GROCERIES AND MEATS



Oh! Ham

We don't sell just "Ham." We sell Armour's "Star." The ham of hams-"The Ham what am."



"ON THE CORNER"

You Can Save Money by

Trading at

J. P. Colburn's cash store

Imported and Home-Bred Stallions

FOR SALE



We Have Two-year-old Colts Weighing Over 1800 Pounds Call and Inspect Them Headquarters at PALACE LIVERY BARN SMITH & WILSON, Props ALLIANCE, NEBRASKA

NELSON FLETCHER FIREINSURANCEAGENCY

REPRESENTS THE FOLLOWING INSURANCE COMPANIES.

Hartford Fire Insurance Company.
North American of Pulladelphia.
Phoenix of Blooklyn, New York.
Continental of New York City.
Niagara Fire Insurance Company.
Connecticut Fire
Commercial Union Assurance Co., London
Germania Fire Ins. Co.
State of Omaha

Liverpool. London and Globe Ins. Co. German American Ins. Co., New York. New Hampshire Fire Insurance Company. Philadelphia Underwriters. Phoenix Ins. 'o., Hartford, Conn Firemans Fund Insurance Co. Rechester German Ins. Co. Office Up-Stairs. Fletcher Block.



Wallace's Transfer Line

Household goods moved promptly and transfer work solicited. Phone I Frank Wallace, Prop'r.

Al Wiker

Grand Island Granite Marble Works

All kinds of Granite and Marble Tombstones and Monuments. Lower prices and less freight than from firms farther east

Wm. James,

Exclusive Dealer in

COAL &

... WOOD

No. 5.

Alliance, Nebraska.

A. D. NEW AUCTIONEER

ELLSWORTH, NEBR.

Col. New has had 25 years experience and is one of the most successful auctioneers in the northwest.

Dates made at this office



When a Plumber is Needed

send for us. We have plenty of time now to attend to all classes o t v This is not our busy season and it wil pay you to have your

PLUMBING, HEATING, FITTING,

etc., attended to now before the rush of work begins. We are thoroughly posted in our business and an order from you will promptly put all our knowledge and skill at your service The cost will not be great.

Fred Brennan

Public Stenographer

Commercial Club Room

Basement Phelan Opera House Blk.



FOR SALE BY

Brennan

Home Course In Modern Agriculture

X.-Some Insect Pests

By C. V. GREGORY.

Agricultural Division, lowa State College

Copyright, 1909, by American Press Association dunmenment of the same

farmer has to combat perhaps none are more troublesome than insects. Nothing is more aggravating than to have a promising trop of fruit or grain attacked by a horde of "bugs" and greatly injured If not entirely ruined.

Insects, like weeds, are very difficult to deal with if you go at them one at a time, but if properly managed they tan be easily held in check, From the standpoint of the damage they do, insects may be divided into two tlasses-those which attack field crops and those which are injurious to fruit and garden crops.

which attack corn. While these are grown on a quarter section each year amounts to no small sum.

One of the most important of these pests is the corn root worm. The during the next June or July. The of July. worms when full grown are about one-third of an inch long and as big around as a pin. They bore up inside the roots, injuring them so badly that the growth of the plant is seriously checked. Often, too, the roots are so weakened that the corn blows down badly. Some time during August the worm goes through a transformation called pupation, which changes it into a small light green beetle. This beetle feeds on the silks and tips of ears and lays eggs for the next year's crop of worms.

Another insect which lives on the roots of corn is the root louse. These lice are very small and helpless. They are kept through the winter in the egg stage in ant hills. In the spring after they hatch they are placed on the corn roots by the ants. The ants are very fond of a sweet fluid which is secreted by the lice, and they take care of them for this purpose.

Other insects which do more or less damage to the corn crop are the stalk borer, wireworm, white grub, bill bug, cutworm, etc. These insects live and multiply in grass land and from there find their way into the adjoining cornfields. They do the greatest damage, however, when the grass land is

plowed up and put into corn. The damage from nearly all insects affecting corn, small grain or grass can be readily prevented by a good system of rotation. This is especially true if clover is used, since such insects as cutworms and grubs do not work to any extent on clover. The frequent plowing of the ground and change of crops where a rotation is followed are fatal to most insects. Damage from these pests will be still further reduced if the soil is kept so well supplied with plant food that the plants can get a quick start in the spring. Treated in this way, they are more vigorous and better able to withstand insect attacks.

These remedies, with the exception of the last, cannot be applied to or-



FIG. XIX-CORN PLANTS INJURED BY ROOM

chard and garden crops, since these must be grown on the same land year these crops spraying is the best rem-

The principal insect that attacks the apple is the codling moth. These insects pass the winter in a ball of silk, or cocoen, which they spin around themselves. These cocoons are hidden beneath the bark and under rubbish. Such as happen to escape the hungry search of woodpeckers and other birds change to the pupa stage in the spring. In this stage changes take place innide the body of the worm which so

over again, and a second broad of the age.

moths appears about the middle of July. It is this brood which does the most damage. It is the worms which hatch from the eggs laid by them that are so often found in fall and winter

Many poisons, of which paris green is the one most commonly used, are effective in destroying the codling moth. Paris green is usually used in connection with bordeaux mixture, which is a remedy for the various fungous diseases which affect the leaves and fruit.

To make this mixture dissolve five pounds of copper sulphate and five pounds of lime separately in twentyfive gallons of water each. When they are thoroughly dissolved mix the two seldom present in large enough num- solutions and add four ounces of paris bers to destroy any considerable part green. The lime in this solution is of the entire crop, the money value added to prevent the chemicals from of the damage they inflict on the corn injuring the leaves and to make the mixture stick better.

Three sprayings are sufficient for the codling moth. The first should be given immediately after the blossoms eggs, which are laid in the cornfield fall, the second from ten to twenty during August or September, batch days later and the third about the last

> One of the chief insect enemies of the plum and one which also attacks many of the other fruits is the curcu-



FIG. XX-A SPRAYER AT WORK

lio. The curculio beetle lays its eggs in the young fruit shortly after it sets. In doing so it leaves a half moon shaped scar, which is its trademark. One of the surest ways of getting rid of this insect is to jar the beetles from the tree at this time.

Spraying is also an effective remedy. The bordeaux-paris green mixture may be used, but arsenate of lead is better, since it is less liable to injure the leaves. It is applied at the rate of three pounds to fifty gallons of water. Phone 492 The spray should be applied just before the blossoms open, just after they fall and again about fifteen days later. Poisonous sprays should never be ap-Poisonous sprays should never be applied to fruit trees while they are in Undertaker and Embalmer blossom. It is not necessary in order to destroy the insects and will kill many of the honeybees, upon which the blossoms are so dependent for pollinstion.

The insects that have been mentioned so far live by eating the leaves and fruit and in doing so take up enough of the poison to put an end to their destructive work. There is another class of insects, however, for which such remedies are not effective. These are the sucking insects, of which plant lice are the most common examples. Insects of this kind feed by drilling through the outer layer of the leaf or bark and sucking the plant juices. They thus escape damage from any poison which may be on the

To get rid of sucking insects some substance which will kill by coming in contact with them must be used. There is nothing better for this purpose than kerosene emulsion. This is made by dissolving half a pound of soap in a gallon of boiling rainwater. This mixture is then taken from the stove and two gallons of kerosene added. 'The compound should be churned violently for a few moments by pumping it up with the spray pump and back into the pall. This causes the oil to mix thoroughly with the water. Before using, this original mixture is diluted with six to ten parts of wa-

A common insect affecting garden crops and one that is hard to handle is the striped cucumber beetle. This is a serious enemy of cucumbers, squashes, melons and other plants of like nature. Spraying does little good and is liable to injure the tender plants as well. Where but a few bills are raised, covering them for the first after year. For the insects affecting two weeks with a small box with mosquito bar stretched across the top is a good preventive measure. Another effective plan is to go over the patch in the morning while the dew is on and the beetles cannot fly, knock them to the ground by giving the plant a Phone 605 slight blow and put a drop of kerosene on each one

Where any of these crops are raised on a large scale the most effective remedy is the use of "trap plants." Plant the field to squashes a week or ten days before time to plant the main transform it that early in June it crop. The beetles are especially fond comes out of the cocoon as a small of squash plants and will gather on them in large numbers as soon as they These moths lay great numbers of come up. Just about the time the otheggs, which hatch into small worms. er plants begin to peep through the These worms cat their way into the ground the squashes can be sprayed apple through the blossom end. The with very strong kerosene emulsion. apples thus affected usually fall off. This will destroy both the squash and in a short time the worms crawi plants and the beetles. There will out and again spin cocoons around usually not be enough of the latter left themselves. The life cycle is lived in the neighborhood to do much dam-

Miss M. Ruth Taylor TEACHER OF PIANO

416 Niobrara Ave. Phone 381

DR. C. L. WEBER

DISEASES OF Eye, Ear, Nose and Throat

SCIENTIFIC REFRACTION

DR. G. W. MITCHELL,

Physician ane Surgeon Day and night cells. Office over Bogue Store, Phone 150.

H. A. COPSEY, M. D.

Physician and Surgeon

Phone 360 Calls answered promptly day and night from office. Offices — Altiance National Hank Building over the Post Office.

DR. CHAS. E. SLAGLE

DR. BELLWOOD

Special Attention Paid to Eve Work

GEO. J. HAND.

HOMEOPATHIC PHYSICIAN AND SURGEON Formerly Interne Homeopathic Hos-pital University of Iowa.

Phone 251. Office over Alliance Shoe Store Residence Phone 251.

DR. C. H. CHURCHILL PHYSICIAN AND SURGEON

(Successor to Dr. J. E. Moore) OFFICE IN FLETCHER BLOCK Office hours-11-12 a.m., 2-4 p.m. 7:30-9 p,m. Office Phone 62

Res. Phone, 85 Drs. Bowman & Weber PHYSICIANS AND SURGEONS

First National Bank Bldg. Rooms 4-5-6 Office hours, 10 to 12 a. m., 1:30 to 4, 7 to 8 p. m. Office Phone 65 Res. Phone 16 & 184

Drs. Coppernoll & Petersen

OSTEOPATHIC PHYSICIANS (Successors to Drs. Frey & Baife)

17 and 18 Rumer Block Office Phone 43, Residence 20

AUG. F. HORNBURG **Private Nurse**

T, J. THRELKELD,

OFFICE PHONE 498 RES. PHONE 207 ALLIANCE, NEBR.

WILLIAM MITCHELL,

ALLIANCE, . . NEBRASKA,

EUGENE BURTON

Attorney at Law Office in rooms formerly occupied by R. C. Noleman, First Nal'l Bank blk 'Phone 18o. ALLIANCE, NEB.

H. M. BULLOCK. Attorney at Law. ALLIANCE, NEB.

LAW AND LAND ATTORNEYS. Long experience in state and federal ourts and as Register and Receiver U. S. Land Office is a guarantee for prompt and efficient service

WILCOX & BROOME

Office in Land Office Building. ALLIANCE - NEBRASKA.

THE GADSBY STORE **Funeral Directors and Embalmers FUNERAL SUPPLIES**

OFFICE PHONE 408 RESIDENCE PHONES 207 and 510

GEO. W. MILLER GRADUATE PIANO TUNER

Repairing a Specialty 507 Sweetwater Ave.

N. STURGEON

S. G. Young

Sturgeon & Young DRAY LINE

(Successors to G. W. Zobel)

Office Phone 139.

Residence Phone 142.