



AERIAL DETECTION SURVEY REPORT

For reporting by the Tree Mortality Task Force based on data recorded and shared by the USDA Forest Service R5 State & Private Forestry Aerial Detection Survey Program.

All numbers are preliminary estimates and are subject to change. Numbers of dead conifer trees reported are estimated to the nearest hundred or thousand as appropriate.

SUMMARY FOR MAY 15-19, 2016 EARLY SEASON SURVEY

Report Date	June 20, 2016
Report #	1
Flight Dates	5/15/2016 - 5/19/2016
General Area Flown	
West slope of the Sierra Nevada foothills from Shasta County to Kern County; Transverse Range in Los Angeles and Ventura Counties, the Tehachapi Mountains in Los Angeles and Kern Counties; and the southern coastal ranges in Santa Barbara and San Luis Obispo Counties.	
Acres Surveyed During This Reporting Period	
4,500,000	
Acres With New Conifer Mortality	
876,000	
Estimated Number of Dead Conifer Trees	
27,000,000	



Figure 1. Mixed conifer mortality south of Shaver Lake, High Sierra Ranger District, Sierra National Forest.



Figure 2. High levels of ponderosa pine, white fir and other conifer mortality southeast of Bass Lake Reservoir, Bass Lake Ranger District, Sierra National Forest.

*Questions regarding this report should be directed to Sheri Smith at ssmith11@fs.fed.us or 530.252.6667.



To reduce potential for overestimating new mortality, trees per acre (TPA) values, used to estimate number of dead conifers, were adjusted in areas where there was overlap between the 2015 regular survey and the 2016 May survey. In addition, approximately 139,000 acres of oak mortality encompassing 1,600,000 dead oaks were not included in the Tables below.

RESULTS BY NATIONAL FOREST

NATIONAL FOREST	Acres with New Conifer Mortality	Estimated Number of Dead Conifer Trees
Angeles National Forest	1,000	18,000
Eldorado National Forest	2,000	30,000
Lassen National Forest	7,000	88,000
Los Padres National Forest	20,000	178,000
Plumas National Forest	2,000	7,000
Sequoia National Forest	224,000	7,200,000
Shasta-Trinity National Forest	200	700
Sierra National Forest	216,000	8,000,000
Stanislaus National Forest	45,000	1,600,000
Tahoe National Forest	700	4,000

RESULTS BY COUNTY

COUNTY	Acres with New Conifer Mortality	Estimated Number of Dead Conifer Trees
AMADOR	15,000	222,000
BUTTE	8,000	37,000
CALAVERAS	31,000	693,000
EL DORADO	20,000	177,000
FRESNO	126,000	5,800,000
KERN	82,000	2,200,000
LOS ANGELES	1,000	19,000
MADERA	126,000	3,800,000
MARIPOSA	114,000	3,200,000
NEVADA	9,000	53,000
PLACER	2,000	6,000
SAN LUIS OBISPO	200	4,000
SANTA BARBARA	3,000	20,000
SHASTA	13,000	119,000
TEHAMA	6,000	37,000
TULARE	240,000	8,100,000
TUOLUMNE	68,000	2,500,000
VENTURA	9,000	60,000
YUBA	3,000	22,000

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