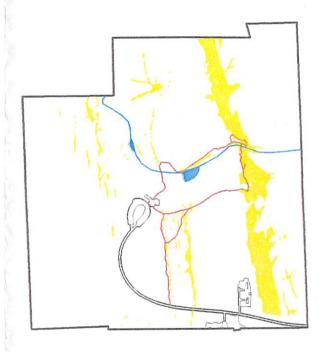
## Pipestone National Park Service U.S. Department of the Interior Pipestone National Monument



## Flora of the Sioux Quartzite Prairie

Sioux quartzite prairie is considered by the Nature Conservancy a unique and rare habitat, limited to a small region in the upper Midwest. The Nature Conservancy cites Pipestone National Monument as having one of the few intact examples of this — distinct geologic feature—the Sioux quartzite formation.

Established in 1937, Pipestone National Monument comprises 301 acres on the Prairie Coteau. Sioux quartzite's extreme resistance to erosion ensured the survival of the Sioux quartzite outcroppings from glaciers, wind, and water. Most of the plants listed may be sighted as you walk the 3/4 mile circle trail that begins in the visitor center. Parts of the Sioux quartzite can be viewed from the Oracle and the trail running along the cliffs by the Nicollet marker. The Sioux-quartzite prairie is a sensitive and fragile habitat, so please stay on the trail to avoid disturbing and damaging the community.



Sioux quartzite outcrops are found as narrow angular ridges forming a prominent escarpment running at a slight southeast-northwest angle near the eastern park boundary. Smaller outcrops are located in the southern part of the monument and along Pipestone Creek. This unique geologic feature provides habitat for a variety of species. On the surface of and between the quartzite rock formations, small pools form during the spring season, creating habitat for aquatic and semi-aquatic plant species. Drought resistant plants like cactus and prairie grasses occupy areas of shallow soil among the rock outcrops. One hundred fifty-four species of plants have been recorded on the rock outcrop formations. Of those 154 species, 133 are native species and 21 are exotic and/or invasive species.

## Native Plant Species

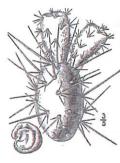
Sideoats grama (Bouteloua curtipendula)
Often found on rocky, open slopes, sideoats grama is a medium-size perennial bunchgrass. Ranging from 15 to 30 inches in height, this is the largest grama grass. Blue-green coloration turns purplish in spring and reddish brown in the fall. Blooms in mid-spring.





White heath aster (Aster ericoides)
This white-flowered plant is a source of nectar and shelter for butterflies. It is a perennial with an extensive root system and can grow to 0.5 to 1 meter tall. One plant can produce up to 100 flower heads between August and November.

Brittle prickly pear (Opuntia fragilis) This cactus grows to a height of ten centimeters and produces yellow flowers in the late spring. The plant's joints are fragile and detached stem segments aid in plant dispersal. The spines are taller on older segments.





Disk waterhyssop (Bacopa rotundifolia)
This aquatic plant is found in the Sioux quartzite vernal pools in the spring and summer. You can find the yellow-throated white flowers in mid-spring. The leaves are round, one to three centimeters wide, with six longitudinal veins.

Western snowberry (Symphoricarpos occidentalis) The woody plant is a native member of the honeysuckle family. The stems are hollow and form thickets. White flowers are bell-shaped and are visible in the late spring. The berries are spherical, white, and form in the summer



## Exotic, Invasive Plant Species



Cheatgrass (Bromus tectorum)
This exotic, invasive grass has infested over 100 million acres in western states. The seeds have barbed awns which stick to fur or clothing. The plant is highly resistant to fire, and it's extremely flammable foliage can alter the natural fire regime

Common buckthorn (*Rhamnus cathartica*) Common buckthorn is an exotic, invasive woody plant originally from Europe. There are separate male and female plants, the later produces a black fruit which causes diarrhea in birds. The plant is especially invasive because it grows virtually anywhere and it leafs out before native plants.





Field bindweed (Convulvulus arvensis) This climbing or creeping herbaceous plant is exotic and invasive. The plant forms dense mats which crowd out native plants and crops, causing hundreds of millions of dollars worth of damage each year. The flowers are white and trumpet shaped. Arrowhead-shaped leaves are two to five centimeters long.

Sweetclover (Melilotus officicinalis or alba) This biennial, exotic, invasive legume grows to four to six feet tall. Flowers are white or yellow and very fragrant. The plant is a major source of nectar for the apiculture. Sweetclover is drought resistant and produces large amounts of seed, resulting in a very invasive weed.



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Plant Checklist Helpful Characteristics:		Schizachyrium scoparium		SF	Draba reptans	Carolina draba	SS W	Senecio integerrimus	lambstongue ragwort	SF Y	
Season occurrence: SS = flowering spring/summer		Setria viridis	green bristlegrass	SFI	Erigeron strigosus	prairie fleabane	SF W	Senecio plattensis	prairie groundsel	SS Y	
SF = flowering summer/fall		Sorghastrum nutans	indiangrass	SF	Erysimum cheiranthoides	wormseed wallflower	SS I Y	Silene antirrhina	sleepy silene	SS W	
I = Introduced species		Spartina pectinata	prairie cordgrass	SF	Euphorbia cyathophoa	fire on the mountain	SF G	Solidago missouriensis	Missouri goldenrod	SF Y	
* = Aquatic/semi-aquatic		Sporobolus asper	composite dropseed	SF	Euphorbia esula	leafy spurge	SS I G	Solidago nemoralis	gray goldenrod	SF Y	
	species		Sporobolus heterolepis	prairie dropseed	SF	Euphorbia spathulata	warty spurge	SS G	Talinum parviflorum	sunbright	SS K
			Sporobolus vaginiflorus	poverty dropseed	SS	Gallium aparine	stickywilly	SS W	Taraacum officinale	common dandelion	SSIY
Flower (if present)	Flower (if present) Coloration		Stipa comate	needle and thread	SS	Gernaium carolinianum	Carolina geranium	SS K	Tradescantia braceata	longbract spiderwort	- SS V
B = Blue G = Green Y = Yellow		Stipa spartea	porcupinegrass	SS	Geum triflorum	old man's whiskers	SS K	Tragopogon dubius	goat's bear	SSI	
B = Blue	= Green Y = Yel		Stipa viridula	green needlegrass	SS	Grindeila squarrosa	curlycup gumweed	SF \	Trichostema brachiatum	fluxweed	SS B
K = Pink $P =$	= Purple W = W1	nite		Forbs		Hedeoma hispida	rough false pennyroyal	SS B	Veronica arvensis	corn speedwell	SS B
			A . L . W		1.1	Helianthus maximillani	Maximillian sunflower	SF \	Veronica peregrina	neckweed	SS W
V :	= Violet		Achillea millefolium	common yarrow	SSIW	Helianthus pauciflorus	stiff sunflower	SF \	Viola pedatifida	prairie violet	SS V
Scientific Name	Scientific NI		Allium stellatum	autumn onion	SS K	Heuchera richardsonii	Richardson's alumroot	SS G	Viola pratincola	northern bog violet	SS V
Scientific Name Common Name Details		Ambrosia artemisifolia	annual ragweed	SF G	Lactuca tatarica	blue lettuce	SF B	Agustic	Sami Aguatia		
Grasses		Ambrosia psilostachya	Cuman ragweed	SF G	Lappula occidentalis	flatspine stickweed	SS B		Semi-Aquatic	3.	
Agrostis scabra	rough bentgrass	SS	Amorpha canescens	lead plant	SS P	Lappula squarrosa	European stickweed	SS B	Bacopa rotundifolia	disk waterhyssop	SS * W
Alopecurus caroliniarus	Carolina foxtail	SF *	Amorpha fruticosa	desert false indigo	SS P	Lepidium campestre	field pepperweed	SSIW	Callitriche palustris	vernal water-starwort	SF * W
Andropogon gerardii	big bluestem	SF	Androsace occidentalis	western rockjasmine	SS W	Lepidium densiflorum	common pepperweed	SS W	Gratiola neglecta	clammy hedgehyssop	SS * W
Aristida basiramea	forked threeawn	SF	Anemone caroliniana	Carolina anemone	SS W	Linum sulcatum	groved flax	SS Y	Heteranthera limosa	blue mudplantain	SS * Y
Aristida dichotoma	churchmouse threeaw		Antennaria neglecta	field pussytoes	SS W	Lomatium orientale	Northern Idaho biscuitroot	SS W	Limosella aquatica	water mudwort	SF * W
Beckmannia szigachne			Arabis hirsute	hairy rockcress	SS W	Lotus unifoliatus	American bird's-foot trefoil	SS W	Marsilea vestita	hairy waterclover	SF * W
Bouteloua curtipendula	American sloughgrass	SF *	Artemisia campestris	field sagewort	SF 🐧	Medicago lupulina	black medick	SSIV	Myosurus minimus	tiny mousetail	SF * )
Bouteloua gracilis	sideoats grama	SF	Artemisia frigid	prairie sagewort	SF Y	Melilotus officinalis	yellow sweetclover	SS I Y/W	Woo	dy Plants	
Donielona gracius											
Bouteloug himsute	blue grama	SF	Artemisia ludoviciana	white sagebrush	SF Y	Mirabilis hirsute	hairy flour o'clock	SS K		9	SS G
Bouteloua hirsute	hairy grama	SS	Asclepias syriaca	white sagebrush common milkweed	SS P	Mirabilis hirsute Mirabilis nyctaginea	hairy flour o'clock heartleaf four o'clock	SS K	Parthenocissus vitacea	woodbine	SS G
Bromus inermis	hairy grama smooth brome	SS SS I	Asclepias syriaca Asclepias verticillata	common milkweed whorled milkweed					Parthenocissus vitacea prunus Americana	woodbine American plum	SS W
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