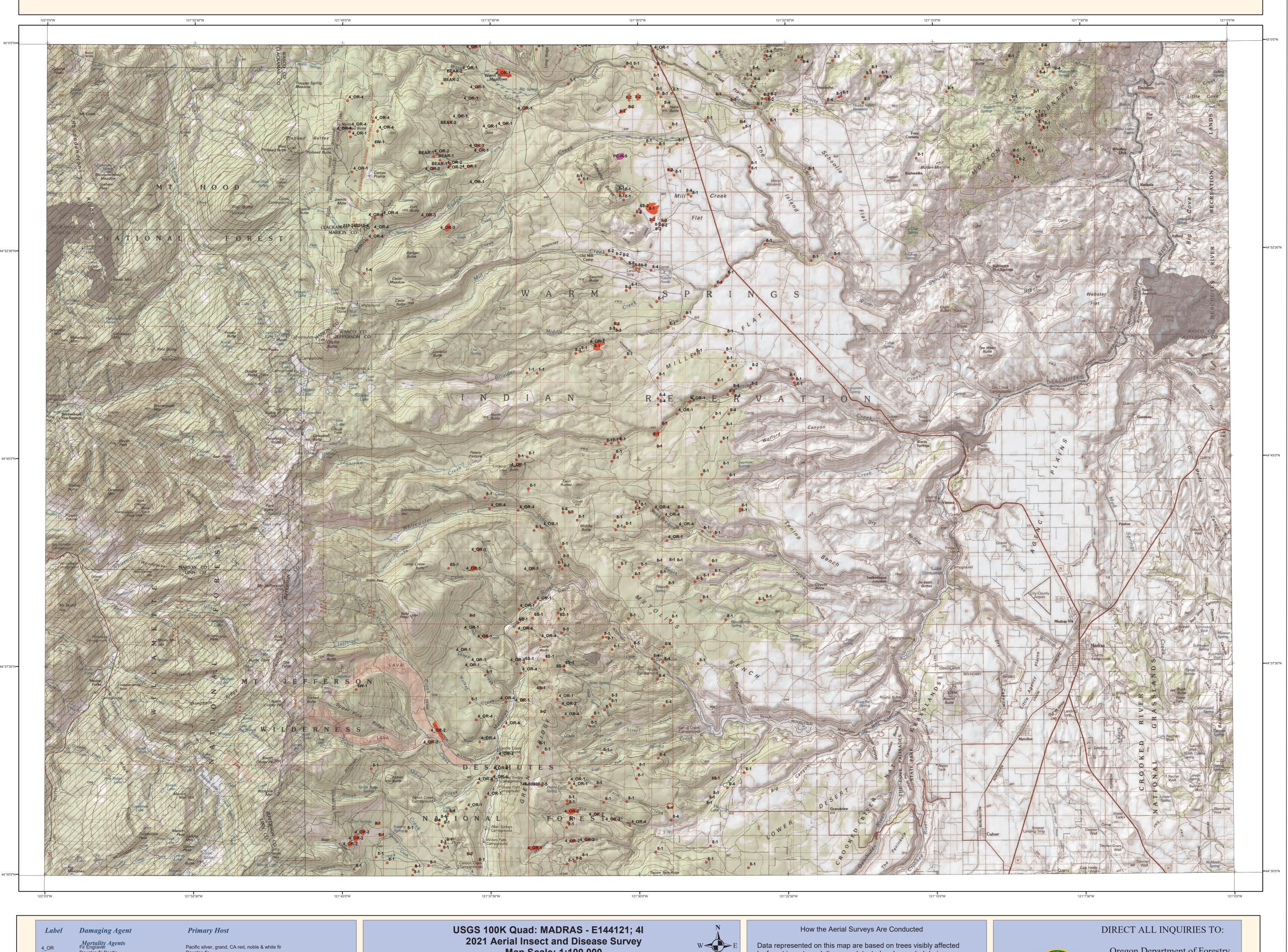
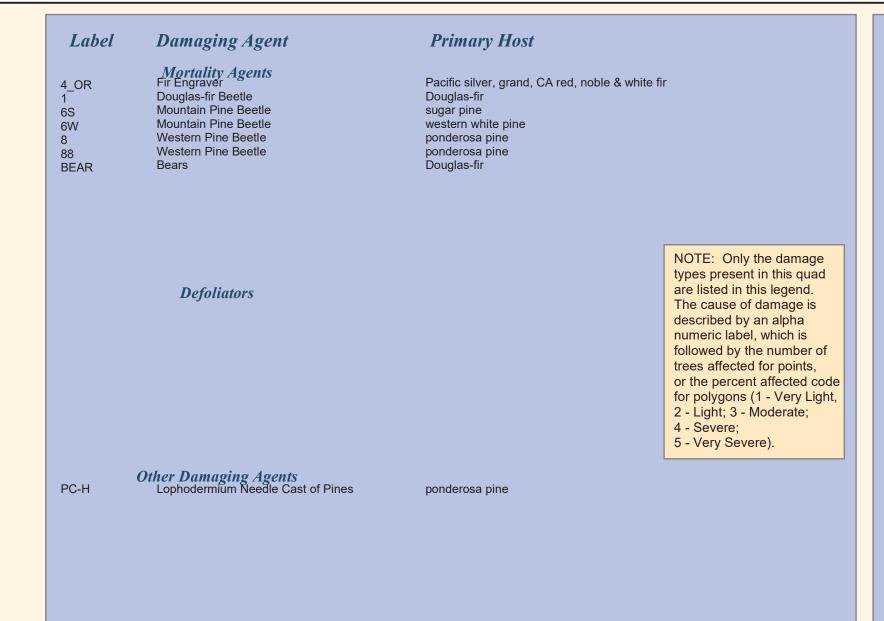
2021 Aerial Insect and Disease Survey USGS 100K Quad: MADRAS - E144121; 41





Map Scale: 1:100,000 Date: 28 December 2021 **Damage Points** Areas Not Flown During Aerial Survey 2021 Wildfires > 100 acres Mortality Defoliation WDNR Managed Lands Unknown Damage Damage Areas Mortality Defoliation Vicinity Map Unknown Damage The basemap is an ESRI map service of TOPO! data A data dictionary, digital copies (Copyright 2013 National Geographic) which is of this map and geospatial insect comprised of seamless, scanned images of USGS and disease data are available at: paper topographic maps. For more info on this map http://www.fs.usda.gov/detail/r6/ see http://goto.arcgisonline.com/maps/USA_Topo_Maps. forest-grasslandhealth/insects-diseases/

by forest insects and diseases detected and recorded during aerial survey flights conducted by the USDA Forest Service, the Washington Department of Natural Resources and the Oregon Department of Forestry. Observers have just a few seconds to recognize the color difference between healthy and damaged trees of different species; diagnose causal agents correctly; estimate intensity; delineate the extent of damage; and precisely record this information on a georeferenced, digital map. Air turbulence, cloud shadows, distance from aircraft, haze, smoke and observer experience can all affect the quality of the survey. These data summaries provide an estimate of conditions on the ground and may differ from estimates derived by other methods.

The aerial survey provides information on the current status for many causal agents and is important when examining insect activity trends by comparing historical and current survey data over large areas.

Overview surveys are a 'snap shot' in time and therefore may not be timed to accurately capture the true extent or severity of a particular disturbance activity. Specially designed surveys with modified flight patterns and timing may be conducted to more accurately delineate the extent and severity of a particular disturbance agent. Special surveys, such as Swiss needle cast surveys, are conducted when resources are available to address situations of sufficient economic, political or environmental importance.

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Forest Health Management
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-- OR --



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DISCLAIMER

Forest Health Protection (FHP), Washington Department of Natural Resources (WDNR) and Oregon Department of Forestry (ODF) strive to maintain an accurate Aerial Detection Survey (ADS) Dataset, but due to the conditions under which the data are collected FHP, WDNR and ODF shall not be held responsible for missing or inaccurate data. ADS are not intended to replace more specific information. An accuracy assessment has not been done for this dataset; however, ground checks are completed in accordance with local and national guidelines: http://www.fs.fed.us/foresthealth/aviation/quality assurance.shtml. Maps and data may be updated without notice. Please cite: "USDA Forest Service, Forest Health Protection; Washington Department of Natural Resources, Wildfire Division, Forest Health; and Oregon Department of Forestry, Forest Health Management" as the source of this data.