

Heppnerite candidate for PSU degree

Sally Marie H. Sumner, graduate of Heppner High School is among some 350 baccalaureate degree candidates eligible to participate in Portland State University's summer commencement exercises, scheduled for 4:30 p.m., Thursday, August 15, in the Park Blocks area in front of Smith Memorial Center on the PSU campus.

Dr. Joseph C. Blumel, University president, is scheduled to confer the degrees and preside at commencement.

W.C.C.C. Golf



Ladies Duffers

Wednesday, Aug. 7
 Low gross - Lota Tibbles
 Least putts - Beth Bryant
 Hidden No. - Doll Campbell
 Most specks - Betty Christman

Study seeks high voltage effects on plants and animals

One hundred cows, all with calves, graze placidly near Grizzly Mountain, their four corrals separated by plots where alfalfa and wheat will grow. Two spans of a high voltage, direct current (500 direct current (500-kilovolt) Bonneville Power Administration line, the most powerful commercial line in the United States, stretch above them.

The animals and plants are keys to a high voltage, direct current agricultural study. The \$1.43 million project was planned and is being carried out by Oregon State University scientists with the help of BPA.

"We want to determine the potential effects of the 500-KV transmission line on production and reproduction of cattle," said Robert J. Raleigh, OSU animal scientist who heads the project sponsored by BPA and eight other power systems. "The primary objective of the plant study is to determine if the line affects plant growth, health and reproduction."

One hundred other cows and their calves are in four identical corrals about a quarter mile away from the BPA lines which send power from Bonneville Dam to the Los Angeles area. Unaffected by the power lines, their measurements will be the basis to measure effects of the power lines on the other set of cattle.

"No harmful effects from the lines are expected, based on operating experience with direct current lines and results of biological research with direct current fields and air ions," said Raleigh. "The project was needed because research directly applicable to such power lines is limited."

The 320-acre project area is on the Crooked River National Grassland, which is administered by the Ochoco National Forest. The site is 12 miles southeast of Madras, two miles east of Highway 26 and about 20 miles north of Prineville.

"The study is the first and biggest agricultural study under DC power lines," said Raleigh, who also directs the animal research. "There have been several studies with alternating power lines which showed no effect on livestock or crops."

The range cattle wear coded ear tags for visual identification. Their location in the corrals is recorded twice a week to see if there has been any behavioral changes.

"And, once a month, for a 24-hour period, we record behavior in the corrals every 15 minutes," said Raleigh. "Noise, electric activity, ion activity, all are measured. We also have a night-viewing device to observe ion activity near the wires."

Other cattle measurements will help determine conception rate, calving interval, calving ease, percentage calves born, percent calves weaned and weaning weight, said Raleigh, who does research at OSU's Eastern Oregon Agricultural Research Center at Burns and formerly was superintendent of the center.

Each fall, the calves will be sold and the cows will be bred again, giving three years of reproduction information.

Fred Crowe, superintendent of OSU's Central Oregon Agricultural Experiment Station at Redmond, is in charge of the plant study. He is planting wheat and alfalfa in plots between the corrals under the power lines and between the corrals in the control section and will have two years of plant data.

BPA is conducting an electric study at the site, monitoring electric charge and ion behavior.

Martin Schott, research associate, and his wife, Sallie, live on the site. Five OSU research assistants also are members of the project team.

In addition to BPA, sponsors are the Southern California Edison Co., Rosemead, Calif.; Western Area Power Administration, Golden, Colo.; Houston Lighting and Power Co.; Pacific Gas and Electric Co., San Francisco; Los Angeles Department of Water and Power; Salt River Project, Phoenix, Ariz.; Central and Southwest Services, Inc., Dallas and Empire State Electric Energy Research Corp., New York.

Engagements

Devine-Jensen

Patricia A. Devine and Charles D. Jensen, both of Pendleton, announce their engagement and approaching marriage.

Miss Devine is the daughter of Jim and Barbara Bloodworth, Heppner, and Jim and Vicky Devine, Madras. She is a graduate of Heppner High School and attends Blue Mountain Community College where she is also an aerobic dance instructor.

Jensen is the son of William and Betty Keating, Pendleton, and Robert and Evelyn Jensen, Pendleton. He graduated from Pendleton High School and Oregon State University. He is a partner at Morrison, Fife, Kimball and Jensen, a local accounting firm.

An August 31 wedding is planned at the United Methodist Church in Pendleton.

Cecil pair mark 25th

A no-host potluck picnic and reunion at The Dalles Dam Sunday, August 18, will help George E. and Ruby (Padberg) Miller, The Dalles, celebrate their 25th wedding anniversary. Both were born in Morrow County and still own a wheat ranch at Cecil. All area friends and relatives are invited to join the celebration.

The only access to the picnic area, says Mrs. Miller, is by way of the free tour train which leaves every half hour from 10 a.m. - 4:30 p.m. To find the train depot, take freeway I-84 Exit 87 and follow the signs, she says. The picnic will begin at 12 noon.

The couple requests no gifts.

News from the Neighborhood Center

By NEOLA MACKAY

The Women, Infants and Children's clinic will be held regularly at the Heppner Neighborhood Center on the third Friday of each month from 10 a.m. - 12 noon and from 1-3 p.m. Clients are urged to keep their Friday, August 16 appointments within 15 minutes of the time on their appointment cards.

The next cheese giveaway will be Thursday, August 29. Proof of address is again required; utility bills or rent receipts will suffice. New federal guidelines have been

set at \$569 per month gross income for a one-person household, \$764 per month for two persons; \$959 per month per three person households.

Those who will be unable to pick up cheese may send a signed note designating someone else to pick up cheese for them. Proof of address must accompany the note.

Adult and Family Services counselor Janet Phillips will be at the Neighborhood Center Wednesday, August 21 from 9 a.m. - noon. Food Stamp applications are available at the Center office anytime during office hours.

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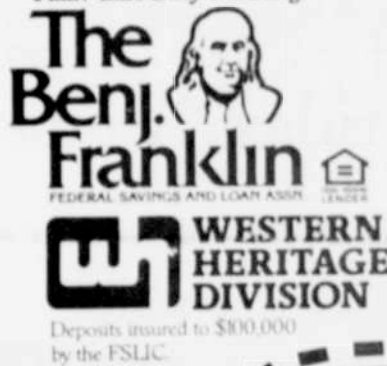
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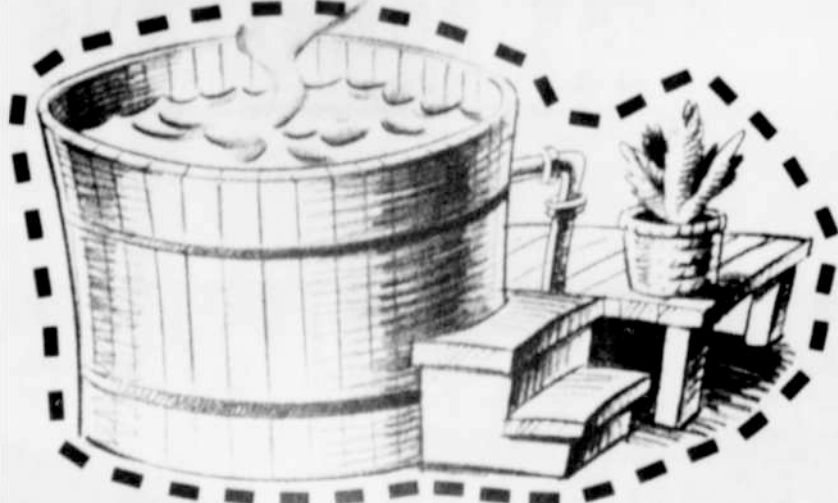
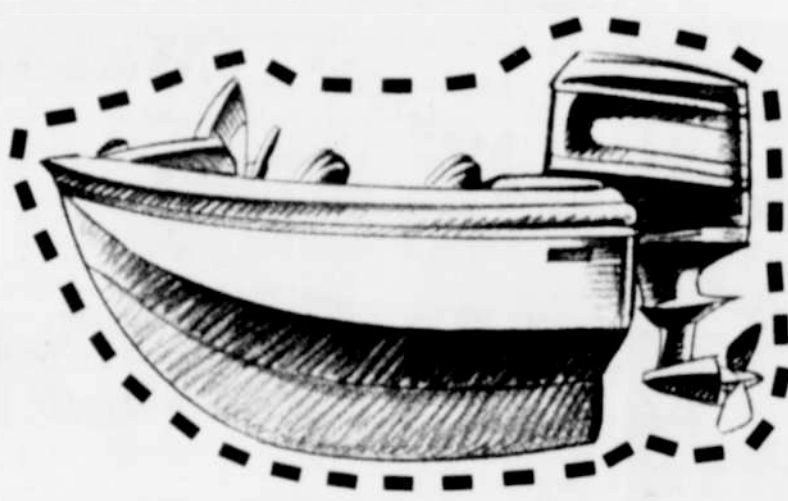
To back this program, we've set aside \$6 million just for the residents of Central and Eastern Oregon. Demonstrating our commitment to the local economy. A commitment that has grown even larger since our merger with Western Heritage Savings.

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