



Oregon Department of Forestry: Forest Health

Serving public and private landowners in Oregon:

Christine Buhl, Entomologist

christine.j.buhl@oregon.gov

Sarah Navarro, Pathologist

sarah.navarro@oregon.gov

• Wyatt Williams, Invasive species

wyatt.williams@oregon.gov



ODF Forest Health Website

http://tinyurl.com/odf-foresthealth

Oregon Department of Forestry / Forest Benefits / Forest Health

Forest Health





The Forest Health program helps maintain and improve the health of Oregon's private and state-owned forests.

Our forest health professionals conduct aerial and ground surveys to monitor forest insects and tree diseases. They provide technical advice and training in the use of integrated pest management principles to help professional foresters and landowners meet their management goals and objectives.

Stewardship Foresters, urban foresters, forest entomoligists and pathologists can help landowners identify forest pest problems and develop strategies to manage pests. Contact a Stewardship Forester or the Forest Health program for more information or assistance.

Factsheets & information

Insects			
Diseases			
Invasives			
Other			

Maps & data

Statewide Insect & Disease Aerial Surveys
Swiss Needle Cast



Resources

Forest Health Highlights - Joint product of ODF and the USFS Region 8 Oregon Forest Pest Detector Forest Insect & Disease Leaflets (FIDLs)
Grants & Incentives

Partners

Oregon Invasive Species Council

Contact

Forest Health Program
Private Forests Division
2600 State Street
Salem, OR 97310
Phone: 503-945-7207
Email

U.S. Forest Service fact sheets (FIDLs)

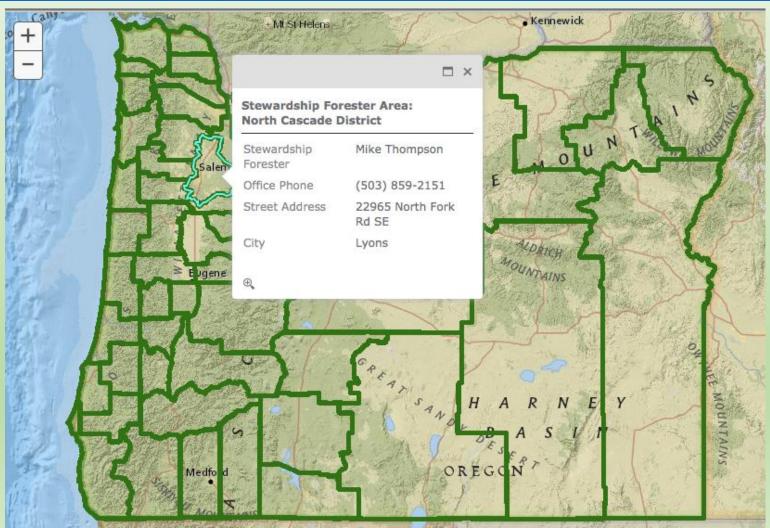






Oregon Department of Forestry: Stewardship Foresters

http://www.oregon.gov/ODF/Working/Pages/FindAForester.aspx





Oregon State University: Forestry Extension

http://extensionweb.forestry.oregonstate.edu/directory

Ahrens, Glenn Extension Agent – Forestry & Natural Resources Counties served: Clackamas, Hood River, Marion	503-655-8631 Glenn.Ahrens@oregonstate.edu	Leavell, Daniel Extension Agent – Forestry & Natural Resources Counties served: Klamath, Lake	541-883-7131 ext. 8504 Daniel.Leavell@oregonstate.edu
Bennett, Max Extension Agent – Forestry & Natural Resources Counties served: Jackson, Josephine	541-776-7371 Max.Bennett@oregonstate.edu	Oester, Paul Extension Agent – Forestry & Natural Resources Counties served: Union, Umatilla, Wallowa	541-963-1010 Paul.t.Oester@oregonstate.edu
Burris, Frank Extension Agent – Forestry & Natural Resources Counties served: Curry	541-247-6672 Frank.Burris@oregonstate.edu	Parker, Bob Extension Agent – Forestry & Natural Resources Counties served: Baker, Grant	541-523-6418 Bob.Parker@oregonstate.edu
Grand, Lauren Extension Agent – Forestry & Natural Resources Counties served: Lane	541-579-2150 lauren.grand@oregonstate.edu	Strong, Nicole Extension Agent – Forestry & Natural Resources Counties served: Deschutes, Confederated Tribes of the Warm Springs, Crook, Jefferson	541-548-6088 Nicole.Strong@oregonstate.edu
Grotta, Amy Extension Agent – Forestry & Natural Resources Counties served: Columbia, Washington, Yamhill	503-397-3462 Amy.Grotta@oregonstate.edu	Withrow-Robinson, Brad Extension Agent – Forestry & Natural Resources Counties served: Benton, Linn, Polk	541-766-3554 Brad.W-R@oregonstate.edu



OSU: Insect, Weed management and Disease IPM control fact sheets

http://ipmnet.org/IPM_Handbooks.htm

Biology



Control



Douglas-fir (Pseudotsuga)-Douglas-fir twig weevil

Cylindrocopturus furnissi

Pest description and crop damage damage The Douglas-fir twig weevil is a small, wingless, grayish-black beetle with white markings and sometimes pinkish spots. The larvae mine under the bark or inside twigs. Infested twigs and small branches often turn a reddish-brown and die back. Small, stressed trees are especially susceptible to attack by the weevils, particularly in dry years.

Biology and life history The weevil overwinters as a larva or adult. The adult lays eggs in twigs in the summer. The larvae feed by mining just beneath the bark and pupate at the ends of the galleries the following spring. There is one complete generation per year.

Management-cultural control

Pick off adults if seen. Remove and burn infested twigs. Keep trees healthy with proper cultural practices, as healthy trees can better withstand insect damage.

Management-chemical control

No chemical controls listed.

See "Douglas-fir" in:

Christmas Tree Plantation Pests

For more information

Johnson, W.T. and H.H. Lyon (1991), *Insects That Feed on Trees and Shrubs*, 2nd ed., Cornell University Press (p. 60).



Douglas-fir twig weevil

Cylindrocopturus furnissi Buchanan Immature pupa showing damage © Ken Gray Insect Image Collection



Douglas-fir twig weevil

Cylindrocopturus furnissi Buchanan Adult

Ken Gray Insect Image Collection



OSU: Pacific NW Nursery IPM

http://oregonstate.edu/dept/nurspest/index.htm

PACIFIC NORTHWEST NURSERY IPM

WELCOME

Pest Activity Alerts On Twitter @PNWNurseryIPM





More Great Resources



			Anno	Puncement
Home	<u>Insects</u>	<u>Mites</u>	Diseases	Seinents
Weeds	<u>Vertebrates</u>	Slugs/Snails	Abiotic	



Info topics

Workshops/Classes

Alerts

Submit Alerts

Search Alerts

Join Mail Lists

Other Resources

Contact Us

Welcome to the Pacific Northwest Nursery IPM Website

Newest pages: dustywing gallery, lacewing gallery, ground beetle gallery, rove beetle gallery, snakefly gallery, soldier beetle gallery, and natural enemy gallery (in progress)

Looking for trouble? Thrips populations are increasing in maples. Flights of Pacific flat-headed borers have started. Usually we begin to see the coreopsis beetle, pale green weevil up and feeding in May/early June. Cottony camellia scale crawlers are out now. Nymphs of azalea lace bug are out (and this is a key timing for intervention to prevent damage). We're on the tail-end of azalea sawfly feeding. I can confirm the activity of roseslug. Honeylocust plant bug has been spotted. Adult flights have already been confirmed already in our

Hold the Date!

The Biocontrol Bus Biological Control Workshop & Tour

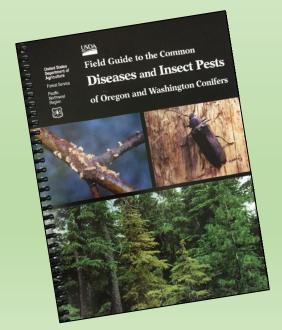
June 15 & 16, 2016 Introductory workshop and

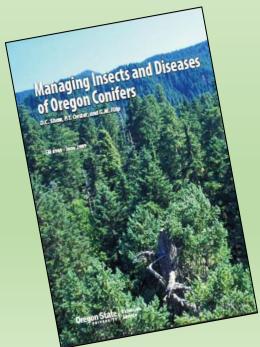
(Tour is full: workshop has a

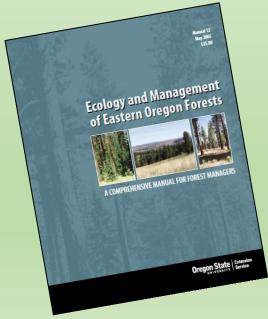
Publications

Pest & Management guides:

- Field Guide to Common Diseases and Insect Pests of Oregon and Washington Conifers (USFS)
- Managing Insects and Diseases in Oregon Conifers (OSU)
- Ecology and Management of Eastern Oregon Forests (OSU)









WA Dept. of Nat. Resources: Forest Health

Serving public and private landowners in Washington:

Glenn Kohler, Entomologist

glenn.kohler@dnr.wa.gov

• Dan Omdal, Pathologist

daniel.omdal@dnr.wa.gov

Amy Ramsey, Pathologist

amy.Ramsey@dnr.wa.gov



WA DNR Forest Health Website

http://www.dnr.wa.gov/ForestHealth



Links to other Forest Health fact sheets



Washington State University: Forestry Extension

• Main site, extension contacts: http://forestry.wsu.edu/

• Fact sheets: http://forestry.wsu.edu/resources/

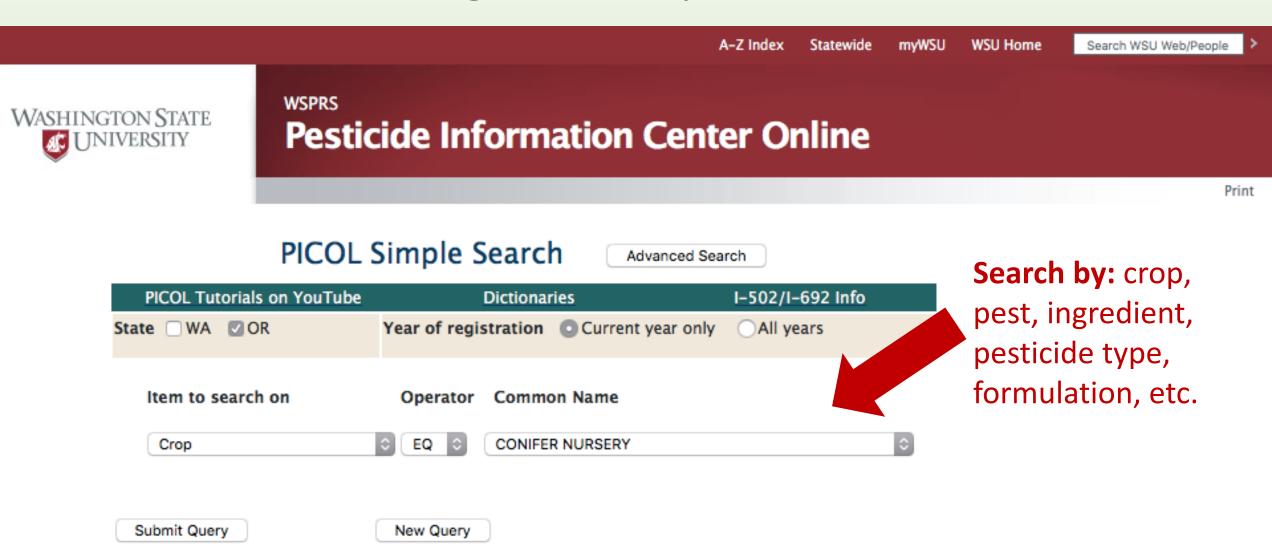


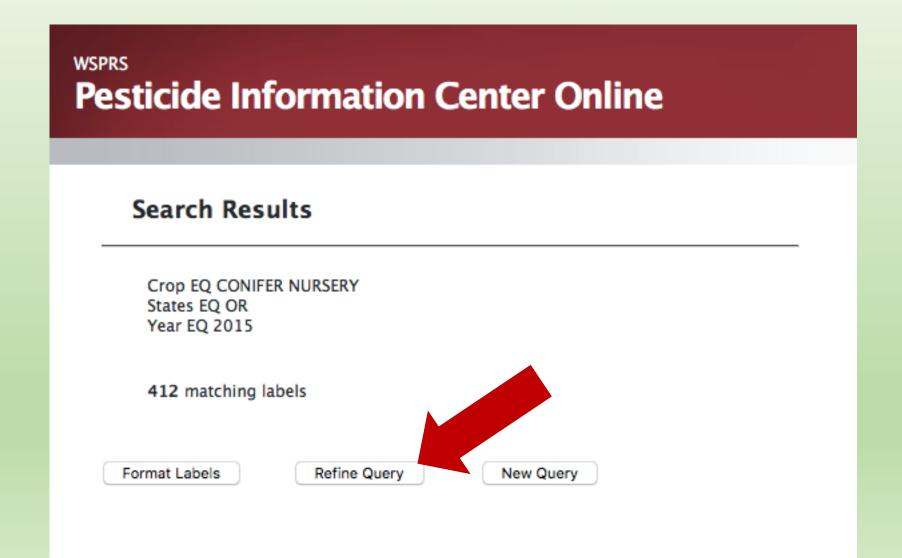
Pesticide info

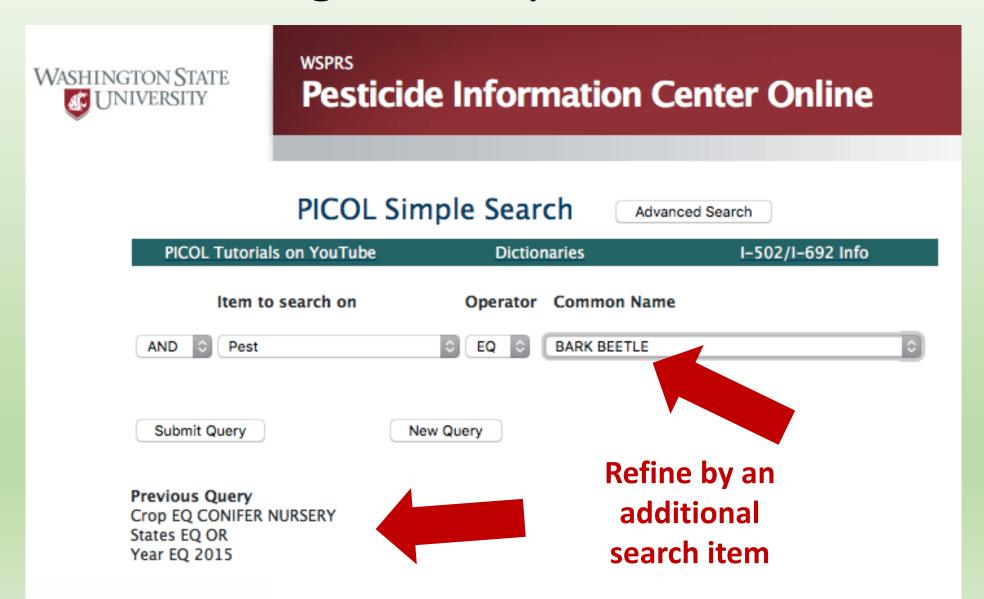
 Oregon Department of Agriculture (ODA) Pesticides Division - regulations http://www.oregon.gov/ODA/programs/Pesticides/Pages/default.aspx

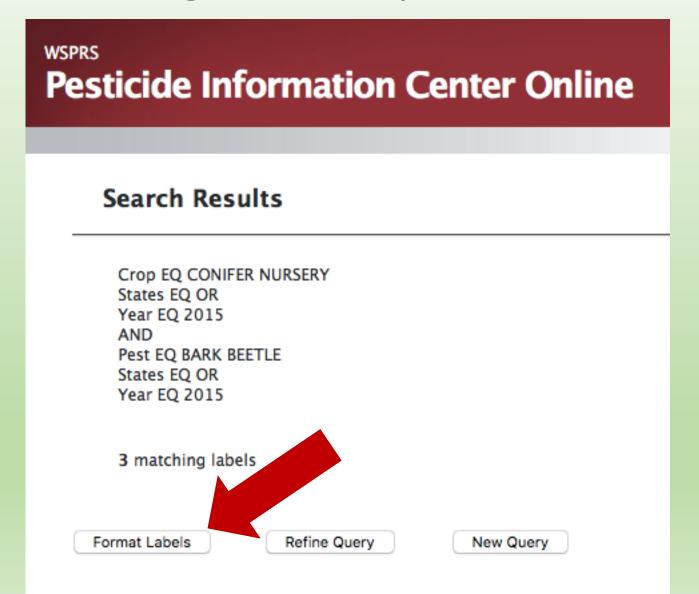
 Pesticide Analytical Respond Center (PARC) – incident reporting parc@oda.state.or.us 1-844-688-7272

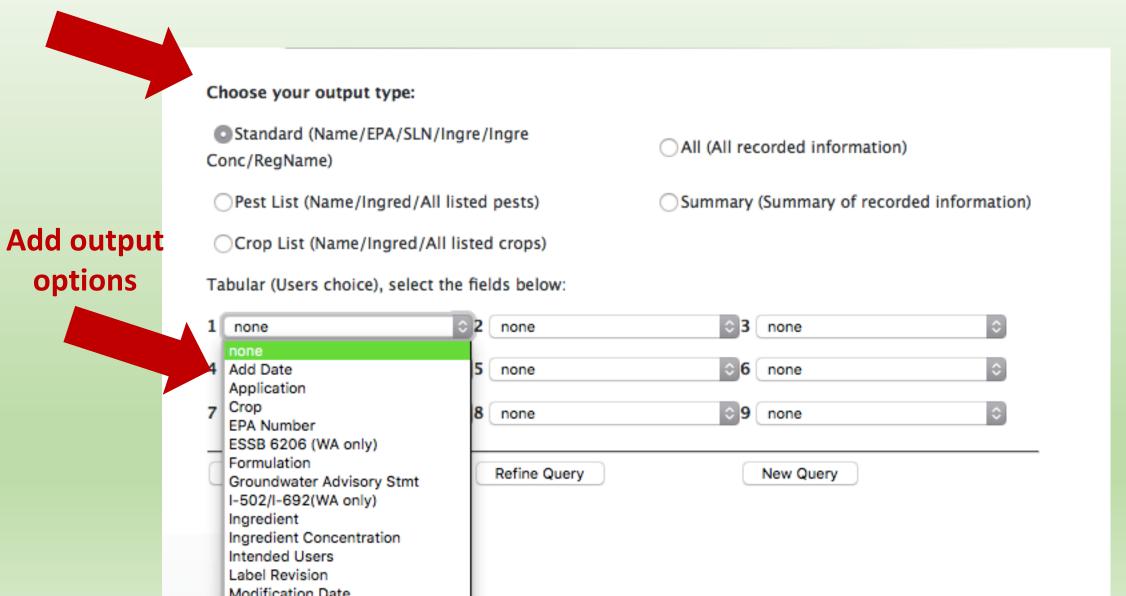
 Pesticide Information Center Online (PICOL) – label info http://cru66.cahe.wsu.edu/labels/Labels.php











PICOL OUTPUT - STANDARD

Crop EQ CONIFER NURSERY States EQ OR Year EQ 2015 AND Pest EQ BARK BEETLE States EQ OR Year EQ 2015

Format Labels

Format Labels

Export to Excel

Export to Excel

Refine Query

Refine Query

New Query

New Query

Results!

NAME	FPA #	SLN #	SLN name	Sup #	Sup Name	INGREDIENT				REGISTRANT NAME	Sect 18 Expiration
ONYXPRO INSECTICIDE [63. WA ONYXPRO INSECTICIDE [63. OR	279-4269					BIFENTHRIN	23.4%	IRAC	3	FMC CORP – DIV AGRICULTURAL SOLUTIONS	
ORNAZIN 3% EC BOTANICAL INSECTICIDE [3. WA ORNAZIN 3% EC BOTANICAL INSECTICIDE [3. OR	5481-476-67690					AZADIRACHTIN	3.0%	IRAC	un	SEPRO CORPORATION	
PERMETHRIN 3.2 AG	83222-3					PERMETHRIN	36.8%	IRAC	3	DIRECT AG SOURCE -R3 AG-	

Invasive species

Report a find:

1-866-INVADER

https://oregoninvasiveshotline.org/



Oregon Forest Pest Detector (invasive species detection training):

http://pestdetector.forestry.oregonstate.edu/

Questions?



http://insect.pnwhandbooks.org/hort/landscape/hosts-and-pests/douglas-fir-pseudotsuga-coneworm