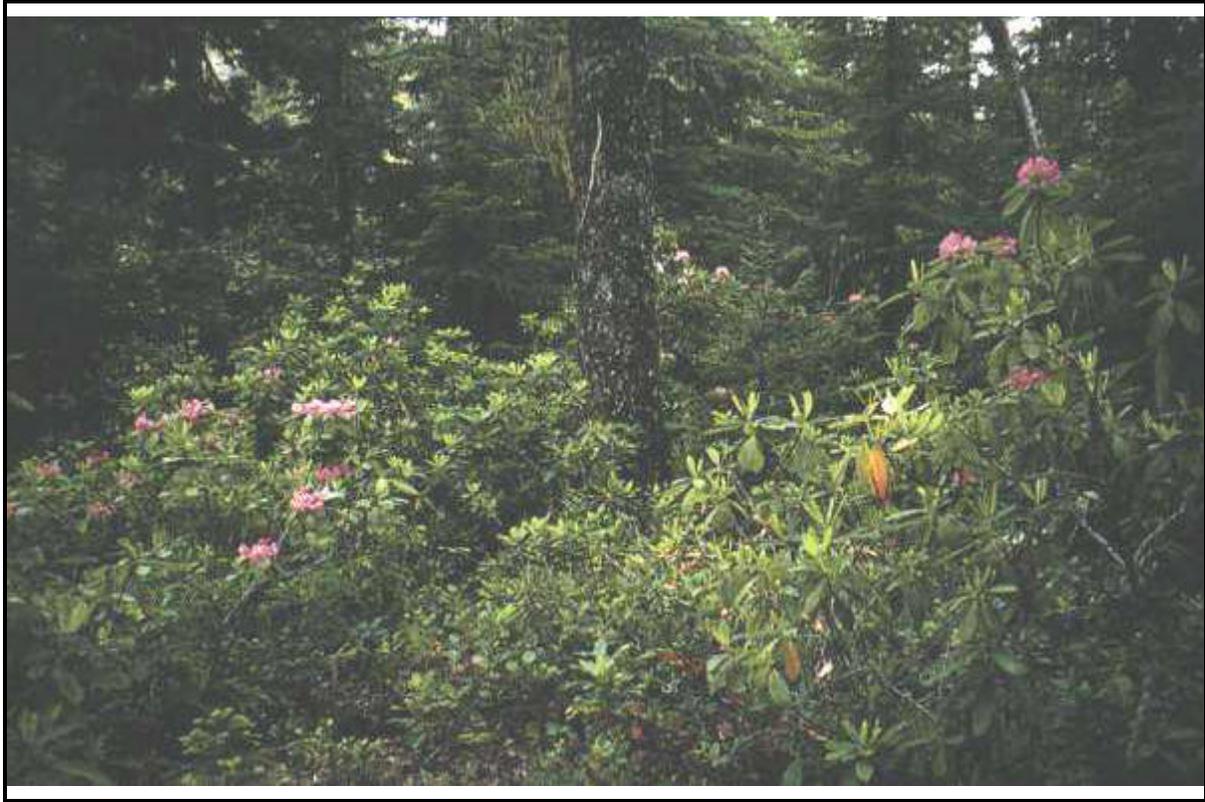


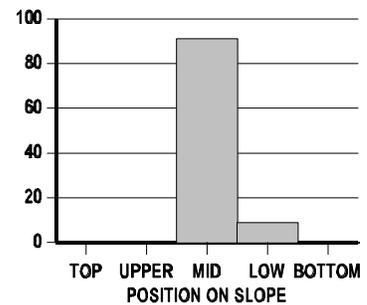
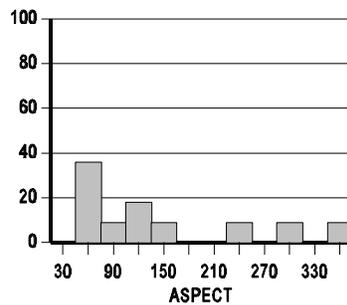
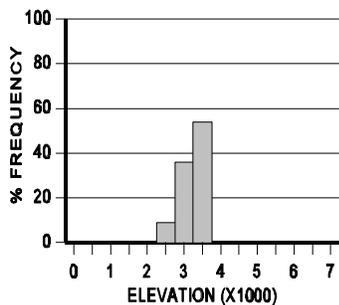
WESTERN HEMLOCK/SADLER OAK-SALAL-PACIFIC RHODODENDRON  
*Tsuga heterophylla/Quercus sadleriana-Gaultheria shallon-Rhododendron macrophyllum*  
 TSHE/QUSA2-GASH-RHMA3 (N=11; BLM=11)



Distribution. This Association occurs in the Grants Pass Resource Area of the Medford District, Bureau of Land Management and may be present on adjacent Forest Service lands.

Distinguishing Characteristics. This Association is characterized by high elevations, high precipitation, and cool temperatures. Pacific rhododendron, Sadler oak, and salal are present. This Association resembles the Western Hemlock-Tanoak/Pacific Rhododendron Association, which has higher precipitation.

Soils. Parent material is most commonly granite, diorite, or sandstone. Based on seven plots sampled, soils are well drained. Textures are sandy loams, sandy clay loams, and silt loams, with 15 to 75 percent rock fragments.



Environment. This Association averages 3420 feet in elevation and aspect is predominantly, though not exclusively, east. Slope averages 49 percent and ranges between 25 and 72 percent. This Association occurs primarily on middle third slope positions.

Vegetation Composition and Structure. Total species richness is very low for the Series, averaging 20 species. The tree layer is dominated by Douglas-fir. Western hemlock, white fir, and sugar pine are frequently present. Port-Orford-cedar is a common associate. The hardwood species are common to occasional, and may consist of golden chinquapin and tanoak. The shrub layer can be dense and may include Pacific rhododendron, salal, Sadler oak, and dwarf Oregongrape. The herbaceous species presence is variable and does not support high cover. Western twinflower is frequently found. Moss cover ranges from 0 to 35 percent, but averages 3 percent.

Stratification of total tree and shrub layer covers differs in this Association (refer to the Methods section). Total tree cover averages 74 percent, and cover of trees less than 10 feet tall (3 meters) averages 24 percent. Shrubs, both greater and less than 20 inches (50 centimeters) tall, average 61 percent cover. Total herb/grass cover averages only 12 percent, but ranges from 2 to 35 percent.

Common name	Code	Constancy	Cover	Avg. Richness
<u>Overstory trees</u>				6
Douglas-fir	PSME	100	35	
Sugar pine	PILA	73	14	
<u>Understory trees</u>				6
Western hemlock	TSHE	90	5	
White fir	ABCO	90	5	
Port-Orford-cedar	CHLA	70	5	
<u>Shrubs</u>				8
Pacific rhododendron	RHMA3	100	32	
Dwarf Oregongrape	BENE2	100	8	
Salal	GASH	91	51	
Sadler oak	QUSA2	91	33	
Red huckleberry	VAPA	73	5	
Pacific blackberry	RUUR	64	1	
Baldhip rose	ROGY	45	1	
<u>Herbs</u>				5
Western twinflower	LIBOL	82	10	
Little prince's-pine	CHME	73	1	
Common prince's-pine	CHUM	64	6	
Common beargrass	XETE	55	6	
Rattlesnake-plantain	GOOB2	45	1	
Western starflower	TRLA6	45	1	