

THE LESSER PEACH BORER

By A. A. Girault, Engaged in De ciduous Fruit Insect Investiga tion for the Department of Agricul- ture.

Oviposition commences soon after copulation and continues throughout the life of the female. On warm sunny days it may begin as early as 8 o'clock in the morning, in the south, and continue at intervals through the day until as late as 4:30 p. m. On very windy or stormy days the female is inactive, hiding in the grass in the orchard for shelter, and on cloudy days she is less active than on clear ones. During the period of oviposition she flies very rapidly, and is hardly discernible until she alights on the trunk of a tree; she then moves slowly over the bark and feels with the end of the yellowish ovipositor for a rough place or crevice, where she usually places an egg. Ovipositing females are exceedingly difficult to follow with the eye, and in this respect they differ markedly from the comparatively sluggish and more conspicuous females of the peach borer. Further, they are apparently more careful in placing eggs, always selecting a place which will make it easier for the larva to get into the mark, though enough observations have not been made on this to justify a positive statement.

In flight both sexes resemble wasps and make a distinct buzzing sound. The males are seldom seen. The moths have never been observed to feed, except on moisture, and in confinement show no marked attention to sweetened water. Meager observations made on adults kept in confinement indicate that they probably do not live longer than a week.

Generation.

The number of generations occurring with an insect of this kind is especially difficult to determine because of the nature of its habits. In Georgia some attempts have been made by this Bureau during the past two to obtain an accurate knowledge on this point by keeping periodical records of specimens taken from a number of peach trees during the entire breeding season. So far, however, the data obtained does not warrant a definite or positive statement concerning the actual number occurring. They are, however, sufficient to indicate more or less clearly that a partial second generation during the breeding season does occur.

As previously stated, throughout the winter the larva may be found in all instars, excepting perhaps the so that recently hatched and nearly full-grown specimens are present, the former indicating late fall, the latter late summer oviposition. As soon as spring begins to open the old larva begins to pupate, emerging a month later as adults; the young larvae feed and grow rapidly, pupating in their turn, and producing a continuous supply of moths. The moths from the hibernating larva produce another mixed generation of larva which reaches full

growth and begins to pupate and emerge as moth in the late summer and early fall. In turn these early fall adults oviposit, producing a mixed generation of larva throughout the fall of the year; these pass the winter and mature the following spring. Hence two cycles of this insect are indicated during the calendar year in the latitude of Georgia. A clearer conception of the probable occurrence of these two generations may be obtained by consulting Table II.

In Georgia, in 1906, the first pupa of what may be called the winter generation was found on February 27, and by the middle of March they were common. A month later, in April, the adults of that generation were common, continuing so throughout May and part of June. By the latter part of May the pupa became scarce, showing by this date that the winter generation was practically over. From that date on we conclude that the larva then present in the trees were practically all of the next, or summer, generation. By the last week in July, pupa were again found in numbers and continued to increase well into September, when adults of the summer generation were observed ovipositing. The winter generation therefore, became established mainly in the latter part of August and during the whole of September, and the larva from eggs deposited then had ample time to obtain at least two months' steady growth before being disturbed by cold weather. The foregoing statement is based on a series of specimens collected weekly throughout the entire season of 1906, from February to September, at Wyrle, Ga., by A. R. Rosenfeld and the author, combined with records obtained by Mr. James H. Beattie, during the investigations in 1905 at Fort Valley, Ga.

Observations made in the vicinity of Odenton, Md., and Washington, D. C., shows that the pupa were present in the spring as early as the first week in April and that adults issued from these during the first week in May. The pupa continued present at late as May 8, and thereafter we have no record. Mr. Fred Johnson, of the Bureau, records seeing adults at North East, Pa., on May 29; and at Niagara, Canada June 23, 1905. Mr. Quintance found larvae nearly or quite full grown, the pupa and adult were present. Baily (1879) found the moth as early as May 25, in 1879 at Buffalo, N.Y., and made a general statement to the effect that they issue during June and July. Kellcott (1881) reports the same months for New York and Smith (1900) for New Jersey, and similar statements have been made by different authors. For northern latitudes we are unable to present to form any definite conception as to the number of generations.

(To be continued.)

RAILROAD TO GOOSE LAKE VALLEY SEEMS CERTAIN

Negotiations between the Oregon Valley Land company and the Nevada-California-Oregon Railroad company were concluded yesterday, says the Lakeview Examiner of Thursday, which insures the building of the railroad into Goose Lake valley during the present summer. For some time past George S. Oliver, chief engineer of the railroad, has been endeavoring to secure a right of way through the XL ranch along Pitt river, but not until yesterday would he bind himself to build the road in any given time. Under such conditions it was impossible for him to secure the right of way through that property, which is now owned by the O. V. L. company. However, immediately upon his arrival here Mr. Oliver sought out W. Lair Thompson, the attorney for the company, and a contract was drawn up whereby the right of way was secured in consideration of the road being built this summer into Goose Lake Lake valley.

POLICE CERTAIN NOW CHARLTON IS MURDERER

COMO, Italy, June 18.—That Porter Charlton left Como after the murder of his wife, Mary Scott Castle Charlton, boarded the steamship Verona for New York; left the steamship at Palermo City and doubled back into Italy, thence going to Turkey and Africa, was a statement today of a prominent police official here. The authorities believe that this leaves no doubt but that Charlton murdered his wife.

Bees Kill Horses.

WASHINGTON, D. C., June 18.—An unidentified negro teamster is in a serious condition today, the result of the activity of 20 hives of bees which his horses kicked over. The animals immediately were covered by thousands of the bees and were stung to death.

RENO MINISTERS ARE FORNINST THE FIGHT

RENO, Nev., June 18.—A meeting of ministers of Reno has passed resolutions protesting against holding the Jeffries-Johnson fight in Reno.

The ministers took this action at a special meeting. The resolution recites all the objections raised by ministerial bodies in other cities.

WOMEN'S WOES.

Medford Women Are Finding Relief at Last.

It does seem that women have more than a fair share of the aches and pains that afflict humanity; they must "keep up," must attend to duties in spite of constantly aching backs, or headaches, dizzy spells, bearing-down pains; they must stoop over, when to stoop means torture. They must walk and bend and work with racking pains and many aches from kidney ills. Kidneys cause more suffering than any other organ of the body. Keep the kidneys well and health is easily maintained. Read of a remedy for kidneys only that helps and cures the kidneys and is endorsed by people you know.

Mrs. Grace Skeeters, 6 West Jackson street, Medford, Or., says: "I can recommend Doan's Kidney Pills highly for pain and stiffness in the back and other symptoms of kidney trouble. This remedy relieved me when I used it and I have been well ever since."

For sale by all dealers. Price 50 cents. Foster-Milburn Co., Buffalo, N. Y., sole agents for the United States.

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(Central Point Herald.) Mr. and Mrs. A. Conro Fiero are now at home at Woodlawn Orchards, where their friends will find them happy as larks and blythe as linnets

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MAN SHOTS' BUST OF PATRIOT IN VICKSBURG

WASHINGTON, June 18.—Someone recently fired a load of birdshot into the face of the portrait bust of General Garrott, and a load of heavier shot against the front of the monument to the 17th and 31st regiments, Louisiana infantry, in the National Military Park at Vicksburg, Miss. William T. Rigby, the chairman of the park commission, offered a reward of \$50 for the conviction of the miscreant.

Rigby will have to pay the money out of his own pocket if the reward is ever claimed, for, in replying to a question from Secretary of War Dickinson, Comptroller of the Treasury Tracewell has decided that there is no authority to pay it out of the appropriation for the maintenance of the park.

NO MORE BOXING CONTESTS FOR CITY OF SAN DIEGO

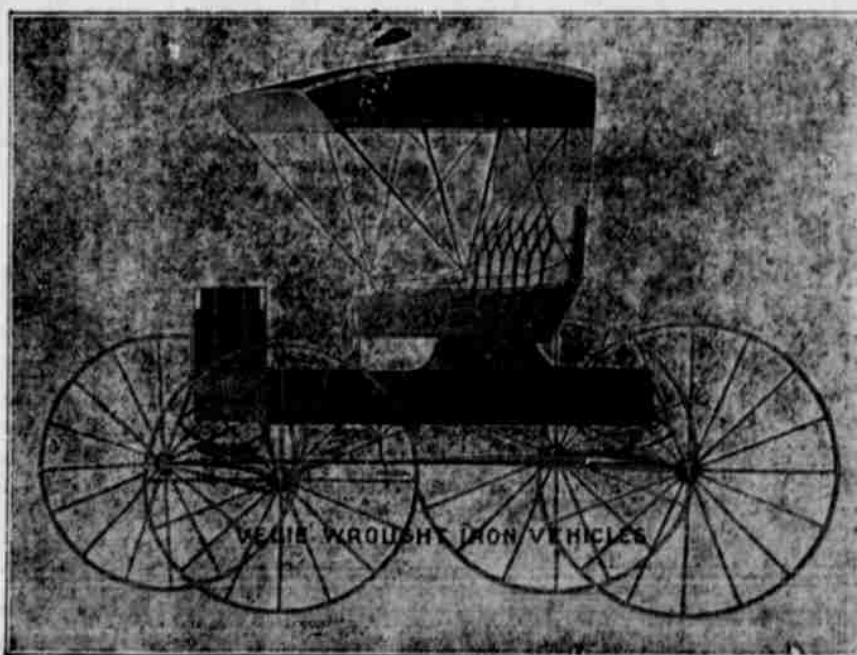
SAN DIEGO, Cal., June 18.—The city council today by a vote of four to one adopted a resolution refusing to issue any more permits for boxing contests in this city. The resolution was presented by John L. Schon, superintendent of the police department, and reads:

"I herewith inclose the application of William McMahon as manager of Dreamland pavilion for a license for a boxing match on June 17 next.

"In view of the attitude and action taken by Governor Gillett concerning the proposed contest July 4 next in San Francisco between Jas. J. Jeffries and Jack Johnson, I recommend that this petition be denied and that in the future no permits for boxing contests be granted."

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I have a few choice tracts of good orchard land for sale. Tracts from twenty (20) to one hundred and sixty (160) acres. The land is situated in the famous apple belt, near the world-famed Tronson & Guthrie orchard, near Eagle Point, Or. Some of the land is improved and some unimproved.

I also have property in the town of Eagle Point for sale. Those intending to purchase please give me a call in person or call Eagle Point central by phone.

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I wish to announce that I have purchased the

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