
A CHECKLIST OF THE FLORA

OF

EL MALPAIS NATIONAL MONUMENT AND
NATIONAL CONSERVATION AREA

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FIFTY CENTS



NEW MEXICO

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The El Malpais National Monument and National Conservation Area, over 376,000 acres in size, is best known for its geologic and volcanic formations. Surprisingly, the area also hosts an abundant variety of plant species. This listing is by no means complete due to the area's newly established designation as National Monument and National Conservation Area. Bureau of Land Management range studies, Cibola County soil studies, and Dr. Alton Lindsey's "Vegetation and Habitats in a Southwestern Volcanic Area" were used to compile this list. We welcome you to use the comment section on the back page to assist us in the continuous revision of this checklist.

The dominant vegetative type classes used for the El Malpais area are as follows:

Lava: This class is not bare lava but is characterized by ponderosa pine, pinyon pine, juniper species and shrubs scattered over the surface. On the lava, trees tend to be stunted.

Grass/shrub: Characterized by blue grama in sod habit interspersed with forbs, mixed grasses, and shrubs.

Shrub/conifer: This class is typified by open mixed conifer with a grass, shrub understory. Open shrub grass meadows intersperse with the mixed conifer areas forming a mosaic. Elevations start at 6,800 feet advancing to over 8,000 feet.

Mixed conifer: Very similar to the shrub/conifer class but the areas covered by trees are proportionately thicker and larger than the small meadows interspersed between tree patches.

Pinyon/juniper woodland: Characterized by a thick growth of mature to nearly decayed trees. This class is patchy with very small areas represented in the area.

Deciduous: Characterized by stands of oaks, and groves of aspens. Like the pinyon/juniper class, this class represents a very small area.

Ponderosa parkland: This class is typified by large mature (over 50 years old) ponderosa pines standing widely separated in grassy meadows.

LICHENS, MOSSES AND FERNS

Acarospora evoluta	yellow lichen
Amblystegiella sprucei	moss
Anaptychia mexicana	lichen
Brachythecium collinum	moss
Ceratodan purpureus	moss
Cheilanthes feei	fern
Dicranum rhabdocartum	moss
Drepanocladus uncinatus	moss
Gasparrinia elegans var. brachyloba	orange lichen
Homomallium incurvatum	arctic alpine moss
Hypnum cupressiforme	moss
Hypnum revolutum	moss
Marchantia polymorpha	liverwort
Mnium arizonicum	moss
Neckera neomexicana	moss
Orthotrichum anomalum	moss
Paraleucobryum enerve	moss
Parmelia canina	lichen
Peltigera canina	lichen
Physcia pulverulenta	lichen
Pohlia wahlenbergii	moss
Protococcus viridis	green algae
Pseudoleskea arizonae	moss
Pteridium aquilinum	bracken fern
P. coloradensis	lichen
P. cruda	moss
P. longifolium	moss
Reboulia hemisphaerica	liverwort
Sphaerella lacustris	green algae
Stichococcus bacillaris	green algae
S. subtilis	green algae
Tortula ruralis	moss
Tortella tortuosa	moss

The above plant species can be found on the Bandera lava tube system.

Observer: _____ Date: _____

Address: _____

Locality of plant: _____

Remarks: _____

Please help us out! If you would like to report any species not mentioned on this list, please contact:

El Malpais National Monument/National Conservation Area
P.O. Box 939
Grants, New Mexico 87020



Southwest Parks and Monuments Association was founded in 1938 to aid and promote the educational and scientific activities of the National Park Service. As a nonprofit organization authorized by Congress, it makes interpretive material available to park visitors by sale or free distribution. All net proceeds support the interpretive and research programs of the National Park Service.

GRASSES

GRAMINEAE (Grass Family)

Agropyron smithii	Western wheatgrass
Andropogon gerardi	Big bluestem
Andropogon scoparius	Little bluestem
Boutelia curtipendula	Sideoats grama
Boutelia eriopoda	Black grama
Boutelia gracilis	Blue grama
Carex spp.	Sedges
Ceanothus fendleri	Buckbrush
Distichlis stricta	Inland saltgrass
Festuca arizonica	Arizona fescue
Hilaria jamesii	Galleta
Koeleria cristata	Junegrass
Lycurus phleoides	Wolftail
Muhlenbergia montana	Mountain muhly
Muhlenbergia torreyi	Ring muhly
Nolina spp.	Beargrass or Sacahuista
Oryzopsis hymenoides	Indian ricegrass
Piptochaetium fimbriatum	Pinyon ricegrass
Poa fendleriana	Muttongrass
Poa pratensis	Kentucky bluegrass
Sitanion hystrix	Bottlebrush squirreltail
Sporobolus airoides	Alkali sacaton
Sporobolus contractus	Spike dropseed
Sporobolus cryptandrus	Sand dropseed
Stipa neomexicana	New Mexico feathergrass

TREES AND SHRUBS

PINACEAE (Pine Family)

Pinus edulis	Pinyon pine
Pinus ponderosa	Ponderosa pine
Pseudotsuga menziesii	Douglas-fir

CUPRESSACEAE (Cypress Family)

Juniperous scopulorum	Rocky Mountain juniper
Juniperous monosperma	One-seed juniper
Juniperous osteosperma	Utah juniper
Juniperous deppeana	Alligator juniper

LILIACEAE (Lily Family)

Yucca baccata	Banana yucca
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SALICACEAE (Willow Family)

Populus tremuloides	Quaking aspen
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FAGACEAE (Beech Family)

Quercus gambelli	Gambel oak
Quercus turbinella	Shrub Live oak
Quercus spp.	oaks

ROSACEAE (Rose Family)

Cercocarpus montanus	Mountain-mahogany
Fallugia paradoxa	Apache-plume
Physocarpus monogynus	Mountain ninebark
Rubus spp.	Raspberry

ANACARDIACEAE (Cashew or Sumac Family)

Rhus trilobata var anisophylla	Squawbush or skunkbush sumac
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OLEACEAE (Olive Family)

Forestiera neomexicana	New Mexican forestiera
Fraxinus cuspidata var macropetala	Fragrant ash

TAMARICACEAE (Tamarisk Family)

Tamarix pentandra	Tamarisk or salt cedar
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HERBACEOUS PLANTS
AND WILDFLOWERS

CHENOPODIACEAE (Goosefoot Family)

Atriplex confertifolia	Shadscale
Atriplex canescens	Four-wing saltbush
Eurotia lanata	Winter-fat
Sarcobatus vermiculatus	Black greasewood

AMARYLLIDACEAE (Amaryllis Family)

Allium cernuum	Nodding onion
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POLYGONACEAE (Buckwheat Family)

Eriogonum spp.	Eriogonum
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CAPPARIDACEAE (Caper Family)

Cleome serrulata	Rocky Mountain Bee plant
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CRUCIFERAE (Mustard Family)

Arabis fendeleri	Rock cress
Dithyrea wizlizeni	Spectaclepod
Erysimum spp.	Wallflower species
Lepidium montanum	Narrow-leaved peppergrass
Physaria spp.	Twinpod species

NYCTAGINACEAE (Four o'Clock Family)

Mirabilis spp.	Four o'Clock species
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ONAGRACEAE (Evening Primrose Family)

Oenothera spp.	Primrose species
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LEGUMINOSAE (Pea Family)

Astragalus spp.	Locoweed species
Lotus wrightii	Wright deervetch
Lupinus spp.	Lupine species
Medicago spp.	Yellow clover species

PORTULACACEAE (Purslane Family)

Portulaca spp.	Purslane species
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MALVACEAE (Mallow Family)

Sphaeralcea spp.	Globemallow species
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GERANIACEAE (Geranium Family)

Geranium spp.	Geranium species
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RANUNCULACEAE (Buttercup Family)

Delphinium spp.	Delphinium species
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SAXIFRAGACEAE (Saxifrage Family)

Ribes aureum	Golden currant
Ribes cereum	Gooseberry
Ribes spp.	Currant species

<i>LABIATAE</i> (Mint Family)	
Salvia spp.	Sage species
<i>VERBENACEAE</i> (Vervain Family)	
Verbena ciliata	Creeping vervain
Verbena spp.	Verbena species
<i>SCROPHULARIACEAE</i> (Snapdragon or Figwort Family)	
Castilleja spp.	Indian paintbrush species
Penstemon barbatus	Scarlet penstemon
Penstemon spp.	Penstemon species
Verbascum thapsus	Mullein, Miner's candle
<i>HYDROPHYLLACEAE</i> (Waterleaf Family)	
Nama hispidum	Purple nama, Curled nama
<i>POLEMONIACEAE</i> (Phlox Family)	
Gilia spp.	Gilia species
Ipomopsis longiflora	Blue trumpets
Phlox spp.	Phlox species
<i>CONVOLVULACEAE</i> (Morning-Glory Family)	
Convolvulus spp.	Bindweed species
Ipomopsis aggregata	Red rocket
Ipomopsis longiflora	Throated trumpet, Blue trumpet
Ipomopsis spp.	Morning glories species
<i>SOLANACEAE</i> (Nightshade Family)	
Lycium pallidum	Pale wolfberry
<i>COMPOSITAE</i> (Sunflower Family)	
Achillea millefolium lanulosa	Western yarrow
Artemisia tridentata	Big sagebrush
Aster spp.	Aster species
Baileya multiradiata	Desert marigold
Chrysothamnus nauseosus	Rubber rabbitbrush
Cirsium ochrocentrum	Santa Fe thistle
Gaillardia spp.	
Grindelia spp.	Gumweed
Gutierrezia sarothrae	Broom snakeweed
Hymenoxys richardsonii	Pinque
Ratibida spp.	Mexican hat, Prairie cone flower
Senecio spp.	Groundsel
Tetradymia canescens	Gray horsebrush
Zinnia grandiflora	Rocky Mountain zinnia, Plains zinnia