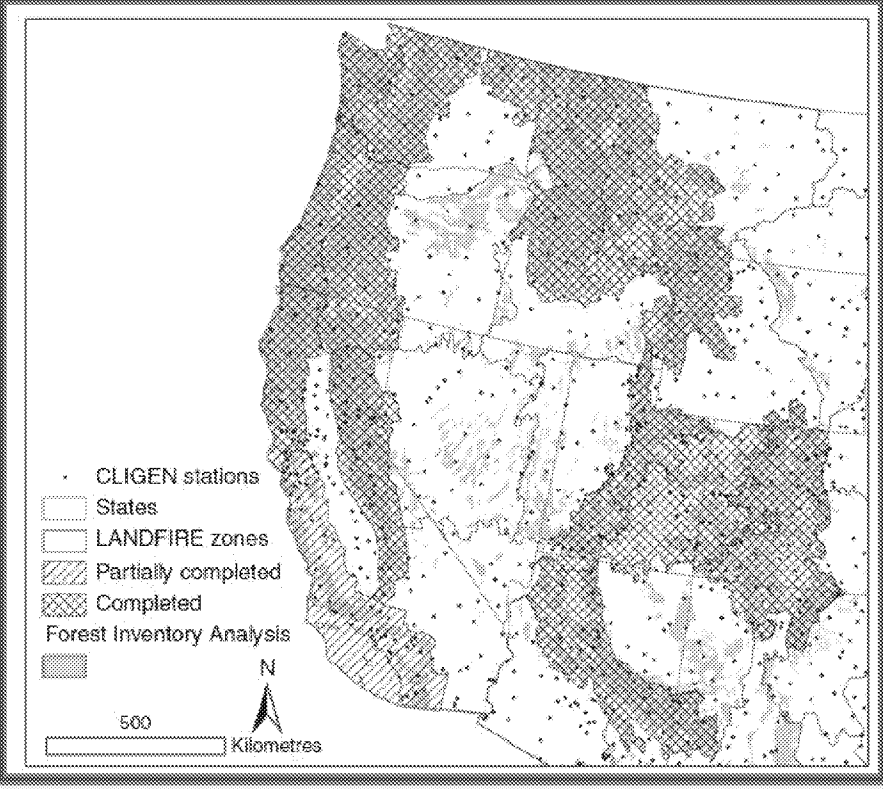
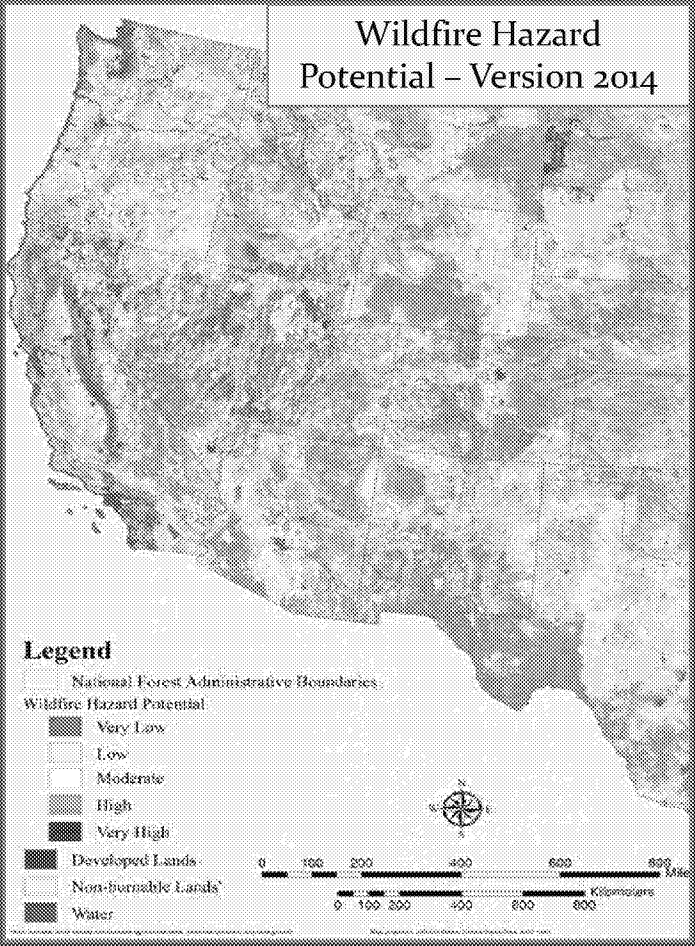
Wildfire Erosion Study Area



- Erosion estimates compiled for 12 LANDFIRE Zones
  - The term "LANDFIRE Zones" refers to a set of USGS-derived areas with similar features such as climatology, topography, and soil type. The LANDFIRE Project, a joint effort of the USDA Forest Service and the Department of Interior, uses these zones for the primary purpose of collating wildfire-related analyses and planning. See [illegible] and [illegible].
- CLIGEN is the climate generator in WEPP; 739 climate data stations lie within the Study Area

Wildfire Hazard Potential

- Erosion prediction modeling offers estimates of amount of sediment delivered **IF** a wildfire occurs, **NOT** the likelihood of wildfire
- Wildfire Hazard Potential, developed by USDA Forest Service Fire Modeling Institute, depicts the relative potential for **wildfire that would be difficult for suppression resources to contain**
  - Inputs include past fire occurrence (1992-2012), LANDFIRE 2010 vegetation data
  - 270m pixels, nationwide coverage
- Areas scoring "High" or "Very High" used in this project
  - "High" breakpoint at 84th percentile
  - "Very High" breakpoint at 95th percentile



Source: http://www.firelab.org/project/wildland-fire-potential

Information Compiled in Spreadsheet

1	ENTITY_ID	Top20PCT_ErosionPotential_Area	PCT_Area_Tribal	PCT_Area_NPS	PCT_Area_BOR	PCT_Area_BLM	PCT_Area_Forest
2	CA4500014_CA4500014001	8953908.336	0	0	0	0	
3	CA4600094_32100	3943899.871	0	0	0	0	
4	CA3110008_29904	2214709.828	0	0	0	0	
5	CA5301002_33640	17743557.18	0	0	0	48.85974505	
6	CA1200729_26255	8584763.316	0	0	0	0	
7	CA4610002_32125	46687024.61	0	0	0	0	
8	CA4500317_CA4500317001	2028210.48	0	0	0	37.24373973	
9	CA5301017_33660	14679296.7	0	0	0	0	
10	090600134_0600134SW001	1362427.912	45.88415387	0	0	0	
11	CA0600555_25137	221490010.5	0	0	0	0	
12	CA4510507_32005	213281068.7	0	17.5705484	0	35.26854401	
13	CA4510503_31997	213281068.7	0	17.5705484	0	35.26854401	
14	CA0310003_24924	84043236.74	0	0	0	0.011592612	
15	CA5301108_33678	103807896.9	0	0	0	0	
16	CA1200568_26178	4313009.444	0	0	0	0	
17	CA4510013_31988	213093723	0	37.90643335	0	25.71363025	
18	CA4500001_31950	213093723	0	37.90643335	0	25.71363025	
19	CA4510005_31977	213093723	0	37.90643335	0	25.71363025	
20	CA4510508_32003	213093723	0	37.90643335	0	25.71363025	
21	CA4510010_31993	213093723	0	37.98775901	0	25.70479047	
22	CA5310001_33819	9357761.503	0	0	0	0	
23	CA4510004_31974	187441618.6	0	0	0	0	
24	CA5310003_33827	53676680.46	0	0	0	0	
25	CA0405001_24891	114549449	0	0	0	2.569553937	
26	CA5510029_34013	542179.3971	0	0	0	0	
27	CA0610300_25210	10411054.66	0	29.6709353	0	0	
28	CA2910007_29477	27046986.43	0	0	0	0	
29	CA4510505_32000	15499193.78	0	99.86801228	0	0	
30	CA5310008_34288	8854700.386	0	0	0	0	

CA SPAs w/ High or Very High WHP | SPAs w/ >50% Area Top20% Erosion | Populations Served >1,000 | FS Ownership >50%

Tabs Show:

- 198 CA SPAs with some % area High or Very High Wildfire Hazard Potential
- 33 of the 198 SPAs with High or Very High WHP also have >50% of their area covered by pixels ranking in Top 20% erosion potential for specific Landfire Zone
- 13 of the previous 33 which also are part of drinking water systems serving >1,000 population
- 4 of the above 13 which have >50% Forest Service ownership

California SPAs Identified in Exercise

- East Weaverville Creek, Weaverville CSD System
- Shasta Lake Intake, Shasta Co. Service Area #6
- West Weaverville Creek, Weaverville CSD System
- Main Tuolumne Ditch, Tud-Cedar Ridge Water System