

Dump Grounds for Diseased Potatoes In Control Effort

By **WALTER JENDRZEWSKI**, Asst. Co. Agent

Establishment of county dump grounds in the Malin, Merrill and Henley districts is another advancement in potato pest and disease control efforts. The dump grounds were set up for eelworm and ring-rot infested potatoes. They are not intended for ordinary culls which are an asset on farms with live-stock. Refuse, such as tin cans, etc., is not to be left at the potato dumps.

Dump ground sites were selected for ready accessibility and isolation from crop land. Their locations are such that infection of other crop land through irrigation and drainage water is impossible. Fences have been provided to guard against danger to livestock and prevent eelworm spread in this manner. Budgets would not permit fencing at the Merrill dump at the present time but there is good isolation at that point.

Fills Need
There has long been a need for isolated ground to which cellar cleanings and rotted diseased potatoes might be taken. Without such locations, eelworm infested potatoes are hauled out according to the discretion of numerous potato growers and left to infect land in numerous different places. In order to prevent serious losses from ring rot it is particularly important to clean out cellars and disinfect them before cutting and handling seed for the new crop. Although ring rot is said not to live over in soil, a pile of cellar cleanings might easily harbor countless numbers of these highly infectious bacteria. A pile of cellar cleanings might easily be the source of initial or even serious infection of a seed lot otherwise free of ring rot.

Any potatoes or cellar refuse hauled to the dump grounds should be well sacked to prevent scattering along roads. This is particularly important in the case of culls containing eelworm infested tubers. Eelworm potatoes should not be fed to livestock. Such feeding results in wholesale scattering of the nematode. Feeding to hogs after cooking destroys the worms which are in the potatoes.

Eelworm or potato nematode is a tiny worm which lives in soil. It obtains its food by entering plant roots and tubers. After its entry into plant tissue, the worm develops and eventually produces from 500 to 800 eggs. The eggs are liberated when the greatly enlarged egg-bearing worm ruptures. As temperatures rise the eggs hatch into new worms which find new plant roots or tubers and repeat the process. The most favorable soil temperatures for potato nematode development are from 70 to 80 degrees. Under Klamath basin conditions, two broods are the rule. The first brood hatches and enters plant roots before potatoes set. The second brood enters growing tubers. On land known to be infested with eelworm growers here have in some seasons been successful in holding down percentage of eelworm infested tubers by light, frequent irrigations, keeping the soil temperatures at around 63 degrees. Low soil temperatures make the first brood come later in the season and in some seasons eliminates a second brood.

Covering Needed
The season of the year is at hand when creamery operators and dairymen who haul their own milk and cream should give careful attention to coverage of the truck used for this purpose. The state department of agriculture dairy division warns that it will require full compliance with the state regulation covering this matter.

Several types of coverage are practical. The department makes no specific requirement as to type of covering. Officials feel, however, that canvas alone is not sufficient and that a padded covering should be used if the truck does not have a permanent top. It is essential that covering affords protection from the sun's rays as well as from dust and dirt.

Kidney-Bladder Sufferers Must Drink Water
6 Glasses A Day—Big Help!
Everyone knows how good water is for your general health—drink all you can—it cuts your thirst and is a particularly good aid in soothing the kidneys. But if your kidneys are sluggish and causing you trouble, water alone may not be enough—what you may need for proper relief is a good medicine to help flush out excess acids and poisons.

Old at 40? Get Pep
FEEL NEW, YEARS YOUNGER
"It's Dr. Pepp's..."

cause heavier local starch deposits. Usually growers shy away from land that is known to be infested. Infested land can be cleaned up by clean cultivation for two years. The eradication may not be complete but for practical commercial potato growing, the eradication may be considered complete. The principle of eradication by clean cultivation is starvation. Grain crops may be planted if weeds are kept out. Of all plants, only grain crops and grasses are not susceptible to nematode.

The value of dump grounds in ring rot control will be apparent to growers aware of the very infectious nature of the causative bacteria. The infectious nature of *Pseudomonas sepedonica* is largely due to its rapidity of growth and multiplication. The bacteria are very numerous. There are teeming millions of them in a single infested potato. Only one is necessary to infect a seed piece.

If the cut or broken surface of a seed potato comes in contact with articles on which ring rot bacteria are present, a plant from the seed piece is extremely likely to produce a ring rot infested crop. The articles may be knives, cutting table, grading table, sacks, cellar floor or bin surface, and planters. Picker-planters are especially instrumental in spread, since spikes may be infected and each seed piece receives a fresh pick injury.

Thorough cellar and equipment clean-up and disinfection is essential to control ring rot. A cleaned up cellar may be disinfected with a formaldehyde solution made up with one pint formalin to 20 gallons of water. The formalin solution is best for tools and equipment. A copper sulfate (bluestone) solution of one pound to 10 gallons of water is a good cellar spray.

A pile of cellar refuse by the door takes a lot of effectiveness away from disinfection inside. Bacteria are carried back into the cellar every time it is entered.

Feed value of good eelworm-free culls is an asset every potato grower should capitalize on by including a livestock enterprise. Potatoes are equal to corn silage in feed value and are three times as good as manure.

Dumpgrounds were not set up for dumping valuable livestock feed. They are a disease and pest control measure. Potatoes dyed under the feed diversion program are not to be hauled to dumps. Feed diversion payments are made for feeding No. 2s or better to livestock. Feed diversion potatoes which cannot be fed in the near future may be processed for future use by ensiling or drying.

COVERING NEEDED ON CREAM TRUCKS

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Using the County Spud Dump Grounds



Pictures show cull spuds being dumped at the county dump ground No. 3 near Malin. The grounds are the latest development in potato pest and disease control efforts.

Drive on to Produce Every Possible Egg This Spring

A nation-wide drive to produce every egg possible from laying flocks this spring has just been announced at Washington, D. C., as a part of the program to increase the production of certain concentrated foods while holding down the output of staple export crops such as wheat, cotton and tobacco.

The program fits in well with the suggestions made throughout Oregon this spring by poultry specialists at Oregon State college, who recommended that egg producers hold their flocks to the maximum of present housing facilities, and that ample feed be used to insure maximum production. Neither the national nor state situation, however, warrants expansion in permanent new housing, according to Secretary of Agriculture Claude Wickard and the Oregon poultry specialists.

Eggs have been included among a few foods such as dairy products, pork, and chickens for meat, the production of which is to be encouraged for the next two years. These foods will be needed to increase amounts in this country as industrial payrolls are stepped up, and they are the easiest foods to export under the present program of American aid to nations resisting aggression.

While corn is the feed expected to be used in greatest volume in carrying out this program, wheat will receive the benefit throughout the western states

particularly. Research carried on at Oregon State college in the last few years has shown that wheat is a suitable and even superior feed grain for all types of livestock. It already forms the chief ingredient of Oregon poultry feeds and the proportion of wheat can be increased whenever it is cheaper than other grains, according to tests made at OSC.

The surplus marketing administration has arranged to support the market on the types of food mentioned in order to maintain prices profitable to the producers. Average levels aimed at are eggs, 22c; pork, \$9 per cwt; chickens, 15c per pound, and dairy products, basis of 31c per pound of butter—all prices figured at Chicago.

Poultrymen to Speed Egg Output

CORVALLIS, April 24 (AP)—Oregon will assist in the nation-wide campaign to increase egg production to meet increased domestic and foreign demand, OSC poultry department officials said Wednesday.

Extension men of the college have advised poultrymen to fill present housing facilities to capacity and feed enough to insure full production this year.

There is but one objective, and that is to defeat aggression—Samuel R. Fulton Jr., office of production management.

DEAFNESS

If you hear, but do not understand conversations, contact Mr. William J. Wilson, Sonotone Representative, at the Hotel Elk, April 24, 25, and 26th. Full audiometric chart and demonstration of the new small vacuum tube—Sonotone-Audicle—The finest hearing aid available.

OREGON FARM POPULATION UP 16 PER CENT

WASHINGTON, April 23 (AP)—Total farm population in Oregon has increased by 16.1 per cent since 1930 but preliminary estimates for the country as a whole show an increase of only one-tenth of one per cent, the census bureau said today.

Connecticut showed the largest increase—19.8 per cent and South Dakota the greatest decrease—21.1 per cent.

The total farm population of Oregon was 259,638 in 1940. In 1930 it was 223,667.

Other preliminary census estimates today showed Oregon has 108 males for each 100 females. Total 1940 male population was estimated at 565,884 and female at 523,820.

The white population was placed at 557,214 males and 518,086 females. In 1930 the state had 490,479 male whites and 448,118 females.

The non-white population for 1940 was estimated at 8650 males and 5734 females.

Another preliminary analysis showed that the state had 49,572 males and 43,063 females 65 years of age or over. The total numbers of persons of this age in Oregon increased 37.6 per cent since 1930.

67 MATTRESSES COMPLETED HERE

Fluffy mattresses made from surplus cotton have gone into 67 Klamath homes to make for better living. These were the mattresses made at the Altamont work center by the families who received them.

The Altamont work center closed Monday, April 21 completing 120 mattresses. Supervising the work at this center were the following local leaders who donated their time and service to the community: Mrs. Anna Funk, Mrs. C. W. Judkins, Mrs. Charles Thurman, Mrs. Lester Wishard, Mrs. M. E. Knauss, and Mrs. Imig. Sewing machines were loaned by the Singer Sew-

FLOUR VITAMINS TO MAKE BIG MEN

PORTLAND, Ore., April 24 (AP)—Better bread, now possible through restoration of vitamins in flour, will make bigger men. G. C. Thomas, Minneapolis, Minn., said Tuesday.

"The government is encouraging us to produce this flour, for it is one very decided contribution made to the defense program in bringing better nutrition to the masses of people in a basic food," he said.

Addressing the northwest bakers' convention, the vice president of General Mills, Incorporated, explained, "The program calls for the restitution of vitamin B1, thiamin; also nicotinic acid, which is another vitamin of the B complex, and is now known as the anti-pellagra vitamin. With these is added mineral iron, all being natural to the wheat in full grain."

Looking at the bright side—suppose you lived at the North Pole and hubby stayed out all night?

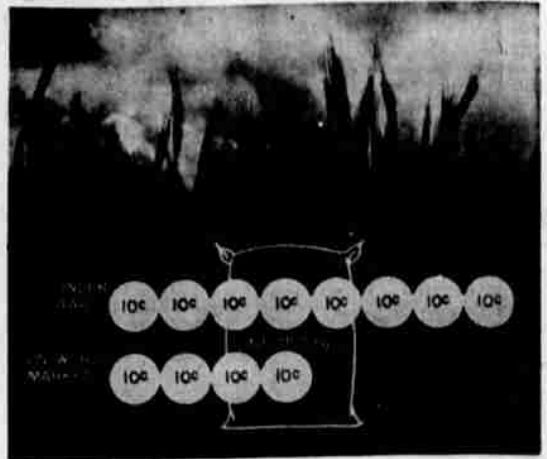


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AAA Boosts Wheat Income



The U. S. Department of Agriculture says that American farmers who cooperated in the 1940 AAA program received a net return of nearly 80 cents a bushel for their wheat. Compared with a probable return of 40 cents a bushel or less had they been dependent entirely upon the world market. The national farm program aids wheat growers with crop loans, parity and conservation payments, crop insurance, and an export program.

ing Macchine company and by local women in the community. Plans are being made to open mattress making centers at Chiloquin and Merrill on Monday of next week. The Merrill center will be at the community hall, and at Chiloquin in the hall across the street from the telephone building. Applications for these centers are being received at the home demonstration agent's office.

TAR WEED SEEDS INJURE STOCK

Screenings which contain a considerable amount of tar weed seeds should not be fed to swine, horses or cattle, for the tar weed seed may poison these animals, reports the state department of agriculture animal division.

Hog losses due to this cause have been experienced from time to time in eastern Oregon wheat districts and also quite frequently in Willamette valley. Screenings with tar weed seed come from grain that has been grown in the Island Empire region and some screenings feeds come from the larger mills. They should not be fed in large amounts without other supplementary feeds. Symptoms of the poisoning in-

swine and horses are due to destruction of liver tissue. Animals show a severe anemia, symptoms of jaundice and in general present a runty appearance.

"PASS THE APPLE TREE"
Instead of passing fruit at the table in Japan, they may pass a whole fruit tree. Dwarf fruit trees, bearing actual fruit, are grown in flowerpots by these people.

DEEP EXCAVATION

The world's largest man-made excavation is an iron mine at Hibbing, Minn. The mine is 350 feet deep, 24 miles long, and a mile wide.

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