State & Private Forestry

FS-1201a

September 2022

FOREST HEALTH PROTECTION 2019 HIGHLIGHTS OF TREE MORTALITY AND OTHER DAMAGE FROM INSECTS AND DISEASES

Approximately 500 million acres surveyed annually

SUDDEN OAK DEATH

OAK AND TANOAK

- Kills several oak species and tanoak in California and Oregon
- Continues to spread northward in infected areas

SOUTHERN PINE BEETLE

SOUTHERN PINES

- A major pest of southern yellow pine forests that greatly influences pine ecology and timber production
- Tree mortality declined across the Southeastern United States

EMERALD ASH BORER

ASH

- Devastates ash trees in urban and community forests and native hardwood forests
- Continues to spread to additional counties in infested States, but no new States in 2019

7.1
MILLION ACRES
WITH DEAD TREES

5.4MILLION ACRES
WITH OTHER TREE

DAMAGE

FIR ENGRAVER WESTERN FIRS

- Significantly impacts fir species on the west coast
- Caused tree mortality across 1.9 million acres in California

BEECH LEAF DISEASE BEECH

- A newly identified beech disease caused by a nematode
- Reported for the first time in Connecticut

SPRUCE BEETLE

SPRUCE

- Attacks most spruce trees across its range
- Caused tree mortality across 133,000 acres in Alaska, which is less than 2018 reports

SPONGY MOTH HARDWOODS

- Defoliation can result in reduced annual growth, canopy dieback, and death
- Caused defoliation across 198,000 acres in Michigan and mortality across 154,000 acres in Connecticut

ACTIVITIES EMPEST HEALTH DRATECTION SLIDDARTED

ACTIVITES FOREST FIEAETH FROTECTION SOFT ORTED						
SUDDEN OAK DEATH	SOUTHERN PINE BEETLE	EMERALD ASH BORER	FIR ENGRAVER	SPONGY MOTH	SPRUCE BEETLE	BEECH LEAF DISEASE
Stream detection and treatments in targeted areas	Suppression of active infestations and thinning forest for prevention	Provide technical assistance and outreach	Surveying, suppression, and developing management options	Eradication, suppression, and Slow the Spread Program	Pest suppression, detection, management, and treatments	Causal agent surveys were performed and are ongoing in the East

TREE MORTALITY SURVEY TRENDS 20010-2019

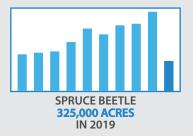


7.1 MILLION ACRES
IN 2019



IN 2019







2019 INSECT AND **DISEASE SURVEY** WATERSHEDS WITH TREE DAMAGE

