

Central Oregon Agriculture

VOLUME 23 ISSUE 4

July / August 2014

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Central Oregon Agricultural Research Center Welcomes Dr. Jeness Scott

COARC would like to welcome Dr. Jeness Scott to the COARC Plant Pathology program. Jeness was hired as a Faculty Research Assistant in Dr. Jeremiah Dung's laboratory on June 23, 2014. Jeness will provide key technical and scientific support to Jeremiah's program, assisting and coordinating research activities in the laboratory, greenhouse, and field. Jeness brings over ten years of experience researching fungal and bacterial plant pathogens, specializing in soil-borne pathogens. Jeness earned her Ph.D. at the University of California, Davis, where her dissertation focused on Fusarium wilt of lettuce. She later conducted postdoctoral research at the University of California on Verticillium wilt of strawberry and leaf-colonizing bacteria. Prior to arriving at COARC, Jeness was a postdoctoral researcher at the University of Minnesota, where she studied resistance to stem rust in wild relatives of wheat and barley.

Jeremiah Dung

High Desert Garden Tour

Join us for the annual High Desert Garden Tour on Saturday, July 19th, 2014, from 9:00 am to 3:00 pm. View seven beautiful gardens in the Tumalo area. This is a self-guided tour presented by the OSU Extension Service and OSU Master Gardeners™. Ticket books are \$10 each; age 16 and under is free. Tickets can be purchased at the following outlets: Moonfire and Sun Garden Center, Strictly Organic Coffee Co., Worthy Brewing, Shoe Inn, Bend; Schultz Farm and Garden, Redmond, OSU/Deschutes County Extension Service, Redmond, and OSU/Crook County Extension Service, Prineville. For more information call the OSU/Deschutes County Extension Service at (541) 548-6088.

Amy Jo Detweiler

COARC Cereal Field Day

The 2014 COARC Cereal Field Day will be on Tuesday, July 29th from 9:30 am - 12:00 Noon, at the Central Oregon Agricultural Research Center (Madras, Oregon), with a FREE lunch following afterwards. Items for the day include: wheat trial plot tours, information on growing barley and wheat nitrogen use. For more information call the Central Oregon Ag Research Center at (541) 475-7107 or email katie.rolls@oregonstate.edu.

Katie Ralls

Pesticide Applicator Online Courses Are Now Available!

COARC is pleased to announce that the pesticide applicator courses Marvin Butler and Katie Ralls have designed, along with OSU PNE (Professional Non-Credit Education), are now available to take online for credit. Each course is \$20, takes approximately one hour in length and is worth one pesticide credit. To register go to: <https://pace.oregonstate.edu/catalog/> and look under, "Pesticide Applicator." Feel free to take the course at your own time and pace. Keep checking back as more classes become available.

Katie Ralls

Third Annual Small Farm School Saturday, September 6, 2014 (Registration begins July 15th) Clackamas Community College, Oregon City, Oregon

The Small Farm School is a full day event with hands on and classroom workshops for beginning farmers and small acreage rural landowners.

Field and classroom workshops include pig and poultry management, fruit and vegetable production, soil management, tractor safety and operation, on farm veterinary care, and much more. See: [Small Farms](#) (Link).

Toni Stephan

Central Oregon Agriculture is a bi-monthly newsletter produced by the Central Oregon Extension offices and the Central Oregon Agricultural Research Center (COARC). The intent of this newsletter is to extend agricultural research-based information to solve problems, develop leadership and manage resources wisely. Please direct comments and changes to the mailing list to your local County office.

- ◆ Mylen Bohle, Editor, (541) 447-6228 or Cell (541) 419-5714
- ◆ Pamela Wiederholt, Ag Newsletter Coordinator/ Webmaster, (541) 447-6228

Central Oregon County Extension Offices
(all area codes are 541)

- ◆ Dana Martin, Regional Administrator, 548-6088

Crook County Extension Service - Phone 447-6228, 498 SE Lynn Blvd., Prineville, OR 97754

Deschutes County Extension Service - Phone 548-6088, 3893 SW Airport Way, Redmond, OR 97756

Jefferson County Extension Service - Phone 475-7107, 850 Dogwood Lane., Madras, OR 97741

Warm Springs Indian Reservation - Phone 553-3238, 1110 Wasco St., PO Box 430, Warm Springs, OR 97761

Central Oregon Agricultural Research Center

- ◆ Carol Tollefson, Operations Director, 475-7107

Madras Site - Phone 475-7107, 850 Dogwood Lane, 97741

Powell Butte Site - 8215 SW Hwy. 126, 97753

Extension Service & Experiment Station Web Sites

Crook County: <http://extension.oregonstate.edu/crook>

Deschutes County: <http://extension.oregonstate.edu/deschutes>

Jefferson County: <http://extension.oregonstate.edu/jefferson>

Central Oregon Agricultural Research Center:
<http://oregonstate.edu/dept/coarc/index.php>

Central Oregon Agricultural Extension Service Staff

- ◆ Mylen Bohle, Forage, Hay, Pasture, Cereals, 447-6228
- ◆ Marvin Butler, Vegetable Seed, Grass Seed and Peppermint Production, 475-7107
- ◆ Tim Deboodt, Range Resources and Livestock, 447-6228 or Cell 419-5712
- ◆ Amy Jo Detweiler, Horticulture, 548-6088
- ◆ Jeremiah Dung, Plant Pathology, 475-7107
- ◆ Toni Stephan, Horticulture & Small Farms Instructor, 548-6088

The above individuals are devoted to extending agricultural information to producers. Many of the individuals, in addition to agriculture, have assignments in research, 4H/youth, administration and community resource education.

Often it is appropriate to mention brand names of some commercial products; however, they are used only for the purpose of information. Extension does not guarantee or warrant the standard of the product, or does it imply approval of the product to the exclusion of others.

Is There a Stream or Pond on Your Property in Need of Riparian Restoration?

The Oregon Conservation Reserve Enhancement Program (CREP) is once again open for sign-up and could be the solution to assist you. The CREP provides a cost-effective way for landowners to restore and enhance riparian vegetation along streams and around permanent water bodies.

- An annual rental rate is offered, plus cost-share payments of up to 75 percent of the eligible costs to install conservation practices.
- Administered through the Farm Service Agency (FSA), the CREP addresses conservation issues such as impacts to water resources, soil erosion, critical habitat, and reduced habitat for fish populations such as salmon.
- The CREP is a community-based effort that emphasizes results-oriented projects, while presenting an opportunity to foster a partnership between producers, the state and federal governments, and the local soil and water conservation districts.
- During the 10 – 15 year contract period the CREP provides payments to producers who offer to voluntarily remove riparian areas from production through the creation of a buffer (minimum 35') along the stream.
- Common practices include riparian fencing, riparian planting, weed control, and off-site watering facility establishment. The program offers an additional one time sign-up incentive payment and a practice-completion payment.

If you would like additional information about the program, or would like to schedule a site visit please contact the CREP Planner for Jefferson, Crook and Deschutes Counties:

John Speece, CREP Planner, (541) 923-4358 ext. 139

Oregon: <http://www.oregon.gov/OWEB/pages/crep.aspx> (Link)

FSA: <http://www.fsa.usda.gov/FSA/>.

John Speece

What is Hay Worth?

Wondering what the price of hay is? Whether you are buying, selling, or raising hay, you may want to get in on the weekly call from USDA Market News Service, Portland, Oregon. The Central Oregon hay market report can be freely accessed at: [Hay Report](#) (Link), or to check on different state markets go to: [Agricultural Marketing Service](#) (Link).

Once you are signed up to participate in the hay market report (if you would like to contribute), someone from the office will call (or you can call) and inquire if you have sold hay, number of tons, for what price, what the quality is, etc. This information is then compiled weekly and put up on the Internet report and also published in the Capital Press. The idea is, if both seller and buyer know the market, then a true, free and fair market exists for all concerned. It also works if you want to buy hay and you are wondering where the market is at, when looking for hay to purchase.

Field Office: USDA Market News Service, Portland, Oregon

Office Email: Portland.LPGMN@ams.usda.gov

Phone: (503) 326-2237

24 Hour Grain Price Information: www.ams.usda.gov/mnreports/ML_GR313.txt or www.ams.usda.gov/lsmarketnews (Link).

Mylen Bohle

Mint Pest Alert Electronic Newsletter

This electronic newsletter is being used to inform growers, fieldsmen and industry representatives in the mint production areas of Oregon about mint root borer and cutworm/armyworm development by geographic regions. These three pests have life cycles that offer opportunities for multiple target insect control with a single, properly timed pesticide application. This electronic Pest Alert notification system will assist in management decisions that maximize the effectiveness of insecticide applications for these pests. A newsletter will be sent out once a week to three different regions: Central Oregon, Grande Ronde Valley and Willamette Valley. Visit the [Mint Pest Alert](#) (Link) to view past newsletters.

Katie Ralls

Sage Grouse CCAA Update

Crook County farmers and ranchers are stewards of our lands and environment. Rangeland management practices serve to maintain and enhance habitat beneficial to both livestock and the preservation of native species. The emergence of candidate species for Federal ESA listing have made it vitally important for landowners to articulate their commitment to beneficial rangeland management and to secure Federal assurances that will protect our future land use interests and ways of living in the event of a species' listing.

In September, 2015, the USFWS will be making their final determination of the Sage-grouse listing. If Sage-grouse become protected as a threatened or endangered species, federal agencies will be required to consult with USFWS on projects and approvals that affect its habitat. "Taking" a Sage-grouse will be illegal, and the USFWS will be required to designate "critical habitat" resulting in further restrictions upon activities within those areas.

Crook County Soil and Water Conservation District is working with the other SWCD's from Harney, Grant, Baker, Lake, and Malheur counties to submit a "Greater Sage-Grouse Programmatic Candidate Conservation Agreement with Assurances for Private Rangelands" to the USFWS which articulates our county's landowner habitat conservation measures and will secure land use assurances important to the protection of our ranches, farms, and communities. For more information contact the Crook County Soil and Water Conservation District at (541) 447-3548.

Pricilla Johnson

Attention Swine Owners: Take Precautions Against New Deadly Pig Disease

Porcine Epidemic Diarrhea Virus is a swine disease that first appeared in the US in Iowa in May of 2013. Since that time it has spread to 26 states. As of yet, it has not been reported in Oregon, but awareness is necessary to combat the spread of this disease in our state. Learn more in this [Report](#).

Tim Deboodt

Two Bee Presentations to be Held July 17th and August 11th in Prineville, Oregon

Whether you are a hobbyist beekeeper, an avid beekeeper, or merely just interested in the craft of raising bees, the Prineville Honey Bee Mentoring Partnership is inviting the public to two summer presentations at Bowman Museum in Prineville, Oregon.

The first presentation will be Thursday, July 17th, 6:00 pm, with guest speaker Trevor Riches. If you are a beekeeper, feel free to bring along a jar of your extracted honey for Trevor to offer an informal critique.

Mr. Riches' presentation will cover more than the basics of proper harvesting and production of honey, he also will present the requirements of "How to Enter a Honey Show". A Honey Show promotes higher standards for the products from a beekeeper's hives and informs the consumers of those expected standards. He will cover how to make the standard entries than how to judge honey products. The importance of cleanliness, clarity and aroma are some of the traits we look for in all of our foods.

Trevor is presently a Journey Level Beekeeper in the Oregon Master Beekeeping Program that is jointly run by the Oregon State Beekeepers Association and Oregon State University. He currently is an assistant judge, working towards his certification as a Welsh Honey Judge; which he hopes to have completed by 2015. He is working together with Dr. Dewey Caron, where Trevor has been instrumental in rewriting the Honey Competition Rules and bringing about a separate provision for the Honey and Products of the Hive Competition within the Oregon State Fair.

The second presentation will be Monday, August 11th (call (541) 447-7907 for a time), at the Bowman Museum in celebration of National Honey Bee Day. An array of information about honey bees and beekeeping as well as a special photography show by a professional photographer, Debra Hollern will be presented.

Please direct questions to Richard Nichols at (541) 447-7907.

The Bowman Museum is located in Prineville at 246 N. Main Street.

Amy Jo Detweiler

Eastern Oregon Liming Guide

As we continue to add more years of farming to our soils, soil pH has been declining and becoming more acidic. At some point, depending upon the crop to be grown, the soil pH needs to be raised to allow beneficial and economical growth of the crop. The cost of doing so is always a major capital outlay. There is a new "Eastern Oregon Liming Guide", EM 9060, published by OSU Extension Service. It is available online at: <http://ir.library.oregonstate.edu/xmlui/bitstream/handle/1957/38532/em9060.pdf>.

Mylen Bohle

Limited Irrigation and Rain this Year?

The “Drought” word is certainly creeping into more and more conversations as we head toward summer. We have links on the Crook County Extension Service web site that might be of interest to help producers manage their forage and livestock during drought conditions. See [Irrigation](#) (Link).

Mylon Bohle

Miscellaneous Ag Articles

Crop Water Use Program / [Table.pdf](#)

Growing Degrees Update / [Table.pdf](#)

Nitrogen Needed to Produce Forage / [Table.pdf](#)

USDA's Farm Service Agency Disaster Assistance Program / [Disaster Assistance Information.pdf](#)

Mylon Bohle

OSU Plant Clinic Clients

Oregon State University Plant Clinic is raising their service charges associated with diagnostics as of July 1, 2014. There has not been a fee increase for three years, yet costs for reagents, materials, and diagnostic supplies have gone up each year. With increasing costs and reduced state support, and in order to maintain their current level of service to clients, a new fee structure has been initiated. See [2014 Service Charges](#) (PDF).

Mylon Bohle

Introductory Basic HACCP

July 29 & 30, 2014

238 Wiegand Hall, Oregon State University Campus, Corvallis, Oregon

HACCP stands for **Hazard Analysis and Critical Control Points**. It is a way for industry to control and prevent problems, and ensure safe food by controlling the production process from beginning to end, rather than detecting problems at the end of the line.

The objective of this workshop is to provide an overview of the prerequisite programs (Good Manufacturing Practices/ GMPs and Sanitation Standard Operating Procedures/SSOPs) as a foundation for developing HACCP based food safety plans. See <http://oregonstate.edu/foodsci/haccp> (Link).

Debby Yucas, Ph: (541) 737-6483 or toll-free 1-800-823-2357

Potassium Rate Effect on Grass Hay

Each year more hay fields in central Oregon are testing low in potassium. The Central Oregon Hay Growers' Association is partially funding this grass potassium source and rate trial in the Tumalo area to determine biological and economical yield response to K fertilizer. The site was chosen because the soil test potassium level was low - 58 ppm for the 0-6 inch, and 59 ppm for 0-12 inch soil test. The field is a Central Oregon Pasture Mix of grasses with an excellent stand. Beef feedlot Manure was applied on April 7, 2014 and Potassium Chloride was the source for the Potassium rates that were applied on April 4, 2014 (one treatment of each source was split with a half rate applied for first cutting and a half rate applied for second cutting). The 100 lb/ac nitrogen rate (ammonium nitrate) was applied to the potassium chloride treatments on April 18 and then 75 lb/ac nitrogen (ammonium nitrate) was applied to the manure treatments on May 19, after it became apparent that it would take a while for the N in the manure (about 25 lb N per DM ton of manure) to become available. The manure contains about 50 lb K per DM ton of manure. The 1st cutting was harvested on June 16, 2014. The grass mix hay responded to both sources of potassium. This trial should provide some interesting results over the next few years. First cut hay yield results are in the table.

Potassium Rate Effect on Mixed Grass Species Hay

Potassium Rate	0 K (lb/ac)	100 K (lb/ac)	200 K (lb/ac)	300 K (lb/ac)	100 K on 1 st & 100 K on 2 nd (lb/ac)
Yield	2.32	2.80	2.81	3.32	3.03

A more complete Table and results are at: [Potassium Rate Effect on Grass Hay](#) (PDF)

Mylon Bohle

Gardening...Get Good at It

Want to learn more about gardening? Please join OSU Master Gardeners and OSU Staff at any of these upcoming classes. All speakers will share researched-based gardening information specific to Central Oregon.

For additional information on any of these classes call (541) 548-6088. For a list of all of our gardening classes this season go to: <http://extension.oregonstate.edu/deschutes/garden-classes> or www.goCOMGA.com

Every Tuesday morning between 9:00 am and 9:30 am, Central Oregon Master Gardeners talk about the adventure and challenges of gardening in Deschutes, Crook and Jefferson Counties. Tune in to KPOV radio 88.9 FM to listen and learn!

<u>Class / Events</u>	<u>Location</u>	<u>Date</u>	<u>Time / Fee</u>
Lunch N Learn: Summer Gardening Care	Redmond - OSU/Extension Service office, Deschutes Fairgrounds.	July 15	12:15 pm
Herbs & Edible Flowers	Bend - Hollinshead Community Garden	July 17	5:30 pm
High Desert Garden Tour	Tumalo - Various Home Gardens (see article front page)	July 19	9:00 am - 3:00 pm
Designing and Planting with Bulbs	Bend - East Bend Public Library, 62080 Dean Swift Road	August 2	1:30 pm
Composting	Bend - Hollinshead Community Garden	August 16	10:30 am
Lunch N Learn: Vegetable Garden Harvesting & Food Preservation Tips	Redmond - OSU/Extension Service office, Deschutes Fairgrounds	August 19	12:15 pm
Open House and Mini Classes	Redmond – Demo Garden, Deschutes Fairgrounds	August 23	10:00 am
Open House and Mini Classes	Bend - Hollinshead Community Garden	September 6	10:00 am
Lunch N Learn: Seed Saving, Garden Clean-up and Cover Crops	Redmond—OSU/Extension Service office, Deschutes Fairgrounds	September 16	12:15 pm

Amy Jo Detweiler

Lost Rivers Grazing Academy: Intensive Management of Irrigated Pastures Workshop September 9-12, 2014, Salmon, Idaho

For producers of beef and dairy cattle, sheep, horses, and other domesticated grazing animals; professionals working in livestock-related industries. See Scott Jensen at (208) 896-4104 or scotti@uidaho.edu, Chad Cheyney at (208) 527-8587 or ccheyney@uidahol.edu, or [Brochure](#) (PDF Link).

Mylon Bohle

Heritage Barn Workshop Saturday, September 27th, 9:30 am - 4:00 pm, Central Point, Oregon

Whether you're a barn owner, a preservation professional, or just an admirer of rural heritage, this workshop will provide the basics of what it takes to document and preserve Oregon's historic barns. See (503) 243-1923, infor@restoreoregon.org (Link) or <http://www.restoreoregon.org> (Link).

Mylon Bohle

Crop Water Use

Here we go again...another brutal July perhaps to challenge our irrigation management? It looks like we are heading into another hot July. It is challenging to keep up with irrigation needs when the temperatures are running between 90 and 100 degrees F.

Predicted daily crop water use for July 6-9, 2014 at Madras, Powell Butte, Bend, and Christmas Valley, Oregon.

	Madras	Powell Butte	Bend	Christmas Valley
Alfalfa Peak	0.35 – 0.42	0.34 – 0.36	0.28 – 0.30	0.32 – 0.40
Grass Hay Peak	0.32 – 0.38	0.31 – 0.34	0.25 – 0.27	0.30 – 0.37
Pasture	0.24 – 0.29	0.23 – 0.25	0.19 – 0.20	0.22 – 0.27
Winter Wheat	0.21 – 0.24	0.18 – 0.22	“error”	0.26 – 0.37
Spring Grain	0.35 – 0.42	0.34 – 0.37	0.28 – 0.30	0.32 – 0.40
Field Corn	0.34 – 0.41	0.34 – 0.37	0.27 – 0.30	---

Mylon Bohle

Calendar 2014

July

15 - September 16

Gardening...Get Good at It, Bend, Redmond, And Tumalo, Oregon (see article Page 5).

17 Bee Presentation, Prineville, Oregon (see article Page 3).

19 High Desert Garden Tour, Tumalo, Oregon (see article Front Page).

29 COARC Cereal Field Day, Madras, Oregon (see article Front Page).

29 & 30 Introductory Basic HACCP, Corvallis, Oregon (see article Page 4).

August

11 Bee Presentation, Prineville, Oregon (see article Page 3).

September

6 Third Annual Small Farm School, Oregon City, Oregon (see article Front Page).

9 - 12 Intensive Management of Irrigated Pastures Workshop, Salmon, Idaho (see article Page 5).

12 Crook County Stockgrowers Association Quarterly Meet, Post, Oregon, Allen Teskey (541) 477-3848.

27 Heritage Barn Workshop, Central Point, Oregon (see article Page 5).

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This publication will be made available in accessible formats upon request. Please call (541) 447-6228 for information. If you have a physical disability that requires special considerations in order for you to attend an event, please notify Pam Wiederholt at (541) 447-6228, three (3) days prior to event date.

RETURN SERVICE REQUESTED

OSU/Deschutes County Extension Service
3893 SW Airport Way
Redmond, OR 97756