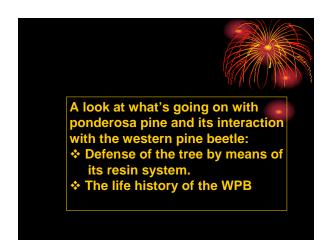
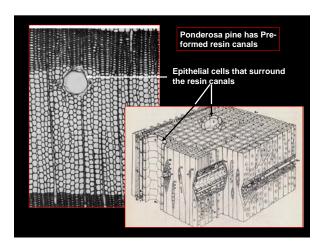
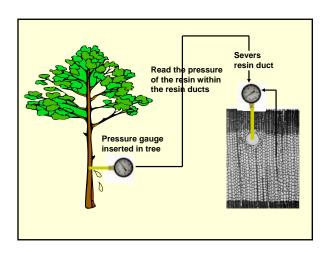


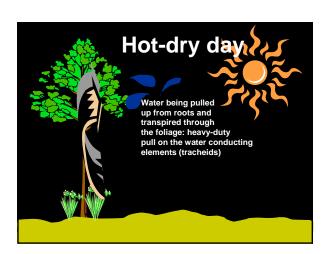
Studies on relationships between fire and WPB infestations							
Table 9.—Studies of bark beetle conditions following fires in ponderosa pine type WESTER PINE BESTLE INTERPATIONS							
Burn	Date and location	Acres	Type of burn and special conditions	Volume of beetle-caused loss pared with loss for yes			
Chinquapin Mistletoe	September 1915, Ashland, Oreg. October 1917, Ashland, Oreg. August 1918, Ash-	220 800 200	Hot ground fire with medium crown injury. Mixed ground and crown fire with varying degrees of defoi- ation.	+475 percent Dicresse +1,150 percent +385 percen +1,700 percent +2,880 perce	t +122 percen		
Northfork	land, Oreg. June 1924, Sierra, N.F.	5, 460	Mixed ground and crown fire with high percent of defoliated trees.	1			
Aspen Lake	July 1926, Kla- math Falls, Oreg. July 1929, Modoe, N.F.	8, 000 5, 000		Slight increase. Normal +326 percent +340 percen			

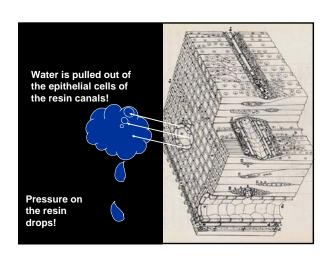


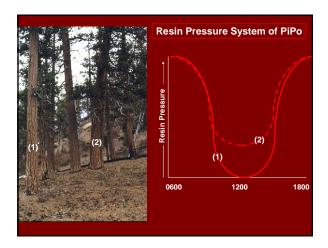


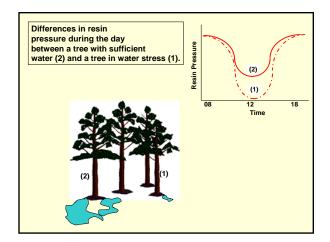


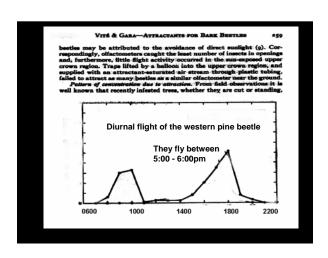


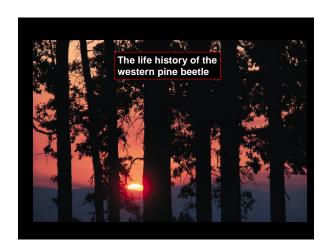


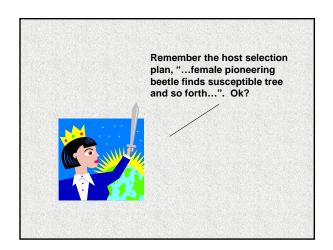


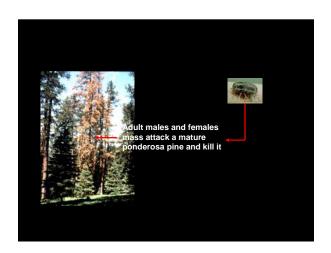




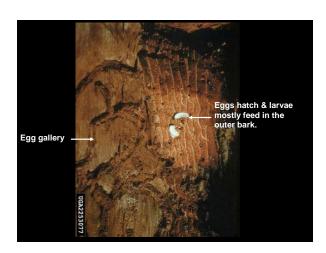










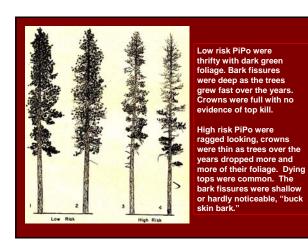


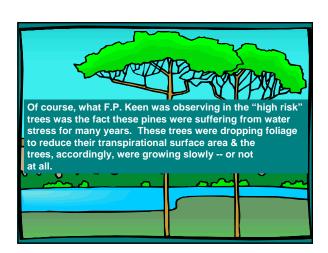


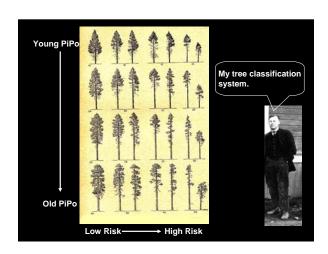


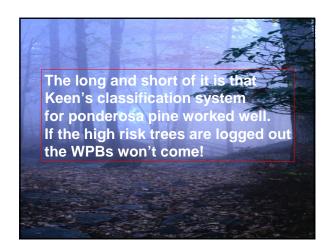


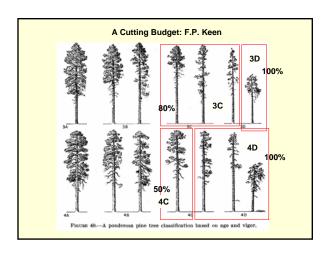
Risk rating	Symptoms
Risk I—Low risk	Full-foliaged, healthy-appearing crowns. Foliage of healthy appearance, needles usually long and coarse, color good dark green. Practically all twigs with normal foliage complement. No weakened parts of crown.
Risk II—Moderate risk.	Fair to moderately healthy crowns, imperfect in spots. Foliage mostly healthy, needle length average or better, color fair to good. Some twigs or branches may lack foliage, but such injury should not be localized to form definite "weat," spots in crown.
Risk III—High risk	Crowns of fair to poor health, somewhat ragged or thin in parts of crown. Foliage in parts of crown thin, bunchy, or unhealthy, needles average to shorter than average in length, color fair to poor. Some to many twigs or branches lacking foliage, some to many twigs or branches fading or dead. Small localized weakened parts of crown usually present.
Risk IV—Very high risk.	Crowns in poor condition, ragged or thin, often showing evidence of active insect infestations in upper parts. Foliage thin or bunchy, needles short or sparse, color poor. Twigs and branches dead or dying, parts of crown definitely weakened. Active top-killing or partial infestations often present.

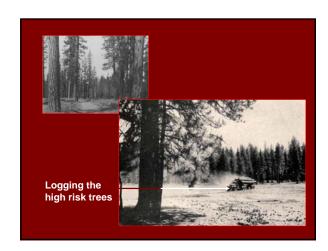












On federal lands today and in the future: • Rotations will be long • Large areas will be in ecological preserves • The western pine beetle will be back on the scene! • A tree salvage system based on Keen's classification will once more serve as a silvicultural system to mitigate WPB damage		
 Large areas will be in ecological preserves The western pine beetle will be back on the scene! A tree salvage system based on Keen's classification will once more serve as a 	On federal lands today and in the future:	
 The western pine beetle will be back on the scene! A tree salvage system based on Keen's classification will once more serve as a 	Rotations will be long	
scene! • A tree salvage system based on Keen's classification will once more serve as a	Large areas will be in ecological preserves	
classification will once more serve as a	·	
Silvicultural system to mitigate web damage	classification will once more serve as a	
	Silvicultural System to miligate WPB damage	
		-