



ASHLEY NATIONAL FOREST

Duchesne and Roosevelt Ranger Districts
2013 Aerial Insect and Disease Detection Survey

1:126,720
0 1.5 3 6 9 12 Miles

INSECT & DISEASE ACTIVITY

BARK BEETLES		Mortality	
Mountain Pine Beetle (MPB)	Ponderosa pine	1-4	5-14
	Lodgepole pine	15+ Trees	
Douglas-fir Beetle (DFB)	Lumber pine	□ 20	□ 20
Spruce Beetle (SB)	Douglas-fir	○ 20	○ 20
Fir Engrafer Beetle	Spruce spp	● 20	● 20
<i>Ips confusus</i>	True fir	▲ 20	▲ 20
	Pinyon pine	◆ 20	◆ 20

MORTALITY & DISEASE

Subalpine Fir Mortality	Subalpine fir	● 20	○ 20
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DEFOLIATORS

Decline -Aspen	Light	Heavy	Stand decline	Light <50%	Heavy >50%
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DUAL CODES:
SAF mort / SB

ADDITIONAL SYMBOLS AND DAMAGE AGENTS

Survey	Boundary	Area	# - Trees affected	#A - Trees/Acre affected	Aspen	-Asp	Ponderosa pine	-P
					Aspen	-DF	Spruce	-S
					Larch	-L	Subalpine fir	-SAF
					Lumber pine	-X	Whitebark pine	-WBP
					Lodgepole pine	-LP		

Aerial Insect & Disease Detection Surveys

Aerial insect and disease detection surveys are conducted annually to detect and monitor annual, visible, vegetation damage primarily caused by insects. Aerial detection surveys are intended to detect new activity, to monitor the trend of ongoing activity, to provide general location information, and to subjectively rate levels of defoliation. These flights are conducted in a joint partnership between the USDA Forest Service, Idaho Department of Lands, and The Nevada Division of Forestry.

Data represented on this map are based on trees visibly affected by forest insects, as detected by aerial observers. Most bark beetle-killed trees are not typically symptomatic (faded foliage that is yellow, orange, or brown) until nearly a year following beetle attack. Therefore, the numbers of trees killed by bark beetles, as indicated on this map, are a reflection of last year's mortality. The numbers do not reflect the current year's beetle population or number of currently attacked trees.

Observers have just a few seconds to recognize, identify, and document observed activity. Air turbulence, cloud shadow, haze, smoke, and observer experience can all affect the quality of the survey.

*****Disclaimer*****

Insect and disease data should be used only as an indicator of insect and disease activity, and should be ground-truthed for actual location and causal agent. Polygons indicate locations of tree mortality, defoliation, and/or other damage. Intensity of damage is variable, and not all trees and areas indicated are dead or damaged. The joint cooperators reserve the right to correct, modify, update, or replace the data as necessary. Using this data for purposes other than those for which it was intended may yield inaccurate or misleading results.