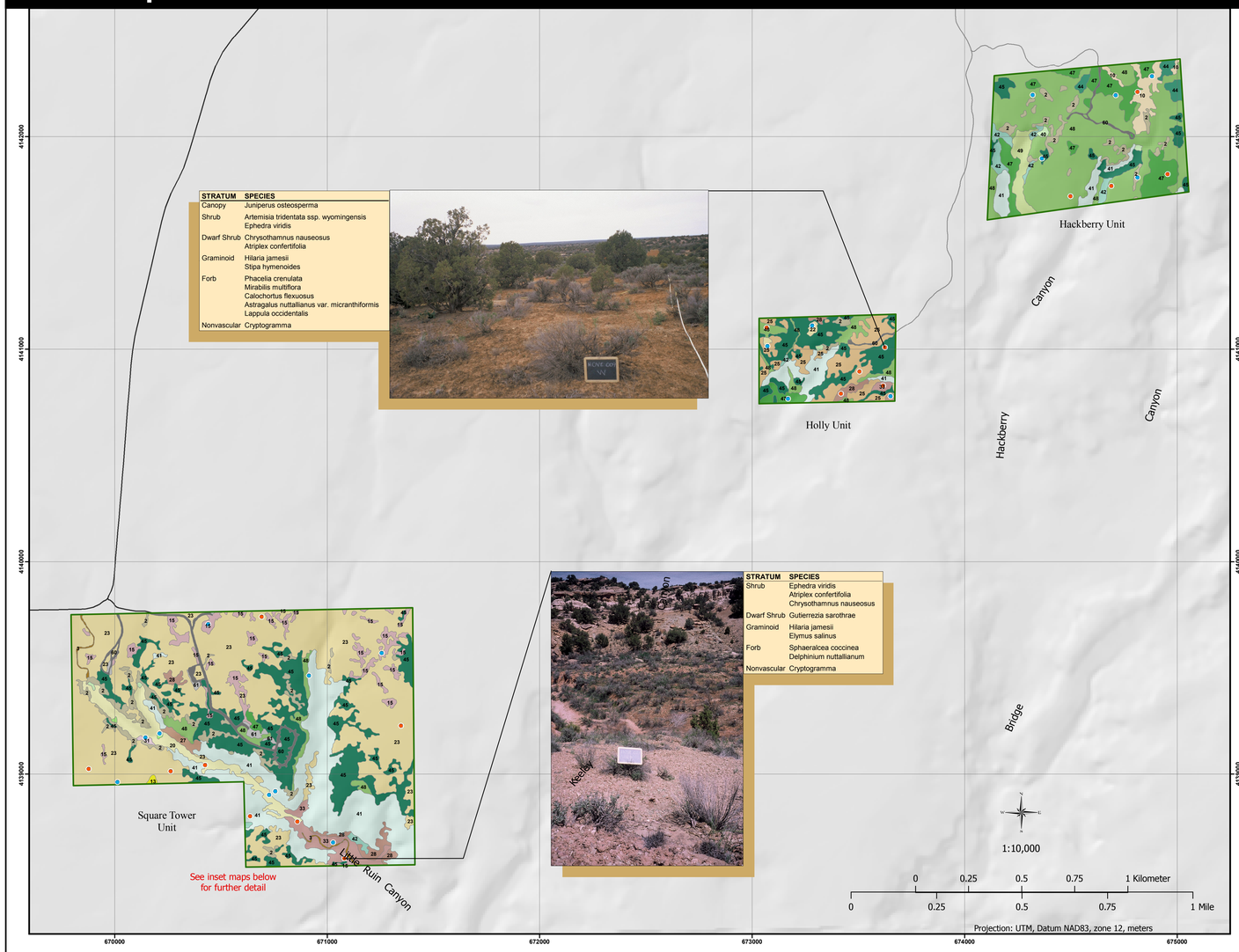
Vegetation Mapping Project

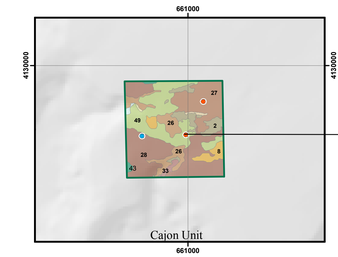
Hovenweep National Monument

U.S. Department of the Interior
National Park Service

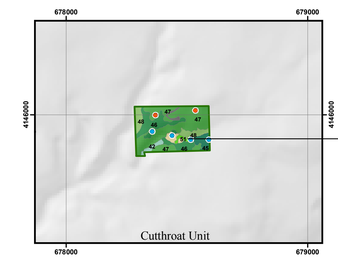


STRATUM	SPECIES
Canopy	Juniperus osteosperma
Shrub	Artemisia tridentata ssp. wyomingensis Ephedra viridis
Dwarf Shrub	Chrysothamnus nauseosus Atriplex confertifolia
Graminoid	Hilaria jamesii Stipa hymenoides
Forb	Phacelia crenulata Mirabilis multiflora Calochortus flexuosus Astragalus nuttallianus var. micranthiformis Lappula occidentalis
Nonvascular	Cryptogramma

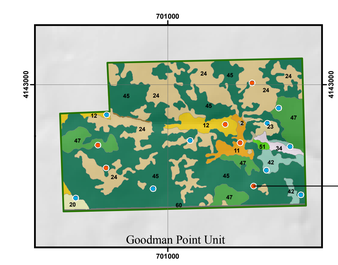
STRATUM	SPECIES
Shrub	Ephedra viridis Atriplex confertifolia Chrysothamnus nauseosus
Dwarf Shrub	Gutierrezia sarothrae
Graminoid	Hilaria jamesii Elymus salinus
Forb	Sphaeralcea coccinea Delphinium nuttallianum
Nonvascular	Cryptogramma



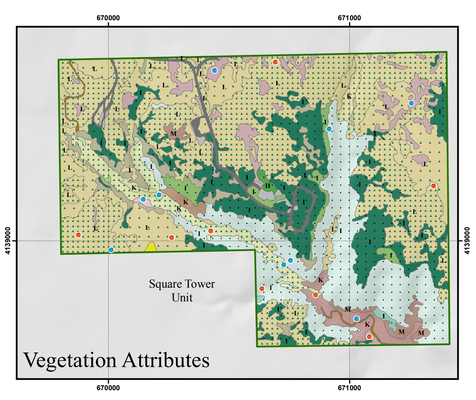
STRATUM	SPECIES
Shrub	Atriplex confertifolia Senecio douglasii var. longilobus Yucca angustissima Artemisia bigelovii Purshia mexicana Ephedra torreyana
Dwarf Shrub	Opuntia erinacea Gutierrezia sarothrae
Graminoid	Bromus tectorum Festuca octoflora Hilaria jamesii
Forb	Calochortus flexuosus Plantago patagonica Rumex hymenosepalus Arenaria fendleri Astragalus mollissimus Chaenactis stevioides Oenothera pallida Cymopterus newberryi Astragalus nuttallianus var. micranthiformis Lappula occidentalis
Nonvascular	Cryptogramma

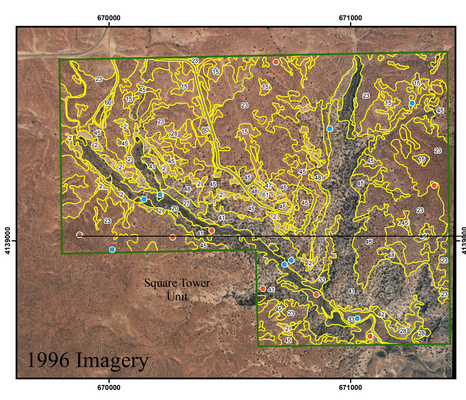


STRATUM	SPECIES
Canopy	Populus deltoides ssp. wislizeni
Subcanopy	Pinus edulis Juniperus osteosperma
Tall Shrub	Salix exigua Cercocarpus montanus
Shrub	Purshia mexicana
Herbaceous	Festuca



STRATUM	SPECIES
Canopy	Juniperus osteosperma Pinus edulis
Subcanopy	Pinus edulis Juniperus osteosperma
Tall Shrub	Amelanchier utahensis
Shrub	Artemisia tridentata ssp. wyomingensis Peraphyllum ramosissimum
Dwarf Shrub	Opuntia erinacea Opuntia fragilis
Graminoid	Bromus tectorum Poa fendleriana
Forb	Cymopterus newberryi Lupinus Microsteris gracilis Zigadenus paniculatus Trifolium pratense Eriogonum ovalifolium Ranunculus testiculatus
Nonvascular	Cryptogramma





STRATUM	SPECIES
Shrub	Ephedra viridis Artemisia tridentata ssp. wyomingensis
Graminoid	Bromus tectorum Festuca octoflora
Forb	Lappula occidentalis Phacelia crenulata Cryptantha crassisepala Astragalus nuttallianus var. micranthiformis
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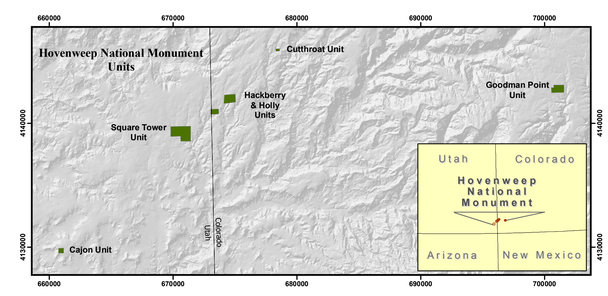

Vegetation Map Classes

- 41 Juniper Woodland
- 42 Pinyon-Juniper / Gambel Oak Woodland
- 43 Pinyon-Juniper / Saltbush Woodland
- 44 Pinyon-Juniper / Grasses Woodland
- 45 Pinyon-Juniper / Wyoming Sagebrush Woodland
- 46 Pinyon-Juniper / Mountain Mahogany Woodland
- 47 Pinyon-Juniper / Sparse Understory Woodland
- 48 Pinyon-Juniper / Bitterbrush Woodland
- 49 Pinyon-Juniper / Bigelow Sagebrush Woodland
- 40 Hackberry Woodland
- 50 Rio Grande Cottonwood / Rabbitbrush Woodland
- 51 Rio Grande Cottonwood / Coyote Willow Woodland
- 20 Basin Big Sagebrush Shrubland
- 22 Wyoming Sagebrush - Shadscale Shrubland
- 23 Wyoming Sagebrush Disturbed Shrubland
- 24 Wyoming Sagebrush / Native Grass Shrubland
- 25 Wyoming Sagebrush / Sparse Understory Shrubland
- 26 Bigelow Sagebrush Shrubland
- 27 Fourwing Saltbush / Galleta Shrubland
- 28 Shadscale / Galleta Shrubland
- 33 Greasewood Shrubland
- 15 Snakeweed-Sparse Grasses Dwarf-shrubland
- 31 Montane Deciduous Shrubland
- 34 Mixed Riparian Shrubland
- 10 Mixed Short Grassland
- 8 Alkali Sacaton Grassland
- 11 Western Wheatgrass Grassland
- 12 Smooth Brome Grassland
- 13 Cheatgrass Grassland
- 2 Slickrock (unvegetated)
- 3 Unvegetated Wash
- 60 Roads
- 61 Monument Facilities

- Plot Locations
- Observation Locations
- Hovenweep National Monument

Density Classes

- Closed Tree Canopy / Continuous (>60% coverage)
- Open Tree Canopy / Discontinuous (25-60% coverage)
- Dispersed - Sparse Tree Canopy (10-25% coverage)
- Dense Sagebrush Canopy (>40% coverage)
- Light Sagebrush 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

Cooperator: U.S. Geological Survey

Assisted by: e^2M and NatureServe