



United States  
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# Forb SEEDLING IDENTIFICATION

Plant Materials Center  
Bismarck, ND



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## NOTE:

As leaves develop, their appearance may change.

The leaves of a seedling may have a different shape than leaves of the mature plant.

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# NEW ENGLAND ASTER

*Symphotrichum novae-angliae*

## Leaves

- Strongly clasp the stem
- Rough upper surface
- Spoon shaped



# PANICLED ASTER

*Symphotrichum lanceolatum*

White panicle aster

## Leaves

- Mostly hairless, hair on edges
- Toothless or widely spaced teeth
- Lance shaped, stalkless when mature



# SILKY SILVER ASTER

*Symphyotrichum sericeum*

## Leaves

- Toothless
- Stalkless when mature
- Long fine hairs
- Oblong



# HEATH ASTER

*Symphyotrichum ericoides*

## Leaves

- Narrow
- Hairy
- Toothless
- Impressed central vein





# SMOOTH BLUE ASTER

*Symphyotrichum laeve*

## Leaves

- Smooth
- Waxy
- Nearly toothless
- Alternate
- Clasp stem



# WILD BERGAMOT

*Monarda fistulosa*

## Leaves

- Opposite
- Coarsely toothed

## Stem

- Faint purple
- Oregano scented
- Square
- Reddish color



# BLACK-EYED SUSAN

*Rudbeckia hirta*

## Leaves

- Toothless or nearly so
- Alternately
- Densely hairy
- Long stalks
- Prominent mid-vein



# BLANKETFLOWER

*Gaillardia aristata*

## Leaves

- Densely hairy
- Toothed or toothless
- Variable shape





# DOTTED BLAZINGSTAR

*Liatrix punctata*

Dotted gayfeather

## Leaves

- Narrow
- Short white hairs around edges
- Dots of resin on both sides



# ROUGH BLAZINGSTAR

*Liatrix aspera*

Tall blazingstar, button blazingstar

## Leaves

- Blade-like
- Wider than other blazing stars
- Rough from short hairs
- Prominent central vein



# COMMON BONESET

*Eupatorium perfoliatum*

## Leaves

- Hairy
- Opposite
- Wrinkled
- Rounded teeth
- Joined at stem



# FALSE BONESET

*Brickellia eupatorioides*

## Leaves

- Alternate
- Dotted glands on underside
- Coarse toothed
- Variously hairy
- Single prominent vein





# BREADROOT SCURFPEA

*Pediomelum esculentum*

Indian breadroot

## Leaves

- Palmately compound
- Five leaflets

## Stem

- Leaflets narrow at base
- Hairy underside
- Densely hairy



# CANADA MILKVETCH

*Astragalus canadensis*

## Leaves

- Compound
- First leaflets round
- Blunt point at tip
- Appendage at base of each leaf
- Hairs on leaflet margins



# COLUMBINE

*Aquilegia canadensis*

Red columbine, wild columbine

## Leaves

- Compound
- Groups of three leaflets

## Stem

- Slightly hairy



## NARROW LEAVED CONEFLOWER

*Echinacea angustifolia*

Black samson, narrow leaved purple coneflower

### Leaves

- Mostly basal
- Long, narrow
- Toothless
- Hairy, rough
- Three distinct veins



# YELLOW PRAIRIE CONEFLOWER

*Ratibida columnifera*

## Leaves

- Softly to coarsely hairy
- Alternate
- Pinnately divided when mature
- Long stalks





# PURPLE CONEFLOWER

*Echinacea purpurea*

Eastern purple coneflower

## Leaves

- Serrated edges
- Long stalks
- Three to five veins
- Smooth or hairy



# GRAYHEADED CONEFLOWER

*Ratibida pinnata*

## Leaves

- Short hairs, rough
- Lobed
- Long stalks on lower leaves



# CUPPLANT

*Silphium perfoliatum*

## Leaves

- Coarse, thick, rigid
- Stiff hairs

## Stem

- Opposite, joined to square stem
- Square





# EVENING PRIMROSE

*Oenothera biennis*

## Leaves

- Oval to lance shaped
- Hairless or fine hairs
- Prominent mid-vein
- Short or lacking stalks



# LEWIS BLUE FLAX

*Linum lewisii*

Wild blue flax

## Leaves

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- Alternate, appear whorled
- Stalkless
- Toothless
- Hairless, smooth
- Narrow



# MISSOURI GOLDENROD

*Solidago missouriensis*

## Leaves

- Alternate
- Hairless except edges
- Winged stalk
- Three prominent parallel veins



# STIFF GOLDENROD

*Oligoneuron rigidum*

## Leaves

- Gray-green
- Oval to egg shaped
- Margins may have teeth
- Stifly rigid
- Rough, bristly hairs



# HEARTLEAF ALEXANDER

*Zizia aptera*

Heart-leaved golden alexanders

## Leaves

- Long stalk
- Purple spot at leaf/stalk junction
- Heart shaped
- Toothed





# GIANT BLUE HYSSOP

*Agastache foeniculum*

Anise hyssop, fragrant giant hyssop

## Leaves

- Round based
- Crinkled

## Stem

- Coarsely toothed
- Anise scent
- Square



# ILLINOIS BUNDLEFLOWER

*Desmanthus illinoensis*

## Leaves

- Compound
- Paired leaflets

## Stem

- Short hairs on edges
- Grooved
- Mostly hairless



# BLUE WILD INDIGO

*Baptisia australis*

## Leaves

- Alternate
- Three leaflets/  
leaf
- Toothless
- Oblong to  
oval





# IRONWEED

*Veronia fasciculata*

## Leaves

- Stalkless
- Sharp pointed teeth
- Mostly hairless
- Pitted on underside



# JOE-PYE WEED

*Eutrochium maculatum*

## Leaves

- Coarsely toothed
- Whorled, short stalk
- Variously hairy
- Green purplish, purple spots



# LEADPLANT

*Amorpha canescens*

## Leaves

- Compound
- Fine hairs
- Gray-green color
- Oval to egg shaped leaflets



# WILD LUPINE

*Lupinus perennis*

## Leaves

- Palmately compound
- Leaflets radiate from center
- Leaflets taper at base
- Hairy



# TALL MEADOW RUE

*Thalictrum dasycarpum*

Purple meadow rue

## Leaves

- Compound
- Shallow lobed
- Hairy underside
- Assymetrical, rounded leaflet base





# BUTTERFLY MILKWEED

*Asclepias tuberosa*

## Leaves

- Opposite
- Bluntly rounded tips
- Hairy
- Long
- Toothless
- No milky sap



# COMMON MILKWEED

*Asclepias syriaca*

## Leaves

- Opposite
- Prominent midrib
- Underside hairy
- Oval, wide
- Side veins not to edge, connected
- Milky sap



# SHOWY MILKWEED

*Asclepias speciosa*

## Leaves

- Oval, broad base
- Opposite
- Finely pointed leaf tip
- Reddish midvein
- Hairy
- Milky sap
- Wider than swamp milk weed when mature





# SWAMP MILKWEED

*Asclepias incarnata*

## Leaves

- Lance shaped, narrow
- Opposite
- Mostly hairless
- Toothless
- Milky sap
- Short stalks



# WHORLED MILKWEED

*Asclepias verticillata*

## Leaves

- Very narrow
- Prominent central vein

## Stem

- Whorled with three to six leaves
- Slender with fine hairs



# PRAIRIE ONION

*Allium stellatum*

## Leaves

- Narrow, grass-like
- Hairless
- Onion scent



# PARTRIDGE PEA

*Chamaecrista fasciculata*

Showy partridge pea

## Leaves

- Compound
- Alternate
- Toothless
- Leaflet tip pointed
- Oblong leaflets, minutely hairy
- Appendages at stem junction
- Sensitive to touch



# SHELL-LEAF PENSTEMON

*Penstemon grandiflorus*

Large beardtongue

## Leaves

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- Stalkless, claspig stem
- Opposite
- Waxy, bluish





# PLAINS COREOPSIS

*Coreopsis tinctoria*

Golden tickseed

## Leaves

- Smooth
- Finely divided
- Opposite

Annual species in Northern Great Plains



# PRAIRIE SMOKE

*Geum triflorum*

## Leaves

- Compound
- Hairy
- Wedge-shaped leaflets
- Coarse notches



# PURPLE PRAIRIECLOVER

*Dalea purpurea*

## Leaves

- Compound
- Small, linear shape
- Alternate
- Closely arranged



# WHITE PRAIRIECLOVER

*Dalea candida*

## Leaves

- Compound
- Pinnate, odd number leaflets
- Larger than purple prairieclover
- Glands on underside



# ROCKY MOUNTAIN BEEPLANT

*Cleome serrulata*

## Leaves

- Compound, leaflets three
- Pointed tips
- Toothless
- Repugnant odor





# ROUNDHEAD BUSHCLOVER

*Lespedeza capitata*

## Leaves

- Compound
- Fine hairs
- Short stalk to stalkless
- Toothless
- Round or pointed tip



# SCARLET GLOBEMALLOW

*Sphaeralcea coccinea*

## Leaves

- Alternate
- Deeply three lobed
- Silvery green color
- Short, dense hairs
- Dotted appearance



# SHOWY TICK TREFOIL

*Desmodium canadense*

Canada tickclover

## Leaves

- Compound, leaflets in three's
- Alternate
- Hairy
- Appendages at base of stalk



# SNEEZEWEED

*Helenium autumnale*

## Leaves

- Winged down stem
- Hairy
- Widely spaced teeth



# FALSE SUNFLOWER

*Heliopsis helianthoides*

Common oxeye

## Leaves

- Opposite
- Pointed tip
- Serrated, wavy edged
- Rough, short hairs





# MAXIMILIAN SUNFLOWER

*Helianthus maximiliani*

## Leaves

- Long, narrow
- Alternate
- Fold at center vein
- Base tapered
- Rough, hairy
- Mostly toothless



# STIFF SUNFLOWER

*Helianthus pauciflorus*

## Leaves

- Opposite
- Short hairs
- Spear shaped
- Pair of veins parallel to center vein
- Widely spaced teeth



# BLUE VERVAIN

*Verbena hastata*

## Leaves

- Coarsely toothed
- Short stalked

## Stem

- Rough
- Finely hairy underside
- Square
- Reddish color



# HOARY VERVAIN

*Verbena stricta*

## Leaves

- Hairy
- Oval shaped

## Stem

- Coarsely toothed
- Stalkless
- Square
- Reddish





# AMERICAN VETCH

*Vicia americana*

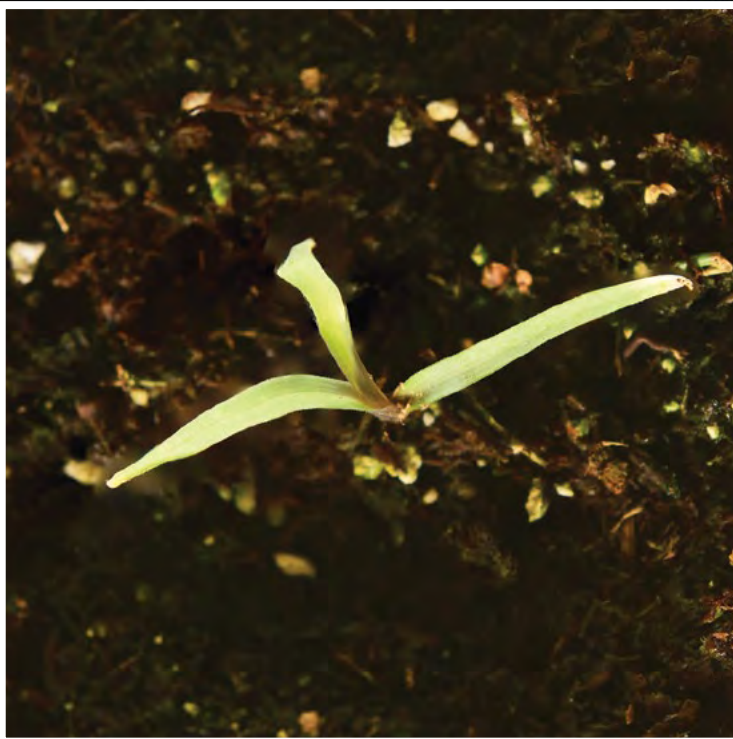
## Leaves

- Compound
- Elliptical shape
- Toothless

## Stem

- Hairless
- Appendage at base of stalk
- Viney
- Hairless





# WESTERN SPIDERWORT

*Tradescantia occidentalis*

Prairie spiderwort

## Leaves

- Long, narrow
- Stiff
- Toothless
- No stalks
- Fold at center vein



# WESTERN YARROW

*Achillea millefolium*

## Leaves

- Finely divided, fernlike
- Narrow
- May have fine hairs





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