

Central Oregon Agriculture

VOLUME 24 ISSUE 3

MAY/JUNE 2015

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Central Oregon Agricultural Research Center Welcomes Tracy Wilson!

Tracy is a native of Memphis, Tennessee. She graduated in 2006 from the University of Tennessee in Knoxville with a B.S. Degree in Animal Science. Tracy then completed her Master's Degree in Plant and Soil Science in 2011, and her Ph.D. in Soil Science in 2014 at Oklahoma State University. Her research in the past has focused on soil carbon sequestration in bioenergy crops, nitrous oxide emissions from various crops, as well as integrating summer cover crops into winter wheat cropping systems.

Tracy is excited to be in Central Oregon and a part of the Central Oregon Agricultural Research Center (COARC) Madras team. Her plans for future research include refining nutrient recommendations for carrot seed production, determining nitrogen mineralization rates for crop residues, to refine crop rotations, exploring "ferti-gation" usage for area crops; when to deliver nutrients to the crops when they are needed, and exploring ways to protect and enhance our soil resources. She is a member of the Tri-Societies (SSSA-CSSA-ASA) and the Soil and Water Conservation Society.

Tracy enjoys gardening, backpacking, kayaking, and sailing with her husband, Stuart, and daughter, Emma.

Society for Range Management (SRM) Pacific Northwest Section Fire in the Sagebrush Steppe Workshop, June 15 - 17, 2015, Harney County Chamber of Commerce, 484 N Broadway Ave., Burns, OR

Agenda:

Monday, June 15th

4:30 - 6:00 pm Advisory/Board Meeting - Everyone is welcome to attend and participate!
 4:00 - 6:00 pm Registration, Welcome and Networking
 6:00 - 8:30 pm Dinner and Plenary Speaker, Dr. Kevin Hatfield: "We were not Tramp Sheepmen: Joe Odiaga and the Oregon-Idaho Biskaian Basque Community, 1890-1946" and Iker Saitua (Basque Country), PhD candidate, UN Reno, "Sweet Public Lands: Basque Shepherders, Cattlemen & Problems over Federal Domain in Nevada, 1890-1934".

Tuesday, June 16th

8:00 - 5:00 pm Depart from Harney County Chamber of Commerce, field workshop to Miller Homestead fire. Topics: Interactions between fire, grazing, annual grasses and sage-grouse, restoration techniques, and collaborative resource planning.
 6:00 - 8:30 pm Dinner and Entertainment, Harney County Chamber of Commerce.

Wednesday, June 17th

8:00 - 12:00 Noon Depart from Harney Chamber of Commerce to Northern Great Basin Experimental Range. Topics: Interactions between fire, grazing, and juniper encroachment.

You are also invited to the first day of the 5th Annual High Desert Youth Range Camp! (see article back page).

For more [Information](#) (pdf), or contact Tim Deboodt at tim.deboodt@oregonstate.edu or (541) 447-6228.

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 of 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)

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

- ◆ Dana Martin, Regional Administrator, 548-6088
- ◆ Mylen Bohle, Cereals, Hay, Pasture and Irrigation, 447-6228
- ◆ Marvin Butler, Research
- ◆ Tim Deboodt, Range Resources and Livestock, 447-6228
- ◆ Amy Jo Detweiler, Horticulture, 548-6088
- ◆ Scott Duggan, Livestock, 553-3238
- ◆ Jeremiah Dung, Plant Pathology, 475-7107
- ◆ Tracy Wilson, Soil Health and Plant Nutrition, 475-7107
- ◆ Toni Stephan, Horticulture and Small Farms Instructor, 548-6088
- ◆ Nicole Strong, Forestry, 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.



New Adult Producer Mentor Program, Saturday, May 16, 2015, Blue Mountain Community College, Pendleton, OR

The Oregon Sheep Growers Association, in cooperation with Oregon State University, Blue Mountain Community College and the Oregon Purebred Sheep Breeders Association, is developing a mentorship program for new adult sheep producers in Oregon. The purpose of the mentor program is to develop relationships between new and experienced producers. The goal is to make the knowledge of experienced sheep producers available to new sheep owners.

There is no cost for this workshop, but pre-registration is required by **Friday, May 8th**, in order to plan for lunch. For more information contact John Fine at (541) 673-0369 or johnandpeggyfine@charter.net.

Central Oregon Goat Association 14th Annual Goat Jamboree, Saturday, May 16, 2015, Bluestone Gardens & Landscape, LLC, 12555 SW Hwy 126, Powell Butte, OR

Time: 8:00 am to 3:30 pm

Cost: Adults \$10.00, Youth \$5.00 and kids 8 and under Free.

Great Classes, Raffle, Items to Purchase and Concessions! For more information www.thecoga.org (Link).

Woodland Management Methods In Blue Mountain Forests, Thursday, May 21, 2015, Westminster Woods, Meacham, OR

Learn about basic forest management, tree thinning, fire and fuels reduction, incentive programs, matching tree species to your site and your objectives, and much, much, more. Pre-register by **Friday, May 15th**, or call the OSU Extension Union County office at (541) 963-1010.

Wildfire Field Workshop, Wednesday May 27, 2015, Prineville BLM Office, 3050 NE 3rd Street, Prineville, OR

Rick Miller, Professor Emeritus of Range and Fire Ecology, OSU and Jennifer Moffitt, Soil Scientist, Prineville BLM will discuss tools to rapidly assess resilience to disturbance (ability of a treatment area to recover), resistance to invasive annuals, predict successional pathways, and determine the need and suitability for seeding on potential vegetation treatment areas and areas burned by wildfire. These discussions will be based on two field guides, "A field guide for selecting the most appropriate treatment in sagebrush and piñon-juniper ecosystems in the Great Basin," and "Rapid assessment of post-wildfire recovery in sagebrush and piñon-juniper ecosystems in the Great Basin."

Workshop Location and Agenda:

8:00 am Meet at the Prineville BLM office.

8:30 am Three to four stops along an elevation gradient to discuss site evaluation, resistance and recovery potential, and treatment options in different soil temperature and moisture regimes.

5:00 pm Return to meeting location.

Note: Please bring a bag lunch.

Registration: The workshop is free of charge, but please pre-register so that we have enough materials by sending your name and contact information to Génie MontBlanc at emb@cabnr.unr.edu, or (775) 784-1107, by **Monday, May 18th**.

Forage Field Day Tour, Wednesday, June 3, 2015, Culver, Terrebonne & Tumalo, OR

The Central Oregon Hay Growers' Association, OSU Extension Service (Crook, Deschutes and Jefferson Counties), and the Central Oregon Ag Research Center are sponsoring the Forage Research Field Day Tour.

Tour Location and Agenda:

- 9:30 am - Jeff Whitaker Farm, Trial at 2285 SW Iris Lane, Culver, Nitrogen Rate Effect on Timothy Hay.
 11:00 am - Danny Clark Farm, 8407 NW 31st, Terrebonne, Lime, Potassium, and Interseeded 'Frosty' Berseem Clover Effect on Alfalfa Hay, Potassium Rate Effect on Alfalfa Hay.
 Noon - Lunch (on your own).
 2:00 pm - McGinnis Ranch, 64990 Collins Road, Tumalo (Bend)/Potassium Source and Rate Effect on Mixed Grass Hay, Nitrogen Rate Effect on Mixed Grass Hay.

For more information contact Mylen Bohle at (541) 447-6228 or Mylen.bohle@oregonstate.edu.

Irrigated Pasture and Grazing Management Field Day, Thursday, June 4, 2015, 5680 SW Quarry Road, Redmond, OR

Sponsored by the Deschutes County SWCD and OSU Extension Service, tour will begin at 6:00 pm and conclude at dusk. The pasture will be our laboratory and what is happening with the animals and the plants at this time of year will be our focus. Tammy Harty of Deschutes County SWCD, and Mylen Bohle, OSU/Crook County Extension Service, (and others unconfirmed) will be presenters.

Agenda and Discussion: Introductions, Producer goals for the Pasture, Demonstration of Pasture Stick, Dig & Look at Roots, Look at Pasture Plants, Watch the Animals Graze, Pasture Fertility, Grazing Management and Plant Heights (and Clipping Height Plots - not confirmed), Irrigation Management, SWCD Programs, *and* When and Where is the Next Pasture Field Day?

Please RSVP to Tammy Harty (541) 815-0203 or tammyharty@msn.com.

Youth Tractor Safety Education, Training & Certification Course, Monday, Tuesday & Wednesday, June 22, 23, 24, 2015, Jefferson County Rod & Gun Club, 2353 NW Clackamas Drive, Madras, OR

The Youth Tractor Safety Education, Training, and Certification Course is a 24-hour program designed to teach safe and responsible use of tractors, tractor implements, and machinery operation. It offers both classroom and hands-on tractor driving and skills experiences for youth ages 14-17 who are interested in employment in Oregon's agricultural industry.

Cost is \$75/participant (non-refundable), which includes *National Safe Tractor and Machinery Operation Program Manual*, reusable water bottle, snacks and drinks. (Students

will also receive T-shirt and Certificate after completion on Wednesday.)

Pre-registration is required by **June 5, 2015**. Students must be 14 by June 22, 2015. 4-H/FFA membership not required. Participants **must attend all sessions** to receive certification.

To register please visit: https://apps.ideal-logic.com/osuextension?key=F3T9-25VWY_K9KH-5PTF_19f0233a (Link). For more information contact Jon Gandy at (541) 475-3808 or jon.gandy@oregonstate.edu.

Regards to Rural, Friday & Saturday, June 26-27, 2015, Riverhouse Hotel & Convention Center, 3075 U.S. 97 Business, Bend, OR (Pre-session on June 25, 2015)

Presented by RDI, in partnership with the Nonprofit Association of Oregon, Oregon State University Rural Studies Program and Extension Service, Sustainable Northwest, and The Ford Family Foundation, the Regards to Rural 2015 conference, Navigating the Rivers of Change: Rural Communities in Transition, is a gathering to inform and inspire...all that is rural!

This year's conference features an abundance of 30+ sessions, workshops, and panels in addition to a pre-session, inspiring keynotes, and networking opportunities. For more [Information](#) (Link), or call (541) 684-9077.

Grazing Management for Riparian-Wetland Areas Training Course, Monday, June 29/9:00 am, Tuesday, June 30/8:00 am & Wednesday, July 1/8:00 am, Crook County 4-H Clover Club Building, 502 SE Lynn Blvd., Prineville, OR

Course Objectives: To build an understanding of the tools, concepts, and thought processes relative to livestock grazing in riparian areas so that participants will be able to work with other individuals, groups, and agencies to develop and implement successful grazing management strategies. Participants learn to develop riparian resource objectives and design grazing management strategies that are practical and foster sustainable conditions.

Target Audience: Livestock producers, agency personnel, and others who are involved with planning, managing, or evaluating riparian grazing systems.

For three-days, experts from the National Riparian Service Team and Oregon Riparian Team will lead this **free** training, both in classroom sessions paired with daily field workshops. Be prepared for the fieldwork by bringing appropriate boots and clothing.

- * Monday, June 29, on your own for lunch.
- * Tuesday, June 30, lunch supplied by Crook County SWCD.
- * Wednesday, July 1, bring a sack lunch.

Please RSVP to Jimmy Eisner/Prineville BLM (541) 416-6753 jeisner@blm.gov or Steve Gibson/Prineville USFS (541) 416-6573 sgibson@fs.fed.us.

* *Lunch*

Deficit Irrigation Effect on Forage Yield

Some farms will/may end up short of irrigation water this year. Producers may be faced with the decision to dry up some acres and fully irrigate some of the acres, or deficit-irrigate their grass or alfalfa fields throughout the growing season. It is important for both alfalfa and grass to have high non-structural carbohydrates in the plant and root system prior to going dormant due to drought, if possible. Those plants have a better chance of surviving drought. Some of our soils in our Central Oregon fields have a high percentage of sand and low percentage of clay with shallow depths.

Memory of the Central Oregon drought of the early 1990’s was that ‘Paiute’ Orchardgrass fared better than other Orchardgrass varieties following the drought (after irrigation water shut off in mid-season). Kentucky bluegrass and quackgrass, both sod-former grasses with extensive underground rhizome systems, survived. In the irrigated pastures it will be even more important this year NOT TO OVERGRAZE because of reducing the non-structural carbohydrates already discussed, but bare soil will be hotter which increases evapotranspiration than soil covered in a grass-legume canopy. Weeds will take more than their fair share of soil moisture as the desirable plants will be slower to recover and the weeds fill in open spaces and may out-compete the desirable pasture plants. Pasture quality will deteriorate with additional weeds and this will be more expensive to rehabilitate, once the drought is over. It will be important to more closely monitor pastures and hay fields as the drought continues to protect the desirable plants, the soil, the animals and the environment.

If inducing drought and dormancy to your fields, make sure you leave plenty of plant height after harvest (if you get a first cutting) once irrigation ceases. As the Orchardgrass plant tillers grow from 1st leaf to 5th leaf, the carbohydrate level in the plant decreases and it is not until it reaches 5th full leaf that carbohydrates are adequate in the crown, root and plant again. If you are drying up the field after a harvest, leave a minimum stubble height of 4 inches, 5-6 inches might even be better, and then you hope for no regrowth.

Work in Washington by Steve Fransen and Tip Hudson, both with SWU, found that with Timothy (a shallow rooted species) that producers were better off inducing drought in Timothy after first cutting, rather than dribbling small amounts of water on throughout the rest of the growing season. Following year first cutting yield was greatly enhanced in the drought induced fields compared to those fields that had been “severely” deficit irrigated during the rest of the drought induced growing season. It is acceptable to sacrifice second cutting in a drought year to maintain stands and productivity into the future. (Fransen, S. and T. Hudson. 2005 Timothy Hay. WSU Extension Bulletin EM 4919E, 3 pgs.)

The following table, from different studies, offers an indication of what kind of yield you might obtain through the use of deficit irrigation management on certain forage species. Depending upon irrigation applied, one would also cut back accordingly on N fertilizer. Apply adequate P, K, and S if soil test indicates a need as these will ensure the best growth of the crop this season, while reducing a problem like nitrate accumulation. Make sure you test the hay for nitrates!

	Percent of Full Irrigation (%)							
	40	50	60	69	70	81	98	100
Species	Percent of Yield (%)							
Alfalfa				60		71	89	100
Orchardgrass	17	40	64		88			100
Meadow brome	44	56	68		80			100
Tall fescue	23	44	66		87			100

Grass research done in Utah by Jensen et al, 2001, Jensen, et al., 2008, Asay et al., 2001; Fransen and Hudson, 2005.

Alfalfa research done by Robinson, et., al., 1994.

Other grass species response to deficit irrigation are posted on the OSU/Crook County Extension web site, <http://extension.oregonstate.edu/crook/irrigation> (Link).

[Crop Water Use Program \(to May 5, 2015\) \(pdf\)](#)

[Growing Degrees Update \(to May 1, 2015\) \(pdf\)](#)

[Nitrogen Needed to Produce Forage \(pdf\)](#)

Calendar

May

- 12 UC Davis Grains - Alfalfa/Forages Field Day, Davis, CA., [Information](#) (pdf) or (530) 752-8982.
- 16 [Oregon Sheep Growers Association New Adult Producer Mentor Program](#) (pdf), Pendleton, OR., John Fine (541) 673-0369. See article Page 2.
- 16 [Central Oregon Goat Association 14th Annual Goat Jamboree](#) (pdf), Bluestone Gardens & Landscape LLC., Powell Butte, OR. See article Page 2.
- 19 Central Oregon Forage Field Day Tour, Culver, Terrebonne, and Tumalo, OR., Mylen Bohle (541) 47-6228.
- 19 HAREC Grass Seed Field Day, Hermiston, OR., [Information](#) (Link).
- 20 [Multiple Generations Working Together](#) (Link), Presented by the Austin Family Business Program, Doubletree by Hilton, 300 NW Franklin Ave, Bend OR, 1-800-859-7609 or [Register Here!](#) (Link).
- 20 Wasco County Crop Hop, Hannah Kammeyer (541) 737-5870 or Hannah.kammeyer@oregonstate.edu. See article.
- 21 Sherman County Crop Hop, Hannah Kammeyer (541) 737-5870 or Hannah.kammeyer@oregonstate.edu. See article.
- 21 Woodland Management Methods in Blue Mountain Forests, Meacham, OR., Union County Extension Office (541) 963-1010. See article Page 2.
- 22 Gillam County Crop Tour, Hannah Kammeyer (541) 737-5870 or Hannah.kammeyer@oregonstate.edu. See article.
- 27 Wildfire Field Workshop, Prineville, OR., Génie MontBlanc at emb@cabnr.unr.edu, or (775) 784-1107, by Monday, May 18th. [Information](#) (Link). See article Page 2.
- 27 Hyslop Farm Field Day, Corvallis, OR., [Information](#) (Link).

June

- 3 Forage Field Tour, Culver, Terrebonne & Tumalo, OR., Mylen Bohle (541) 447-6228 or Mylen.bohle@oregonstate.edu. See article Page 3.
- 4 Pasture and Grazing Management Field Day, 5680 SW Quarry Road, Redmond, OR., Tammy Harty (541) 815-0203 or tammyharty@msn.com. See article Page 3.
- 8 HAREC Wheat Field Day, Hermiston, OR., [Information](#) (Link).
- 8 Pendleton-Ruggs Wheat Tour, Hannah Kammeyer (541) 737-5870 or Hannah.kammeyer@oregonstate.edu. See article.
- 9 Pendleton-CBARC Field Day, Hannah Kammeyer (541) 737-5870 or Hannah.kammeyer@oregonstate.edu. See article.
- 10 Moro-CBARC Field Day, Hannah Kammeyer (541) 737-5870 or Hannah.kammeyer@oregonstate.edu. See article.
- 11 Morrow County Crop Tour, Hannah Kammeyer (541) 737-5870 or Hannah.kammeyer@oregonstate.edu. See article.
- 15-17 [Society for Range Management Pacific Northwest Section](#) (pdf), Burns, OR., Jay Kerby (541) 573-8928. See article.
- 16 Pomeroy Wheat Tour, Hannah Kammeyer (541) 737-5870 or Hannah.kammeyer@oregonstate.edu. See article.
- 17-20 5th Annual High Desert Youth Range Camp, Northern Great Basin Experimental Range, near Burns, OR., Brenda Smith (541) 573-4084 or [Information](#) (Link). See article Back Page.
- 22-24 Youth Tractor Safety & Certification Course, Madras, OR., Jon Gandy (541) 475-3808. See article Page 3.
- 23 Union County Wheat Tour, Hannah Kammeyer (541) 737-5870 or Hannah.kammeyer@oregonstate.edu. See article.
- 24 HAREC Potato Field Day, Hermiston, OR., [Information](#) (Link).
- 24-26 The Whole Grain Summit, Portland, OR., wholegrainsummit2015.com (Link).
- 25 Malheur County/Parma, ID Wheat Tour, Hannah Kammeyer (541) 737-5870 or Hannah.kammeyer@oregonstate.edu. See article Back Page.
- 25-27 [Regards to Rural](#) (Link), Bend, OR. See article Page 3.
- 25-27 Oregon Cattlemen's Association Mid-Year Meeting, www.orcattle.com (Link).
- 29-July 1 [Grazing Management for Riparian-Wetland Areas Training Course](#) (Link), Prineville, OR., Jimmy Eisner (541) 416-6753. See article page 3.

July

- 6 Madras Wheat Field Day, Hannah Kammeyer (541) 737-5870 or Hannah.kammeyer@oregonstate.edu. See article.
- 18 [High Desert Garden Tour](#) (Link), Bend, OR., Amy Jo Detweiler (541) 548-6088.

September

- 15-18 Lost Rivers Grazing Academy, Salmon, ID., [Information](#) (Link).

Limited Irrigation and Rain this Year?

The “Drought” word is certainly creeping into more and more conversations as we head toward summer. We have put up some 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. We are all hoping for more precipitation, but just in case, this information hopefully will offer some help. Crook County Extension Service Website link, http://extension.oregonstate.edu/crook/sites/default/files/limited_irrigation_and_rain_this_year.

Online Pesticide Applicator Credit Classes Now Available

During this time of year Oregon growers are thinking about pesticide recertification credit. The Professional and Continuing Education (PACE) unit at Oregon State University offers online pesticide applicator courses. There are currently six one-hour courses that qualify for both Core and Other hours. These courses are accessible at: pace.oregonstate.edu/catalog/pesticide-applicator (Link). The cost for these one-hour courses is \$20 each. Online classes provide another option for the agricultural community to meet continuing education requirements when convenient or needed.

2015 Cereal Variety Field Days Throughout the Pacific Northwest, May 12, 2015 through July 6, 2015

For questions or to see a location near you, go to [Field Days](#) (pdf) or contact OSU’s Cereal Variety Outreach Coordinator, Hannah Kammeyer at (541) 737-5870 or Hannah.kammeyer@oregonstate.edu.

WANTED...High School Students in grade 9-12 for the 5th Annual High Desert Youth Range Camp, Wednesday - Saturday, June 17-20, 2015, Northern Great Basin Experimental Range, near Burns, OR

Learn about Sagebrush, Soils, Night Time Navigation, Plants of the High Desert, How Fire Affects the Land, Livestock Management on the Rangeland, and much, much, more! For more [Information](#) (Link), or call Brenda Smith at (541) 573-4084 or Brenda.smith@oregonstate.edu.

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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.

