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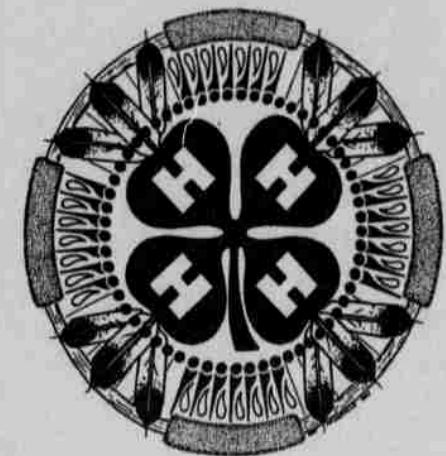
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The Oregon State University Extension Service staff is devoted to extending research-based information from OSU to the people of Warm Springs in agriculture, home economics, 4-H youth, forestry, community development, energy and extension sea grant program with OSU, United States Department of Agriculture, Jefferson County and the Confederated Tribes of Warm Springs cooperating. The Extension Service offers its programs and materials equally to all people.



The Clover speaks

by Sue Ryan
Warm Springs 4-H Program Assistant
 The year is starting off slowly for the 4-H Program. Here are some details on two regional events for 4-H members and leaders coming up in the months ahead.
 In late winter and early spring 1998, there will be offered two rounds of regional training sessions, one for Home Economics Leaders and Judges and one for Expressive Arts Leaders and Judges. The content of the training sessions is sufficiently different and it would be beneficial to leaders to attend both trainings if you work in both project areas.



Both new and experienced leaders and judges can expect to benefit from these training sessions. The skills portion of the training will focus on developmental stages of children and how those stages influence interview judging. Home Economics sessions will provide an overview of the upcoming curriculum changes which will affect all projects and how members, leaders, and judges can

become involved in the curriculum development process. Also provided will be very specific updates in each of the Home Economics projects, including 1998 State Fair changes, identification of new resources for leaders, and the new judging contest structure in clothing and foods.

Expressive Arts training will provide an opportunity for in-depth update in two of six break-out sessions. The Home Economics training is one joint training for leaders and judges, the Expressive Arts training focuses on leaders and judges for the first day and judges only for the second day. Anyone willing to pay the fee may attend the second day, but only as part of the two day package. Individuals who do not attend the first day will not be permitted to attend the second day, regardless of fee payment.

Individuals wishing to be listed on the Home Economics or Expressive Arts Judges Lists maintained by the State 4-H Office need to attend the appropriate training sessions. There have been significant changes in both project areas since the last regional leaders/judges updates several years ago.

These sessions will be very interactive and you will have structured opportunities during the training sessions to practice the new skills you are learning. Our office will receive regular updates listing the individuals preregistered for these trainings if you are interested in arranging car pooling. If there are enough (3-4 minimum) interested individuals from Warm Springs we can arrange for transportation from the 4-H office.

The Central Oregon trainings will be held: Home Economics - March 14th Bend - early bird deadline is February 14th. Expressive Arts - April 4 & 5 Bend - earlybird deadline is March 28th.

For copies of the registration forms stop by the 4-H office on the 1st floor of the Education Services Center.

Central Oregon Forage conference and trade show set

January 30 and 31, 1998
 Deschutes County Fairgrounds, Redmond, Oregon
 Trade Show: Howard Mayfield Bldg. - Conference: Lucy Miller Bldg. Trade Show Set
 Up Day: January 29
 (CCA and Pesticide Recertification Credits* have been applied for.)
 Friday, January 30
 7:00 a.m. Trade Show Set Up
 8:30 a.m. Trade Show Opens
 10:00 a.m. The Art and Science of Soil Fertility Recommendations for Forages (Sulfur, Potassium, Phosphorus, Nitrogen, pH, Micro-nutrients, Monitor, Nutrient Levels, Case Studies) - John Hart, OSU Extension Soil Fertility Specialist, Steve James, OSU Research/Extension Potato Agronomist, COARC, Madras, Rod Todd, OSU Extension Crops Agent, Klamath Falls, Mylen Bohle, OSU Extension Crops Agent, Prineville
 12:00 p.m. No Host Lunch (Food Booth Available)
 1:30 p.m. Irrigation Scheduling and System Checks - Jim Burr, OSU Extension Emeritus, Burr Ag Consulting, Bend
 2:00 p.m. Domestic and Export Hay Market Outlook - Bill Ford, WSU Extension Crops Agent, Pasco
 2:30 p.m. El Nino, Weather, and the Art of Making Hay - Eric Molstad, The Weather Center, Snoqualmie, WA
 3:00 p.m. Break
 3:30 p.m. Drying Hay in 1/2 of the Usual Time - Jeff McMorran, OSU Extension Crops Agent, Hermiston
 4:00 p.m. Measuring Forage Quality and Interpreting Test Results - Steve Fransen, WSU Extension Forage Specialist, Puyallup, WA
 4:30 p.m. Oregon Feed Library: The Quality of Local Hay - Ron Hathaway, OSU Extension Livestock Agent, Klamath Falls
 5:00 p.m. Adjourn
 5:30 p.m. Trade Show Closes
 Saturday, January 31
 8:00 a.m. Trade Show Opens
 9:30 a.m. Grasses for Hay and Pasture Update - Randy Dovel, OSU & Mylen Bohle, OSU
 10:00 a.m. Timothy Hay Production & Marketing - Tom Hoffman, WSU Extension Crops Agent, Ellensdale, WA
 10:45 a.m. Silage for Central Oregon: Methods, Quality & Pitfalls - Steve Fransen, WSU
 11:15 a.m. Alfalfa Variety Trial Results - Mylen Bohle, OSU And Randy Dovel, OSU
 11:45 a.m. Update from COARC - Clint Jacks, Superintendent, COARC, Madras
 12:00 p.m. No Host Lunch (Food Booth Available)
 1:30 p.m. Long Term Weed Control in Alfalfa* - Mylen Bohle, OSU & Randy Dovel, OSU
 2:30 p.m. Weed Control for Hay and Pasture Panel* - Wilbur Ellis Co., Madras, Cenex Supply, Madras, Round Butte Seed Growers, Madras
 3:00 p.m. Break
 3:30 p.m. Trade Show Ends
 3:30 p.m. Ground Squirrels, Gophers, and Rock Chucks* - Doug Freeman, RCO, Junction City
 4:30 p.m. Rodent Control Panel* - Doug Freeman, RCO, Ed Nikolaus, Wild Life Services, Perry, Watson, ARC
 5:00 p.m. Adjourn
 Trade Show Free to Public
 Conference Fee: Non Members - \$5/day, COHGA Members - Free
 For More Information Call (541) 447-6228 (Prineville)

Psychology grants available to Indian students

by Dr. Marie L. Miville
Oklahoma State University

The Indian Health Service has granted Oklahoma State University a \$210,000 grant to train American Indian people as doctoral level psychologists. The program, American Indians Into Psychology, is a collaborative program coordinated among the counseling, clinical, and school psychology programs at Oklahoma State. AIP will consist of two primary components:

1) an 8 week summer mentorship program that will allow participants to be involved in both clinical and research settings as well as be trained in concrete aspects of applying to graduate school (writing a vita, writing a statement of purpose, applying for grad school) and other professional issues.

2) assistantships for American Indian students admitted to any of the above doctoral programs which will involve some kind of practicum placement working with American Indian clients.

If you know of any students (either bachelor or masters level) who might be interested in either of these programs have them contact me at (405) 744-9453. The deadline to apply for this program is February 15th.

4-H: More Than You Ever Imagined.

Following winter is Spring!

from the Winter 1998 High Desert Gardening newsletter, a Publication of the Central Oregon OSU Extension Service

Winter means a whole new batch of garden catalogs is on its way to your mailbox. To help narrow your choices for the coming gardening season, consider trying some flower varieties recommended by ALL America Selections(AAS) and the National Garden Bureau.

Both organizations review new varieties after testing programs and recommend those with merit to the gardening public. The Central Oregon Master Gardeners maintain an All-America Selections Display Garden at Kalama Park in Redmond, which is open to the public.

Impatiens Victorian Rose (AAS 1998) is the first impatiens with consistently double flowers; plants may be covered with blooms. The old-fashioned rose color is a soft, muted tone that combines easily with other annuals. Shade and water are all that's needed to grow it successfully. Good in containers. In Central Oregon, try to locate impatiens in a warm shady part of the yard, or consider planting in containers.

Petunia Prism Sunshine (AAS 1998) has a creamy yellow color that neither fades nor blushes pink under stressful garden conditions. Deep green foliage contrasts with the large blossoms. iPrism Sunshine thrives in full-sun gardens and may spread from 15 to 20 inches depending upon available nutrients, light, and moisture. Good in containers. OSU Master Gardeners found that this variety blossomed prolifically in their garden in Redmond.

Linaria Fantasy series was bred to be dwarf with a compact body. It is a cool-season crop that does not like summer heat, but will grow year round in mild areas. Slows down in mid-summer. It is weather-tolerant

and especially effective in mass plantings. The series includes magenta rose, speckled pink, blue, yellow and white.

Zinnia Oklahoma Mix is a medium-sized plant that has very bright colors and is a heavy producer all season long. Great for bedding plants and cut flowers. Most flowers are fully double with some semi-doubles. In trials, Oklahoma Mix proved to be less susceptible to powdery mildew. Sunflower iCrimson Thrilleri is loaded with six-inch mahogany red blooms. A sturdy, carefree plant, as most sunflowers are - it grows to five feet tall and bears flowers on multi-branched stems. Outrageous in bouquets, mixed with sunflowers of other colors.

Begonia Eureka is a new, vigorous series, designed for superior garden performance. Available in a range of green and bronze leaf colors. Fills beds with color more fully and quickly than others. Thrives in tough weather, heat and humidity, in sun and shade. Note: begonia is sensitive to frost.

Pansy Delta Tapestry has lots of large flowers for fall and spring planting. Flowers of rose, pink, apricot, primrose and cream, all with dark faces. iBaby Bingo has more blooms per plant than other pansies. Very heat tolerant, these outstanding garden performers also overwinter well. Plants are compact and well-branched. Pansy is a good choice for the early season and cooler high elevation sites.

Trachelium Passion in Velvet is normally known as a commercial cut flower, but it has been successfully transformed into a pot or bedding plant. It produces masses of graceful, exquisite violet umbels 5-6 inches in diameter, on plants that grow only to a height of 12 to 14 inches.

Columbine Cameo flowers in four-inch pots, then may be planted as a fully hardy perennial. Its silver-green, compact foliage adds beauty to the garden. They are easy to grow and a pleasure to have around.

Hay growers sponsor forage conference, trade show

by Mylen Bohle
OSU Crook County Extension Service

Every year the Central Oregon Hay Growers' Association (COHGA) and Oregon State University Extension Service sponsor the Central Oregon Forage Conference and Trade Show. The eighth annual conference and trade show will be held at the Deschutes County Fairgrounds, Redmond, OR on Friday and Saturday, January 30 and 31, 1998.

The Trade Show admission is free to the public and runs from 8:30 a.m. to 5:30 p.m. on Friday, and from 8:00 a.m. to 3:30 p.m. on Saturday. The trade show, showcases the newest forage varieties, equipment, and other agricultural products. Some of the vendors in the past, and scheduled for this year, include: seed companies, farm implement companies, fertilizer dealers, ag organizations, government agencies, pest control companies, irrigation companies, parts repair, and travel agencies. There will be door prizes given away daily.

Conference admission fee is five (\$5) dollars/day for non members, and COHGA members will be admitted free. There will be free coffee, and there will be a food booth vendor available both days. Lunch breaks will occur from noon to 1:30 p.m., with half hour coffee breaks, every afternoon.

The Friday morning session starts at 10:00

a.m., and runs until noon, and will feature a mini-workshop on the art and science of soil fertility management for forages: (nutrient management of nitrogen, phosphorus, potassium, sulfur, pH, micro-nutrients, monitoring levels, and case studies).

The Friday afternoon session will begin at 1:30 p.m., and will feature presentations on: irrigation scheduling and systems checks, domestic and export hay market outlook, El Nino, weather, and the art of making hay, drying hay in half of the time, measuring forage quality and interpreting test results, Oregon feed library: the quality of local hay.

Saturday morning, the trade show kicks off at 8:00 a.m. with the presentations starting at 9:30 a.m. Presentations will include updates on forage research from the Central Oregon Agricultural Research Center (COARC) and the Klamath Experiment Station. Updates will include: alfalfa varieties, and grass species and varieties for pasture and hay, and an update on COARC. Other morning presentations are: timothy hay production and marketing, and silage for central Oregon: methods, quality, and pitfalls.

The Saturday afternoon session begins at 1:30 p.m. and will feature 4 presentations that will have pesticide recert credits available for pesticide license holders. Presentations will be on; long term weed control in alfalfa, weed control for pasture and hay panel, ground squirrels, gophers, and rock chucks, and a panel on rodent control.

The speakers are researchers, extension specialists and agents, agribusiness reps and fieldmen, from central and western Washington, and eastern, central, and western Oregon. CCA credits have been applied for.

The COHGA is a group of concerned producers, agribusiness representatives, researchers, extension agents, and government personnel who are dedicated to promoting the forage industry. COHGA finances the conference and trade show.

For information on trade show vendor space, membership with COHGA, or any other conference information, call (541) 447-6228 in Prineville.

STOCKMAN'S ROUNDUP: Designing your grazing system



by Bob Pawelek
OSU Livestock Agent

If you have livestock, you already have a grazing system of some kind. It might be one pasture you use all the time. That's a system, alright. But to be efficient in management of livestock, you should remember that any grazing management problem usually has many possible solutions and very few things you can do are "right" or "wrong." Most of all, no one grazing system is best. To be successful, you will need to creatively combine a few principles into a grazing plan designed specifically for your operation's unique circumstances: Timing. Avoid repeated grazing during critical stages of plant growth. This is when plants are starting new leafy tissue. This includes new growth in the

spring or fall and midseason regrowth after grazing. Frequency. If given an opportunity to regrow and replenish its energy stores, a plant can be grazed several times during one growing season. But that plant needs time to regrow. Avoid grazing too often during a single growing season. Severity. Avoid removing too much of a plant's leaf area. If too little leaf area remains after grazing, the plant will be unable to regrow and replenish its energy reserves. Season. Crested wheatgrass can cope with grazing an area at the same time of year, year after year. But varying the season of grazing from year to year is recommended for most kinds of plants. Type of Cattle. Graze the type of cattle best matched with the kind of forage available and its nutritional quality. For example, dormant forage will not meet the high nutrient requirements for growing yearlings. You should also match the type of cattle to your topography. Cows with calves, for example, usually will not use steep topography as fully as dry cows or yearlings. Texas Longhorns work best for verticle pastures. Cattle raised on flat, open grasslands usually do not adapt well when relocated to steep or timbered grazing lands. An animal's previous grazing experience should also be considered when purchasing new animals. This is because cattle unfamiliar with the kind of plants in a pasture usually will not perform as well as cattle that previously have grazed similar forages. Number of Cattle. Too many animals will cause cattle performance to decline, but the soil and vegetation will have deteriorated before animal performance begins to suffer. Cattle Distribution. Prevent

large numbers of cattle from congregating, especially on sensitive areas such as along streams. If cattle are causing soil or plant damage, it is often a problem of poor animal distribution rather than too many animals. Grazing Selectivity. Cattle make choices and select those plant species and plant parts they find the least objectionable. Grazing systems can affect the extent to which cattle are allowed to graze selectively. The best individual animal performance will result when cattle are allowed to be the most selective in choosing their forage. Individual animal performance will drop below maximum whenever cattle are forced to graze less selectively. Non-selective grazing is appropriate when the objective is to prevent plants from becoming too coarse or "wooly." Cattle generally perform better under less intensive grazing systems, whereas forage plants are usually healthy under slightly more intensive grazing systems. Because the conditions and objectives of your operation are unique, the economic outcome of a new grazing system can't be precisely known until after it is implemented. Therefore, be cautious when considering economic projections of changes to your grazing plan. Good grazing systems develop conditions for soil and vegetation improvement. Several years may pass, however, before any improvement is very noticeable. Flexibility is critical. Manage your pastures and animals according to the varying plant, animal, and economic conditions that exist, not according to specific calendar dates or pasture rotation schedules. You're the key to success. If it's your grazing plan, then it's up to you to make it work.

Farm Fair set for February 4 and 5

by Marvin Butler
Jefferson Co. Agricultural Agent

The 1998 Central Oregon Farm Fair and Trade Show will be held February 4th and 5th at the Jefferson County Fairgrounds. The four, two-hour sessions of educational programming will provide recertification credit for pesticide applicators. Topics will include agricultural issues affecting growers in central Oregon, as well as production information and research reports on sugar beets, grass seed, and peppermint.

The sugar beet session will focus on sugar beet fertility. John Hart, OSU soil specialist, will discuss the results of local fertility trials. Alan Blaylock, with Agrium out of Denver, Colorado, will discuss his research and experience with sugar beet fertility while working with the University

of Wyoming. This should provide the basis for a good exchange of ideas.

The event is sponsored by the Jefferson County Seed Growers, Central Oregon Sugar Beet Growers, Central Oregon Peppermint Growers, and OSU/Jefferson County Extension. About 50 exhibitors, providing a wide array of agricultural services and equipment, attend the Trade Show. Free refreshments and great luncheons are provided by the Farm Bureau Women.

The Central Oregon Farm Fair and Trade Show is always a welcome social event, as well as a great opportunity to see the latest in agricultural equipment and services, get updated on issues affecting agriculture, and hear research reports on crops grown in Central Oregon.

Second calving school offered

by Clint Jacks
Jefferson County OSU Extension Service

The Oregon State University Extension Service will be sponsoring an additional calving school in Central Oregon on Wednesday, January 28th. The first calving school was filled and this second school will allow those individuals on the waiting list plus others an opportunity to attend this year. NorStar Cattle Company of Willowdale will host this one day school. The calving school is sponsored by the OSU Extension Service in cooperation with Central Oregon County Extension offices, the OSU Department of Animal Science and the OSU College of Veterinary Medicine.

Enrollment is limited to 12 individuals. Individuals interested to attend...

to register at their earliest convenience. The school will be filled on a first registered basis. The registration fee is \$40.00. To register contact the Jefferson County Extension Office at 34 SE D Street in Madras or call 475-3808.

The calving school is designed to meet the needs of the novice producer as well as the producer with a lifetime of experience. Hands-on learning is the focus of these one-day schools. Topics for discussion will include: Third Trimester Management and Nutrition; Sire Selection Based on EPDs; Health Programs - Prebreeding to Third Trimester; The Birthing Function; Calving Equipment and Its Proper Use; Handling Abnormal Births; Post-Calving Management; and Handling First Calf Heifers. The school is set up to occur during the calving so as to provide hands-on experience.