

# Central Oregon Agriculture

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## Cereal Field Day and Tour

Tuesday, July 16, 2013, 1:30 p.m.

### Central Oregon Ag Research Center (COARC), Madras, Oregon

Day will consist of a tour of the Winter Wheat and Spring Wheat Variety Trials on-station. Topics of conversation confirmed for the day will include:

- Winter and Spring Wheat Variety Trials - Mike Flowers
- Winter Wheat Breeding Program - Bob Zemetra
- “Newest” Disease in Town: Soilborne Wheat Mosaic Virus - Mike Flowers and Chris Mundt
- Cereal Disease Update - Chris Mundt
- Weeds and Weed Control in Cereals – Andy Hulting / Gustavo Sbatella
- Oregon Wheat Growers League Update – Kurt Feigner

For more information contact Mylen Bohle at (541) 447-6228, or Rhonda Simmons at (541) 475-7107.

*Mylen Bohle and Rhonda Simmons*

## Sheep Breeding Soundness Program

Wednesday, July 17, 2013, 5:00 p.m. - 7:00 p.m.

### 15333 NW O’Neil Hwy., Redmond, Oregon

Join Billie Estridge, local sheep breeder, and Dr. Jacob Crawford, DVM, at Billie’s farm, for all the latest on sheep breeding soundness. There will be a potluck for dinner so bring your favorite dish!

For more information contact Billie Estridge at: [tcf@cbbmail.com](mailto:tcf@cbbmail.com) or phone (541) 480-1340.

*Tim Deboodt*

## Central Oregon Wine and Grape Growers’ Association (COWGGA)

Wednesday, July 17, 6:00 p.m.

### Faith, Hope and Charity Vineyard and Winery

#### 70450 NW Lower Bridge Way, Terrebonne, Oregon

Join the COWGGA for their next monthly workshop and vineyard tour. Everyone is welcome...whether you are interested in wine or table grapes, have 5 or 5,000 grape plants.

For more information contact Kerry Damon (541) 771-7817 or Cindy Grossman at (541) 350-5384 to **RSVP** (or if you need directions).

*Mylen Bohle*

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**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.

- ◆ Mylen Bohle, Editor, 447-6228
- ◆ 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 475-7107, 850 Dogwood Lane., Madras, OR 97741
- Warm Springs** Indian Reservation - Phone 553-3238, 1110 Wasco St., PO Box 430, Warm Springs, OR 97761

**Central Oregon Agricultural Research Center**

- ◆ Marvin Butler, Director, 475-7107
- Madras Site – Phone 475-7107, 850 Dogwood Lane, 97741  
Powell Butte Site - 8215 SW Hwy. 126, 97753

**Extension Service & Experiment Station Web Sites**

Crook County: <http://extension.oregonstate.edu/crook>  
Deschutes County: <http://extension.oregonstate.edu/deschutes>  
Jefferson County: <http://extension.oregonstate.edu/jefferson>  
Central Oregon Agricultural Research Center:  
<http://oregonstate.edu/dept/coarclindex.php>

**Central Oregon Agricultural Extension Service Staff**

- ◆ Mylen Bohle/Forage, Hay, Pasture, Cereals, 447-6228
- ◆ Fara Brummer, Ag and Natural Resource, Warm Springs Indian Reservation, 553-1520
- ◆ Marvin Butler, Vegetable Seed, Grass Seed and Peppermint Production, 475-7107
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- ◆ Steve Fitzgerald, Forestry, 548-6088
- ◆ Katie Ralls, COARC Educational Coordinator, 475-7107
- ◆ Gustavo Sbatella, Crop and Rangeland Weed Control, 475-7107
- ◆ Toni Stephan, Horticulture & Small Farms Instructor, 548-6088

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

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

## ODA Restricts Use of Certain Dinotefuran Pesticides

June 27, 2013...*in the wake of large bee kills, ODA takes steps in an abundance of caution.* The Oregon Department of Agriculture is restricting the use of 18 pesticide products containing the active ingredient dinotefuran while it continues the investigation of a large kill of bumblebees in Wilsonville and Hillsboro this month. By adopting a temporary rule, ODA is taking action, in an abundance of caution, to avoid the potential of similar large bee kills this summer due to specific pesticide applications.

“I have directed the agency to take this step in an effort to minimize any potential for additional incidents involving bee deaths connected to pesticide products with this active ingredient until such time as our investigation is completed and we have more information,” says ODA Director Katy Coba. “Conclusions from the investigation will help us and our partners evaluate whether additional steps need to be considered.”

The ODA restriction focuses on ornamental, turf, and agricultural pesticide products that are used by both professional applicators and homeowners. Products with the active ingredient dinotefuran registered in Oregon for other uses, such as flea and tick control on pets or home ant and roach control, are not affected by the restriction. ODA’s concern is focused on those uses that may impact pollinators.

By statute, ODA has legal authority to establish limitations and procedures deemed necessary and proper for the protection of bees and other pollinating insects. The temporary rule, which goes into effect immediately, will be enforced for 180 days, by which time ODA is expected to complete its pesticide use investigations of the Wilsonville and Hillsboro incidents.

Those investigations will determine if the pesticide applications were in violation of state and federal pesticide regulations, and will assist ODA in addressing any potential future actions.

ODA’s Pesticide Program has established a website with more information on the dinotefuran restriction, including a list of specific products affected as well as instructions for those who may have purchased these products. Go to:  
<http://oregon.gov/ODA/PEST/Pages/Pollinator.aspx>.

(see article page 5, **180 Day Moratorium on Pesticide Product in Oregon**)

*Bruce Pokarney, (503) 986-4559*

## Eastern Oregon Liming Guide

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

*Mylen Bohle*

## New Crop Sign and Website Project

Madras, Oregon – A crop sign and website project ([www.JeffCoSeed.com](http://www.JeffCoSeed.com)) to inform travelers and locals to Jefferson County has just been completed.

At the 2013 Farm Fair, the Jefferson County Seed Council voted to support costs (up to \$3500) associated with a crop sign and website project in cooperation with Central Oregon Agricultural Research Center. The project includes the placement of 24 crop signs along high traffic areas of Highways 26 & 97, on the route to Trout Creek and in the Culver area. The signs are 48" x 16" and are constructed from highly durable Dibond with sturdy frames allowing them to be moved from year to year. Each sign is printed on both sides with the crop name, website name ([JeffCoSeed.com](http://JeffCoSeed.com)), a QR code (to allow smartphone scanning) leading viewers to the website and a quote regarding the economic value of agriculture in Central Oregon.

The signs direct viewers to the new [JeffCoSeed.com](http://JeffCoSeed.com) website which presents picture rich information about a variety of crops grown in Central Oregon. In addition, the site includes pages offering information about the history of agriculture in Central Oregon, the importance of burning and smoke management, and testimonials by local, multi-generational farmers and their families. In addition, there will be a Farm Fair page allowing for reduced printing and mailing for vendor sign-ups. This website allows the Seed Council to communicate and get vital information and updates out to the local community and to those traveling through the area.

*Marvin Butler*

## Update - Living on a Few Acres Conference Huge Success!

The LOAFA Conference held on March 16, 2013 at the Deschutes County Fair and Expo Center was a great success. While the attendance was down slightly from last year, people expressed that the conference was excellent. Marie Kitchen, of Bend, said, "I would definitely go again and have recommended it to several people already." Attendees had the opportunity to attend 4 classes, from 34 choices, during the day. New classes included Dr. Jennifer Cole's class on "Goats, the perfect animal for small acreages" and Christine Cole's class on "Raising Chickens". Marie attended both of these classes and said "they were both very, very valuable". In fact, she had been thinking of using goats on her property and the information she gathered confirmed that goats would be a great choice. Chris Burk, of CRR, also enjoyed the goat class as she has a small herd of 7 goats. She also enjoyed the beekeeping class because she has always been interested in bees. Comments gathered from the 101 evaluations turned in suggested that chickens, goats, hogs and more horse classes should be a part of next year's conference. Hugh Stephan, of Redmond, said of OSU Instructor Fara Brummer's class on toxic plants, "She gave such an interesting talk I forgot to go to my next class and stayed right there for her next presentation". Dr. Bernadine Strik of OSU shared her expertise on berries and grapes. Participants were awed by her extensive knowledge and experiences. Liz Douville, of Bend, expressed that she was planning on putting in a raspberry patch and "had she not

attended the class would have planted too closely". Other new classes ranging from using Eastern medicine and chiropractic for horses, learning how to take care of your septic system, rescue and evacuation techniques for large animals and how and why to use fertilizers were also given high praise. Instructor, Ed Bartz representing Pet Evacuation Team, gave a demonstration on how a horse can be lifted out of a deep ravine if it is not able to get out by itself.

Traditional LOAFA classes were also well received. Pasture and grazing management, irrigation techniques, pond and wildlife habitat, composting, food preserving and raising beef are classes that draw good class numbers and seem to be what new small acreage owners are always interested in. Participant Mike Burk attended the soil and composting classes hoping to gain information for ways to create a better growing medium at his home in CRR. Kris Knoernschild, of Bend said this about LOAFA, "This was the 2nd LOAFA conference that my husband & I have attended. We moved to a 40 acre property just over a year ago and LOAFA has been a fantastic resource for us to learn how to be better stewards of our land. We both felt the whole day was interesting, informative, and very beneficial to us personally... We received spot-on material to help us build a greenhouse, manage our water rights, improve our irrigation efficiency, grow berries, manage our pond, and create wildlife habitat on our property. Mark actually brought home a huge folder of handouts – it weighed over 3 pounds!"

The vendor display area had a nice selection of vendors and during breaks was filled with people wanting extra information from our knowledgeable merchants and partners in stewardship. If someone needed information about rules, resources or who to go to for land use advice this was the place to be as all the local agencies were available in the vendor area. Laurie Gordon suggested that we include more merchant vendors next year, highlighting items they stock that the small landowner or small producer might use as part of their operation. So merchants, if you think LOAFA sounds like a venue you should be at next year contact me at [toni.stephan@oregonstate.edu](mailto:toni.stephan@oregonstate.edu).

Living On A Few Acres could not happen if it were not for sponsors and people to plan the event. Sponsors of LOAFA this year were; Deschutes County Farm Bureau, Central Oregon Irrigation District, Wy'East Resource Conservation and Development and the Deschutes County Commissioners by way of the Deschutes County Economic Development Grant program. Many agencies collaborated to plan LOAFA, included in this group are, OSU Extension Service, Oregon Department of Agriculture, Deschutes County Soil and Water Conservation District, Jefferson County Soil and Water Conservation District, Natural Resource Conservation Service, Deschutes River Conservancy, Central Oregon Irrigation District, Round Butte Seed Growers, Deschutes Native Seed Resources and Oregon Department of Fish and Wildlife.

Chris and Mike Burk wrapped up the conference this way, "All in all this is something we plan to do again if it is offered next year." And it will be offered in 2014. Save the date of March 15, 2014 for your exciting day of learning, socializing and networking with others at Living On A Few Acres.

*Toni Stephan*

## Idaho Pasture and Grazing Workshop

Sept 9-12. Lost Rivers Grazing Academy: Intensive Management of Irrigated Pastures, Salmon, Idaho, featuring Jim Gerrish. For more information contact Charles Cheyney at [ccheyney@uidaho.edu](mailto:ccheyney@uidaho.edu) or (208) 527-8587 or Scott Jensen at (208) 896-4104 or [scottj@uidaho.edu](mailto:scottj@uidaho.edu). You may also download a brochure at: <http://www.extension.uidaho.edu/owyhee/AgLostRiversGrazingAcademy.htm> or follow us on Facebook at: <https://www.facebook.com/LostRiversGrazingAcademy>.

*Mylene 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, Portland, Oregon. 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>

Once you are signed up to participate in the hay market report if you would like to contribute to the 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 report and also published in the Capital Press. The idea is if both seller and buyer know the market, then a true, free and fair market exists for all concerned. It also works if you want to buy hay and you are wondering where the market is at, when looking for hay to purchase.

For more information:

- ~ USDA Market News Service, Portland, OR
- ~ Martha Hansen, Tiffany Smit, or Niki Davila
- ~ [Portland.LGMN@ams.usda.gov](mailto:Portland.LGMN@ams.usda.gov)
- ~ 24 hour grain price information (503) 326-2022
- ~ [www.ams.usda.gov/mnreports/ML\\_GR313.txt](http://www.ams.usda.gov/mnreports/ML_GR313.txt)
- ~ [www.ams.usda.gov/lsmarketnews](http://www.ams.usda.gov/lsmarketnews)
- ~ Ph: (503) 326-2237

*Mylene Bohle*

## Support of the Central Oregon Agricultural Research Center Very Much Appreciated!

The Central Oregon Agricultural Research Center budget for the 2012/2013 fiscal year received \$22,000 in funds gathered from the local agricultural industry into the COARC Support Fund, which is held at the OSU Foundation. The total budget cut for 2012/2013 was \$50,000 however, \$20,000 was provided by the Oregon Wheat Commission and \$8,000 from the Oregon Potato Commission.

Four years ago the College of Agricultural Sciences challenged the industry to provide 25% of branch stations base budgets, in response COARC developed a multi-pronged approach in cooperation with the COARC Advisory Council, local seed contractors and agricultural dealers. This voluntary plan includes \$10/acre for carrot seed, \$3/acre for grass seed, a suggested \$1/acre for non-contracted crops, and donations from seed contracts and/or agricultural dealers.

Money transferred from the COARC Support Fund is controlled by the COARC Liaison Committee of six, comprised of four grower and industry representatives, the COARC Director and CAS Dean. The committee configuration insures that control of the funds remains with local growers and industry. A formal vote at the April 30 COARC Advisory Council meeting recommended that the COARC Liaison Committee transfer \$22,000 for this fiscal year, and the Liaison Committee voted to make the transfer.

Support from the statewide wheat and potato commodities this year has been reduced from a total of \$28,000 to \$15,000, with \$10,000 coming from the Oregon Wheat Commission and \$5,000 from the Oregon Potato Commission. This will require increased local support for the 2013/2014 fiscal year.

Thank you for your ongoing support of COARC. Your support has the attention of the CAS which approved replacement of our plant pathology position last winter. We will be interviewing four candidates during July 8 to 23. The specifics of those interviews will be shared in the near future so you can plan to participate in that important process.

*Marvin Butler*

## Summer Agriculture Institute 2013

Summer Agriculture Institute (SAI) is a 3-credit, week long, graduate level course for K12 educators with little or no agricultural background, offered through Oregon State University. The goal of SAI is to help educators use Agriculture as a context (or theme) for teaching the Academic Standards (science, math, social studies, English, etc.). Additionally, educators will receive hands on instruction and collateral materials to incorporate agriculture into their classroom curriculum. SAI provides a working environment for participants to experience current, factual, scientific information about agriculture. For more information and to register please visit the [Summer Agriculture Institute website](#).

*Mylene Bohle*

## 180 Day Moratorium on Pesticide Product in Oregon

The EPA notified OPMP this morning regarding a large bumble bee kill in Oregon involving a landscaper using a pesticide to control aphids in linden trees at a Target parking lot. EPA has been notified that the State of Oregon has issued a 180 day (effective June 27, 2013) “don’t use” moratorium on the product. The investigation is ongoing. This event indicates a need to remind users of pesticides about the absolute importance of reading and following the label – and to pay particular attention to WARNINGS. While this was not a result of an agricultural application and was an urban use, the EPA has asked if OPMP can work thru the land grant system to get the word out through extension and education offices to reinforce this very important message to the agricultural community. EPA is contacting their stakeholders.

With agricultural production in full swing all across the country, OPMP requests your assistance through outreach and education to remind all users of pesticides of the importance of following the label. This helps to ensure good pest management while protecting wildlife, their habitat, and the environment. It is especially important that urban gardeners and homeowners, who may not be as familiar with the content of the label, have access to this important information. We are requesting your assistance in communicating this information to your communities. Information could include the following:

*Use of any pesticide in any way that is not consistent with label directions and precautions is illegal.* It may also be ineffective and dangerous. The basic steps in reducing pesticide risks are:

- Choose the form of pesticide best suited to your target site and the pest you want to control:
  - First, identify the problem correctly and then, choose the least-toxic pesticide that will achieve the results you want **and** be the least toxic to you and the environment.
  - When the words “broad-spectrum” appear on the label, this means the product is effective against a broad range of pests. If the label says “selective,” the product is effective against one or a few pests.
  - Read the label *before buying* the pesticide, read the label *before mixing or using* the pesticide *each time*, and read the label before storing or disposing of the pesticide.
  - Determining the right amount to purchase and use: **do not assume that using more pesticide than the label recommends will do a better job.** It won’t.
- Find the signal word—either *Danger*, *Warning*, or *Caution* on the pesticide label. The signal word tells you how poisonous the product is to humans.
- Choose the form of pesticide (aerosol, dust, bait, or other) best suited to your target site and the pest you want to control. Certain formulations work better for some pests and/or some target areas better than others.
- Using the product safely and correctly:
  - Never apply pesticides outdoors on a windy day (winds higher than 10 mph).
  - Wear protective clothing, don’t smoke or eat.
  - Mix and apply only the amount you need.
  - Watch for negative effects on wildlife (birds, butterflies, and bees) in and near treated areas. If you see any unusual behavior, stop using that pesticide, and contact EPA’s Pesticide Incident Response Officer.
- Store and dispose of pesticides properly:
  - Follow all storage instructions on the pesticide label.
  - Always store pesticides in their original containers, complete with labels that list ingredients, directions for use, and first aid steps in case of accidental poisoning.

State and local laws regarding pesticide disposal may be stricter than the federal requirements on the label. Be sure to check with your state or local solid waste agency before disposing of your pesticide containers.

*David Epstein, Ph.D., Entomologist, USDA Office of Pest Management Policy, Washington, DC*

*Ph: (202) 720-9877; email: [david.epstein@ars.usda.gov](mailto:david.epstein@ars.usda.gov)*

## Alfalfa Variety Evaluations

Ten conventional and seven Roundup Ready alfalfa cultivars were planted at the Central Oregon Agricultural Research Center in Madras, Oregon on August 31, 2011. The entries were separated into two trials, one Conventional and one Roundup Ready and separated by a 60 foot border. The entries were planted in 5 ft. by 20 ft. plots in a randomized block design replicated 4 times. The planting rate was 25 lbs./acre of pure, live seed, in 8-inch row spacing, with an Oyjord plot drill. All plots were inoculated with Nitragin AB® prior to planting.

These data are from the first cutting of this second year evaluation of conventional and Roundup Ready alfalfa varieties at the COARC Madras location. Industry representatives guiding this project chose to go with four cuttings per year. As a result, the yields may be less than one would expect, but quality is better than one may expect if harvest were delayed.

### Conventional Alfalfa Variety — Hay yields and first cutting crude protein\*, ADF\*, NDF\*, TDN\* and RFV for June 4, 2013 at the Central Oregon Ag. Research Center, Madras, OR.

Variety	Cutting Date June 4	Crude Protein	ADF <sup>1</sup>	NDF <sup>2</sup>	TDN <sup>3</sup>	Relative Feed Value
	ton/acre	% of DM <sup>4</sup>				
6422Q	3.3	20.8	35.9	43	62	132
WL 363HQ	3.3	19.4	34.4	40.5	61	143
WL 354HQ	3.5	20.3	36.2	42	60	134
445NT	3.0	19.2	36.1	42.6	59	133
FGI 48W202	3.1	20.9	35.3	40.1	61	142
Mountaineer 2.0	3.1	19.6	35.6	41.3	60	138
Pioneer 54V09	3.6	18.8	36.9	43.7	61	128
Pioneer 54Q25	3.6	19.8	35.5	41.4	60	137
Vernal	2.9	20.0	35.5	41.6	61	137
Plumas	3.5	21.1	33.7	38.4	62	152

### Round Up Ready Alfalfa Variety — Hay yields and first cutting crude protein\*, ADF\*, NDF\*, TDN\* and RFV for June 4, 2013 at the Central Oregon Ag. Research Center, Madras, OR.

Variety	Cutting Date June 4	Crude Protein	ADF <sup>1</sup>	NDF <sup>2</sup>	TDN <sup>3</sup>	Relative Feed Value
	ton/acre	% of DM <sup>4</sup>				
R470K215	3.7	20.2	34.4	41.4	63	140
433TRR	3.5	20.8	34.5	41.0	63	141
FGI R58HG236	3.4	19.9	35.0	42.9	62	134
FGI R48W224	3.7	19.6	35.6	43.1	62	132
DKA 43-22RR	3.4	19.9	36.4	43.1	60	131
Pioneer 54R014	3.6	18.1	36.4	44.1	59	128
4R200	3.5	18.5	34.2	40.8	61	142

Yields are presented on an oven-dry, dry matter basis. Samples were dried at 145°F until no change in weight, average moisture was 20%. Plots were cut at less than 1% bloom visible.

\* Analysis by Dairy One, based on percent of dry matter.

<sup>1</sup> ADF: acid detergent fiber.

<sup>2</sup> NDF: neutral detergent fiber.

<sup>3</sup> TDN: total digestive nutrients.

<sup>4</sup> DM: dry matter.

*Marvin Butler and Rhonda Simmons*

## Online Pesticide Recertification Classes

Online pesticide recertification classes are currently being designed and created by experienced OSU Extension Service agricultural faculty and Oregon State University's Professional Noncredit Education staff members. These courses are designed to **be an hour in length** and to meet Oregon and other state's standards for pesticide recertification credit. Classes can be taken at your convenience and **one credit hour will be awarded** for each class successfully completed. These courses are designed to be **interactive** and **engaging** and can also be helpful to use for people studying to take their pesticide applicator test for the first time. For more information about these classes and when they will be available please check **PNE's website**.

*Mylon Bohle*

## COARC Plant Pathologist Position, Candidate Seminars/Madras, Oregon

**Kelly Ivors:** July 9<sup>th</sup> - 11:00-noon - Seminar at COARC facility with local growers and industry.

Title: "Taking the Bite out of Blight: Recent Progress towards the Management of Bacterial Leaf Spot and Boxwood Blight".

**Ken Frost:** July 11<sup>th</sup> - 11:00-noon - Seminar at COARC facility with local growers and industry.

Title: "The Use of Modeling Tools to Inform and Enhance the Effectiveness of IPM Programs".

**Bart Fraaije:** July 18<sup>th</sup> - 11:00-noon - Seminar at COARC facility with local growers and industry.

Title: "Development and Application of Diagnostics Tools to Monitor Fungal Inoculum and Fungicide Resistance".

**Jeremiah Dung:** July 23<sup>rd</sup> - 11:00-noon - Seminar at COARC facility with local growers and industry.

Title: "Jeans, Genes, and GPS: Using Molecular Epidemiology to Understand and Manage Plant Diseases in Central Oregon".

*Katie Ralls*

**2013 Small Farm School**  
**Saturday, September 7, 2013**  
**Clackamas Community College -- Clairmont Hall**  
 19600 Molalla Avenue, Oregon City, Oregon 97045

Small Farm School is an all day event for beginning farmers and small acreage landowners. Field and classroom workshops will address small farm topics such as crop and livestock production, direct marketing, small-scale equipment, and soil and water conservation.

**See Last Years Event**

*Watch 2012 Videos!*

*2012 Program & Workshop Descriptions*

*2012 Small Farm School Presentations*

*Information for Exhibitors and Sponsors*

Go to <http://smallfarms.oregonstate.edu/small-farm-school> for more information or call (503) 655-8631

*\*Registration is non-refundable\**

Presented by OSU Extension Service in cooperation with Clackamas County Soil and Water Conservation District and Clackamas Community College



## Calendar 2013

**(Have an Ag related meeting, happening? Call Pam @ 541-447-6228 to add to Calendar)**

### July

- 9 COARC Plant Pathologist Seminar, Madras, Oregon (See article page 7).
- 11 COARC Plant Pathologist Seminar, Madras, Oregon (See article page 7).
- 16 Cereal Field Day, Madras, Oregon (See article front page).
- 17 Sheep Breeding Soundness Program , Redmond, Oregon (See article front page).
- 17 Central Oregon Wine And Grape Growers' Workshop and Vineyard Tour, Terrebonne, Oregon (See article front page).
- 18 COARC Plant Pathologist Seminar, Madras, Oregon (See article page 7).
- 23 COARC Plant Pathologist Seminar, Madras, Oregon (See article page 7).
- 27 180 Day Moratorium on Pesticide Product in Oregon Begins (See article page 5).

### September

- 7 2013 Small Farm School, Oregon City, Oregon (See article page 7).
- 9-12 Lost Rivers Grazing Academy (See article page 4).

### December

- 9-11 Western Alfalfa and Forage Symposium, Reno NV. More information to come.



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