



The Canyon de Chelly National Monument Vegetation Map Database was developed as a primary product in the Canyon de Chelly National Monument vegetation classification and distribution mapping project. The map database includes vegetation in three levels of thematic organization at the monument: the base, group, and management map levels. Most of the base map classes represent plant communities identified to National Vegetation Classification associations. The *Vegetation Classification and Distribution Mapping Report, Canyon de Chelly National Monument* describes the methods used to develop the map database and map classes. The project was sponsored by the USGS-NPS Vegetation Mapping Program and the National Park Service (NPS) Southern Colorado Plateau Network. The work was executed by a multi-agency team. The vegetation map database includes the monument and approximately a one-kilometer buffer outside the monument boundary.

Base map class polygons (53 classes) were manually interpreted from 1:12,000-scale true color aerial photography acquired in 2004. Field data collected for this project (145 relevés), and observations made in the field during photo-interpretation were used to identify forty-eight plant communities (associations, alliances, and park specials) that were assigned to base map classes. Six-hundred thirty-six field accuracy assessment observations were used to determine the base map class accuracy. Group map classes (16 total) were formed through combinations of base map classes and approximate the group level of version 2 of the National Vegetation Classification Standard. Management map classes (28 total) were formed from base map classes. The accuracy assessment data collected in the field were used to determine the accuracy of the base, group and management map classes.

This map illustration represents the management class view of the vegetation map database. Accuracy of the management map classes was assessed at a Kappa accuracy of 68.2%.

The total area for the project included the park and its environs and covered 59,739 ha (147,619 ac). The area within the monument boundaries covered 37,448 ha (92,537 ac), or 62.7% of the project area.

Map Projection: Universal Transverse Mercator (UTM) Zone 12, North American Datum 1983 (NAD 83), Units: Meters.

Although these data have been processed successfully on a computer system at the U.S. Geological Survey, no warranty expressed or implied is made regarding the utility of the data on another system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data and aggregate use with other data. It is also strongly recommended that careful attention be paid to the contents of the metadata file associated with these data.

Information related to this and other USGS-NPS Vegetation Mapping Program projects can be accessed at: <http://biology.usgs.gov/npsveg/>

Hectares	Management Map Classes
67	Major Roads
96	Mixed Urban Chinle
158	Mixed Monument and Rim Rural Residential
4	Artificial catchment
188	Traditional Community-Use Agriculture (Canyon del Muerto)
91	Traditional Community-Use Agriculture (Canyon de Chelly)
110	Barren Wash Bottom
49	Sand Dunes
1,390	Sandstone Rock
81	Tsalle Lake
Herbaceous Vegetation	
103	Blue Grama Herbaceous Vegetation
113	Mixed Riparian Herbaceous Vegetation
108	Mixed Upland Herbaceous Vegetation
193	Utah Juniper / Mormon-tea / Cheatgrass Wooded Herbaceous Vegetation
Shrubland	
8,898	Big Sagebrush / Natural and Semi-natural Understory Shrubland
11	California Brickellbush Shrubland
28	Russian Olive - Saltcedar Woodland and Shrubland
1,754	Rubber Rabbitbrush - Prickly Pear Shrubland
671	Shadscale / Galleta Shrubland
Woodland	
9	Boxelder / (Big Sagebrush / Net-leaf Hackberry) Woodland
5,662	Mixed Conifer Gambel Oak Woodland
26,271	Mixed Conifer Sagebrush Woodland
863	Rio Grande Cottonwood / Russian Olive Semi-natural Woodland
2,546	Two-needle Pinyon - Utah Juniper / Blue Grama Woodland
2,193	Two-needle Pinyon - Juniper spp. / Mountain-mahogany - Stansbury Cliffrose Shrub Woodland
6,406	Two-needle Pinyon - Utah Juniper / Shrub Live Oak Woodland
Forest	
1,726	Douglas-fir Mixed Forest
1	Quaking Aspen / Three-leaf Sumac Forest
Political Features	
37,448	Park Boundary

