



HAULING BOX BUTTE POTATOES

By F. M. Seidell, County Agent, disease. Know the desired shape of tatoes from seed was: **Box Butte County**

a b of the potato crop was approxi-mately as much as the value of the opring and winter wheat, rye, barley, corn and oats crop ombined. Hence the importance of the potato crop and its in provement. b of molecular corn and its in provement. corn and its in provement.

AN EFFICIENT METHOD OF TREATING POTATOES FOR DISEASE

the variety you are growing. Pota-toes will produce true to type of Dry rotted seed bu, per. A. 105.09 | man uve years as a result. Potatoes are Box Butte county's seed providing other conditions are potatoes in 1916 is estimated at \$551,900. In other words the val-growths and deep ever (remember 100.07 bushels of reduced the yield \$551,900. In other words the valsol, sol. In other words the val-growths and deep eyes (remember 100,03 bushels of marketable pota-sults. They are thus able to pro-

"Fungicides"

I'RECAUTIONS .- (1) Be certain that your formalin is full strength and the solution made according to the above directions. (2) Treat the potatoes for the full 2th hours. (3) This solution is not poisonous, and treated potatoes may be eaten or fed

In no case sacrifice strength o solution by making stronger or weaker or by treating olnger or shorter time. Potatoes must be- in solution 6 hours before being damaged materially. In treating with corrosive sublinate, potatoes should be relatively free from dirt. - Keep solution stirred up. Do not be alarmed because of evaporation.

Either treatment is effective against disease scab, and all dry rot or bacterial wilt reached by seed treatment. Corrosive Sublimate is recommended for treating potatoes affected with Stem Rot or Rhizoctonia, which appears as black specks on the exterior of the potato. This disease cuts down production and may reduce stand of potatoes.

In 1915 demonstrations were conducted by the County Agent on the farms of the above four co-operators to show the value of seed treatment.

Untreated Formalin Subl. Average, 132.73 158.60 166.80 Increased yield by Formalin, 25.87 bushels at 35c equals \$9.05

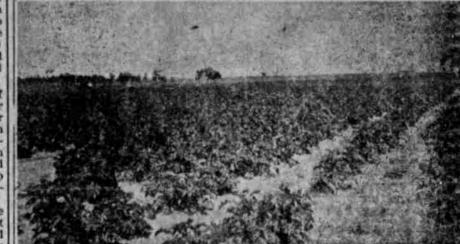
It will cost approximately 4c per bushel to treat potatoes, allowing for chemicals at present prices and for labor, providing no time is wasted while potatoes are being treated. Any plan (providing directions are followed) that will facilitate in treat-

potato diseases, maintaining yield and fertility. Potatoes should not be planted in the same field oftener than one year to five. This will allow the greater part of the potato disease to have disappeared.

Growers have found by experience that a well-prepared deep seed bed gives on the average the best re-

car of potatoes shipped out cannot tain low temperature where large help but east reflection in the pota- quantities of potatoes are stored

and its is provement. There is a need to improve our po-tatoes so that the growers can pro-attandardize for market so the potations. Plant nothing less toes will be in demand. This will enable the growers of this section to toes will be in demand. This will enable the growers of this section to toes of this section to the potato diseases of the potato. The ist is absolutely necessary to treat seed to eradicate potato diseases that is desolutely necessary to treat the potatoes in their sections. They this section to the potatoes are stored without proper ventilation. Potatoes to es of this section. According to the Department of Markets, the thing the potato grow-er must ask himself about the grad-ing of his potatoes is, "Can he af-ford to pay himself for grading his potatoes at home or is it cheaper for the n a one-ourse seed more and because of the potato. The discipace of this section to the n a one-ourse seed more and the potato. The discipace of this section to the n a one-ourse seed more and the potato. The discipace of this section to the n a one-ourse seed more and the potato. The discipace of this section to the n a one-ourse seed more and the potato. The discipace of the potato of the potat



A TYPICAL BOX BUTTE COUNTY POTATO FIELD

Repeating this order your potatoes erage distance from market on the follow corn and are planted on the same land only one year in five. (5) Grading for Market danger in long hanls, small differ-(5) Grading for Market After all, besides supplying home ence in price, shrinkage, freezing, use the aim of the potato grower is and storage disease losses are things

to show the value of seed treatment. Very scabby, two-ounce seed was used in all cases. Part treated with corrosive sublimate and part treated with formalin planted beside un-treated scabby seed of the same kind and origin. There is a demand for a potato of ed correctly in order to give strong reasonable size, good in quality and seed. The potatoes stored for the relatively free from disease. The southern seed trade must be stored grading for market has been a thing correctly (not allowed to heat) so as badly neglected in this section. The to maintain their vitality.

Potatoes should be stored in disthis condition, for many unscrupu- infected cellars. The ideal storage lous buyers have practiced buying temperature is from 33 degrees to ungraded potatoes. Every ungraded 45 degrees. It is impossible to main-



20.87 bushels at 35c equals \$9.05 per acre. Increased yield by Cor-rosive Sublinate, 34.07 bushels, at 35c equals \$11.92 per acre. Stem Rot was prevalent in all po-tatoes used for seed, which probably accounts for some difference in favor of Corrosive Sublimate. of Corrosive Sublimate.

ing is worthy of consideration. (4) Proper Cultural Methods Rotation is essential in contorlling

Land free from trash is essential in the production - of smooth potatoes. Remember there are two kinds of scab; one a discase, and the other a result of insect injuries. Insect trouble is largely controllable by proper rotation. A -field that has been idle or uncultivated for a short time is more apt to have grubs and other enemies to smooth potatoes. Manure if applied to land should/be applied just after digging potatoes. If applied in large quantities, disease scab may live in the soil longer

ect for the improvement of Box acre. Butte potatoes. This project does oot consider seed treatment, etc., sired improvement.

(1) Pure Standard Varieties standard adaptable varieties known amination of the stem end of potato have been disinfected. to be pure be used for seed. The if a brown discolored area appearsexperience of the growers shows that that reaches through the potato the corresive sublimate in hot water only the early varieties are adapta- about one-eighth inch under skin it use a stone jar or some old pan as ble. the early varieties of this section. terial will or black-leg disease. A THIS COLUTION IS VERY POISON-The Early Ohio is the Standard table variety in demand. Bliss or Red tuber as result of this infection. Both MUST NEVER BE EATEN NOR FED Triumphs are in demand for south- dry rot organisms and blackleg pro- TO STOCK. (3) Be certain that the Cobblers, demand varies, are early field. To show the advantage of us- to the above directions.

other varieties.

enable the growers of this section to than a one-ounce seed piece, and an enable the growers of this section to compete with other sections. It will bring to the grower greater returns bring to the grower greater returns bring to the grower greater returns seed pieces are most desirable. Noth- treatment for potato diseases: and to the consumer greater satisfac- ing is gained by clipping off seed end of potato. By hill selection

The Box Butte Farmers' Associa- Ohio Station increased the yield of solve 4 ounces of corrosive sublim- potato markets whether diseased or tion has adopted the following pro- their potatoes about 75 bushels per

About the most important thing in make 30 gallons. economical production is the discardalone, but all steps are absolutely ing of all potatoes affected with dry and keep for 11/2 hours in the above necessary in order to make the de- rot or bacterial wilt. These are in- solution. Spread the treated potaternal diseases of the potato. A very toes out on a canvas or clean floor to scabby potato, however, well shaped

dry. When dry, the potatoes should It is important that only those is not a good seed potato. Upon ex- be cut and placed in sacks which PRECAUTIONS.-(1) To dissolve There-is a market demand for is safe to assume that this is the bac- this solution will corrode metal. (2) wet rot nay develop and destroy the OUS. AND TREATED POTATOES

ern seed trade. White Eurekas or duce characteristic wilting in the solution is made and used according and good yielders. Three varieties ing clean seed, demonstrations were FORMIC ALDEHYDE.—Pour 1 of this section and considering adapt-are enough for any section. conducted in 1915 under authority pint of formalin (formalin is a 40 ability to natural conditions a crop

planting another be sure all potatoes tural Botany by the County Agent on or tank. Place potatoes in a gunny 100 acres of farm land exclusive of of other variety are removed from the farms of four co-operators from sack and keep for 2 hours in the hay crops is—

Place, potatoes

planter. In marketing pick out all which the following results were se- above solution. Spread the treated Corn 20 acres cured. Whole two-ounce seed used potatoes out on a canvas or clean type, quality, yield, and to control The average yield of marketable, po- which have been disinfected.

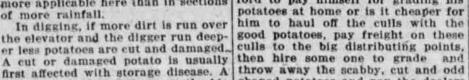
CORROSIVE SUBLIMATE - Dis- cut potato is thrown away at the big shaped potatoes and pay the dealers toes.

ate in 2 gallons of hot water. Add not. Running digger deep of course this solution to enough water to takes more horse power and the only questio nis whether best to use mare in a gunny sack horse power and have less damaged potatoes or not. In handling, care should be exercised to prevent injuring the potatoes. Best potato growers of the section handle their

potatoes carefully and state that they are well paid for same. The experience of the majoirty of potato growers in this section is that potatoes when planted on land following corn or a cultivated crop have best assurance of a good yield of well shaped smooth potatoes because they have a good seed bed on land free from trash and normally have more moisture conserved.

To the average livestock farmer Do not allow seed to mix in stor- of the Box Butte Farmers' Associa- per cent solution of formic aldehyde) system that will be fair to all crops In planting one variety after tion and the Department of Agricul- into '0 gallons of water in a barrel and to your potatoes on the basis of hay crops is--

> Potatoes 20 acres Small grain 20 acres 20 acres Small grain 20 acres



first affected with storage disease. A throw away the scabby, cut and odd possible to be stored with the pota-



POTATO INFECTED WITH RHIZOCTONIA OR STEM ROT

rightly a large insurance for handl-ing this grade of potatoes?" All this The above outline gives a practicis paid indirectly by the grower, by the lower price he received for the potatoes.

al plan for improving Box Butte potatoes and if followed as it' is by some growers the potato industry will mean more than ever to Box

The potato grower who is an av- Butte county.

GRADING POTATOES

Prevailing high prices for potaoes this fall was a strong temptation for growers to sell scabby potatoes, a practice that in the long run is not a profitable one, says the agricultural botany department of the university college of agriculture.

So long as a buyer for unsound potatoes could be found, their sale was profitable to the grower; but as buy-"s prefer to purchase from distircts which maintain a erputation for producing and shipping first-class stock, districts from which diseased stock has been unloaded on the market must expect to be offered lower prices than prevail in sections of favorable reputation.

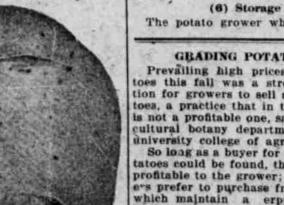
Western Nebraska has an opportunity to establish the potato indus- their work with the finest equipment try on a secure footing by insisting available in any college in the counupon the inspection and careful try.

grading of all potatoes sold in that region, by organizing an association of potato growers. The crop can then be sold under guarantee of the association.

CREAMERY COURSE

A four-months practical creamery course is to be offered by the dairy husbandry department of the University of Nebraska, Jan. 2 to April 14. The purpose of the course is to provide practical training for men interested in the commercial side of dairying. It takes up fundamental scientific principles and applies them in practice.

Men who take advantage of this course will have an opportunity to do



RED TRIUMPH POTATO

EARLY OHIO POTATO

EUREKA OR COBBLER POTATO

