

# 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

## 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 nonedible 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 can produce annually 10,000 tons of fish meal. Fisheries along the gulf states and Mississippi river have been wasting or manufacturing as fertilizer large quantities of nonedible fish.

## PIG CHAMPION WAS SUCCESS

High Price of Grain Threatened Hog Industry of Pacific Coast—Danger Was Averted.

(Prepared by the United States Department of Agriculture.)

Five thousand one hundred and five California farmers pledged themselves to keep 21,000 more pigs in 1918 as the result of a campaign carried on by farm bureaus to persuade every member to raise two more pigs than he would otherwise have done. The purpose of the campaign was to counteract the situation brought about by the high price of grain, which was resulting in the wholesale slaughter of brood sows and young pigs. Fourteen days after the campaign started the danger which threatened the hog industry of the Pacific coast was averted. In addition, the agitation and the publicity gained has increased the interest of both farmers and fruit growers in hog raising and has caused large breeders of hogs to keep up their stock.

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.

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.

## BERMUDA GRASS IS VALUABLE AS FEED

Troublesome Weed Makes Good as Sod and Pasture.

Susceptibility of Root-Stocks to Winterkilling and Its Inability to Withstand Shade Make It Easy of Eradication.

(Prepared by the United States Department of Agriculture.)

Bermuda grass is one of the most valuable as well as the most troublesome grasses of the Southern states. This vigorous growing perennial spreads rapidly, making a thick sod which is well suited for pastures and lawns. The same characteristics that make it so valuable also render it one of the principal weeds the eradication of which is essential to the successful growing of intertilled crops. The plant has certain natural weaknesses, such as its inability to withstand shade and susceptibility of the root-stocks to winterkilling, which can easily be made use of in its eradication.

The most widely practiced and successful control measures, especially in the Southwestern states, is a combined attack upon these two weak points by alternating a summer shade crop, such as velvet beans and cowpeas, with intertilled crops, such as corn and cotton, keeping the soil occupied with growing oats or rye, with or without vetch, during the winter.

Hogs are also useful in eradicating this grass. They are fond of the root-stocks, and they will be aided greatly in the good work if the land is first plowed. A good system is to graze the land an entire season, continue the grazing the following season until mid-summer, then plow shallow to expose the root-stocks to the drying action of the sun and the persistent rooting of the hogs.

Bermuda grass was at one time looked upon solely as a pest, but in view of the fact that it is exceedingly valuable for pasture, hay and lawn purposes, the plant has been widely utilized throughout the cotton belt and its value is far in excess of the damage which it causes.

## More Feed for Hogs.

The hogs can stand a little more feed this cool weather. Push them along, for the world needs every extra pound of meat they can be made to put on.

## Be Cautious With Alfalfa.

Whether you have ever raised alfalfa or not, do not undertake to fit a piece of ground larger than you can work as it should be.

## Have Good Implements.

Prices of all kinds of farming implements have advanced, but that does not mean that farmers are justified in doing without good implements.

## Take Care of Sheep.

Take great care of your sheep and lambs. Wool is greatly in demand, so is mutton and lamb meat, so above all are breeding ewes.

## Hogs Harvesting Crops.

Hogs harvesting a corn and soy bean crop will make faster and cheaper gains than if fed the same feed by hand.

# OREGON LEGISLATURE

High Lights in Legislative Session Just Closed.

Ten million-dollar bond issue for good roads put through.

Proposal for 1-mill road tax to raise \$1,000,000 approved.

Increased license tax on automobiles will add an additional \$400,000 to the state's funds. Tax follows: For motor vehicles up to and including 23 horsepower, \$15; for motor vehicles up to and including 26 horsepower, \$22; 30 horsepower, \$28; 36 horsepower, \$36; 40 horsepower, \$48; in excess of 40 horsepower, \$56.

Definite policy of expenditure of \$5,000,000 for a comprehensive building program of permanent improvements for the state and for the opening wedge toward an eventual gigantic scheme of land settlement, based on the premise of aiding the soldiers, sailors and marines first, but not to overlook the private citizen.

The legislature definitely passed an act providing for a land settlement commission and appropriating \$50,000 for that purpose. The \$5,000,000 bond issue that is passed up to the people will broaden the service to be rendered by the land settlement commission.

As other aid to returning soldiers and sailors the legislature passed a \$100,000 emergency fund, for their immediate relief, the money from this fund to be loaned to the needy ones. Out of this was also taken \$5000 to be used in New York for helping the men landing there from overseas on their way back to Oregon. The legislature also will submit to the people for their approval a proposal to provide state aid to the soldiers who desire to receive education, this provision to consist of \$200 a year for four years to the men who qualify under the act.

Consolidation completely fizzled out, and in its stead came a few occasional new commissions, but not many.

Some important changes were made in educational legislation. A minimum wage of \$75 a month was provided for the teachers of the state.

The state provides for vocational education in connection with the schools. Educators consider this one of the most important victories of the session, despite the fact that the measure invoked but little discussion during the passage through the legislature. Provision was also made for part-time schools, and in this was enacted a provision raising the school limit age from 16 to 18 years, another change which has been fought by school men.

Famous oleomargarine bill is hailed as a victory by the dairying interests. Provides for a license tax on the manufacturer, wholesaler and some of the distributors of oleomargarine, but not on the retailer.

One exceedingly important piece of legislation was the passage of the bill providing for a board of conciliation and arbitration. Board, however, has not inherent powers to force a settlement of labor disputes and must depend upon publicity attendant upon its findings.

Bill defining criminal syndicalism covers a wide field in the effort to suppress tendencies toward bolshevism. The red flag was also made taboo in another act.

Labor won one of its biggest victories this session by passage of the Horne bill, which legalizes labor unions and writes upon the statute books of the state practically a replica of the Clayton amendment to the federal Sherman anti-trust law. This bill, among other things, prevents the issuance of injunctions against strikes that are peaceably conducted.

Ten-round boxing measure includes plans for municipal boxing commissions to be discretionary with various cities and towns and some amendments to the fish and game code passed.

Powers of the board of health enlarged, especially in the handling of epidemic conditions, and codifies the laws already in force.

Agricultural and livestock interests secure considerable recognition. A great sheet of amendments to the irrigation laws were passed, being mainly detailed in their report.

New domestic relations court being established in Multnomah.

Port of Portland is given extensive powers and new commission named.

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