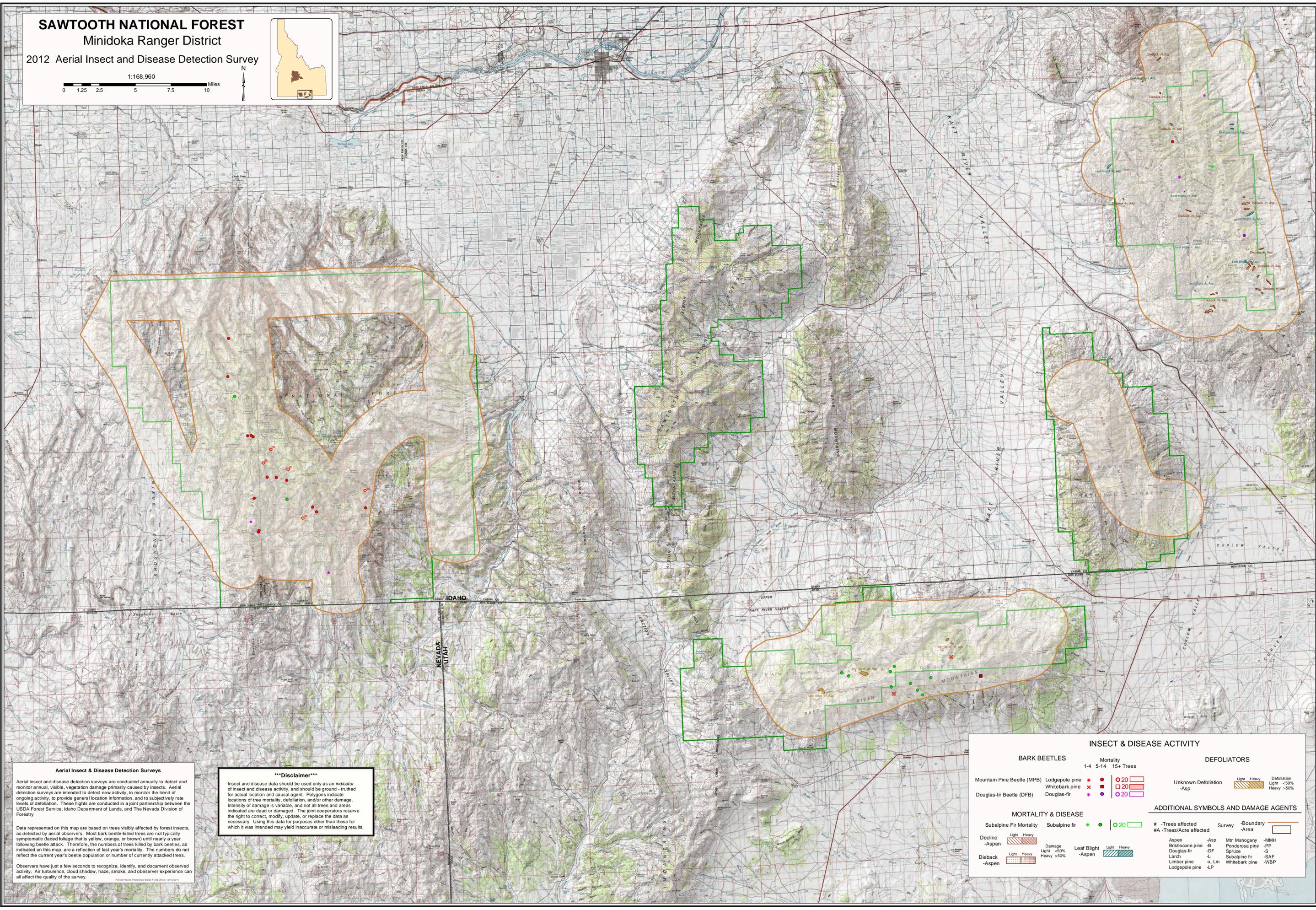
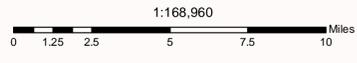


SAWTOOTH NATIONAL FOREST

Minidoka Ranger District

2012 Aerial Insect and Disease Detection Survey



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.

INSECT & DISEASE ACTIVITY

BARK BEETLES

	Mortality	1-4	5-14	15+ Trees
Mountain Pine Beetle (MPB)	Red star	Red circle	Red square	Red rectangle
Whitebark pine	Black star	Black circle	Black square	Black rectangle
Douglas-fir Beetle (DFB)	Purple star	Purple circle	Purple square	Purple rectangle
Lodgepole pine	Red star	Red circle	Red square	Red rectangle
Douglas-fir	Purple star	Purple circle	Purple square	Purple rectangle

DEFOLIATORS

Unknown Defoliation	Light	Heavy	Defoliation
-Asp	Light	Heavy	>50%

MORTALITY & DISEASE

Subalpine Fir Mortality	Light	Heavy	Subalpine fir	Light	Heavy	Leaf Blight	Light	Heavy
-Aspen	Light	Heavy	Damage	Light	Heavy	-Aspen	Light	Heavy
Dieback	Light	Heavy	Light	<50%	Heavy	>50%		

ADDITIONAL SYMBOLS AND DAMAGE AGENTS

# -Trees affected	Survey	-Boundary
#A -Trees/Acre affected	-Area	
Aspen	-Asp	Mtn Mahogany
Bristlecone pine	-B	Ponderosa pine
Douglas-fir	-DF	Spruce
Larch	-L	Subalpine fir
Limber pine	-Lm	Whitebark pine
Lodgepole pine	-LP	
		-MMH
		-PP
		-S
		-SAF
		-WBP