State & Private Forestry

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FOREST HEALTH PROTECTION 2020 HIGHLIGHTS OF TREE MORTALITY AND OTHER DAMAGE FROM INSECTS AND DISEASES



*Insect and disease surveys for 2020 were impacted by the COVID-19 pandemic, and some regions and States were unable to conducttypical surveys. Therefore, other remote sensing products and additional ground surveys were used to supplement data gathered by aerial surveys. Overall, there was a 50-percent reduction in acres surveyed this year with only 215 M acres in 2020, down from 500 M acres surveyed in 2019.

SPRUCE BEETLE

SPRUCE

- Attacks most spruce trees across its range
- Infestations continue to impact spruce forests in Alaska and Colorado

SOUTHERN PINE BEETLE

SOUTHERN PINES

- Infestations remain very low across the Southeastern United States
- Populations are expanding in the Northeast due to warming winters

EMERALD ASH BORER

ASH

- Devastates ash trees in urban and community forests and native hardwood
- Continues to spread to additional counties in infested States, but no new States in 2020

*Approximately 215 million acres surveyed

MILLION ACRES WITH DEAD TREES

MILLION ACRES WITH OTHER TREE **DAMAGE**

FIR ENGRAVER WESTERN FIRS

- Impacts fir species in the Pacific Northwest and California
- Outbreaks are often driven by disease and drought stress

SUDDEN OAK DEATH **OAK AND TANOAK**

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

LAUREL WILT

LAUREL FAMILY

- Devastates red bay and sassafras
- Continues to move northward with new finds confirmed in KY, AR, and TN in 2020

SPONGY MOTH HARDWOODS

- **Defoliation can result** in reduced annual growth, canopy dieback, and mortality
- Infestations are down across most of the Northeast, except Michigan which reported 950,000 acres with defoliation in 2020

ACTIVITIES FOREST HEALTH PROTECTION SUPPORTED

SPRUCE BEETLE	SOUTHERN PINE BEETLE	EMERALD ASH BORER	FIR ENGRAVER	SPONGY MOTH	LAUREL WILT	SUDDEN OAK DEATH
Pest suppression, detection, management, and treatments	Suppression of active infestations and thinning forest for prevention	Provided technical assistance and outreach	Surveying, suppression, and developing management options	Eradication, suppression, and Slow the Spread Program	Expanded survey work with the focus on the northernmost occurrences	Stream detection and treatments in targeted areas

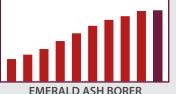
TREE MORTALITY SURVEY TRENDS 2011-2020*



3.2 MILLION ACRES IN 2020



IN 2020



1,124 COUNTIES IMPACTED IN 2020



209,000 ACRES IN 2020



2020 INSECT AND **DISEASE SURVEY** WATERSHEDS WITH TREE DAMAGE

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*Insect and disease surveys for 2020 were impacted by COVID-19 and some regions and states were unable to conduct typical surveys. Remote sensing and additional ground survey supplemented data gathered by aerial survey. Overall there was a marked reduction in surveyed acres over known pest ranges such as laurel wilt.

