

Panel Discussion Topics and Resources

Eureka Coastal Forest Health Workshop

Grand Fir Decline

California Forest Pest Conditions Reports: https://www.fs.usda.gov/detail/r5/forest-grasslandhealth/?cid=fsbdev3_046704

- Forest Pest Conditions Reports are sorted by pest/pathogen, so recommend searching for “grand fir” in document for all grand fir-related health issues
- Reports 2021 – 2023 have information about recent observations of grand fir health issues including Heterobasidion root disease, Armillaria root disease, and balsam wooly adelgid

UCCE Grand Fir Decline Fact Sheet: Coming soon

Spruce Defoliation

UCCE Spruce Browning and Defoliation Fact Sheet:
[//ucanr.edu/sites/CoastalForestHealth/files/407716.pdf](https://ucanr.edu/sites/CoastalForestHealth/files/407716.pdf)

- An overview of the spruce situation and what was known about it circa September 2023
- Includes references to other spruce disease fact sheets and research on green spruce aphid

OSU Green Spruce Aphid Fact Sheet:
https://www.oregon.gov/odf/Documents/forestbenefits/Spruce_aphid_2017.pdf

Coastal Pine Decline

Bishop pine decline research project:

<https://research.fs.usda.gov/treesearch/58754>

Onnia subtriquetra as a contributor to pine decline (abstract only):

<https://onlinelibrary.wiley.com/doi/10.1111/efp.12844>

Watching the demise of a coastal forest type – Bishop Pine (Greg Guisti)

<https://ucanr.edu/sites/Mendocino/files/199447.pdf>

SOD Resources

Oak Mortality Taskforce: <https://www.suddenoakdeath.org/>

- Comprehensive repository for SOD information, history, and research in California

SOD in Humboldt and Del Norte:

https://cehumboldt.ucanr.edu/Programs/Forestry/Sudden_Oak_Death/

- For guides to SOD symptoms, SOD Look-alikes, and SOD and Fire information, go to “Guides and Best Management Practices” on the navigation bar on the left side of the screen

SOD in Mendocino:

https://cemendocino.ucanr.edu/Forestry/Sudden_Oak_Death/

SOD Regulations (USDA APHIS *P. ramorum* Program):

<https://www.aphis.usda.gov/plant-pests-diseases/pramorum>

Oak Woodland Restoration

Article referenced in Oak Woodland Talk: <https://research.fs.usda.gov/treesearch/60020>

UC Oaks website: <https://oaks.cnr.berkeley.edu/>

University of California Cooperative Extension Mendocino – Oak Woodland Management webpage:

https://cemendocino.ucanr.edu/Forestry/Oak_Woodland_Management/

A Field Guide to Insects and Diseases of California Oaks (Swiecki and Bernhardt, 2006):

<https://ucanr.edu/sites/Mendocino/files/365212.pdf>

Nurseries

AIR Certification Program: <https://airnursery.ucdavis.edu/>

- For list of Best Management Practices, click on Resources for Nurseries > Best Management Practices. Also has other useful resources for nurseries.

NORS-DUC: <https://www.dominican.edu/directory/national-ornamentals-research-site-nors-duc>

- Soil and mulch sanitation research and free soil-steaming program
- Lots of applied research on Phytophthoras in nurseries
- May have additional information on ELISA tests and other fast Phytophthora-identification methods

OSU's Phytophthora in Nurseries Page: <https://extension.oregonstate.edu/catalog/pub/em-9330-preventing-phytophthora-infestations-restoration-nurseries>

- Another set of Best Management Practices with extensive resources at the bottom of the webpage
- Many good pictures of nursery BMPs (including many used in workshop nursery presentation)

Phytophthora Biology: <https://forestphytophthoras.org/phytophthora-basics>

Managing Forest Health Issues

General

University of California Cooperative Extension Mendocino – Forest Health webpage

<https://cemendocino.ucanr.edu/Forestry/ForestHealth/>

University of California Cooperative Extension Humboldt/Del Norte – Forest Health webpage

<https://cehumboldt.ucanr.edu/Programs/Forestry/>

University of California Forest Research and Outreach:

<https://ucanr.edu/sites/forestry/Stewardship/>

Rx Fire

UCANR Fire Network: <https://ucanr.edu/sites/fire/>

- General fire information, including information on prescribed fire as a tool and resources for wildfire-related subjects.

Humboldt Prescribed Burn Association: <https://humcopba.net/>

- Community prescribed fire in Humboldt County
- Aids private landowners in burn planning through execution
- Website includes a burn manual for Humboldt County and prescribed burn resources

UCCE Mendocino's Rx Fire Page: <https://cemendocino.ucanr.edu/FireResources/PrescribedFire/>

- Includes information about local PBAs
- Information on permits required for Mendocino, and Lake counties
- Good resource for Mendocino, Lake, and Sonoma County residents

Watershed Research and Training Center: <https://www.thewatershedcenter.com/wrtc-services>

- Organization based in Trinity County that offers a variety of services to the Trinity County community, including forestry consulting, prescribed burn assistance, and watershed assessments

Mid Klamath Watershed Council: <https://www.mkwc.org/fire-forestry#fire-forestry-forest-restoration>

- Organization that does a variety of restoration and outreach projects in the mid-Klamath watershed (Humboldt and Siskiyou counties), including a holistic prescribed fire program

California Prescribed Burn Associations Page: <https://calpba.org/>

- Resources for PBAs across California as well as a list of active PBAs in the state

Looking at Fire History in Redwood Trees:

<https://static1.squarespace.com/static/545a90ede4b026480c02c5c7/t/66c653c5c672e70d669c9990/1724273606754/Recognizing+Fire+in+the+Redwoods.pdf>

- Good article on understanding fire history within a stand based on fire scars on redwoods
- Housed under the California Fire Science Consortium, found here: <https://www.cafirescience.org/>

Integrated Pest/Pathogen Management

University of California Statewide IPM Program: <https://ipm.ucanr.edu/#gsc.tab=0>

- Covers forest health issues as well as agricultural crop issues in detail, with links to other sources for each pest/pathogen

General Forest Health

Phytosphere: <http://phytosphere.com/onlinelist.htm>

- Repository of a ton of good research on Phytophthoras and related issues

California Forest Pest Council (CFPC): <https://www.caforestpestcouncil.org/>

CFPC Resources Page: <https://www.caforestpestcouncil.org/resources>

USDA Forest Service Forest Health Protection

<https://www.fs.usda.gov/science-technology/forest-health-protection>