

**Forage Elements
Effect Nutrition
Of Cattle, Lambs**

A diet that lacks copper or has an excess of molybdenum can cause a serious nutritional disturbance in cattle and lambs, research of the Oregon State College agricultural experiment station shows.

Copper is necessary in forage crops so animals will utilize iron to form sufficient quantities of haemoglobin, the red pigment of the blood. An excess of molybdenum interferes with the animals' use of copper.

Dr J R Haag, professor of agricultural chemistry, said fortunately, excess molybdenum levels appear largely to be confined to specific marshy grazing areas.

Symptoms in cattle of this nutritional deficiency may include lack of thrift, discolored hair coats, scouring and broken bones. When a black sheep has a copper deficiency, the color and crimp of the wool both disappear.

This deficiency was uncovered by checking the levels of copper in the animals blood and liver. The deficiency may be either a lack of copper, an excess of molybdenum or both.

Some 1,500 pairs of blood and liver samples were studied in

Oregon in order to obtain evidence of the impact of regional facts on this nutritional deficiency. Different patterns of blood-liver relationships were found in Astoria, Squaw Butte and Klamath areas.

The molybdenum content was found to be most potent in the more succulent, young forage crops. When hays mature, the molybdenum content goes down. No serious problems have been encountered in any feedstuffs entering the market.

Molybdenum does not show any marked tendency to accumulate in eggs, meat or milk, Dr Haag emphasized.

To maintain the proper amount of copper in forage, copper may be applied as a fertilizer in parts of the world. This method has not met with much success in Oregon, Dr Haag said.

Three ways the copper level can be increased in cattle or sheep is to mix it in the feed, put it in the salt, or, in an emergency, inject it into the animal.

IONE NEWS

A group of friends held a surprise charivari party in honor of Mr and Mrs George Miller on Sept 17 at their home. There were 31 present.

**OSC, WSU, Idaho
Start New Series
Of Ag Bulletins**

A joint series of regional agricultural research bulletins has been started by Oregon State College, Washington State University, and University of Idaho agricultural experiment stations and the Agricultural Research Service, U S Department of Agriculture.

The three states share many agricultural conditions and problems, OSC's Dean of Agriculture F E Price pointed out, making cooperative publications both more practical and less expensive than separate bulletins issued by the various states.

First publication issued in the new technical-bulletin series is "Effect of Cropping Practices on Yield, Soil Organic Matter and Erosion in the Pacific Northwest Wheat Region."

It summarizes soil management experiments conducted over about 40 years at six research stations in the Northwest wheat region. Studies show that nitrogen is the most important nutrient affecting yields of cereals in this region. Effects of crop rotations, use of organic material, and runoff and erosion factors also are reviewed in the 30-page bulletin.

Staff members from the three universities and U S Department of Agriculture scientists working in the Northwest cooperated in preparing the publication. Copies are available from county agent offices in the three states or from the bulletin clerk, Oregon State College.

A similar joint series of extension service bulletins in agriculture and home economics has been issued the past 10 years and has proved to be very successful, Dean Price stated. Nearly 40 cooperative bulletins have been issued for the three states to date in that series.

IONE NEWS

Mr and Mrs Ralph Kincaid are the parents of a son born Sept 13 at the St Anthony hospital in Pendleton. He has been named Ralph Earl. Grandparents are, Mr and Mrs George Miller Cecil, and Mr and Mrs Vic Stockard of Stanfield. Great-grandparents are, Clara Kincaid, Lewis Padberg, Mr and Mrs R H Stockard of Echo, and Mr and Mrs Leonard Maurus of Wasco.

Mr and Mrs George Miller and Lewis Padberg traveled to Kennewick Sunday to visit Mr and Mrs Leslie Roundy and family and help Mrs Roundy celebrate her birthday.

One hundred eighteen children and teachers attended the promotion Sunday at the Ione Community Church Sept 25. Mrs Fred Martin, church school supt introduced the teachers who then introduced their classes. The primary teachers were introduced by Mrs Walter Roberts and they introduced their pupils. Approximately 71 children were promoted. The teachers of the Sunday school for the year were Mrs Walter Roberts, Mrs Robert Rietmann, Mrs Bill Rietmann, nursery; Mrs Earl McCabe and Mrs James Barnett, beginners; Mrs Delmer Crawford, kindergarten; Mrs David Rietmann, Mrs Phil Emert, and Mrs Gil Lujan, primary; Mrs Jack Barak, and Mrs Eulenna Corley, Jolly Junior class; Mrs Charles Hudson and Mrs John Proudfoot, Junior class; Mr Garry Tullis, and Mrs Robert Jepsen, Intermediate; Mrs Norman Nelson high school. Mrs Robert DeSpain and Mrs Pete Cannon have charge of the cradle roll.

USE GAZETTE TIMES CLASSIFIED ADS

**HUNTERS
WELCOME!**

SAVE \$2.00 ON NEW "SQUARESHOOTER" HUNTING JACKET

HOLDS 24 SHELLS ANY STANDARD GAUGE - SORTED BY SHOT SIZE.

ZIPPER FRONT, SIDE POCKETS, EXPANDING GAME COMPARTMENT.

TOUGH, LIGHTWEIGHT IMPREGNATED NYLON - OLIVE DRAB COLOR.

BLOOD AND WATERPROOF.

THE MOST PRACTICAL WAY TO CARRY SHELLS AND GAME. A UNIQUE AND LASTING GIFT.

ALTICK SALES CO. BOX 512, OSWEGO, OREGON ENCLOSED \$7.95, SHIP C.O.D. SIZE: S, M, L, XL. SEND TO:

SATISFACTION GUARANTEED! LIMITED TIME OFFER. ORDER TODAY.

**INTRODUCTORY
OFFER \$7.95
REG. \$9.95**

AUTOMATICALLY FEEDS ONE SHELL AT A TIME - EVEN WITH GLOVES



FINAL HOME GAME!

THE **Heppner Ponies**

GALLOP AGAIN!

HEPPNER -vs- BOARDMAN

8-MAN FOOTBALL

Thursday, Sept. 29

RODEO FIELD - 7:30 A. M.

Adults - 50c
High School Students - 25c

THE MORROW COUNTY
LIVESTOCK GROWERS ASSN.
ANNOUNCES A SPECIAL

Morrow County Day

IN COOPERATION WITH
Northwest Livestock Commission Company

Tuesday, October 25

Morrow county cattle will be sold first on this special day. Contact N. C. Anderson, Heppner for further information and to list your cattle for the sale.

HEAD FOR PECK'S AND
**RUSH IN FOR BEST FOOD
VALUES**

NEW MAXWELL HOUSE DRIP OR REGULAR
COFFEE \$1.05
2 lb. 1

LOG CABIN SYRUP, 48 oz. \$1.05
VIENNA SAUSAGE 5 cans \$1.00
REGULAR JELLO 3 pkgs. 25c
PORK & BEANS, Campbell's 2 1/2's 5 cans \$1.00
SONNY BOY DOG FOOD, lb. cans 13 cans \$1.00
PEANUT BUTTER, Assorted Brands 1 lb. 49c
2 lb. 89c; 3 lb. \$1.29
ASSORTED JAMS, 4 1/2 lb. \$1.29

Any Brand
SUGAR
10 LB. BAG
98c
Limit 1 To A Family

ANY KIND - PILLSBURY
Cake Mixes 4 for \$1

Occident FLOUR For Miracle Baking
5 LBS. 50c
10 LBS. 95c
25 LBS. 1.85

SONNY BOY 46 OZ.
Tomato JUICE 5 cans \$1.00

LARGE EGGS 3 doz. \$1.49
Farm fresh

PANCAKE FLOUR 4 lbs. 49c
Hungry Jack

MEAT SPECIALS
ASSORTED LUNCH MEATS BOLOGNA LB. 59c

— FRESH PRODUCE —
WATER MELONS 2c
POUND

U. S. No. 2
POTATOES, 10 LBS. 39c
Red Ripe Delicious
APPLES 2 LBS. 29c

ELDRIDGE 1/2 OR WHOLE
Hams lb. 53c

ELDRIDGE & SWIFT'S PREMIUM CHOICE
SLAB BACON LB. 49c

THESE SPECIAL PRICES GOOD THURS.-FRI.-SAT.

Peck's Grocery
PHONE 3-8133 LEXINGTON