



Oregon State University Extension Service

Central Oregon Agriculture

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OSU Hires University of Florida Grad to Help Cattle Ranchers

BURNS, Oregon – Oregon State University has hired a recently graduated animal scientist from the University of Florida to conduct research on beef cattle and help address ranchers' needs.

Reinaldo Cooke, who started in January, is based at OSU's Eastern Oregon Agricultural Research Center in Burns. His appointment means OSU now has two statewide Extension beef specialists. The other is David Bohnert, who is also based in Burns and whose research focuses on nutritional management strategies.

Cooke, who earned a doctorate in animal sciences in December, will spend his time conducting research and reaching out to producers and the public through OSU's Extension Service.

On the research end, Cooke plans to focus on management options to enhance the reproductive performance of beef cows and heifers. He plans to develop management strategies and feeding programs to speed up the arrival of puberty in heifers and increase pregnancy rates in cows. Additionally, he intends to study how low-stress handling by humans affects reproductive rates of female Hereford and Angus breeds. Research has shown that stress – at cow pens, for example – can cause female cattle not to become pregnant, Cooke said.

"If they're not used to the cow pens and how to get into the chute, they can get stressed, and that can decrease pregnancy rates," he said. "Just two hours in a cow pen can be really stressful and affect their reproductive performance months later."

So Cooke plans to get the animals used to human handling at an early age. He'll wean the calves at six or seven months of age, then take them to cow pens where humans can interact with them. At the University of Florida, he and other researchers tested this strategy on Brahman-Angus crossbreeds and found it worked, he said.

"At first, they were temperamental and excited and trying to jump out of the cow pens," he said. "Four weeks later they were calm and walking slow. The heifers that went through this acclimation process reached puberty sooner and had higher pregnancy rates than those that didn't."

He added that this method can be an inexpensive way to accelerate the onset of puberty and increase reproductive performance because it doesn't require the use of drugs or additional feeding.

Cooke also aims to improve the health of calves so they'll be ready for the feedlots. Typically, calves are weaned at about seven months of age and then sent to a feedlot to be fattened up. But if they're not managed well at the cow-calf ranch, they can get sick and don't gain the desired weight at the feed yard, he said. So Cooke wants to take pre-emptive action and evaluate how background strategies, such as vaccination, weaning and feeding programs, will improve the health and performance of these calves at the feedlot.

On the public outreach side, Cooke plans to develop a statewide beef program for the Extension Service that would include the following: educational workshops offered around the state; a report published every two years that would explain OSU's latest beef research in layman's terms; an online database of technical articles that can be easily accessed and understood by producers; a field day where producers can visit the research center in Burns; and in-service training for Extension agents so they can stay current on the latest developments in the beef industry.

Cooke grew up in a medium-sized town surrounded by large citrus and cattle operations in the state of São Paulo, Brazil. He earned a bachelor's degree in animal sciences from São Paulo State University in 2003. The following year, he enrolled in the University of Florida.

By: **Tiffany Woods** @ (541) 737-2940, tiffany.woods@oregonstate.edu

Source: **Reinaldo Cooke** @ (541) 573-4083, 352-262-4255, reinaldo.cooke@oregonstate.edu

"Central Oregon Agriculture" is a monthly newsletter produced by the Central Oregon Extension offices and the Central Oregon Agricultural Research Center. 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 Extension office listed below (**all area codes are 541**).

Central Oregon County Extension Offices:

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 475-3808, 34 SE D St., 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:

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

Powell Butte Site - Phone 447-5138, 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 Centers, Madras & Powell

Butte: <http://oregonstate.edu/dept/coarclindex.php>

Central Oregon Agricultural Extension Service Staff:

Rich Affeldt - Mint, Seed Crops and Weed Control, 475-3808

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Dana Martin - Small Acreage, 548-6088

Barbi Riggs - Livestock and Water Quality, 447-6228

Libby Rodgers - Ag. Program Assistant/Fire Prevention, 447-6228

Pam Wiederholt - Ag Newsletter Coordinator, 447-6228

The above individuals represent 7.75 full time equivalents 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, nor does it imply approval of the product to the exclusion of others.

Extension work is a cooperative program of Oregon State University, the U.S. Department of Agriculture, and Oregon counties. Oregon State University Extension Service offers educational programs, activities, and materials without discrimination based on age, color, disability, gender identity or expression, marital status, national origin, race, religion, sex, sexual identity or expression, marital status, national origin, race, religion, sex, sexual orientation, or veteran's status. Oregon State University Extension Service is an Equal Opportunity Employer.

OSU Extension programs will provide reasonable accommodation to persons with physical or mental disabilities. Contact Pam Wiederholt at (541) 447-6228 to request reasonable accommodation.

CERALS —

Wheat Marketing Meeting

The Oregon Wheat League will be holding a Wheat Marketing Meeting on Thursday, March 12th via polycom at the COARC, Madras site. The broadcast will begin at 8:00 am and run until 9:00 am. Speaker and topic details were unavailable at press time...

Those of you attending: I would like to work on updating some cereal enterprise budgets after the meeting – if you could bring your thoughts, expenses and other figures on your wheat operation and spend an hour or two extra after the meeting, it would be much appreciated. We need to update some old and create some new enterprise budgets on HRSW, HWSW, SWSW, SWWW, HRWW, etc.

Mylene Bohle

GENERAL AG —

Carbon Credit Trading Workshop

Have you learned a little about Carbon Credit Trading or Carbon Sequestration? Want to know if trading would work for your farm or land holdings? In the rapidly changing environment of Carbon Credits, it makes sense to get your information from reliable, experienced resources. This workshop will be an informative workshop explaining in detail the fundamentals of Carbon Credit Trading. How your current management practices can make you eligible, how to select the right Aggregator for your trade, and where to trade. Learn if and when the Federal Government will get involved; decide where to trade your credits; and, meet with other landowners that are currently trading their credits. This workshop is the first for this region and will bring together agricultural and forestry landowners seeking detailed information on Carbon Credit Trading in today's market. Landowners will take home materials from the seminar to keep for future reference.

Who: Agricultural/Forest Landowners.

Where: Best Western Conference Center, 615 Main Street, Orofino, ID 83544.

When: Tuesday, March 17, 2009, 9:00 a.m.—3:00 p.m.. Registration in advance for \$35 or \$45 at the door (*lunch included*).

RSVP: Clearwater SWCD, 12730 Highway 12, Suite C, Orofino, ID 83544, (208) 476-5313 x 100.

Oregon Wheat League Newsletter

LIVESTOCK —

Western Cattle Prices Are Discounted

West Coast ranchers have long suspected that buyers offer lower prices here than offered for similar cattle in the Midwest. The primary reason for this price discounting practice was also generally understood to be related to the Midwestern location of most feedlot, slaughter and packaging facilities. In essence, it is believed that ranchers in California and other western states are being required to pay for shipping calves to these facilities in the Midwest. The cost of that transportation is the basis for price discounts offered in Western markets compared to prices offered in markets located closer to the Midwestern meat processing industry. However, in the past it was difficult to calculate exactly how much of the price differences observed in Western versus Midwestern cattle sales were due to transport costs rather than other factors such as differences in the physical attributes of the animals and management practices.

Recent research conducted by the University of California focused on price differences in calf and yearling markets across western locations and was able to estimate average transport-based price discounts received by ranchers. The new analysis used a statistical process to get a current picture of the market value of transportation and other pricing factors.

The study analyzed eleven years of data to determine the market trends and price premiums for each identifiable price variable. Anonymous cattle sales from January of 1997 to December 2007 from Western Video Market were analyzed to determine changes and trends in management practices associated with the marketing and sale of steer calves at weaning (500 to 625 pounds) and yearling steers destined for the feedlot (750 to 925 pounds).

(Figure 1) The Western States were divided up into marketing regions



Table one provides the eleven year average (1997 to 2007) price discounts per hundred weight between different locations in the west as compared to prices received in the Midwest.

Table 1. Price discounts for weaned calves and yearlings varied from western U.S. regions compared to Nebraska.

Price discounts (\$/cwt) compared to Nebraska

<u>Location/Region</u>	<u>Weaned</u>	<u>Yearlings</u>
5 Coasts of Calif., Ore. and Wash.	-10.54	-6.61
55 Wash. and NE Ore.	-11.63	-6.72
10 Northern Calif.	-8.77	-7.28
15 Southern Calif.	-10.71	-8.29
20 W Ore., NW Nev., NE Calif.	-10.12	-7.45
25 E Calif., W Nev.	-10.86	-7.65
3 SE Ore., Idaho, Utah, E Nev.	-9.89	-7.12
Mont., Wyo., Colo.	-3.61	-1.89

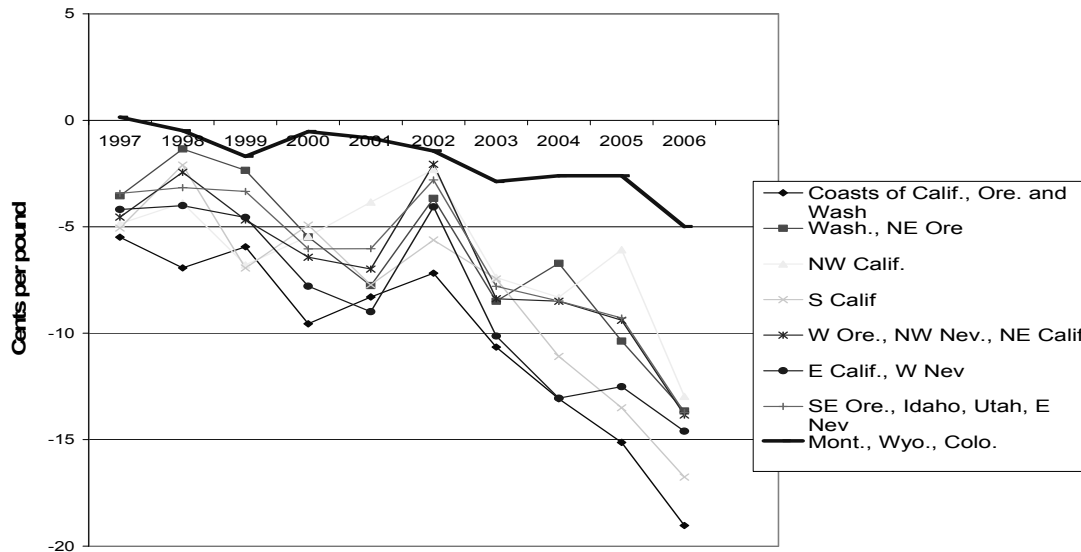
See LIVESTOCK: Western Cattle Prices, Page 4

LIVESTOCK: Western Cattle Prices

Continued from page 3

The results in Table 1 indicate that there is a discount that increases as we move west. Yearlings are discounted less than weaned calves. Discounts have increased over the years (Figure 1) for weaned calves, presumably due to increasing transportation costs.

Figure 2. Price discounts compared to Nebraska prices for calves from different locations in western U.S. have increased over time.



Producers in the West should consider these discounts for location in their marketing plans. Alternative marketing plans that seek to market cattle locally is one option to study. Some producers are participating with local feedlots/processors to address this discount. Others are marketing direct (finished cattle) locally to also capture more profit.

Glenn Nader, Steve Blank and Larry Forero

LIVESTOCK —

Our Livelihood At Stake! Farming and Ranching in 2009 & Beyond

March 16, 2009, 5:00 p.m. to 8:00 p.m. (hosted dinner provided), Meadowlakes Golf Course
300 Meadowlakes Drive, Prineville, Oregon

Guest Speakers:

- Barbi Riggs - OSU/Crook County Extension Agent
- Jim Sartwelle – American Farm Bureau, Livestock Specialist
- Barry Bushue – Oregon Farm Bureau, President

For meals, please RSVP by March 9th to (541) 447-6228.

Presented by Crook-Wheeler and Deschutes County Farm Bureaus.

Barbi Riggs

CROPS —

Seed Certification Crop Inspection Sign-Up

Deadline April 15, 2009

April 15 is the deadline for Seed Certification crop inspection sign up. Please remember to pay with a check and not cash. If you miss the deadline there is an additional fee to have a field inspected. You can now sign up a field through the Seed Certification website at <http://www.oscs.orst.edu/> or at your local Extension office.

Rich Affeldt

CEREALS —

2008 Spring Wheat Variety Results

The table below highlights the yield, test weight, and protein percentage for the spring wheat varieties tested at the COARC, Madras site in 2008. For a more complete set of data, which includes the experimental lines, go to <http://cropandsoil.oregonstate.edu/wheat/> and then click on Oregon Elite Yield Trials. Rhonda Simmons at the COARC manages the trials in cooperation with Jim Peterson and Mike Flowers on campus.

Table. 2008 Spring wheat variety trial data from COARC Madras, OR site.

Variety	Class	Yield (bu/ac)	Test Wt. (lb/bu)	Protein (%)
Cabernet	HRS	142.7	61.0	11.4
Lassik	HWS	137.8	61.2	11.9
Merrill	SWS	127.4	59.1	11.1
Blanca Grande	HWS	123.0	62.1	13.2
Alturas	SWS	121.6	60.7	10.5
Clear White	HWS	119.9	61.3	12.5
Hank	HRS	118.8	60.1	13.1
IDO377S	HWS	117.5	61.8	12.3
Alpowa	SWS	109.8	61.0	12.7
Nick	SWS	104.5	60.8	11.6
Jefferson	HRS	103.2	61.6	12.4
Patwin	HWS	101.4	58.3	13.7
Louise	SWS	99.5	58.3	11.4
Mean		114.4	60.3	12.1
LSD (0.05)		15.6	1.3	1.0
CV%		8.4	1.3	5.2

Only the named varieties are listed in this table from the trial.

Mylene Bohle

FORAGE —

A Message From The Central Oregon Hay Growers' Association

The Central Oregon Hay Growers Association is in the midst of their annual membership drive. Now more than ever, an increase in membership is needed. For the past couple of years, producer membership has not exceeded 30 members in the tri-county area. Census of Ag data indicates, that over 1200 farms in central Oregon raise hay or have irrigated pasture.

The COHGA board has 3 main goals they are working toward in 2009:

- \$500 Scholarship for a graduating senior in the tri-county area wanting to major in an Ag related field
- \$35 of each member's annual dues will go toward research (\$2,000 budgeted annually)
- Marketing your hay through the OHFA Website (COHGA is working on a pilot web site/hay for sale "information retrieval database system" that could be advertised and will allow updating).

The board consists of 5 producer members and 3 associate members. Several other producers have volunteered their time to be on the scholarship committee. There is still room for another producer board member (or two) from Jefferson County.

The forage research program at COARC utilizes this organization and there is a need for it to function at a higher level, which includes providing funds for some of the local forage research. The funding from the state for the OSU Ag Experiment Station has dwindled over the years and has finally caught up with COARC. Commodity groups have fund local crop research. The cost of doing research has more than doubled to tripled, since the last local trials were funded in 2003. That forage research was partially paid for by Seed and Ag Product companies.

See FORAGE: COHGA Membership, Page 6

FORAGE: COHGA Membership

Continued from page 5

The COHGA board believes that their present three goals are doable, but, only with much increased membership participation. The forage research program makes for a stronger Extension forage program. Research information is relevant to those who graze pastures, raise and sell or direct feed to livestock. Twenty-six members are paying their dues to help fund research that all producers in central Oregon obtain benefit from, whether directly or indirectly. Ask your fieldman that works with you, what they think — think research.

If you think there is a future in agriculture in helping a young person attend a trade school or college to become a future farmer or rancher, Vet Tech, Ag Mechanic, or Agronomist — think scholarship.

There is also the indirect marketing benefit with the Oregon Hay Directory and Web site. Recently, one hay “forecaster” predicted that 2009 alfalfa market hay would off \$100-\$120/ton from last year — think marketing.

With many members paying dues, we can accomplish so much more collectively. Our goal is to increase membership to 200! Membership applications are due this month for inclusion in the Oregon Hay Directory. For more details and to obtain an application, contact the COHGA at the OSU/Crook County Extension office, (541) 447-6228.

Greg Mohnen, President, COHGA

Alfalfa Nutrient Removal

Have you ever wondered: if you had to pay for the complete replacement of the minerals your alfalfa hay took off your farm, what would be the cost of replacement? Two alfalfa varieties, Vernal and 54Q25, were selected to represent a low yielding and high yielding variety to compare quality and nutrient content in a 3-cut and 4-cut management regime at Powell Butte and Madras.

The following table represents the average pounds of nutrients per ton of dry matter hay, which would have been exported off your fields, in this case, over a 4 year production cycle, and then the cost of replacing those minerals, if you had to replace all of it. Some of the differences are due to soil fertility at each site and the growth stage the crop was harvested at. The price of the different replacement fertilizer cost was determined in November, 2008.

Grateful Acknowledgement is given to the Crook County Government for partially funding this project.

Table. Average nutrient uptake (lb/ton DM hay) and cost of replacement* (\$/ton DM hay) for the average of Vernal and 54Q25 Alfalfa varieties, averaged, at COARC Powell Butte (3-cut) and Madras (4-cut) Oregon alfalfa variety trials conducted from 2004-2007.

Nutrient	3-Cut Alfalfa 4-Year Avg. Uptake (lb/ton DM Hay)	3-Cut Alfalfa Cost of Replacement (\$/ton DM Hay)*	4-Cut Alfalfa 4-Year Avg. Uptake (lb/ton DM Hay)	4-Cut Alfalfa Cost of Replacement (\$/ton DM Hay)*
P2O5	11.8	\$15.86	12.6	\$17.43
K2O	59.5	\$37.50	78.0	\$49.14
Ca	21.9	\$1.11	26.1	\$1.41
Mg	4.8	\$15.44	5.7	\$18.53
S	3.9	\$1.48	4.0	\$1.52
Mn	0.033	\$0.10	0.066	\$0.23
Cu	0.113	\$0.11	0.015	\$0.14
Bo	0.080	\$0.26	0.093	\$0.31
Zn	0.029	\$0.09	0.025	\$0.07
Fe	0.105	\$0.16	0.136	\$0.20
Mo	0.002	\$0.19	0.002	\$0.24
Cl ¹	0.25	\$0.24	0.25	\$0.24
Total \$	--	\$73.55	--	\$89.46

* = Prices based on November, 2008 values

¹ = book value (was not tested)

Nutrient analysis conducted at OSU Analytical Lab

Mylen Bohle

FORAGE —

Growing Degrees Update

The T-Sum (temperature summing) is calculated by summing the daily average between the daily maximum and minimum temperature in degrees F, and subtract 32 degrees (base temperature for T-Sum). If the average is less than 0, discard the number, if the number is positive, it is accumulated, from January 1st as a growing degree-day (GDD). One web site address you can track the thermal time is at: <http://pnwpest.org/wea>

Table 1. T-Sum dates for the present year(s) for 180, 360, 540, 720, and 900 accumulated T-Sum growing-degree days (GDD's) from January 1st for selected Oregon locations. (Fertilize at 360 gdd's for pasture, if you want earlier forage, and around 720 gdd's for grass hay.) (GDD's using 32 degrees base temperature as of March 2, 2009)

Location/Elevation	Year	180 GDD's	360 GDD's Fertilize Pasture	540 GDD's	720 GDD's Fertilize Grass Hay	900 GDD's
Madras	2008	Feb 16	Mar 10	Apr 6	Apr 25	May 6
(2440')	2009	Feb 6	257			
Prineville 4 NW	2008	Feb 23	Mar 14	Apr 14	May 3	May 14
(2840')	2009	Feb 3	335			
Redmond	2008	Feb 24	Mar 18	Apr 22	May 5	May 16
(3077')	2009	Feb 4	285			
Powell Butte	2008	Feb 20	Mar 10	Apr 13	May 2	May 14
(3180')	2009	Feb 3	333			
Bend (Agrimet)	2008	Feb 24	Mar 18	Apr 14	May 3	May 14
(3650')	2009	Feb 4	291			
Paulina (3688')	2008	Mar 18	Apr 22	May 6	May 16	May 24
	2009	Feb 25	219			
Christmas Valley	2008	Mar 12	Apr 24	May 8	May 17	May 27
(4360')	2009	Mar 1	200			
Fort Rock (raws)	2008	Mar 13	Apr 24	May 8	May 17	May 26
(4430')	2009	Feb 25	214			
Seneca (4665')	2008	Apr 30	May 7	May 17	May 27	Jun 11
	2009	69				



Growing Farms

Successful Whole Farm Management Workshop Series

This seven week course is designed to provide beginning specialty crop and livestock farmers with the tools and knowledge to manage the biological and financial risks of farming. Participants will assess their farm enterprise and gain the ability to develop a whole farm plan. This program targets farmers in their first five years of farm business. Please contact us to see if this class is appropriate for you.

A mix of OSU faculty, experienced farmers and other professionals will present curriculum and resources vital to a sustainable small specialty crop or livestock farm. The workshop series is sponsored by the OSU Extension Small Farms Program with funding from the USDA Risk Management Agency.

When: Six evening workshops and one full field day
 Wednesdays, April 8, 15, 22, 29; May 6 and 20: 5:00 pm to 9:00 pm.
 Saturday, May 16: 9:00 am to 5:00 pm

Where: Redmond, Oregon, and various locations

Cost: \$175 per person or \$300 per couple from same farm; 6 dinners and 1 lunch plus educational materials included.

The workshops address these six broad topics:



Dream It: Strategic Planning

Manage It: Farm Finance

Grow It: Production

Do It: Farm Operations

Sell It: Marketing Strategies

Keeping It: Managing Liability

Supported by
 The Risk Management
 Agency



Additional information about Growing Farms is available on the OSU Extension Small Farms website:

<http://smallfarms.oregonstate.edu> or by contacting Dana Martin at (541) 548-6088 x 7957 or dana.martin@oregonstate.edu. This course will be limited to 30 participants. All participants will receive confirmation of registration.

REGISTER NOW!

All registrations will be processed on-line at:

<http://smallfarms.oregonstate.edu/growing-farms-workshop-series> .

You will have the option to pay by credit card or check. If you do not have access to the internet, please contact Dana Martin at (541) 548-6088 x 7957. Due to the limited class size, you will receive a personal confirmation e-mail or call from Dana.

Dana Martin

FORAGE —

Hay Sampling Certification Exam

The purpose of the certification is to aid in standardizing hay testing protocols and to improve your understanding of the sampling and testing process. This is a learning opportunity, NOT just a test of knowledge. You can read the study materials and then take the exam on-line. The exam consists of 30 multiple choice questions that will focus on hay sampling methods, forage quality terms, and interpreting forage quality reports. All of the study materials are on-line to help you study. You have to answer all of the questions correctly to pass, but you can take it as many times as you like. The purpose is to serve as an instructional aid.

You can find this exam at <http://www.foragetesting.org> . It is a very educational exercise. (Edited from Hay Sampling Certification Exam by Dan Putnam and Steve Orloff, from the U. of California – Davis.)

Mylene Bohle

Living On A Few Acres



Saturday, March 14

**Check In: 8:30 a.m.; Classes: 9:00 a.m. to 4:30 p.m.
North Sister Building, Deschutes County Fairgrounds
Redmond, Oregon**

*For information call OSU Extension Service, (541) 548-6088 x 7957
email: dana.martin@oregonstate.edu
<http://extension.oregonstate.edu/deschutes>*

2009 LOAFA Conference Registration

(See Class Descriptions Pages 7 & 8)

Class Selection (list first 2 choices)

Session A: 1st: _____ 2nd: _____

Session B: 1st: _____ 2nd: _____

Lunch Program: Lunch provided by the Deschutes County Farm Bureau

Session C: 1st: _____ 2nd: _____

Session D: 1st: _____ 2nd: _____

Name: _____ Address: _____

City: _____ ZIP: _____ Phone: _____

Email: _____

Please include payment (Make checks payable to Deschutes County Extension/4-H)

_____ ***\$35.00 per person or _____ \$60.00 for two (Include 2 registration forms for separate class requests) Early bird registration due by March 9.***

_____ ***\$50 per person for late registration Late registration March 10 and after.***

_____ ***Additional lab fees for classes A5 & C5 (\$20 each)***

Mail Registrations To:

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

Oregon State | Extension
UNIVERSITY | Service

Central Oregon Agriculture Calendar

March

- 12 Wheat Marketing Meeting Via Polycom, Madras, OR (see article page 2).
- 14 Living On A Few Acres, Redmond, OR (see article page 9).
- 16 Our Livelihood At Stake!, Prineville, OR (see article page 4).
- 17 Carbon Credit Trading Workshop, Orofino, ID (see article page 2).
- 28 High Desert Wool Growers 12th Annual Fiber Market Day, 10:00 a.m. - 4:00 p.m. Crook County Fairgrounds, Prineville, OR. There will be demonstrations, vendors, livestock, food and more. For further information: <http://www.highdesertwoolgrowers.com>

April

- 4 Grape Pruning Workshop (and other topics), CO Grape Growers & Vintners' Assoc., Time & Location TBA. RSVP to (541) 447-6228.
- 7-8 Oregon Dairy Industries Conference. Salem Conference Center and Phoenix Grand Hotel, Salem, OR.
- 8, 15, 22, 29 Growing Farms/Successful Whole Farm Management Workshop Series, Redmond, OR (see article page 8).
- 15 Seed Certification Crop Inspection Deadline (see article page 4).
- 9 Wheat Marketing Meeting Via Polycom. COARC, Madras, OR (541) 475-710.

May

- 6, 20 Growing Farms/Successful Whole Farm Management Workshop Series, Redmond, OR (see article page 8)

Central Oregon Agriculture

