

## Seed Planning for Planting Schedule

Growing native plants from seed is extremely easy, but each species has specific requirements for the highest success rate. This guide is meant to be an extension and companion of the **Bona Terra Seed Growing Guide**.

The data set listed below is most relevant when applied using the techniques described in the **Bona Terra Seed Growing Guide**:

<https://bonaterradc.com/seed-growing-guide/?v=0b3b97fa6688>. This guide goes over the full process of growing native plants from seed, taking into account whether you're planting direct-to-ground or in containers, seed storage, watering, and includes different soil mixes.

Most native seeds require a cold stratification period— a period of being kept cold to simulate winter— that can vary from species to species. This guide is intended to simplify this process for homeowners and plant enthusiasts to help them plan out the best time to collect seeds, stratify them, and plant them throughout the year. Since the life cycle of native plants are, well, cyclical, please note that some of these times can overlap, so pay special attention to the **key** below.

### Glossary of Terms

Stratify/Stratification: a process that mimics natural conditions to help seeds break dormancy and germinate. Most native seeds have evolved to lay dormant in the soil over winter as a survival mechanism to prevent premature germination of the delicate plant material that can be damaged by frost. Because of this, the majority of these seeds need to have a cold moist period mimicked in order for them to germinate. See the **Bona Terra Seed Growing Guide** for stratification mixes and tips.

When to hit soil/plant: This is the time that seeds should be planted, either in containers or directly in the ground.

When to collect seeds: This is the ideal time to collect the seeds from your plants.

No information at this time: We are still collecting data about this species.

### Special Notes:

- For information about planting seeds of native trees, shrubs, and woodies, consult *Manual of Woody Landscape Plants: Their Identification, Ornamental Characteristics, Culture and Propagation and Uses* by Michael A. Dirr
- Ferns reproduce by spores, and are therefore not included in this guide.
- The information in this guide has been collected and used by Bona Terra, and is specific to the Washington, DC region. While some information listed may be broadly applicable, all of the information detailed in this guide is based on Bona Terra's environmental growing standards, which may differ from growers in other regions and other local growers using different nursery practices.



## Key

	Stratify			No information at this time
	Stratification/planting times overlap		NS	No cold stratification needed
	When to hit soil/plant		C10-120	Cold stratification needed. Number indicates the number of days seeds need to be stratified
	Seed collection/planting times overlap		I	This species is a legume and needs inoculation: this species have symbiotic relationships with mycorrhizae and/or bacteria that live in their roots and support the plants' growth. Seeds of legume species benefit from this relationship and need to have an inoculation of these microorganisms to thrive. You can purchase mycorrhizae on the internet or you can scoop a tablespoon of an existing plant of the same species and add it to your stratification mix.
	When to collect seeds		S	This species needs to have the seeds scarified: scratch the seed coat to allow moisture in
	Seed collection and stratification overlap			

Herbaceous Species															
Species	Common Name	Cold Strat	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Notes
Achillea millefolium LE	Yarrow	NS													
Ageratina altissima LE	White Snakeroot	C30/C60													
Agrimonia striata LE	Roadside Agrimony	NS													
Allium cernuum	Nodding Onion	C60													
Amsonia tabernaemontana var. salicifolia	Willow Bluestar	C60													
Antennaria neglecta LE	Field Pussytoes														Does not grow well from seed
Apocynum cannabinum	Dogbane	NS													
Aquilegia canadensis	Red Columbine	C60													
Asclepias incarnata	Swamp Milkweed	C30													
Asclepias syriaca LE	Common Milkweed	C30													
Asclepias tuberosa	Butterfly Milkweed	C30													
Asclepias verticillata	Whorled Milkweed	C30													



Baptisia alba	White Wild Indigo	C10 I S													Collect seeds, dry, freeze for 20 days before storing
Baptisia australis	Blue False Indigo	C10 I S													Collect seeds, dry, freeze for 20 days before storing
Baptisia australis var. minor	Dwarf Blue Indigo	C10 I S													Collect seeds, dry, freeze for 20 days before storing
Baptisia tinctoria	Yellow Wild Indigo	C10 I S													Collect seeds, dry, freeze for 20 days before storing
Bidens aristosa LE	Swamp Marigold	C60													
Blephilia hirsuta	Hairy Wood Mint	C60													
Boltonia asteroides	False Aster/Susquehanna Dolls Daisy	C30/C60													
Chamaecrista fasciculata LE	Partridge Pea	C10													
Chelone glabra	White Turtlehead	C90/C120													
Chrysopsis mariana LE	Maryland Goldenaster	C30													
Clinopodium vulgare LE	Wild Basil	C30													
Conoclinium coelestinum LE	Blue Mistflower	C60													
Coreopsis lanceolata	Lanceleaf Coreopsis	C30													
Coreopsis tripteris	Tall Coreopsis	C30/C60													
Desmodium canadense LE	Showy Ticktrefoil	C10 I S													
Echinacea purpurea	Purple Coneflower	NS													
Elephantopus tomentosus LE	Elephant's Foot	NS													
Eryngium yuccifolium	Rattlesnake Master	C60													
Eupatorium altissimum	Tall Boneset/Giant Ironweed	C60													



Eupatorium capillifolium LE	Dogfennel	C60	✓	✓	✓	✓	✓					✓	✓		
Eupatorium hyssopifolium LE	Hyssop-leaved Thoroughwort	C60	✓	✓	✓	✓	✓					✓	✓		
Eupatorium perfoliatum	Common Boneset	C30	✓	✓	✓	✓	✓					✓	✓		
Eupatorium rotundifolium LE	Roundleaf Thoroughwort	C60	✓	✓	✓	✓	✓					✓	✓		
Eupatorium serotinum LE	Late Boneset	C60	✓	✓	✓	✓	✓					✓	✓		
Euphorbia corollata	Flowering Spurge	C30		✓	✓	✓	✓					✓	✓	✓	
Eurybia divaricata	White Wood Aster	C30-60	✓	✓	✓	✓	✓						✓	✓	
Euthamia graminifolia	Flat-Top Goldenrod	C30/C60	✓	✓	✓	✓	✓					✓	✓	✓	
Eutrochium fistulosum LE	Hollow Joe Pye Weed	C60	✓	✓	✓	✓	✓					✓	✓	✓	
Eutrochium maculatum LE	Spotted Joe Pye Weed	C60	✓	✓	✓	✓	✓					✓	✓	✓	
Eutrochium purpureum LE	Purple JoePye Weed	C30		✓	✓	✓	✓					✓	✓	✓	
Filipendula rubra LE	Queen of the Prairie	C90	✓		✓	✓	✓					✓	✓	✓	
Gentiana andrewsii	Bottle Gentian	C60	✓	✓	✓	✓	✓					✓	✓	✓	
Helenium autumnale	Sneezeweed	NS			✓	✓	✓					✓	✓	✓	
Helianthus angustifolius	Narrowleaf Sunflower	C30		✓	✓	✓	✓								
Helianthus giganteus	Giant Sunflower	C30		✓	✓	✓	✓								
Heliopsis helianthoides	False Sunflower	C30		✓	✓	✓	✓								
Heuchera americana	Alum Root	C30		✓	✓	✓	✓								
Heuchera villosa	Hairy Alum Root	C30		✓	✓	✓	✓								
Hibiscus moscheutos LE	Swamp Rose Mallow	C10/C60	✓	✓	✓	✓	✓								
Collect seeds, dry, freeze for 20 days before storing															

Hypericum ascyron/Hypericum pyramidatum	Tall St. John's Wort	C60													
Hypericum punctatum LE	Spotted St. John's Wort	C60													
Impatiens capensis LE	Jewelweed/Touch-Me-Not														Best planted in soil in fall. Expect germination 1-2 years later
Impatiens pallida LE	Yellow Jewelweed														Best planted in soil in fall. Expect germination 1-2 years later
Iris versicolor	Northern Blue Flag Iris	C120													
Lespedeza capitata	Round-Headed Bush Clover	C10 I S													
Lespedeza virginica	Slender Bush Clover	C10 I S													
Liatris spicata	Dense Gayfeather, Marsh Blazing Star	C30													Collect seeds, dry, freeze for 20 days before storing
Liatris squarrosa	Scaly Blazing Star	C30													Collect seeds, dry, freeze for 20 days before storing
Lobelia cardinalis	Cardinal Flower	C60													
Lobelia inflata	Wild Tobacco	C60													
Lobelia puberula LE	Downy Lobelia	C60													
Lobelia siphilitica	Great Blue Lobelia	C60													
Ludwigia alternifolia LE	Seedbox	C60													
Mitchella repens LE	Partridgeberry														Collect berries July-January
Monarda fistulosa	Wild Bergamot	NS													
Monarda punctata	Spotted Beebalm	NS													
Oenothera biennis LE	Evening Primrose	NS													
Oligoneuron rigidum	Stiff Goldenrod	C60													
Packera aurea (same year)	Golden Ragwort	NS													



Packera aurea (stored seeds)	Golden Ragwort	C60													
Penstemon digitalis	Foxglove Beardtongue	C30													
Penstemon hirsutus	Hairy Beardtongue	C30													
Penstemon pallidus	Pale Beardtongue	C30													
Persicaria virginiana LE	Jumpseed	C60													
Phlox subulata LE	Moss Phlox	C60													
Physostegia virginiana	Obedient Plant	C60													
Prunella vulgaris LE	Self-Heal	C30													
Pycnanthemum incanum LE	Hoary Mountain Mint	NS													
Pycnanthemum muticum	Mountain Mint	NS													
Pycnanthemum tenuifolium	Slender Mountain Mint	NS													
Rhexia marilandica LE	Maryland Meadow Beauty	C60													
Rhexia virginica LE	Virginia Meadow Beauty	C60													
Rudbeckia fulgida	Orange Coneflower	C30													
Rudbeckia hirta	Black-Eyed Susan	C30													
Rudbeckia laciniata	Cutleaf Coneflower	C30													
Rudbeckia triloba	Brown-Eyed Susan	C30													
Ruellia caroliniensis LE	Carolina Wild Petunia														
Salvia lyrata	Lyre-Leaf Sage	NS													
Sedum glaucophyllum LE	Cliff Stonecrop														
Sedum ternatum	Woodland Stonecrop														





Thermopsis caroliniana	Carolina Lupine	C10 I S													
Tradescantia ohiensis	Ohio Spiderwort	C120													
Verbena stricta	Hoary Vervain	C30													
Verbena urticifolia	White Vervain	C60													
Verbesina alternifolia LE	Wingstem	C30													
Verbesina occidentalis LE	Maryland Gold Crown	C30													
Vernonia noveboracensis	New York Ironweed	C30													
Viola primulifolia LE	Primrose-Leaved Violet	C60													
Viola pubescens LE	Downy Yellow Violet	C60													
Viola sororia LE	Common Violet	C60													
Yucca filamentosa	Adam's Needle Yucca	C30													Collect seeds, dry, freeze for 20 days before storing
Grass and Sedge Species															
Species	Common Name	Cold Strat	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Notes
Andropogon gerardii	Big Bluestem	NS													
Andropogon glomeratus	Bushy Bluestem	C30													
Andropogon ternarius	Split-Beard Bluestem	C30													
Andropogon virginicus LE	Broom Sedge	C30													
Carex annectens	Yellowfruit Sedge	C60													
Carex eburnea LE	Bristleleaf Sedge	C60													
Carex frankii LE	Frank's Sedge	C60													

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native plants

Collect seeds, dry, freeze for 20 days before storing





Carex flaccosperma	Blue Wood Sedge	C60														
Carex lurida LE	Sallow Sedge	C60														
Carex pedunculata LE	Long-Stalked Sedge	C60														
Carex rosea LE	Rosy Sedge	C60														
Carex prairea	Prairie Sedge	C60														
Carex vulpinoidea	Fox Sedge	C60														
Chasmanthium latifolium	River Oats	C60														
Danthonia spicata LE	Poverty Oat Grass	NS														
Dichanthelium clandestinum LE	Deer-Tongue Grass	NS														
Elymus hystrix LE	Bottlebrush Grass	NS														
Elymus virginicus LE	Virginia Wild Rye	NS														
Eragrostis spectabilis	Purple Lovegrass	NS														
Juncus effusus	Soft Rush	C120														
Panicum anceps LE	Beaked Panicum Grass	C60														
Panicum virgatum	Switchgrass	NS														
Schizachyrium scoparium	Little Bluestem	NS														
Tridens flavus LE	Purpletop	C60														
Tripasum dactyloides LE	Eastern Gamagrass	C60														
<b>Vine Species</b>																
<b>Species</b>	<b>Common Name</b>	<b>Cold Strat</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>Aug</b>	<b>Sept</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Notes</b>	
Vitis riparis LE	River Grape	C45														

