



### Aerial Photo-interpretation Mapping Methodology

#### EXPLANATION

- Forest and Woodland**
- White Fir Forest and Woodland (Sparse)
  - White Fir-Mixed Needleleaf Forest and Woodland (Sparse)
  - Red Fir Forest and Woodland (Sparse)
  - Red Fir Forest and Woodland (Sparse) (With Dry Mixed Herbaceous; Other Grasses)
  - Red Fir-Mixed Needleleaf Forest and Woodland (Sparse)
  - Red Fir-Mixed Needleleaf Forest and Woodland (Sparse) (Represents Red Fir; Western White Pine; Mountain Hemlock)
  - Park Special - Quaking Aspen/Western Needlegrass-Squirreltail-(Mix) Forest/Woodland
  - Park Special - Black Cottonwood
  - Whitebark Pine Woodland Sparse
  - Lodgepole Pine Forest and Woodland (Sparse)
  - Jeffrey Pine Forest and Woodland (Sparse)
  - Jeffrey Pine Mixed Needleleaf Woodland (Sparse)
  - True Fir-Long Needle Pine-Mixed Needleleaf Forest and Woodland (Sparse)
  - Mountain Hemlock Woodland (Sparse)
- Shrubland**
- Grey Alder Shrubland
  - Pinemat Manzanita Shrubland
  - Dry Other-(Mixed) Shrubland
  - Rockspirea Shrubland and Other Shrubland; Mixed Shrubland
  - Willow Shrubland
- Herbaceous Vegetation**
- Western Needlegrass-Squirreltail Herbaceous
  - Satin Lupin Perennial Herbaceous
  - Other Herbaceous - Dry Mixed Herbaceous\Other Mixed Herbaceous
  - Other Herbaceous - Sedge Mixed Herbaceous Meadow\Mesic Herbaceous Meadow/Complex\Wet Herbaceous Meadow
  - Park Special - Wet Herbaceous Vegetation
  - Mule's Ear Perennial Herbaceous
- Other Landscape Features**
- Barren Landscape Feature
  - Barren Sparsely Vegetated Landscape Feature
  - Snow Landscape Feature
  - Water Landscape Feature
- Management Map Classes**
- Lassen Volcanic National Park Boundary
  - Major Roads
  - Minor Roads
  - Unknown
  - Urban

The Lassen Volcanic National Park Vegetation Map Database was developed as a primary product in the National Park Service Vegetation Inventory Program. Most of the map classes represent plant communities identified to the National Vegetation Classification general alliances. The Lassen Volcanic National Park Vegetation Inventory Project report describes the methods used to develop the map databases and map classes. The project was sponsored by the NPS Vegetation Inventory Program and the National Park Service (NPS) Klamath Network Inventory and Monitoring Program. The work was executed by the NPS, U.S. Geological Survey, environmental engineering Management, Inc., Cogan Technology, Inc., and Geographic Resource Solutions.

Base map class polygons (32 classes) were manually interpreted from 1:15,840-scale true color aerial photography acquired in 2004. Field data collected for this product (288 observation points) and observations made in the field were used to identify forty-seven plant communities (associations, alliances, super-alliances, and park special) that were assigned to map classes. Five-hundred eighty-one accuracy assessment observations were used to determine the general alliance class accuracy. The accuracy assessment data collected in the field after the draft databases were developed, were used to determine the accuracy of the map classes.

This map illustration represents the general alliance class view of the Aerial Photo-interpretation Mapping Methodology draft (2007) vegetation map database. The Proportion Correct of the general alliance classes (refer to report) was 45% to 72% for three scenarios; the Overall Quantity Disagreement was 22% to 11%, the Overall Allocation Disagreement was 33% to 17%; the overall Kappa Index was 43% to 68%.

The total area for the project included the park and its environs and covered 56,027 ha (138,446 ac). The area within the 2006 park boundary covered 43,395 ha (107,231 ac), or 77.4% of the project area.

Map Projection: Universal Transverse Mercator (UTM) Zone 10, 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 NPS Vegetation Inventory Program projects can be accessed at: <http://science.nature.nps.gov/inventory/veg/>

