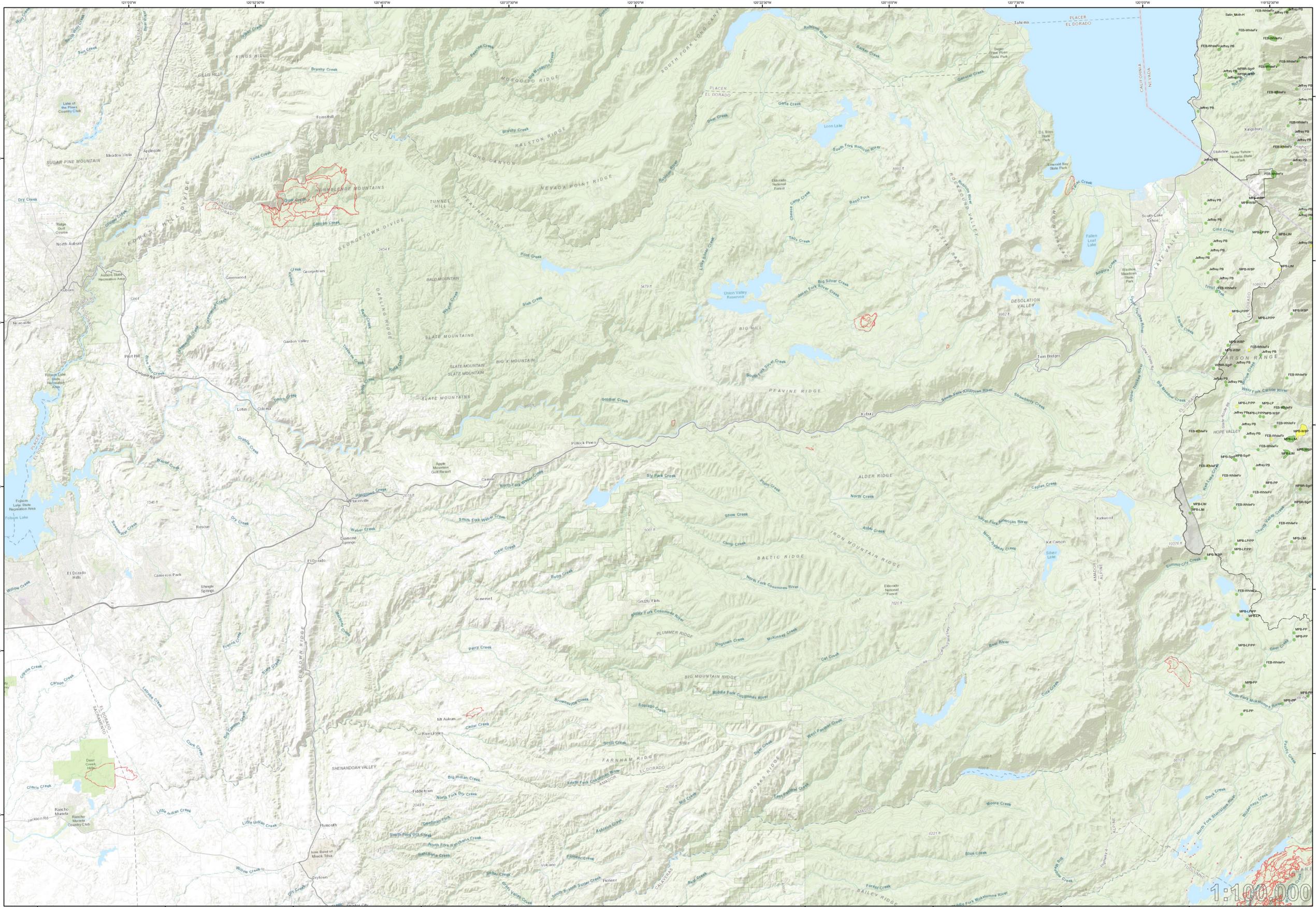


2018 Aerial Insect and Disease Survey Placerville, California



Legend

Damage Points
Number of Trees

- 1 - 5
- 6 - 30
- > 30

Damage Polygons
Percent Affected

- Light (1-10%)
- Moderate (11-50%)
- Severe (>50%)
- Not flow
- Fire Perimeters (2015 - 2017)

CODING SYSTEM
Codes have two parts: the first represents the causal agent and the second represents the host. If needed, the two-part code is followed by an 'M' or 'H' to indicate severity of the activity. Data is color coded to represent the intensity of activity as seen in the legend.

Examples:
MPB-LPP represents mountain pine beetle in Lodgepole pine.
WSB-DF-SAF-H represents western spruce budworm infestation in subalpine fir/Douglas-fir mix with >75% of leaves defoliated.

Causal Agent Codes	Host Codes
Avalanch-All Avalanch	ASP Aspen
Blight Blight	BMB Rocky Mtn bristlecone pine
Flood Flooding-high water	BLK Black cottonwood
FRST Frost (ASP)	CON Unknown conifer
Und 38-All Mud and silt	DF Douglas fir
ASP Decline Aspen Decline	ES Engelmann spruce
ASP Dieback Aspen Dieback	HW Unknown hardwood
Man, Man B Manosona blight	UM Limber pine
Bark Beetles	LP, LPP Lodgepole pine
DFB Douglas fir beetle	NS Nevada pinyon
DFB Engelmann spruce beetle	PP Ponderosa Pine
FEB Fir engraver beetle	PF Red fir
IPS Pine engraver beetle	SF Subalpine fir
Jeffrey PB Jeffrey pine beetle	SGP Sugar pine
MPB Mountain pine beetle	PV-UT Utah pinyon, common or two-needle pinyon
W888 Western balsam bark beetle (SAF)	WSP Whitebark pine
West PB Western pine beetle (PP)	WWP Western white pine
Defoliate	Miscellaneous
77Def Defol Unknown defoliator	H Defoliation - Heavy (>75% of leaves defoliated)
BWA Balsam woolly adelgid	M Defoliation - Moderate (50-75% of leaves defoliated)
CMW-LB Cottonwood leaf beetle	TK, TK Top kill
OTM Douglas fir tussock moth	FLAG Flagging
FTC Tent caterpillar (ASP)	MORT Mortality
Satin_Moth Satin moth	ALL All tree species
Scale Prionus tree scale	
Budworm Western pine budworm	
WSB Western spruce budworm	
Disease	
77Dsc Unknown Foliage or Shoot Disease	
77Mrt Unknown mortality	
77Wm Unknown rust	
BlkStn Black stain foot disease	
DF-Nd_Cast Needle cast	
FRB Fir broom rust (SAF)	
Lupin Lophodermium needle cast (LPP)	
SAF-Mrt_Cmpx SAF Mortality Complex	
WPBR White pine blister rust	
NSBln Needle blight (CON)	

Region 4 - Location Map

USGS 100K Quad
USGS 100K TOPO: 38120-E1
Placerville, California

Legend

- Counties
- Flow
- R4 Boundary

HOW THE AERIAL SURVEYS ARE CONDUCTED

Data represented on this map are based on trees visibly affected by forest insects, diseases and abiotic factors that are detected and recorded by observers during aerial survey flights. These flights are conducted by a joint partnership between the USDA Forest Service and state cooperators.

Observers have just a few seconds to recognize characteristic signatures of healthy and damaged trees of different species, correctly diagnose damage causal agents, estimate the intensity or extent of damage, and precisely record information on a digital sketch mapping platform. Air turbulence, cloud shadow, haze, smoke, and observer experience can affect the quality of the survey. These sketchmaps and the resultant data summaries provide an estimate of conditions on the ground, and may differ from estimates derived by other methods.

Annual aerial surveys provide important information on the current status of detected causal agents and can be used to determine trends in damage levels over time by comparing previous and current survey data over large areas.

Map Created: 2/14/2019
Projection: UTM NAD83 Zone 10S
Author: R1/R4 FHP GIS, USDA Forest Service

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DISCLAIMER

The digital map layer upon which the insect and disease data are presented vary in both source and scale, therefore, accuracy is not guaranteed.

The 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.