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DESTRUCTIVE PLUM CURCULIO ATTACKS CULTIVATED FRUITS

Insect Is Distributed Over Practically All of United States East of Rocky Mountains and Has Been Rightfully Designated as Most Injurious of All Insect Enemies of Orchardists in Every Section.



Plum Curculio. Apple Curculio. Apple Weevil.

(By FRED E. BROOKER, West Virginia University Agricultural Experiment Station.)

The plum curculio is a snout beetle about one-fifth of an inch long. Its color is a mixture of black, brown and white, with the darker shades greatly predominating. On the back are several prominent humps which give the insect a roughened appearance and make it difficult to distinguish while on the tree from the bark or from a dry bud. It is armed with a curved snout one-third as long as the body.

The insect is a native of this country and is distributed over practically all the United States east of the Rocky mountains. Before orchards were planted within its range it undoubtedly fed and bred on wild plums, crab apples and hawthorns, but with the settlement of the country it turned its attention more to cultivated fruits, although it continues to breed on the wild, native varieties. It attacks plums, peaches, nectarines, apricots, cherries, apples, crab apples, pears, quinces and hawthorns, and has even been reported as breeding on persimmons. On account of the usual abundance of the insect and the great variety of valuable fruits which it attacks, there is little doubt but that it has been rightfully designated as the most destructive of all the insect enemies of the orchardist in this section of the country.

It injures the fruit by puncturing holes through the skin with its snout both for the purpose of feeding and egg-laying. The feeding punctures may be made in apples at almost any time during the summer, but the egg punctures are made mostly while the apples are small. These wounds, and the subsequent feeding of the larvae which hatch from the eggs, cause the fruit to become dwarfed in size, lop-sided, knotty and otherwise misshapen.

The injuries done by the plum curculio are not so easily prevented as are those of some other insects, and yet there are a number of methods that can be used against them with a very satisfactory measure of success. In dealing with the insect on apples by far the most effective means of preventing loss is spraying with one of the arsenical poisons, such as paris green, or, preferably, arsenate of lead. Even where spraying is practiced, however, it is a good plan to use in connection with the operation some of the other measures suggested here, if the best possible results are to be obtained.

The apple curculio has been confused often with the plum curculio, but in reality it is quite distinct from that species in both appearance and habits. The apple curculio is more reddish-brown in color, the form is more robust and on the back are four prominent humps, the front two of which are much larger than any of the humps on the back of the plum curculio. The snout of the apple curculio is almost as long as the rest of the body, or three times the length of that of the other species. The snout is carried projecting forward, instead of hanging down like an elephant's trunk, as is the case with the plum curculio.

In attacking the fruit the apple curculio bores through the skin, in a manner similar to that of the other species, but after the puncture is completed and the egg laid, only an indistinct speck is left on the surface to mark the place of injury, whereas the plum curculio makes the conspicuous crescent-shaped mark. A glance at the insects or at their work is sufficient to enable anyone, who is at all well acquainted with the species, to distinguish between the two.

Where the apple curculio becomes troublesome care should be taken that no thickets of wild crab or hawthorn

are allowed to remain as breeding places near the orchards. Such thickets may produce thousands of the beetles and when the wild fruit becomes insufficient for the great number of beetles they may seek places to feed and oviposit in cultivated orchards.

The jarring method, as recommended for the plum curculio, is effective when used against this species. Spraying with poisons is likely to be beneficial, but it is probable that not as many of the beetles will be killed by the operation, as in the case of the plum curculio, for the reason that in feeding they consume little of the exposed surface to which the poison is applied.

POPULAR FEED FOR POULTRY

Most Common Method of Chicken World Is to Supply Wet Mash of Some Sort to Fowls Once During Day.

(By C. E. BROWN)

The most common method of feeding throughout the poultry world today is to give a wet mash of some sort to the fowls once a day; whole grain being fed in the morning and evening. Some people prefer to feed the mash warm, and some cold, and some feed it in the morning, some in the middle of the day and others give it for the evening meal. Our preference is to feed it at noon for the reason that we want to make the hens scratch in the early morning for the whole grain in the litter to keep themselves warm and when in the middle of the day it is warmer and the hens naturally want a rest, we give them the mash. The chief objection to the evening mash is that a full crop of it will not last them through the long winter nights so well as whole grain, as it is so often composed of such a bulky mixture. Care should be exercised in not over-feeding on the wet mash. The hens should not have more than they will eat up clean in ten minutes.

A good mash for the farmer is as follows:
Equal parts of finely-ground corn, oats, bran or shorts, mixed with about ten per cent of cooked meat, green cut bone of beef scraps. These foods are mixed up dry and then thoroughly mixed with about one-third their bulk of steeped clover leaves or finely cut clover which has previously been scalded by pouring hot water on it and covering it with a sack. The clover should be steeped about twelve hours before using. Another method and one of the best we have tried is to take a mixture of 200 pounds bran, 100 pounds shorts, 100 pounds ground corn, 100 pounds ground oats, 100 pounds beef scraps and ten pounds of charcoal. Slightly moisten this with water when feeding to the fowls, but never make it sloppy.

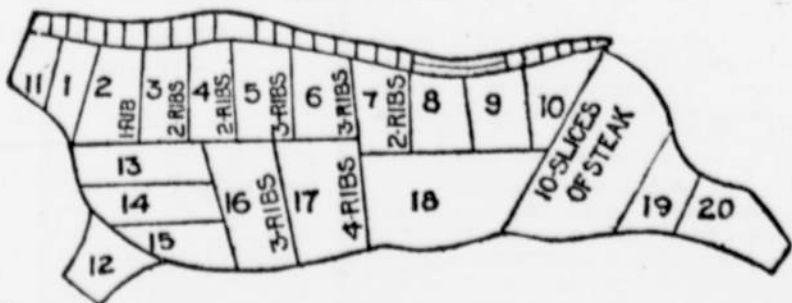
Milk-Fed Chickens.

Milk-fed chicken, which is the finest meat in the poultry line, is allowed no exercise whatever. It is kept in a close coop, where it has barely room to turn around, and is never allowed to leave it except when it goes to the guillotine.

Incubator Chicks.

It has been pretty well proven that an incubator chick, if it has been properly incubated and gets the right kind of food and treatment afterward, is just as thrifty as his forty-second cousin who was hatched and raised by a hen.

20-SHARE BEEF RING CHART



By the division of the carcass given in the table herewith each member gets a roast, a boil and a slice of steak, the numbers as indicated below going together:

Roast.	Boil	Steak.
1	14	1
2	13	2
3	12	3
4	11	4
5	10	5
6	9	6
7	8	7
8	7	8
9	6	9
10	5	10
11	4	11
12	3	12
13	2	13
14	1	14
15	10-SLICES OF STEAK	

Praise for Piano Players.

In the course of the past few years an ingenious invention has made all departments of musical composition in a certain degree accessible even to those who are not expert pianists. I refer to the mechanical piano players, which were at first looked upon with suspicion and often with abhorrence by professional musicians, but which are proving themselves an agency of immense usefulness in diffusing good music among the people.—Prof. E. Dickinson, "The Education of a Music Lover."

Well Occupied.

Lady (engaging assistant gardener)—And if I engage you, besides your other duties, you will have to attend to the three dogs and clean out their kennels, also clean out the parrot's cage, clean up my sons' workshop and clean both their bicycles; also clean the car except when the weather's dirty. Applicant (overwhelmed)—And shall I have to clean that?—Tattler.

Don't cringe—don't flinch, Should fortune pinch And all seem lost; With might and main, TRY, TRY again At any cost.

MUNYON.

I AM taking the above text for the reason that I want to instill into the people self-reliance, self-ability, self-sufficiency. I want every person to feel that they are not dependent, haughty, selfishness, jealousy, envy or revenge. I want the person who is plucked by poverty, who has suffered great reverses, who is weighed down with some great sorrow to become acquainted with the redeeming power of Hope. I want them to take Hope as a companion, as a consolation, as a medicine, for Hope is an ambassador from God. It is a teacher that shows us the beautiful. It fills our souls with songs and our tongues with praise. To be hopeful one must be well, and to be well one must be hopeful.



That the lower bowel is responsible for most bodily ill is now being recognized by the leading physicians throughout the world. There is no further excuse for being bilious, for having headaches, for suffering with dyspepsia or indigestion, for putting up with stomach or liver trouble, for poisoning the blood as a result of constipation, for Munyon's Paw Paw Laxative Pills are positive in correcting all these ailments. They assist in digesting everything that is put into the stomach. They stimulate the liver into activity. They start the secretions of the stomach, which carry off all the bile and poisonous matters through the bowels. They strengthen the lower bowel, so that it empties itself naturally, without the aid of cathartics or foreign substances. Munyon's Paw Paw Pills for sale at all druggists. Price, 25 cents. Munyon's.

Probably Holds Record.

Mr. Elias Taylor, parish clerk of Felsted, England, has retired on reaching the age of ninety, after fifty-one years of service. During his term of office he daily ascended the church tower to wind the clock. He discharged that duty 18,500 times, and climbed 100 miles of stairs.

DAISY FLY KILLER

placed anywhere, attracts and kills all the house flies, mosquitoes, and other insects. Lasts all summer. Guaranteed effective. Price 25 cents. HAROLD SHERMAN, 100 N. 4th St., Brooklyn, N. Y.

DOCTORS ADVISED OPERATION—DECIDED TO TRY GREAT KIDNEY REMEDY.

I want to tell you in a few words what your Swamp-Root did for me, believing that my testimony may do some other suffering person a great deal of good. About six years ago I was dangerously ill, consulted three doctors, all of whom said I had kidney trouble. One of the doctors analyzed my urine and reported that in order to regain my health and life, an operation would be necessary. I did not want to be operated on as I was afraid that I would not recover. Someone told me of Dr. Kilmer's Swamp-Root and said it was a reliable medicine for kidney trouble, so I decided to try it, and I went to Mr. Rose, the druggist, at 303 Central Ave., Minneapolis, and bought a bottle, took it, noticed results and continued taking it until I was entirely cured.

Having been free from any kidney trouble for over six years, I consider that I am absolutely cured and know that Swamp-Root has the credit.

I never fail to tell my friends about your remedy, as I believe it is the best of its kind. Your U & O Ointment is also very good. We are never without a jar in our house.

Yours very truly,
MRS. MARGARET E. ANDERSON,
Minneapolis, Minn.

State of Minnesota, ss.
County of Hennepin, ss.
Personally appeared before me this 23d day of Sept., 1910, Mrs. Margaret E. Anderson, of the City of Minneapolis of the State of Minnesota, who subscribed the above, and on oath says that the same is true in substance and in fact.
M. M. KERRIDGE,
Notary Public.
Commission expires March 26, 1914.

Prove What Swamp-Root Will Do for You
Send to Dr. Kilmer & Co., Binghamton, N. Y., for a sample bottle. It will convince anyone. You will also receive a booklet of valuable information, telling all about the kidneys and bladder. When writing, be sure and mention this paper. For sale at all drug stores. Price fifty-cents and one-dollar.



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When a woman speaks of her silent sufferer, suffering the fruits you. Millions have bestowed this mark of confidence on Dr. R. V. Pierce, of Buffalo, N. Y. Everywhere there are women who bear witness to the wonder-working, curing-power of Dr. Pierce's Favorite Prescription—which saves the suffering sex from pain, and successfully grapples with woman's weaknesses and stubborn ills.



IT MAKES WEAK WOMEN STRONG IT MAKES SICK WOMEN WELL.

No woman's appeal was ever misdirected or her confidence misplaced when she wrote for advice, to the World's Dispensary Medical Association, Dr. R. V. Pierce, President, Buffalo, N. Y.

Dr. Pierce's Pleasant Pellets induce mild natural bowel movement once a day.

Milk Flows Into New York.

If the residents of New York city drank all of the milk that comes into the city each inhabitant would drink an average of seven barrels a year.

To Break in New Shoes.

Always shake in Allen's Foot-Ease, a powder, it cures hot, aching, itching, swollen feet, corns, ingrowing nails and bunions. At all druggists and shoe stores. Don't accept any substitute, sample mailed FREE. Address Allen S. Conant, Le Roy, N. Y.

No Sign of Greatness.

Don't get the idea under your hat that a man is great because he happens to be in the limelight. Mothers will find Mrs. Winslow's Soothing Syrup the best remedy to use for their children during the teething period.

Daily Thought.

There is nothing so easy but that it becomes difficult when you do it with reluctance.—Terence.

Wanted—A live representative in this town.

To handle best selling irrigated lands in California. Liberal commissions. Address Hanson & Kamball, 302 Montross Bldg., San Francisco, Cal.

Reasonably Safe.

The man who is true to himself is not likely to be injured much by those who would deal falsely with him.

Constipation causes many serious diseases.

It is thoroughly cured by Doctor Pierce's Pleasant Pellets. One a laxative, three for cathartic.

Way of Weak Humanity.

I see the right and I approve it, too; condemn the wrong and yet the wrong pursue.—Samuel Garth.

THE TRUTH ABOUT BLUING.

Talk No. 8.

Avoid liquid bluing because it's at best only a weak solution of blue in an expensive package. The customer pays the cost of glass bottle and heavy freight charge by getting half cent's worth of bluing.

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Five shots all under absolute control—three to get the cripples.

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I invite you to come to my office. I will explain to you my treatment for Varicose Veins, Hernia, Nervous Debility, Blood Poison, Piles, Fistula, Bladder, Kidney, Prostatic and all Men's Ailments and give you FREE a physical examination, if necessary a microscopic and chemical analysis of secretions, to determine pathological and bacteriological conditions. Every man should take advantage of this opportunity to learn their true condition. A permanent cure is what you want. A permanent cure is what I give.

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