Lassen Foothills - Dye Creek and Surrounding Areas

Vegetation Mapping

Project Summary

The Tehama County Resource Conservation District, California Native Plant Society (CNPS), Aerial Information Systems (AIS), and The Nature Conservancy (TNC) partnered to conduct a vegetation mapping and monitoring project within a 100,000 acre portion of the Lassen Foothills area of Eastern Tehama County. This pilot project produced information that will aid in the implementation of ecological restoration and wildlife habitat improvement projects within the Lassen Foothills, an area whose vegetation response and development is largely controlled by wildfire.

The major components of this project included:

- A vegetation classification at the alliance-level with crosswalks to wildlife habitats
- A detailed map of the current vegetation located within a pilot study area
- Development of state and transition models for each vegetation type (to identify reference conditions and historic fire regimes)
- A fire condition class map for vegetation (to identify the departure from "natural" conditions)
- Incorporation of this information into the overall Lassen Fire Plan

This map was completed by Aerial Information Systems, in conjunction with the California Native Plant Society (CNPS) based upon a classification system that CNPS and CDFG developed for the foothills of the southern Cascades and Sierra Nevada. Development of state and transition models for each vegetation type along with fire condition class maps were completed by The Nature Conservancy (TNC). These transitions models will help predict changes in vegetation resulting from variations in the frequency of fires as well as help land managers determine where prescribed fires will be of most benefit.

Legend

- Local Roads
- Linear Hydrologic Features
- Tehama County Wildlife Area
- Dye Creek Study Area
- Denny Ranch (south)
- Lassen Vegetation MapCode
- Pinus sabiniana Woodland/Forest Alliance (Foothill Pine)
- Pinus ponderosa Woodland/Forest Alliance (Ponderosa Pine)
- Juniperus californica Alliance (California Juniper)
- Umbellularia californica Alliance (California Bay)
- Aesculus californica Woodland/Forest Alliance (California Buckeye)
- Quercus wislizeni Woodland/Forest Alliance (Interior Live Oak Tree)
- Quercus douglasii Woodland/Forest Alliance (Blue Oak)
- Quercus kelloggii Woodland/Forest Alliance (Black Oak)
- Quercus lobata Woodland/Forest Alliance (Valley Oak)
- Quercus chrysolepis Woodland/Forest Alliance (Canyon Live Oak)
- Southwestern North American Riparian Evergreen and Deciduous Woodland Group
- Populus fremontii Woodland/Forest Alliance (Fremont Cottonwood)
- Salix laevigata Woodland/Forest Alliance (Red Willow)
- Alnus rhombifolia Woodland/Forest Alliance (White Alder)
- Southwestern North American Riparian/Wash Scrub Shrubland Group
- Californian Chaparral Shrubland Group
- Ceanothus cuneatus Shrubland Alliance (Buckbrush)
- Mixed Scrub Oak Chaparral Super Alliance
- Quercus garryana var. breweri Shrubland Alliance (Brewer Oak)
- Temperate and Boreal Shrubland and Grassland Formation Subclass
- California Annual and Perennial Grassland Macro Group
- California Mixed Annual/Perennial Freshwater Vernal Pool/Swale Bottomland Group (meadows only)
- Arid West Freshwater Emergent Marsh Macro Group
- Areas of Little or No Vegetation
- Built Up and Urban Disturbance
- Agriculture
- Restoration Sites
- Water

Data Sources:
USGS, State of California, and Tehama County

Metadata:
- Data Coordinates: UTM, Zone 10, Meters, NAD83
- Data Capture Dates: June 2007 to December 2007
- Imagery Date: 2005
- Map Created on: May 29, 2009
- Data Sources: USGS, State of California, and Tehama County