glutinosum</i>	pointed-leaved tick-trefoil	B, K
<i>Bouteloua curtipendula</i>	side-oats grama	A	<i>Doellingeria umbellata</i>	flat-topped aster	B
<i>Carex muskingumensis</i>	palm sedge	A	<i>Echinacea purpurea</i>	purple coneflower	B
<i>Chasmanthium latifolium</i>	northern sea oats	A	<i>Erigeron philadelphicus</i>	fleabane	B
<i>Elymus hystrix</i>	bottlebrush grass	B	<i>Eupatorium maculatum</i>	spotted Joe Pye weed	B
<i>Panicum virgatum</i>	switch grass	A	<i>Eupatorium perfoliatum</i>	boneset	B
<i>Schizachyrium scoparium</i>	little bluestem	A	<i>Eupatorium rugosum</i>	white snakeroot	B
<i>Sorghastrum nutans</i>	Indian grass	B	<i>Euphorbia corollata</i>	flowering spurge	B
Perennial Flowers			<i>Eurybia divaricata</i>	white wood aster	B
<i>Actaea pachypoda</i>	white baneberry	B, G*	<i>Eutrochium dubium</i>	eastern Joe Pye weed	B
<i>Agastache foeniculum</i>	anise hyssop	A	<i>Eutrochium maculatum</i>	spotted Joe Pye weed	B
<i>Ageratina altissima</i>	white snakeroot	B	<i>Filipendula ulmaria</i>	meadowsweet	B, H
<i>Allium cernuum</i>	wild nodding onion	A	<i>Gentiana andrewsii</i>	closed bottle gentian	B, H
<i>Allium stellatum</i>	prairie/autumn onion	A Or B	<i>Helenium autumnale</i>	sneezeweed	A
<i>Anaphalis margaritacea</i>	pearly everlasting	A	<i>Helianthus divaricatus</i>	woodland sunflower	A
<i>Anemone canadensis</i>	Canada anemone	B	<i>Heliopsis helianthoides</i>	false sunflower	A
<i>Anemone patens</i>	pasque flower	B	<i>Hibiscus moscheutos</i>	swamp rose mallow	B, I
<i>Anemone riparia</i>	thimbleweed	B Or C	<i>Hydrophyllum virginianum</i>	Virginia waterleaf	B*
<i>Anemone virginiana</i>	tall thimbleweed	B	<i>Hypericum pyramidatum</i>	great St. John's wort	B, H
<i>Aquilegia canadensis</i>	wild columbine	B	<i>Lespedeza capitata</i>	roundheaded bush clover	B, I, K
<i>Aralia nudicaulis</i>	wild sarsaparilla	B	<i>Liatris ligulistylus</i>	meadow blazing star	B
<i>Aralia racemosa</i>	spikenard	B, G, I	<i>Liatris spicata</i>	dense blazing star	A Or B
<i>Asclepias incarnata</i>	swamp milkweed	B, H	<i>Lobelia cardinalis</i>	cardinal flower	A, H
<i>Asclepias syriaca</i>	common milkweed	B, H	<i>Lobelia inflata</i>	Indian tobacco	A
<i>Asclepias tuberosa</i>	butterfly milkweed	B, H	<i>Lobelia siphilitica</i>	blue lobelia	A, H
<i>Aster cordifolius</i>	heart leaved aster	B	<i>Lupinus perennis</i>	wild lupin	A, I
<i>Aster ericoides</i>	heath aster	B	<i>Lysimachia ciliata</i>	fringed loosestrife	B
<i>Aster laevis</i>	smooth aster	B	<i>Oenothera biennis</i>	evening primrose	A
<i>Aster macrophyllus</i>	large-leaved aster	B	<i>Penstemon digitalis</i>	foxglove beardtongue	B, H
<i>Aster novae-angliae</i>	New England aster	B	<i>Penstemon hirsutus</i>	hairy beardtongue	B, H
<i>Aster oolentangiense</i>	sky blue aster	B	<i>Phryma leptostachya</i>	American lopseed	B
<i>Baptisia australis</i>	blue false indigo	B, I	<i>Pycnanthemum tenuifolium</i>	slender mountain mint	A
<i>Blephilia ciliata</i>	downy wood mint	B, H	<i>Ratibida pinnata</i>	gray headed coneflower	A Or B
<i>Callirhoe involucrata</i>	poppy mallow	B, I	<i>Rudbeckia hirta</i>	black eyed susan	A Or B
<i>Chelone glabra</i>	turtlehead	B, H	<i>Rudbeckia laciniata</i>	green-headed coneflower	A Or B
<i>Cimicifuga</i>	bugbane	D	<i>Rudbeckia triloba</i>	brown eyed susan	A Or B
<i>Circaea alpina</i>	enchanter's nightshade	A Or B	<i>Silphium perfoliatum</i>	cup plant	B
<i>Coreopsis lanceolata</i>	lance-leaved coreopsis	A Or B	<i>Sisyrinchium montana</i>	blue-eyed grass	A Or C
<i>Coreopsis tripteris</i>	tall coreopsis	A Or B	<i>Solidago bicolor</i>	white goldenrod (silverrod)	B
<i>Dalea candida</i>	white prairie clover	A, I, K			
<i>Delphinium exaltatum</i>	tall wild larkspur	B			
<i>Desmodium canadense</i>	showy tick- trefoil	A, I, K			



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Perennial Flowers			Germination Codes		
<i>Solidago caesia</i>	blue-stemmed goldenrod	B	<p>* seed is hydrophillic, intolerant of dry storage.</p> <p>A seed will germinate within 4 weeks if sown at 70°F</p> <p>B seed will germinate upon being shifted to 70°F after 90-140 days of moist, cold stratification at 40°F.</p> <p>C seed germinates only after multiple cycles of warm and cold, typically 40°-70°-40°-70°F.</p> <p>D seed needs a period of warm, moist stratification followed by cold stratification and will germinate after being shifted back to warm, for example 70°-40°-70°F.</p> <p>G seed will not germinate in presence of chemical inhibitors.</p> <p>H seed requires light to germinate.</p> <p>I seed requires scarification because of an impermeable seed coat.</p> <p>J seed needs high humidity to germinate</p> <p>K seed germinates better with inoculant</p> <p>M moss germination: seed germinates best in the presence of both light and high atmospheric moisture as would be found on a damp mossy substrate in the wild.</p> <p>W wetland species: soil should be consistently wet</p>		
<i>Solidago flexicaulis</i>	zigzag goldenrod	B			
<i>Solidago nemoralis</i>	gray goldenrod	B			
<i>Solidago ohioensis</i>	Ohio goldenrod	B			
<i>Solidago ptarmicoides</i>	upland goldenrod	B			
<i>Solidago rigida</i>	stiff leaved goldenrod	B			
<i>Thalictrum polygamum</i>	tall meadow rue	B			
<i>Tradescantia virginiana</i>	Ohio spiderwort	B			
<i>Verbena hastata</i>	blue vervain	B, H			
<i>Verbesina alternifolia</i>	wingstem	B			
<i>Vernonia gigantea</i>	tall ironweed	B			
<i>Vernonia noveboracensis</i>	ironweed	B			
<i>Veronicastrum virginicum</i>	Culver's root	B, H*			
<i>Zizia aurea</i>	golden alexanders	B			
Shrubs					
<i>Cephalanthus occidentalis</i>	buttonbush	A, H			
<i>Hypericum prolificum</i>	shrubby St. John's-wort	A, H			
<i>Opuntia humifusa</i>	prickly pear	B, I			
<i>Physocarpus opulifolius</i>	ninebark	B, H			
<i>Rhus typhina</i>	staghorn sumac	B, I			
<i>Staphylea trifolia</i>	bladdernut	B Or C			
Trees					
<i>Aesculus glabra</i>	Ohio buckeye	B*			
<i>Catalpa speciosa</i>	northern catalpa	B			
<i>Celtis occidentalis</i>	hackberry	B, G, I			
<i>Celtis tenuifolia</i>	dwarf hackberry	B, G, I			
<i>Cercis canadensis</i>	eastern redbud	B, I			
<i>Cornus alternifolia</i>	alternate-leaved dogwood	D, G			
<i>Euonymus atropurpureus</i>	eastern wahoo	D			
<i>Gleditsia triacanthos</i>	honey locust	A, I			
<i>Juglans nigra</i>	black walnut	B			
<i>Larix laricina</i>	tamarack	B			
<i>Liriodendron tulipifera</i>	tulip tree	B, G*			
<i>Platanus occidentalis</i>	American sycamore	A Or B, H			
<i>Quercus rubra</i>	red oak	B			
Vines					
<i>Clematis virginiana</i>	virgin's bower	B*			
<i>Echinocystis lobata</i>	wild cucumber vine	B			