

# DIXIE NATIONAL FOREST

Cedar City Ranger District

## 2012 Aerial Insect and Disease Detection Survey

1:126,720



### INSECT & DISEASE ACTIVITY

#### BARK BEETLES

Mountain Pine Beetle (MPB) Limber pine  
 Douglas-fir Beetle (DFB) Douglas-fir  
 Fir Engraver Beetle (FEB) True fir  
 Spruce Beetle Spruce  
 Western Pine Beetle (WPB) Ponderosa pine

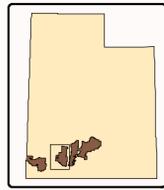
Mortality

1-4 5-14 15+ Trees

△20 ○20 ●20

○20 ●20 ○20

○20 ●20 ○20



#### MORTALITY & DISEASE

Subalpine Fir Mortality

Decline -Aspen Low High Stand decline Light <50% Heavy >50%

Unknown Defol. -Asp, DF, SAF Low High Defoliation Light <50% Heavy >50%

#### DEFOLIATORS

Western Spruce Budworm -DF, True fir

Light Heavy Defoliation Light <50% Heavy >50%

#### ADDITIONAL SYMBOLS AND DAMAGE AGENTS

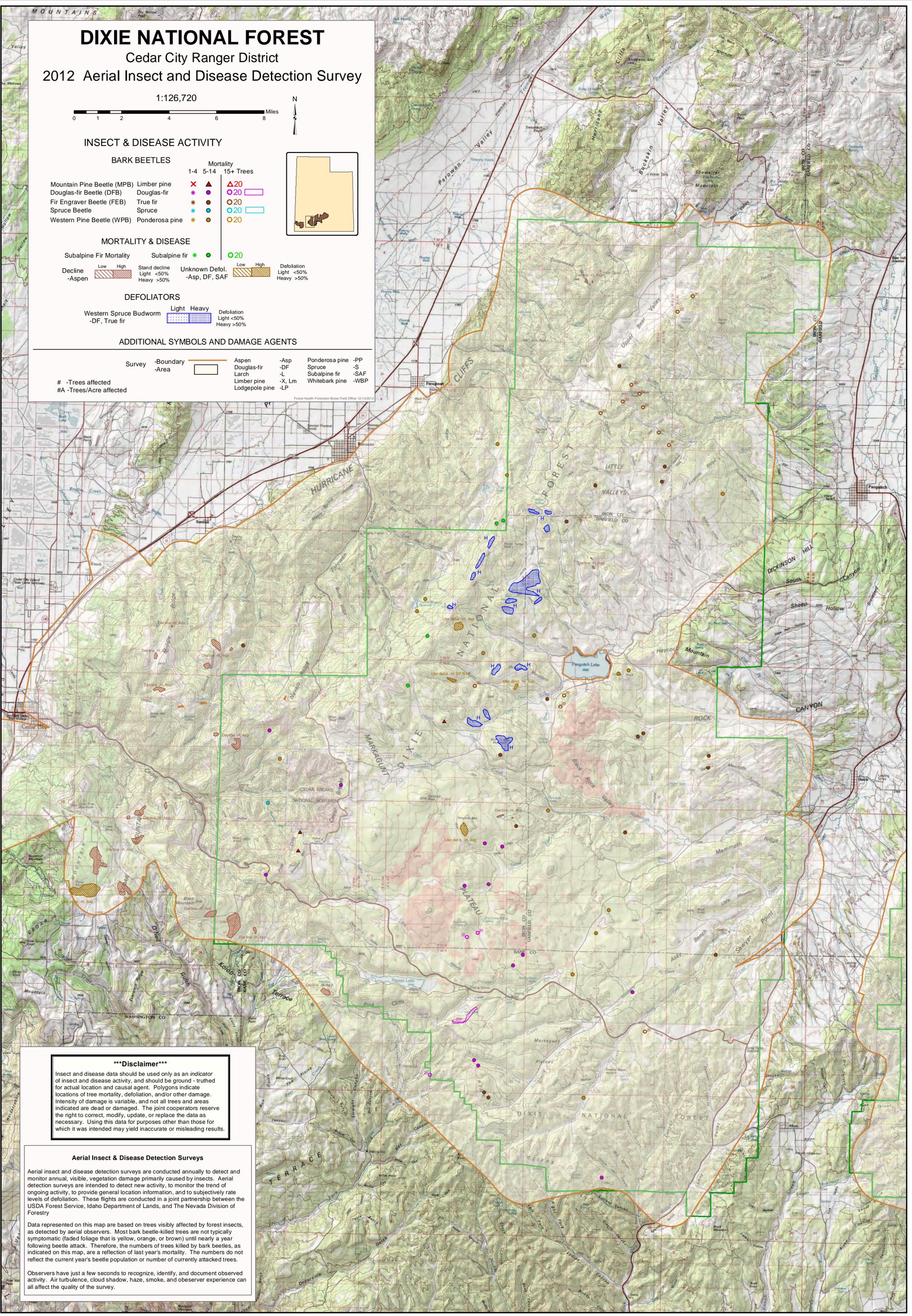
Survey -Boundary -Area

Aspen -Asp Douglas-fir -DF Larch -L Limber pine -X, Lm Lodgepole pine -LP

Ponderosa pine -PP Spruce -S Subalpine fir -SAF Whitebark pine -WBP

# -Trees affected  
 #A -Trees/Acre affected

Forest Health Protection-Botula Field Office 12/13/2012



### \*\*\*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.