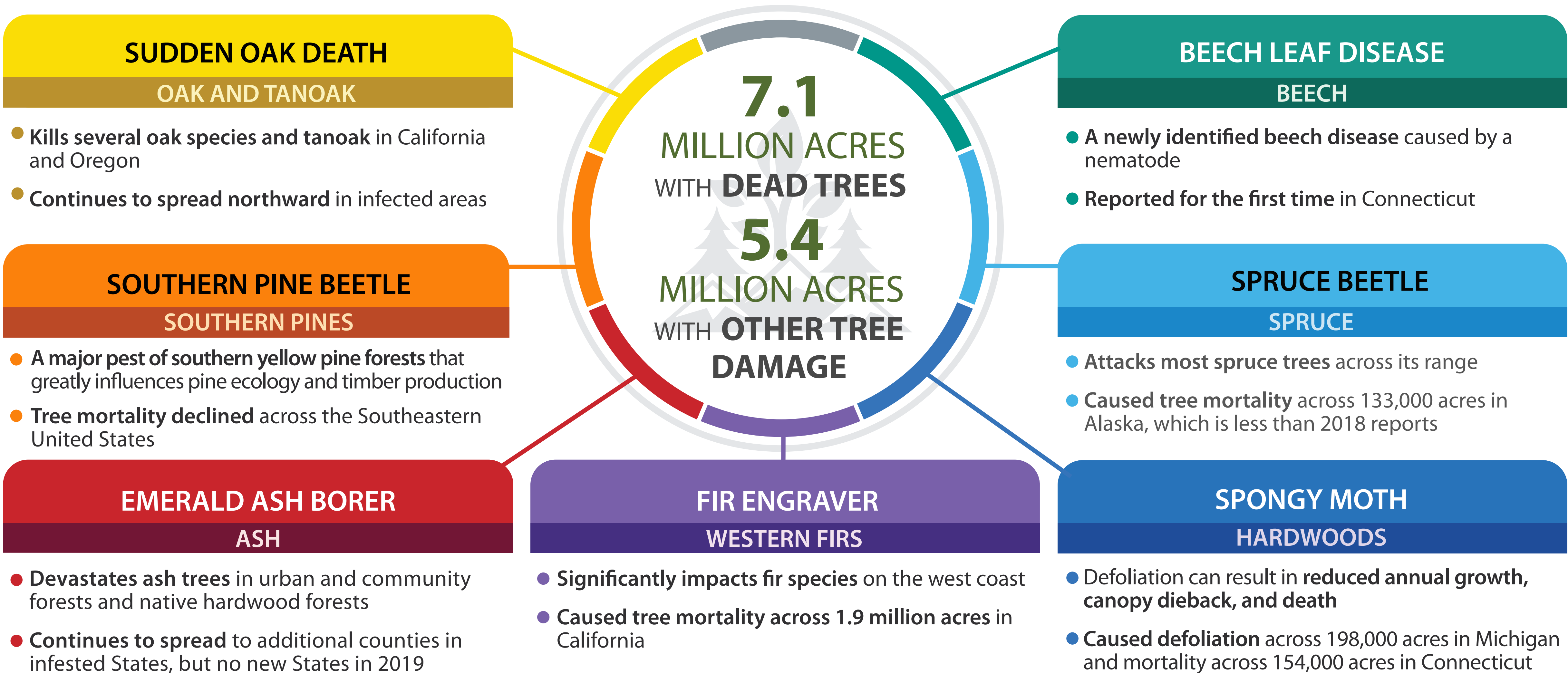


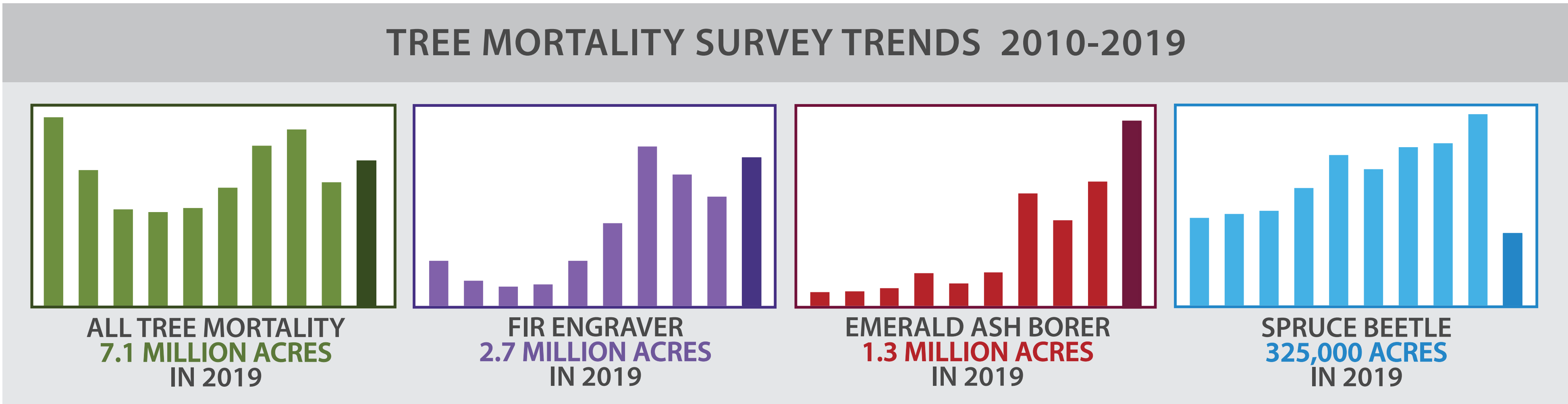
FOREST HEALTH PROTECTION

2019 HIGHLIGHTS OF TREE MORTALITY AND OTHER DAMAGE FROM INSECTS AND DISEASES

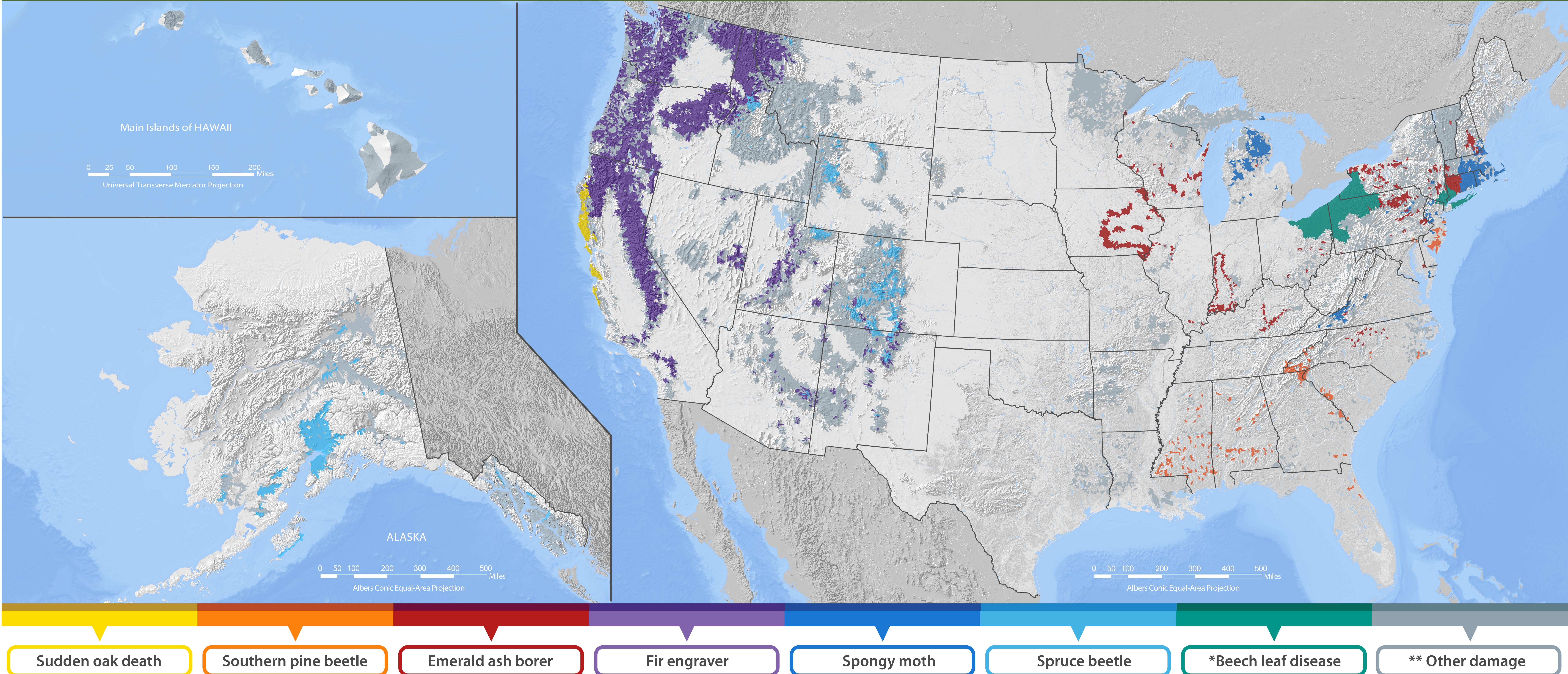
Approximately 500 million acres surveyed annually



ACTIVITIES FOREST HEALTH PROTECTION SUPPORTED						
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



2019 INSECT AND DISEASE SURVEY – WATERSHEDS WITH TREE DAMAGE



*Displayed as watersheds in counties reported to have beech leaf disease. **Includes damage from western spruce budworm, hemlock looper, hemlock sawfly, pinyon ips, mountain pine beetle and many other less significant pests. USDA is an equal opportunity provider, employer, and lender.