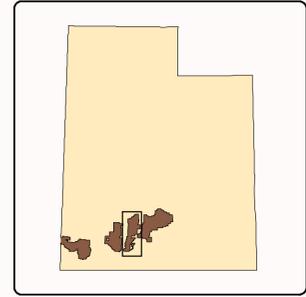


DIXIE NATIONAL FOREST

Powell Ranger District

2013 Aerial Insect and Disease Detection Survey

1:126,720



INSECT & DISEASE ACTIVITY

BARK BEETLES

Mountain Pine Beetle
Western Pine Beetle
Douglas-fir Beetle
Fir Engraver Beetle
Ips confusus
Spruce Beetle

Limber pine
Ponderosa pine
Douglas-fir
True fir
Pinyon pine
Spruce sp.



MORTALITY & DISEASE

Subalpine Fir Mortality
Decline -Aspen



Stand decline
Light <50%
Heavy >50%

DEFOLIATORS

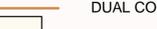
Western Spruce Budworm
-Douglas-fir, True fir



Defoliation
Light <50%
Heavy >50%

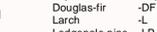
ADDITIONAL SYMBOLS AND DAMAGE AGENTS

Survey -Boundary
-Area



DUAL CODES

-Trees affected
#A -Trees/Acre affected



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.

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.

