

# Washington Department of Natural Resources

## **Resources for Forest Insect and Disease Information:**

Dan Omdal, Forest Pathologist	(360) 902-1692	<a href="mailto:dan.omdal@dnr.wa.gov">dan.omdal@dnr.wa.gov</a>
Amy Ramsey, Forest Pathologist	(360) 902-1309	<a href="mailto:amy.ramsey@dnr.wa.gov">amy.ramsey@dnr.wa.gov</a>
Glenn Kohler, Forest Entomologist	(360) 902-1342	<a href="mailto:glenn.kohler@dnr.wa.gov">glenn.kohler@dnr.wa.gov</a>
Aleksandar Dozic, Survey Technologist	(360) 902-1320	<a href="mailto:aleksandar.dozic@dnr.wa.gov">aleksandar.dozic@dnr.wa.gov</a>
Chuck Hersey, Forest Health Program Manager	(360) 902-1045	<a href="mailto:chuck.hersey@dnr.wa.gov">chuck.hersey@dnr.wa.gov</a>
Melissa Fischer, Forest Entomologist, Colville	(509) 684-7474	<a href="mailto:melissa.fischer@dnr.wa.gov">melissa.fischer@dnr.wa.gov</a>

DNR - Wildfire Division, PO Box 47037, Olympia, WA 98504-7037

## **Insect Reference Books:**

Furniss, R.L. and V.M. Carolin. 1977 and 1992. *Western Forest Insects*. USDA Forest Service Miscellaneous Publication No. 1339. 654 pages.

Johnson, W.T. and H.H. Lyon. 1976 and 1988. *Insects that Feed on Trees and Shrubs*. Cornell University Press. 556 pages.

## **Disease Reference Books:**

Allen, E., D. Morrison and G. Wallis. 1996. *Common Tree Diseases of British Columbia*. Natural Resources Canada, Canadian Forest Service. **Phone (250) 363-0600 for FREE copy.**

Scharpf, R.F. 1993. *Diseases of Pacific Coast Conifers*. USDA Forest Service Pacific Southwest Research Station. Agriculture Handbook 521.

Sinclair, W.A., H.H. Lyon, and W.T. Johnson. 1987. *Diseases of Trees and Shrubs*. Cornell University Press. 574 pages.

Boyce, J.S. 1938, 1948, 1961. *Forest Pathology*. McGraw-Hill Book Company, Inc. 572 pages. Old, out of print, very interesting. An excellent resource especially for weird weather damage and abiotic injuries. If you ever see one in a used book store, buy it!

## **Books Covering Both Insects and Diseases:**

Chastagner, G.A., (Byther, Antonelli, DeAngelis, Landgren). 1997. *Christmas Tree Diseases, Insects and Disorders in the Pacific Northwest: Identification and Management*. Washington State University Cooperative Extension. 154 pages.

Goheen, E.M. and E.A. Willhite. 2006. *Field Guide to the Common Diseases and Insect Pests of Oregon and Washington Conifers*. R6-NR-FID-PR-01-06. ISBN 0-16-076244-8. 325 pages. <https://archive.org/details/fieldguidetocomm0106gohe>

## **Internet Resources:**

USDA Forest Service Region 6 (Portland), Forest Insects and Diseases website: [www.fs.usda.gov/goto/r6/foresthealth](http://www.fs.usda.gov/goto/r6/foresthealth). Has a tremendous reference library of specific insect and disease leaflets, photographs and information, plus other forest health reports.

A Field Guide to Diseases & Insect Pest of Northern & Central Rocky Mountains  
[http://www.idl.idaho.gov/bureau/ForestAssist/insect\\_disease/InsectAndDiseaseFieldGuide.pdf](http://www.idl.idaho.gov/bureau/ForestAssist/insect_disease/InsectAndDiseaseFieldGuide.pdf)

## Forest Health Maps:

Viewing aerial survey maps on the internet: Go to [www.fs.usda.gov/goto/r6/fhp/ads](http://www.fs.usda.gov/goto/r6/fhp/ads)

Click on “**View or Download ADS Quad Maps**”

**USDA** United States Department of Agriculture  
Forest Service

Pacific Northwest Region

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### Aerial Detection Surveys (ADS)

Every year since 1947, aerial detection surveys (ADS) have recorded the insects and diseases affecting forests in Oregon and Washington. These annual surveys are cooperative efforts by the Forest Health staffs of the **Washington Department of Natural Resources, Oregon Department of Forestry**, and the **USDA Forest Service Forest Health Protection** staff.

Digital data from these annual surveys are available from 1947 through the present year and maps are available from 2003 through the present year.

- View the ADS Review Map for the latest draft data from forest health aerial surveys
- View the Cumulative Tree Mortality and Defoliation Viewer to see areas with the most insect and disease mortality and defoliation (Note: Tree mortality is compiled in 5 year increments from 1986-2015 and defoliation is summed from 2011-2015)
- View or Download ADS Quad Maps (2003-present)
- Download ADS Data (1947-present)
- View ADS Fact Sheet
- View a Video Illustrating Tree Mortality due to Bark Beetles as captured during ADS (1947-2015)

#### Forest Health Protection (FHP)

- FHP Home
- Forest Health Monitoring
- Publications and Reports

#### Aerial Detection Survey (ADS)

- ADS Home
- ADS Quad Maps
- ADS Data
- ADS Fact Sheet

#### Contacts and Links

- R6 FHP Contacts
- Forest Insect & Disease Leaflets (FIDLs)
- Western Forest Insects & Diseases
- Organizations & Partners
- FHP International Activities

On the next page, click the year you are interested in. Then select the map you want to see from the state map shown on the right. Once the survey map loads, use roads, towns and topography to zoom in on the area of interest. Use the map legend to learn which insects and diseases are active. Go to the Region 6 Forest Health Protection website to look up more information about them:

[www.fs.usda.gov/goto/r6/foresthealth](http://www.fs.usda.gov/goto/r6/foresthealth)

Interactive **draft maps** are also available during the survey season: click on “**View the ADS Review Map**” link.

Call one of the contacts above if something isn’t working for you.

### 2015 ADS Quad Index

Click on a rectangle (below) to view a quad map; each map is a 1-5 MB .pdf file. View quad maps for **other years** (2003-present).

