

WEEVILS CAUSE SERIOUS LOSSES

Harvest Beans, Peas and Cowpeas Promptly After Maturity to Prevent Damage.

TREAT SEED BY FUMIGATION

Kill Insects Before They Can Increase in Numbers and Carry on Destructive Work—Growers Have Become Discouraged.

(Prepared by the United States Department of Agriculture.)

The serious losses caused by bean and pea weevils—which amounts to millions of dollars annually—is largely preventable, and by putting a stop to it a valuable and much-needed source of the nation's food supply can be saved. No satisfactory artificial remedies can be applied to kill weevil grubs in beans, peas or cowpeas growing in the field, but they can be easily and effectively controlled afterward if the necessary care is given. The crop should be harvested as soon as possible after maturity, and the seeds thrashed or shelled and treated by fumigation, heat or cold storage, in order to kill the weevils in them before they can increase in numbers and carry on their destructive work.

Weevils not only cause serious damage to peas, beans and cowpeas in storage but also in the field, and are responsible for a curtailment in the acreage planted in these crops. In some sections, particularly the coastal regions of the middle Atlantic states, this pest has carried on its work of destruction so successfully that growers have become discouraged and have discontinued to produce on a commercial scale these valuable food crops. Badly infested seeds are worthless for planting. In one experiment on record only 50 per cent of infested beans germinated, and of these 30 per cent were so badly injured that they could not develop into normal plants.

Harvest All Seed.

In gathering the crop, exercise care, the bulletin urges to leave no portion of it in the field, as seeds scattered on the ground or left in shattered pods on the dried vines, may carry the pest over winter, and furnish a supply of weevils the following summer. The crop should be harvested as soon as possible after reaching maturity and the seed thrashed or shelled soon afterwards. Storing in the pod does not confine the weevils. Immediately on placing the seed in storage, fumigate with carbon disulphid or carbon tetrachlorid. These chemicals when exposed to the air vaporize into a heavy poisonous gas which immediately kills the weevil. Carbon disulphid is the more generally used, though carbon tetrachlorid has the advantage of not being inflammable. Seed to be fumigated should be placed in an air-tight container, such as a tin can or barrel. The chemicals, used at the rate of from 2 to 4 pounds to each 500 cubic feet of space to be fumigated, should be poured over the top of the seed, and fumigation should continue for from 24 to 48 hours.

Killed by Heating.

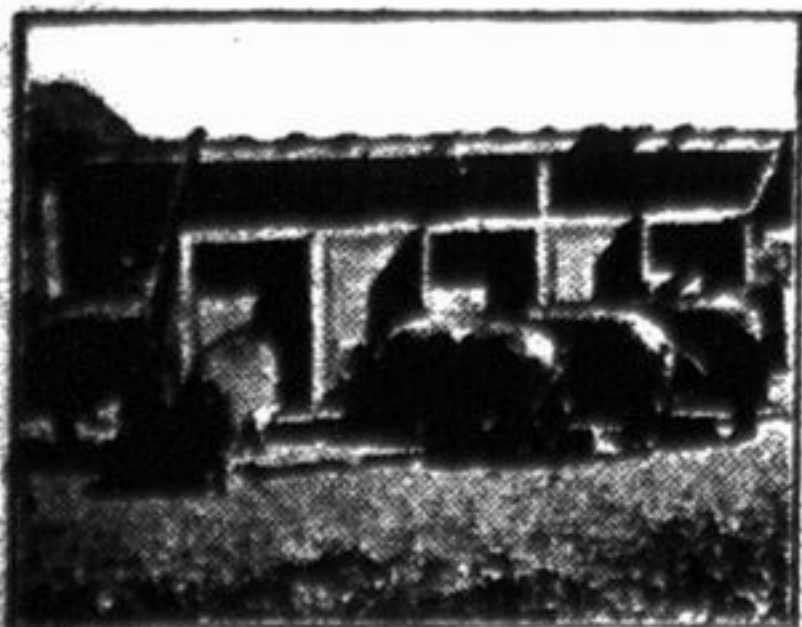
When there is only a small quantity of seed, the weevil may be killed by heating the seed in the oven for several hours. The oven should not be hotter than 120 to 145 degrees Fahrenheit. Dipping seed in boiling water for one minute is also an effective remedy. Weevils will not feed or cause damage at low temperatures, and if seed can be kept in cold storage at a temperature of 32 to 43 degrees Fahrenheit, no trouble from this pest will result.

URGES FISH MEAL FOR HOGS

Tests Conducted by Agricultural Department Show It Is Equal to Tankage in Feed Value.

(Prepared by the United States Department of Agriculture.)

To stimulate greater interest in the production of fish meal, which is a good substitute for tankage in the feeding of hogs, a representative of the United States department of agriculture recently visited a number of fisheries along the gulf coast as well



Hogs Feeding at Self-Feeder.

as a number of marketing centers in the South. Tests conducted by the department show that fish meal is equal in feeding value to tankage. It contains about 57 per cent protein. It is made by drying inedible fish and grinding fine. This meal is being used at the government farm at Beltsville, Md., to replace tankage. The menhaden fisheries on the Atlantic coast produce annually 10,000 tons of fish meal. Fisheries along the gulf coast and Chesapeake river have been making an experimenting as facilities have been constructed for processing the

DREW SALE SUCCESS

The Thos. Drew auction sale which was held Wednesday drew a fair crowd which bid very high on the articles offered. The machinery and other farming implements brought very high prices and the cattle went exceptionally well. Jake Klein bid in and bought a holstein cow with a calf by her side for \$190, which he says is the highest price he ever paid for one of the bovine critters. Joseph V. Dieter was the auctioneer. Mr. Drew will now make his home in the village.

FLAG AT HALF MAST

The flag at the south side school floated at half mast all day Tuesday and Wednesday morning in honor of Theodore Roosevelt, the true patriot and hero. Short talks were made in the various rooms of the school on the high ideals and true American patriotism lived by this great and good man. At 11:45 work was stopped in every room of the school for five minutes and the teachers and six hundred boys and girls sat in perfect silence.

149th ENJOYING SELVES

Corporal Gilbert R. Lacey, of Battery C, 149th F. A. of the Rainbow Division, writes to his folks that the Battery arrived in Winbauch, Germany, December 11th. This village has a population of 10,000. The boys had a fine trip into Germany altho they struck some rainy weather but not cold, and the sights were great. The people were very courteous to them everywhere. The boys are anxious to be on that long, long trail back home.

BLEACHED OATS ARE POOR SEED

Sulphur Process Brightens Grains, but It Reduces Germinating Qualities.

PAY ATTENTION TO QUALITY

Same Amount of Time, Labor and Money Required to Sow Field, Whether Viability High or Low—Buy Under Contract.

(Prepared by the United States Department of Agriculture.)

In the purchase and selection of oats for seed farmers are warned to be careful of grain that has been bleached by the sulphur process. This process is now used extensively by commercial grain dealers to give oats of inferior quality a bright, clean appearance. In experiments conducted by the specialists of the United States department of agriculture, it was found that in nearly every sample of sulphur bleached oats there was a great reduction in the germinating power. The largest reduction was in a sample which germinated 97.5 per cent before treating and 9.5 per cent after treating, or a total reduction in germination of 88 per cent caused by sulphuring.

Too much attention cannot be paid to the quality of seed for the same amount of time, labor and money is required to sow a field of oats, whether the viability of the seed be high or low, and the product will be influenced directly by the percentage of germination of the seed. A casual observer is probably more likely to be misled as to the true quality of oats than of any other grain for seedling purposes, because oats that have been sulphured present an attractive appearance; therefore special care must be taken to ascertain whether this appearance is due to bleaching by sulphur or whether it is natural.

Feed Oats Not Good for Seed.

It is not an uncommon practice throughout the smaller out-growing areas for farmers to use for seed, oats that have been purchased for feeding purposes, especially when these oats appear to be of good quality. Frequently very poor yields are obtained from feed oats, because these oats may have been sulphur bleached.

Seedmen generally lay their oats under contracts, stipulating that such oats shall germinate not less than a specific percentage, and further that they shall not be sulphur bleached. This provision, of course, safeguards the farmer when he buys oats from a seedman who states that such oats are suitable for seed. However, as there is no general regulation governing oats handling in intrastate transactions which requires that sulphured oats are to be labeled as such, the farmer generally is without protection and often sows oats that have been sulphured.

Process of Bleaching.

Two processes are in use in bleaching oats; known as the cold process and the warm process, the only difference being that in one case steam is used to moisten the grain and in the other cold water is used. As the moistened oats fall from the top of a tower they pass through sulphur fumes which come in contact with every kernel. After the oats have passed through the bleaching tower they are usually run in a bin and allowed to stand over night when they are cooled or dried as necessity may require.

SIRUP WILL REPLACE SUGAR

Novel Scheme Being Carried Out in Nebraska Community—Demand Bigger Than Supply.

(Prepared by the United States Department of Agriculture.)

A scheme to utilize a part of the sorghum crop for making a sugar substitute for human food is being carried out in Douglas county, Nebraska. In one community, through the efforts of the local county agent, six farmers co-operated in purchasing a small



At Work in a Sirup-Making Mill.

sorghum mill, and secured the services of an experienced sorghum-sirup maker. Although the sirup made at this mill is being sold at \$1.25 to \$1.50 a gallon, present indications are that the demand cannot be met. Five sorghum mills are now in operation in the county.

Theodore Roosevelt, American

Born October 27, 1858 Died January 6, 1919



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Theodore Roosevelt, American is dead.

All the world knew him as a man's man and respected America for him. Soldier, statesman, author, explorer, his country was his great love. It was a divine passion. It made him the apostle of preparedness. It inspired him to offer his life and that of all his sons for his land. It made him suffer when a countryman was subjected to foreign affront.

Intensely proud of his country he wanted all the world to understand that the American on lawful mission was free to go where he willed, that a mighty nation was his protector.

It was a grievous hurt when his son, Quentin, fell in flames from the sky but he exalted in the thought that his "baby" had died fighting for the loved land.

The Roosevelt name is going to be an American tradition. Not only for the achievements of the father and sons but because of the humaneness of the great leader.

He was elemental. He loved men, he loved children, he loved outdoors, he was "Teddy" with the masses. What they liked he liked and what he did they did. It is because of this, rather than his great achievements, that his name will live everlastingly.

CARD OF THANKS

We wish to thank our neighbors and many friends for their expressions of sympathy and the floral offerings in the death of our loving husband and father.

Mrs. D. F. Delaney and Family.

NOTICE

As Mrs. F. LeBlanc is closing my accounts I would appreciate a prompt settlement in her favor and wish to thank you sincerely for past patronage.

Dr. F. LeBlanc.

Reporter Want Ads bring results. Try 'em.

Surprise For Captain "Bal" Sure Fire Hit

(Continued from page one)

abilities of Company H members, Privates Verdenius, and Tank, sergeants Browne and Downes, Lieut. Carpenter and Captain Balczynski, receiving attention from a doggerel muse.

The changes were also rung on an Hawaiian maiden to whom a throaty farewell was repeatedly sung.

A letter from former Lieut. Rollo Bennett, was read. Coffee, sandwiches, apples and smokes were served and the gathering broke up shortly before midnight.

LAND WASTED HERE?

Otto Eichorst and family of Albert City, Iowa, are visiting his folks and friends and relatives in and around Downers Grove. Mr. Eichorst says it makes him feel ashamed to think of such a lot of land lying around under water when it would raise thousands of bushels of grain every year if the people only would get together and drain their land. Take a tip from Iowa and make this a better county in which to live. He says there are no such sloughs in the part of Iowa as there are around his old home town

Reporter Want Ads bring results. Try 'em.



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