

JEFFREY PINE/HUCKLEBERRY OAK-PINEMAT MANZANITA

*Pinus jeffreyi/Quercus vaccinifolia-Arctostaphylos nevadensis*

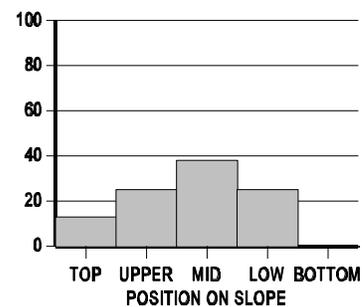
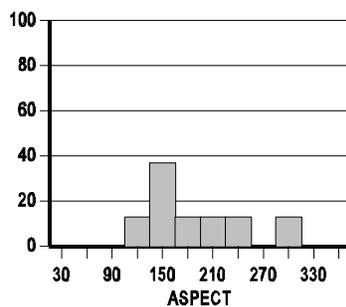
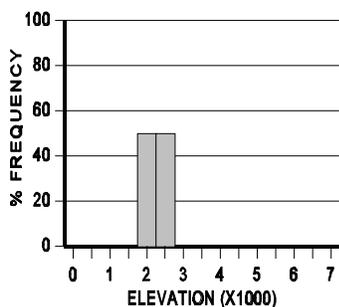
PIJE/QUVA-ARNE (N=8; FS=8)



Distribution. This Association occurs on the Chetco Ranger District, Siskiyou National Forest. All plots were located in the Lemmingsworth Gulch Research Natural Area.

Distinguishing Characteristics. This Association is a coastal expression of vegetation on ultramafics. It is the only warm, wet Jeffrey pine association, with an average annual temperature of 50 degrees F and average annual precipitation of 120 inches. Jeffrey Pine/Huckleberry Oak-Pinemat Manzanita-Box-Leaved Silk-Tassel is cooler but also averages 120 inches of precipitation per year. Both associations are by far the wettest of the Series.

Soils. Parent material is serpentine. Surface gravel averages 24 percent, while surface rock averages 27 percent. Average exposed bedrock cover is 1 percent. Based on two plots sampled, soils are shallow to moderately deep (10 to 30 inches)



and well drained. Surface texture is loam, with 25 to 33 percent gravel, 2 percent cobbles, and 25 percent clay. Subsurface textures are loam and clay loam, with 0 to 50 percent gravel, 5 to 50 percent cobbles, and 20 to 35 percent clay. The soil moisture regime is probably xeric and the soil temperature regime is probably mesic. Soils classify to the following subgroups: Lithic Xerochrept and Typic Haploxeralf.

Environment. Elevation averages 2240 feet. This Association is found predominantly on southern aspects. Slope averages 41 percent and ranges from 13 to 60 percent. All slope positions are represented.

Vegetation Composition and Structure. Total species richness is very high for the Series, averaging 49 species. The overstory is dominated by Jeffrey pine, Douglas-fir, and knobcone pine. The understory is dominated by Jeffrey pine, with frequent occurrences of Douglas-fir and California-laurel. Huckleberry oak is frequently present with an average cover of 22 percent. The shrub form of tanoak is commonly found. Pinemat manzanita, dwarf ceanothus, and coffeeberry are frequently present, as is rock fern, obscure bedstraw, few-fruited biscuit-root, death camas, common yarrow, variable morning-glory, slender-tubed iris, and spreading phlox, all with low covers. Moss cover averages 2 percent.

Upper layer tree cover is low for the Series, averaging 6 percent. Mid-layer tree cover is high for the Series, averaging 31 percent, while lower layer tree cover is intermediate, averaging 38 percent. High shrub and low shrub covers are low for the Series, averaging 5 and 21 percent, respectively. Herb/grass cover is intermediate for the Series, with an average of 48 percent.

| Common name              | Code  | Constancy | Cover | Avg. Richness |
|--------------------------|-------|-----------|-------|---------------|
| <u>Overstory trees</u>   |       |           |       | 3             |
| Jeffrey pine             | PIJE  | 100       | 15    |               |
| Douglas-fir              | PSME  | 100       | 10    |               |
| Knobcone pine            | PIAT  | 88        | 7     |               |
| <u>Understory trees</u>  |       |           |       | 5             |
| Jeffrey pine             | PIJE  | 100       | 4     |               |
| Douglas-fir              | PSME  | 100       | 2     |               |
| California-laurel        | UMCA  | 88        | 18    |               |
| Knobcone pine            | PIAT  | 38        | 3     |               |
| <u>Shrubs</u>            |       |           |       | 9             |
| Huckleberry oak          | QUVA  | 100       | 22    |               |
| Pinemat manzanita        | ARNE  | 100       | 8     |               |
| Dwarf ceanothus          | CEPU  | 100       | 3     |               |
| Coffeeberry              | RHCA  | 88        | 4     |               |
| Tanoak (shrub form)      | LIDEE | 63        | 3     |               |
| <u>Herbs</u>             |       |           |       | 32            |
| Carex spp.               | CAREX | 100       | 7     |               |
| Death camas              | ZIMI  | 100       | 2     |               |
| Rock fern                | ASDE6 | 100       | 2     |               |
| Obscure bedstraw         | GAAM2 | 100       | 1     |               |
| Few-fruited biscuit-root | LOMA5 | 100       | 1     |               |
| Common yarrow            | ACMI2 | 88        | 2     |               |