



Oregon State University Extension Service

# Central Oregon Agriculture

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## Energy Trust offering Incentives for Energy Efficiency

The Energy Trust of Oregon continues to offer incentives to help individuals pay for the installation of energy efficient equipment used on farms and nurseries. We have been offering these incentives for the past 10 years, in fact we just celebrated our 10<sup>th</sup> anniversary. We offer the incentives because it is better and cheaper to do that than to build a new power plant or upgrade the transmission system. In the last three years 987 growers participated in our program and received over \$4 million towards the cost of installing the more efficient equipment. Not only did the grower receive the incentive to help pay for the installation, but the energy savings keep on paying off year after year in reduced utility bills. Because of this program, in 3 years, Oregon saved over 23 million kilowatt-hours (kWh) of electricity and almost 1 million Therms of natural gas.

One grower replaced the gaskets on her irrigation system and filed for a rebate. We sent her a check for \$430 and she will be saving \$900 each year in electricity savings until those gaskets wear out and need to be replaced. We have also paid out much larger amounts. Another grower installed a variable frequency drive on their pump and received a \$9,000 check from the Energy Trust, they will save about \$8,500 each year in reduced electricity bills and the VFD cost them \$17,000, this investment will pay for itself in about a year.

The Energy Trust offers incentives for drop tubes, low pressure sprinklers, new nozzles, drains, gaskets and pipe repair. We can also help pay for the installation of a VFD on a pump, the conversion to a drip system, or the conversion of a linear or pivot to a low pressure irrigation system using drop tubes. Call us at (503) 928-3154 or check out our web site at [www.energytrust.org/ag](http://www.energytrust.org/ag) for more information.

*Ulrike Mengelberg, Energy Trust*

## SAIF Workshops

Plan on attending one of SAIF Corporation's agricultural training seminars that are scheduled between November, 2012 and February, 2013 in 17 cities around Oregon - see schedule on attached link. Anyone working in the agricultural industry is welcome to attend, and small agricultural employers attending the seminar will meet one of the four requirements that exempt small agricultural establishments from random OSHA inspections. The seminar is also approved for two hours of private applicator pesticide "Core" credits from ODA, three hours of technical and one hour of business continuing education credits for the Oregon State Landscape Contractors Board. Producer continuing education credit hours for the licensed insurance agents have been approved. Seminars are held from 9:30 a.m. to 2:30 p.m. and include lunch. For more information, call 800.285.8525 or register online at [http://www.saif.com/employer/employer\\_agseminars.aspx](http://www.saif.com/employer/employer_agseminars.aspx).

Topics include: Forklift Safety, Worker Protection Standard (WPS), Practical Solutions for Pesticide Safety and Turn Employees into Safety Leaders.

The English language workshop locations are Bandon (Feb. 25), Boardman (Nov. 19), Central Point (Feb. 11), Clackamas (Jan. 3), Corvallis (Dec. 11), Eugene (Jan. 10), Hillsboro (Jan. 7), Hood River Jan. 16), Klamath Falls (Feb. 26), **Madras (Nov. 12)**, Ontario (Nov. 6), Pendleton (Nov. 7), Salem (Jan. 2, Feb. 19, Feb. 28), The Dalles (Nov. 20, Jan. 22), Tualatin (Dec. 12, Feb 5), and Woodburn (Feb. 7).

The Spanish language workshop locations are at Central Point (Feb. 12), Hermiston (Jan. 24), Hillsboro Jan. 8), Hood River Jan. 17), Salem (Feb. 20), The Dalles (Jan. 23), and Tualatin (Feb. 6).

*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 office.

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- ◆ Pamela Wiederholt - Ag. Newsletter Coordinator, 447-6228

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

- ◆ Dana Martin - Regional Administrator, 548-6088

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

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

**Jefferson County** Extension Service - Phone 550-4130, 1170 E Ashwood Rd., 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**

- ◆ Marvin Butler - Director, 475-7107

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/coarclindex.php>

#### **Central Oregon Agricultural Extension Service Staff**

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Toni Stephan - Horticulture and Small Farms Instructor, 548-6088

Bo Ming Wu - Plant Pathology, 475-7107

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.

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OSU Extension programs will provide reasonable accommodations to persons with physical or mental disabilities. Contact your local Extension office to request reasonable accommodations.

## **Ag Summit**

The Dunn Cary Ag Summit will be held Friday, January 11, 2013 at Wilsonville (OR) Holiday Inn.

Program includes:

- Bill Wyatt, Executive Director, Port of Portland Update
- Katy Koba, Oregon Department of Agriculture Update
- Water Quality Update TBA
- Ag Liens - TBA
- How to Handle Federal and State Agency Investigations - TBA
- Estate Planning: Federal and State Updates - TBA

To register go to: <http://www.dunnarneym.com/news-events/events/register/?id=15> or call (503) 224-6440.

*Mylon Bohle*

## **Pesticide Applicator Classes in December at COCC's Bend Campus**

COCC's Continuing Education program is offering three pesticide applicator classes for those preparing to take the licensing exams or for those who need recertification credits:

- Pesticide Applicator Laws & Safety on Friday, December 7 from 8:00am to 5:00pm.
- Pesticide Applicator Herbicides (Ornamental & Turf) on Saturday, December 8 from 8:00am to 5:00pm.
- Pesticide Applicator Insecticides/Fungicides (Ornamental & Turf) on Saturday, December 15 from 8:00am to 5:00pm.

Each class is approved for 8 hours of recertification credits for licensed applicators (Laws & Safety is approved for 4 core credits of the 8 total credits). Cost for each course is \$99 and preregistration is required to attend. All classes are held in COCC's Boyle Education Center room 154. For those who are studying for the Department of Agriculture Pesticide Applicator licensing exam, COCC's testing center will offer the exam at the end of each class for a testing fee of \$25. If you plan to take the exam, please bring \$25 in cash or check payable to COCC Testing Center.

For more information or to register, contact COCC Continuing Education at (541) 383-7270.

*Nancy Jumper, COCC*

## **Living on a Few Acres (LOAFA) Conference**

Living on a Few Acres Conference is scheduled for March 16, 2013, and targets small acreage landowners and farmers of all sizes. More than 30 classes will be offered to provide opportunities to learn about field management, small farm business, growing specialty crops, livestock management, tractor and field implements, water rights and wildlife management. Classes will feature some of the favorites from the 2012 Conference plus new ideas for 2013. Look for registration information in the January/February 2013 issue of the Central Oregon Agriculture Newsletter.

*Toni Stephan*

## ***DRAFT* - Crook County Forestland Classification Proceeding To Move Forward - *DRAFT***

As of October 18<sup>th</sup>, the Crook County Forestland Classification Committee was reconvened at the State Forester's request for the purpose of studying lands within Crook County to determine which lands meet the definition of forestland as described in Oregon law. Lands determined to be forestlands are assigned a classification based on their productivity. This information is used to determine where ODF is required to provide wild land fire protection services, and to determine which lands are subject to an annual forest patrol assessment. For private landowners, this assessment is included in their annual property tax statement.

This will be the first time in over 30 years that such classification work has been done in Crook County. The forestland classification process is intended to be open and transparent. All of the committee meetings will be advertised by public notice and are open to the public. The Crook County Forestland Classification Committee will meet regularly on the 1<sup>st</sup> Thursday of each month from the hours of 3:00 PM – 5:00 PM at the COCC Open Campus Conference Room located at 510 SE Lynn Blvd, Prineville, OR. The December meeting of the Forestland Classification Committee is scheduled to occur on Thursday, December 6<sup>th</sup> 2012. In addition, you can follow the Crook County Forestland Classification Committee's progress on the internet at: [www.oregon.gov/odf/centraloregon](http://www.oregon.gov/odf/centraloregon).

In the next successive Forestland Classification Committee meetings, the Committee will begin their evaluation of forest lands by compiling productivity data and reviewing a series of draft maps delineating proposed forestland with their proposed classifications for lands within Crook County. Once the preliminary forestland classification findings are adopted by the committee, a series of public information meetings will be scheduled to provide the public and landowners opportunities to review the Forestland Classification Committee's preliminary findings, proposed maps and ask questions regarding the forestland classification process. Once the public information meetings are complete, the Forestland Classification Committee will schedule a public hearing to start a two week period to receive public comment regarding the committee's preliminary forestland classification findings. After the conclusion of the public comment period, the Forestland Classification Committee will make an evaluation of public comments received, may make relevant changes to the preliminary classification as it finds necessary and finalize the forestland classification findings in a formal written order filed with the Crook County Clerk's office. Upon conclusion of filing the Crook County Forestland Classification with the Crook County Clerk's office, landowners who are aggrieved by the classification will have an opportunity to appeal their classification findings for a period of 30 days to Crook County Circuit Court for final resolution.

More information may be obtained from the ODF office in Prineville by calling (541) 447-5658.

*Kevin Benton/Department of Forestry*

### **Central Oregon Food Policy: Autumn Social & Food Gathering**

Who Should Attend: Farmers, Ranchers, Food Businesses and the General Public

When: Thursday, Nov. 29, 2012

Time: 5pm - 7pm

Location: City of Redmond Public Works Bldg., 243 E. Antler, Redmond, Oregon

Cost: **Free!**

A celebration of local foods can satisfy more than just our appetite. A vibrant, local food system can provide Central Oregon farmers and food businesses a secure income while protecting our environment and meeting the growing consumer demand for fresh, nutritious food. The COFPC provides their members with access to the *Food & Farm Directory*, a source for locally grown and raised food products, and a monthly e-newsletter. Come and join us in our celebration of our community.

- ✓ Food and beverages will be provided
- ✓ Social gathering to meet farmers, ranchers and food businesses
- ✓ Information about collaborating on grant opportunities, the Central Oregon Food Hub, increasing access for producers, food businesses and low-income residents
- ✓ Informal presentation by Rogue Farm Corps

RSVP: <http://cofpc.eventbrite.com/> or visit [www.centraloregonfoodpolicy.org](http://www.centraloregonfoodpolicy.org) for more information.

*Dana Martin*

### **2012-2013 Oregon Hay and Forage Directories are now Available**

The hay directory is published by the Oregon Hay and Forage Association (Ph: 541-447-6228), and sent out to most dairies and feed stores in Oregon, Washington, and northern California, as well as to OHFA producers and industry members. Stop by your local Extension office to pick one up or call (541) 447-6228 to receive a copy.

*Myleen Bohle*

## Welcome Toni Stephan

Toni Stephan is our new Horticulture Small-Farm Instructor who will be working four days a week out of the OSU Deschutes County Extension office in Redmond. Toni will be assisting Amy Jo Detweiler, Horticulture Agent, with the Master Gardener program and taking over the Small Farms/Living On A Few Acres/Farmers Network programs.

*Dana Martin*

## Building Soils for Better Crops Conference

November 27-28, 2012, Big Bend Community College, Moses Lake, WA

The Columbia Basin has abundant water, but the soils of the irrigated Columbia Basin, as a result of developing under sparse natural vegetation, are low in organic matter. This conference will take a more detailed look at the nature of soil organic matter and how scientists are beginning to understand its complexity, how soil health can be measured, and you will hear about the many ways that soil health can be increased, from those who are doing it. Examples of using cover crops, high residue farming, grazing livestock, and soil amendments will be presented with insight on how to integrate these practices into a soil building program. For more information contact Andy McGuire at [amcguire@wsu.edu](mailto:amcguire@wsu.edu) or call (509) 754-2011, Ext. 413. To register go to: <http://extension.wsu.edu/irrigatedag/Pages/BSfBC2012.aspx>

### DAY 1 (TENTATIVE AGENDA)

- 8:30 Check-in and On-site Registration
- 9:00 Introduction, Context and Questions David Granatstein, WSU CSANR
- 9:25 What is Soil Organic Matter? Soil Organic Matter Pools, Function, and Texture effects
- 10:25 Break
- 10:45 Relationship of Soil Organic Matter to Soil Nitrogen and Carbon cycles.
- 11:45 Discussion of morning sessions
- 12:00 Lunch
- 1:00 The Fundamentals of Building Soil for Better Crops
- 1:50 Break
- 2:10 Measuring Soil Quality – How to Tell if you are Building Your Soil
- 3:00 Soil Amendments; Properties and Benefits of Manure and Compost
- 3:40 Discussion and Wrap-up
- 4:15 Speakers available for further discussion

### DAY 2 (TENTATIVE AGENDA)

- 8:30 Check-in and On-site Registration
- 9:00 Introduction, Context and Questions
- 9:20 Soil Health for Potatoes
- 10:20 Break
- 10:40 Perennial Cover Crops for Sustainable Production of Corn Grown for Biomass
- 11:25 Stratification of Soil Organic Matter as a Measure of Soil Health and as a Strategy for Low Organic Matter Soils
- 12:00 Lunch

- 1:00 Managing Tillage, Pastures, and Integration of Livestock with Crops to Build Soils
- 2:00 No-till Cropping and Cover Crop Cocktails
- 2:40 Break
- 3:00 Enhancing Soil Health with Livestock & Cover Crops
- 3:40 Discussion and Wrap-up
- 4:00 Speakers available for further discussion

There will be CCA credits for soil & water management - 7.5 and crop management – 1.

*Mylene Bohle*

## Strengthening Agriculture's Infrastructure: Adding Value, Breaking-Down Barriers, Increasing Profits

Western SARE invites you to Strengthening Agriculture's Infrastructure: Adding Value, Breaking Down Barriers, Increasing Profits Conference to be held December 3 – 5, 2012, at the Embassy Suites, Airport, 7900 NE 82nd Avenue, Portland Oregon.

To register go to: <http://www.westernsare.org> or contact Stacie Clary at [stacie.wsare@charter.net](mailto:stacie.wsare@charter.net) or call (831) 419-5432.

### Confirmed Keynote Speakers and Panelists:

Fred Kirschenmann, Leopold Center for Sustainable Agriculture  
 Ken Meter, Crossroads Resource Center  
 Karl Kupers, Shepherd's Grain  
 Theresa Marquez, Organic Valley  
 Gail Feenstra, UC SAREP  
 Steve Balling, Del Monte  
 Stacy Davies, Country Natural Beef  
 Lisa Sedlar, New Seasons Market

### Topics to be included:

- + Trends, Opportunities and Challenges to Building Ag Infrastructure
- + What are Key Next Steps
- + How to Make Programs, Regulations and Investment Work
- + Niche Livestock and Poultry Processing
- + Adding Value: Food, Fiber, Fuel
- + Local and Regional Marketing and Distribution
- + Community Responses to Infrastructure Gaps

The conference will prepare Western region agriculture for sustainably processing, marketing and distributing high quality food in systems that:

- + Draw consumers closer to food producers;
- + Increase economic viability of food producers of all sizes;
- + Expand the marketplace for sustainably produced food;
- + Increase community food security;
- + Assure abundance in the face of increasing fossil fuel costs.

The Western SARE Administrative Council is organizing this conference in response to the participants in our Sub regional Conferences listing gaps and barriers in agriculture infrastructure as a high need to be addressed in our region for continued economic viability in the 21st Century. Western SARE will provide updates on the conference by email, on our website and in our newsletter. If you are not on the newsletter email list, please contact Stacie Clary at [stacie.wsare@charter.net](mailto:stacie.wsare@charter.net) to ensure receiving regular updates.

*Mylene Bohle*

## Beef Quality Assurance: Basic Cow-Calf Certification Workshop

What is BQA?

- ✓ Nationally coordinated, state implemented program
- ✓ Provides common sense husbandry techniques, along with accepted scientific knowledge to raise cattle under optimum management and environmental conditions

Who Should Attend?

- ✓ All cattle producers
- ✓ All cattle producers in need of recertification (recommended every 3 years)

Why Should You Attend?

- ✓ Upholds consumer confidence in valuable beef products
- ✓ Protects the beef industry from additional and burdensome regulation
- ✓ Demonstrates commitment to food safety and quality
- ✓ Enhances herd profitability through better management
- ✓ Safeguards the public image of the beef industry
- ✓ Improves sale value of marketed beef cattle



Schedule and Locations (4 pm to 8 pm):

Nov 27<sup>th</sup>, 2012, La Grande, OR - Union County Extension Office, 10507 N McAlister Rd.

Nov 28<sup>th</sup>, 2012, Prineville, OR - Crook County Open Campus Bldg., 510 SE Lynn Blvd., room 119-120.

Nov 29<sup>th</sup>, 2012, Corvallis, OR - OSU Campus, Oldfield Teaching Ctr., SW Campus Way x SW 35th St.

This program will consist of a 3-hour workshop training, followed by the certification exam and dinner. Certificates will be mailed within 2 weeks. A workbook will be provided. **NO REGISTRATION FEE.** For more information, please contact Reinaldo Cooke at (541) 573-4083.

*Reinaldo Cooke, Extension Beef Specialist*

## Calving School

**Friday, December 7, 2012, Klamath Falls Fairgrounds Event Center, Klamath Falls, Oregon**

02:00 – 02:10 pm - **Introduction**

Dr. Reinaldo Cooke - *Beef Cattle Specialist*

Willie Riggs - *Regional Administrator South Central Region & Director KBREC*

02:10 – 02:40 pm - **The Calving Process**

Dr. Charles Estill - *Extension Veterinarian*

02:40 – 03:00 pm - **Nutritional and Management Strategies to Prevent Calving Problems**

Dr. Reinaldo Cooke - *Beef Cattle Specialist*

03:00 – 03:20 pm - **Designing Calving Facilities**

Dr. Reinaldo Cooke - *Beef Cattle Specialist*

03:20 – 03:40 pm - **Break – Refreshments Provided**

03:40 – 04:25 pm - **Dystocia and Calving Assistance**

Dr. Charles Estill - *Extension Veterinarian*

04:25 – 04:40 pm - **Diseases and Injuries Associated with Calving**

Dr. Charles Estill - *Extension Veterinarian*

04:40 – 05:00 pm - **Managing Newborn Calves**

Dr. Charles Estill - *Extension Veterinarian*

This program will consist of presentations, educational videos, and simulated calving assistance. A handbook will be provided. Registration fee: \$20.00. For more information, please contact Willie Riggs (541) 883-7131 or Reinaldo Cooke (541) 573-4083).

*Reinaldo Cooke, Extension Beef Specialist*

## Acidified Foods School

**December 10-12, 2012, OSU Campus, Corvallis, Oregon**

Each processor of low-acidified foods is required to operate with a certified supervisor on hand at all times during processing. This school provides the necessary training to certify supervisors of such processors. For more information contact Debby Yacas, Ph: (541) 737-6483 or toll-free: 1 (800) -823-2357, [deborah.yacas@oregonstate.edu](mailto:deborah.yacas@oregonstate.edu). *Debby Yacas*

## Statewide Wheat Marketing Meetings

The Oregon Wheat Growers' League has resumed the Statewide Marketing Education Series Meetings. These or every other month meetings generally occur the third Thursday of the month via Polycom video conferencing at various locations throughout the state. The OWGL website is at [www.owgl.org](http://www.owgl.org) or for other information you may call Sally Christensen, Member Services Director, Oregon Wheat Growers League, (541) 276-7330, (phone), (541) 276-1723 (fax).

Upcoming marketing meetings are tentatively planned for December 20<sup>th</sup> and February 21<sup>st</sup>. Central Oregon producers can view the monthly Polycom presentations at the COARC, Madras site or at the OSU Crook County Extension Service Office at 498 SE Lynn Blvd, Prineville. Please call (541) 475-7107 (COARC Madras) or call (541) 447-6228 (Prineville) the day before, to confirm your attendance and / or to make sure the meeting is taking place.

*Mylen Bohle*

## 39<sup>th</sup> Annual Hermiston Farm Fair & Trade Show

Hermiston Farm Fair & Trade Show is being held Wednesday, November 28 – Friday, November 30, at the Hermiston Conference Center, 415 S. Hwy 395. The Farm Fair is an agricultural forum co-sponsored by OSU Extension Service, the Agriculture Committee of the Greater Hermiston Chamber of Commerce, and local agriculture-related businesses displaying their wares and services, both inside and outside the Conference Center. <http://oregonstate.edu/dept/hermiston/announcements/farm-fair-amp-trade-show> or call (541) 567-8321.

There is a \$10.00 fee for attending the Core Program. All other sessions are free to attendees. No pre-registration is required. Oregon, Washington and Idaho pesticide re-certification credits will be available, in addition to CCA credits. The full Farm Fair agenda with updates and pesticide credit hours will be available on the website by mid- November.

*Mylen Bohle*

## What is Hay Worth?

Wondering what the price of hay is whether you are buying or selling? Especially if you are raising and selling hay, you may want to get in on the weekly call from USDA Market News Service, Moses Lake, WA. The C.O. hay market report can be freely accessed at the home page: [http://www.ams.usda.gov/mnreports/ml\\_gr313.txt](http://www.ams.usda.gov/mnreports/ml_gr313.txt) or if you want to go directly to the page to check on all of the different state markets, go to this web site: [http://www.ams.usda.gov/AMSv1.0/ams\\_fetchTemplateData.do?template=TemplateN&navID=MarketNewsAndTransportationData&leftNav=MarketNewsAndTransportationData&page=LSMarketNewsPageHay](http://www.ams.usda.gov/AMSv1.0/ams_fetchTemplateData.do?template=TemplateN&navID=MarketNewsAndTransportationData&leftNav=MarketNewsAndTransportationData&page=LSMarketNewsPageHay).

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

It also works if you want to buy hay and you are wondering where the market is at.

*Mylen Bohle*

## Dormant Alfalfa Herbicide Timing

Fall is here, and Winter is on its' way. Producers who are growing clean alfalfa hay might want to seriously consider applying their dormant alfalfa herbicide treatments this Fall / early winter, after the plants are dormant. For the last two alfalfa variety trials conducted (1998 and 2003 Planting dates), we switched from late winter / early spring herbicide applications on our alfalfa trials at COARC, to late Fall applications. We had excellent weed control with the Fall applications, and we did not have to deal with any spring burn down of alfalfa that one sometimes has to accept, if the herbicide is applied too late.

In an alfalfa herbicide trial in the 1990's at COARC, it was documented that if the timing was too late in the spring (for whatever the reason), a producer might be giving up as much as a half of ton of alfalfa hay per acre, because of the burn down to the growing foliage. When that happens, it is growing season time, and yield lost, and you can never get it back. The other interesting find from those trials, was that the negative herbicide effect carried over into the 2<sup>nd</sup> cutting with another loss in yield of about a fifth to a quarter of a ton of hay per acre.

If you have applied your herbicides to your dormant alfalfa in the late winter/ early spring for years, or have never applied in the Fall, you might want to try this on a few fields and compare them to your fields that are late winter / early spring applied. We added 0.5 lb. a.i. of gramoxone to the mix (with whatever main herbicide you are using) and got excellent weed control.

*Mylen Bohle*

## California Forage and Grains Conference

Doubletree Hotel, Sacramento, California

Monday, December 10 is the all-day Delta Agricultural Tour of the Sacramento-San Joaquin River Delta region of Northern California, with an emphasis on agriculture wildlife, natural resource and water issues.

Tuesday, December 11

- + Industry Economic Trends—Markets, Global Issues, Dairies Session
- + Megatrends Affecting Alfalfa & Grain Session
- + Breakout Session I: Producing Alfalfa from A to Z: What are the most important things to remember about producing a high yielding, high quality alfalfa crop?
- + Breakout Session II. Producing Wheat from A to Z: What are the absolutely most important things to remember about producing a high yielding, high quality wheat crop?

Wednesday, December 12

- + Crop Biology and Innovations in Genetics: Wheat and Alfalfa Sessions
  - + Current Trends in Markets and Technology
- Agenda and Registration at <http://alfalfa.ucdavis.edu/>

*Mylen Bohle*

## Water Soluble Carbohydrate Content of Grasses

The following tables present water soluble carbohydrate (WSC) content of different grass species grown at Powell Butte and Madras, Oregon. Note the difference between the species and the different cuttings (summer harvests are generally lower in WSC content). Testing each cutting is essential to determine WSC content. Crook County and Central Oregon Haygrowers Association provided funding.

Table 1. Percent (%) water soluble carbohydrate (WSC) content of 12 different cool season grass species grown at the COARC, Powell Butte, Oregon, harvested three times annually from 2004 to 2007, and ranked from lowest to highest average percent (%) WSC content.

Year >	2004			2005			2006			2007			Avg.
	Cuttings			Cuttings			Cuttings			Cuttings			
Species/Cut>	<u>1</u>	<u>2</u>	<u>3</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>1</u>	<u>2</u>	<u>3</u>	
Mountain brome	12.4	6.0	5.7	10.8	6.0	7.4	12.6	8.9	8.0	12.3	9.5	12.4	9.3
Alaska brome	12.4	6.4	7.0	11.3	6.0	8.0	13.1	10.2	8.5	12.6	9.9	12.4	9.8
Reed canarygrass	8.8	6.7	9.0	8.3	6.6	12.8	8.8	13.0	9.4	12.4	8.5	12.7	9.8
Orchardgrass	12.0	6.6	8.0	11.0	6.1	10.2	10.7	9.8	11.6	12.2	10.0	14.3	10.2
Meadow brome	9.1	10.6	6.5	8.8	5.9	11.3	11.0	12.0	10.6	13.3	10.9	13.2	10.3
Smooth brome	12.1	6.6	8.0	10.3	8.3	11.5	13.8	12.2	9.6	13.4	9.9	14.1	10.8
Newhy hybrid	8.5	6.6	7.1	7.6	7.4	10.5	11.8	13.8	12.7	13.5	13.7	16.1	10.8
<i>Average</i>	<i>12.1</i>	<i>8.2</i>	<i>8.7</i>	<i>11.3</i>	<i>7.6</i>	<i>11.3</i>	<i>12.9</i>	<i>12.1</i>	<i>11.1</i>	<i>13.3</i>	<i>11.3</i>	<i>14.3</i>	<i>11.2</i>
Tall fescue	12.2	7.5	10.1	13.0	7.5	11.8	12.8	11.7	12.4	13.6	13.0	14.6	11.7
Timothy	12.8	10.2	13.0	11.0	9.6	14.1	12.6	12.1	13.9	13.1	11.8	16.6	12.6
Prairiegrass	13.7	11.2	10.5	15.7	9.8	12.4	14.8	13.3	11.1	14.1	12.4	14.6	12.8
California brome	16.9	10.3	9.8	16.4	8.7	12.4	17.5	13.4	11.5	13.5	12.1	14.6	13.1
K. bluegrass	14.7	9.5	10.3	10.8	9.0	13.2	15.4	14.9	13.5	15.6	14.1	16.3	13.1

Table 2. Percent (%) water soluble carbohydrate (WSC) content of 12 different cool season grass species grown at the COARC Madras, Oregon, harvested four times annually from 2004 to 2007, and ranked from lowest to highest average percent (%) WSC content. (Cuts 2-4 for most grass species, were pretty much vegetative, almost pasture – like.)

Year >	2004				2005				2006				2007				Avg.
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	
Mt. brome	10.6	7.1	3.9	12.8	14.3	6.6	3.8	9.7	10.0	4.2	5.6	8.1	11.9	4.6	4.9	6.7	7.8
R.canary	6.7	5.0	4.2	15.7	8.6	5.6	5.4	12.5	6.5	4.5	6.6	12.0	10.7	4.5	6.3	9.6	7.8
Meadow brome	6.0	6.3	4.8	14.1	9.8	8.0	5.7	12.7	6.7	4.9	7.8	11.6	9.8	5.4	7.0	9.0	8.1
Newhy hybrid	9.5	7.1	4.3	14.5	12.7	6.9	5.6	11.3	7.2	4.8	8.1	10.7	11.2	4.5	6.9	9.8	8.4
Cal. brome	8.0	6.2	4.9	13.3	12.1	7.4	6.1	10.3	8.5	6.3	8.3	11.8	10.6	6.2	7.1	8.2	8.5
Smooth brome	9.8	6.1	5.1	13.4	15.2	8.3	4.7	13.7	9.3	4.5	6.5	10.9	11.8	5.1	6.3	9.0	8.7
Orchard	13.1	7.9	5.4	14.2	12.3	8.3	5.3	14.0	7.9	5.0	7.3	13.9	12.3	4.2	6.5	12.4	9.4
<i>Average</i>	<i>10.8</i>	<i>8.4</i>	<i>6.2</i>	<i>14.6</i>	<i>14.0</i>	<i>9.2</i>	<i>6.5</i>	<i>13.5</i>	<i>9.6</i>	<i>6.7</i>	<i>8.6</i>	<i>13.0</i>	<i>12.8</i>	<i>6.1</i>	<i>7.7</i>	<i>11.5</i>	<i>9.9</i>
Prairie grass	19.8	10.2	6.4	12.6	17.1	9.5	6.5	14.7	12.5	7.2	8.3	12.5	14.7	6.3	7.6	10.5	11.0
K. blue	9.2	10.3	7.9	9.0	17.0	12.3	8.8	9.1	11.6	9.8	12.3	14.6	15.2	8.7	11.3	12.4	11.2
Timothy	10.4	9.3	7.9	17.4	11.6	10.5	7.3	16.7	8.8	8.2	8.8	17.3	14.0	7.0	87.9	16.3	11.3
T.fescue	11.0	11.5	9.4	17.3	18.0	11.9	9.6	17.7	11.2	10.0	12.4	16.0	15.3	8.4	10.4	15.6	12.9
Festulo- lium	15.7	13.9	10.8	21.0	19.6	14.4	9.1	19.2	15.5	10.9	10.7	16.9	15.6	8.3	9.4	17.9	14.3

## CALENDAR

### November

- 15 Statewide Monthly Wheat Marketing Meeting (see article page 6).
- 19 SAIF Workshop (see article front page).
- 20 SAIF Workshop (see article front page).
- 22-23 Thanksgiving Holiday
- 27-28 Building Soils for Better Crops Conference (see article page 4).
- 27-29 Beef Quality Assurance: Basic Cow-Calf Certification Workshops (see article page 5).
- 29 COFP Autumn Social & Food Gathering (see article page 3).
- 28-30 Hermiston Farm Fair & Trade Show (see article page 6).

### December

- TBA Private Pesticide Applicator Exam Prep Class, 8:30am to Noon, Madras, OR. Call (541) 475-7107
- 3-5 Strengthening Agriculture's Infrastructure: Adding Value, Breaking Down Barriers, Increasing Profits (see article page 4).
- 6-9 American Forage and Grassland Council Annual Conference, Covington KY. [www.afgc.org](http://www.afgc.org) or call 1-800-944-2342.
- 7 Calving School (see article page 5).
- 7, 8, 15 Pesticide Applicator Classes (see article page 2).
- 10-11 Acidified Foods School (see article page 5).
- 11 SAIF Workshop (see article front page).
- 10-12 Far West Agribusiness Association Winter Conference, Pasco, Washington. Visit [www.fwaa.org](http://www.fwaa.org).
- 10-12 California Alfalfa and Grains Symposium (see article page 6).
- 12 SAIF Workshop (see article front page).
- 20 Statewide Monthly Wheat Marketing Meeting (see article page 6).
- 20 SAIF Workshop (see article front page).

### January 2013

- 2, 3, 7, 8, 10, 16, 17, 23 and 24 - SAIF Workshops (see article front page).
- 6-9 American Forage and Grassland Council Annual Conference. Covington, KY. Visit [www.afgc.org](http://www.afgc.org) or call 1-800-944-2342.
- 7-9 Far West Agribusiness Association Winter Conference, Twin Falls, ID. Visit [www.fwaa.org](http://www.fwaa.org).
- 10 Ag Summit (see article page 2).
- 16-17 Washington State Hay Growers Association Annual Conference. Three Rivers Convention Center, Kennewick, WA.  
<http://www.wa-hay.org/>
- 22 SAIF Workshop (see article front page).
- 23 SAIF Workshop (see article front page).
- 26 Central Oregon Forage Day, Prineville, OR. For more information contact Mylen Bohle at (541) 447-6228.

### March

- 16 Living on a Few Acres Expo. Deschutes County Fairgrounds, Redmond, OR (see article page 2).

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