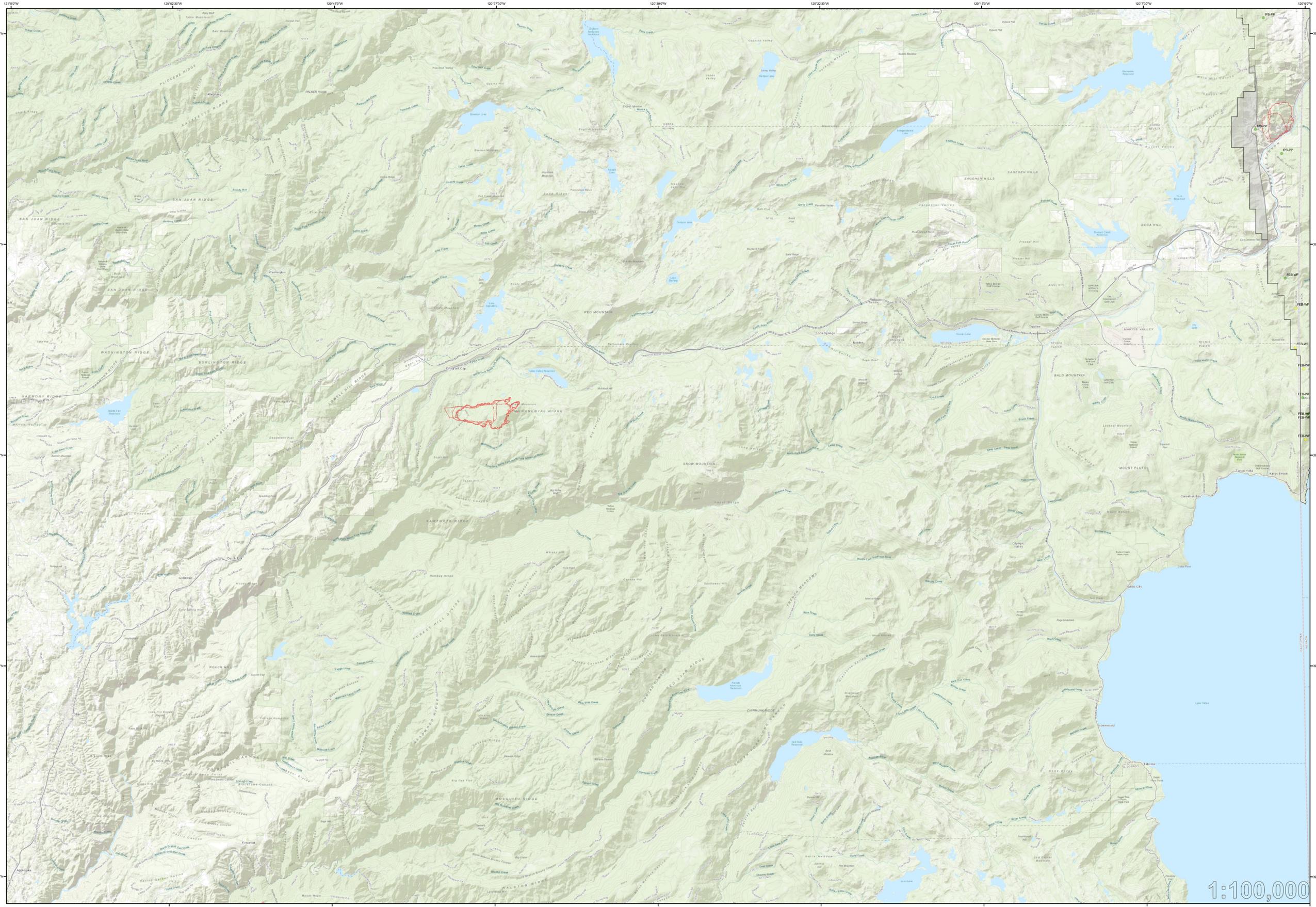
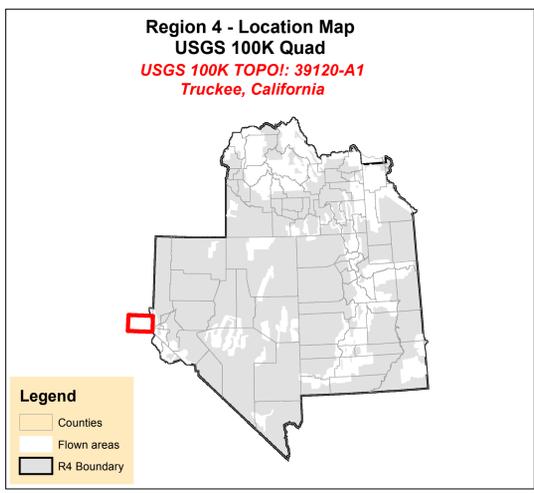


2019 Aerial Insect and Disease Survey Truckee, California



Legend	
Damage Points	
Number of Trees	
● 1 - 5	
● 6 - 30	
● > 30	
Damage Polygons	
■ Light (1-10%)	
■ Moderate (11-50%)	
■ Severe (>50%)	
■ Not flown	
■ Fire Perimeters (2016 - 2018)	
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
Abiotic	ASP Aspen
ASP Defol Aspen Defoliation	COT Cottonwood
ASP Diebck Aspen Dieback	DF Douglas-fir
ASP Mort Aspen Mortality	GF Grand fir
Avntrch Avalanche	HWI Hardwood
Drgt Drought	JN Jeffrey pine
Flood Flooding-high water	JUN Juniper
Lnd Slid Land Slide	LIM/WBP Limber pine / Whitebark pine
Bark Beetles	LP Lodgepole pine
DFB Douglas-fir beetle	OAK Oak
ESB Engelmann Spruce beetle	PP Ponderosa pine
FEB Fir engraver beetle	PY Piñon
IPS Pine engraver beetle	RF Red Fir
JEFFrey PB Jeffrey Pine Beetle	SAF Subalpine fir
MPS Mountain pine beetle	WFL Western larch
RndHd PB Roundhead Pine Beetle	WIL Willow
WPB Western pine beetle	Miscellaneous
Defoliators	Defol De-foliation
BWA Balsam woolly adelgid	M De-foliation - Moderate (50-75% of leaves defoliated)
DFTM Douglas-fir Tussock Moth	H De-foliation - Heavy (>75% of leaves defoliated)
FCW Fall Cankerworm	Disc Discoloration
FTC Forest Tent Caterpillar	Flag Flagging
Manrossina Manrossina	INV Nevada
Satin_Moth Satisfin Moth	Rust Rust
WSB Western Spruce Budworm	TKP Top kill
WtentCat Western Tent Caterpillar	UT Utah
Disease	
Blk Pleaf Black Pineleaf	
Lopho Lophodermella needle cast (LPP)	
Sd Scale	
SAF Decl Sub Alpine Fir Decline	
WPBR White pine blister rust	



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: 2/4/2020
Projection: UTM NAD83 Zone 10S
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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.