



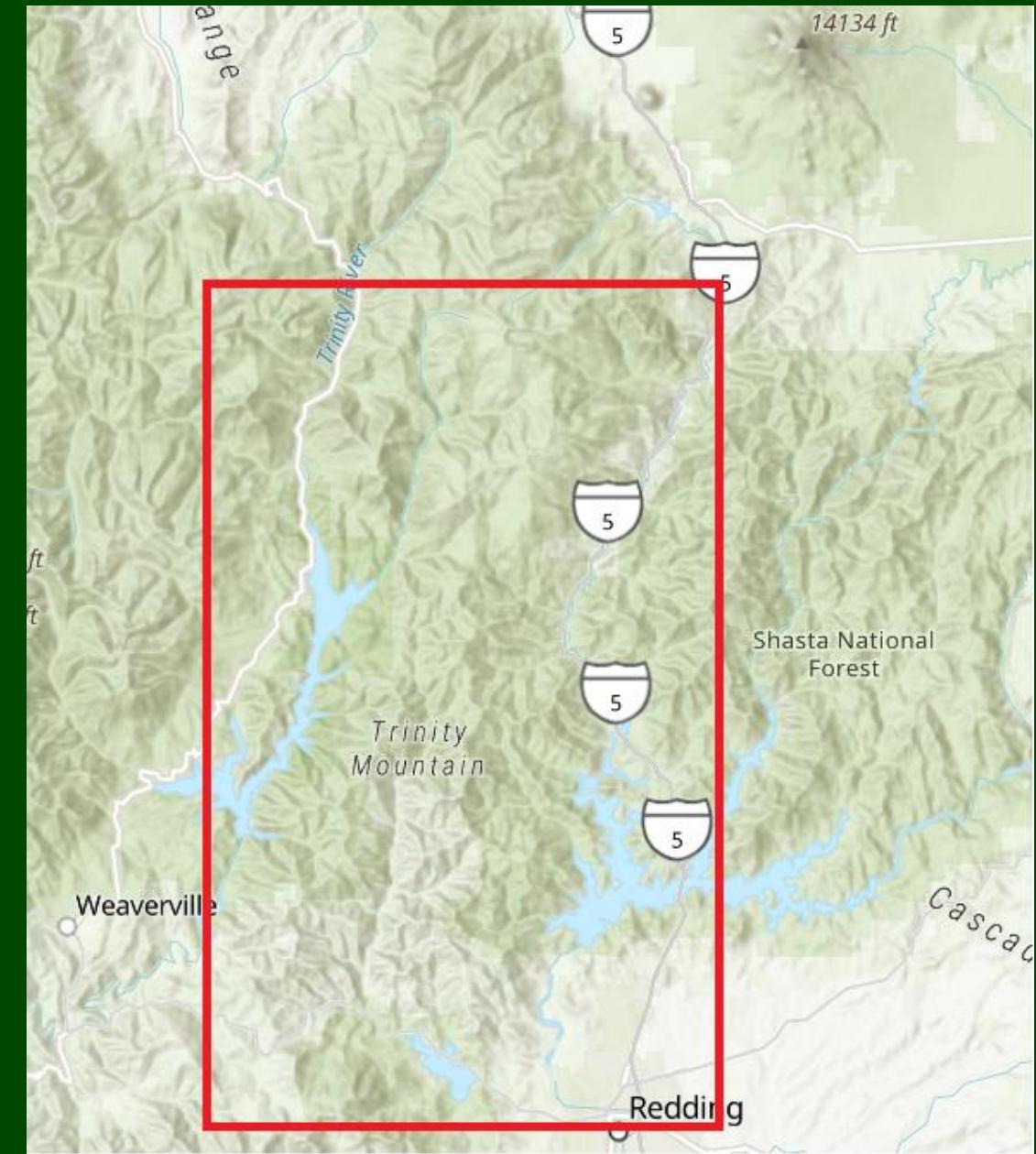
Forest Service  
U.S. DEPARTMENT OF AGRICULTURE

# Observations from northwestern California

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Ashley Hawkins, Forest Health Protection



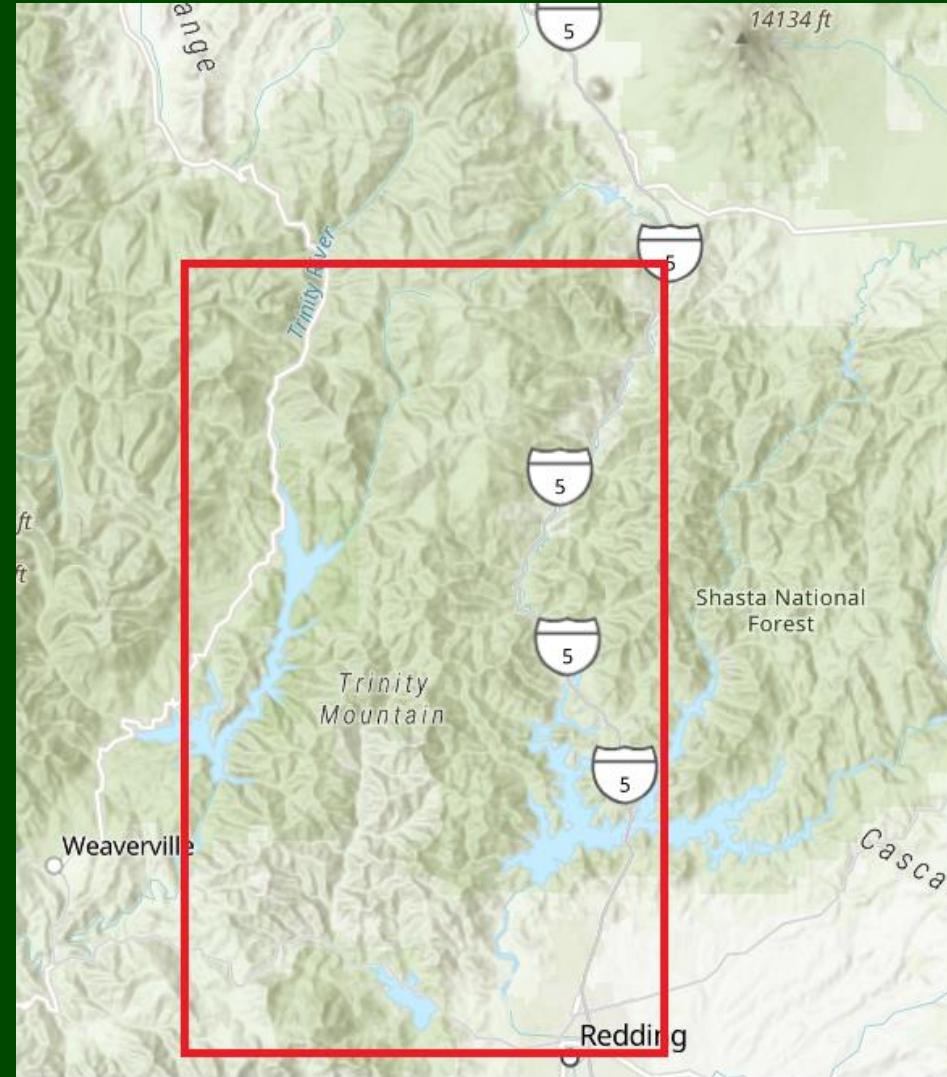






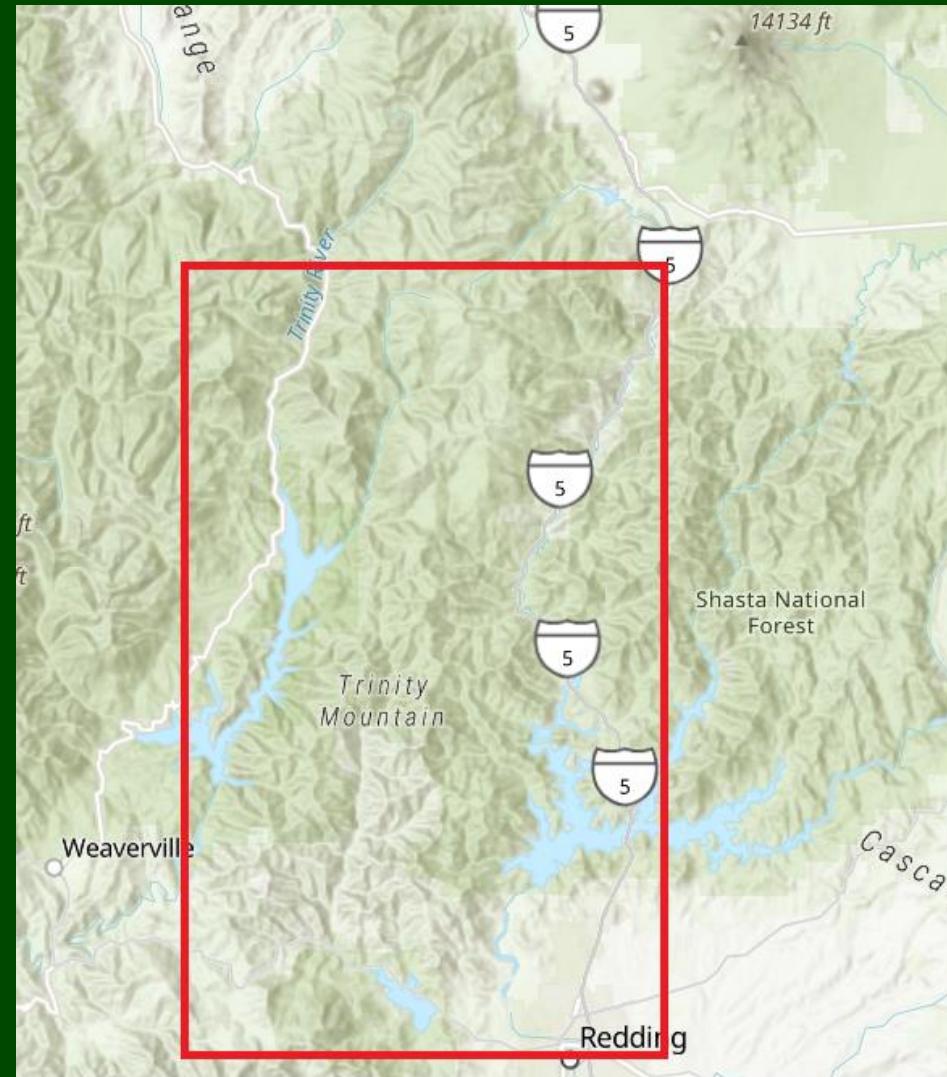
# Southeast Klamath Mountains

- =/ $<$  600m (2000')
- Abiotic/Biotic?
- Drought?
- Pathogens?
- Insects?



# Southeast Klamath Mountains

- *Elytroderma deformans*
- *Sydowia polyspora*
- *Sphaeropsis (Diplodia) sapinea*
- Douglas-fir mortality



*Neofusicoccum mediterraneum*  
giant sequoia











*Neofusicoccum mediterraneum*  
Port-Orford-cedar







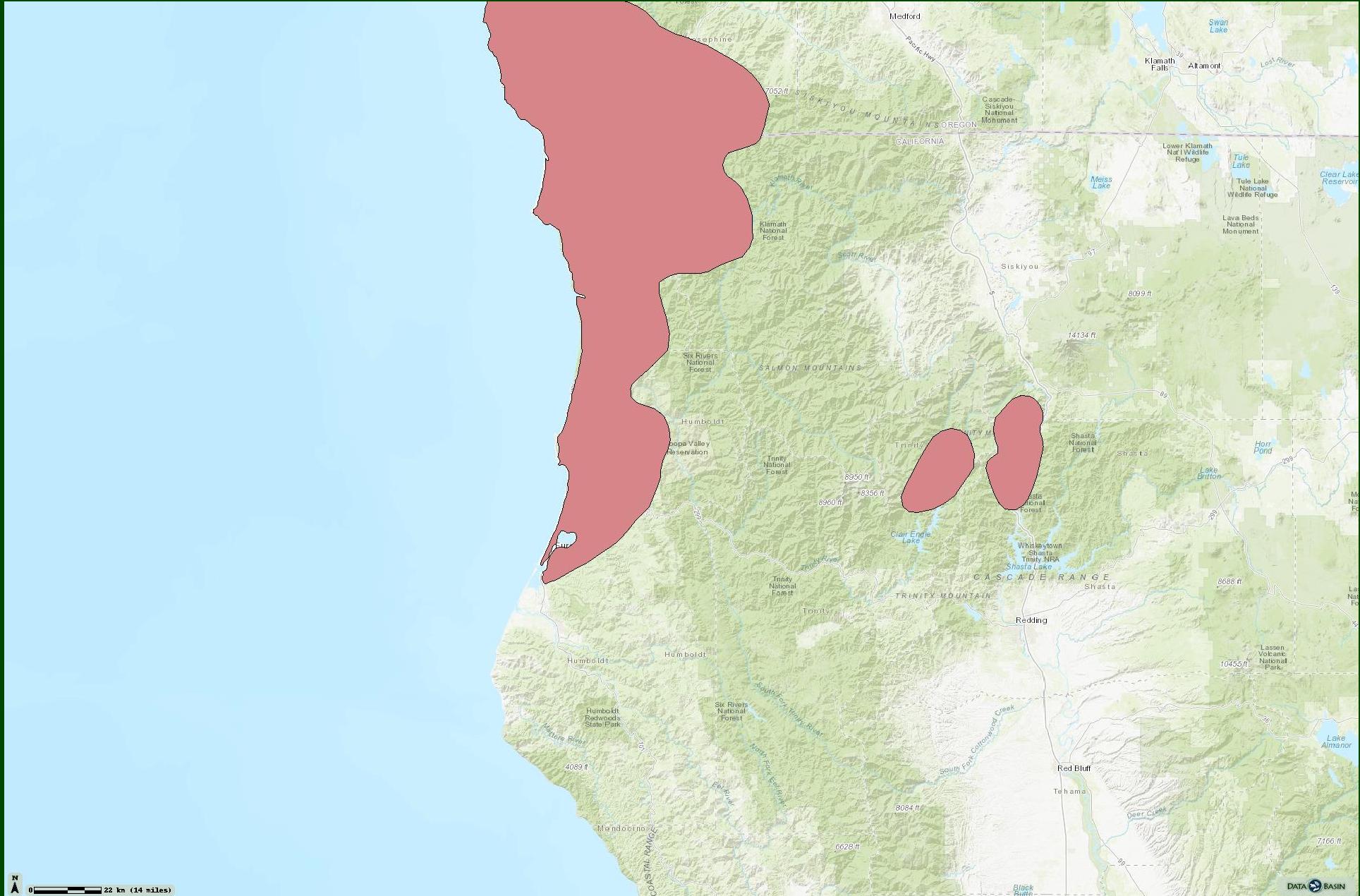






# Port-Orford-cedar root disease

*Phytophthora lateralis*







**Thank you!**