

Water Forecast Brightens Outlook For Malheur County Farm Irrigation

Heavy rains and snows throughout eastern Oregon during March have brightened the irrigation water outlook for Malheur county farmers, boosting expected summer streamflows by 20 to 25 percent over earlier forecasts.

Oregon snow survey supervisor W. T. Frost, irrigation forecaster for the Soil Conservation Service and Oregon State college experiment station has upped the water outlook for all streams and reservoirs in this area since his official forecast at Vale, March 7.

Frost reported this week that latest snow cover measurements show the Owyhee watershed 7 percent above average and only 3 percent under 1956. On March 7, Frost rated the watershed only 67 percent average. Averages are based on the 15-year period from 1938 through 1952.

The Malheur watershed is up to 92 percent average, 10 percent over the 1956 reading at this time of year. Frost reported only 63 percent of average for the watershed at the March 7 meeting.

Reservoir water for the area also increased greatly during the past month, Frost noted. The Owyhee storage has risen from 632,000 acre feet since March 1 to 696,000 on April 1, more than 100,000 a.f. above average for this time of year.

Warm Springs reservoir with 191,000 a.f. capacity is now full compared to average holdings for April 1 of 121,000 a.f. The reservoir held 157,000 a.f. on March 1. Agency Valley reservoir is now only 1,000 a.f. short of its 60,000 a.f. capacity and could fill any time, Frost said. Average storage on April 1 is 49,800 a.f.

Frost says reservoirs should end the irrigation season with good carryover supplies for 1958. While no April figures are available for Willowcreek and Antelope reservoirs, Frost stated that supplies should be adequate for all needs. Small reservoirs and stock ponds are also reported filled.

Latest forecasts for summer streamflow point to 400,000 acre feet for the Owyhee river from April through September, 87 percent of average.

On March 7, Frost forecast Owyhee flow at only 53 percent of the 15-year average.

Flow for the Malheur Drewsey is now forecast at 94,000 a.f. for the next six months, 15 percent above average. The North Fork of the Malheur is expected to discharge 73,000 a.f., 14 percent above average. The March 7 forecast rated the Malheur river at 68 percent of average.

Even small tributaries heading in moderate to low elevations will have a near normal water supply, Frost predicted, despite early runoff this year. He also stated that Jordan Valley lands can expect at least normal supply.

SILAGE LOSS WHEN COVERED

Two methods of storing silage have been studied by engineers at South Dakota State college. They have completed three years of experiments on chemical treatments of stored silage vs. metal or plastic covering. Their work shows that a good cover helps more in preventing weight loss than chemical treatment. After two months, silage in covered silos had lost only 10 percent of the original weight, while silage in the uncovered one had lost 62 percent. The figure was a 55 percent loss of original weight on chemical treated but uncovered silos.

My first year in the Future Farmers of America, I carried for my project, two beef calves and a garden project. I took some vegetables to the county fair, but they were put into the wrong class for they were my own, developed by breeds.

My second year, I received a letter in Future Farmers and was elected as treasurer for the coming year. That year I carried a garden project, rabbits and two beef calves. I entered the rabbits in the chapter fair and brought home two first prizes and one second. At the same fair, I came in second in the pie eating contest.

This year I am carrying a garden project, rabbits and I might carry some beef. In receiving the job as the chapter treasurer, I learned lots of things very important. It taught me how to handle money and how to keep up a fairly good book.

Old Fashioned?

Use modern credit for modern needs!

The Land Bank knows the credit needs of farmers and ranchers and keeps its lending program geared to present day requirements. Inquire about a LAND BANK LOAN first!

FARM LOANS

See or write

PAYETTE NATIONAL FARM LOAN

Ritz Bldg., Payette Phone MI-2-3262

Free Flowing SHELL Ammonium Sulphate

Readily Available

by the bag by the carload

AMMONIUM SULPHATE

21-0-0

TOTAL NITROGEN (AMMONIUM) - 21% (40% LBS. PER TON)

COMBINED SULFUR - 24% (40% LBS. PER TON)

WARRANTED ANALYSIS BY SHELL CHEMICAL CORPORATION

SAN FRANCISCO, CALIFORNIA

SHELL

Readily Available

by the bag by the carload

Gilbert Holmes and Alme Hendricks

Nyssa—Office Phone 3104

SHELL

DRIVE WITH SAFETY

YOUR Gate City Journal's



Farm and Barn News and Views

By LeRoy Pulliam

It is a known fact that the feeding of adequate rations has a very direct bearing upon the health of the poultry flock. The following is based in part from a report found in Everybody's Poultry Magazine.

In a recent experiment conducted at the Beacon Poultry Research farm, mortality among layers fed a restricted diet during their growth and development was 22.4% during the laying year. In contrast, their sisters grown on a well-balanced all mash diet, had a near-normal 8.56% mortality.

It is well recognized that nutritional deficiencies will cause certain nutritional diseases and the nutrient deficiency involved are: rickets, a vitamin D or calcium deficiency; nutritional encephalomalacia (crazy chick disease), a lack of vitamin E, at least one type of the hemorrhagic syndrome, a vitamin K deficient diet, polyneuritis, caused by a thiamine-low ration; "curly toe paralysis" a lack of riboflavin; "black tongue," due to a deficiency of niacin, perosis or malformation of the bones of chicks, caused by a manganese deficiency; goiter, due to an iodine deficiency; anemia, caused either by a lack of iron or copper.

Most poultrymen need not be too concerned about the possibility of these nutritional deficiencies if they are using well-balanced rations from a reliable source. In fact, it is unlikely that the poultrymen would observe any of the above nutritional diseases with the possible exception of rickets even if the average diet were not reinforced with special vitamins and minerals.

In nearly all cases the chickens would react to these deficiencies simply by producing poorly. That is, feed conversions would be poor, layers might go out of production and, in the case of meat birds, weight gains would be far from good.

In addition to the nutritional diseases mentioned, it has also been recognized recently that chickens, like humans, can suffer from hardening of the arteries if an excessive amount of certain types of fats are consumed.

While this should not have any great impact on the poultry industry, since longevity has not been a major problem, it is nevertheless interesting to note that the feeding of cholesterol to chickens will produce internal changes similar to arteriosclerosis in humans.

It is a well-established fact that we can experimentally induce certain nutritional diseases in chickens. The unanswered question is, "Is there a relationship between the quality of the ration and the ability of birds to ward off diseases?"

Professor A. A. Camp of Texas has reported that a high level of vitamins along with 3% cod liver solubles increased the birds' resistance during a CRD attack. Birds on the fortified feed were ready for market ten days earlier than the birds on the regular feed.

Dr. A. H. White-Stevens of Lederle laboratories, reported at the poultry science meeting this year that an imbalance in the protein: energy ration of broilers may induce a nutritional stress making the birds more subject to CRD. Adding protein to an imbalanced diet improved the performance of the bird during a CRD infection.

Preliminary reports by Dr. C. H. Hill of North Carolina have indicated that chicks receiving ten times the normal level of vitamins along with vitamin C were more resistant to bacteria causing fowl typhoid than were birds on the control feed. Further work is reportedly underway at North Carolina to determine the specificity of certain vitamins in helping chicks overcome certain diseases.

Work with laboratory rats, reported by A. E. Axelrod and J. Pruzansky, throws further light on the problems of nutrition as



4-H CLUB ACTIVITIES

By County Extension Agents

Clubs Stage Benefit

4-H clubs of the county realized over \$25 at a benefit roller skating party at Franks Roller rink in Ontario last week. Proceeds will go to help those who are in need as a result of the Vale flood recently.

The affair was arranged by Dorothy Houston, Linda Hipp and other members of the Arcadia 4-H club, working in cooperation with Elmer Holtzclaw, manager of the skating rink.

Proceeds are being turned over to relief agencies in Vale, who will disburse it according to need.

Demonstration Day

Help in training demonstration teams and individuals will be given at a special demonstration day at the Ontario high school Saturday, April 20.

All 4-H clubs that will have entries in the demonstration contest related to infectious diseases.

These investigators reported that deficiencies of certain B-complex vitamins, pantothenic acid and pyridoxine, reduced antibody formation when diphtheria toxoid was injected into rats. (Antibody formation is of great importance as a part of the body's mechanism in warding off certain infectious diseases).

at the spring show or county fair may put on their demonstrations at this time, have them judged, and get suggestions on their strength and weaknesses. After each demonstration, we will want to discuss with the contestant and the leader just how it scores.

This demonstration day will give contestants an opportunity for some good practice, a chance to get suggestions for possible improvements and an opportunity to see other demonstrations. It will also give leaders an opportunity to pick the team and individuals to represent their club in the county contest.

Summer School Delegates

The scholarship committee of the Malheur 4-H leaders council will meet Tuesday, April 13, to select winners of the 4-H summer school scholarships.

Over 65 4-H members have submitted their applications for the 40 county-wide scholarships that are available so the committee will face a real job in selecting the ones that may go.

Points considered in making the selection include number of years in 4-H, number of projects carried, interest and attendance at club meetings, and participation in 4-H activities.

In selecting the scholarship committee, an effort was made to get representation from the different areas of the county, so at least one member would personally know each applicant under consideration.

More Clubs

Two more livestock clubs were organized last week, one at Harper and one group at Owyhee has 12 members.

A livestock club at Lincoln and possibly one at Beuna Vista should complete club enrollment for the current year, except for canning clubs this summer.

New Wheat Rust Resistant

Years of research by USDA and Missouri Agricultural Experiment Station workers has paid off. Leaf rust resistance found in a wild grass has been bred into wheat. This potent source for leaf rust resistance has been "fixed" into the Chinese Spring variety of common wheat.

It has given resistance to all 22 rust races for which it has been tested. Very few varieties of wheat have strong resistance to any of the 22 rust races. However, some of the "second cousin" wild grasses are practically immune to leaf rust. One of these was used in transferring resistance to Chinese Spring wheat.

COMPARE BUILDING MATERIALS

Hog housing material has come in for investigation this past year. In a comparison of three types of material—aluminum, steel and wood—it was found that pigs gained a little faster on less feed during the summer in the aluminum structure, which had lower daytime temperatures. Differences were slight.

WANTED!

MEN TO TRAIN FOR REAL ESTATE APPRAISERS

Age 25 to 60. Must be residents of this county two or more years. Competent appraisers receive \$325 to \$450 per month. Farm experience valuable.

WRITE BOX 301
GATE CITY JOURNAL, Nyssa, Oregon

WEED BURNERS FOR RENT

TANK SALES—RENTALS—LEASES

"Your Servant Beyond the Gas Mains"

IDEAL GAS & APPLIANCE

Phones — Nyssa 2214 — Weiser 369-W



ammonium sulfate

Granular... No Crumbling... Free Flowing

This is the Ammonium Sulfate farmers have been asking for—large, firm granules, dust-free and always free-flowing. Take a handful of USS Ammonium Sulfate... feel with your fingers the solid granules—there's no crumbling. You'll agree there's never been Ammonium Sulfate like USS brand.

USS Ammonium Sulfate contains 21% nitrogen, with a bonus of 24% sulfur—an easy-to-use, economical, multi-purpose fertilizer that means more dollars per acre for western farmers. See your dealer now. Also available, USS Ammonium Nitrate and USS Anhydrous Ammonia.

BEAR the Banner of SAFETY!

make sure you can...

... STEER

sure enough

Bear Balancing and Alignment can solve your steering problems.

... SEE

fast enough

Let us give your car the Bear Headlight Test

... STOP

quick enough

Don't trust to luck... make sure your brakes will hold. A brake test takes just a few seconds and may save your life. Stop in TODAY and let us check all three!

TOWNE GARAGE

218 Main St.

Dial 2570

DRIVE WITH SAFETY



USS NITROGEN FERTILIZERS

UNITED STATES STEEL

Agricultural Extension
UNITED STATES STEEL
919 Kearns Bldg., Salt Lake City, Utah
☐ Send me free sample of the new USS AMMONIUM SULFATE
☐ Send me free pamphlet
☐ Tell me where I can buy new USS AMMONIUM SULFATE

NAME

ADDRESS

CITY

STATE