**Advanced High Tunnel Workshop**

Don’t miss the opportunity to learn advanced high tunnel management techniques from Andrew Mefferd (Growing for Market editor, and author of “The Greenhouse and Hoophouse Grower’s Handbook”)

When: Monday, February 24th  
Where: Deschutes County Extension Office (3800 SW Airport Way, Redmond)

There will be a cost for this workshop that includes lunch. Agenda and further details to come, please contact clare.sullivan@oregonstate.edu with questions.

Clare Sullivan

---

**In this issue:**

- Farm Service Agency 2
- Shearing Schools 2
- CC Stock Growers Mtg 2
- CC Stock Growers Annual Banquet 3
- CREP 3
- CE Courses - Irrigation and Herbicides 3
- Cover Crop & Soil Workshop 4
- Fertilize Your Pasture 4
- Growing Degree Table 5
- High Tunnel System 5
- ASF Virus 5
- ALB Programs 6
- Calendar 6

---

**Crook SWCD’s Annual Paulina Landowner Workshop**

Join us to learn about new technologies and their use in livestock production

Thursday, Feb 27th  
Paulina School  
Presentations 5:00 pm  
Tri-tip dinner to follow

The workshop will feature presentations from three OSU Extension livestock field faculty.

Chris Schachtschneider will talk about his work on the use of drones in livestock handling, and Juliana Ranches Ph.D., will present her research on the use of GPS collars to implement precision grazing. Scott Duggan will also give a short talk about the recent outbreaks of cryptosporidium in Crook County.

**RSVP**  
(541) 447-3548 OR  
[www.crookswcd.com](http://www.crookswcd.com)  
https://www.crookswcd.com/
Make Your Appointment Today with Farm Service Agency to Enroll in ARC, PLC, and CRP

Winter is an important time to visit your local USDA service center to discuss the many programs offered by the Farm Service Agency and Natural Resources Conservation Service, especially right now, when there are several signups occurring. The deadline for enrolling in either the Agriculture Risk Coverage or Price Loss Coverage programs is March 16, 2020. The deadline for enrolling in the Conservation Reserve Program is February 28, 2020. Visit https://www.fsa.usda.gov/ or make an appointment with your local FSA county office.

Scott Duggan

Shearing Schools Announce 2020 Dates

Several shearing schools have announced dates for the coming season. In addition to learning to shear in a hands-on manner, the schools offer teaching on equipment, animal welfare and staying in shape for the physically demanding task. Equipment is usually supplied, but students are encouraged to bring any equipment they have, as well.

Washington State Shearing School – April 6-10, 2020, at the Grant County Fairgrounds in Moses Lake, WA. Email Sarah Smith at smithsm@wsu.edu.

Washington State Advanced Shearing School – April 11, 2020, at the Grant County Fairgrounds in Moses Lake, WA. Email Sarah Smith at smithsm@wsu.edu.

Oregon Shearing School – May 14-17, 2020, in Roseburg, OR. Email John Fine at johnandpeggyfine@charter.net or visit https://sheeporegon.com/.

Scott Duggan

The Oregon Conservation Reserve Enhancement Program (CREP)

Do you have a stream or natural pond on your property in need of Riparian Restoration? The Conservation Reserve Enhancement Program can provide funding for planting, fencing, seeding, Juniper removal, weed mitigation, livestock water development and other practices to enhance habitat and improve water quality. This program serves Crook, Deschutes & Jefferson County. For more information, contact Victoria Fischella, CREP Planner for Jefferson, Crook and Deschutes Counties at: 541-699-2936 – Victoria.Fischella@usda.gov – USDA Service Center: 625 SE Salmon Ave. Suite 6. Redmond, OR 97753.
COCC Continuing Education Courses – Irrigation

**Irrigation Basics**, March 5, Bend, OR: Learn to design, construct, repair and troubleshoot residential irrigation systems. This class covers basic hydraulic theory, how to obtain site information, determine irrigation requirements and water supply, select sprinklers and spacing ranges, and calculate pressure requirements. If you are working on an irrigation project, bring your plans and information to use in class discussion. Approved for 8 hours of continuing education for landscape contractors through the Oregon LCB. Instructor: Molly McDowell Dunston

**Drip Irrigation Basics**, April 4, Bend, OR: Landscape professionals and homeowners can learn about drip and low volume irrigation, including the basics of how a typical irrigation system works and steps to convert a traditional sprinkler zone into a drip zone. Explore the selection of low-volume emission devices and the benefits of using each in different drip irrigation applications. Covers how to reduce pressures, filtration for drip zones, sizing emitters, programming run times, and how to troubleshoot common problems. Whether you are thinking of performing your own drip retrofit or you work in the industry, this class is sure to expand your knowledge on drip irrigation and retrofitting systems. Approved for 4 hours of continuing education by the Oregon Landscape Contractor's Board (LCB). Instructor: Molly McDowell Dunston. To register: (541)383-7270 or [https://www.enrole.com/cocc/jsp/](https://www.enrole.com/cocc/jsp/)

Mylen Bohle

COCC Continuing Education for Landscape Professionals

COCC Continuing Education is offering several courses for landscape professionals. Courses are as follows:

**Herbicides Ornamental & Turf**, March 20, Bend, OR: This course covers the use of insecticides and fungicides in the establishment and maintenance of ornamental plants and turf to prepare for the Oregon pesticide certification exam in the Ornamental Turf: Insecticides/Fungicides category. **Prerequisite:** Pesticide Applicator Laws & Safety course or license. All materials included in class fee for students preparing to take the state exam (exam fee is not included). Instructor: Laurie Gordon

To register: (541)383-7270 or [https://www.enrole.com/cocc/jsp/](https://www.enrole.com/cocc/jsp/)

Mylen Bohle

Jefferson County SWCD will provide a cover crop and soil health workshop March 4th, from 8:30 a.m. – 1:00 p.m. at the Madras COCC Campus, 1170 E. Ashwood Rd., Madras, OR.

Please RSVP by February 28th.

**lunch and refreshments provided**

**Agenda**

8:30am  **Sign-in and Coffee/Donuts**
9:00am  **Program Starts**
**Welcome and Introductions**  – Sam Rossi & Clare Sullivan
**Jefferson SWCD: Water Quality & Pesticide Stewardship Program**  – Sam Rossi
**NRCS: Soil Health Demonstration**  – Garrett Duyck & Nick Sirovatka
**OSU Extension: Highlights of Cover Cropping Trials**  – Clare Sullivan
**Working Session**  – everyone
**NRCS: Applicable Programs**  – Lars Santana
**Wrap up and Questions**  – Sam Rossi & Clare Sullivan
12:15pm  **Lunch Provided**

Sam Rossi

[https://www.jeffswcd.org/](https://www.jeffswcd.org/)
Time to Fertilize your Pasture?

Depending upon where your pasture is located, the time to fertilize your pasture, if you want to increase earlier forage production is approaching, or gone past…. That is if increasing earlier pasture forage production is important to your operation. Then you plan to fertilize at around 360 gdds for pasture. For higher nitrogen rates applied to hay fields, use 720 gdds for your application date. Check out the table 1, and then to follow along in the future, check out this web site: http://uspest.org/OR/. Use 32 degrees as your base temperature and use simple average for your growing degrees calculation, then pick your location, or as close to your location as you can get. But one has to take into account that even if properly coated urea is applied, too early, that do not lose it to volatilization until the irrigation water is turned on!

Table 1. Optimum time to fertilize pasture and grass hay T-Sum GDD’s based on 32 degrees F base temperature and “simple average” calculation for Christmas Valley, Bend, Powell Butte, and Madras Oregon representing different elevations across the landscape.

<table>
<thead>
<tr>
<th>Location</th>
<th>GDDS based on 32 degrees base temp As of February 20, 2020</th>
<th>Compared to 2019 32 degrees Base Temp</th>
<th>Compared to Long Term 30 Year Average 32 degrees Base Temp</th>
<th>Agrimet Forecasted Fertilize Pasture Date 360 GDD</th>
<th>Agrimet Forecasted Grass Hay Fertilize Date 720 GDD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christmas Valley</td>
<td>161</td>
<td>27 days ahead</td>
<td>28 days ahead</td>
<td>March 27</td>
<td>May 4</td>
</tr>
<tr>
<td>Bend</td>
<td>275</td>
<td>33 days ahead</td>
<td>33 days ahead</td>
<td>March 3</td>
<td>April 16</td>
</tr>
<tr>
<td>Powell Butte</td>
<td>307</td>
<td>33 days ahead</td>
<td>28 days ahead</td>
<td>February 26</td>
<td>April 9</td>
</tr>
<tr>
<td>Madras</td>
<td>373</td>
<td>42 days ahead</td>
<td>29 days ahead</td>
<td>February 15 Actual</td>
<td>March 29</td>
</tr>
</tbody>
</table>

Forecast date from February 21

Growing Degree Update for Other Crops

Table 2 focus is for different crops that use base temps of 41 and 50 degrees F and “growing degree” calculation to determine gdds. Forty-one (41) degrees is used for grass and alfalfa; any time the temp is above those base temps, those plants are growing, once growth has initiated. Fifty (50) degrees base temperature is used for corn, soybeans and grapes, once these crops have initiated growth.

Table 2. T-Sum GDD’s based on 41 and 50 degrees F base temperature and “growing degrees” calculation for Christmas Valley, Bend, Powell Butte, and Madras Oregon representing different elevations across the landscape.

<table>
<thead>
<tr>
<th>Location</th>
<th>GDDS Based on 41 Degrees Base Temp As of February 20, 2020</th>
<th>Compared to 2019 41 degrees Base Temp</th>
<th>Compared to Long Term 30 Year Average 41 degrees Base Temp</th>
<th>GDDS Based on 50 degrees Base Temp As of February 20, 2020</th>
<th>Compared to 2019 50 degrees Base Temp</th>
<th>Compared to Long Term 30 Year Average 50 degrees Base Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christmas Valley</td>
<td>123</td>
<td>25 days ahead</td>
<td>19 days ahead</td>
<td>21</td>
<td>24 days ahead</td>
<td>32 days ahead</td>
</tr>
<tr>
<td>Bend</td>
<td>117</td>
<td>24 days ahead</td>
<td>20 days ahead</td>
<td>19</td>
<td>21 days behind</td>
<td>34 days ahead</td>
</tr>
<tr>
<td>Powell Butte</td>
<td>153</td>
<td>32 days ahead</td>
<td>19 days ahead</td>
<td>29</td>
<td>28 days ahead</td>
<td>33 days ahead</td>
</tr>
<tr>
<td>Madras</td>
<td>191</td>
<td>47 days ahead</td>
<td>28 days ahead</td>
<td>39</td>
<td>39 days ahead</td>
<td>32 days ahead</td>
</tr>
</tbody>
</table>

41 degree base F temperature is used for grass and alfalfa when growing. 50 degree base F temperature is used for corn, soybeans, and grapes when growing.

Mylen Bohle
ASF Virus Can Stay Infectious Much Longer than Originally Thought

The researchers and veterinarians who created the fact sheet, *Holding Time Calculations for Feed Ingredients to Mitigate Virus Transmission*, have revised the necessary holding time upward when it comes to determining if the African swine fever (ASF) virus is sufficiently degraded in feedstuffs to potentially prevent transmission. Now, the recommendation is to hold conventional soybean meal an average of 125 days from when it is “born” or packaged, up from only 52 days found in previous research.

NCAT's Soil Health Innovations Conference – March 30-31

This inaugural conference will focus on innovations and technologies that serve to address the future of sustainable agriculture through better soil health practices. The location is Montana State University Campus in Bozeman, MT. Click [here](https://soilinnovations.ncat.org/) for additional information, or go to: [https://soilinnovations.ncat.org/](https://soilinnovations.ncat.org/)
ALB Now Soliciting Applications for Two Programs

1. Young Leaders program in Australia, July 1-3

The American Lamb Board (ALB) is seeking candidates to represent the United States in the Young Guns Leadership Program held in conjunction with 2020 LambEx in Melbourne, Australia. From the applications, which are due February 28, three candidates will be selected (between the ages of 22-40) to attend the program, which showcases the latest innovations from on-farm productivity to product quality. LambEx is Australia’s premier educational forum that features outstanding speakers and opportunities to network with all sectors of the lamb value chain.

Applicants must complete the written application no later than FEBRUARY 28, 2020. The application is available at https://americanlamb.wufoo.com/forms/w1q62tln0ppa6dm/ or by contacting the ALB office at 303-759-3001.

2. Local Lamb Funding Program

ALB is also soliciting applications from industry partners interested in promoting American Lamb in their local markets. The program is intended to fund events and promotions that educate consumers about the benefits and great taste of American Lamb. Examples include cooking workshops, farm or ranch tours, sampling at farmers markets, grocery stores or local events, and other educational demonstrations.

Applications are available at www.lambresourcecenter.com and must be submitted by March 31, 2019.

For questions and more information about either program contact the ALB office at info@americanlamb.com or 303-759-3001.  
Scott Duggan

Calendar

February

22  Small Farms Conference. Corvallis, OR  
Register at: https://blogs.oregonstate.edu/smallfarmsconference/  
24  Advanced High Tunnel Workshop. Redmond, OR. (see article)  
25  Crook County Stock Growers Business Meeting. Prineville, OR. (see article/flyer)  
27  Crook County SWCD’s Annual Paulina Landowner Workshop. Paulina, OR RSVP (541-447-3548)

March

4  Jefferson county Cover Crop & Soil Health Workshop. Madras, OR. (see article)  
5  COCC Continuing Education Courses – Irrigation. Bend, OR. (see article)  
20  COCC Continuing Education Courses – Landscape Professionals. Bend, OR (see article)  
21  Crook County Stock Growers Banquet. Prineville, OR. (see article/flyer)  
30-31  NCAT Soil Health Innovations Conference. Bozeman, MT. (see article)

April

4  COCC Continuing Education Courses – Drip Irrigation. Bend, OR. (see article)  
6-10  Washington State Shearing School. Moses Lake, WA. (see article)  
11  Washington State Advanced Shearing School. Moses Lake, WA (see article)  
12  Oregon Shearing School. Roseburg, OR. Roseburg, OR. (see article)

May

TBA  Jefferson County Irrigation Field Day  
TBA  Crook County Irrigation Field Day  
TBA  Deschutes County Irrigation Field Day  
TBA  Lake County Irrigation Field Day

OSU Crook County Extension  
498 SE Lynn Blvd  
Prineville, OR 97754  
Phone: (541) 447-6228

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 Kim Herber at (541) 447-6228, three (3) days prior to event date.