

Central Oregon Agriculture

VOLUME 26 ISSUE 2

MARCH/APRIL 2017

Inside this issue:

~AI School for Cattle	2
~Middle Deschutes Watershed	2
~Era of Megafires	2
~CO Horticulture Workshops	3
~Roundup on RR Alfalfa	3
~Brucellosis Prevention	3
~Master Woodland Mngr Cancel	4
~Cover Crops	4
~Thank you CO Forage Sponsors	4
~Permaculture Course	4
~Irrigation Mgmt Workshop	4
~T-Sum Growing Degrees	4
~Irrigation System Upgrades	5
~Precipitation Update	5
~Calendar	6

Central Oregon Hay Growers Association Annual Banquet

The Central Oregon Hay Growers' Association Annual Meeting and Banquet will be held on Saturday, *March 18*, at the Juniper Golf Course, 1938 SW Elkhorn Av. Redmond. No-host social hour starts at 6:00 pm, dinner at 6:30 pm, with business meeting (2017 budget, election of board members, research report, etc.) at 7:15 pm. At 8:00 pm, Kelly Simmelink will talk about "The Solar Eclipse: How 2 minutes and 4 seconds will affect Central Oregon". Dinner for fifty (50) has been ordered. Dinner is Chicken Marsala and Roast Pork Loin with Chutney Sauce for \$40 (you can pay at the door). Please call 541-447-6228 to *RSVP by the morning of March 17th*.
Mylen Bohle

Irrigated Pasture and Grazing Management Class

There will be an Irrigated Pasture and Grazing Management Class held from 6:00 pm to 9:00 pm on March 20th at the Redmond Public Library meeting room, 827 Deschutes Ave, Redmond, Oregon. The class will be a power point presentation concerning all aspects of irrigated pasture production and grazing animals properly to optimize production. The class is for all levels of producer knowledge.

We will hold several irrigated pasture and grazing management sessions on-farm, around the central Oregon area. We are thinking of scheduling one each in May, July, and September (more details in May newsletter). In the late afternoon / early evening, walk through an irrigated pasture and talk about what is happening with the plants (top growth and root growth), watch animals graze, check grazing height, check compaction, talk about soil fertility, hear the management goals of the producer, evaluate the irrigation management, and do an overall pasture assessment (with a worksheet).

There is no charge for the workshop. OSU Extension Service, Deschutes County Soil and Water Conservation District, and NRCS are sponsoring the class and the on-farm pasture field days. Please RSVP for the Pasture Workshop by March 17 to Deschutes County SWCD cell phone 541-815-8733 (Jan Roofner).

Tammy Harty, Jan Roofner, Mylen Bohle, Scott Duggan, Tom Bennett, and Karlie Wyman

Central Oregon Wine and Grape Growers Association

The Central Oregon Wine and Grape Growers Association is planning some events this growing season. Whether you are interested in growing wine or table grapes, whether you have 5 grape plants, or 15,000 grape plants, everyone is welcome. Their web site is at <http://www.centraloregonwine.com/> The next meeting will be held in April.

Contact Kerry Damon, President, at 541-280-6243 to talk about membership or locations of the meetings and upcoming educational events.
Mylen Bohle

Noxious Weed Assistance for Landowners

The Crooked River Weed Management Area (CRWMA) provides cost-share assistance to private landowners to help control noxious weeds on their properties within the Crooked River Watershed area. The CRWMA will fund the cost of the herbicide or biocontrol agent and the landowner is responsible for the costs associated with the herbicide application. Landowners need to complete an application form and return back to CRWMA by May 5, 2017. Applications are at the office or on our website <http://crwma.co.crook.or.us/> CRWMA has cost-share program for Scotch Thistle assistance too. For more information contact Debbie Wood at 541-447-9971 or at debbie.wood@oregonstate.edu

Debbie Wood

Oregon State University Extension Service offers educational programs, activities, and materials without discrimination based on age, color, disability, gender identity or expression, genetic information, marital status, national origin, race, religion, sex, sexual orientation, or veteran's status. Oregon State University Extension Service is an Equal Opportunity Employer.

This publication will be made available in accessible formats upon request. Please call (541) 447-6228 for information. If you have a physical disability that requires special considerations in order for you to attend an event, please notify the appropriate program contact, three (3) days prior to event date.

Central Oregon Agriculture is a bi-monthly newsletter produced by the Central Oregon Extension offices and the Central Oregon Agricultural Research Center (COARC). The intent of this newsletter is to extend agricultural research-based information, to solve problems, develop leadership and manage resources wisely. Please direct comments and changes to the mailing list of your local County office.

- ◆ Mylen Bohle, Editor, (541) 447-6228
- ◆ Kim Herber, Ag Newsletter Coordinator, (541) 447-6228

Central Oregon County Extension Offices

(all area codes are 541)

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

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

Jefferson County Extension Service - Phone 475-7107,
850 Dogwood Lane., Madras, OR 97741

Warm Springs Indian Reservation - Phone 553-3238,
1110 Wasco St., PO Box 430, Warm Springs, OR 97761

Central Oregon Agricultural Research Center

- ◆ Carol Tollefson, 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/coar/index.php>

Central Oregon Agricultural Extension Service Staff

- ◆ Dana Martin, Regional Administrator, 548-6088
- ◆ Mylen Bohle, Crops, Cereals, Hay, Pasture and Irrigation, 447-6228
- ◆ Tim Deboodt, Range Resources and Livestock, 447-6228
- ◆ Amy Jo Detweiler, Horticulture, 548-6088
- ◆ Scott Duggan, Livestock, 480-3091
- ◆ Jeremiah Dung, Plant Pathology, 475-7107
- ◆ Clare Sullivan, Small Farms/Community Food Systems 548-6088
- ◆ Tracy Wilson, Soil Health and Plant Nutrition, 475-7107
- ◆ Toni Stephan, Horticulture and Small Farms Instructor, 548-6088
- ◆ Nicole Strong, Forestry, 548-6088
- ◆ Carol Tollefson, 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, 4-H 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.

AI School for Cattle

OSU Extension is developing a State-wide AI school for next Fall and Winter. The AI school will include both indoor and outdoor instruction, focusing on developing skills for artificial inseminating cows. The classes will also provide instruction on cow and herd management for efficient, successful reproduction. Course instructors, Adrienne Lulay and Shelby Filley are creating a list of individuals who would be interested in these classes. Classes will be taught at the Oldfield Animal Teaching Facility in Corvallis, OR. To get your name on the waiting list, go to http://extension.oregonstate.edu/douglas/sites/default/files/documents/lf/2017/ai_wait_list.pdf and fill out the form. For more information about the classes contact Shelby Filley, Regional Livestock and Forage Specialist @ Shelby.filley@oregonstate.edu or 541-236-3016.

Shelby Filley

The Middle Deschutes Watershed Council Grants

The Middle Deschutes Watershed Council and partners have funding available for private landowners in the Upper Willow Creek watershed.

Whether you own your land for income, investment, wildlife, or recreation, we can help you keep your watershed and land healthy and productive. Funding is available to help you maintain a healthy watershed for our economy, our health, and our enjoyment.

A landowner and partner meeting will be held this spring to discuss project and funding options that are available to landowners to address resource concerns that you may have. Look for further information to be mailed to you this spring. Please contact us if you have questions.

John Speece, 541-923-4358 x139,
johnathan.speece@or.nacdn.net

Era of Megafires

Megafires, wildfires over 100,000 acres, and their impacts on people and ecosystems is a serious and growing issue to our region. Our communities, homes, businesses and our very way of life are threatened. If we are going to make effective progress towards increasing fire resiliency, we must increase awareness and stimulate conversation about this important issue across all levels of society.

The Era of Megafires is a 70-minute, multi-media, traveling presentation hosted by Dr. Paul Hessburg, who has conducted fire and landscape ecology research for more than 27 years. This presentation will take place on Tuesday, April 4, 2017, 5:30 pm at the Bowman Museum in Prineville.

After the screening of Era of Megafires, members of the Ochoco Forest Restoration Collaborative will lead a Question and Answer discussion around topics that are relevant to our community in order to create local actions and answers to local challenges.

Doors open at 5:30 pm, presentation begins at 6:00 pm. Tickets are free but seating is limited, RSVP at www.OFRC.eventbrite.com

Nicole Strong

Living on a Few Acres Conference

Deschutes County Fair & Expo Center; March 11, 2017

<http://extension.oregonstate.edu/deschutes/LOAFA>

If you would rather get this newsletter ONLY by email, please contact the Deschutes County Extension office at 541-548-6088. We will be glad to switch you over to EMAIL.

Central Oregon Horticulture Workshops

Growing Vegetables in Central Oregon

(this class taught in Spanish)

Redmond-St. Thomas Catholic Church

April 1, 2017; 10:00 am to Noon/Free

Growing Vegetables in Central Oregon**

Bend—Environmental Center

April 1, 2017; 1:30 pm to 3:30 pm/Free

COMGA Spring Gardening Seminar **

Redmond-Deschutes County Fair & Expo Ctr

April 15, 2017; 8:00 am to 4:30 pm

Fruit Tree Pruning**

Bend

April 18, 2017; 1:00 pm to 3:30 pm/ \$20.00

Growing Vegetables in Central Oregon

Prineville—Central Oregon Community College Rm 119

April 22, 2017; 10:00 am to Noon/Free

Growing Vegetables in Central Oregon

Madras—Central Oregon Community College

April 22, 2017; 10:30 am to 12:30 pm/Free

Growing Vegetables in Central Oregon**

Redmond—Central Oregon Community College

April 27, 2017; 6:30 pm to 8:30 pm/Free

Growing Vegetables in Central Oregon

Sisters—Coffield Community Center

April 29, 2017; 10:00 am to Noon/Free

Growing Vegetables in Central Oregon

Sunriver—SHARC, 57250 Overlook Rd, off Circle 2

April 29, 2017; 2:00 pm to 4:00 pm/Free

****Pre-registration is required. Please call 541-548-6088**

AmyJo Detwiller

Roundup on RR Alfalfa

If you have Roundup Ready Alfalfa fields, you may or may not have noticed a stunting, yellowing, Shepherds cook neck effect on some stems, etc. that has occurred, after applying Roundup right before a frost event. The effect seems to occur when a frost occurs within 5 days of application. Yield decreases have been documented in northern California and central Oregon from zero loss to up to 1.0 ton /acre loss. There seems to be less stunting when alfalfa is sprayed at 2 inches or less. The taller the alfalfa when sprayed, up to 8 inches tall; trials suggest that there is a greater chance of a yield loss. So if you can apply earlier, rather than later, and perhaps do not apply the full rate (depending upon the weed you are trying to control), you stand a better chance of seeing no yield drag. You will still want to maintain a herbicide rotation program even though you have Roundup Ready Alfalfa. Still apply Roundup to control your weeds even though you think you might take a yield hit if a frost is imminent. Clean alfalfa always sells better than weedy alfalfa. Tests are being run in controlled greenhouse and growth chambers to try and figure out what is going on. (This is based on Steve Orloff's, Siskiyou County Extension in CA, and his 2015 and 2016 trial work in Northern CA, and a trial I cooperated with him on North-east of Christmas Valley in 2016)

Mylene Bohle

Brucellosis Prevention

Occasionally, someone that is new to the cattle business approaches me and inquires about the metal tag in the ear of heifers and cows. I explain that the metal tag represents an important step in keeping our beef herds in the United States healthy and people safe from undulant fever. The following paragraphs explain more about brucellosis, also known by the name "bangs disease".

Bangs was the last name of the Danish veterinarian who first isolated the bacteria, *Brucella abortus* as the causative agent back in 1897. Brucellosis is the only vaccine given to cattle that requires a veterinarian to administer the shot. The reason for this is brucellosis is highly infectious and is a zoonotic disease. Zoonotic means the disease is capable of spreading from animals to humans.

The name of the human form of brucellosis is undulant fever, which is a painful disease that causes fatigue and headaches followed by high fever, chills, joint pain and weight loss. Long-term effects include arthritis, chronic fatigue and recurrent fevers. While undulant fever does not typically kill its victims, it is a serious disease that can plague its victims for the rest of their lives. Humans contract undulant fever by eating raw meat from an infected animal or by drinking or eating contaminated, unpasteurized milk products. Additionally, if you slaughter an infected animal, the bacteria can enter your system through cuts or touching your eyes.

Due to the risk of infection, only trained veterinarians are permitted to administer the brucellosis vaccine. After the vaccine is given, a small metal tag is placed in the ear of the heifer where it remains for the rest of their lives. This metal tag is proof that the heifer is protected from brucellosis.

Brucellosis causes decreased milk production, weight loss, lameness, abortion of calves and infertility in cattle. Signs of brucellosis are slow to appear and difficult to detect in sick animals. Until cows start aborting calves or having weak calves, there is no visual sign that an animal is infected. When brucellosis is detected in a herd, cattle must be quarantined and infected animals are humanely slaughtered, as there is no cure for the disease. Sadly, ranchers can lose their entire herd to the disease as it is easily spread through bacteria shed in the milk or via the aborted fetus, afterbirth or other reproductive tract discharges. Therefore, brucellosis is responsible for large economic losses if detected in your herd.

Thanks to a national surveillance program, losses have dropped from 124,000 affected herds in 1956 to 700 in 1992 and less than 10 herds today. These large economic losses sustained in the past is why the livestock industry must remain vigilant. Thanks to the national surveillance program, the odds of having a positive test in your herd are small. However, if an infected cow is detected, ranchers often have to liquidate their entire herd. This results in significant financial losses and often their only option is to declare bankruptcy after a brucellosis outbreak. That is why it is so important to remain vigilant and avoid this devastating disease.

Scott Duggan

Master Woodland Manager Training Cancelled

Master Woodland Manager (MWM) has been cancelled for this year. Please stay tuned for updates for the upcoming season.

Nicole Strong

Cover Crops

If you are thinking about drying some of your irrigated acres this growing season or if water looks like it will be short for your particular farm, this might be the year to think about planting a cover crop on some of those fallow irrigated acres and see how it works out. Of course there are a lot of good reasons and situations to try a cover crop.

Interested in learning more about cover crops? *Managing Cover Crops Profitably (2007 edition)* explores how and why cover crops work, and provides all the information needed to build cover crops into any farming operation. Along with detailed management information on the most commonly used species—including grasses, grains, brassicas and mustards, and legumes—*Managing Cover Crops Profitably* offers chapters on the role of cover crops in broader topics such as crop rotations, pests and conservation tillage. It also has appendices on seed suppliers and regional experts. 244 pages and published in 2007, the online version is free. Following is a link <http://www.sare.org/> once on the home page, click on the learning center and it will take you to the following link:

<http://www.sare.org/Learning-Center/Books/Managing-Cover-Crops-Profitably-3rd-Edition/Text-Version>

Other Resources:

Cornell Website: <http://covercrops.cals.cornell.edu/>

Midwest Cover Crops Council: <http://www.mccc.msu.edu/>

USDA List of Cover Crops: <http://plants.usda.gov/java/coverCrops>

Cover Crop Topic Room/Western SARE: <http://www.sare.org/Learning-Center/Topic-Rooms/Cover-Crop-Topic-Room>.

Mylen Bohle

Thank you C.O. Forage Seminar sponsors

The OSU Extension Service and Central Oregon Hay Growers' Association very much thanks and appreciates the following sponsors for making the event a great success.

High Desert Auto Supply	Mid-Columbia Insurance
Helena Chemical, INC	Whitaker Farms
J&R Avila Farms	Columbia Bank
Thompson Pump	Pape' Machinery
Pratum Coop (CHS)	Ag West Supply
Midstate Fertilizer	Bend Distillery
McGinnis Ranch	Cascade Pump
KBE	Peterson Cat
Wilbur Ellis, Co.	Coyote Rock
Mid-Columbia Producers/Bend Oil	Les Schwab Tires
Bank of Eastern Oregon	Cloud Farms
High Desert Organix/C.O. Agronomy	
Proline Fabrication (\$500 Gift Certificate)	

Greg Mohnen, President, COHGA, and Mylen Bohle

Permaculture Course

Oregon State University is offering for the third (and maybe last) time, the 4-week online Intro to Permaculture course that is completely FREE! The course will be open from May 1—28, 2017.

Permaculture design is a method of landscape planning that can be applied to anything, from a home garden or farm to a city block or entire village. This free permaculture course uses design principles from nature itself and takes into account such things as how indigenous people used the land; how water, fire and wind flow through the land; and how soil, water, vegetation, building and habitats can be managed in a stable and enduring way. For more information please go to www.permaculture.co.uk

Irrigation Management and Principles Workshop

There will be an Irrigation Management and Principles Workshop held from 6:00 pm to 9:00 pm on Thursday, April 20th at the Redmond Public Library meeting room, 827 Deschutes Ave, Redmond, Oregon. The class will be a power point presentation concerning all aspects of irrigation information with emphasis on sprinkler irrigation, but also a little on flood irrigation. The class is for all levels of producer knowledge.

There is no charge for the workshop. OSU Extension Service, Deschutes County Soil and Water Conservation District, and NRCS are sponsoring the class. Please RSVP for the class by April 19 to Deschutes County SWCD cell phone 541-815-8733 (Jan Roofner).

Tammy Harty, Jan Roofner, Mylen Bohle,
Nicholle Kovach, Tom Bennett, Karlie Wyman

T-Sum Growing Degrees Update

T-Sum growing degrees is a calculated number of Growing Degree Days (GDD) that has been shown to be useful in timing spring nitrogen fertilizer applications for grass pasture and grass hay fields. If you are applying low rates of N (50-60lbs/ac) we recommend you use the 360F GDD's and if applying higher rates of N (100 – 150 lbs/ac) for grass hay production then apply around 720 GDD's. We are tracking the 2017 GGD's for multiple, central Oregon sites, a link to that information is:

extension.oregonstate.edu/crook/crops-forages-cereals

In comparing 2017 to the previous 3 years (2014-16), 2017 is a cooler year so far. The link: <http://uspest.org/OR/> will allow you to find data for Oregon weather stations and you can calculate your own GDD's. This site allows you to adjust your temperature threshold. For T-Sum, we use **32 degrees F as the lower threshold**. Also, you need to adjust the calculation method to **'simple average'**.

As of March 5th, here are T-Sum GDD's for a few selected sites:

	T-Sum GDD's
Madras	211
Powell Butte	226
Redmond	202
Christmas Valley	150
Fort Rock	120
Seneca	45

Mylen Bohle

Irrigation System Upgrades and Cost Share Assistance

The producers who came to the C.O. Forage Seminar in 2016 and the Irrigation Seminars in Burns and Christmas Valley in 2017, heard many presentations on irrigation management. For those producers with pivots and linears, there was some interesting information presented on Low Elevation Sprinkler Application (LESA) and Low Elevation Precision Application (LEPA) and Precision Mobile Drip Irrigation (PMDI). Producers need to check to see if changing to this new system, isn't something they should be looking at trying, maybe at first on a tower or two, and then, switching over all of their towers, once producers are convinced it will be a good hardware change for their operation. There are reports of water use efficiency well above 90%. There are reports of 98% water use efficiency using LEPA or PMDI type systems. *Check out these and other new irrigation Technologies with your local irrigation company.*

There are cost-share programs for improving water and energy use efficiency (change out worn nozzles and leaky gaskets) including maintenance for wheel and hand line type systems as well. You can check to see if upgrading to a VFD pump would improve your system and lower your power bill, or not.

There are system upgrades and cost share programs available in central Oregon. You can get free energy assistance and irrigation audits completed on your farm or ranch through CEC (WY'East) or Pacific Power (Energy Trust). You can contact your local power companies that are participating, or contact the following people, depending upon your power company for more information, help, and cost share dollars, or other irrigation needs.

Central Electric Co-operative: Robert Wallace, Executive Director/Oregon RC&D Energy Program Manager, Wy'East Resource Conservation and Development, Cell: 541-815-5503 or email Robert@Wyeast-RCD.org.

Pacific Power: Ulrike Mengelberg, *Outreach Manager for Industry+ Agriculture*, with Energy Trust of Oregon. Ph: 971.244.8193 Direct, or cell: 503-956-1568 or email ulrikemengelberg@cascadeenergy.com or their website at www.energytrust.org.

Other Resources:

- +USDA – Rural Development REAP (Energy Efficiency & Renewable Energy – Grants and Loan Guarantees) <http://www.rd.usda.gov/programs-services/rural-energy-america-program-renewable-energy-systems-energy-efficiency> and <http://farmenergy.org/>
- +Oregon Dept. of Energy – Tax Credits – Small Premium Projects (VFD < 125 HP & Sprinkler Hardware, project up to \$20k) <http://www.oregon.gov/energy/BUSINESS/Incentives/Pages/EIP-SPP.aspx>
- +NRCS – CSP – Conservation Stewardship Program currently taking applications until March 31st. Several Irrigation related enhancements that can be selected under this program.
 - <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/or/programs/financial/csp/?cid=stelprdb1239749>
 - Conservation Activities or Practices/Enhancements available <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/or/programs/financial/csp/?cid=nrcseprd492010>
- +Jefferson SWCD has OWEB Small Grants – Irrigation Projects are eligible for a grant up to \$10k. (May also be available @ Crook & Deschutes SWCD, check with Staff)
 - Contact : Debbe Chadwick, Jefferson County SWCD, Ph:541-923-4358 X 101, www.jeffswcd.org
- +Central Oregon Irrigation District offers small grants for small acreage irrigation system improvements.
- +Numerous producers have already taken advantage of these programs.

Mylen Bohle

Precipitation Update

Crop Year and 2017 Calendar Year to March 1 Precipitation

	October 1 – March 1			January 1 – March 1		
	2014/2015	2015/2016	2016/2017	2015	2016	2017
	Precipitation (inches)					
Christmas Valley	3.58	4.61	6.61	0.81	1.15	3.02
Bend**	7.28	5.93	8.66	1.80	1.51	3.64
Powell Butte	4.72	5.79	5.97	1.17	1.87	2.82
Madras	5.49	5.85	6.52	1.79	1.73	3.20
Fort Rock			7.29			3.53
Seneca			6.02			3.08
Redmond			8.84			2.96

**The lawn sprinkler system is/may be adding to the precipitation totals in October.

Mylen Bohle

Calendar 2017

March

- 11 Living on a Few Acres Expo. Deschutes County Fairgrounds, Redmond, OR. (See article)
- 11 Northwest Bison Association Spring Meeting, L Bar T Bison Ranch, Forest Grove, Oregon www.nwbisonassociation.com
- 18 Central Oregon Hay Growers' Association Annual Meeting and Banquet. Juniper Golf Course, Redmond (see article)
- 20 Pasture and Grazing Management Workshop. Deschutes County Public Library, Redmond. (see article)

April

- 1 Growing Vegetables in Central Oregon, St. Thomas Catholic Church, Redmond, OR (see article)
- 1 Growing Vegetables in Central Oregon, Environmental Center, Bend, OR (see article)
- 4 Era of Megafires, Bowman Museum, Prineville, OR (see article)
- 15 COMGA Spring Gardening Seminar, Deschutes County Fair & Expo Ctr (see article)
- 15 Oregon Agriculture 30th Annual Auction and Dinner, Linn County Fair and Expo Ctr, owaonline.org
- 18 Fruit Tree Pruning, Bend (see article)
- 20 Irrigation Management and Principles. Deschutes County Public Library, Redmond. (see article)
- 22 Growing Vegetables in Central Oregon, COCC Prineville, OR (see article)
- 22 Growing Vegetables in Central Oregon, COCC Madras, OR (see article)
- 27 Growing Vegetables in Central Oregon, COCC Redmond, OR (see article)
- 29 Growing Vegetables in Central Oregon, Coffield Community Center, Sisters, OR (see article)
- 29 Growing Vegetables in Central Oregon, SHARC, Sunriver, OR (see article)
- 22 North Lake County SWCD Annual Meeting and Field Day Contact Justin Ferrell at 541-947-5855 (Office)
lakecountyswcd@hotmail.com.

May

TBA Deschutes SWCD, NRCS, and OSU Extension Service Pasture Field Day

CENTRAL OREGON AGRICULTURE
OSU/DESCHUTES COUNTY EXTENSION SERVICE
3893 SW AIRPORT WAY
REDMOND, OR 97756