State, Private, and Tribal Forestry

FS-1219a

May 2023

FOREST HEALTH PROTECTION 2022 HIGHLIGHTS OF TREE MORTALITY AND DAMAGE FROM INSECTS AND DISEASES

462 million acres surveyed

BEECH LEAF DISEASE BEECH

- Michigan confirms first occurrence
- Foliar symptoms observed in forests and landscape trees in the Northeast

SOUTHERN PINE BEETLE SOUTHERN PINES

- Additional trap detections in Maine after initial 2021 detection
- Over 9,000 acres with mortality reported in New York

EMERALD ASH BORER ASH

- First new State detection since 2018 occurred in Oregon
- Ash mortality continues in impacted States

8.4
MILLION ACRES
WITH DEAD TREES

5.9
MILLION ACRES

TREE DAMAGE

WHITE PINE BLISTER RUST FIVE-NEEDLE PINES

- Whitebark pine was designated as threatened under the Endangered Species Act
- Whitebark pine mortality is extensive in high-elevation forests in the Western United States

SPONGY MOTH HARDWOODS

- Reduced defoliation reported across States heavily impacted in 2021
- 1.7 million acres with defoliation reported predominately in MI and PA

RAPID 'ŌHI'A DEATH

'ŌHI'A

- Tree mortality continues to spread on Hawai'i Island
- Tree wounding by invasive ungulates increases ROD infections in HI

FIR ENGRAVER WESTERN FIRS

- Mortality attributed to fir engraver on nearly 3.4 million acres
- Drought conditions continue to promote fir engraver activity in the West

ACTIVITIES SUPPORTED BY FOREST HEALTH PROTECTION

BEECH LEAF DISEASE	SOUTHERN PINE BEETLE	EMERALD ASH BORER	RAPID 'ŌHI'A DEATH	FIR ENGRAVER	SPONGY MOTH	WHITE PINE BLISTER RUST
Ongoing survey detection	Treatment of active infestations and thinning forests for prevention	Providing treatments, technical assistance, community response planning, and outreach	Detection survey, rapid response, sanitation, and resistance screening	Surveying, suppression, and developing new management options	Eradication, suppression, and Slow the Spread Program	Surveying, resistance screening, and planting

TREE MORTALITY AND DEFOLIATION SURVEY TRENDS 2013-2022



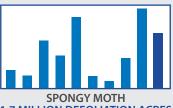
8.4 MILLION ACRES
IN 2022



FIR ENGRAVER
3.4 MILLION ACRES
IN 2022



RAPID 'OHI'A DEATH 93,000 ACRES IN 2022



SPONGY MOTH
1.7 MILLION DEFOLIATION ACRES
IN 2022



2022 INSECT AND **DISEASE SURVEY**WATERSHEDS WITH TREE DAMAGE

