



Oregon State University Extension Service

Central Oregon Agriculture

Volume 19 Issue 1

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Save Water - Save Energy Irrigation Seminar

With the increasing costs of energy, energy efficiency is becoming increasingly important in irrigated agriculture. Additionally, some of the same things that can reduce energy efficiency can also reduce crop yields. Consequently, steps taken to increase irrigation energy efficiency can improve farm profitability by reducing operating costs and increasing gross revenues.

The meeting will present an engineering perspective on energy use in Oregon irrigated agriculture. We will look at specific actions irrigators can take to maximize the efficiency of their irrigation energy use. Strategies for irrigation system selection and design, pump selection, system maintenance and irrigation management will be considered. The presentation will focus on the bottom line- how net farm incomes can be affected in dollars and cents. Detailed examples will analyze the potential costs and increased farm profitability of a number of specific, on farm opportunities for energy conservation. A limited discussion of incentive programs will also be part of the program.

This Save Water – Save Energy Workshop will be held on Wednesday, February 10th at the Redmond Grange, 707 SW Kalama St., Redmond. Registration starts at 10:30 and the workshop will start at 11:00 and will run until 1:00 pm. Lunch and Save Water – Save Energy Bulletin will be provided. Cost is \$25. The presentation will be made by Marshall English, OSU Extension Irrigation Specialist, retired.

RSVP to OSU Crook County Extension Service in Prineville at 541-447-6228, by Monday, February 8, 2010.

Mylen Bohle

Core Pesticide Training Session

An educational program for Core pesticide credits will be conducted by OSU Extension on Thursday, February 18 in the Maccie Conroy Facility at the Jefferson County Fairgrounds, 430 SW Fairgrounds Road in Madras. Licensed private pesticide applicators are required to obtain 4 core credits of the 16 that are required for recertification. The training will be held from 8:30 AM to 12:00 Noon. The registration fee for the training is \$20.00 per person. For more information or to register contact OSU Extension, Jefferson County, 34 SE D St., Madras, OR 97741, or call (541) 475-3808.

Rich Affeldt

Wine Grape Association of Central Oregon

The Wine Grape Association of Central Oregon (WGACO) will be holding a board meeting to go over their new by laws and doing some planning for educational and field day events for the coming year. If anyone is interested in being notified of their future meetings and events, contact Mylen at 541-447-6228.

Mylen Bohle

"Central Oregon Agriculture" is a bi-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 Center:

<http://oregonstate.edu/dept/coar/index.php>

Central Oregon Agricultural Extension Service Staff:

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Amy Detweiler - Horticulture, 548-6088

Steve Fitzgerald - Forestry, 548-6088

Dana Martin - Small Acreage, 548-6088

Barbi Riggs - Livestock and Water Quality, 447-6228

Pam Wiederholt - Ag Newsletter Coordinator, 447-6228

Bo Ming Wu—Plant Pathology, 475-7107

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.

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Grass Based Health: Turning the Food Pyramid Upside Down (COHGA Banquet)

The Central Oregon Hay Growers' Association annual banquet will be held on Saturday, February 13, at the Meadow Lakes Golf Course in Pireville. \$25 is the cost for the evening with dinner (which includes dessert & gratuity), a chance to visit, and a very, very interesting presentation.

Agenda:

5:30 pm No Host Social Hour

6:30 pm Tri-Tip Dinner

7:30 pm *"Grass Based Health: Turning the Food Pyramid Upside Down"* – Peter Ballerstedt

8:30 pm Adjourn

Conventional wisdom, when it comes to human nutrition, tells us that we should be eating a low-fat diet, with restricted consumption of red meat. This advice became the official recommendation of the United States government in the late 1970's. Peter Ballerstedt will introduce evidence that the "fat-is-bad" hypothesis was wrong, and the impact the growing awareness of this can have on animal agriculture in Oregon.

Peter Ballerstedt has an extensive background in forage production, utilization, and forage-based livestock production systems. He was the Extension forage specialist at Oregon State University from 1986 until 1992. His recent personal experiences led him to study human diet and health. What he's learned doesn't agree with advice we've been given for the past 30 years or more. This new understanding, combined with his forage background, has given him an interest in local, sustainable food production systems. His knowledge, enthusiasm, and speaking style will provide an entertaining and informative presentation.

RSVP to John Lang at 541-923-2849 by February 2nd.

Mylene Bohle & Greg Mohnen, Pres. COHGA

6th Annual Cattleman's Workshop Opportunities in a Changing Beef Industry

This is a terrific opportunity to attend an outstanding day with cattle producers from around the state and listen to some of the movers-and-shakers of the beef industry. This year's event will be at the Blue Mountain Conference Center in LaGrande on January 23, 2010. It will begin at 9:00 am and we will wrap up around 5:00 pm. Speakers include Dr. Tom Field and Forrest Roberts, NCBA; Phil Seng of the US Meat Export Federation; Dr. Bernie Rollin, Colorado State University, and Dr. Dave Daley, California State University. The event is free to all and includes lunch!

Barbi Riggs

Seed Production of Native Grasses and Forbs Workshop

This workshop is for seed growers producing new revegetation species for the Interior West. Topics will emphasize cultural practices for native grasses and forbs entering the commercial market and future agency needs. The workshop will be held on February 23, from 8:30 am to 4:30 pm in Ontario, Oregon. For more information on the meeting agenda, go to <http://www.fs.fed.us/rm/boise/research/shrub/links.shtml>, or email Erin Denney at edenny@fs.fed.us.

Berta Youtie, Coordinator, Crooked River Weed Mgmt. Area

Central Oregon Forage Seminar Central Oregon Hay Growers' Association Annual Meeting

There will be a Central Oregon Forage Seminar held on Friday, January 22 (& 23), 2010 at the 4-H Clover Club Building at 502 SE Lynn Blvd. in Prineville (next to Crook County Extension Office).

January 22

- 8:20 am Registration (\$15), Coffee and Donuts
8:55 am Welcome
9:00 am Roundup Ready Alfalfa Comment Period Discussion – Bring Your Questions
Brian Ganyo, WL / Forage Genetics, Sacramento, CA
9:30 am Oregon State University Ag Experiment Station, Extension Service, Teaching Program, and Forage/ Livestock Research Endowment Update
Russ Karow, Dept Head, Crop & Soil Science Dept, Corvallis
10:00 am Forage Weed & Pest Control Panel Discussion**
Mike Knepp, Wilbur Ellis Co., Madras
Rod Fessler, CHS, Madras
Scott Simmons Round Butte Seed Growers, Prineville
11:00 am Fertilizer Industry Update
Don Horneck, OSU Extension Agronomist, Hermiston
11:30am Internet Marketing
John Lang, COHGA Secretary
Noon Lunch (hosted by Area Agribusinesses)
COHGA Business Meeting
Greg Mohnen, President
1:15 pm Forages, Fertilizers and Soil Fertility – Bring Your Questions
Don Horneck, OSU Extension Agronomist, Hermiston
1:45 pm Cereal Leaf Beetle and Bio-control Update**
Barry Bai, Entomologist, ODA, Salem
2:15 pm Hay Market Report
Lance Cline, USDA Market News, Moses Lake, WA
2:30 pm ODA Updates: New Label Language**
Laurie Gordon, ODA, Bend
3:00 pm Break (hosted by Area Agribusinesses)
3:15 pm Repackaging Big Bales & Marketing Your Product
Stan Steffen, Steffen Hay, Inc., Silverton
3:45 pm Yield, Quality, and Nutrient Comparison of Orchard grass vs. Kentucky bluegrass
Mylon Bohle, OSU Area Extension Agronomist, Prineville
4:15 pm Adjourn
**There will be 2 pesticide Recert Credits Available

Saturday, January 23rd Dean Pettyjohn Farm,
11288 SW Hwy 126, Powell Butte
(1.5 miles east of Powell Butte Store and School. South of Hwy)

10:00 am-Noon Big Bale Repackaging Demonstration
Stan Steffen, Steffen Hay, Silverton, OR

Sponsored by: Central Oregon Hay Growers' Association, Oregon State University Extension Service (Crook, Deschutes, Jefferson Counties and Warm Springs Reservation), and Central Oregon Ag Research Center.
Contact Person: Mylen Bohle, OSU Crook County Extension Service at 541-447-6228.

Mylon Bohle

Northwest Direct Seed Cropping Conference

The 13th annual Northwest Direct Seed Cropping Conference theme to be held January 20 & 21 at the Three Rivers Convention Center, Kennewick, Washington. The U.N. has challenged the agriculture industry to double food production by 2050; in anticipation of meeting the nutritional requirements of an anticipated 9.5 billion people. Late registration fee is now in effect. Information is available at <http://www.directseed.org/> or contact: (208) 883-3645 or email to PNDSA@directseed.org.

Mylon Bohle

Wheat Marketing Meetings

There are Wheat Marketing Meetings held on the 2nd Thursday of each month until May. The meetings are broadcast over polycom at the Central Oregon Ag Research Center at Madras. The meetings start at 8:00 pm and run until 9:00 am. These meetings will be held on January 14, February 11, March 11, April 8, and May 13, 2010. Mark those dates on your calendar and plan on attending if you are interested in raising and marketing wheat. The Oregon Wheat League and the OSU Extension Service is sponsoring the program. Please call the COARC (541-475-7107) the day before to make sure the meeting is happening (sometimes the meeting date can get moved). Contact Mylen at 541-447-6228 if you would like to be added to an email list for notification reminders.

Mylon Bohle

2009 Winter & Spring Wheat Trial Results

The winter wheat trial results were just posted recently to the OSU Cereal Breeding web site. For complete data information on the 2009 wheat trial results including plant heights, lodging, heading dates, protein and test weight, or other wheat classes and trial locations, go to: <http://cropandsoil.oregonstate.edu/wheat/>, or call Mylen at 541-447-6228 for a hard copy.

Mylon Bohle

Landowner Workshops

A series of Landowner workshops are being sponsored by the Deschutes Soil and Water Conservation District. These 4 separate workshop topics will be rotated on the 1st Tuesday of each month. The workshops will be held at the Redmond Service Center at 625 SE Salmon Avenue. Please contact Debbe at 541-923-2204 to RSVP. Attend 1 or attend the Series of 4. Choose the dates that work best for your schedule! Each workshop will run from 2:00 pm—4:30 pm.

February 2, 2010

Pasture/Manure/Weeds

March 2, 2010

Irrigation Water Management/
Water Leasing/Water Rights

April 6, 2010

Urban Interface/Wildfire/Private
Forest Lands/Wildlife

May 4, 2010

Cost Share Assistance Programs
For Landowners

June 1, 2010

Pasture/Manure/Weeds
Debbe Chandwick, DSWCD

Central Oregon Farm Fair and Trade Show

The 30th Annual Central Oregon Farm Fair and Trade Show to be held February 3 and 4 at the Jefferson County Fairgrounds. The agenda for the educational program is posted at <http://extension.oregonstate.edu/jefferson/>. Lunch will be provided both days by CHS and other sponsors, and of course there will be free refreshments. There are 2 hours of pesticide recertification credits anticipated for February 4. The Central Oregon Farm Fair and Trade Show is a fun social event and a great opportunity to get updated on issues affecting agriculture. The event is sponsored by the Jefferson County Seed Growers, Central Oregon Peppermint Growers, and Oregon State University Extension.

Wednesday, February 3

9:00	Jefferson County SWCD Annual Report	Jan Roofener, Jefferson County SWCD
9:15	How Seeds Develop	Hiro Nonagaki, OSU
10:00	Bee Colony Health	Ramesh Sagili, OSU
10:30	NUID Report, Future Projects, and Basin Water Outlook	Mike Britton, NUID and Jeremy Giffin, OWRD
11:00	Sustainable Support for COARC	Marv Butler, OSU
11:30	Jefferson County Seed Growers Assoc. Mtg	Kip Light, Mike Weber, Kristi Fisher
12:00	LUNCH	Sponsored
1:30	*Teff Hay Production	Rich Roseburg, OSU
2:00	*Organic Hay Production	Mysten Bohle, OSU
2:30	*Yellow Nutsedge	Joel Felix, OSU
3:00	*Risks for GMO Contamination of non-GMO Crops	Carol Mallory-Smith, OSU
3:30	*Looming Changes for Lorsban and Other Important Insecticide Labels	Laurie Gordon, ODA
4:15	Adjourn	

Thursday, February 4

9:00	Carbon Credits for Ag	Jay Castino, First Record Carbon
9:30	Save Water, Save Energy	Central Electric Cooperative
10:00	Renewable Energy and Energy Efficiency	Stephanie Page, ODA
10:30	Local Factors Influencing Renewable Energy Projects	Phil Chang, COIC
11:00	Open Forum with Energy Experts	
11:30	CO Mint Growers Assoc Mtg	Jim Cloud
12:00	LUNCH	Sponsored by CHS
1:30	Wheat Marketing	Dan Steiner, PGG
2:30	Update on Xanthomonas in Carrot	Bo-Ming Wu, OSU
2:45	Kentucky Bluegrass Variety, Beacon and Palisade Report	Rich Affeldt and Marv Butler, OSU
3:30	Adjourn	*Recertification credit applied for

Rich Affeldt

Oregon State University Beef Cattle Website NEW!

<http://beefcattle.ans.oregonstate.edu/index.htm>

This website is maintained by OSU - animal, range, and forage sciences Extension personnel with the purpose of providing up-to-date information to the beef industry in Oregon and throughout the country. In this website you can find details and contact information for all the OSU livestock/range/forage Extension agents and specialists, location and details about OSU research facilities, current and upcoming extension events, and extension and research publications such as the new Beef Cattle Library, Beef Research Report, Cow-Calf Management Guide, and the Calving School Handbook.

Barbi Riggs

New Opportunities for Cull Bulls

Central Oregon Livestock Auction now has a new marketing outlet for cull bulls. They have established a relationship with Laura's Lean Beef that will give rancher's an opportunity to receive premiums for butcher bulls. There are two levels of qualification for this program. The first level of qualification is that on the date of sale, the bull had not received antibiotics or hormones for at least 90 days. The second level of qualification is a bull that had not received antibiotics or hormones ever. Ranchers will be asked to provide documentation to support their claims. Most of our area bulls are reared in this manner and should easily qualify for the program. When you buy your bulls this spring ask the breeders for documentation stating their bulls are natural. This will allow for increased premiums when the bull is no longer used for breeding. For more information contact Central Oregon Livestock Auction <http://www.centraloregonlivestockauction.com/> or call Trent at (541)475-3851.

Barbi Riggs

Roundup Ready Alfalfa Comment Period

Time to make your voice heard! Here is an issue of critical importance to all alfalfa and forage growers and industry members.
ISSUE: PLEASE COMMENT ON ROUNDUP READY ALFALFA – BEGINNING DECEMBER 18, 2009 – FEBRUARY 16, 2010.

The long-awaited decision on the de-regulation of glyphosate-tolerant (GT) alfalfa (Roundup Ready or RR Alfalfa) has been made. USDA-APHIS, which regulates biotechnology traits, has completed a Draft Environmental impact Statement (EIS) and posted this on its website. This was required by a legal decision in March of 2007 due to a lawsuit brought by Center for Food Safety.

Their decision: “APHIS has made a preliminary determination that action should be taken, and that action will be to grant nonregulated status to GT alfalfa lines J101 and J163, in whole. The introduction of these GT alfalfa lines has no significant impact on the environment. These GT alfalfa plants, lines J101 and J163, are not plant pests and are unlikely to pose plant pest risks.”

It is time for you to weigh in, and provide comments to APHIS on their preliminary decision – should they be supported in this decision to allow commercialization of this trait (non-regulation) or should it continue to be regulated (not allow commercialization)? Have they addressed the important issues associated with this technology?

There are a range of issues associated with this, but primarily it comes down to:

- The claim that this trait cause excessive gene-flow to organic or conventional alfalfa fields which will prevent organic or conventional growers from farming as they wish, and lead to eventual contamination of all alfalfa fields.
- The claim that the introduction of this trait cause much larger development of roundup-resistant weeds which will have an impact on the environment.

These were the two most critical issues in the lawsuit, and the important issues that APHIS needed to address, along with market impacts. Those who disagree with these claims argue that

- Gene flow is primarily an issue with seed production (<1% of the acreage), and can be (and is) managed with isolation requirements in seed production. In hay crops, gene flow is largely prevented, since hay is mostly harvested before significant bloom. Techniques such as managing feral alfalfa and testing products using a simple test strip can assure customers of the non-GE status of hay or seed.
- Weed resistance to herbicides is an old problem with agriculture, and not unique to RR alfalfa and can be managed through diverse weed management strategies that have been developed over many years by weed scientists. If it occurs it will primarily have an impact on the effectiveness of Roundup, not the environment.

UC and other universities have detailed publications on both of these issues, on gene flow and on weed resistance, see below link. APHIS has extensive documentation of their study of these issues, plus related market issues in the EIS statement. Please see their website below. The EIS alone is 1476 pages long, with documentation, but the critical issues can be easily found.

Keep in mind that this decision will impact the use of all genetically-engineered crops in general for alfalfa in the future (not just RR alfalfa), and perhaps for other crops as well. Time to make your voice heard.

You may review the APHIS documents by starting here:
<http://www.aphis.usda.gov/biotechnology/alfalfa.shtml>

Several University of California Documents related to biotechnology, coexistence of alfalfa types, and weed resistance can be seen at:

<http://alfalfa.ucdavis.edu/+producing/index.aspx?cat=Biotechnology%20and%20Roundup%20Ready%20Alfalfa>

The National Alfalfa & Forage Alliance documents on coexistence and seed stewardship, which came out of workshops over the past 3 years are at:

<http://www.alfalfa.org/CSCoexistenceDocs.html>

To Submit Comments to USDA-APHIS go to:
<http://www.regulations.gov/search/Regs/home.html#submitComment?R=0900006480a6b7a1>

To see a longer listing of previous comments (2008), which includes the recent entries, see:

<http://www.regulations.gov/search/Regs/home.html#docketDetail?R=APHIS-2007-0044>

Daniel H. Putnam,, Extension Forage Extension Agronomist & Ag Program Leader

Multi-Peril Crop Insurance Program

The Risk Management Agency reminds producers of winter and spring sales closing dates for the Multiple Peril Crop Insurance programs and the Adjusted Gross Revenue Pilot, and the Adjusted Gross Revenue-Lite programs available across the PNW which cover most farm-raised crops, animals and animal products. AGR and AGR-Lite are based on a producer’s five-year historical tax form information and an annual farm report to provide a level of guaranteed revenue for the insurance period. USDA will pay a portion of the premium.

Producers should contact a local crop insurance agent to learn additional program details. If there is no coverage in your county for a specific crop under the traditional MPCPI program, please ask your agent whether you would be eligible for coverage under a written agreement. A list of crop (and livestock) insurance agents is available at all USDA Service Centers or at the web site: <http://www3.rma.usda.gov/tools/agents/>.

*Jo Lynne Seuffer, Risk Mgmt. Specialist, USDA
 1-800-205-9953*

2010 Living on a Few Acres (LOAFA Conference)

Saturday, March 20; 9:00am to 4:30pm
Deschutes County Fairgrounds, Redmond, OR
Registration forms available February 12

LOAFA was developed by the OSU Extension Service in Central Oregon to provide educational workshops that focus on the needs of those living on small acreages.

This event will include featured speakers and classes covering a variety of topics such as: cooperative community supported agricultural programs, first aid for livestock, urban poultry production, irrigation and pasture management, growing crops in Central Oregon, wildlife habitats and more. A tractor safety training and driving class will also be featured.

A trade show will bring together equipment dealers, trade association representatives and people from agricultural agencies who can help you with your financial, operational and management needs. Don't miss this opportunity to learn and network with other land owners.

For more information contact:
OSU Extension Service, Deschutes County, 541-548-6088,
Ext. 7957 or email dana.martin@oregonstate.edu

Dana Martin

Oregon Small Farm News – new issue online

Check out the new issue of Oregon Small Farm News:
<http://smallfarms.oregonstate.edu/>

This issue includes many informative articles that may be helpful to you.

Dana Martin

Growing Farms— Successful Whole Farm Management Workshop Series

The OSU Oregon Small Farms team is collaborating with partners to offer the Growing Farm: Successful Whole Farm Management series in 2010. Growing Farms was launched in 2009 in four regions of Oregon, where 105 farmers benefited from the series.

This course is designed to provide beginning specialty crop and livestock farmers with the tools and knowledge to manage both the biological and financial risks of farming. Participants will assess their farm enterprise and gain the ability to develop a whole farm plan.

The workshops address these six broad topics:

- Dream It: Strategic Planning
- Do It: Farm Operations
- Manage It: Farm Finance
- Sell It: Marketing Strategies
- Grow It: Production
- Keeping It: Managing Liability

Dates: Tuesday evenings, 5-9pm, March 23 through April 27, plus one Saturday (TBA)

Location: Deschutes County Extension office, Redmond, OR
Cost: \$200/person, \$350/couple from the same farm. This includes the resource binder, workbook and a light meal.

Online registration:

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

This class is not for everyone. In order to create relevant and useful programming, a target audience was determined. The target audience is for those who are seriously pursuing production farming or diversifying/ scaling up their current farming operation. If you have any question regarding this class please contact me at OSU Extension Service, Deschutes County, 541-548-6088, x7957, or email: dana.martin@oregonstate.edu

Dana Martin

Central Oregon Community/Agricultural Food Assessment

You will soon receive an **Agricultural Producer Survey** in the mail and we would really appreciate your participation. This Central Oregon Community Food Assessment is the first step in strategic, long-term planning for food systems in Central Oregon.

As farmers and ranchers, you are an important link in this survey. By learning more about what is being produced, as well as the challenges and issues affecting you, we will be better able to help. The survey is divided into sections of Basic Information, Production, Barriers and Opportunities, Marketing, Farmer's Markets and the State of Agriculture in Central Oregon. Please participate in this important effort.

This survey was produced in coordination with Wy'East Resource Conservation and Development, Oregon State University Extension Service, Central Oregon Intergovernmental Council and NeighborImpact. If you have any questions regarding this survey, please contact Dana Martin; dana.martin@oregonstate.edu 541-548-6088 ext. 7957

Dana Martin

Central Oregon Food Network

The mission of the Central Oregon Food Network is to connect agricultural producers with their community. Our vision is to build a local food economy with a central place for the exchange of information about agricultural products, events, and businesses that support local food production and consumption. This includes discussion threads for producers to exchange information about crops, experiments, resources, production, distribution and processing.

We've been talking about this interactive website for awhile and it is progressing nicely. And if you check the box provided on the Central Oregon Community Food Assessment survey (see above), your basic information, product list and market sites will automatically be added to this Central Oregon Food Network online producer directory. This will help you spread the word about your farm and what your produce.

You are invited to celebrate the completion of the Central Oregon Food Network Website on Saturday, June 5, noon to 5pm, at the Environmental Center in Bend. Join us for a local food potluck, music and an opportunity to share your products and services. For more information, contact Sarahlee Lawrence at sarahlee.lawrence@gmail.com.

The Central Oregon Food Network Website is supported through a Sustainable Agriculture Research and Education (SARE) grant in partnership with the OSU Extension Service and Central Oregon Intergovernmental Council.

Dana Martin

10th Annual Small Farms Conference

The 10th annual Extension Small Farms Conference will be held on Saturday, February 27, 2010, from 9:00 AM to 5:00 PM. The one-day conference will be held on the Corvallis campus of Oregon State University at the LaSells Stewart Center. The keynote speaker, author **Mas Masumoto** [*Epitaph for a Peach, Four Seasons in Five Senses, and his latest Wisdom of the Last Farmer*], will speak on *It's About the Flavors of Life: Why We Farmers Work So Hard*. Masumoto is a third generation farmer working with his family on their 80-acre organic farm near Fresno, CA. **Kurt Schrader**, representing Oregon's 5th Congressional District, is the invited capnote speaker. Find registration materials on-line at: <http://smallfarms.oregonstate.edu/> or call the Benton County Extension Office at 541-766-3556 or toll free at 1-800-365-0201.

The conference includes 14 concurrent sessions, covering a range of topics of interest to growers who market their production directly to the public, for farmers' markets managers and board members, and for community food advocates.

- Funding Successful Energy Improvement Projects
- Enroll for the Fresh and Frozen Fruit and Veggie Voucher Program
- Agri-Tourism as a Value-Added Enterprise on Your Farm
- Creating Successful Farm Internships
- Cover Crops for Soil Fertility and the Bottom Line
- Small Scale Grain Production
- Alternative Poultry Feeds Part II
- Alternative Meat Marketing Strategies
- New Tools for Marketing Your Products
- The Business of Farmers Markets
- It's a SNAP! : Establishing EBT, SNAP, Debit and Credit Transfers for Farmers' Markets
- Farmers' Market - Public Health Partnerships: Solutions for Healthy Eating
- Farmers as Writers

Pre-registration is \$35 or \$60 for two registering together through February 16, 2010, and includes lunch; \$40 after 2/16; and \$45 at the door. This event is sponsored by the Extension Small Farms Program at Oregon State University; Oregon Department of Human Services WIC Program; Western Sustainable Agriculture Research and Education.

Dana Martin

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.)

Mylen Bohle

Central Oregon Pest Management Course

The Central Oregon Pest Management Course will be held on Friday, February 5th in at the Deschutes County Fairgrounds Expo Center, South Sister, OR, 3800 SE Airport Way, Redmond.

- | | |
|------|---|
| 0715 | Registration |
| 0800 | Varmint IPM: Identification and Management Strategies for Voles, Pocket Gophers, Ground Squirrels and Non-migratory Birds
Jay Paxson, City of Elko, Nevada,
Environmental Coordinator |
| 900 | Aquatic Weed Management
Mark Sytsma, Portland State University |
| 945 | ODA Update: Violations, Lessons Learned and Regulation Changes
Laurie Gordon, ODA |
| 1030 | Break |
| 1045 | Forward to the Past: New Back to Basics
Laurie Gordon, Oregon Department of Agriculture |
| 1130 | IPM for Weeds in Deschutes County Restoration Program
Dan Sherwin, Vegetation Manager, Deschutes County |
| 1200 | Lunch (<i>included in registration</i>)
<i>The Central Oregon Tri-County Weed Wagon will be on site from noon to 1 pm.</i> |
| 1300 | Washington State Department of Transportation's Research on Alternative Pavement Edge Maintenance Strategies
James R. Morin, Roadside Vegetation Maintenance Program Manager, Washington State DOT |
| 1345 | Update on the Biological Control of Weeds in Oregon
Dave Langland, ODA Noxious Weed Control |
| 1430 | Break |
| 1445 | Pesticide Storage: Keep it Safe
Leilani Monson, RN, Senior Health Compliance Officer, OR-OSHA |
| 1530 | Pesticides in Water and Fish Toxicity
Jeff Jenkins, OSU
Environmental and Molecular Toxicology |
| 1615 | Managing Turf Pests
Mike Duarte, Bend Parks and Recreation,
Landscape Manager |
| 1700 | Adjourn |

Pest Management Course Registration is \$65 (after Jan. 29 - \$75). We have applied for 8 pest recertification credits for Oregon and Washington. Mail registration information (name, business name, address, phone number, email, etc) and payment (*payable to: OSU C.O. Pest Mgmt Course*) to Linda Parks, IPPC/OSU, 2040 Cordley Hall, Corvallis, OR 97331-2915, or call (541) 737-6279.

Tim Stock & Mylen Bohle

Green Industry Conference

The 18th Annual High Desert Green Industry Conference will be held on February 10th and 11th at the Deschutes County Fairgrounds in Redmond. Go to the Deschutes County website for conference information and registration forms. <http://extension.oregonstat.edu/hdgi/home>, or call 541-548-6088.

Amy Jo Detweiler

Fertilizing Wheat

Spring wheat planting is only a couple of months off. Fertilizer applications needed for both winter and spring wheat are fast approaching as well.

Research, on-farm, and on-station at the COARC, has shown that hard red spring wheat (HRSW) nitrogen needs are a minimum of about 320 lb of N per acre (soil N + fertilizer N) depending upon yield goal and potential. Soft white spring wheat nitrogen needs are just a little more than half of that amount. In general, HRSW takes 2.8-3.0 lb of N to produce a bushel with 14% protein. Soft white spring wheat yield probably tops out at 1.5lb of N per bushel, or thereabouts. With soft white wheat, low protein is the product sought after.

With on-station variety trial research over the years, the winter wheat/triticale grain trials have been managed for 200 lb of N per acre and spring soft white wheat/triticale trials have been managed for 160-180 lb of N per acre (soil N + applied N), for optimum yield (not optimum protein for HRSW) and also if greater than those rates of N were applied, we found that lodging increased. Over the years, producers and fieldmen, most probably will find that each field has its own yield potential, and needs to be managed accordingly.

Local research in Central Oregon has also shown that nitrogen fertilizer needs to be applied by 1st visible node (jointing). If application is made after that, your yield potential will decrease. HRSW needs 70 percent of the nitrogen requirement to be applied at planting, with the rest (30 percent) applied no later than boot stage. It is/may also be good insurance to apply 20-40 lbs. N per acre around heading. Nitrogen applied at this late growth stage increases protein only.

Table. Nitrogen rate response of six HRSW and one SWSW varieties at the COARC Madras, Oregon in 2000.

Treatment # N Applied (Total N Available) (lb/ac)	Yield (bu/ac)	Protein (%)	Test Wt. (lb/bu)	Grain N Uptake (lb/ac)	Lb of total N Avail. Per bu. (lb/bu)	N Use Eff. of Total N Avail. (%)	Cost of N Applied (\$/ac)	Cost of Applied N per bu (\$/bu).
1. 135 (188)	132	10.8	63.8	150	1.5	75.8	81.00	0.61
2. 215 (268)	133	12.4	63.6	174	2.1	62.5	129.00	0.97
3. 295 (348)	130	13.9	62.7	189	2.8	52.7	162.00	1.25

N cost is figured at \$0.60 per lb. One would also need to add an application cost. The N for treatment #1 was applied on April 1, and treatments #2 (additional 80 lb/ac) and #3 (additional 160 lb/ac), N was broadcast applied on April 19th and irrigated. There is more in depth data published in the 2000 COARC Annual report.

To raise HRSW (vs SWSW), the additional nitrogen cost will be double, over and above the cost of raising SWSW. When protein is 10.5%, we think we have achieved maximum yield.

(Research was done locally by Peter Sexton, Rhonda Simmons, Neil Christensen, Russ Karow, John Bassinette, and Mylen Bohle)

Producing Safe Specialty Foods in the Northwest Workshop

The workshop will be held on March 5, 2010 from 8:00 am to 5:00 pm at the Double Tree Hotel—Lloyd Center, Portland.

Registration fees are: \$95.00 if registered by February 19, 2010, Late—\$125.00 if registered after February 19, 2010.

Based on a recent needs assessment regarding specialty food production in the northwest region conducted by food science extension programs at the three northwest land-grant universities, this workshop was developed to provide knowledge and resources for ensuring food safety of specialty food production in the northwest region. Formal lectures and question and answer sessions with speakers and specialty food processors, as well as written materials with information and resources will be provided.

Workshop Topics

- Introduction to unique features and characteristics of specialty foods
- Specialty food production in the northwest region
- Current food law and regulations and update on SQF (Safe Quality Food), BRC (British Retail Consortium), and ISO 2000
- Processing technologies and specialty ingredients used in specialty food production
- Panel discussion—Northwest specialty food processors share their stories and answer questions

You may register online at: http://oregonstate.edu/dept/foodssci/extservices/spec_food_NW_regform.htm

Or you may contact Debby Yacus at Deborah.yacuas@oregonstate.edu or 800-823-2357

Debby Yacus

Alfalfa Nutrient Removal

Have you ever wondered: if you had to pay for the replacement of the minerals your alfalfa hay took off your farm, what would be the cost of replacement? The following table represents the average pounds of nutrients per ton of dry matter hay exported off your fields in 3-cut and 4-cut annual harvests, over 4 year production cycle. Some of the differences are due to soil fertility at each site and the growth stage the crop was harvested. The data was generated from the 2004 -2007 alfalfa variety trials conducted at Powell Butte and Madras, Oregon.

Table. Average nutrient uptake (lb/ton DM hay) for Alfalfa varieties (Vernal and 54Q24 averaged), at COARC Powell Butte (3-cut) and Madras (4-cut) Oregon alfalfa variety trials conducted from 2004-2007.

Nutrient	Powell Butte 3-Cut Alfalfa 4-Year Avg. Uptake (lb/ton DM Hay)	Madras 4-Cut Alfalfa 4-Year Avg. Uptake (lb/ton DM Hay)
P2O5	11.8	12.6
K2O	59.5	78.0
Ca	21.9	26.1
Mg	4.8	5.7
S	3.9	4.0
Mn	0.033	0.066
Cu	0.113	0.015
Bo	0.080	0.093
Zn	0.029	0.025
Fe	0.105	0.136
Mo	0.002	0.002
Cl ¹	0.25	0.25
Total \$	--	--

¹ = book value (was not tested). Nutrient analysis conducted at OSU Analytical Lab

Mylon Bohle

Farm and Ranch Land Protection Program

The Farm and Ranch Land Protection Program (FRPP) provides matching funds to help purchase development rights to keep productive farm and rangeland in agricultural uses. Working through existing easement holders, USDA partners with State, tribal, or local governments and non-governmental organizations to acquire conservation easements or other interests in land from landowners. USDA provides up to 50 percent of the fair market easement value of the conservation easement.

FRPP is designed to protect farmlands from conversion out of agriculture. As such applications that meet the following criteria will compete well:

- From counties with the largest decrease in farm and ranchlands since 2000,
- From counties with high population growth since 2000,
- Farm and ranchlands with greater than 50 percent prime and unique soils.

(Farm and Ranch Land Protection Program cont.)

The cutoff date for applications to be ranked for 2010 funding in Oregon is February 1, 2010.

For application materials and more information, visit the NRCS Web site at: www.or.nrcs.usda.gov/programs/frpp or contact Bari Williams, Oregon NRCS Easement Specialist, at 503-414-3226.

Tim Deboodt

Washington Swine Information Day February 5, 2010

A Washington Swine Seminar will be held on February 5, 2010 from 8:50 am to 5:30 pm at the Pillar Rock Restaurant, Moses Lake, WA. Topics include:

- General Principles of Swine Necropsy and Common Swine Diseases
- PNW Swine Feed & Feeding: Ideas and Alternative Protein Supplements to Improve Efficiency and The Bottom Line
- National Pork Board and Pork Checkoff Update
- NPB "We Care" Program: Swine Care and Handling
- Show Pig Industry: In the Show Ring
- Rapid Fire Updates: Show Pig Feeds and Nutrition Programs

There will be a WPP Luncheon and WPP Dinner with the Annual Meeting.

Registration is \$30.00 (Adults) \$15.00 (Youth) for the am session and \$10.00 for the pm session. Register by January 27, 2010. Call 509-754-2011 ext. 413 or email smithsm@wsu.edu at WSU Grant/Adams Extension Service.

Gene Pirelli, OSU Swine Specialist

National Swine Nutrition Guide

The U.S. Pork Center of Excellence has scheduled to hold a regional training conference for the newly released national swine nutrition guide in conjunction with the Washington Swine Information Day on February 5th in Moses Lake, WA at the Pillar Rock Restaurant.

The 2009 National Swine Nutrition Guide is a practical publication containing nutrient recommendations and feeding guidelines. The guide consists of nutrition factsheets, nutrient recommendation tables, and diet formulation and evaluation software. The guide was written as a collaboration between university swine nutritionists and swine industry specialists.

The National Swine Nutritional Guide will be distributed and explained at the regional conference in Moses Lake from 1 pm until 7 pm.

Registration for the training session is \$80 and includes the National Swine Nutritional Guide. The guide can be purchased separately for \$125. To register or learn more, please visit www.usporkcenter.org or call (515) 294-2490. Conference registration will be open until January 22, 2010.

Gene Pirelli, OSU Swine Specialist

Calendar

January

- 13-14 Washington State Hay Growers Convention, Three Rivers, Convention Center, Kennewick, WA.
For more info: <http://www.wa-hay.org/>
- 14 Wheat Marketing Meeting - Oregon Wheat League. COARC, Madras. 8:00 am (Call 541-475-7107)
- 20-21 Northwest Direct Seed Cropping Conference, Three Rivers Convention Center, Kennewick, Washington
- 22 Central Oregon Hay Growers's Assoc. Forage Day. Clover Club Bldg. Crook County Extension Service, 502 SE Lynn Blvd. Prineville. 541-447-6228
- 22-23 Tri-State Cattleman's Workshop and Young Cattleman's Tour
- 29 Crook County SWCD Neighborhood Meeting. Paulina

February

- 1 Crook County SWCD Neighborhood Meeting. Post
- 1 Farm and Ranch Land Protection Program Application cutoff date (503-414-3226)
- 3-4 Central Oregon Farm Fair. Jefferson County Fairgrounds. Madras (541-475-3808)
- 5 Central Oregon Pest Management Course. Deschutes County Fairgrounds, Redmond, OR
- 10 Save Water – Save Energy Irrigation Seminar. Location TBA Redmond (RSVP 541-447-6228)
- 10-11 18th Annual High Desert Green Industry Conference (541-548-6088)
- 11 Wheat Marketing Meeting - Oregon Wheat League. COARC, Madras. 8:00 am (Call 541-475-7107)
- 13 Central Oregon Hay Growers' Association Banquet. Meadow Lakes, Prineville. 5:30 pm
- 16 Roundup Ready Alfalfa Comments are Due
- 16-17 Idaho Alfalfa and Forage Conference. Best Western Burley Inn, Burley, ID. Call Glenn Shewmaker at 208-736-3608 or go to: <http://www.idahohay.com/>
- 18 Crook County SWCD Neighborhood Meeting. Prineville
- 18 Core Pesticide Training Session, OSU Extension, Jefferson County
- 23 Seed Production of Native Grasses and Forbes Workshop, Ontario
- 27 10th Annual Small Farms Conference, Oregon State University, Corvallis campus

March

- 11 Wheat Marketing Meeting - Oregon Wheat League. COARC, Madras. 8:00 am (Call 541-475-7107)
- 20 Living On A Few Acres. Deschutes County Fairgrounds, Redmond
- 23 Small Farms Program: Growing Farms—Successful Whole Farm Management Workshop, Deschutes County Ext.
- 30 Small Farms Program: Growing Farms—Successful Whole Farm Management Workshop, Deschutes County Ext

April

- TBA Oregon Forage and Grassland Council Annual Conference TBA
- 6 Small Farms Program: Growing Farms—Successful Whole Farm Management Workshop, Deschutes County Ext
- 8 Wheat Marketing Meeting - Oregon Wheat League. COARC, Madras. 8:00 am (Call 541-475-7107)
- 13 Small Farms Program: Growing Farms—Successful Whole Farm Management Workshop, Deschutes County Ext
- 17 Goat Jamboree Details TBA
- 20 Small Farms Program: Growing Farms—Successful Whole Farm Management Workshop, Deschutes County Ext
- 27 Small Farms Program: Growing Farms—Successful Whole Farm Management Workshop, Deschutes County Ext

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