State, Private, and Tribal Forestry | FS–1219a

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

MILLION ACRES WITH **DEAD TREES** MILLION ACRES

WITH

TREE DAMAGE

RAPID'ŌHI'A DEATH

'ŌHI'A

Tree mortality continues to spread on Hawai'i

Tree wounding by invasive ungulates increases

ROD infections in HI

WHITE PINE BLISTER RUST **FIVE-NEEDLE PINES**

- Whitebark pine was designated as threatened under the Endangered Species Act
- Whitebark pine mortality is extensive in highelevation 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

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

RAPID 'ŌHI'A

DEATH



detection

Treatment of active infestations and thinning forests planning, and

Providing treatments, technical assistance, community response outreach screening

EMERALD ASH

BORER

Detection survey, Surveying, rapid response, sanitation, and resistance

options

Eradication, suppression, and suppression, and developing new Slow the Spread Program management

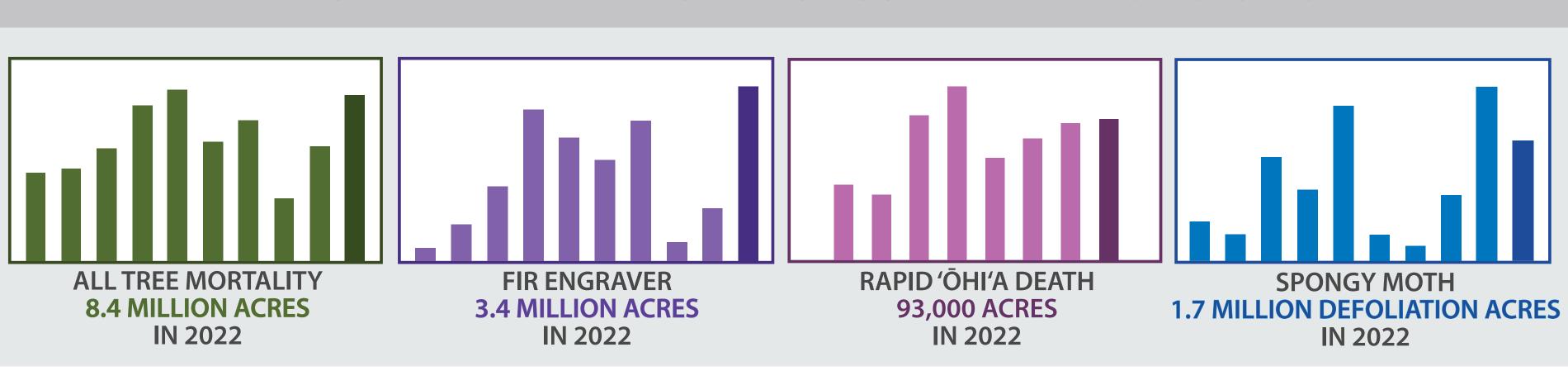
FIR ENGRAVER SPONGY MOTH

Surveying, resistance screening, and planting

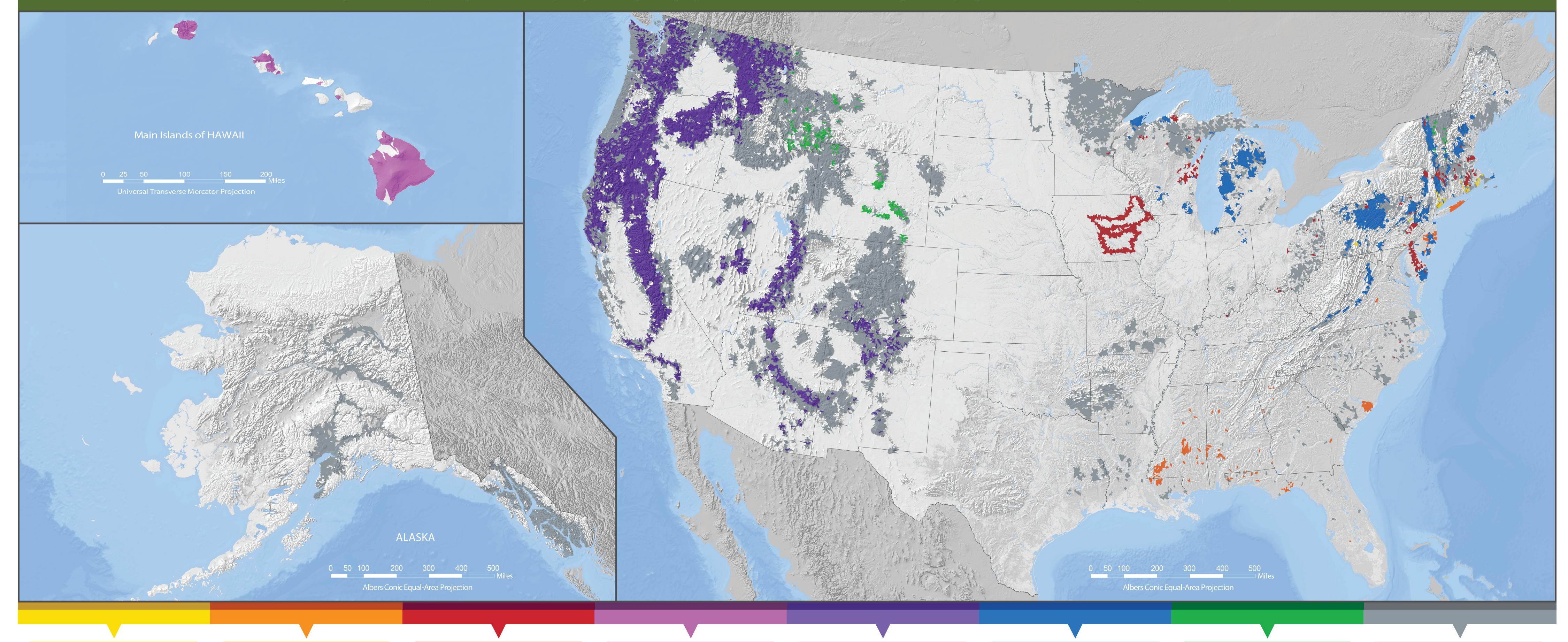
WHITE PINE

BLISTER RUST

TREE MORTALITY AND DEFOLIATION SURVEY TRENDS 2013–2022



2022 INSECT AND DISEASE SURVEY – WATERSHEDS WITH TREE DAMAGE



Beech leaf disease

Southern pine beetle

Emerald ash borer

Rapid 'ōhi'a death

Fir engraver

Spongy moth

White pine blister rust

* Other damage