

# Willamette Valley Farmscaping for Beneficials Resource List

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## Beetle Banks and Beetles

*Farming with Native Beneficial Insects*. The best guide around to developing beetle bank and other insectary habitats on the farm. Published 2014 by The Xerces Society and Storey Publishing. Available at <http://xerces.org/farming-with-native-beneficial-insects/>

*How to Build a Beetle Bank* Tualatin and East Multnomah Soil and Water Conservation Districts. Free postcard download at <https://emswcd.org/wp-content/uploads/2016/08/Beetle-bank-postcard.pdf>

*Beneficial Insects: beetles*. Erin Hodgson and Ron Patterson Utah State University Extension. <http://extension.usu.edu/files/publications/factsheet/beneficial-insects-beetles07.pdf>

*Ground Beetles. A Guide to Recognizing Beneficial Beetles in the Field*. Ed Peachy, Weed Seed Predation Project, Department of Horticulture, Oregon State University [http://hort.oregonstate.edu/files/Random Front/Seed Eating Beetles/BrochureCarabids.pdf](http://hort.oregonstate.edu/files/Random%20Front/Seed%20Eating%20Beetles/BrochureCarabids.pdf)

## Beneficial Insect ID

On-line ID: [www.bugguide.net](http://www.bugguide.net) and [www.discoverlife.org](http://www.discoverlife.org)

*A Pocket Guide to beneficial ID in the PNW*. Mario Ambrosino 2007. Oregon State University Extension Pub EC 1613-E \$5.00 or free from <https://catalog.extension.oregonstate.edu/ec1613>

*Natural Enemies of Vegetable Insect Pests*. Michael Hoffman and Anne Frodsham \$15.70 from Resource Center, 7 Business/Technology Park, Cornell University, Ithaca, NY 14850 607-255-9946

*Natural Enemies Handbook: The Illustrated Guide to Biological Pest Control*  
Mary Louise Flint and Steve H. Dreistadt  
UC, CA Ag and Natural Resources  
1111 Franklin St, Oakland, CA 94607-5200 (510) 987-0096

*Tree Fruit Field Guide to Insect, Mite, and Disease Pests and Natural Enemies of Eastern North America*. A. Agnello, et.al. NRAES Cooperative Extension P.O. Box 4557 Ithaca, NY 14852-4557 607-255-7654 [nraes@cornell.edu](mailto:nraes@cornell.edu)

*Kaufman Field Guide to the Insects of North America*. Eaton, E. R., and K. Kaufman. 2007. New York: Houghton Mifflin. (A handy guide to identifying insects available at most book stores.) \$18.95

*Identifying Natural Enemies in Crops and Landscapes*. Compiled and edited by Mary Gardiner, et.al. Michigan State University Extension Bulletin E-2949, 517-353-6740 \$10

*Enhancing Western Orchard Biological Control Project* <http://enhancedbiocontrol.org> or Angela Gadino 509-663-8181 x286. This is a collaboration in OR, WA and CA. Contains excellent slide shows and guides on beneficial insects and pests in orchards. They also do technical workshops around the Northwest.

*Surveying for Beneficial Insects* (videos): <https://www.youtube.com/watch?v=ahBsb-nA2AM>  
Observing Functional Agro-biodiversity by Arnaud Dufils. From the European CORE Organics Program; EcoOrchards Presentation of three simple methods for assessing functional agro-biodiversity (monitoring for beneficial insects) in orchard (non-destructive beating, sticky traps, cardboard).

*Scouting Vegetable Crops: An Introduction for Farmers.* Carmen Blubaugh of Washington State University

<http://articles.extension.org/pages/74490/video:-scouting-vegetable-crops:-an-introduction-for-farmers>

A scouting routine can help you identify problems in your field before they get out of control. The video demonstrates scouting for cabbage aphid in brassica crops in the Pacific Northwest, but the principles and tips can apply to any crop or region.

## **Birds and Bats**

*Attracting Wildlife for Pest Control on Farmland. An Introduction to Barn Owl Boxes, Kestrel Boxes, Raptor Perches, Wintering Raptors and More.* Dec 2012. USDA, NRCS, Hawk Watch and Utah State University. From Utah State Extension

[http://extension.usu.edu/files/publications/factsheet/NR\\_Wildlife\\_2012-02.pdf](http://extension.usu.edu/files/publications/factsheet/NR_Wildlife_2012-02.pdf)

Beneficial birds on farms. All kinds of information on birds and their on-farm benefits. Wildfarm Alliance <https://www.wildfarmalliance.org>

Falconry for bird management in blueberries (including farmers that use them).

Site managed by Peerbolt Crop Management <http://www.berriesnw.com/FalconryHome.asp>

*Using Kestrels in Bird Management Research Update.* Karen Steensma, Trinity Western University, Canada <http://www.wcfarmfriends.com/go/doc/1579/216272>

Kestrels, barn owls and bats biology and nesting box information from Ben Dover, consultant in WA. Orchard Guard 509-910-6598 <http://orchardguard.com/index.html>

Everything bat, free bat box plans and some great research technicians that do travel at Bat Conservation International <http://www.batcon.org/>

Wild Wing Company. Great designs in nesting boxes for barn owls, raptors, bluebirds and more based in CA and travels. John Schuster 707-327-8505 <http://www.wildwingco.com/>

*The Willamette Valley Landowner's Guide to Creating Habitat for Grassland Birds.* The Oregon Conservation Strategy. Oregon Department of Fish and Wildlife and Oregon Zoo [http://www.dfw.state.or.us/conservationstrategy/grassland\\_birds.asp](http://www.dfw.state.or.us/conservationstrategy/grassland_birds.asp)

*Using Bats for Pest Management* Mike Omeg, Omeg Family Orchards, The Dalles OR. This is an excellent slideshow done by the farmer on increasing bats in the orchard for pest management.

There are other very interesting documents at this site on birds, bats and insectary plantings in cherry orchards.

<http://www.omegorchards.com/pdf/Colorado-Omeg-Bats.pdf>

## Farmscaping

*A Whole-Farm Approach to Managing Pests.* May 2000. Sustainable Agriculture Research and Education (SARE) Learning Center. Includes examples of conservation practices in various agro-ecosystems increasing on-farm beneficial populations Free download  
<https://www.sare.org/Learning-Center/Bulletins/A-Whole-Farm-Approach-to-Managing-Pests/Text-Version>

*Bringing Farm Edges Back to Life: Landowner Conservation Handbook*  
Yolo County Resource Conservation Handbook  
221 West Court St., Ste 1, Woodland, CA 95695  
530-662-2037 x5 [www.yolocrd.ca.gov](http://www.yolocrd.ca.gov)

*Cover Cropping for Pollinators and Beneficial Insects.* A Sustainable Agriculture Research and Education (SARE) Publication by Xerces and NRCS staff 2015 Available free at [www.sare.org/cover-cropping-for-pollinators](http://www.sare.org/cover-cropping-for-pollinators) or 301-779-1007 This is an excellent publication on insectary cover crops, their mixes and even includes some native species. It was co-written by Xerces and USDA, NRCS and published in 2015.

*Farmscaping to enhance biological control.* Rex Dufour 2000 ATTRA, Fayetteville AK  
<http://attra.nact.org/attra-pub/PDF/farmscaping.pdf>

*Farming with Native Beneficial Insects.* Eric Lee-Mader, Jennifer Hopwood, Lora Morandin, Mace Vaughan, Scott Hoffman-Black Story Publishing 2014 by The Xerces Society  
<http://www.xerces.org/farming-with-native-beneficial-insects/>

*Habitat Planning for Beneficial Insects. Guidelines for Conservation Biological Control.* Jennifer Hopwood et al. 2016. The Xerces Society for Invertebrate Conservation. This contains more details on the insects that the book, *Farming for Beneficial Insects*, listed above. Free download at <http://xerces.org/habitat-planning-for-beneficial-insects/>

*Valuing Sustainable Ag Practices.* Robert J Maggiani and Jane Grimsbo 2013, ATTRA, Fayetteville AK Will be posted at [www.attra.ncat.org](http://www.attra.ncat.org) in 2014

Federal Conservation Resources for Sustainable Farming and Ranching. Jeff Schaczenski 2010, ATTRA, Fayetteville AK <https://attra.ncat.org/...-pub/summaries/summary.php?pub=280>

*Restoring Rare Native Habitats in the Willamette Valley.* Bruce H. Campbell 2004. Defenders of Wildlife, 1880 Willamette Falls Drive, Ste.200, West Linn, OR 97068 503-697-3222  
[www.biodiversitypartners.org](http://www.biodiversitypartners.org)

*Shrub-Steppe and Grassland Restoration Manual for the Columbia Basin.* Benson, JE, RT Tveten, MG Asher and PW Dunwiddle, 2011 <http://wdfw.wa.gov/publications/01330/>

Natural Resources Conservation Service Centers  
2701 NW Vaughan St. Ste 450  
Portland Oregon, 97210 503-655-3144

NRCS has offices across Oregon. They have many resources on native plants and conservation practices. They can help farmers utilize farm bill conservation programs such as the Conservation Stewardship Program or Organic Equip. They can also supply technical support for adopting conservation practices.

Teresa Matteson, Conservation Planner Extraordinaire  
Benton Soil and Water Conservation District  
456 SW Monroe Ave., Suite 110  
Corvallis, Oregon 97333  
ph: 541.753.7208

The Benton SWCD has active programs in Integrated Biological Pest Management (IBPM), soil health, pollinators. They also have an informative mailing lists, annual native plant sales, cost share programs and enews <https://www.bentonswcd.org/> Teresa is a very Farmscaping savvy conservation planner with the district.

Clackamas County Soil and Water Conservation District  
211 Molalla Ave. Ste 102  
Oregon City, OR 97045 503-210-6002

Lisa Kilders [lkilders@conservationdistrict.org](mailto:lkilders@conservationdistrict.org)

Another SWCD very active in farmscaping practices and resources. They also have an annual native plant sale, cost-share and grant programs to help install insectary plantings. They sponsor educational workshops on conservation practices.

## Hedgerows

*A Guide to Multifunctional Hedgerows in Western Oregon.* Jude Hobbs and Dan McGrath 1998, Revised 2020. Oregon State University Extension Pub EM 8721. Available for free download at <http://ir.library.oregonstate.edu/jspui/handle/1957/15725>

*Conservation Buffers in Organic Systems. Western States Implementation Guide.* June 2013. National Center for Appropriate Technology, Oregon Tilth and Xerces Society.

[https://www.westernsare.org/content/download/74228/1251094/Conservation Buffers in Organic Systems--Oregon Implementation Guide.pdf?inlinedownload=1](https://www.westernsare.org/content/download/74228/1251094/Conservation_Buffers_in_Organic_Systems--Oregon_Implementation_Guide.pdf?inlinedownload=1)

*Hedgerows and Farmscaping for California Agriculture. A Resource Guide for Farmers.* 2<sup>nd</sup> Edition Sam Earnshaw, 2004. Published by Community Alliance of Family Farmers, Davis, CA <https://www.caff.org/resources/on-farm-sustainability/>

*Establishing Hedgerows on Farms in California.* Rachael Long, UCCE and John Anderson of Hedgerow Farms in Yolo County. 2010 <http://ccpestmanagement.ucanr.edu/files/237345.pdf>

*Estimated Costs to Establish Pollinator Hedgerows.* 2016. The Xerces Society for Invertebrate Conservation. Free download <https://www.xerces.org/publications/fact-sheets/estimated-costs-to-establish-pollinator-hedgerows>

*Establishing Pollinator and Beneficial Insect Habitat on Organic Farms in Idaho. An Installation Guide for Meadows and Hedgerows.* Jennifer Hopwood et. al., 2017. The Xerces Society for Invertebrate Conservation. Free download <https://www.xerces.org/publications/higs/idaho-organic-farms>

University of CA Hedgerow Website <http://ccpestmanagement.ucanr.edu/Hedgerows/>  
This site has loads of good information and publications (free and downloadable) by a western US hedgerow expert, Rachael Long.

*Hedgerows enhance beneficial insects on farms in California's Central Valley.* Lora Morandin, Rachael Long, Corin Pease and Claire Kremen in California Agriculture. October-December 2011. Vol.65 Number 4  
<http://ucanr.org/repository/cao/landingpage.cfm?article=ca.v065n04p197&fulltext=yes>

## **In-Field Insectary Plantings**

*Cover Cropping for Pollinators and Beneficial Insects.* Sustainable Agriculture Research and Education Program. Available at: [www.sare.org/cover-cropping-for-pollinators](http://www.sare.org/cover-cropping-for-pollinators) or order free at 301-779-1007 This is an excellent publication on insectary cover crops, their mixes and even includes some native species. It was co-written by Xerces and USDA, NRCS and published in 2015.

GardenSmart Oregon. A guide to non-invasive plants, Jennifer Goodridge, Mitch Bixby, and Leslie Winter-Gorsline <http://oregoninvasiveshotline.org>

## **Selecting Appropriate Native Plants for On-farm Habitats**

Good native plants/seeds website: <http://www.nativeseednetwork.org/>, <http://www.plantnative.com>

*Plants for Pollinators in Oregon.* Kathy Pendergrass, Mace Vaughan, and Joe Williams. 2007. USDA Natural Resources Conservation Service and Xerces Society for Invertebrate Conservation. *Technical Note No. 13, USDA NRCS Plant Materials Center Corvallis, OR.97331 541-757-4812 x 102*  
[https://plants.usda.gov/pollinators/Plants for Pollinators in Oregon PM%2013.pdf](https://plants.usda.gov/pollinators/Plants_for_Pollinators_in_Oregon_PM%2013.pdf)

*Plants for Pollinators in the Inland Northwest.* Pamela Pavek et al. 2013 USDA Natural Resources Conservation Service Spokane, WA – Boise, ID Biology Tech Note No.24 Revised March 2013  
[http://www.nrcs.usda.gov/Internet/FSE\\_PLANTMATERIALS/publications/wapmctn11733.pdf](http://www.nrcs.usda.gov/Internet/FSE_PLANTMATERIALS/publications/wapmctn11733.pdf)

Oregon State University's Oregon Floral Project Native Plant ID App *The Oregon Wildflower App*  
Linda Hardison [hardisol@science.oregonstate.edu](mailto:hardisol@science.oregonstate.edu)  
<http://extension.oregonstate.edu/news/release/2014/04/osu-app-brings-wildflower-identification-your-fingertips> , [www.oregonflora.org](http://www.oregonflora.org)

*A Pictorial Guide to Hedgerow Plants for Beneficial Insects.* Omar Rodriguez and Rex Dufour. October 2017, National Center for Appropriate Technology, ATTRA <https://attra.ncat.org/product/a-pictorial-guide-to-hedgerow-plants-for-beneficial-insects/>

Natural Resources Conservation Service (NRCS) Centers  
2701 NW Vaughan St. Ste 450  
Portland Oregon, 97210 503-326-3941

NRCS has offices across Oregon. They have many resources on native plants and conservation practices. They can help farmers utilize farm bill conservation programs such as the Conservation Stewardship Program or Organic Equip. They can also supply technical support for adopting conservation practices.

Corvallis, NRCS, Plant Materials Center  
3415 NE Granger Ave.  
Corvallis, OR 97330 541-575-4812  
Director, Annie Young-Mathews X 2282

The PMC is a little-known jewel of the Willamette Valley. They have excellent tech notes on establishing native forbs, grasses and woody perennials at their website. You must go to the main NRCS website and type in Plant Materials Centers (PMC). Their staff is well versed in growing native plants and regularly conduct trials on establishment of native forbs and cover crops. They have several demonstration hedgerows and hold annual workshops.

Pullman NRCS Plant Materials Center  
PO Box 646211 211-A Hubert Hall  
Washington State University  
Pullman, WA 99164-6211 509-335-7376  
[Pmc\\_nracs@wsunix.wsu.edu](mailto:Pmc_nracs@wsunix.wsu.edu)

Native Plant Society of Oregon  
PO Box 902  
Eugene, OR 97444  
[www.npsoregon.org](http://www.npsoregon.org)

A great resource with chapters all over the state. Many chapters are quite active and have native plant ID hikes and events throughout the year.

### **Native Plant/Seed Nurseries**

**Information:** For a more complete list of native plant/seed nurseries in Oregon got to the Plantnative.org website: [http://www.plantnative.org/nd\\_or.htm](http://www.plantnative.org/nd_or.htm)

Oregon Association of Conservation Districts (OACD)  
1130 Liberty St. Ste. 3  
Salem, OR 97309 Phone: (503) 706-8450  
Fax: (503) 588-2577 [oacd@oacd.org](mailto:oacd@oacd.org)

Has a directory of all the Oregon Soil and Water Conservation District offices. Most SWCD's have annual native plant sales and resources on Oregon native plants. Most districts also have cost-share and grant programs to help install insectary plantings as well as conduct and sponsor educational workshops on conservation practices. Many Oregon SWCD's have conservation planners that can help landowners develop conservation plans and work with their local NRCS offices.

### **Nurseries:**

Bosky Dell Natives  
23111 Southwest Bosky Dell Lane  
West Linn, OR 97068-9130  
503-638-5945 [www.boskydellnatives.com](http://www.boskydellnatives.com)

Heritage Seedlings Inc.  
41947 1st Ave. SE, Salem Oregon 97317  
Lynda Boyer  
503-585-983 [www.heritageseedlings.com](http://www.heritageseedlings.com)

Humble Roots Nursery  
2355 Osborn Cutoff Rd  
Mosier, OR 503-449-3694  
[humbleroots@gorge.net](mailto:humbleroots@gorge.net)  
[www.humblerootsnursery.com](http://www.humblerootsnursery.com)

Mt Jefferson Farm  
PO Box 12798  
Salem, OR 97309  
503-363-0467

One Green World  
6469 SE 134<sup>th</sup> Ave.  
Portland, Oregon 97236  
877-353-4028

Oregon Wholesale Seed Co/Silver Falls Seed Co (retail)  
Kevin and Lori Loe  
5648 Evans Valley Loop NE  
Silverton, OR 97381 503-874-8221

Pacific Northwest Natives  
Craig Edminster  
P O Box 3162, Albany, OR 97321  
541-928-8239 [cwe@proaxis.com](mailto:cwe@proaxis.com)

River Refuge Seed Co. (wetland plants)  
David Rogers  
26366 Gap Rd.  
Brownsville, OR 97327  
541-466-5309 [www.riverrefugeseed.com](http://www.riverrefugeseed.com)

Scholls Valley Native Nursery  
Sara Kral  
4036 NW Half Mile Ln  
Forest Grove, OR 97116  
503-624-1766

SevenOaks Native Nursery  
29730 Harvest Drive SW  
Albany, OR 97321  
541-757-6620

Trillium Gardens (native plugs)

34610 OR 58 (exit 188)  
Eugene, OR 97405  
541-937-3073

Wildwood Mahonia Nursery  
4985 SE Battle Creek Rd.  
Salem, OR 97302  
503-585-8789

Willamette Gardens  
3290 SW Willamette Ave.  
Corvallis, OR 97333-1509  
541-754-9326  
[natives@willamettegardens.com](mailto:natives@willamettegardens.com)

Willamette Wildlings  
Creswell, OR 97426 On-line Nursery only  
541-767-9142 [natives@willamettewildlings.com](mailto:natives@willamettewildlings.com)

Wintercreek Restoration  
Karen Theodore  
63405 Deschutes Market Rd.  
Bend, OR 97709 541-948-0661  
[www.wintercreekrestoration.com](http://www.wintercreekrestoration.com)

## **Pollinators**

Bumble bee pocket identification guides by Elaine Evans and The Xerces Society  
Downloads available at: <http://www.xerces.org/identification-guides/>

*Common Bee Pollinators of Oregon Crops*. Sarah Kincaid 2016 Oregon Department of Agriculture,  
635 Capitol St. NE, Salem, OR 97301  
<http://www.oregon.gov/ODA/shared/Documents/Publications/IPPM/ODABeeGuide.pdf>  
[www.oregon.gov/ODA](http://www.oregon.gov/ODA) 503-986-4636 1-800-525-0137  
This is a great ID booklet for native bees. Sarah runs the Oregon Bee Project at ODA.

On-line Bumble Bee identification site: [www.discoverlife.org/mp/20q?guide=Bumblebees](http://www.discoverlife.org/mp/20q?guide=Bumblebees)

*Bumble Bees of the Western United States* by Jonathon Koch, James Strange and Paul Williams,  
2012. Well done, informative publication with limited species. <http://purl-fdlp-gov/GPO/gpo29046>

Tons of good information from the Xerces Society of Invertebrate Conservation at the Pollinator  
Conservation Resource Center <http://www.xerces.org/pollinator-resource-center/>

*Farming for Bees: guidelines for providing native bee habitat on farms*. Vaughan, M., M. Shepherd, C.  
Kremen, S. H. Black. 2007. The Xerces Society for Invertebrate Conservation. Portland, Oregon.  
(This 40-page booklet provides details on how to protect, enhance or restore habitat for native bees in  
farm landscapes; available for download at  
[http://www.xerces.org/Pollinator\\_Insect\\_Conservation/Farming\\_for\\_Bees\\_2nd\\_edition.pdf](http://www.xerces.org/Pollinator_Insect_Conservation/Farming_for_Bees_2nd_edition.pdf))



*How to Reduce Bee Poisoning from Pesticides.* Riedl, H., E. Johansen, L. Brewer, and J. Barbour. 2006. Pacific Northwest Extension Publication 591. Oregon State University, Corvallis, OR. (Available online at <http://extension.oregonstate.edu/catalog/pdf/pnw/pnw591.pdf>)

*How to Manage the Blue Orchard Bee as an Orchard Pollinator.* Bosch, J. and W. Kemp. 2001. Sustainable Agriculture Network handbook series #5. USDA-SARE, Beltsville, MD. (A comprehensive review of the blue orchard bee, also called the orchard mason bee, and the best way to manage it.)

*Attracting Native Pollinators, Protecting North America's Bees and Butterflies.* 2011 Story Publishing by Xerces Society. My favorite so far on native bees and habitat. Get it at [www.xerces.org](http://www.xerces.org)

*Using Farm Bill Programs for Pollinator Conservation Tech Note No.78.* Xerces, NRCS and San Francisco State University <http://www.xerces.org/wp-content/uploads/2009/04/using-farmbill-programs-for-pollinator-conservation.pdf>

The Pollinator Partnership ([www.pollinator.org](http://www.pollinator.org)) and the North American Pollinator Campaign ([www.nappc.org](http://www.nappc.org)) have produced free, well done, ecoregion specific planting guides for pollinators. Go to <http://www.pollinator.org/guides.htm>, enter your zip code and download your local, Selecting Plants for Pollinators Guide. For the Willamette Valley the ecoregion is the Pacific Lowland Mixed Forest Province (R.G. Bailey's classification system # 242

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