Canada Thistle, Serious Pest in Willamette Valley, Can Be Destroyed

CANADA THISTLES PROBLEM ATTACKED BY PLANT EXPERT

Inoculation With Virus of Wilt Disease Will, It Is Hoped, Be Death to Fast-Spreading Pest.

HELP OF FARMERS ASKED

Specimens Are Desired From Al Parts of Oregon; Symptoms Described; When to Gather.

Is it' possible to kill Canadian thistles by inoculating them with the virus from the wilt disease that has attacked and destroyed large areas of them in Lane and Polk countles, Oregon?

This is the problem that H. P. Barss, chief of plant pathology at the Agricultural college experiment station, has set about solving, with the help of assistants and farmers who have discovered symptoms of the thistle disease.

imens of diseased plants have been collected by C. E. Stewart, Lane county fruit inspector. Cultures of the fungus apparently responsible for the death of the plants were made by the station pathologists, and will be used to test the possibilities of spreading contagion among healthy thistle plants to destroy them.

FARMERS ASKED TO ASSIST Farmers have been asked to assist in the investigations by reporting symptoms of the thistle disease, giving an account of the nature and extent of the injury in their localities and sending diseased parts of a plant newly attacked. The station specialists will seek pure cul-tures of the fungus to be used in testing its efficacy in eradicating the thistle by inoculation with the spores.

It will also be necessary, Professor Barss says, to determine whether the

fungus causing the death of the thistle plants will attack cultivated plants. In the meantime, farmers are asked to make no application for cultures until their value, limitations and manner of application are ascertained. Symptoms of the disease are wilting

of the plant and a blighted area of the stem at or near the surface of the As the disease progresses the olighted area extends upward until the plant is killed WHEN TO GET SPECIMENS

It is essential that diseased specimens be collected for investigation before decay has set in, as otherwise many other destructive organisms may enter the

plant, greatly complicating the work of isolating the wilt spores.

The wide distribution and heavy infestations of Canada thistles in Oregon, estations of Canada thistles in Oregon, estations of the best land make a new and more effective treatinvestigations of the new fungus as fast as possible, and for this reason desires the cooperation from all parts of the

New Sheep Breed

Corriedale sheep developed in Australia mainly by a Lincoln-Merino cross, are being studied by the United States ent of agriculture at the government 28,000 acre sheep experiment one bull has already been purchased, ject lesson to his neighbors, but the ranch at Dubois, Idaho. There are at being Minetta's Butter Boy, out of Minpresent about 1500 sheep on the project etta of Ashwood, belonging to N. H. divided into various classes. Australians claim for the Corriedales better mutton form than the Merino, more weight, and yet a good fleece of about three with 710 pounds of butterfat. She is now on test again this year and is less than it would cost each one to own a poor built. three-eighths blood quality. It is expected that the tests now being conducted by the department will eventualnutton carcass, than the breeds now on the market. The breed was introduced into this country by the federal department, but since that fime many large private importations have been made. Part of the sheep on the Dubois range are being kept as straight Corriedales, while others are being crossed with American crossbreds

Successful Feeding Needs Calculation

The calculation of rations with the The calculation of rations with the aid of feeding standards and tables will prove both interesting and profitable, for it will throw much light on the proper combinations of food for different purposes. At the same time it promotes a spirit of inquiry and close observation on the part of the farmer, which is one of the first requisites of a successful feeder.

Read the advertisements on the farm pages. They contain many helpful hints on better farming. In answering advertisements always mention The Journal. 110 Sixth Street, Portland, Oregon

WE PAY

65c-BUTTERFAT-65c

Your cows will PAY a PROFIT if YOU will SELL YOUR CREAM at top prices.

ways over the top on butter fat prices.

return mail will convince you.

45-47 Front Street

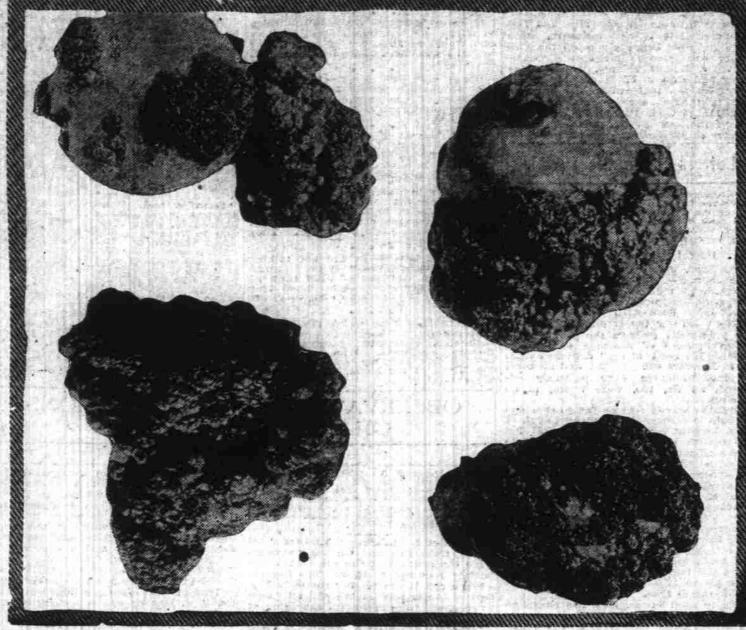
Then WHY NOT ship your cream to us? We are al-

Tag your next can to the PEERLESS - a check by

PEERLESS BUTTER CO.

PAINTS, OIL, GLASS, SASH & DOORS

POTATO INDUSTRY IS MENACED



Potato industry is menaced by wart disease. Above photographs show diseased potatoes in various stages

CLACKAMAS FARMERS

Cost of Owning Pure-Bred Bulls Distributed Among Several; Other Clubs Expected.

By R. G. Scott, Clackaud's County Agent,

pecially in the range and pasture areas, anywhere in the state, has become Jerment for eradication highly desirable. Sey territory, by the formation on June The station is desirous of speeding its 24, of the Southern Clackamas Jersey

Nine progressive farmers residing association and by-laws under the and his herd tested 31/2 per cent.

secretary-treasurer.

ONE BULL PURCHASED

50 cows, and at the end of two years bulls at a reasonable cost. they will be exchanged. This gives each dairyman the use of strictly grade bulls for four years, with an investment of about \$7.50 per cow. The bulls are owned by the association, and not by any one or two individuals, and the responsibility for the care of the

E. W. PEASE CO.

Portland, Oregon

CORONA

The Personal Writing Machine Weight 6 pounds, lightest and most compact of all ma-

chines. Price \$50, with carry-ing case. Re-built machines

of all makes.

bulls, and the division of cows into blocks rests wholly with the directors. OUTSIDE BREEDING

No member is allowed to breed his cows to outside bulls without the permission of the directors. This is a of The Journal-Please tell me where sanitary precaution. For the same rea- can get a book with reliable informason, if any man signs up for only a part of his cows, he is not allowed to breed the rest of his cows to outside bulls without permission of the directors.

Leaf get a book with reliable into the line of the up of th

The district in which these buils are to stay is one of the most fertile in the county. Within a little more than one square mile there are 19 silos, the first of which was built in 1901. There are a number of high producing grade Jersey cows, producing according to private records 400 to 500 pounds of fat.

These grades have been built up by the use of good bulls for a number

GOOD HERD IN REGION

ceptionally fine heifers, which are com-

Is Being Studied

Is being Stu COST IS DIVIDED

bull kept them back. Under the bull

Another bull will be purchased as soon Oregon operating under this plan is signs of sickness notify the state live as one can be found which comes up at Hermiston. It is expected, however, stock sanitary authorities, the county ly result in a better average sheep, as to the high standard set by these dairy- that other districts in Clackamas counmen. Each of these bulls will be ty will take advantage of this method in the early stages of the disease can placed at the head of a block of about of getting the use of exceptionally good probably prevent loss, but if delayed

TORWESS !

Food Values Should

In selecting feeding stuffs for his the stock the farmer will naturally be gov-of erned by the conditions of the market. The cost of feeding stuffs is controlled by other factors than the actual amounts of food materials which they In this neighborhood lives P. J. An- contain; indeed, there often appears to derson with 12 head of registered Jerbe very little connection between the PREVENTIVE MEASURES
sey cows, with a bull from the Cary two. Bearing in mind that the protein No method of controlling herd out of a 75 per cent St. Mawes is the most expensive ingredient, and wart has yet been discovered, so every at home. centrated feeds, the farmer can make near Monitor, with the assistance of ing into milk. A number of years ago his selection with the aid of tables the county agent, drew up articles of Mr. Anderson kept grade Durham cows, showing the digestible materials in 100

COST IS DIVIDED

The success of this man was an object lesson to his neighbors, but the cost of armic and appointed to perfect a program for the year's work. These plans will be announced at a big meeting in Septem-

One means of increasing our supply of food is to prevent loss from hos one to own a poor bull. clean. This is important in preventing The only other bull association in outbreaks. If any of the hogs show clean. This is important in preventing in the early stages of the disease can

> of the Indiana Silo keep the silage sweet

A Saw, a Hammer, and a Monkey Wrench Are All You Need to Build THE INDIANA Still not too late to have your ready for this harvest-time As soon as your order is received we ship complete directions for building. The complete Silo is shipped by the time your foundation is built. You need no skilled carpenters to erect the Indiana Silo. The usual size is easily put up in two days with a couple of unskilled helpers, a saw and a hammer, and a wrench. -and when it's up you know it's going to STAY UP. The straight grained fir staves, held firmly together with shaped steel hoops form a wall that will not burst. The silage juices actually preserve the fine fir fiber. Send in right eway for the full statement of the EASY TERMS and a blank contract. WASTED SEND FOR FREE SILO BOOK, TOO SILAGE The Chas. K. Spaulding Logging Co. Address Dept. G. The Air-tight SALEM, OREGON

POTATO WART DISEASE FARM BUREAU PREMIUM LISTS OF **BECOMING MENACE TO** IMPORTANT INDUSTRY

Cooperation of Growers With Government Agencies Needed to Stamp It Out.

aced by a malady new to this country- mers in the various communities, and from the fair office. The book this the potato wart disease. Unless it can if the season is at all favorable, this year is 120 pages, exclusive of the be eradicated before it spreads to com-mercial plantings, specialists of the United States department of agriculture years to come. say it will cost potato growers millions annually. It is easily recognized and when discovered it should be promptly reported to federal or state agricultural cases. Accordingly, the farm bureau

promptly suppressed it may prove disastrous to the entire American potato industry, which involves nearly half a billion dollars annually.

WHAT TO LOOK FOR Two bright spots reduce the menace

of this disease. Except in its early stages, it is easily seriously affect the growth or vigor

of the vines.

It usually appears in the eyes of the prominent wart-like outgrowths on the ton for the work under the slogan, "A The warts at first are whitish cr

light brown. Eventually they turn to to the light, turn green. The warty tumors vary from the size exceed the size of the potato on which hey grow. In the latter case, the warty

mass loses all resemblance to a potato.

In some hills some of the potatoes may appear perfectly healthy, but the eyes are likely to be infected. HOW DISEASE SPREADS

It is through the use of such apparently sound potatoes for seed that the disease is often spread to new localities. Under ordinary conditions the potato wart disease grows slowly. It lives in the soil and on the tubers, so one or the other must usually be transported Be Given Attention or locality. The spores may be carried products. mals, by planting diseased potatoes, by planting sound tubers that have grown on infected soil, by the use of manure from animals to which diseased potatoes have been fed, and by garbage into which peelings from diseased potatoes

have been thrown.

No method of controlling the potato it from spreading. The warts should be burned. Diseased tubers should not be rays. fed to live stock without first being to other crops. Potatoes should not be eggs. planted again in infested soil for at least

ties are working to prevent the spread than to control. possible, ways of controlling the mal-ady, and information will be furnished experiment station, or to the United as rapidly as discovered. But potato States department of agriculture.

Statistics indicate that Clackamas county is the premier potato-producing county of the state. Interest in the improvement of this cash crop was wide-spread during the progress of the Farm Bureau organization campaign in the county. As a result of the expression of this interest, County Agent Scott has secured a ton of hill-selected American Wonder seed potatoes of the F. N. Lasley strain in eastern Multnomah county. This seed has been distributed among twenty-five farmers representing all sections of Clackamas county, and will be planted side by side with ordinary American Wonder seed. The The potato industry is seriously men- results will be carefully noted by far-

Considerable loss occurs annually in Clatsop county by reason of potato dis-Like many other plant diseases and of seed before planting, and as a result mineral displays. A list of the fairs imported from Europe. It is without 1600 bushels of seed potatoes were this doubt the most serious potato disease year treated with corrosive sublimate. discovered in the United States. Unless while last year not more than a hundred bushels were so treated.

One sanitary water system costing less than \$40.00 was installed this month in a home in Jackson county due to the home demonstration agent pointing out the possibilities of utilizing a nearby stream. There is a family of seven in the household and the mother thinks recognized, and it spreads slowly.

However, it cannot be detected until the potatoes are dug, as it does not convenience in her work.

Several communities of Umatilla county are participating in an Antitubers. Spreading from this point of Fly campaign under the Sanitation pronfection, it may gradually envelop the ject leader and with the assistance of whole potato and render it a spongy, the home demonstration agent has alwarty mass. It is characterized by the ready organized the women of Pendle-Flyless Pendleton."

Twenty-five farmers in Coos county a darker shade. After decay starts they turn black. Young warts, when exposed per acre of superphosphate to corn this spring on plots of one acre. The yield of corn so treated will be compared with of a pea to a walnut; or they may even that of the untreated corn and the results will be assembled by County Agent J. L. Smith in order that all the farmers of the county may know whether or not superphosphate pays when applied to corn ground.

Uniform Products Bring Best Prices

Uniform products command the best to introduce the disease into a new field prices. Purebred fowls produce uniform

Begin marketing the cockerels as soon as they weigh 1 pound or attain a marketable weight. Market white-shelled and brownhelled eggs in separate packages. When selling eggs to the country merchant or cash buyer insist that the transaction be on a quality basis.

Ship or deliver eggs at least twice or three times weekly. Small or dirty eggs should be used should be protected from the sun's

Infertile eggs will withstand marketboiled. Infested soil should be planted ing conditions much better than fertile

eight years.

Federal and state agricultural authori- wart disease is much easier to prevent

potato wart, but they will need Keep watch at digging time for po heartiest cooperation from every grower tatoes with warty growths which are and dealer in potatoes to save the industry from this new menace. Experiments are being conducted to learn, if promptly all suspicious cases to your

AGENTS WANTED

EVERYWHERE TO SELL THE

"DAVIS - MADE"

NATIONAL

BICYCLE

HIGH GRADE, MEDIUM PRICE

\$48.50 to \$53.75

SEND FOR CATALOG AND TERMS OLD WHEELS IN TRADE

Merrill-Strine Cycle Co., Inc. 86 Broadway, Portland, Or.

Book May Be Obtained by Applying to Office of Fair in Terminal Building, Spokane.

Premium lists for the Twentyixth Annual Spokane Interstate Fair and Livestock show, September 1 to 6, are now being distributed cover, and presents the features of every department of the great annual show, including rivestock, poultry, dairy, agriculture, fruits, vegetables, floriculture, fine arts, woman's work and the boys' and has made a campaign for the treatment girls' agricultural departments, and west, with their dates, is also given. Premiums will be given in each division as follows: Horses, \$3360; cattle: Short horns, \$1512; Herefords, \$1006; Aberdeen Angus, \$492.50; Holsteins, \$1492.50; Guernseys, \$490.50, in addition

Stockyards

Check Service

We make deposits at

your own bank for you gratis. Place the liability on us—it's safer.

LIVE STOCK

STATE BANK

Located at Union Stockyards North Portland, Oregon

"SERVED BY FIVE TRANSCONTINEN-TAL RAILROADS AND DEEP WATER . TO THE SEA."

to prizes offered by the pure bro several thousand dollars; dairy department, \$168.50; agriculture, \$2406; fruits, \$825; grains and grasses, \$392.50; floriculture, \$111.50; fine arts, several hun-

The premium lists are now being dis-tributed generally throughout the In-land Empire from the Interstate Fair office in the Terminal building, Spokane, Wash.

The premium list contains general rules and regulations governing the en-try of exhibits and the closing dates of entries in all departments.

Read the advertisements on the farm pages. They contain many helpful hints on better farming. In answering adver-tisements always mention The Journal.

CARBOLINEUM

Made in U. S. A.

(Formerly Avenarius Carbolinoum)
reserves wood structures,
me application destroys poultry verminseeps flies from cattle, horses and hogsret preservative for roofs, allow, etc.
not effect allage,
which the life of timber above or below
id.

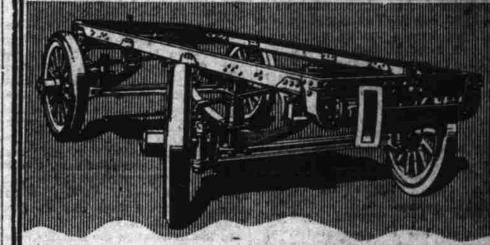
We Develop Kodak Films Free are ordered.

Mail us films with Six Cents
Stamps for each desired print. We
return excess. No charge for unprintable films.

Woodard, Clarke & Co. Photo Supplies, Wood-Lark Bldg. PORTLAND, OREGON Ask for Catalog and Special Offer

If It Is Anything in PLUMBING—See Us First Wholesale and Retail Plumbing and Heating Supplies OUR NAME "STARK-DAVIS" Is a Guarantee of Quality

ORDERS FILLED THE SAME DAY AS RECEIVED 212 3d St., Near Salmon, Portland, Or.



What a Trailer MUST Be

Motor-Truck Trailer must be more than a vehicle. It must be a specially designed piece of machinery. Four wheels and a frame won't do it.

TROY Trailers lack one thing that a motor truck has self-contained power. But they have other mechanical features motor trucks don't have. Specially designed draw-bar construction with a spring that works on pull and push. Prevents shocks from sudden starts and stops. An absolutely automatic steering mechanism. One or more TROY Trailers will follow in the exact track of truck around any corner.

TROY Trailers of the reversible or double end type can be backed any place—around any point, or up to any desired point. No side thrust in rounding corners—no strain on wheels, frame or steering gear. No whipping motion. Every wheel takes care of itself in meeting road obstructions. Compound draw-bar heads and couplings take not only the upand-down and side-way fluctuations, but all the angles in between. The pull is through frame and springs. Not on the axles and wheels.



TROY Trailers are absolutely different from wagons in design and construc-ta. They do not contain a single wagon part Built entirely of bronse and steel rubber. No traction on tires

TROY Trailers take any road where a truck can operate.

Over three years of wonderful performance for thousands of users. It has proved up in the service of this government and the warring nations.

It has been adopted by scores of nationally known concerns such as Riker-Hegeman, John Wanamaker, Eastman Kodak, Ford Motor Co., Studebaker Corporation, and others. These concerns don't buy till they know. All over the country, in every line of business, with every good make of truck, TROY Trailers are cutting costs and bettering service.

Mail coupon. We want to send you proceed TROY Trailers are continued.

Mail coupon. We want to send you proof of TROY Trailer economy and efficient Learn what TROY Trailers are doing for hundreds of users with problems like you

Hodson-Feenaughty Co.

Northwestern Distributors 309-315 East Yambill St. Portland, Ore.

CUT OUT AND MAIL TODAY HODSON & FEENAUGHTY

Wilson's Scottish Oat Meal

The "Old Country" kind, containing the germ of the kernel. It has a sweet, rich flavor, incomparable with other oats.

You can get any of the Wilson products delivered direct from the mill by phoning or sending your order by mail.

Here Are Some of Our Products:

Wilson's "Old Fashion" Breakfast Rye.
Wilson's "Scottish Ont Meal," fine or coarse.
Wilson's "Breakfast Wheat" or Whole Wheat Granules.
Wilson's "Old Fashion Corn Meal" (ground from the whole kernel).
Wilson's "Old Fashion Whole Wheat Flour."
We utilize the whole kernel of the grain, extracting as

If you live in Portland, phone and we will deliver any size package from 9 to 50 pounds of the above cereals or send by mail, postage paid, in first and second zones.

Send 40 cents for four-pound trial package by mail, and ask for prices on larger quantities. We pay postage in first and

The Old Fashion Milling Co., Inc.