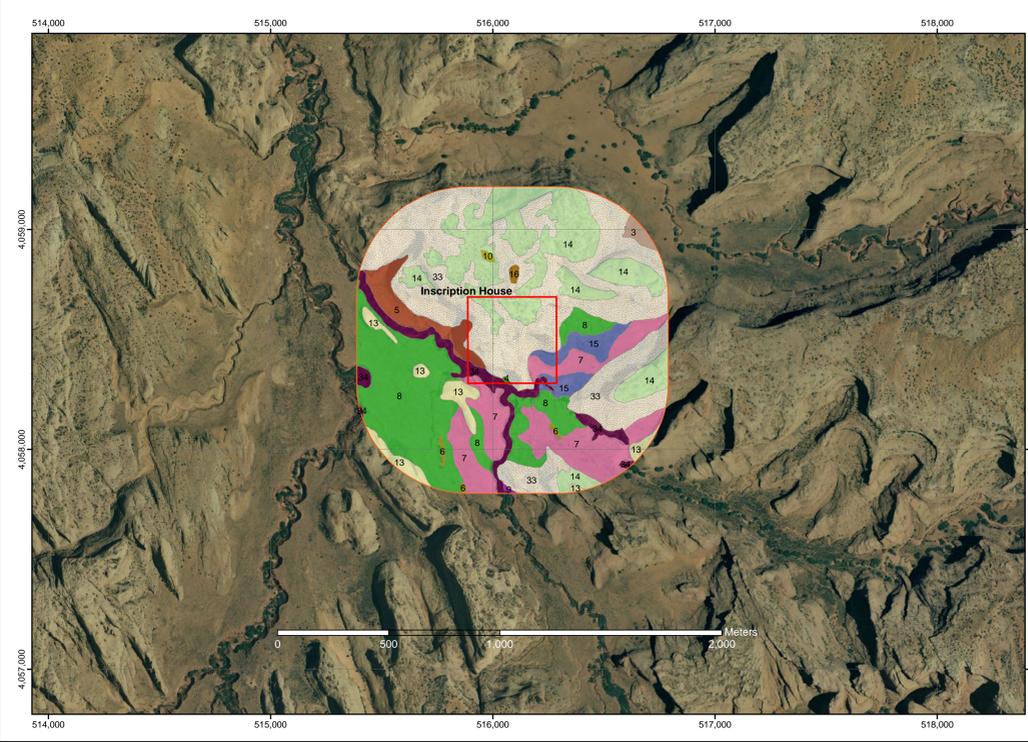
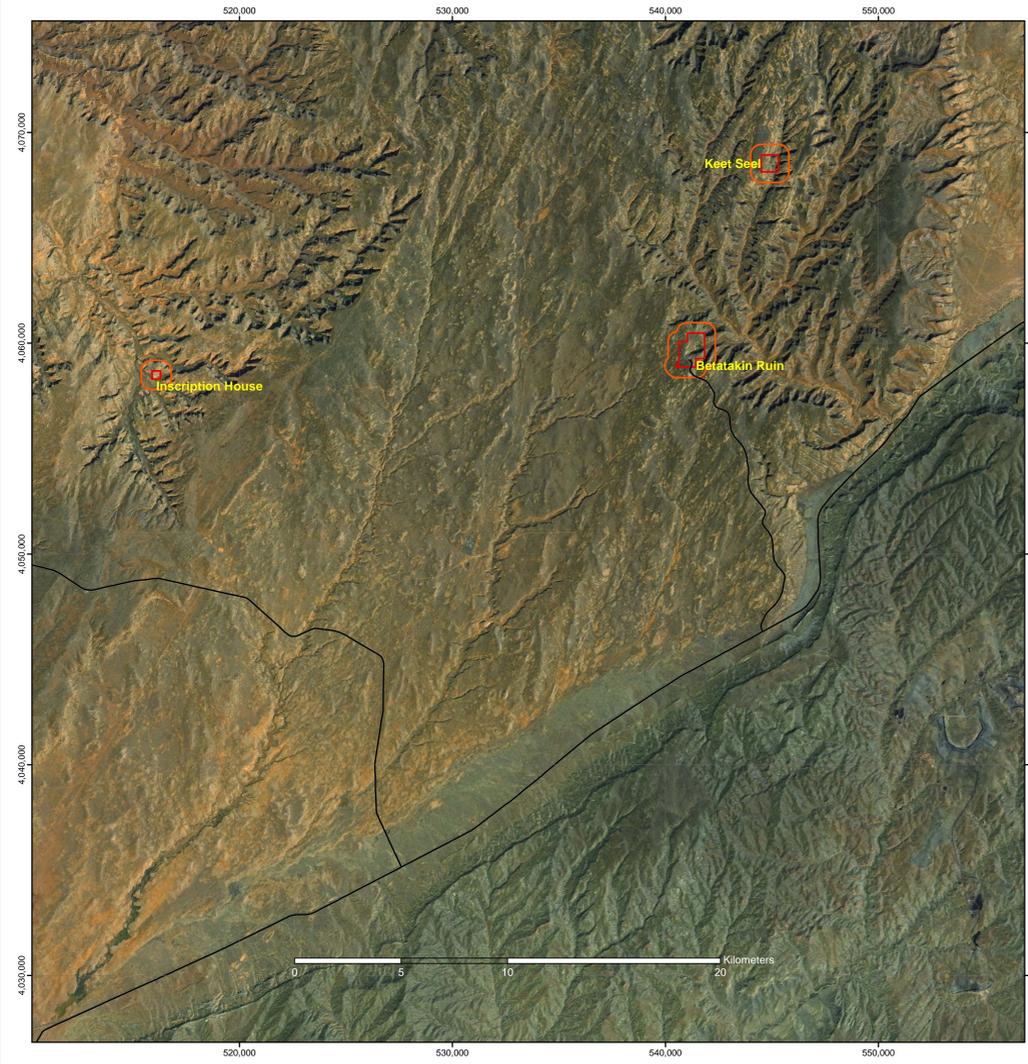


# Navajo National Monument

## Vegetation and Land Cover

Southern Colorado Plateau Network  
 National Park Service  
 1296 S. Knolls Dr.  
 Northern Arizona University  
 Building 56, Room 140  
 Flagstaff, AZ 86011



**Legend**

- Monument Boundaries
- Buffer Area

**Vegetation Code, Vegetation Name**

<ul style="list-style-type: none"> <li>1, Box-elder / Disturbed Understory Woodland</li> <li>2, Wyoming Big Sagebrush / Needle-and-Thread Colorado Plateau Shrubland</li> <li>3, Wyoming Big Sagebrush Shrubland Alliance</li> <li>4, Fourwing Saltbush / Alkali Sacaton Shrubland</li> <li>5, Fourwing Saltbush Shrubland Alliance</li> <li>6, Russian-olive Semi-natural Woodland Alliance</li> <li>7, Rubber Rabbitbrush / Cheatgrass Semi-natural Shrubland</li> <li>8, Rubber Rabbitbrush Sand Deposit Sparse Shrubland</li> <li>9, Rubber Rabbitbrush Shrubland Alliance</li> <li>10, Needle-and-Thread - Indian Ricegrass Herbaceous Vegetation</li> <li>11, Invasive Annual and Biennial Forbland Alliance</li> <li>12, Utah Juniper / Wyoming Big Sagebrush Woodland</li> <li>13, North American Warm Desert Bedrock Cliff and Outcrop</li> <li>14, Two-needle Pinyon - (Juniper species) Woodland Alliance</li> <li>15, Two-needle Pinyon - Utah Juniper / Utah Serviceberry Woodland</li> <li>16, Two-needle Pinyon - Utah Juniper / Littleleaf Mountain-mahogany Woodland</li> </ul>	<ul style="list-style-type: none"> <li>17, Two-needle Pinyon - Utah Juniper / Brittle Prickly-pear Woodland</li> <li>18, Two-needle Pinyon - Utah Juniper / Roundleaf Buffalobery Woodland</li> <li>19, Two-needle Pinyon - Juniper species / (Wyoming Big Sagebrush, Mountain Big Sagebrush) Woodland</li> <li>20, Two-needle Pinyon - Utah Juniper / Antelope Bitterbrush Woodland</li> <li>21, (Rio Grande Cottonwood, Plains Cottonwood) / Coyote Willow Woodland</li> <li>22, Quaking Aspen / Gambel Oak / Mountain Snowberry Forest</li> <li>23, Quaking Aspen Temporarily Flooded Forest Alliance</li> <li>24, Choke Cherry Shrubland Alliance</li> <li>25, Douglas-fir / Box-elder Woodland</li> <li>26, Douglas-fir / Gambel Oak Forest</li> <li>27, Douglas-fir Forest Alliance</li> <li>28, Gambel Oak / Gooseberry Shrubland</li> <li>29, Gambel Oak / Mountain Snowberry Shrubland</li> <li>30, Gambel Oak Shrubland Alliance</li> <li>31, River/Stream</li> <li>32, Road/Facilities</li> <li>33, Sandstone Sparsely Vegetated Alliance</li> <li>34, Salt-cedar species Semi-natural Temporarily Flooded Shrubland Alliance</li> </ul>
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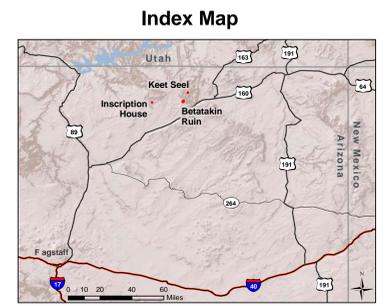
The Navajo National Monument Vegetation Classification and Mapping project was a multi-year project undertaken by the U.S. Bureau of Reclamation (BOR) in cooperation with the Southern Colorado Plateau Network of the National Park Service (NPS). Vegetation at Navajo National Monument was first classified and then mapped, utilizing a combination of new field data and aerial photointerpretation, and adhering to the protocols and standards of the US Geological Survey(USGS)/NPS National Vegetation Mapping Program.

To classify the vegetation, we used data from 49 plots, collected by the Navajo Natural Heritage Program and by Ecosystem Management International in 2005. These plots were compared to existing vegetation types described by the National Vegetation Classification System (NVCS), and assigned to the appropriate type. Thirty-two vegetation map units were derived from the plant alliances and associations assigned on the basis of the field data. Two additional map units represent rivers/streams and roads/facilities.

To produce the digital vegetation map, we used 1:12,000-scale true color aerial photography, acquired over several days in June 2004, in addition to the 2005 field data. All 34 map units were developed and directly cross-walked or matched to corresponding plant associations and land-use classes. All of the interpreted and remotely-sensed data were converted to Geographic Information System databases using ESRI ArcGIS® software. Draft maps were printed, reviewed, and revised.

The U.S. Bureau of Reclamation, under contract with USGS and NPS generated these data. Although these data have been processed successfully on computers at BOR and USGS, no warranty, expressed or implied, is made regarding the accuracy or utility of the data on any other system or for general or scientific purposes. Any person using the information presented here should fully understand the data collection and compilation procedures, as described in the metadata, before beginning analysis. The burden for determining fitness for use lies entirely with the user.

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Projection UTM  
 Datum NAD 83  
 Zone 12  
 Images - I3 Imagery Prime World 2D  
 ESRI Shaded Relief World 2D

**Participating Agencies and Private Entities**

