



## CATTAILS -- TULEES DIE NOW!!



APPLYING DOWPON - BEFORE



DEAD CATTAILS  
AFTER APPLYING

**DOWPON  
MEANS  
MORE  
WATER  
FASTER**



**Hate Weeds?**

**SEE ME**

*Sales and Service*

*To Help You Make It Work*

**J. W. Kerns**

Jim O'Donahue  
Klamath Falls,  
Oregon

**Spray Center**

Ed Greene  
Tulelake,  
Calif.

You can depend on DOW AGRICULTURAL CHEMICALS

## Livestock Leader Sees Big Market Gains For Oregon As Well As Bigger Change Soon

OREGON STATE COLLEGE — The West Coast has imported livestock and livestock products from the Midwest at an increasing rate in recent years, but western producers can recapture some of this market, believes Dr. J. C. Miller, head of the Oregon State College

department of dairy and animal husbandry.

Increased production of feed grain and hay is giving West Coast producers a chance to regain some of this market if they make full use of technological advances in production and feeding, Miller said. And since this is Oregon's Centennial year, he suggested it might be a good time to look at what's ahead for livestock generally throughout the state.

Among the more notable changes of recent years are the growth of livestock feeding outside the Cornbelt, particularly in the West; an increase in size of production units; rapid expansion of beef cattle and poultry and the decline in sheep and dairy numbers; and the complete replacement of horses and mules as sources of farm power.

The entire livestock and feed industry has seen a tremendous increase in use of labor-saving

equipment. Production per man has doubled since 1940, total feed crop production has increased 40 per cent, more than 90 per cent of total livestock transport is by truck, and value of livestock and livestock products marketed has climbed to 60 per cent of the total agricultural income.

Cattle numbers, although increasing, haven't kept pace with population increases on the West Coast. And sheep and hog numbers have decreased almost 50 per cent since 1940. These figures explain the increase in shipments of livestock and their products from the Midwest, Miller said.

Although the future and all changes it will bring cannot be accurately foretold, he says we can be sure that livestock producers who meet the competition in years ahead will be those who keep cost of production low enough to show a profit on their operation.

This inevitably means larger and fewer units, more automation, standardized products designed to meet consumer preference, and more integration in animal agriculture, Miller pointed out. Much greater use of existing advancements discovered by both basic and applied research will be needed in the immediate future if Oregon livestock men are to meet this challenge, he added.

For example, artificial breeding will approach 100 per cent in dairy cattle and become commonplace in all classes of livestock. Greater use will be made of hybrids and crossbreeding in all commercial livestock production, and red meat or lean-fat ratio will replace "fattening ability" in selection of meat animals.

Today's top feed conversion figures will be tomorrow's averages. Commercial hog production will follow the pattern of automation, integration, and confinement set by the poultry industry. And new and revolutionary developments in harvesting and processing forages will be used.

Methods of handling livestock to prevent and eliminate loss from stress will be refined, and orderly marketing will reduce weekly and seasonal fluctuations in receipts and prices. Large commercial, dry lot dairy herds will increase in number.

These changes and others will come from principles and techniques already known. But discoveries yet undreamed of will bring out more changes, Miller said. New feeds unknown today will become important sources of protein and energy tomorrow. Sea water will provide a source of minerals, and algae and molds will play a far greater role in livestock nutrition and health.

Future progress in animal science is largely dependent on basic research in the pure sciences, Miller stressed. He said the rate at which changes come and the stability of the livestock industry will depend in large measure on research efforts.

### Now Is the Time to Immunize Your Stock



**Vaccines, Medicinals  
and Supplies for  
Cattle, Horses, Sheep  
Hogs and Poultry**

Our LIVESTOCK DEPARTMENT  
is designed to Save and Serve.

**VACCINE  
AND  
LIVESTOCK  
SPRAY**

Your One Stop Shopping  
Center

We Give 2-X Green Stamps

**MERRILL  
PHARMACY**

Merrill, Ore. Ph. 2451

### Own a 'Jeep'?



Authorized parts, sales  
and service for all —  
'Jeep' vehicles

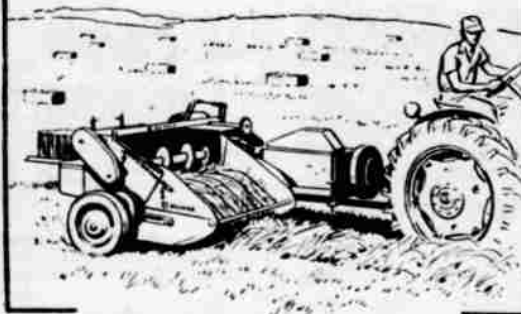
**BASIN MOTORS**  
424 So. 6th TU 4-7778

### OLIVER 60-T and 60-W

Twine-Tie and Wire-Tie

**BALERS**

All-Around Tonnage Champs  
with "Pivot-Balanced" Drive



Match a new Oliver—twine-tie or wire-tie—with any other machine in your small, rough, patch-pattern fields. There's where it gobbles up the windrows, bales up to ten tons per hour as easily as on the straightaway.

You get Oliver's exclusive "pivot-balanced" drive...and exceptionally short coupling. Just follow the windrow with the rear tractor wheel—even around the sharpest corner. Your Oliver gets the hay... saves hours of time when time counts most.

Here are balers with everything: new, leaf-saving pickup... swinging drawbar for safe transport... overrunning clutch (extra)... protective devices for all important units. You can adjust bale length in seconds—from 12 to 50 inches. Twine- and wire-tying units are easy to interchange, and an engine (extra) is easy to mount when desired.



**Fred E. Barnett Co.**

600 Spring St.

Phone TU 4-5153

## Canada Has Difference

OTTAWA (UPI) — Planning to visit Canada this summer?

If you travel by car, remember that Canada uses the "imperial gallon," which is 20 per cent bigger than the U.S. gallon. Remember, also, that the U.S. dollar is valued at slightly less than the Canadian dollar, based on the Wall Street rate of exchange, which is determined by the law of supply and demand.

American travelers will find it convenient to obtain Canadian funds from their bank before entering Canada, thereby saving the bother of making calculations when spending money.

In Canada, only the major cities provide night clubs. Montreal has more nightspots in proportion to its population (1,700,000) than any other city in North America.

Don't think everyone in Canada speaks English. Residents in most of Quebec province, parts of New Brunswick and Ontario, speak French. Elsewhere, English is spoken.

The national holiday in Canada is Dominion Day, July 1.