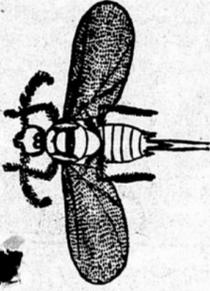


THE MAPLE BARK LOUSE.

Its Destruction to Shade Trees in Portions of Ohio.

According to a newspaper bulletin just issued by C. M. Weed, Entomologist of the Ohio Experiment Station, the maple bark-louse has become destructively numerous over a large portion of Ohio, and is creating much alarm by its presence. It is especially at work upon the shade trees of cities and villages, and unless checked will do serious injury. The presence of the pest is shown by the occurrence upon the twigs of maple trees, especially on the under side, of a brown, circular, leathery scale about one-quarter of an inch in diameter, beneath which is a fluffy, cottony mass, that at this time is alive with hundreds of young lice, appearing to the unaided eye as minute, black moving about.

Maple bark louse is an insect belonging to a family of peculiar habits and histories. Under each of the scales

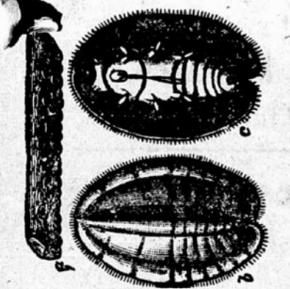


MAPLE BARK-LOUSE, MALE.

there was a month ago from 700 to 1,000 small white eggs. These eggs have since hatched into young lice which are now scattered over the trees, and will soon fix themselves upon the leaves where they will remain throughout the season. They insert a tiny beak into the leaf and suck the sap. In autumn, before the foliage drops, they desert the leaves and fasten themselves to the twigs. Much of the sap that is sucked from the foliage passes through the bodies and falls to the ground. This is called honey dew.

In cities the simplest and easiest plan to get rid of them is to force a stream of water from a hose into the trees and thus wash off the scales and young lice. Of course a single washing can not be expected to clear the trees completely, but the treatment should be repeated several times.

The more water pressure on at the time of treating, the better. When this simple water treatment is not practicable,



MAPLE BARK-LOUSE, FEMALE.

the next method I would suggest is spraying with what is known as kerosene emulsion.

This is made by adding two parts of kerosene to one part of a solution made by dissolving half a pound of hard soap in one gallon of boiling water, and churning the mixture through a force pump with a very small nozzle, until the whole forms a creamy mass, which will thicken into a jelly-like substance on cooling. A soap solution should be hot when kerosene is added, but of course must not be near the fire. The emulsion thus made is to be diluted before using with twelve parts of cold water. This must be applied soon after the lice hatch with a force pump and spray nozzle. See that the kerosene is thoroughly emulsified, else it is liable to injure the foliage.

Grasses for Swine.
One of the most noted swine breeders of the country once said that careful observation had shown that one acre of clover is worth more than three acres of wheat, and as much as two acres of corn or oats for hogs. Blue grass is equally good for early and late feeding. Take good grazing hogs and by judiciously feeding corn while on grass, you can produce pork from one and a half to two cents per pound. Grass not only furnishes muscle and fat, but is rich in bone material, distends the digestive organs, and frees the system of worms. Farmers should raise hogs that are good grazers, for as a rule good grazing stock are good feeders. This gentleman once exhibited a noted hog at the Indiana State Fair which was a good example of what clover and a few ears of corn each day will do. Three hundred pounds of his weight did not cost over four dollars. His grazing qualities are only indicative of his feeding. When he was fed full, prior to exhibition, he gained over four pounds per day. Stock kept on dry feed for a few generations are not good grazers; the stomach becomes too small to allow the taking in of a large quantity at once. A correspondent of a live stock paper inculcates the doctrine that if you keep the stomach of the hog properly distended summer and winter by feeding bulky food, such as grasses in summer, roots, bran and slop in winter, we will increase the grazing qualities of the hog and place them in a condition to resist disease.—Western Rural.

Gum about the collar of the peach tree, says the Farmer of Michigan, particularly if flecked with what looks like sawdust, indicates the presence of the borer. Bare the collar, scrape the gum and dirt away, wait a day, and fresh sawdust will be seen about the hole in the bark in case the insect is there. Explore the residence with a knife or a piece of stout wire, and his occupation is ended.

BAGGING GRAPES.

An Easy and Simple Way of Doing It Quickly and Well.

By the operation of bagging partial exemption from rot is secured, as well as more or less complete exemption from sun scald and from the attacks of birds and insects. It also protects from frost in the fall, permitting grapes to hang much longer on the vines without fear of injury than would be possible were they unprotected. It is, however, an expensive process when done upon a



FIRST POSITION.

large scale, and retards the ripening somewhat. The time of bagging varies with different persons, some applying the bags as soon as the blossoms fall or even before, others even advocating as late as when the grapes begin to color, so as not to retard ripening. The latter time, however, would be too late to prevent rot.

The best time is usually as soon as the grapes are the size of small peas. Good manilla bags, No. 1 size for Dela-



SECOND POSITION.

wares and Nos. 2 and 3 for varieties with large clusters are best. Sometimes more than one cluster may be put in a single bag, when a still larger one is necessary. Our illustrations, Figs. 1, 2 and 3, show with little explanation the manner of applying the bags. Fig. 1 shows the manner of slitting the bag



COMPLETED.

so that it may be drawn closely around the cane. Fig. 2 shows one side folded over, and Fig. 3 shows the operation completed. A hole should be made in the lowest part of the bag to allow any water which may possibly enter to escape. In gathering, the grapes are picked and stored with the bags on, care being taken in handling, and in a cool place they may be kept for a long time in perfect condition.

Corn, Thick and Thin.

The Connecticut Experiment Station calls attention to the fact, which may be interesting to cultivators, that grain in general needs thicker planting on poor than on fertile soil, and that the lodging of grain results from the too crowded growth when the plants shade each other too much, become watery, and for this reason a manured piece of land may give a less return than a more sterile one under certain conditions. A series of experiments were made by the station to determine the relative value of certain dent and flint varieties of corn. Both were planted at different and measured distances in rows four feet apart. The unexpected result was reached that the dent would bear closer planting and give heavier returns from thick planting than the flint, although the dent was taller, larger, had heavier leaves, and larger and longer ears. The flint yielded the heaviest crop when planted one foot apart in the row, while the dent produced the most with two stalks to a foot. This remarkable difference in favor of the thickest planting for the continued selection of seed of this particular sub-variety of the dent for the past fifteen years, with a special view to this superiority; and it affords a strong recommendation of the practice of continuous selection with valuable points in view. This continued reproduction of plants from the seed, continuously produces new varieties, but this improvement is not to be expected in case of the potato, which is not increased by seed but only from cuttings of the underground stems.

CALIFORNIA orange growers report wonderful profits from their groves. The land is held very high, but the profits of an orange grove, if one may believe reports, is immense. Net profits range from \$200 to \$600 and \$700, and in an exceptional case, to \$1,000 on lands held at \$350 to \$500 an acre, with water.

Business Locals.

Farmers depositing wheat at Beloit Mills, taking due bill, can take flour at our EXCHANGE STORE in Canton.

DONOHO & HENDERSON.

We do not promise to sell you ground feed, shorts, bran and other millfeed as cheap at our store in Canton, as we sell 'at the mill.' Do not be deceived.

DONOHO & HENDERSON.

United States Stock Food will cure all diseases arising from impurities of the blood. It is a sure preventive of hog and chicken cholera and cleanses the system from worms. For sale by D. S. WALDO, Canton, S. D.

FLAX STRAW.

I have leased the tow mill of L. C. Paxton & Bro's, and will commence buying straw at once.

S. S. DUNN.

MONEY!

We are prepared to make loans on real estate security at the very lowest rates obtainable also give borrower privilege to make payments on principal during the continuance of loans. No extra charge made for exchange on interest or principal payments. Those desiring to make new or renew old loans will do well to call at our office and get our rates etc.

ZELLER & HUETSON.

THE PROGRESSIVE FARMER.

RALEIGH, N. C.

L. L. POLK, Editor.

Official Organ of the North Carolina Farmers' State Alliance.

8 Page, 48 Column Weekly—All home Print.

Only \$1.00 per Year.

Wholly and entirely devoted to the promotion of the Alliance and to the advancement of the agricultural interests of the country. Send for specimen copy. Address: THE PROGRESSIVE FARMER, Raleigh, N. C.

A. G. VROMAN,

—DEALER IN—

FRESH AND SALT MEATS.

I want all the Chickens I can get. Poultry and game in their season.

FRESH FISH EVERY THURSDAY.

Cash paid for Illides and Tallow.

E. A. TAYLOR, M. D.

Office in Sinclair Block

Beresford, - - - South Dakota.

NOTICE.

The independent voters of Canton township, Lincoln county, will meet at the old Bennet place Thursday the 4th day of September at one o'clock p. m., for the purpose of selecting six delegates to represent said township in the county convention to be held at the court house in Canton on the 9th of September 1903.

Every voter of Canton township who is in sympathy with the independent movement is invited to be present.

J. E. HORTON, Committee.

SHERIFF'S SALE.

Notices is hereby given that by virtue of a general execution, to me directed, issued out of the clerk's office of the circuit court, of the state of South Dakota, in and for Lincoln county, upon a judgment rendered in said county in favor of H. B. Tomlinson and E. B. Tomlinson, Jr., and against Henry Wheelhouse and W. H. White, I have levied upon the following described real estate as the property of the said W. H. White, to-wit:

The south-west quarter of section eighteen (18), township ninety-eight (98), north, of range fifty-one (51), west, in Lincoln county, state of South Dakota, and that on the 15th day of September A. D. 1902, at ten o'clock in the forenoon of said day at the front door of the court house in the city of Canton, Lincoln county, South Dakota, I will proceed to sell said property, or so much thereof as may be necessary, to satisfy said execution, amounting to forty-two and 70/100 dollars, together with accruing costs, at public auction, to the highest and best bidder for cash.

B. B. WRIGHT, Sheriff of Lincoln county, S. D.

M. E. RUDOLPH, Attorney for Plaintiff, 84

SHERIFF'S SALE.

Notice is hereby given that by virtue of a general execution to me directed, issued out of the clerk's office of the circuit court, of the state of South Dakota, in and for Lincoln county, upon a judgment rendered in said court in favor of the American Eagle Tobacco Company and against Henry Wheelhouse and W. H. White, I have levied upon the following described real estate as the property of the said W. H. White, to-wit:

The south-west quarter of section eighteen (18), township ninety-eight (98), north, of range fifty-one (51), west, in Lincoln county, state of South Dakota, and that on the 15th day of September A. D. 1902, at eleven o'clock in the forenoon of said day at the front door of the court house, in the city of Canton, Lincoln county, South Dakota, I will proceed to sell said property, or so much thereof as may be necessary, to satisfy said execution, amounting to fifty-one and 75/100 dollars, together with accruing costs, at public auction, to the highest and best bidder for cash.

B. B. WRIGHT, Sheriff of Lincoln county, S. D.

M. E. RUDOLPH, Attorney for Plaintiff, 84

ANNOUNCEMENT.

MAPLE GROVE, August 2.—EDITOR FARMER'S ADVOCATE.—The friends and neighbors of Henry Barcum, of this (Lincoln) township, having secured his consent, hereby announce that they will present his name before the coming independent county convention, as a candidate for the office of sheriff of Lincoln county, and desire to invite for their candidate, the support of all who are interested in having the sheriff's office filled with an honest, competent and reliable man.

MISSOURI World: The meanest man living has been found. He prates about liberty, complaining about oppression, denounces monopoly, talks of revolution and admits that he has been robbed of the products of his toil by class legislation, and on the day of the election casts his ballot for men who will continue the same state of affairs. He deserves a chromo of hanging, which?

DAVENPORT'S BARGAIN STORE.

We desire to say that it has taken less than one year to convince a good many people of Canton and vicinity, that we handle our goods on a lower margin than any other firm in Lincoln county. Our motto is always to sell the best for the least money, and as our trade increases prices will continue to go down as fast as possible. We sell as we advertise and any goods you may buy of us that are not perfectly satisfactory in every respect you can return and get your money.

We are now receiving our fall stock and if you have not yet made the acquaintance of this store, you are invited to do so, and you will find it full of household goods, notions, etc., at the very lowest prices.

- Acme fry pans, large, 25c, small size, 10c.
- Safty lift Tubular lanterns, 40c.
- Three bottle breakfast casters, 25c.
- China cream pitcher, 10c.
- Colanders, 15, 20 and 25c.
- Coffee pots copper bottom 35c.
- Lamp chimneys, crimped top all sizes, 5c.
- Wicks per dozen, 3c.
- Brass burners 5c.
- Wash boilers copper bottom, \$1.00, \$1.25 and \$1.50.
- No. 9 tea kettles copper bottom, 75c; No. 8 60c.
- Tea kettles all copper, \$1.00, \$1.25 and \$1.40.
- One hundred clothes pins 10c.
- 75 foot—wire lines 25c; cotton rope lines, 10c.
- Milk strainers, 10c.
- Flaring pails, 15c to 25c.
- Galvanized iron wash basin, 10c.
- Egg beaters, 10c.
- Nickle plated shears, 15c, 20c and 25c.
- Cast scissors, 5c.
- Steel button hole scissors, 35c.
- Knives and forks, polished ebony handles, steel blades, 60c, per set or 5c each.
- Bread and butcher knives, 10c.
- Pocket knives, 2, 3 and 4 steel blades, 25c to 50c.
- Mincing knives, single blade, 5c; double blade, 10c.
- Best eye goggles, fifteen cents.
- 8 inch heavy rubber combs, 10c; 6 and 7 inch, five cents.
- Fine combs, five, seven and ten cents.
- Hair brushes, ten and fifteen cents; metallic, ten and twenty-five; all bristle, thirty-five to fifty cents.
- Willow cloth baskets, 60 to 75 00c.
- Large willow market basket, 40c.
- Lunch baskets, 10 15 and 20c.
- Willow Hampers with covers, \$1.00, 1.25 and 1.50.
- Doll cubs, 40c.
- Milk pans 6 qt, 8c; 8 qt 9c, and 10 qt, 10c.
- Deep pudding pans, 2qt, 5c; 4qt, 8c; 6qt sauce pan, 25c; 1 gal oil can, 20c.
- Ladies fast black hose, 20 and 25c; childrens, 10 to 12c.
- Mens Rockford socks, seamless, 8c; heavy suspenders, 25c.
- Silveren dust pans, 5 and 10c.
- Doll babies all shapes and sizes, they are as cheap as cloth pins at 10c per peck.
- Full line of notions that we have not space to list.
- Remember the place.

Davenport's BARGAIN STORE.

I. N. MENOR.

N. M. JACOBSON.

Menor & Jacobson,

—DEALER IN—

Dry Goods, Notions, Groceries, Fruits and Provisions.

We carry everything usually kept in a first class store and our facilities are such as will enable us to sell goods at

ROCK BOTTOM FIGURES.

We handle no shelf-worn or shoddy stuff, but the very best goods that money will buy, and guarantee perfect satisfaction in every department of our business. Call and be convinced.

MENOR & JACOBSON.

WEST SIDE MAIN ST.

CANTON, S. D.

Agitator, Agitator, Agitator,

J. I. CASE, T. M. CO.,

Racine, Wis.

—SOLD BY—

O. A. RUDOLPH,

CANTON, S. D.

Agent for Lincoln county.

N. NOBLE,

—DEALER IN—

LUMBER & COAL

We carry a complete stock of all kinds of Lumber, which we purchase in the best market. We are prepared at all times to furnish as good grades for as little money as any other dealers. Our stock of coal is also complete and prices as low as they can be made. We also carry Cord Wood, Stove Wood, Posts Lime, Cement, etc.

Office and yard east of the city scales.

NEW CLOTHING.

Christopher & Olsen.

—WE HAVE—

Opened a New Clothing store in the store room formerly occupied by W. C. Putnam.

EVERYTHING FIRST CLASS.

New Firm, New Goods, New Prices.

Having purchased our entire stock direct from the manufacturers, we will sell at the very lowest figures, for spot cash. We invite the public to call and examine our stock and get our prices. We have no snide, shoddy or shelf-worn stuff, at a fancy price. We guarantee good goods at reasonable prices, realizing that, in these days of hard times, the clothing merchant as well as other dealers, must content himself with a close margin of profit.

Remember Us Before Buying.

Christopher & Olsen.