

WORM SITUATION IS REVIEWED

Straw Worm Field Studies Made by Entomologists From O. A. C.

(By A. L. Lovett, Entomologist, Oregon Experiment Station.)

Following a survey of the straw worm situation in Union County under date of September 15th, and at the suggestion of County Agriculturist Avery, it has seemed advisable to review the straw worm situation as presented in Union county after the unusual infestation occurring on spring wheat this season. We were so fortunate, both in our field studies in late June and again in September, as to have with us L. P. Rockwood, Chief of the Federal Cereal and Forage Crop Insect Investigational Laboratory, at Forest Grove, Me. Rockwood has likewise been consulted in the preparation of this report, which may be considered as a joint paper, presenting a summary of our findings and conclusions.

The straw worm is a maggot, the adult of which is a two-winged fly. In a study of similar economic flies attacking crops, we find that the precipitation plays a very important part in determining how serious a pest the insects may become. Limited observations on this straw worm would seem to indicate that the amount of rain fall will likewise play an important part in determining the seriousness of this pest in any district. Judging from the conditions as we found them, it is reasonable to suppose that the straw worm has been present in the fields in Union county for a number of years. In fact, it appears to be quite generally prevalent through portions of Oregon, Washington and Idaho, where we have had an opportunity to survey, where the annual rainfall is something over twenty-five inches. Undoubtedly, the conditions last season with the early fall rains, the rather open winter and the rainy conditions prevailing in the spring proved particularly favorable for the unusual increase in infestation by the maggot in spring wheat.

In reviewing the field conditions in our spring survey, as brought out in the paper by Mr. Avery, undoubtedly also the presence of volunteer grain is an important factor.

From the infested grain collected in Union county in late June and early July adult flies emerged in our breeding cages throughout July. These flies were more or less active, but showed no inclination to deposit eggs until early September. Observations in the fields in Union county in our recent visit would indicate that a similar situation holds true under field conditions; that the adults do not deposit eggs during the summer months. Concerning conditions as we found them in Union county at this time, I would say that judging from the percent of infestation appearing in fields where conditions are most favorable for the increase of the flies, it is evident that there has been a decided reduction in the infestation. Probably the lack of early fall rains, and the occurrence of early frost, are a factor in accounting for this decided lessening of the infestation, although we are not prepared to say positively that this is a fact.

Fields of fall wheat are apparently free from infestation. Native grasses and rye are so little infested as to be of minor importance. The main sources now infested, and what would represent the carry-over host is the volunteer wheat in stubble fields or where present on fallow; and the growth of wheat along the border of the stubble fields or fence row of stubble fields in the area cut early for hay. This practice of cutting a swath about the border of the fields for hay in July seems to be a fairly common practice. There is considerable growth of green wheat yet present on this cut over area, where heavy pasturing has not been practiced. It shows a fairly heavy infestation by the maggot.

Summarizing our present knowledge of the straw worm situation in Union county, therefore, we would say:

1. It would appear probable that the serious infestation of spring wheat of this year originated from an average light infestation, which developed under unusually favorable climatic conditions.

2. That spring wheat, generally, may be expected to carry a light infestation, though normally this need not prove a serious factor in cutting down the yield.

3. Any practices tending to the elimination of volunteer growth on stubble land or on fallow land, and particularly attention to the destruction of the growth of wheat developing about the borders of the fields, where an area has been cut over for hay will do much to minimize the likelihood of a repetition of this spring's serious outbreak. Attention to the destruction of wheat about the borders of the stubble fields should be given previous to or by early September.

Studies of the life history and other points regarding the activities of the straw worm will be continued and the developments of the pest watched in Union county, by both our Experiment Station and the Federal Station at Forest Grove.

Five cities are desirous of holding the 1922 grand American handtrap trap shooting tourney. Namely: Indianapolis, Des Moines, Chicago, Atlantic City and two New York city clubs.

Tenpin exponents are starting tourneys to lead to the champion ships.

OBSERVER WANT ADS GET RESULTS.

Conservatism



Conservatism is England's middle name. In some parts of London they still call the hours between 10 p. m. and 5 a. m., a custom dating back centuries.

MT. FANNIE GRANGE GROWING

COVE, Oct. 18.—(Special).—Mt. Fannie Grange held its regular meeting on Oct. 15th. A business meeting was held and two new members were initiated into the mysteries of the order. A program consisting of two readings by Master M. L. Carter, a song by the Grange and a roll call responded to by all present. Cake and coffee were served in honor of those whose birthdays happen to come in October. We will have a Hallowe'en social on Saturday evening, Oct. 29.

Mrs. Geo. Miller is visiting her daughter, Mrs. Jack Smith this week. Miss Clarice Conklin has been confined to her home this week with a bad case of tonsillitis.

Gen. Chadwick sold several cows to J. H. DeLong this week. J. B. Tallent is painting his house this week. More improvement for the Cove section. R. V. Barker finished picking apples this week. L. B. Carter finished threshing on Saturday after about a 60-day run. Mrs. Edna Conklin had a telephone installed this week. Ed. Thomas has leased the Mrs. Edna Conklin farm and will move soon. John Williams and family are moving to the Royal Allen farm and Emerson Williams and wife are moving to the Helen Boswell farm just vacated by John Williams.

Copper Coin Shortage Felt in Australia

SYDNEY, New South Wales, Oct. 17.—Australia is now in the midst of a hold upon the 60,000 East Indian apes of copper coins, which have baffled treasury officials. Children's banks were held responsible at first for the shortage and an appeal from the Treasury resulted in the exchange of many coppers for silver money. Despite this and the assistance of certain clumsy counterfeiters, copper coins are exceedingly scarce. In some quarters the approach of Christmas was blamed as, during

the annual busy shopping period large retail houses have heavy demands for change, and it was thought that some of the corporations had accumulated a surplus of coppers against these demands.

"We are coining 800 pounds worth of pennies and about 300 pounds worth of half-pennies every week," J. R. Collins, secretary of the treasury, said today. "We are at a loss to explain how there can be a shortage. The Treasury never withdraws coppers from circulation so that our output is additional to those already in use."

The Idaho board of pardons has refused to commute the sentence of Vincente Ramirez, condemned to be hanged for the killing of Frank Biscarra in Madison county in 1917.

Stops Croup

Mothers want it, for it quickly clears away the choking phlegm, stops the hoarse cough, gives restful sleep. Safe and reliable. No opiates.

FOLEY'S HONEY AND TAR

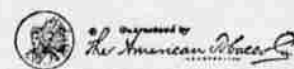
BRUNSWICK RECORDS

October Release NOW ON SALE Song, Orchestra, Band, Dance and Novelty Numbers Come in and hear them Eastern Oregon Music Co.



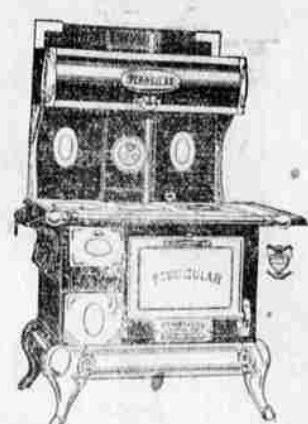
It's toasted

Notice this delicious flavor when you smoke Lucky Strike—it's sealed in by the toasting process



Stoves AND Ranges

At Prices That Will Surprise You



COME IN AND LOOK THEM OVER

Oregon Hardware & Implement Co.

FAT—SLIM—FRAIL—ROBUST—Man, Woman, Child—FAT—SLIM—FRAIL

The Woman of Today FRAIL OR VIGOROUS

Every mother and daughter needs exercise. You should take these fascinating, invigorating exercises twice a week.

Every woman and girl in this country should be healthy. Vigorous, vital women are needed everywhere. Weaklings are handicapped. Frailty is a detriment. Let each individual woman, therefore, make haste to begin the training process requisite to the building of a vigorous, efficient human machine.

Sooner or later we all come to the point where we feel the effects of our years upon us—when we realize that our youth is a thing of the past and that successive years mean for us the slowing up of our activities, the stiffening of our bodies, the ebbing of our mental and physical vigor.

Growing old depends entirely upon one's mental characteristics and physical habits.

You can keep the spirit of youth with the energy, the enthusiasm, the vivid imagination if you know how. If you have grown old before your time, you should be interested in knowing these statements are true.

This is the third of a series of advertisements which carries a vital message to every man, woman and child in Union county. Tomorrow the complete story will be told. WATCH TOMORROW'S PAPER.

FAT—SLIM—FRAIL—ROBUST—Man, Woman, Child—FAT—SLIM—FRAIL

Get on Your Marks GET SET---GET SET

Tomorrow Night the DAYS OF '49

Show will throw open its doors at the Rex Hall for four nights of fun and frolic.

Loosen your purse strings, unlimber your dancing feet and get into the procession. All proceeds from the show you are asked to patronize will go to the public Christmas Tree and Christmas Present Funds.

Handsome prizes awarded for the person with the most bones when the Show is over Saturday night.

The distinctive Show with the atmosphere of the days of '49.

Auspices Elks Lodge, direction "49" committee.

INFLUENZA VICKS VAPORUB

Harvard has 500 athletes shaping for its winter sports program.

FUNERAL DIRECTORS W.H. BOHNENKAMP CO.

PRIVATE AMBULANCE LICENSED EMBALMERS PHONES BLACK 242 MAIN 33

OBSERVER ADVERTISING will bring results

It took YEARS and YEARS to develop CAMEL QUALITY

We worked on Camels for years before we put them on the market. Years of testing—blending—experimenting with the world's choicest tobaccos.

And now, EVERY DAY, all our skill, manufacturing experience and lifelong knowledge of fine tobaccos are concentrated on making Camel the best cigarette that can be produced.

There's nothing else like Camel QUALITY. And there's nothing else like Camels wonderful smoothness, fine tobacco flavor and FREEDOM FROM CIGARETTE AFTERTASTE.

That's why Camel popularity is growing faster than ever.

A better cigarette cannot be made.

We put the utmost quality into THIS ONE BRAND.



Camel

E. J. REYNOLDS TOBACCO CO., Winston-Salem, N. C.