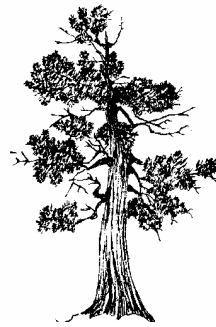

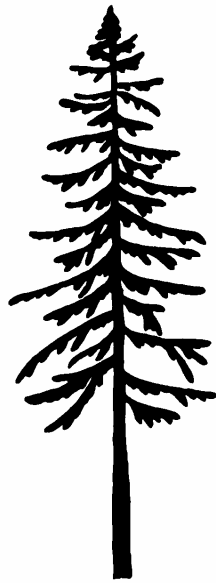

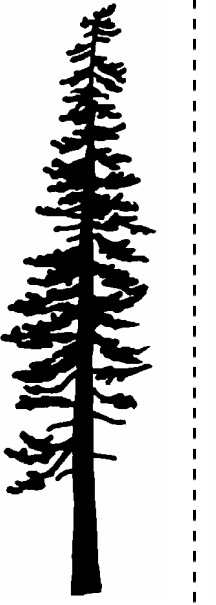

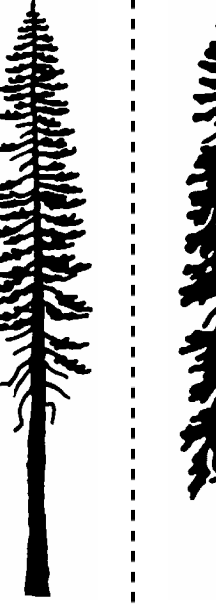















SELECTED LIFE HISTORY TRAITS FOR TEN CONIFER TREES OF THE UMATILLA NATIONAL FOREST

	Western Juniper	Ponderosa Pine	Western Larch	Lodgepole Pine	Interior Douglas-fir	Western White Pine	Grand Fir	Engelmann Spruce	Subalpine Fir	Pacific Yew
										
Shade Tolerance	Intolerant	Intolerant	Very intolerant	Intolerant	Intermediate	Intermediate	Tolerant	Tolerant	Very tolerant	Very tolerant
Successional Status	Early	Early	Early	Early	Mid	Mid	Late	Mid/Late	Late	Late
Fire Resistance	Low/Moderate	High	Very high	Low	Moderate	Moderate	Moderate	Low	Very low	Low
Typical Longevity	300 years	300 years	300 years	100 years	200 years	400 years	200 years	250 years	150 years	250 years
Maximum Height	73 feet	192 feet	192 feet	120 feet	180 feet	200 feet	204 feet	207 feet	153 feet	39 feet
Maximum Diameter	61 inches	70 inches	68 inches	42 inches	80 inches	63 inches	82 inches	68 inches	46 inches	22 inches
Root Disease	Low	Moderate	Low	Moderate	High	Moderate	High	Moderate	Moderate	Low

SELECTED LIFE HISTORY TRAITS FOR TEN CONIFER TREES OF THE UMATILLA NATIONAL FOREST

	Western Juniper	Ponderosa Pine	Western Larch	Lodgepole Pine	Interior Douglas-fir	Western White Pine	Grand Fir	Engelmann Spruce	Subalpine Fir	Pacific Yew
										
Stem Decay	Low	Low	Low	Low	Moderate	Moderate	High	Moderate	High	Moderate
Frost Tolerance	Low	Low	Moderate	High	Low	High	Moderate	High	Moderate	Moderate
Drought Tolerance	High	High	Moderate	Moderate	Moderate	Moderate	Moderate	Low	Low	Low
Snow Damage	Low	Low	Moderate	Moderate	Low	Moderate	Moderate	High	High	High
Heat/Fuel Value	Moderate	Low/Moderate	Moderate/High	Low	Moderate	Low/Moderate	Low	Low	Low	Moderate

Sources: Taken from "Appendix 2: Life History Information" in *Potential Vegetation, Disturbance, Plant Succession, and Other Aspects of Forest Ecology* (D.C. Powell, Technical Publication F14-SO-TP-09-00; May 2000; 88 p.). "Heat/fuel value" was taken from this website: http://egov.oregon.gov/ODA/MSD/fuel_facts.shtml