THE GRASS, OR FALL ARMY WORM.

INFORMATION FROM CLEMSON THAT WILL BE PROFITABLE TO OUR FARMERS.

The following bulletin attempts to handle only the important points in connection with the damage of the pest, and its control. Any further information desired will be cheerfully supplied upon request to the Division of Entomology, Clemson College, S C.

It is well to impress the fact that the insect about which there is so much current excitement is not the same as the cotton leaf worm or caterpillar which was present in the cotton fields last fall. There are at present, so far as specimens sent in and investigations made by this division show, no cotton caterpillars in this State, though they are doing damage in lower Alabama and Georgia. The cotton caterpillar is injurious only to cotton; the grass worm does damage more general in character—to grass, corn, peas, cotton, etc. This latter insect is doing considerable damage over almost the entire South; so this State is not alone sustaining the effects of its ravages.

The preferred food of the fall army or grass worm is grass, such as crab grass, bermuda, water grass, etc. The pest is present every year, but unnoticed. The wealth of grass due to lack of proper culture last fall and spring has given it this year unexcelled opportunities for breeding. The almost total absence of its natural enemies also promotes the marked increase in numbers this season over previous seasons of recent years. They have reached such enormity of numbers that there has been a shortage of the preferred food and the pest has been forced to migrate to the adjoining corn and cotton fields to make its living there and to carry on its destructive damage in so doing. The worm begins its work in bottom lands, and at first appears in the grass. Here it can be most easily controlled, by deep turning of the grass and worm, or thorough spraying or dusting of these acres with arsenate of lead according to directions given below.

The third generation of worms is now entering the grass to change into moths. These deposit egss, which hatching in a very short time, will produce another generation of worms. It is well to bear this fact in mind, for the apparent cessation of injury is due to this cause.

On the first appearance of the worm the farmer should dust the infested areas with powdered arsenate of lead, undiluted, using three pounds of poison to the acre. It is best to make the application when the leaves are moist with dew, as is generally the case early in the morning. Arsenate of lead paste may be used in the form of a spray the strength of two to three pounds of arsenate to fifty gallons of water, with the addition of three pounds of unslaked lime. Paris green will also poison the worms, but it is not safe to use, since even if extreme care is exercised in the dilution and application of it, serious damage of foliage from burning often results, sometimes not becoming apparent until three or four weeks afterwards. Powdered arsenate of lead is about as cheap, sticks to the leaf better and can be used undiluted without burning the foliage. It would be no mistake, even in the case of this however, to add a small quantity of air dry, slaked lime to neutralize any free acid present in the substance, since it is this acid that does the burning.

The powdered arsenate of lead can be secured from your nearest local druggist. If he does not have it in stock, he can secure it immediately by communicating with his nearest wholesale druggist supply house or you can get it direct from the same places. It will cost you somewhere about 25 cents a pound, making the cost per acre about 75 cents.

The following directions for application are taken from Circular No. 153 Bureau of Entomology, and explain clearly and in detail the application of the poison and cautions to be taken:

The method of application by means of sacks applied to a pole carried on horseback through the fields which came into use some years ago will be found to be perfectly satisfactory. By this means a single farm hand can poison two rows at a time and cover about twenty acres during a day.

The apparatus for making the application is simple. A strip of hardwood three inches in width, one inch thick, and one foot longer than the distance between the rows should be selected. Two 1-inch holes should be bored through the stick six inches from each end. The sacks to contain the poison should be made of 8-ounce duck or similar material. Flour sacks will answer the purpose, but when powdered arsenate of lead is used, two thicknesses will be required on account of the extreme fineness of the poison. The sacks should measure 6 by 20 inches and should be left open on one of the long sides. The open margins are then tacked on to the ends of the pole, forming a bag, which is to be filled with the poison by means of a funnel inserted in the auger hole.

Care should be taken to determine whether the right amount of poison is being applied. This can be easily done by weighing the pole and sacks before and after a known area has been treated. Unless this is done there is likely to be a waste resulting from the application of too much poison, or it may be found that the amount that is being applied is insufficient to cover the cotton. The operators should be instructed to see that the poison falls evenly upon the plants If too much or too little is being applied the amount can be easily regulated properly by varying the amount of jarring of the pole. It is important that the sacks do not come into contact with the cotton leaves. If they do the poison will not pass through readily and it will be found that the amount applied is too small.

Arsenate of lead and the other arsenicals to which reference has been made are violent poisons, but there is no danger in their use on cotton if a few common-sense precautions are taken. The only cases of poisoning of domestic animals known have been where stock was allowed to break into the cotton fields soon after poisoning or where some of the poison was carelessly thrown upon the grass. The only precautions that are necessary are to keep live stock out of the fields after poisoning and to avoid throwing any of the poison on vegetation that will be devoured by live stock. It is advisable in some cases to muzzle the mules upon which the riders are mounted when the application is being made.

There is practically no danger of poisoning live stock after one or two heavy rains subsequent to the application of the poison, or, in case no rain falls, after an interval of about three weeks has elapsed.

The arsenical poisons aggravate wounds or sores on man or domestic animals. Consequently all places where the skin has been broken should be covered by some means, or at any rate washed carefully after the work has been done. In order to avoid the possibility of injury to the mules, it is advisable to throw several bucketsof water over them after the work is done.

The Trials of a Traveler.

"I am a traveling salesman," writes E E Youngs, E Berkshire, Vt, "and was often troubled with constipation and indigestion till I began to use Dr King's New Life Pills, which I have found an excellent remedy." For all stomach, liver or kidney troubles they are unequaled. Only 25 cents at M L Allen's.

Notice to Club Secretaries.

Under the rules of the Democratic party no one can vote in the primary elections unless his name is on club roll at least five days prior to said primary. Requirement to enroll on club poll list is residence in State one year and county sixty days. Registration certificates are not required in the primary. Club secretaries are hereby given notice to observe the above-mentioned rules in making up their club rolls.

PHILIP H STOLL,
8-1-2t County Chairman.

Legal Notices

Final Discharge.

Notice is hereby given that on the 9th day of September, A D 1912, at 12 o'clock noon, I will apply to P M Brockinton, Judge of Probate of Williamsburg county, for Letters Dismissory as Administrator of the estate of W J Singletary, deceased.

S L COURTNEY, Administrator.
August 5, 1912. 8-8-5t

Final Discharge.

Notice is hereby given that on the 10th day of August, A D 1912, at 12 o'clock noon, I will apply to P M Brockinton, Judge of Probate of Williamsburg county, for Letters Dismissory as Administrator of the estate of Mrs M R Hemingway, deceased.

DR T S HEMINGWAY,
7-11-5t Administrator.

Undressed Lumber.

I always have on hand a lot of undressed lumber (board and framing) at my mill near Kingstree, for sale at the lowest price for good material. See or write me for further information, etc.

F. H. HODGE.
7-18-tf

Summons for Relief

(COMPLAINT SERVED).

THE STATE OF SOUTH CAROLINA,
COUNTY OF WILLIAMSBURG,
Court of Common Pleas.

Edward Syrus, Henry Syrus, James Syrus and Eloise Williams Plaintiffs,
against
Phillis Syrus, Amos Syrus, Simon Syrus and Mary Davis, Defendants.

To the absent Defendants, Simon Syrus and Mary Davis:

You are hereby summoned and required to answer the complaint in this action, of which a copy is herewith served upon you, and to serve a copy of your answer to the said complaint on the subscribers at their office, Kingstree, S C, within twenty days after the service hereof, exclusive of the day of such service; and if you fail to answer the complaint within the time aforesaid, the plaintiffs in this action will apply to the court for the relief demanded in the complaint.

KELLEY & HINDS,
Plaintiffs' Attorneys.

Dated July 23, 1912.

TAKE NOTICE: That a copy of the complaint in the above-entitled action has this day been filed in the office of the Clerk of Court for Williamsburg county.

KELLEY & HINDS,
7-25-6t Plaintiffs' Attorneys.

Kingstree, S C, July 23, 1912.

Notice to Candidates

Notice is hereby given that, by order of the Democratic Executive Committee for Williamsburg county, all candidates for county offices must file their pledges with the county chairman or secretary by or before 12 o'clock noon on August 13, 1912, and also file their pledges with the Clerk of Court within the time above mentioned, all of which pledges may be obtained by applying to P H Stoll or A C Hinds.

The candidates for the several offices are assessed as follows:

Road Engineer	$25 00
Probate Judge	20 00
Clerk of Court	35 00
County Commissioner	25 00
County Treasurer	25 00
Superintendent of Education	25 00
Sheriff	35 00
Auditor	25 00
Representatives	15 00
Coroner	10 00

These assessments must be paid to A C Hinds, Treasurer, by or before 12 o'clock noon on August 13, 1912.

The campaign meetings are to be held at the following times and places and in the following order, to wit:

Kingstree	Wednesday,	August 14,	1912
Greelyville	Thursday,	" 15,	"
Trio	Friday,	" 16,	"
Morrisville	Tuesday,	" 20,	"
Johnsonville,	Wednesday,	" 21,	"
Hebron	Friday,	" 23,	"

The name of no candidate will appear on any ticket unless assessments be paid and pledges filed as above stated.

P H STOLL, Chairman.
A C HINDS, Secretary. 7-25-3

Registration Notice.

The office of the Supervisor of Registration will be open on the 1st Monday in each month for the purpose of registering any person who is qualified as follows:

Who shall have been a resident of the State for two years, and of the county one year, and of the polling precinct in which the elector offers to vote four months before the day of election, and shall have paid, six months before, any poll tax then due and payable, and who can both read and write any section of the constitution of 1895 submitted to him by the Supervisors of Registration, or who can show that he owns, and has paid all taxes collectable on during the present year, property in this State assessed at three hundred dollars or more.

H A MEYER,
Clerk of Board

For Sale.

My farm consisting of 197 acres on R F D 1, three and a half miles from Kingstree; 80 acres cleared, good dwelling, store house, one tobacco barn and other necessary outhouses. Splendid fruit orchard. Good pasture and timber. School 300 yards from dwelling. Good watar in house. The lands front one mile on south side and ¾ mile on north side of Murry's Ferry road leading from Kingstree to Greelyville. Also one 45 h p boiler, good 35 h p engine, saw and grist mill. The above land is well adapted to the growth of cotton, corn and tobacco. For furthur information call on or address

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or LEROY LEE,
5-30-4tp Kingstree, S C.

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J. D. GILLAND,
Attorney-at-Law
KINGSTREE, - - - S C.

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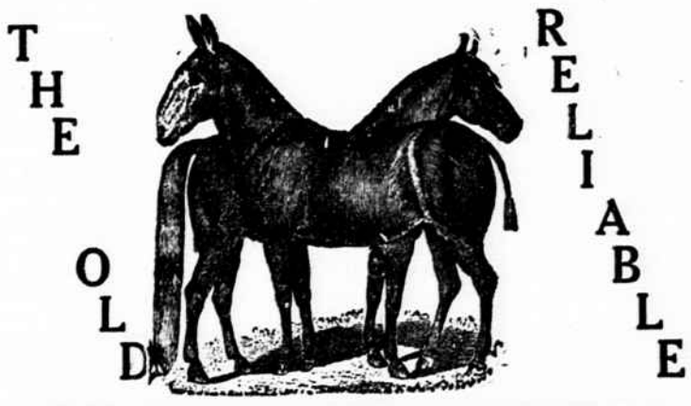

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