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BULLETIN 01500

A periodical review of entomological conditions throughout the United States, issued on the first of each month from March to November, inclusive.

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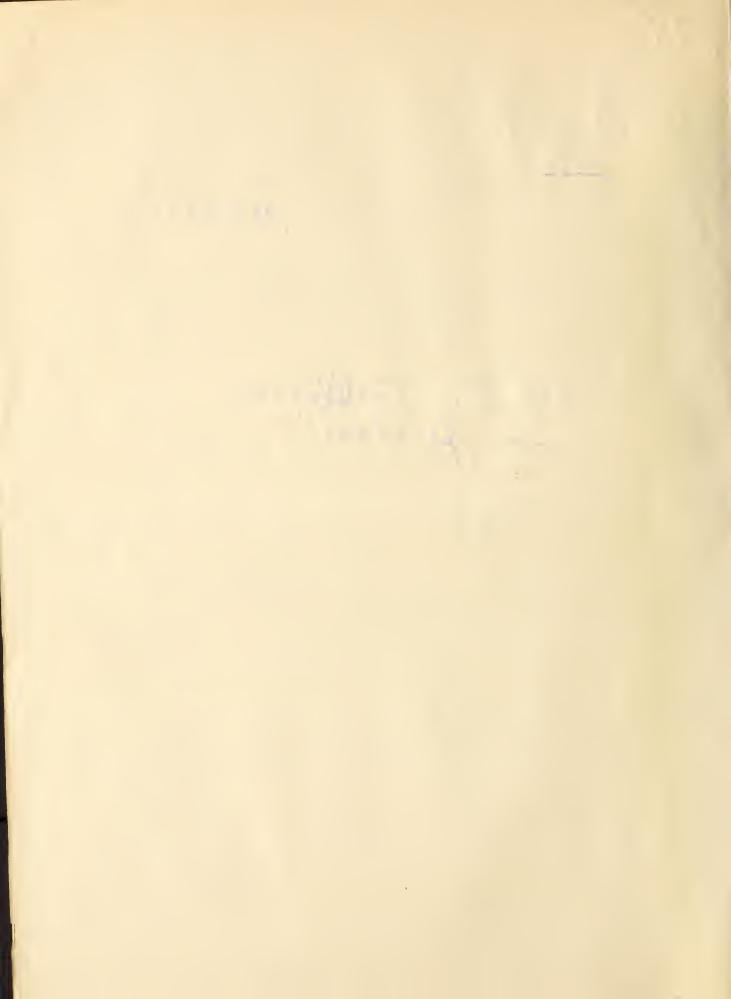
BUREAU OF ENTOMOLOGY

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DEPARTMENT OF AGRICULTURE

AND

THE STATE ENTOMOLOGICAL
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No. 4

OUTSTANDING ENTOMOLOGICAL FEATURES IN THE UNITED STATES FOR MAY, 1926

During the coming month careful observations should be made by all Survey Collaborators working in the regions where Brood XVII of the periodical cicada is due to appear this year. This is one of the problematical broods with but few well developed colonies ever reported. It has been reported from Virginia, Georgia, Iowa, and Missouri in past years.

Brood "A" of white grub adults is due to occur in the east-central States. Rather heavy flights have already been recorded from southern Illinois and parts of Indiana. Reports of unusual abundance of the beetles have also been received from Iowa, Missouri, Kansas, and Mississippi.

Cutworms still continue to be important factors in the insect damage of this spring, a very unusual outbrook of the variegated cutworm having been reported from Mississippi and Texas.

Indications point to a rather serious Hessian fly infestation of wheat in Kansas

Chinch bugs seem to be unusually abundant in central and south-central Illinois, and in parts of Kansas. The outbreak in Mississippi reported last year does not seem to be abating. Reports of unusual abundance have already been received from Tate and Marshall Counties in the State.

Telegraphic communication dated June 4 informs us that the fall armyworm is appearing in enormous numbers and defoliating corn, cane, sorghum, alfalfa, etc., in southern Louisiana.

Aphids attacking deciduous fruits still continue to be unusually scarce in the New England and Middle Atlantic States, extending westward to Missouri. South of North Carolina aphids seem to be normally abundant.

The tent caterpillar is being reported as unusually abundant from the Connecticut River Valley restward into New York State, and southward to Virginia.

The corn ear worm has practically destroyed the peach crop on a 4,000-tree plantation in Georgia owing to a failure to turn under a hairy vetch crop early in the season.

One of the most serious insect outbreaks on pecan that has come to the attention of the State Entomologist of Mississippi is the outbreak of the cambium curculio, <u>Cenotrachelus anaglypticus</u> Say, reported from the Pearl River section of that State.

The citrus aphid situation in Florida is apported as very favorable, very slight infestations having been observed. Rather serious infestations by this post, however, are reported from parts of Louisiana.

Boll weevil emergence continues to be slow at proclically all the cooperating stations up to May 15.

OUTSTANDING ENTOROLOGICAL FEATURES IN CAPADA, FOR MAY, 1926

Grasshoppers were hatching in all sections of southern British Columbia at the end of April and, by the middle of May, mere noticed abundantly in many parts of the province. Poisoned bait mixing stations are in operation from the Peace river district to the international boundary.

The cricket, <u>Anabrus longioes</u> Caudell, is causing important damage at Vernon, British Columbia.

The mostern army cutmorm has appeared in outbreak form over a large section of southern alberta. Deprodations by this species and the early cutmorm, <u>Euxoa</u> tristicula Morr., have been reported from many parts of Saskatchevan. Cutmorms are proving very troublesome in the Vernon district. British Columbia.

A serious outbreak of the red-backed cutvorm, Fuxca ochrogaster Gn., is believed to be developing in some sections of southern Manitoba.

The bronzed apple tree weevil, <u>Maddelis aennscens</u> Lec., which broads in dead and dying trees is causing foliage injury in orthards, in some sections of the Okanagan valley, British Columbia.

The oblique-banded leaf-roller is an insect of major importance in the orchards of the Okanagan V-liey, B. C., this season. The tarnished plant bug has caused marked injury to apple buds in sections of the valley.

The stramberry root medvil, is more numerous in the Victoria district, British Columbia, than for many years, and mill probably cause considerable damage.

The samply, allantus melianes Forton has been found in greenhouses at Moncton, New Brunswick, on roses recently imported from the United States.

Few reports of insect activity have beer received from Eastern Canada where the spring weather has been cold and backward.

. GENERAL FEEDERS

WHITE GRUBS (Phyllophaga spp.)

- Masssachusetts A. I. Bourne (May 21): The first May beetles were collected the night of May 16 and 17, although to date very few of the beetles have been found.
- Indiana
- H. F. Dietz (May 18): May beetles have been very abundant at lights at night since May 5.
- J. J. Davis (May 25): Have been abundant the past month. An unusual abundance was reported from Argos on May 17. Reports continue to be received calling attention to the abundance of white grubs in northern Indiana last season.
- Illinois
- W. P. Flint (May 18): The present season is one in which the major flight of adults of brood A would be expected. Rather heavy flights of May beetles have been noted in southern Illinois by S. C. Chandler, and in western Illinois by J. H. Bigger. In the eastern and northern parts of the State moderately heavy flights of May beetles occurred.
- Iowa ...
- C. N. Ainslie (May 18): The emergence of adults at Sioux City has been retarded by cool, dry weather but they are now appearing in large numbers at lights, Lachnosterna implicita Horn and Lachnosterna rugosa Melsh, are common
- Missouri
- L. Haseman (May 20): Since about May 10, two species of June Beetles (?) have been on wing in great numbers collecting about shade trees and coming to lights.
- A. C. Burrill (May 22): Field corn is not up but local gardens suffer from above pests in many places in Jefferson City. I suppose that late season and weak corn, only a few inches high, has intensified the gardeners' troubles.
- Kansas
- J. W. McColloch (April 5): White grubs have caused serious damage to nursery stock grown at Bartlett. (May 7): Adults of this species were received from Salina with the information that they were defoliating elms.
- Mississippi
- R. W. Harned (May 13): Although May beetles are apparently not so abundant this year as during several previous years, complaints have been received in regard to their damage to pecan trees. From Scooba, Miss., on May 10, a correspondent wrote that most of the leaves and twigs from his young pecan trees had been eaten by May beetles. He reported them so numerous that they sounded like swarms of honeybees on his trees at night. The specimens that he sent proved to be Phyllophaga hirticula and Phyllophaga praetermissa. Phyllophaga micans is the species that has been collected most abundantly this spring, especially from the southern part of the State. Up to May 8, 5,848 May

beetles have been received, and identified by J. M. Langston as follows:

Phyllophaga micans Knoch	3121	Phyllophaga vehemens Horn	39
Phyllophaga praetermissa Horn	1070	P. fraterna Burm. var. missis	sippier
Phyllophaga arkansana Schffr.	436	sis Davis	35
Phyllophaga calceata Lec.	216	Phyllophaga perlonga Davis	34
Phyllophaga hirticula Knoch	214	Phyllophaga forsteri Burm.	34
P. micans var. cupuliformis Lange	stan 198	Phyllophaga knochi Gylll	27
Phyllophaga crenulata Froel.	84	Phyllophaga profunda Blanch.	17
Phyllophaga prunina Lec.	72	Phyllophaga fervida Fab.	12
Phyllophaga ulkei Sm.	65.	Phyllophaga fraterna Burm.	7
Phyllophaga tristis Fab.	50	Phyllophaga ilicis Knoch	2
Phyllophaga bipartita Horn	48.	Phyllophaga diffinis Blanch.	2
Phyllophaga luctuosa Horn	61	Phyllopnaga delata Horn	

Fhyllophaga anxia Lec..... 1 Phyllophaga forbesi Glasgov .1

W. L. Gray, Inspector for the State Plant Board at Natchez, Miss., reports that many pecan trees on properties in Adams and Wilkinson counties in the southwestern corner of Mississippi have been practically defoliated by May beetles. No beetles were collected, so we can not be certain what species has caused this damage.

On May 19, Inspector J. P. Kislanko, Ocean Springs, Miss., wrote: "It might be of interest to you to know the damage that May beetles have caused in some sections of this territory. Yesterday we visited A. W. King, 7 miles north of Ocean Springs, to inspect his nursery. I was very much astounded. Every pecan tree on his place was completely defoliated by May beetles, apparently by Phyllophaga micans, and Phyllophaga micans var. cupuliformis. The orchard appears as though it was dormant. The pecan nursery stock was also ruined. New leaves are being formed since the beetles have commenced to disappear. Mr. King states: 'There is one now to every 10 a week ago. He also states that each night he had a fire built in his yard and the beetles would come in multiple millions. I should have mentioned that the pecan trees in Ocean Springs suffered no noticeable injury from May beetles, but he miles north of Ocean Springs the work of the beetles is serious and becomes more so farther north. I do not know how far north this severe damage extends. Damage to pecan trees by May beetles has also been reported from other sections of the State, especially from one property at Jackson in Hinds County."

CUTWORKS (Noctuidae)

- Indiana J. J. Davis (May 25): Cutyorms damaged a six acre field of onions at Angola on May 12, and pansies at Richmond on May 18. Reported as abundant in sod fields being planted to corn from several sections of central and northern Indiana. (May 26): Reported today damaging corn at Delphi.
- Iowa C. N. Ainslie (May 18): There is much complaint of demare by cutworms; all sorts of garden plants, potatoes, and stramberries are being injured. These larvae are still small and immature.

New Mexico

J. R. Douglass (May 21): Complaints have been received from farmers throughout the Estancia Valley concerning the great number of cutworms present. No commercially important damage has been noted, as corn is just coming up and beans are being planted at the present time. Eighty thousand acres of cultivated land lay idlectast season on account of the drought.

BLACK CUTWORM (Agrotis ypsilon Rott.)

Mississippi

R. W. Harned (May 13): Cutworms found damaging sweet peppers at Pascagoula, Miss., by R. P. Colmer on May 3, have been identified by S. E. Crumb of the Bureau of Entomology as the greasy cutworm, (Agrotis ypsilon).

ARMY CUTWORM (Chorizagrotis auxiliaris Grote)

Kansas

J. W. McColloch (May 20): During the past month injury to wheat has been reported from Smith, Rice, and Ellis Counties; to alfalfa in Wabaunsce, Seline, and Dickinson Counties; and to gardens in Dickinson and Rooks Counties.

Ncbraska

M. H. Swenk (April 25-May 25): The army cutworm has been reported from Perkins, Sheridan and Knox Counties. In Sheridan County these cutworms infested alfalfa to such an extent that some fields were plowed up and planted to other crops. In Lincoln, during the warm hights of May 23 and 24, there were literally thousands of the adults of Chorizagrotis auxiliaris flying during the evenings. They were especially noticeable on flowers of peony and Iris, and caused much annoyance by getting in between the windows and screens of houses.

YELLOW-STRIPED ARMYWORM (Prodenia ornithogalli Guen.)?

California

E. A. McGregor (May 18): During the first two weeks of May there has been a very conspicuous occurrence of the yellow-striped armyworm, Prodenia practica Grote. At first the caterpillars confined their attacks to certain common native weeds, and at the height of occurrence in the open fields there was nearly one larva per square foot of ground. As native plants dried up following the end of the rainy season, the armyworms began to migrate. It was of much interest to note that the great bulk of the individuals pursued a common direction, namely, from the southeast to the northwest. This seems remarkable for an immature stage.

One young orange grove which lay to the northwest of a large pasture soon became rather badly defoliated by the work of the migrating worms. The owner combatted the pest by placing arsenic-treated oranges at the base of each young tree. After 24 hours there was an average of about 30 dead armyworms near the foot of each tree. The treatment seemed to give protection until the worst of the migration was over.

The migration extended over a rather large extent of the country.

VARIEGATED CUTWCRM (Lycophotia margaritosa saucia Hb.)

Mississippi

R. W. Harned (May 27): This species is doing serious damage in the Delta or western section of Mississippi. On May 20, T. Y. Williford, County Agent, Cleveland, Bolivar County, Miss., mailed to us several dozen specimens of the Variegated cutworm. At the same time he wrote: "Big collection of worms taken from alfalfa field where they had denuded stems of all leaves, moved across into gardens and cotton fields, ate up Irish potatoes, cabbage, tomatoes, onion plants, cotton, and everything in their way. Do their work mostly at night, hiding in the day in cracks of ground or under piles of alfalfa or in shady places. Dug up some of them from 4 inches under ground, showing change to lighter color or losing some of dark color. The red looking pupae were found at same place about same distance under soil. We thought possibly they were pupae of the worms. The worms have not bothered sweet clover."

On May 19 Inspector D. W. Grimes, Leland, Miss., sent in a supply of these cutworms stating that they were causing severe damage in places. The specimens that he sent were collected in alfalfa field. Fornpositive determination a number of the insects from Mr. Williford were sent to S. E. Crumb of the U. S. Bureau of Entomology, who identified them as this species.

On May 26 a correspondent at Clarksdale in Coahoma County sent a supply of the variegated cutworms to us with a report that they are feeding on alfalfa and upon leaving the alfalfa field are eating cotton clean as they go. This makes three counties from which these insects have been reported as serious during the past week. These counties, Washington, Bolivar, and Coahoma, are in a row along the Mississippi River in the western part of the State. They are in the center of the Delta, the richest section of the State.

Texas

F. L. Thomas (May 12): Originating in alfalfa and spreading into young cotton near Ennis in Ellis County, absolutely cleaning 7 acres of ootton, and causing much damage to the alfalfa.

WIREWORMS (Elateridae)

Indiana

J. J. Davis (May 25): Reported abundant in sod and other fields but no damage yet this season excepting in one instance at Brookville, May 15, where they were heavily infesting sprouting potatoes. An 8-acre field of onions reported as practically destroyed by wireworms in Steuben County.

Missouri

- L. Haseman (May 21): Farmers are reporting stands of corn on 50 and 75 acre plantings destroyed. The pest is proving a real problem on many farms, and is widely distributed in this State.
- A. C. Burrill (May 22): Field corn is not up but local gardens suffer from this pest in many places in Jefferson City. I suppose

that late season and weak corn, only a few inches high, have intensified the gardeners' troubles.

Knnsas

J. W. McColloch (May 14): Germinating seed corn has been seriously injured by wireworms at Fort Scott, Abilene, White City, and Ogden. In many fields it has been necessary to replant.

CEREAL AND FORAGE - CROP INSECTS

WHEAT

HESSIAN FLY (Phytophaga destructor Say)

Indiana J. J. Davis (May 25): Hessian flies were out laying eggs on May 3 at La Fayette.

Missouri L. Haseman (May 21): In central Missouri it is practically impossible to find this insect.

Kansas Crop Report of the State Board of Agriculture (April 10):
Attention is called to the fact that the autumn infestation of
the Hessian fly was much greater after seeding last fall than it
was in the fall preceding the 1924 harvest. The potential menace
from this source is therefore greater now than it was two years
ago. In some south-central counties field examination on acreages
containing much volunteer or in early seeded fields shows as
many as 10 or 12 flies in the flaxseed stage this spring. Weather
conditions during the egg-laying time and during the hatch of the
first brood will have much to do with the amount of this year's
fly damage.

CHINCH BUG (Blissus leucopterus Say)

Illinois W. P. Flint (May 18): Examinations in small grain indicates that chinch bugs will cause damage in local areas in some 50 counties in the central and south-central parts of Illinois. Egg laying is just starting, but no young bugs have been observed in the field to date. The weather thus far has been rather dry and favorable to the development of the chinch bugs.

Missouri L. Haseman (May 21): No reports of chinch bugs in wheat have been received to date.

Kansas J. W. McColloch (April 13): I also have the report of the county agent of Washington County relative to the chinch-bug situation, in which he states that all bunch grass which was not burned over last fall contains a large number of chinch bugs, and there is danger of considerable injury this year.

Mississippi R. W. Harned (May 12): On May 12 chinch bugs were collected on corn at Coldwater, Tate County, by Inspector T. F. McGehee, These insects are reported as becoming very abundant on corn in portions of Tate, DeSoto, and Marshall Counties.

Complaints in regard to chinch bugs were not unexpected because

the summers of 1924 and 1925 have been exceptionally dry throughout the northern part of Mississippi. Many complaints in resard to chinch bugs were received during the summer of 1924 and a still larger number were received during 1925. (May 22): A complaint has been received in regard to chinch bugs damaging corn in Sunflower County, Miss., recently. A previous report in regard to these insects damaging corn and sugarcone in the northern part of the State was submitted several days ago.

CCRN

SEED-CORN BEETLE (Agonoderus pallipes Fab.)

Missouri

A. C. Burrill (May 22): At Jefferson City heavy emergence of adults at street and house lights the first half of May was reported. Always very abundant in the Missouri and Mississippi Valleys within this State.

CORN ROOT WEBWORM (Grambus caliginosellus Clem.)

West Virginia W. E. Rumsey (May 24): We have a report from Heater, Braxton County, that the corn root webworm is quite a serious pest in that locality.

GAPDEN WEBWORM (Lowostege similalis Guen.)

Texas

F. L. Thomas (Nay 17): On corn at Fort Bend County on May 14.

CORN EAR WORM (Heliothis obsoleta Fab.)

Alabama & Georgia

Oliver I. Snapp (May 20): A number of reports have been received from Georgia and Alabama in reference to much damage to worth this year from the corn ear worm.

ARMYWORM (Cirphis univuncta Ham.)

South Carolina J. O. Pepper (May 12): Specimens of the true armyworm have been received from Beaufort County and reported as feeding on small grains.

Indiana

H. F. Dietz (Pay 18): Armyworm meths were first taken at lights at Indianapolis on Pay 2.

J. J. Davis (May 25): Armyworm moths have been unusually abundant. They were reported common at lights and at peach blossoms the latter part of April in southern Indiana. Reports of their abundance on apricot flowers on May 2 at Greentown in central Indiana were also received and they were observed common at lights at La Fayette about the same time. No report of armyworms yet received.

LEATHER-JACKET LARVAE (Tipulilae)

Indiana

J. J. Davis (May 25): Reported abundant and injuring corn at Eushville, May 19.

ALFALFA

ALFALFA WERWII (Phytonomus posticus Gyll.)

Wyoming

C. L. Corkins (May 8): Weevils are abundant only in a few fields. Egg laying has started, One small larva was taken. At Careyhurst the average number of eggs per 100 fresh stems on May 5 was 18.3; the number of adult weevils per 100 strokes of the net was 3.7.

AM ANOMALA (Anomala binotata Cyll.)

Kansas

J. W. McColloch (May 7): Adults were received from Holton with the information that they were very abundant in alfalfa.

PEA APHID (Illinoia pisi Kalt.)

Kansas

J. W. McColloch (May 20): There has been a rather general outbreak of the rea aphid in the alfalfa fields of the State. The cold backward spring has been favorable for the development of the aphils. The outbreak has been of interest because of its spread westward in the State. The heaviest loss was probably in the southwestern part of the State.

FALL ARMIWORM (Laphygma frugiperda S. & A.)

Florida

J. R. Watson (May 15): A good many reports are reaching the office concerning the depredations of the fall armyworm, mostly on grass.

CLCVER LEAF WHEVIL (Hypera punctata Fab.)

Illinois

W. F. Flint (M.y 18): The clover leaf weevil, which earlier in the season threatened to be quite destructive in the western sections of Illinois, has caused very little damage, the insects having been largely destroyed by the fungus disease which frequently attacks the larvae.

Kansas

J. W. McColloch (May 20): Larvae and cocoons of the clover leaf weevil have been received from a number of localities in the State, southeastern quarter, during the past month, In ho case has serious injury been reported.

Indiana

J. J. Davis (May 25): The clover leaf weevil is not so generally abundant as usual. Reports of injury to little red clover and to sweet clover were received from the southern sections of the State. (May 26): Two reports of heavy infestations for north-central Indiana were received today.

Tebraska

Don B. Whelan (May 25): Larvae of the clover leaf weevil were brought in from an alfalfa field in Lancaster County on April 27 where they were causing injury.

FRUIT INSECTS

APPLE

APHILIDAE

Massachusetts

A. I. Bourne (May 21): There is a very marked scarcity in the number of apple aphids which are to be found in the orchards throughout the State.

New York

E. P. Felt (May 26): Apple-tree aphids are remarkable for their scarcity, in the vicinity of Albany:

Indiana

H. F. Dietz (May 18): Plant lice of all species occurring on apple have been noticeable by their absence. Inspections have been made around Indianarolis, Martinsville, Bluffton, and Fair Oaks at various times from the middle of April to the present.

J. J. Davis (May 25): Apple aphids are very scarce throughout the State

Jissouri

L. Haseman (May 21): Up to the present date no plant lice injury has shown up on apple trees in central Missouri. No winter eggs appeared last fall and winter and no lice have as yet reached the apples. -

ROSY APPLE APHID (Anuraphis roseus Baker)

Pennsylvania

G. F. MacLeod (April 21): This aphid occurs generally in younger plantings and is abundant enough in Berks County to make control practices necessary.

H. E. Hodgkise (April 30): This species is not present in large numbers over the entire area but occurs especially in old orchards. In the majority of these it has been necessary to make a special point to effect control although in a few of them the infestation is comparatively small. Reported from Snyder, Juniata, Union, Worthumberland, and Dauphin Counties.

South Carolina J.O. Fepper (May 10): This insect recently appeared in large numbers and has caused the leaves of apple to curl. However, the natural enemies are holding it under control at present.

WOOLLY APPLE APHID (Eriosome lanigerum Hausm.)

South Carolina

J.O. Pepper (May 15): The woolly apple aphid is abundant in the college or chard this year.

Ohio

E. W. Mondenhall (May 5): I find the appearance of woolly apple

arhids on the English and American elms in the parks in Dayton, Ohio, They seem to be crawling on the bodies of the trees.

BROWN SOFT SCALE (Lecanium convli L.)

Washington

Arthur Frank (May 1): Infestation by Lecenium coryli is present in Whatcom County and also King County and about the City of Seattle. This insect has escaped from British Columbia into this country, as they had a very severe outbreak in 1924-25. At present the infestations occur upon apples, pears, prunes, cherries, gooseberries, currants, raspberries and plums. The pest has escaped into the native vegetation at several places and I have reports of its presence upon the native timber.

CODLING MOTH (Carpocanaa pononella L.)

Massachusetts A. I. Pourne (May 21): The codling moth was reported to have begun pupation early in May, Mr. Whitcomb in Middlesex County observed the first pupation on May 2, Here at Amherst the first pupation was noted four or five days later.

Indiana

J. J. Davis (May 25): The codling moth situation is unchanged. Where proper spray methods tre practised no trouble is evident. Examination in an orchard at Mitchell showed that about a third or fourth of the overwintering larvae had pupated. Emergence records indicate that the regular spraying schedule for the first brood of codling moth worms is applicable this year.

Illinois

W.P.Flint (May 18): Emergence of codling moth adults was first observed in southern Illinois on May 8, and adults are now appearing in both central and southern sections of the State. Appearently the young worms will start entering the apples about two weeks later this season than was the case in 1925.

Missouri

L. Haseman (May 21): The pest was slow emerging as the moth. though in central Missouri moths have been emerging since May 13 in breeding cages. Moths were on wing in the orchard on May 20,

EYE-SFORTED BUDMOTH (Spilonopa ocellana Shiff.)

Massachusetts A. I? Bourne (May 21): Apple bud moths are about normal in regard to their abundance as compared with the past fer seasons.

EASTERN TENT CATERPILLAR (Malacosoma americana Fab.)

Massachusetts A. I. Bourne (May 21): The apple tent caterpillars, which were hatching out just about the time of my last report, have fully justified cur early predictions as to their relative abundance, Reports which have come in from the eastern part of the State invariably found this insect to be considerably less abundant than for several years past. Here in the western half of the State, however, the pest is rather on the increase.

New York

E. P. Felt (May 26): There is a very general abundance of the apple tent caterpillar, especially in the eastern part of the State, a very considerable proportion of the wild cherry trees being defoliated and some unsprayed orchards rather severely injured.

Washington & Baltimore

T. E. Snyder (May 8): The tent caterpillar tents (Malacosoma sp.) on wild cherry trees between Washington, D. C., and Baltimore, Md., on May 7 were very numerous, often 6 tents on one tree, tents not large as yet in woodland.

Indiana

J. J. Davis (May 25): A recently hatched apple tent caterpillar infestation in an apple orchard was reported from Walkerton on May 8.

New Mexico

J. R. Douglass (May 21): The tent caterpillar, Malacosoma americana Fab., first egg masses hatched on May 18 in the foothill region west of the Estancia Valley.

SPRING CANKERWORM (Paleacrita vernata Peck)

Missouri

L. Haseman (May 21): Only a light infestation is showing up in the central part of this State and we are not receiving complaints from other parts of the State. The worms are just half grown.

FALL CANKERWORM (Alsophila pometaria Harr.)

Connecticut

M. P. Zappe (May 18): A few young larvas have been seen but are very scarce as compared with last your throughout the State.

FALSE APPLE RED BUG (Lygidea mendax Reut.)

New York

E. P. Felt (May 26): Red bugs are somewhat numerous locally, though to date are only moderately abundant in the vicinity of Albany.

Massachusetts

A. I. Zourne (My 21): The apple red bugs as yet have failed to make their appearance at all conspicuous. Over the State as a whole these appear to be much scarcer than normal.

APPLE LEAFHOFPER (Empoasca mali LeB.)

Massachusetts

A. I. Bourne (May 21): The apple leafhoppers are rather conspicuous as yet by their absence. All these species are practically absent from our orchards; at least they have not made their appearance up to this time. In fact, there is such a scarcity of aphids and leafhoppers that many grovers did not include nicotine in their pink spray, nor do they contemplate the use of it in the calyx.

ROSE LEAFHOPPER (Empor rosae L.)

Maryland

H. S. McConnoll (May 22): There has been slight damage to leaves in some or chards in the mostern portion of the State. The infestation

is sufficient to cause serious injury by the second generation unless proper control measures are taken against the firstandrewion nymphe.

OUSTER-SHELL SCALE (Lenidos or has ulmi L.)

Ohio

E. W. Menierhall (May 4): The oyster-shell scale infests a variety of trees and I find it cuite bad on some of the honeylocast in Springfield, this year. The poplar are very badly infanted in Ohio

Indiana

- H. F. Dietz (May 18): The oyster-shell scale, light brown form of Glenn, began hatching at Indianapolis on May 15.
- J. J. Davis (May 25): The oyster-shell scale appears to be as numerous as a year ago. No hatching has occurred at La Fayette up to date.

SCURFY SCALE (Chionaspis furfura Fitch)

Indiana

J. J. Davis (May 25): The sourfy scale appears to be as numerous as a year ago. No hatching has occurred at In Fayatte up to date,

EUROPEAN RED MITE (Paratetranychus pilosus C. & F.)

Massachusetts A. I. Bourne (May 21): The European red mite was observed to be hatching on May 6 and 7, here at Anherst. Mr. Whitcomb, who is located in the eastern part of the State, reports finding them hatching some days earlier than this, and that by May 7 close to 50 per cent of the eggs had hatched, indicating that in the particular region of Middlegex County the overwintering eggs hatched three or four days earlier than this date. On the whole it appears that there is a slight increase in the abundance of this pest this present season as judged by reports which we have received thus far.

Connecticut

M. P. Happe (May 13): Mites are very plentiful in New Haven and Fairfield Counties on unsprayed trees and also on some sprayed trees that had not been very thoroughly sprayed with miscible oil at the delayed dormant period.

New York

C. R. Crosby and assistants: Infestations in Ulster County, while general, do not appear to be severe,

PEAR

PEAR THRIFS (Taeniothrips inconsequens Uzel)

New York

C. R. Crosby and assistants: In Orange County, on April 17, only a few specimens were found, whereas in Columbia County, on April 23, thrips appeared in numbers on pears, in fact on all species of fruit trees. In Ulster County a few individuals were found on April 20. Their numbers increased slightly on April 21. The buds were sufficiently open to allow the insects

to enter easily. This fact made it difficult to time a spray for their control. In Greene County, on April 23, a few individuals were found on the pear buds in all parts of the county. In Dutchess County, on April 23, these insects were observed in small numbers. In Orange County they emerged in some numbers on April 21 and 22. As high as 30 individuals per bud were observed. It appears that no effective spray can be applied to control the adults this season.

PEAR PSYLIA (Psylla pyri L.)

Massachusetts A. I. Bourne (May 21): The pear psylla has been found to be about as abundant as for the last few years, but we are finding that oviposition seems to be extending over a lower period and That both the adults and newly laid eggs can be found much later in the adason than is normally the case. This somewhat complicates control measures since the lime-sulphur treatment applied at the time of the "pink" on the pears has not given as good control as normally is the case, owing to the fact that so many of the psyllas have continued laying after the time at which this spray could be applied safely.

New York

C. R. Crosby and assistants: The pear psylla is commonly found in orchards in Dutchess Scunty at this time but oviposition did not start until April 13. In Ulster County small numbers of eggs have been laid in most orchards and large numbers have been found near the Hadson River on April 18. In Crange County on April 17 oviposition was heavy.

PEACH

PEACH BORER (Aegoria exitiosa Say)

Indiana

J. J. Davis (May 25): Reports indicate that the weather conditions following paradichlorobenzene treatments for the peach borer were unfavorable and that a less effective control than normal was obtained.

IMBRICATED SHOUT BEETLE (Epicaerus imbricatus Say)

Indiana

J. J. Davis (May 25): Tast week, about May 18, the imbricated snout beetle was reported by Mr. Burkholder of the Furdue Horticultural Department doing considerable damage to a young peach or chard at Bocheville, the beetles destroying the unfolding leaves.

PLUM CURCULIC (Conctrachelus nemapher Host.)

Massachusetts A. I. Bourne (May 21): A few plum curculios were collected from apple trees by the middle of the month, indicating that they had left winter quarters and gone into the orchards somewhat earlier than has been the case for the last two seasons.

North Carolina R. W. Leiby and assistants (May 10): Larvae of the first generation

now developing in peaches. This pest is apparently not so numerous as last year.

Georgia

Oliver I. Snapp (May 20): The curculio infestation in the Georgia Peach Belt is now lighter than it has been at any time during the last eight years at Fort Valley. The infestation has gradually become lighter since the curculio suppression campaign was started in 1921. Prospects now point to a Georgia peach crop of unusually fine quality this year.

Missouri

L. Haseman (May 21): This pest is beginning its work but it seems less abundant than usual in the orchards of central Missouri. Cherries are showing some stings but peaches seem free as yet.

ORIENTAL PEACH MOTH (Laspeyresia molesta Busck)

North Carolina R. W. Leiby and assistants (May 12): The first generation of adult began emergence today, reared from larvae collected in the field.

Georgia

Haliard De Ia Parelle (May 7): The Oriental peach moth has not appeared in any appreciable numbers in the State of Georgia this year. I have recently made a survey of the orchard at Macon which we used for experimental purposes last season, and did not find any of these insects. The same gratifying report comes from Mr. Oliver I. Snapp that the insect has not appeared in the Fort Valley district. We have had no reports of injury from any other section of the State.

Oliver I. Snapp (May 20): Adults of the first generation are now emerging. Both twig and green peach injury have been found in the field at Fort Valley and Macon. The infestation is very light.

CORN EAR WORM (Heliothis obsoleta Fab.)

Georgia

Oliver I. Snapp (May 18): The corn ear worm had practically destroyed the crop of peaches on 4,000 young peach trees at Plains. The grower had expected to harvest 1,500 crates from these trees. Hairy vetch had been planted in this orchard, and the grower failed to turn it under early enough. As the vetch became old the worms crawled up the trees and devoured the green peaches. Their progress into other near-by peach orchards and cornfields was halted only after deep furrows containing post-hole traps had been made.

BLACK PEACH APHID (Anuraphis persicae-niger Smith)

Mississippi

R. W. Harned (May 13): A second complaint in regard to the black peach aphid in this State has been received from Scooba. A correspondent mailed them on May 3, and reported that they were taken from young trees purchased in February from a nursery in North Carolina.

PEACH TWIG BORER (Anarsia lineatella Zell.)

Massachusetts

A. I. Bourne (May 21): Mr. Whitcomb reports discovering the peach twig borer, <u>Anarsia lineatella Zell.</u>, boring in the buds of peach on May 14, at which time larvae were apparently about two-thirds grown. His estimate of the injury they were causing ranged from 2 to 5 per cent.

South Carolina

J. O. Pepper (May 1): The work of this insect has been observed in a number of or chards in the Piedmont Section but is not considered as causing serious injury.

PEACH BORER (Aegeria exitiosa Say)

Missouri

L. Haseman (May 21): This pest has been scarce for two or three years in central Missouri and a few are to be found in untreated trees this spring.

COTTONY PEACH SCALE (Pulvinaria emygdali Ckll.)

New York

C. R. Crosby and assistants: A number of peach growers in Wiegars, Monroe, Orleans, and Wayne Counties, bordering Lake Ontario, are applying lubricating-oil emulsions and miscible-oil sprays for the control of this pest. Infestations are spotted from the several counties and in the orchard. A good percentage of the overwintering forms were killed during the winter.

CHERRY

CHERRY SCALE (Aspidiotus forbesi Johns.)

Ohio

E. W. Mendenhall (May 19): I find that most of the cherry trees in central and southwestern Ohio are infested quite badly with the cherry scale.

PLUM ·

RUSTY PLUM APHID (Hysteroneura setariae Thos.)

Georgia & Alabama

Oliver I. Snapp (april 27): I have received a number of specimens and complaints of this pest from Georgia and Alabama. In most cases they are attacking plum trees, but a few reports show damage to young peach trees. The spring has been unusually cool, with frequent light rains, and aphids of all kinds are more abundant than usual.

Mississippi

R. W. Harned (April 24): Reported by a correspondent attacking cherry at McCool on April 20, on plum at Newton on April 24, and was determined by A. L. Hamner as this insect.

SPRING CANKERWORM (Paleacrita vernata Peck)

J. W. McColloch (May 6): Eggs and larvae were received from

Kansas

Osawatomie with the report that they were very abundant on plums.

EUROPEAN FRUIT LECANIUM (Locanium corni Bouche')

New York

C. R. Croppy and assistants (April 10): This species appears to be prevalent on plum and prune, and in at least two orchards in Wayne County the infestation is serious.

CRAFE

EICHT-SPOTTED FORFSTIR (Alypia octomaculata Fab.)

Indiana

H. F. Dietz (May 13): Moths of the eight-spotted forester were first observed by F. N. Wellage on May 16.

SMOWY TREE CRICKET (Oscanthus niveus DeG.)

New York

C. R. Crosby and assistants: In several cases injury was caused by tree crickets in Erie County and oviposition observed.

GRAFEVINE HOPLIA (Hoplia callipyge Lec.)

California

E. E. Welly (April 20): This insect is reported attacking grapes and is doing considerable damage in the vicinity of Merced.

CURP ANT

TARNICHED PLANT BUG (Lyaus pratensis L.)

Indiana

J. J. Davis (May 24): Tarnished plant bugs were reported very abundant on current bushes at Walkerton on May 7, and were supposed to be responsible for the wilting of shoots. No positive evidence excepting specimens of the insects was received. The tarnished plant bug is scarce in southern Indiam according to Dr. B. A. Porter.

IMPORTED CURRANT WORM (Pteroniden ribesi Scop.)

Ohio

E. W. Mendenhall (May 24): This insect makes it appearance as usual and does a great deal of injury if not checked, but is easily controlled with arsenate of lead or hellebore.

Indiana

H. F. Dietz (May 18): The imported current worm hatched early in the month and noticeable injury by the larvae has been observed at Indianapolis.

Missouri

L. Haseman (May 21): Several are reporting the pest from different counties, but at this date most of the worms are practically mature.

Nebraska

Don B. Whelan (May 25): The imported current worm was first reported this season from Albion on May 5. Since then it has been reported from Lincoln, Omaha, and several other places in eastern Nebraska.

LIBRARY

Kansas

J. W. McColloch (May 10)! Severe injury has occurred at Frederick and Manhattan. At Manhattan gooseberries have been completely defoliated.

CURRANT AND COCSDBERRY MAGGOT (Epochra canadensis Loew)

Oregon

L. P. Rockwood (May 3): Flies were out and ovipositing at Forest Grove on April 26, two weeks earlier than usual because of the advanced season. This will necessitate early picking for canneries.

PECAN

CAMBIUM CURCULIO (Conotrachelus anaglypticus Say)

Mississippi

R. W. Harned (May 14): On April 25, J. E. Lee, Inspector for the Chare Plant Board at Poplarville, mailed to us several curculios, possibly Comotrachelus anselypticus, and pecar twigs that had been damaged by them. He reported that these insects were causing considerable damage to pecan trees in the mestern part of Pearl River County. On May 11, after visiting the infested area, he wrote: "The infestation seems to be confined to a section of the county next to Pearl River, but it is the most severe case of insect injury that I have seen on becans. The trees that these twigs were taken from are 30 years old or older and almost every trig is infested. The specimens that I am sending are from the property of J. A. Burge, Route A. Poplarville, the states that he has noticed the beetles for three years. You can find signs on the mood that I am sonding where injury was done last year. I want to scout the infestation in the county, I certainly hope that it will be confined to a small section for it will cause great loss if it spreads over the county. The trees that we have found infested so far are adjacent to hundreds of acres of woodland, and the hickory trees in the woods are infosted,"

May 4, S. A. Renfrow, Route 2, Wesson, Lincoln County, emt in a package of pocan twigs infested with what are probably the samepinsecus, He wrote: "The entire orchard is affected, some trees almost killed. The orchard has been infested for several years."

May 12, O. M. Chance, Inspector for the State Plant Board, went to Lincoln County to investigate this outbreak. He and Mr. Renfrow visited the forms of J. W. Hoggatt and Will Haley. He reported: We found that this insect is doing a great deal of damage, principally because of the fact that the larva bores the shoots on which the mut clusters form, thereby cutting off the fruit and foliage. On Mr. Hoggatt's farm, we found one tree that had shed a good part of its foliage, and apparently 90 per cent or more of the shoots left were infested. The owner expects this true to die. Mr. Hoggatt told mo that his trees were about ten years old, but he had only noticed this injury during the past three years. He said that it had gotten worse each year and that this season it was much worse than over. Mr. Moggatt said that the work of this insect was much more apparent early in the season, and that he did not remember it doing much demage later in the summer. In another grove about 100 yards from the Hoggatt place, three trues were found to be badly infested. In a grove inspected 3 miles array no injury from this insect was found."

On May 14 Mr. Chance found vecans $3\frac{1}{2}$ miles southeast of Brandon in Rankin County, injured by what is apparently the same insect. This infestation is apparently light, as only one larva was found in the twigs collected and sent in by Mr. Chance.

PECAN CASE BEARER (Minecla indiginella nebulella Riley)

Mississippi

R. W. Harned (May 22): Complaints in regard to what is probably the pocan loaf case-bearer have been received from a number of places in the southern portion of the State, as well as from Durant and Winona in the central part of the State. Injury from this insect has in the past not been noticed except in the southern part of the State.

PECAN NUT CASE BEARER (Acrobasis hebescella Hulst)

Texas

H. S. Adair (April 27): The first feeding of overwintering larvae at Brownwood of the pecan nut case bearer was observed March 23 on the swelling buds of the pecan. Cool weather immediately following this date checked the growth of the pecan trees somewhat and consequently checked the emergence of larvae from hibernation, since the emergence of the larvae coincides with the swelling and opening of the pecan buds. Recently much feeding of the larvae has been observed and the larvae appear much more numerous.

PECAN CIGAR CASE BEARER (Coleophora caryaeffoliella Clem.)

Mississippi

R. W. Harned (May 22): Complaints in regard to the pecan cigar case-bearer have been received from the Gulf Coast Counties recently.

PHYLLOXERA SPP.

Mississipoi

R. W. Harned (May 22): Inspector R. P. Colmer reports that he noticed the first Phylloxera galls on pecan trees this year on May 8 at Moss Point. These galls were identified by Mr. Hamner as <u>Phylloxera notabilis</u>. Specimens of Phylloxera galls collected on hickory at Ackerman have also been received and identified as <u>Phylloxera carvaecaulis</u>.

AN APHID (Longistigma caryae Harr.)

Mississippi

R. W. Harned (May 14): This insect was reported by a correspondent attacking pacans at Pascagoula on May 10, and was determined by A. L. Hammer.

CITRUS AND SUBTROPICAL

CITRUS APHID (Aphis spiraecola Fatch)

Florida

J. R. Watson (May 15): This insect has been much less abundant

than last year. The damage has been much less than 10 per cent of that of last year's attack. The relative scarcity this year is apparently due mostly to the fact that the steady cold of last winter prevented citrus trees from putting out any new tender growth, with the result that the aphids which can not live on mature foliage were reduced to small numbers. When the growth did come out it came out rapidly and the aphids were not able to thoroughly infest it before it became mature again. The big flush of spring growth, including a heavy setting of fruit, and drought has again put the trees into a very thorough dormancy as far as new growth is concerned and the aphids are very scarce.

Louisiana

T. F. Catchings (April 13): In four groves inspected at the Buras, all ner growth was found infested with aphids, and the leaves beginning to curl. Grapefruit, navel oranges, and Louisiana sweet oranges were not infested. Citrus nobilis deliciosa and Citrus nobilis unshiu were being attacked by this insect.

A. W. Cressman (May 4): Aphids are abundant on the above hosts.

Most of the new leaves have bee curled, and the aphids are
attacking the newly set fruit, causing considerable dropping. A
few growers have applied nicotine sulphate with good results
where leaves were not so tightly curled as to prevent the entrance
of the dust.

TRUCK-CROPINSECTS

GENERAL FEEDERS

PAINTED L.DY (Vonessa cardui L.)

California

T. D. Urbahns: The larvae are very abundant and causing injury to cultiwated crops adjoining vacant lots and uncultivated areas in Gridley, New Castle, and Sacramento.

E. E. Welly (april 17): Larvae plentiful, damage minor. Severe on hollyhocks at Merced.

CUPTORMS (Moctuidae)

Louisiana

Wormen Allen (May 8): Cutworms had cut many watermelon plants on one farm. This damage seemed to be in one locality in northern Louisiana. At Shreveport a few cutworms were found outting pepper plants, and a Dipterous larva was killing cowpea plants that were present at the time.

PEPPER TERVIL (arthonomus eugenii Cano)

California

J. C. Elmore (May 3): In a field near Bolsa, Orange County, the first spring generation is emerging. This field has had green plants all minter and is now producing very early peoper pods of the California Chili variety.

POTATO APHID (Illinoia solanifolii Ashm.)

Mississippi

R. W. Harned: The potato aphid was reported by a correspondent on English peas at Carpenter on April 30, and was determined by A. L. Hamner.

TORTOUSE BESTLES

Mississippi

R. W. Harned (May 22): Specimens of tortoise beetles accompanying complaints about their injury have been received from Centerville and Biloxi. From Centerville four different species were received: Chelymorpha cassidea Fab., Chirida guttata Oliv., Metriona bivittata Say, and Metriona bicolor Fab. From Biloxi the report states that as many as 11 beetles were found on a single sweetpotato leaf. The leaves were skeletonized by the beetles. Among the specimens received ware 3 Metriona bicolor Fab. ,8 Metriona bivittata Say, and 58 Chirida guttata.

APHIIDAE

South Carolina J.O. Pepper (May 15): Aphids have been vorse in gardens this year then they have been in recent years throughout the entire State of South Carolina, All the garden crops, as cabbage, turnips, beans, green peas, and eggplants, have been infested.

POTATO AND TOMATO

COLORaDO POTATO BENTLE (Leptinotarsa decemlineata Say)

South Carolina

J.O. Pepper (May 10): This insect is attacking the potatoes in abundant numbers. However, many of the eggimasses are being destroyed by their ladybird Hippodamia convergens Guer.

Morida

J.R. Watson (May 15): The Colorado potato beetle has appeared in destructive numbers in the northern part of Alachua County. This is the first appearance of this insect in destructive numbers so far south in the State, and in an important potato growing section of the State, A single specimen was taken at Gainesville last year. The insect has been in the two northern tiers of Counties of the State for many years,

Louisiana

Norman Allen (May 8): Colorado potato beetles are plentiful on potatoes at Gladstone.

Mississippi

R.W. Harned (May 22): Complaints in regard to the Colorado potato beetle have been received from several places in Mississippi during the past few weeks, including Grenada, Matchez, Vaiden, and Moss Point. Potatoes and tomatoes have been the host plants.

Texas

F.C. Fishopo (May 17): Half grown larvae were observed on garden potatoes at Dallas on this date. They appear not to be very abundant in this vicinity.

POTATO APHID (Illinoia solanifolii Ashm.)

Maryland

P.D. Sanders (May 19): The greatest damage was being done by the feeding upon the blossom buds causing them to drop to the ground. These buds usually produce the early tomatoes to be used for early green tomato shipments. This infestation is the most severe Maryland had had since 1918 and is general throughout Somerset and lower Worchester Counties. 100 per cent plants infested and as high as 34 aphids were found to a single leaf.

BOLL WORM (Heliothis obsoleta Fab.)

Florida F.S. Chamberlin (May 11): Eggs of this insect are being deposited in abundant numbers upon tomato foliage in Gadsden County.

CARROT BEETLE (Ligyrus gibbosus DeG.)

Texas

F.L. Thomas (May 17): Causing considerable injury to roots of temato plants in Garza County on May 3.

TOMATO SUCKFLY (Dicyphus minimus Uhler)

Texas

F. L. Thomas (April 22): Abundant and causing severe injury to tomatoes in a garden at Dilley, Frio County.

CABBAGE

CABBAGE APHID (Brevicoryne brassicse L.)

Maryland

P. D. Sanders (May 1): Infested plants stunted, leaves curling, and turning yellow. The 17,000 plants were dusted with a 4 per cent nicotine dust (sulphate source) using 90 per cent air lime and 10 per cent arsenate of lead as a carrier. A 97 per cent kill was effected.

IMPORTED CABBACE WORM (Bieris rapae L.)

Missouri

L. Haseman (May 21): This pest is unusually scarce this spring in central Missouri, and abundance as compared with an average year seems to be less.

CABBAGE MAGGOT (<u>Hylemyia</u> <u>brassicae</u> Bouche')

Indiana

J. J. Davis (May 25): The cabbage magget has been the subject of numerous queries from central and northern Indiana as a pest of cabbage and radish.

STRAWBERRY

SUGARCANE BEETLE (Euctheola rugicepo Lec.)

Mississippi R. W. Harned (May 14): W. L. Gray, Inspector for the State Plant Board at Natchez, collected on April 29 some rough-headed cornstalk beetles, or sugarcane beetles, on the crowns of

stramberry plants in Adams County. He reported that these insects were demaging the strawberry plants. When he was informed that we had never previously received complaints about these insects attacking strawberries, he went to the farm from which the previous specimens had been collected, and obtained more of the beetles, as well as a number of the plants that were being attacked by the beetles. These insects were boring into the strayberry crowns and roots near the surface of the ground just as they bore into corn and sugarcane,

RED SPIDER (Metranychus telerius L.)

Maryland

E, N. Cory (May 12): Becoming abundant on old beds of stramberry in Montgomery County. Dusting and spraying are general owing to great loss suffered from the same pest last year.

STRAMBERRY ROCT APHID (Aphis forbesi Weed)

Mississippi

R. W. Harned (May 5): Reported by a correspondent attacking strawberries at Natchez on May 5, and was determined by A. L. Hammer.

ASPARAGUS

ASPARAGUS BEUTLE (Crioceris asparagi I.)

Massachusetts A. I. Bourne (May 21): To date the asparagus beetles have not made their appearance at Amharst.

BEANS

MEXICAN BEAN BEETLE (Epilachna corrupta Muls.)

South Carolina J.O. Pepper (May 14): According to Mr. Eddy, assistant entomologist, field activity of this insect for 1925 started on May 10. It has not been found in the field as yet this season.

Mississippi

R. W. Harned (May 19): Under date of May 17, B. W. Jones, county agent of Tishomingo County, Miss., wrete as follows: "While in the Golden community in the south end of Tishomingo County on Friday, May 14. I learned that the Mexican bean beetle had practically destroyed many patches of beans and was demaging several more, "

BEAN LEAF BEETLE (Corotoma trifurcata Foerst.)

South Carolina J.O. Pepper (May 8): This insect is attacking young beans in the garden in abundant numbers in the Pjedmont Section. Serious injury is being caused in some places.

indiana

J.J. Davis (May 25): The bean leaf beetle was reported damaging bean foliage at Shoals on May 14.

Mississippi

R. W. Harned (May 22): Complaints are being received from all sections of the State in regard to the bean leaf beetle.

PEAS

PEA APHID (Illinoia pisi Kalt.)

Washington

R. L. Webster (May 21): W. L. Miller, living at Greeneres just east of Spokens, writes under date of May 19 that "from one to two hundred aphids are found on individual plants."

CANTALOUPES

CARROT BEETLE (Ligyrus gibbosus DeC.)

Texas

F. L. Thomas: Reported to be injuring cantaloupes in Bailey County.

SPOTTED CUCUIBER BEETLE (Diabrotica duodecimpunctata Fab.)

Louisiana

Norman Allen (May S): One larva was found in the cantaloupes at Shreveport. At Gladstone, about 9 miles out of Shreveport, larvae had destroyed plantings of contaloupes, many still present in the hills. At Bossier City, just across the river from Shreveport to rows of beans were found to be nearly dead. Upon examination larvae were found boring the roots and underground stems quite severely. Injured plants were brought in and turned over to Dr. Edgerton, State Plant Pathologist, who states that he could see no dispose present. This would seem to indicate that the beetle larvae were responsibles for the damage being done.

Mississiopi

R. W. Horned (May 22): The 12-spotted cucumber beetle, has been reported as demaging melons and cucumbers at a number of places in the State. Reports in regard to injury to corn by the larvae of these beetles have also been received from many localities.

STRIPED CUCUIBER BEETIE (Diabrotica vittata Fab.)

Mississippi

R.W.Harned (May 22): The striped cucumber beetle, has been reported as damaging matermelons, cucumbers, and cantalcupus from all sections of the State. One correspondent reported very serious damage to matermelons at Picayune, Miss., where he found as many as 10 beetles on one plant.

SBED-GORN MAGGOT (Hylenvia ciliarura Rond.)

Louisiana

Norman Allen (May 8): At Ruston the seed-corn magget had practicall destroyed plantings of vatermelon before the plants get out of the ground. The patch which had been so severely damaged by the seed corn magget was fortilized with barnyard manure and cottonseed much, which the grower thought was responsible for the injury. Practically all of the maggets were past the larval stage, and considerable of them had insued as adults, many of which were noted on the ground. (May be shother species).

At Shreveport, below fair grounds, the seed-corn magnet was found destroying cantaloups seed, or this damage had been done previous to the visit.

SQUASH

SQUASH BUG (Anasa trictis DeG.)

Nebraska

Don B. Whelan (May 25): The earliest reportifier the year, of damage by the squash bug, came from Creighton, Enox County, under date of April 30.

OMIONS

ONION THRIPS (Thrips tabaci. L.)

Mississippi

R. W. Harned (May 22): Thrips collected on onions at Pascagoula on May 1 have been identified as the onion thrips.

RHUBARB

RHUBARB CURCULIO (Linus concavus Say)

Indiana

J. J. Davis (May 25): The rimbard burculio was reported as severely damaging rhubart at New Albany on May 19.

Banist

A SNOUT BEETLE (Prigodes sp.)

Nebraska

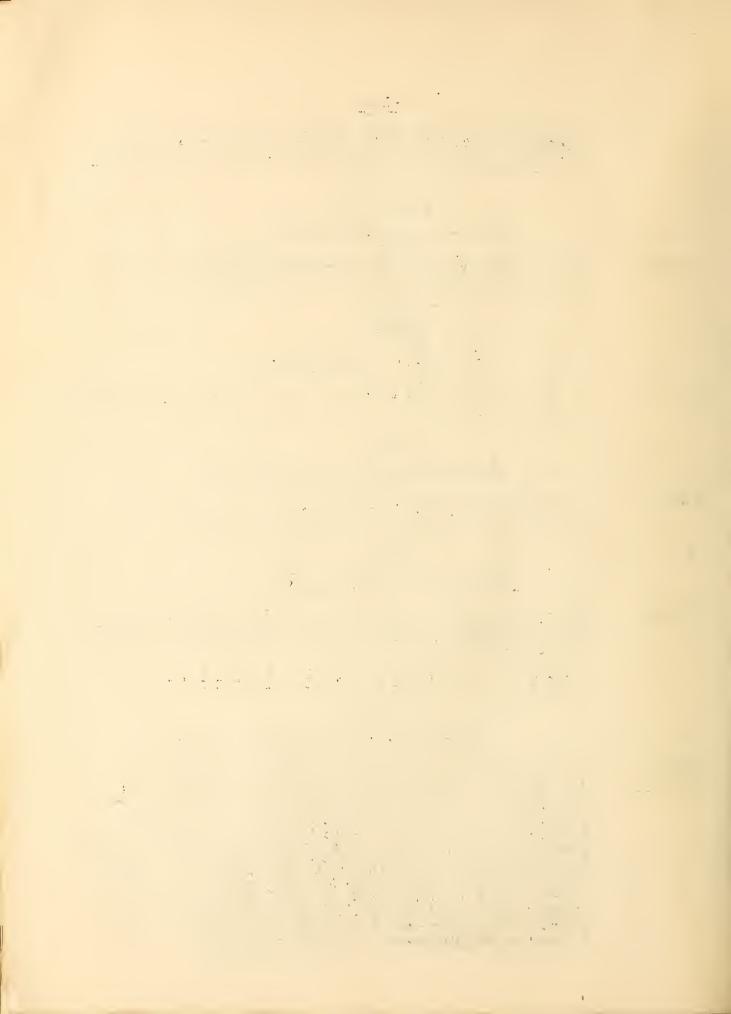
Don B. Whelan (April 25-May 25): A shout beetled Phirodes sp., has been reported from Gresham, York County, as working on and destroying radishes and turning.

SOUTHERN FIELD-CROPINSECTS

COTTON

BOLL WEEVIL (Anthonomus grandis Boh.)

GENERAL STATEMENT B. R. Coad: (Weevil amergence generally at the different cooperating stations has been shoter during the last fifteen days of April than was indicated by emergence during the first fifteen days of the month. At the various stations a total of 255 weevils emerged during the latter helf of the month compared to 321 during the first half. The total emergence prior to May 1 at the 17 stations was 0.91 per cent while during the same period last year 2.23 per cent of the weevils emerged at the stations then cooperating. The emergence last year prior to May 1 represented 71.8 per cent of the total emergence. At Tallulah, La., during the past 10 years an average of 33.5 per cent of the emergence was completed prior to May 1. The



FOREST AND SHADE-TREE INSECTS

GENERAL FEEDEPS .

BAGWORM (Thyridoptorym ephemeraeformis Haw.)

- Illinois

 J. J. Davis (May 25): Bagworms are prevalent as usual and overvintering cocoons are reported common in some or chards in
 southern Illinois.
- Missouri

 L. Haseman (May 21): The pest was very abundant last year but as yet few are reporting the pest this spring. It is still a little early to find the young at work.
- Arkansas W. J. Baerg (May 18): The caterpillars began hatching on May 17. Indications are that in this locality (Fayetteville) the infestation will not be very severe.
- Kansas

 J. W. McColloch (May 15): Large numbers of overwintering bags are to be found on cedars at Carlyle and Netawaka. At Manhattan several bags were found on willows growing along Kansas River.

 This is a new distribution record.

ASH

ASH SAWFLY (Tomostothus bardus Say)

Kansas

J. W. McColloch (May 17): Larvae were received from Grantville and McPherson with the information that they were causing serious injury to the foliage of ash trees.

BIRCH

BIRCH PSYLLID (Psyllia striata Patch)

New York

E. P. Felt (May 26): <u>Psyllia striata</u> is present in scattering numbers, the young being found usually in partly opened leaves or in clusters which have been webbed together by a small leaf roller.

BIRCH LEAF MINER (Fenusa pumila Klug)

New York

E. P. Felt (May 26): The birhc leaf miner adults were somewhat prevalent on birches at Karner on May 25. Last year (May 28,1925) this insect was generally abundant at Karner and it is probable that conditions will be nearly the same on that date this year.

ELM

ELM SAWFLY (Cimbex americana Leach)

Massachusetts A. I. Bourne (May 21): The elm samfly is just beginning to make its first appearance. The first adult flies were noted this

morning, May 21, appearing in small numbers on the Camperdorn elms on the compus.

ELM SCORFY SCALE (Chionaspis amoricana John.)

Indiana

J. J. Davis (May 25): This scale appears to be as numerous as a year ago. No hatching has occurred at La Payatte up to date.

Nebraska

Don B. Whelan (April 25-May 25): The white elm scale was sent in from Saline County.

LAR CH

WOOLLY LARCH APHID (Chermes strobilobius Kalt.)

NowYork

E. P. Folt (May 26): The woolly larch aphils have just hatched and are rather numerous on larches in Washington Park, Albany.

MaPIF

COTTONY MAPLE SOLLE (Pulvinatia vitis L.)

Indiana

J. J. Davis (May 25): The cottony maple scale is as abundant as usual in the northern half of Indiana. Already we are receiving reports of abundant honeydew dropping from infested trees.

H. F. Dietz (May 18): The cottony maple scale in the overmintering stage was found abundant at Renscelaer, Monticello, Vinchester, and Mappanse on soft maple and boxelder. Infestations were also found on soft maple in Indianapolis and at Ben Davis.

CAM

O.K IIC.NIUM (Lecenium quercifex Fitch)

Mississinpi

R. W. Harned (Mry 14): The oak lecanium seems to be frirly abundant in Mississippi at the present time. Recently oak trigs badly infested with this species have been received from correspondents located at Beldon, Maddon, Verona, and Guliper

PIME

PINE LEAF SCALE (Obionasmis pinifoliae Fitch)

Indiana

J. J. Davis (May 25): This scale appears to be as numerous as a year ago. No hatching at In Pryette up to date.

Nebraska

Don B. Wholan (april 25-May 25): The pino leaf scale has been noticed at arlington, Lincoln, and Laurel, at the latter pla about 25 spruce trees were affected, three of which died from this past.

COTTOINCOD

COTTONWOOD SCALE (Chionaspis ortholobis Comstock)

Nebraska

Don B. Whelan (April 25-May 25): The cottonwood scale was found in Rock County.

WALITUT

WALNUT CATERPILLAR (Datana intergerrima G.& R.)

Indiana

J. J. Davis (May 25): The valuat Datana has been the subject of numerous letters from central and northern Indiana calling attention to the seriousness of the pest in 1925.

GREENHOUSE AND ORNEMENTAL PLANTS

MISCELLANEOUS FEEDERS

GREDNHOUSE LEAF TYER (Phlyctaenia rubigalis Hbp.)

Indiana

H. F. Dietz (May 18): The greenhouse leaf-tyer has been found inappractically every greenhouse in the State during the pact five months! inspection. Although no serious damage has been seen or reported to date, nevertheless, unless measures to control this insect are taken, considerable loss may be expected. The plants that have been commonly observed as infested are feverfew, cineraria, calceolaria, chrysanthemum, forget-me-not, snapdragon, and geranium.

LEAF ROLLER (Tortricidae)

Ohio

I. W. Mondenhall (May 4): These insects are a menace to plants in greenhouses and are very hard to cradicate. Paris green or arsenate of lead seems most effective. They seem worse some years than others. They are very bad this year and the greenhouse men are busy fighting them.

A DIGGER BEE (Andrena vicina Smith)

New York

E. P. Felt (May 26): A digger beem provisionally identified as <u>andrena vicina</u>, established itself and seriously injured a rather sandy poor land in the vicinity of Albany, there being nearly 400,000 holes per acro, each surrounded by a small mound some half inch high and two or three inches in diameter Watering. liberally with a tobacco soap preparation killed many of the insects.

GREENHOUSE THRIPS (Helicthrips haemorrhodalis Bouche)

Indiana

H. F. Dietz (May 18): The greenhouse thrips has been a very troublesome pest on chrysanthemums throughout the State.

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Feveffew and carnations have also suffered from the attacks of this insect.

RED SPIDER (Tetranychus tolarius L.)

Indiana

H. F. Dietz (May 18): In a serious greenhouse pest at this time because during the dark weather that we have had since October, 1925, florists were unable to use customary syringing under strong pressure. As a result heavy infestations of this pest are common on rosos, carnations, gladioli, and sweet peas.

Mississippi

R. W. Harned (May 22): Red spider injury to rose has been reported from Natchez in Adams County, and from Carrollton in Carroll County a complaint has been received in regard to red spider injury to carnation.

GREENHOUSE WHITEFLY (Trialeurodes vacorariorum Westw.)

Chio

E. W. Mendenhall (May 4): This is one of the greenhouse pests thich have to be fought diligently in southwestern Chio. It is not new to greenhouse men for it will breed in nearly all hothouses where its host plants such as Lantana, orange, lemon, and some others are found. Calcium cyanide seems to be effective

CHRYSANTHEMUMS

CHRYSANTHEMUM GALL MIDGE (Diarthronomyia hypogaea F.Loev

Indiana

H. F. Dietz (May 18): Light infestations of the chrysanthemum midge have been found during the past two months at Indianapolis Kokomo, Ia Fayette, Newcastle, North Manchester, and Richmord. The only heavy infestations of this past were at Kokomo and Newcastle in greenhouses where no control measures were taken. The method of shearing off the tops of the stock plants to the ground line or slightly below, keeping the plants rather dry until growth starts again, has proved an effective control of midge if all stock plants are thus treated. Better plants than usual have been produced through this method.

ONION THRIPS (Thrips tabaci L.)

Indiana

H. F. Dietz (May 18): Thrips tabaci L. has been a very troublesom post on chrysanthemums throughout the State. Feverfew and carnati have also suffered from the attacks of this insect.

BLACK CHRYSANTHEMUM APHID (Macrosiphoniella sanborni Gill.)

Mississippi R. W. Harned (May 20): Reported by a correspondent on chrysanthemum at Laurel on this date, and was determined by A. L. Hamner.

GREEN. CHRYSANTHEMUM APHID (Phonalosiphum rufomaculatum Wi

Mississippi R. W. Harned (May 20): Reported by a correspondent on chrysanthemum at Laurel on this date and was determined by A. L. Hamner.

FERN .

FERN SCALE (Hemichionagnis aspidistrae Sign.)

Ohio

E. W. Mendenhall (May 4): Old plants and "carried over" plants at Springfield become infested with the fern scale and it is a hard one to treat. A soap solution seems to be a safer method to treat the ferns. The calcium cyanide does not seem to be effective and nicotine sulphate seems to burn the plants.

TRIS

IRIS ROOT BORER (Macroncetus onusta Grote)

Indiana

H. F. Dietz (May 18): The iris root borer bagan hatching on May 2, and has been hatching on warm days up to the present time. From our observations and from reports that are being received this insect will probably be more abundant than in 1925.

FOLLY

HOLLY LEAF MINER (Phytomyza ilicis Curtis)

New York

E. P. Felt (May 26): appears to be able to maintain itself upon Long Island, since infested shrubs have been repeatedly observed from 1321 to date. The insect appears to be a very local one.

LILLIES

a NOCTUID (Xanthopastis timais Cram. (form regnatrix)

Mississipvi

R. W. Harned (May 22): R. P. Colmer, Inspector for the Plant Board at Moss Point, reported serious injury to narcissus on May 1 by insects that have been identified by F. H. Benjamin as the larvae of this insect. Later Mr. Colmer sent more of the larvae that were damaging narcissus and also some bulbs of spider lillies taken from the same property that have probably been injured by these insects. Three of the bulbs received had holes in them made by an insect that had burrowed entirely through them, beginning at the surface of the soil and coming out at the bottom.

RHODODENDROH

EUROPEAN HORNET (Vespa crabro I.)

New York

E. P. Felt (May 26): A portion of a rhododendron stem some 2 inches in diameter was apparently severely injured by this insect, there being numerous transverse girdlings, extending to the wood, several inches in length and suggesting very strongly crude work with a hand saw. The affected stem was some 2 inches in diameter.

ROSE

POSE MIDGE (Pasyneura rhodophaga Coq.)

Indiana H. F. Dietz (May 18): With the advent of warm weather rose midge <u>Dasyngura rhodophaga</u> injury has become noticeable in two greenhouses at Newcastle.

POTATO APHID (Illinoia solanifolii Ashm.)

Mississippi R. W. Harned: Reported by a correspondent on rose at Holly Aprings on April 23, at Marks on April 22, and at Poplarville on April 24, and was determined by A. L. Hamner.

THRIFS (Thysanoptera)

Mississippi R. W. Harned (May 22): Reports in regard to thrips injuring roses have been received from many points throughout Missippippi.

ROSE LEAF BEETLE (Nodonota puncticollis Say)

Maryland J. A. Hyslop (May 30): Very numerous (10 to a flower) on hybrid tea roses in Mentgomery County.

SNOVBALL

SNOWBALL APHID (Anuraphis viburnicola Gill.)

Indiana J. J. Davis (May 25): The snowball aphid was reported early in May as very troublesome in some localities in central Indiana.

SPIRABA

SPIRADA APHID (Arhis spireaella Schout.)

South Carolina J. O. Papper (May 15): The aphids have been more abundant this year than common on spiraea.

APPLE APHID (Aphis pomi DeC.)

Mississippi R. W. Harned (April 23): Reported by a correspondent on spiraea at Tupelo and Utica on April 23, and was determined by A. L. Hamner.

INSECTS ATTACKING MAN AND

DOMESTIC ANIMALS

MAN

BFDBUG (Cimex lectulariusL.)

New Mcxico J. R. Douglass (May 23): Several inquiries have been

received for the control of bedbugs by people living in adobe and log houses in the Estancia Valley since May 1.
For the last three seasons complaints have been received in May that the bugs had become active.

CHIGGERS (Technological a irritans Riley)

Texas

- F. C. Pishopp (May 7): The first chiggers observed this season were picked up on May 7. The number increased considerably and considerable annoyance is being experienced by those coming in contact with heavy weed growths at Pallas.
- D. C. Parman (May 21): The chigger was first observed in the canyons on May 7 and increased quite rapidly, judging from reports, and at present it is quite annoying to camping parties. It was first observed at Uvalde May 15 and it is rarely observed to date.

FLEAS (Siphonaptera)

Missouri

L. Haseman (May 21): Several complaints have already been received from different parts of the State indicating that the pest seems to be active earlier than usual.

HOUSE FLY (Musca domestica L.)

Texas

F. C. Bishopp (May 24): House flies have increased in numbers at Dallas during the last week so as to retather troublesome in homes, restaurants, etc.

SHEET

BLACK BLOWLLY (Phormia regina Mong.)

Texas

F. C. Bishopp (May 3): Some cheepmen in Menard and adjacent counties are experiencing considerable trouble from wool maggets in sheep carrying 12 months' fleece. Some report as high as 20 per cent of ewes which were not tagged early in the season to be infested with wool maggets.

CATTLE

OX WARBLE (Hypoderma lineatum DeVill)

Nobraska

Don B. Whelan (April 25-May 25): Under date of April 29, specimens of the heal fly were sent in from Emmet, Holt County, where they proved very annoying to cattle this spring.

CANYON HCRSEFLY (Tabanus rubescens Bellardi)

Germas D. C. Parman (May 21): An occasional adult was observed on

cattle in the Musees anyon on May 7. Two egg masses were found. (May 16): Adults were observed on livestock in the Sabinal canyon, never more than two op three on an animal, One fly was observed ovipositing on a stone in the river and several masses of eggs were found. The egg parasite Prophanurus emersoni. Girault was observed ovipositing on a fresh mass of tabanid eggs.

COMMON BOT FLY (Gastrophilus intestinalis DeG.)

Texas

F. C. Bishopp (May 2): A number of freshly deposited eggs of this species were observed on horses in this vicinity (Menard), although no adults were actually seen ovipositing. The number of eggs per animal ranges from 100 to 300.

THROAT BOT FLY (Gastrophilus nasalis L.)

Texas

F. C. Bishopp (May 2): These bot flies were causing some annoyance to horses in this locality (Menard). Some animals show an infestation of several hundred eggs whereas others have comparative few.

HORN FLY (Haematobia irritans L.)

Missouri

L. Haseman (May 21): This post is starting out early, as it is already quite abundant. Some dairymen are already asking for fly spray recommendations.

Texas

- F. C. Bishopp (May 2 and 3). Horn flies are eausing range cattle some annoyance in this section (Monard and San Sata). The number present per animal ranges from about 100 to 1,000 with an average of about 400 per animal,
- D. C. Parman (May 22): The horn fly is beginning to show up again at Uvalde and as many as 200 adults are observed on some cattle. Most of the cattle have no flies on them, (May 7): Observations were made in the Nucces canyon to 40 miles north; flies were first noticed about 10 miles north of Uvalde and increased north as far as was observed until from 100 to 2,000 flies were on most entile along the river and in shaded pastures; in the open higher pastures the flies were fewer, never more than 200 to 300 on any eattle.
- F. C. Bishopp (May 24): Horn flies are decidedly less numerous on cattle in the vicinity of Dallas than is usual for this time of the year. The number ranges from 100 to 500 with an average of perhaps 200 per animal.

SCREW WORM (Coehlitonyia macellaria Fab.)

Texas

D. C. Parman (May 21): The adults began to appear in good numbers again about May 14; trapping May 5, 1,496; May 17, 5,820 adults town. A few cases of werms were found the first of the month and there has been some increases; to date there have never been reported more than 10 cases on any ranch, a good deal less than 1 per cent infestation.

F. C. Bishopp (May 24): At Dallas apparently little trouble has been caused by screw-worm infestations of live stock up to date. Flies are extremely abundant, however, as indicated by tremendous catches made in flytraps about meat packing establishments. The major part of these catches is made up of three species in about the following proportions: G. macellaria, 61 per cent; Fhormia resina Meig. 22 per cent; Musca domestica L. 17 per cent.

STABLE FLY (Stomexys calcitrans L.)

Texas

- D. C. Parman (May 21): The flies were not noticeable at Uvalde on May 16, but a few were observed on cattle and horses at Sabinal and they were quite noticeable at Utopia in the Sabinal canyon; there were from 3 to 25 on most cattle and horses or mules.
- F. C. Bishopp (May 24): The stable fly has become quite annoying to dairy cattle and horses in this vicinity (Dallas) during the last few days. The abundance appears to be very closely correlated with local breeding places, and herds on farms where there are no suitable breeding grounds are comparatively little troubled.

LONE STAR TICK (Anblyonna americanym L.)

Texas

F. C. Bishopp (May 3): Adults of the lone star tick are fairly abundant in this locality (Menard). They not only annoy people but are present in numbers on stock, especially goats,

POULTRY

PIGEON HIPPOBOSCIDS (Lynchia maura Bigot)

Florida

F. C. Bishops: (An infestation of the pigeon hippoboscid was reported from Gardenville.

BTICKTIGHT FIEA (Echidrophaga gallinaces Westw.)

Texas

D. C. Parman (May 21): To date no heavy infestations of fleas have been found but the flea is generally present in flocks of chickens; the heaviest infestation observed was south of Uvalde in the sandy land; about 50 per cent of the chickens examined had fleas and there were from one to about 25 fleas on these.

INSECTS AMPESTING HOUSES AND

PREMISES

TERMITES

Indiana

J. J. Davis (May 25): The termite situation in Indiana is unchanged. The problem is not decreasing in importance and if there is any change it is for the worse.

Illinois

August E. Miller (May 19): It can scarcely be said that termites are more troublecome this year than during preceding years, However, many reports from the State are on file indicating the serious

nature of this insect's ravages in all types of rooden construction, and occasionally in dead or dying plants. The severity of this general infestation has reached such proportions as to justify an intensive study of the insect which is now being started, with the hope of developing a more effective control than that now available.

J. W. McColloch (May 20): Injury to woodwork in dwellings has been reported from Augusta, Blue Mound, Auchison, and Long Island, At Smith Center white ants are working in the woodwork of the Courthouse.

A report from Marion says the ants are working in the legs of billard and pool tables in a store building.

At Manhatten, Junction City, and Randopph, injury has occurred to asters and other ornamentals.

- Texas F. C. Bishopp (May 24): Many reports have been coming in of house infestation of termites in this vicinity (Dallas). Swarming was reported by two people on this date.
- GENERAL T. E. Snyder (May112): Cryptotermes brevis Walker, a nonesubterranean STATEIGIT termite, has been found injuring a trunk on the third floor of St.

 Anna's Asylum in New Orleans, La., by Ed. Foster, a collaborator of the Federal Horticultural Board. This termite has been imported into the United States where it has done serious damage to buildings at Key West, Miama and Palm Beach. This is the first record of its occurrence in the United States outside of southern Florida.

C. brovis occurs in the Wast Indies, Central and South America, and South Africa. It is one of the powder-post termites and is of gree economic importance. Probably this termite could survive throughout the southern United States as far north as Washington and San Francisco

POWDER-POST BENTLES (Lyctus spp.)

Kansas J.V. Macolloch (May 5): A dealer at Coffeyville reports a heavy infestation of powder-post beetles in the wooden handles of his stock of spades and shovels,

DOG FLEA (C:cnocephalus canis Bouche)

- Indiana J. J. Davis (May 25): Fleas have also been the subject of numerous inquiries.
- Texas F. C. Bishopp (May 24): Many reports of flea infestations under, around, and in houses at Dallas have been coming to the laboratory during the past two weeks. The infestations are associated in every case with cats and dogs which have been kept on the premises within the last few months.

ANTS (Formicidae)

Indiana H. F. Dietz (May 18): Ants have been a very troublesome pest

in larms in Indianapolis this year. The species that we have seen or that has been brought in has been tentatively identified as Formica fusca L., subsp. subscricea Say. This same species along with others, collected in large numbers on the buds of promies to gather the nectar. which is secreted in large quantities. Numerous calls are received by the State Entomologist's office that the ants are injuring the buds but the most serious damage we have been able to convict the ants of in this respect is as carriers of the peony will disease and bud blast. (both caused by the funges, Botrytis so.).

A PYRALID MCTH (Aglossa cuprealis Hon.)

Georgia

T. E. Snyder (May 29): Some lepidopterous larvae were sent in with a report that they were boring in chairs and other furniture at the Jokyl Island Club at Brunsmick, Ga. Moths reared from these larvae were determined by Karl Heinrich as the above species, a native of Europe and well established in this country. The larvae feed principally on grains and stored products.

CLOVER MITE (Bryobia praetiosa Koch)

Nebraska

Don B. Whelen (May 25): The clover mite was found at Lexington, Dawson County, where it proved to be obnexious in a farmhouse by going through cracks in the window sills and in staining up walls and getting on the bed clothes.

