PUBLIC HEALTH & SAFETY IMPACTS FROM THE TREE MORTALITY EMERGENCY
TREE MORTALITY PROGRESSION

2013
1.3 million trees

2014
3.2 million trees
TREE MORTALITY PROGRESSION

2015
29 million trees

2016
62 million trees
CURRENT SITUATION

- 102 million dead trees statewide since 2010
- 76 million dead trees in high priority counties
- 2017 tree mortality data expected soon
**HIGH HAZARD ZONES**

- **Tier 1 HHZ =** Areas where critical infrastructure and mortality coincide
  - 957,213 acres
  - 14.6 million dead trees in Tier 1 HHZ (2012-2016)

- **Tier 2 HHZ =** Watersheds with significant mortality and community or natural resource assets.
5.5 million hazardous (life threatening) trees have been identified

- 2/3 on Forest Service Land
- 1/3 on Private lands
PUBLIC HEALTH AND SAFETY IMPACTS
COMMUNITIES

Blue Lake Springs, Calaveras County
April 2017
PUBLIC HEALTH AND SAFETY IMPACTS
COMMUNITIES

Madera County
PUBLIC HEALTH AND SAFETY IMPACTS
COMMUNITIES

Tuolumne County, 2016
PUBLIC HEALTH AND SAFETY IMPACTS
ROADS

Blue Lake Springs, Calaveras County
April 2017
PUBLIC HEALTH AND SAFETY IMPACTS ROADS

Fresno County, 2016

Mariposa County, 2016
“Adult, child critically injured when tree limb falls on Highway 120.”

Modesto Bee – September 5, 2017
PUBLIC HEALTH AND SAFETY IMPACTS RECREATION

Photos courtesy of USFS
“Woman killed by falling 200-foot tree at Half Dome Village in Yosemite National Park.”

Los Angeles Times – March 6, 2017
PUBLIC HEALTH AND SAFETY IMPACTS WORKERS
PUBLIC HEALTH AND SAFETY IMPACTS
WORKERS

“Local 1245 Tree Trimmer Dies in Work Accident”
IBEW 1245
Mariposa County
December 2016

“Worker Killed In Tree Falling Accident”
Ledger Dispatch
Calaveras County
April 2017

“Cal/OSHA Investigates Four Recent Tree Trimming Deaths, Announces Safety Campaign”
Department of Industrial relations
January 2016

“Tree Trimmer Dies After 100-Foot Tree Falls into Power Lines”
Fox 40 News
Tuolumne County
April 2017
PUBLIC HEALTH AND SAFETY IMPACTS
WATER SUPPLY
PUBLIC HEALTH AND SAFETY IMPACTS
CLIMATE CHANGE

Healthy Forests = Carbon Storage

Unhealthy Forest = Carbon Emission
STATE OF EMERGENCY
OCTOBER 30, 2015

Executive Department
State of California

PROCLAMATION OF A STATE OF EMERGENCY

WHEREAS the State of California is experiencing record drought conditions, which have persisted for the last four years; and

WHEREAS on January 17, 2014, I proclaimed a State of Emergency to exist throughout the State of California due to severe drought conditions; and

WHEREAS a lack of precipitation over the last four years has made trees in many regions of California susceptible to epidemic infestations of native bark beetles, which are constrained under normal circumstances by the defense mechanisms of healthy trees; and

WHEREAS these drought conditions and resulting bark beetle infestations across broad areas have caused vast tree mortality in several regions of the state, with the United States Forest Service estimating that over 22 million trees are dead and that tens of millions more are likely to die by the end of this year; and

WHEREAS recent scientific measurements suggest that the scale of this tree die-off is unprecedented in modern history; and
COOPERATIVE EFFORTS

Fresno County
USFS
Caltrans
CAL FIRE
Fire Safe Council
CCC
COOPERATIVE EFFORTS
### PARTNERSHIPS MAKING PROGRESS

**Through March 2017**

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<tr>
<th>Unit/County/Agency</th>
<th>Trees Removed</th>
<th>Acres Treated</th>
<th>Miles of Roads &amp; Powerlines</th>
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PRIVATE TREE REMOVAL PROJECTS
LAKE ARROWHEAD IN 2016
THE IMPACTS TO THE SIERRA NEVADA WILL BE FELT FOR DECADES

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CAL FIRE
Tree Mortality Task Force
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