Vegetation Mapping Project

Dinosaur National Monument

U.S. Department of the Interior
National Park Service
U.S. Geological Survey
Bureau of Reclamation
Assisted by e²M and NatureServe

Ecological System Classes

- North American Arid West Emergent Marsh
- Rocky Mountain Subalpine-Montane Limber-Bristlecone Pine Woodland
- Rocky Mountain Aspen Forest and Woodland
- Southern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest and Woodland
- Southern Rocky Mountain Ponderosa Pine Woodland
- Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland
- Colorado Plateau Pinyon-Juniper Woodland
- Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland
- Rocky Mountain Gambel Oak-Mixed Montane Shrubland
- Inter-Mountain Basins Montane Sagebrush Steppe
- Colorado Plateau Mixed Low Sagebrush Shrubland
- Great Basin Semi-Desert Chaparral
- Inter-Mountain Basins Big Sagebrush Shrubland
- Inter-Mountain Basins Greasewood Flat
- Inter-Mountain Basins Semi-Desert Grassland
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Inter-Mountain Basins Wash
- Inter-Mountain Basins Active and Stabilized Dune
- Inter-Mountain Basins Shale Badland
- Geologic outcrops (rock)
- Land Use types

- Accuracy Assessment Locations
- Observation Locations
- Plot (& Fuels) Locations
- Vegetation Mapping Project Boundary
- Dinosaur National Monument Boundary

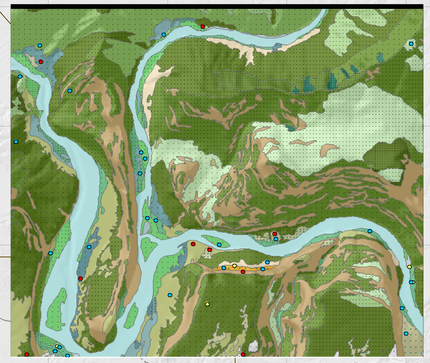
USGS science for a changing world

1:65,500

1 0.5 0 1 2 3 Kilometers

1 0.5 0 1 2 3 Miles

STRATUM	SPECIES
Canopy	Pinus edulis
	Juniperus osteosperma
Tall Shrub	Fraxinus anomala
Short Shrub	Cercocarpus intricatus
	Glossopetalon spinescens var. meionandrum
	Ephedra viridis
	Fendlerella utahensis
Herbaceous	Stipa hymenoides
	Stipa comata
Tree Seedling	Pinus edulis

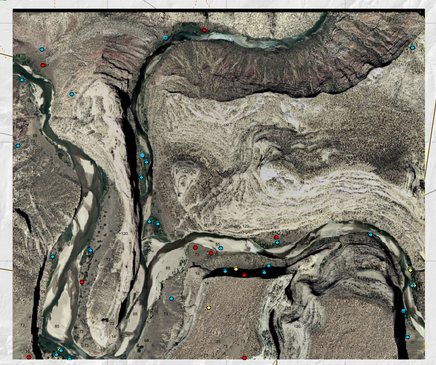


STRATUM	SPECIES
Short Shrub	Chrysothamnus viscidiflorus
	Chrysothamnus nauseosus
Dwarf Shrub	Opuntia polyacantha
Graminoid	Elymus smithii
	Bromus tectorum
	Distichlis spicata
	Sporobolus cryptandrus
	Stipa comata
	Stipa hymenoides
	Poa secunda
	Elymus spicatus
	Sporobolus airoides
Forb	Lappula occidentalis
	Stephanomeria exigua
	Chrysopsis villosa
	Epilobium ciliatum
	Lepidium lasiocarpum
	Tragopogon dubius
	Descurainia pinnata
	Sisymbrium altissimum
	Malcolmia africana
	Salsola tragus
Tree Seedling	Juniperus osteosperma
Nonvascular	Moss

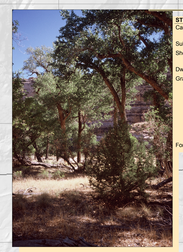
STRATUM	SPECIES
Short Shrub	Chrysothamnus viscidiflorus
	Ephedra viridis
Graminoid	Koeleria macrantha
	Stipa lettermanii
	Poa secunda
	Elymus spicatus
Tree Seedling	Juniperus osteosperma
Nonvascular	Moss

Mouth of Split Mountain Canyon/Amy Tendick

STRATUM	SPECIES
Short Shrub	Sarcobatus vermiculatus
Graminoid	Bromus tectorum
	Sporobolus cryptandrus



STRATUM	SPECIES
Graminoid	Spartina pectinata
Forb	Cirsium arvense
	Apocynum cannabinum



STRATUM	SPECIES
Canopy	Populus deltoides ssp. wislizeni
	Juniperus osteosperma
Subcanopy	Acer negundo
Short Shrub	Krascheninnikovia lanata
	Chrysothamnus viscidiflorus
Dwarf Shrub	Opuntia polyacantha
Graminoid	Elymus trachycaulus
	Sporobolus airoides
	Elymus cinereus
	Poa fendleriana
	Poa secunda
	Bromus tectorum
	Stipa comata
	Elymus repens
	Distichlis spicata
Forb	Cleome serrulata

STRATUM	SPECIES
Short Shrub	Krascheninnikovia lanata
	Grayia spinosa
	Artemisia tridentata ssp. wyomingensis
	Sarcobatus vermiculatus
	Ephedra viridis
Dwarf Shrub	Opuntia polyacantha
Herbaceous	Stipa comata
	Stipa hymenoides
	Hilaria jamesii
	Sporobolus cryptandrus
	Bromus tectorum

Vegetation Map Classes

- 95 Mixed Wetland/Riparian Vegetation
- 67 Cobble Bar Mixed Herbaceous Vegetation
- 68 Weedy Herbaceous Vegetation
- 37 Bottomland Shrubland
- 76 Broadleaf Cottonwood Woodland
- 92 Threeleaf Sumac Riparian Thicket
- 80 Box Elder Woodland
- 85 Tamarisk Thicket and Russian Olive Woodland
- 83 Box Elder / Netleaf Hackberry Woodland
- 1 Douglas-fir Forest
- 10 Pinyon-Juniper / Herbaceous Woodland
- 14 Pinyon-Juniper / Littleleaf Mtn Mahogany Shrubland and Woodland
- 19 Pinyon-Juniper / Basin Big Sagebrush Woodland
- 11 Pinyon-Juniper / Mixed Desert Shrub Woodland
- 8 Pinyon-Juniper / Sparse Understory Woodland
- 13 Pinyon-Juniper / Soil Crust Woodland
- 53 Canyon Wall Mixed Shrubland
- 54, Mixed Mountain Shrubland
- 31 Sagebrush/Rabbitbrush Shrubland
- 73 Native Grasslands
- 101 Active River Channel
- 120 Weber Sandstone
- 121 Morgan Formation
- 124 Madison Limestone

Map Units not displayed

- Aspen Forest
- Concentration of 1,000 Hour Fuel Loads
- Curlleaf Mountain Mahogany Woodland
- Limber Pine Woodland
- Pinyon-Juniper / Black Sagebrush Woodland
- Pinyon-Juniper-Curlleaf Mountain Mahogany Woodland
- Pinyon-Juniper / Sagebrush Woodland
- Pinyon-Juniper / True Mountain Mahogany Woodland
- Ponderosa Pine Woodland
- Rocky Mountain Juniper / Sagebrush Woodland
- Rocky Mountain Juniper / Three-leaf Sumac Woodland
- Black Sagebrush Shrubland and Cushion Plant Herbaceous
- Greenleaf Manzanita Shrubland
- Mat Saltbush Shrubland
- Mixed Desert Shrubland
- Sagebrush-Antelope Bitterbrush Shrubland
- Sagebrush-Spiny Hopsage-Black Greasewood Shrubland
- Hanging Gardens
- Narrow Canyon Mesic Woodland
- Eolian Sands
- Alluvial Deposits (Small Streams)
- Browns Park Formation
- Mancos Shale
- Frontier Sandstone
- Cedar Mountain Formation
- Morrison Formation
- Entrada Sandstone
- Carmel Formation
- Glen Canyon Sandstone
- Chinle Formation
- Gartra Conglomerate
- Moenkopi Formation
- Park City Formation
- Lodore Formation
- Uinta Mountain Formation
- Agricultural Fields
- Airstrips
- Communications and Utilities
- Quarries and Gravel Pits
- NPS Buildings and Yards
- Ranch Developments
- Rural Residential
- Stock Ponds and Tanks
- Transportation

Density Classes

- Closed Tree Canopy (>60% coverage)
- Open Tree Canopy (25 - 60% coverage)
- Dispersed Tree Canopy (10 - 25% coverage)
- Dense Shrub Canopy (>40% coverage)
- Light Shrub Canopy (<10 - 40% coverage)
- N/A

Height Classes

G = 15 - 30 meters
H = 5 - 15 meters
I = 1 - 5 meters
K = 1 - 5 meters
L = 0.5 - 1 meter
M = 0 - 0.5 meter

Map created: July 15, 2008

4510000 4505000 4500000 4495000 4490000 4485000 4480000 4475000 4470000 4465000 4460000

640000 645000 650000 655000 660000 665000 670000 675000 680000 685000 690000 695000 700000 705000 710000 715000 720000 725000 730000