



2018 Tree Mortality Aerial Detection Survey Results

U.S. Forest Service, Pacific Southwest Region

California Tree Mortality (all lands)	
Total Acres With Mortality 2018	2.0 million
New Acres Observed in 2018 (not surveyed as damaged in 2010-2017)	0.8 million
Percent New Acres in 2018	40%
Cumulative Acres With Mortality 2010-2018	9.6 million
Dead Trees 2010-2018	
Dead Trees 2018	147.6 million
Dead Trees 2017	18.6 million
Dead Trees 2016	27 million
Dead Trees 2015	62 million
Percent change from last year	-32%

Acres of Tree Mortality in California's Ten High Priority Counties		
County	2010-2018	2018
<i>Rounded to the nearest 1000</i>		
Amador	93,000	15,000
Calaveras	181,000	22,000
El Dorado	403,000	41,000
Fresno	641,000	170,000
Kern	363,000	20,000
Madera	394,000	86,000
Mariposa	326,000	47,000
Placer	244,000	65,000
Tulare	862,000	200,000
Tuolumne	526,000	91,000
Total	4,033,000	757,000

Acres of Tree Mortality in National Forests in California's Ten High Priority Counties		
National Forest	2010-2018	2018
<i>Rounded to the nearest 1000</i>		
Eldorado	296,000	72,000
LTBMU	44,000	14,000
Sequoia	654,000	142,000
Sierra	787,000	206,000
Stanislaus	447,000	75,000
Tahoe	297,000	94,000
Total	2,525,000	603,000

County	Estimated Cumulative Number of Dead Trees High Priority Counties									
	<i>Totals Rounded to the nearest 1000</i>									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	All Years
Amador	7,000	2,000	600	2,000	17,000	79,000	682,000	276,000	99,000	1,164,600
Calaveras	8,000	2,000	2,000	4,000	144,000	237,000	1,875,000	1,016,000	211,000	3,499,000
El Dorado	53,000	19,000	5,000	11,000	47,000	200,000	1,359,000	1,371,000	614,000	3,679,000
Fresno	82,000	59,000	82,000	65,000	269,000	4,300,000	11,912,000	4,385,000	3,504,000	24,658,000
Kern	79,000	18,000	8,000	23,000	176,000	3,300,000	2,994,000	387,000	114,000	7,099,000
Madera	15,000	8,000	6,000	31,000	55,000	1,900,000	8,972,000	3,327,000	1,145,000	15,459,000
Mariposa	18,000	10,000	21,000	72,000	68,000	1,200,000	6,562,000	1,497,000	585,000	10,033,000
Placer	90,000	16,000	5,000	5,000	21,000	80,000	557,000	709,000	304,000	1,787,000
Tulare	234,000	46,000	57,000	67,000	272,000	6,800,000	12,957,000	4,808,000	3,709,000	28,950,000
Tuolumne	39,000	15,000	45,000	83,000	287,000	997,000	6,213,000	2,721,000	731,000	11,131,000
Total	625,000	195,000	231,600	363,000	1,356,000	19,093,000	54,083,000	20,497,000	11,016,000	107,459,600

National Forest	Estimated Cumulative Number of Dead Trees on Select National Forests									
	<i>Rounded to the nearest 1000</i>									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	All Years
Eldorado	78,000	21,000	5,000	7,000	62,000	210,000	1,028,000	1,251,000	571,000	3,233,000
LTBMU	15,000	6,000	1,000	1,000	6,000	35,000	72,000	168,000	94,000	398,000
Sequoia	191,000	33,000	63,000	89,000	323,000	6,130,000	10,147,000	3,480,000	2,404,000	22,860,000
Sierra	82,000	66,000	72,000	103,000	190,000	5,900,000	18,563,000	6,836,000	3,712,000	35,524,000
Stanislaus	49,000	15,000	55,000	81,000	414,000	1,251,000	4,896,000	2,240,000	671,000	9,672,000
Tahoe	165,000	42,000	21,000	9,000	30,000	93,000	358,000	641,000	387,000	1,746,000
Total	580,000	183,000	217,000	290,000	1,025,000	13,619,000	35,064,000	14,616,000	7,839,000	73,433,000