

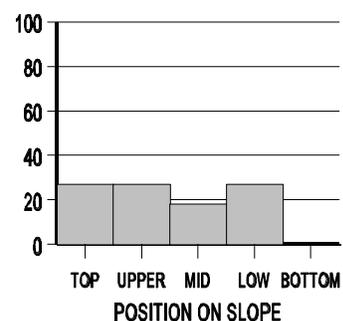
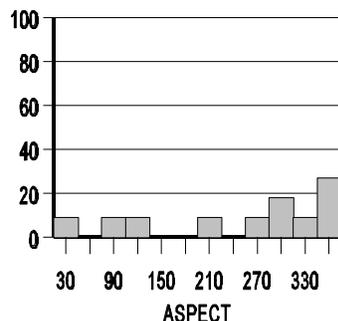
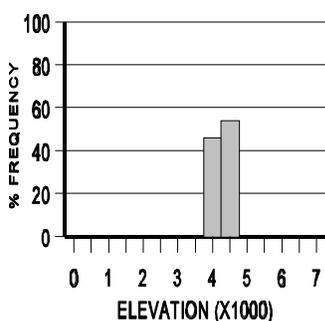
WHITE FIR-BREWER SPRUCE/COMMON PRINCE'S-PINE-WHITEVEIN PYROLA  
*Abies concolor-Picea breweriana/Chimaphila umbellata-Pyrola picta*  
 ABCO-ABMAS/CHUM-ANDE3 (N=11; FS=11)



Distribution. This Association occurs on the Applegate Ranger District, Rogue River National Forest, and the Illinois Valley Ranger District, Siskiyou National Forest.

Distinguishing Characteristics. This Association occurs on the coldest, wettest sites of the Series. It occurs in a narrow elevational band between 4000 and 4500 feet.

Soils. Parent material is mostly a mix of igneous materials, including diorite and gabbro, andesite, basalt, and granite. Average surface rock cover is 19 percent, with 17 percent gravel, 7 percent surface bedrock, and 3 percent bare ground exposure. Soils are shallow to deep, with an average depth of greater than 30 inches. Based on one plot sampled, surface textures are loam, with 60 percent gravel, 5 percent cobbles, and 18 percent clay. Subsurface textures are sandy loam and loamy sand, with 45 percent gravel, 5 to 10 percent cobbles, and 6 to



16 percent clay.

Environment. This Association averages 4490 feet in elevation and occurs on generally north aspects. Slope averages 38 percent and ranges from 12 to 70 percent. This Association occurs on all slope positions, with the exception of bottoms or valleys.

Vegetation Composition and Structure. Total species richness is intermediate for the Series, averaging 32. Douglas-fir and white fir are frequent in the overstory and the understory. Shasta red fir and Brewer spruce are also frequent in the understory. Golden chinquapin and incense-cedar are common. Other hardwoods may include Douglas maple, red alder, tanoak, canyon live oak, and Oregon white oak. In the shrub layer, dwarf Oregon grape and Sadler oak are frequent. Western serviceberry, pinemat manzanita, baldhip rose, and red huckleberry are common. Common prince's-pine, whitevein pyrola and rattlesnake-plantain are frequent in the herb/grass layer. Western twinflower, one-sided pyrola, little prince's-pine, whipplevine, and common beargrass are common. Moss cover is low for the Series, averaging 4 percent.

Upper and mid layer tree covers are intermediate to high for the Series, averaging 63 and 56 percent cover, respectively. Lower layer tree cover averages 51 percent. Shrub cover is very low to intermediate, with high shrub cover averaging only 5 percent and low shrub cover 36 percent. Herb/grass cover ranges from 1 to 70 percent, and averages 25 percent.

Common name	Code	Constancy	Cover	Avg. Richness
<u>Overstory trees</u>				4
Douglas-fir	PSME	100	34	
White fir	ABCO	82	13	
Sugar pine	PILA	55	12	
Shasta red fir	ABMAS	55	3	
<u>Understory trees</u>				8
White fir	ABCO	100	29	
Shasta red fir	ABMAS	100	6	
Brewer spruce	PIBR	100	5	
Douglas-fir	PSME	100	4	
Golden chinquapin	CACH6	64	4	
Incense-cedar	CADE27	64	3	
Sugar pine	PILA	55	1	
Western white pine	PIMO3	55	1	
<u>Shrubs</u>				10
Sadler oak	QUSA2	82	15	
Dwarf Oregon grape	BENE2	82	7	
Pinemat manzanita	ARNE	73	19	
Red huckleberry	VAPA	73	5	
<u>Herbs</u>				14
Common prince's-pine	CHUM	100	5	
Whitevein pyrola	PYPI2	91	1	
Rattlesnake-plantain	GOOB2	82	1	
Little prince's-pine	CHME	73	1	