# THE INSECT PEST SURVEY BULLETIN

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

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BUREAU OF ENTOMOLOGY

UNITED STATES

DEPARTMENT OF AGRICULTURE

AND

THE STATE ENTOMOLOGICAL AGENCIES COOPERATING



#### IPSECT FLST VRV. Y SULL. DIL

Vol. 7

Forember 1, 1927

To. 9

CUISTADDING ENTONOLOGICAL PERFURES IN THE UNITED OFFICE FOR OCTOBER, 1927

A flight of the lesser migratory or schopped is reported from western fensas and severe demane has already been done to fall-some wheat in certain localities.

The fall ermy-orm is doing consider the damage in certral Illineis, or stern Februsia, and Mansas.

The summer Hessian-fly curvey of the Hiddle Atlantic States shows higher infestation than has prevailed for several years. A general summary of the survey appears in this number. This are also reported as abundant in south-central Kansas.

Saveral new counties in Farmerly mis, Ohio, Indiana, and Michigan have been found intested by the European corn bore in the course of the October scouting work.

The San Jose scale is not reported as unusually abundant from any part of the eastern fruit belt, though indic time earlier in the season were that unusual infestations were to be expected.

In general, the codling-moth situation of the Eastern United States has been favorable; considerable vormy fruit, however, is being found in eastern export apples.

The apple and thorn smeletorizer is reported for the first time from the State of Thine.

In the apple-growing section of West Virginia a very unusual outbreak of the apple marget occurred this year.

In the Georgia peach belt, the peach borer is so serious that an unusually large quantity of paradichlorobenzate is being used this year.

The Mexican been beetle has been found one county east of our last record in Mow York State (Stephen County). A single beetle has been found north of Washington, D. O., in Montgomery County, Maryland. An infestation is the eastern part of Morth Chrolina is decided a more intense than last year. In South Carolina the recorded spread is gractleally one tier of counties farther east than according to our last report, intending construct to a line between

Dillon and Bernaell. In Michigan the recorded infestation is two counties forther north than proviously recorded, extending into Wayne, Chiland, and McComb Counties in the southeastern part of the State.

The current recycl is doing considerable damage in southern Illinois.

As anticipated in our summer numbers of the bulletin, the cotton leaf worm did practically no damage in the northern impit belt this year.

Throughout the once stands of northern Idaho, masent indications are that another emidemic of the mountain pure beetle is under way. A similar epidemic has been under way for the past few years in the Bitter Post region of Montene.

The heaviest losses in the past 10 years from the ravages of the Jeffrey pine beetle in the area included in the California-Oregon control project are now occurring. The older epidemic in the Tryo Mational forest is now on the declars.

Several reports of damage to garden plants by the fire ant have been received from Mississinoi.

#### GENERAL FEEDERS

## 

Illinois

T. P. Flint (October 17): Severe injury by various species of hite grabs to corn has been reported from money joints in contral and northern Illinois.

Kingus

7. The Collock (Cotober 1): The county agent of Cheyenne County, reports that white grubs have destroyed a field of theat. Counts showed that there were seven trube to the square foot

SPAIN FORERS (Pursuate som.)

Tisconsin

E. L. Chambers (September 15-Coteber 1): Lotus borers and smartmeed borers, <u>Pyrausta</u> spp., are very abundant in several localities in limited smartweed ratches and lotus beds.

## CHAIN-STOTTED GEONGER (Cingilia catenorio Drury)

Paine

J. R. Phipps (Totober 6): The chain-spotted geometer autenred in destructive numbers about autest 15, defoliating blueberry, erest form, gray birch, and many other plants.

Wisconsin

7. L. Chambers (September 1)-October 1): Thousands of meths were observed about the light; at Flack River Falls on September 17. The corrounding bo, Isah was stricted by larvae.

## LESSER HIGRARONY GRASHIDERER (Melonotius atlanis Rilay)

A: ne ic

J. W McCollech (Catober 10): The least migratory grasshopper has crused some damage to fill-som wheat in western Hanans. Flights have been reported from Tract Bend and Tichton. (Softembly 30): These are schowners are reported to be present by the handreds of thousands in the fields of Talco. On September 29 a bir flight of grasshoppers passed over Great Bind.

## DIRELL MID FORAGE - OROF INSECTS

## MISCELLA TOUR FUIDERS

## FAIL ALIYUUM (Icethana finginerta S. & A.)

l'ebroska

II. It is take (So tumber 19-October 25): Puring the first week in warust an instance of the fill armywork octorpillars attacking the ers of sorm, and burrowing in the cot of the attacked erro, was found in Orsa Sounty.

Illinois

T. P. Flint (October 17): Fell armyrorm larvae have been reported from several points in a strol Illinois, injuring corn and alfalf.

...nras

ore hadly injured by the fill comporm. The love and been destroyed and the forms for a partial in the corp or stalks.

#### 112 12

## IDSSIAN THE (Thytoring destructor Pay)

Middly Atlantic States

3. 3. Hill and H. D. Smith (October 3): A scian-tly curve's made this summer show more fly inflatition in the elstern cheat-growing and then there has been for some years plat. Records of percentage of inflat tion were based on culms. The following summary shows the everage inflation per county of the St test under survey.

1927			194				
	Tunber of counting	: 15		:	counties		count;,
Penno .: Pol : Nú : Ve : T.74 :	3 10 1		33 21 21 25 51	***	21. 1 5 	: : :	1 0 2 - 1 0

ansas

J. T. McColloch (October 20): A curve, made during early October thous the fly always at in the couth-central part of the State, also one infestation in Thomas County.

PLAINS FALSE WIRE TORM! (Electes opice Cay)

nsar

T. W. McColloch (September 25): Wheat is being destroyed before germination at Pierceville and Gardon City.

#### CCRI

## EUROPEAN OCHT BORER (Progeta nubililia Mach.)

ct jumbnt

Houthly Letter inredu of Entomology, No. 161, (september, 1927):
I summer snipment of 50,200 syraptic nubilalis chrysalide, erasitized by Phieosomes Manifrens Test. and 7,500 cocoons of Dioctes nunctoric Roman was mide on arough 9 from Genou, Italy, by the European perssite laboratory at Hyeros, Var. Trance. These paracites were collected by Ir. A. E. Parker at Jurgamo, in Lombardy, Total chipments of Pyrametrip radites from Europe to this country for the last fiscal year tore Luling ris crossifemar From.,47,540:

Dioctes manctoric, 11,209; Misicens couldis Rond., 1,652;
Mideoractor tibialis Fees, 10,720; and Phieogenes planifrons,

17,017. At the Arlington, Mess., laboratory there were reared 42,704 Zenillia roseans 3 & B.; 11,447 Macrocentrus abdominalis Fab.; 87 Dioctes munctoria; 53,175 Apanteles sp.; and 5,684 Masicena senilis. These two lists tomake the total parasites sent parasites sent for use in the worfare against the corn borer, 538,037. To collect the imported parasites 150 laborers were employed for two weeks in the summer collecting period, extending from July 25 to August 10, 1925, in northern Italy, and 146 during the months of November and December, 1926, and January and February, 1927.

General statement

Corn-Borer Control Extension Service, No. 20 (October 15): Comparison of infestation in Michigan, Ohio, New York, and Pennsylvania, 1925, 1926, 1927.\*

Total larvae per 100 stalks

	1925	1926	1927
Michigan Chio New York Pennsylvania	1.50 1.90 +.48 2.66	10.73 5.40 7.00 5.59	35.56 4.02 10.78 17.72
average for whole area	2.11	8.02	12.98

<sup>\*</sup> Figures for survey not complete September 19, 1927.

Pennsylavnia

Corn-Borer Control Extension Service, Mos. 19-21 (October 1-22): Scouting for borers in new territory is still being carried on under the direction of L. H. Worthley. The following counties have been added this season: Luzerne, Morroe, and Wayne.

Chio

Corn-Borer Control Extension Service, Nos. 17-21 (September 17-October 22): The following counties have been added this season: Clark, Fairfield, Chempaign, Ferry, and Belmont.

Indiana

Corn-Borer Control Extension Service, Mos. 17-21 (September 17-October 22): The following counties have been added this season: Elkhart, Huntington, Ibrshall, St. Joseph, Jay, Randolph, and Wabash.

Hichigan

Corn-Borer Control Extension Service, Reports Nos. 19-21 (October 1-22): The following counties have been added this season: Alconomalpena, Barry, Berrion, Ingham, Iosco, Kalamazoo, Midland, Fresque Isle, St. Joseph, Cheboggam, and Arenac.

Janada

Corn-Borer Control Intersion Service, Report To. 19 (Cotober 1): Scouts in Canada have discovered an infestation in the Cobalt mining area, 350 miles north of the original outbreak at St. Thomas, Chtaric, said Prof. L. S. McDaine of the Dominion government at Ottava. Infestations have also been found on St. Joseph Island and Menitoulin Island in northern Lake Huron and at several points in suchec. Nove Scotia and been scouted but no borers found there.

## CCRI LAR TORI (Ikliothis ob olota Fab.)

North Carolina 6. A. Brannon (October 1): This inject was reported by the countracent of Graven Jounty as sever ly injuring soy beans.

Wisconsin

E. L. Thambers (September 15-October 1): Less than 20 per cent of the sweet corn, southern counties is infested with the corn car your.

obrasa

II. H. Smeak (September 25-Cataber 15): Complaints of injury by the third brood of the corn can continued to be received in about the normal markets during the latter part of September and the first mode in Cataber.

## CORN ROOT MORIL (Disbrutica longicornis Say)

Ten York

E. P. Felt (Cetober 25): Corn root worm adults were numerous September 15 in a corn field at Onglerville, Livienston County, being attracted to ears which had been injured by raccoons.

#### CONFIDAC 15 FI

## TUR- FOILD BEAN TENTL (Hylbris Quadrimaculatus Fab.)

Lississippi

R. W. Harned (October 1): Cortous injury to field mas by this species of a reported from Cale today October 6.

## COMPEA JURGULIC (Onglood ormug acnous Boh.)

Masiasippi

R. T. Harned (October ): Caribus injury to field peas was also roticed at Caledonia Catabar 5.

## GRASS

## A WEBTORN (Crambus ep.)

California

Northly I we better, Los angel a Sounty horticultural Commission. Vol. 9, No. 16 (October 15): The small dark brown insect larvae found feeding on grass roots and recently reported from many parts of Los absoles Jounty at crucing considerable injury to lawns represent a species of sour appoints or crambin, according to determinations received by E. . . . Tuitage, Intemplojist, Los angeles County Norticultural Jountainationar's office, from eastern authorities on this group. These insects are recorded as being of more or less common occurrance throughout the United States, but only occusionally causing serious injury to their hosts. They

live ir silmen tuous just below the surf; or of the soil, fleding on the roots and felic to of present oursels and in some of the layers a real and into the stems.

## GREEN JUNE BEDTLE (Cotinis mitida L.)

orth Oughin

- A. W. Joily (October 14): Improve of the group June boutle are considerable damage and respectively more serious than lest year.
- O. H. Brannen (October 20): Ir. E. W. Brant, Gustonia, reports that his hope large has been conjously demand by June buy larvae. Ir. A. R. Hor ow reports the June bays have consed serious injury to golf greens in the vicinity of Clatersville.

#### TRUIT IFSECTS

#### MISCELLATEOUS FELDERS

## SAN JOSE COALE (Aspisiotus porniciosus Comat.)

Tiudlo atlantic States I. Mostal (October 4): Inspection of emort apples from the Inddle Atlantic States during the month of September, at the Port of New York, reveals considerable infestation of San Jose scale. Out of approximately forty carloads or part carloads inspections, this insect was present in ministen instances, infestation ranging from 1/2 of 1 per cent to 40 per cent of the apple, in inspection scaples.

Lorgiu

O. I. Show (October 20): The lost Jose scale increased rapidly during the summer, and by the letter part of Aspect the infestation was very heavy. Recent observations have revealed the fact that many of the insects have died since summer, probably as a result of predicted enemies or presites. The same thing occurred in 1925. I am still mondering if the general use of lubricating-oil emulsions for scale control during recent years has not allowed the predictions enemies and parasites of the San Jose scale to become more numerous than was the case than constite scale oprays were used.

130

I. J. Hendenhall (October 1): The San Jose scale in southmestern Thio is hell Suite rell in check, except in the exceptional outpreaks.

Taiana

5. A. Porter (October 22): Sun Jose-scale infe tations this gaugen have been about average in intensity, neither unusually light nor unusually heavy.

Ji sooa sun

I. I. Chambers (September 15-October 1): A survey for the San Jose scale and been made. There were 25 orchards in Racine

County, 75 orchards in the State, and 18 city price found to be infested. apples, plums, ornamentals, and shrubs were attacked.

## JAPANESE BESTLE (Ponillia japonica Tom.)

Jara Jaran

Monthly Latter, Bureau of Entomolo y, To. 161 (16 tember, 1927): Oming to the fact that the activities of the addit Jaronese bentl have consud for the present season, it was possible on October 1 to list the augmentine regulations covering form products. To bootles have been found in the farm prod etc inspected in the lest to rich Sepic ber. Of in to the unantally condiminate, the for booles remaining ut a number of plants within the infested trea have shown a tundency to crimi down into flower flossoms for protection, delilies being levered in this respect. Since a considerable (mantity of out thorses to still beat shipped from the mainted from to satisfie joint, it has been due idered impractiorble to grait the unrestricted poverent of these articles. As A result, the luggeratine rectrictions is a ming inspection and certification of out 170 order brish to a select write October 15, the marinal limit of the start this of him abouts and out flowers. Exec large district of mediate at mial mere received at the laboratory in Contract. On a labor, a consignment of Their trot India, to the literate to the octomer are respect to Thereit a be negleter, that we have could be time which other-Tice mal h to bren constants b trues to be to bointr.

## ICDITURATELY PRUIT TIY (Caratitis craite to Wica.)

Chilippines

Monthly Lutter, our on or Intemplore, Let 1 1 (September, 1927):

1. The dead a than 0. Moran, of the Monthly station, report that records of infestation of insite by the additionnean fruit it; indicate that the fly was less, benefit should to contain an of the arreviews of the arreviews.

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## purity for (caroom and 11

Middle Atlantic States

I. Kos' 1 Catoba : The soul free soul in the common, in one each of the cast of the application of the vertice of the state of the stat

Indian.

D. A. Fortia (Out in 12.): The serso. The profession red in the key of the case in record was. The case the case in record was. The case the case of the relative of the case of the case

September, when conditions were very favorable to the codling moth, and the number of late worms was reduced to a very low point

Tisconsin

E. L. Chambers (September 15-October 1): From 5 to 20 per cent of the apples are infested with the codling moth over the entire Stat

APPLE AND THORN SKELETONIZER (Hemerophila portana Clerck)

Paine

J. R. Phipps (Cctober 6): This is the first report of this insect in Maine although similar injury was noted on Cutts Island last summer. Foliage turned brown in July and August in unsprayed and lightly sprayed orchards.

Wer York

E. P. Felt (October 25): Apple and thorn skeletonizer adults have been flying in numbers the last two weeks in various localities in the central and southern part of the State, areas where there has been considerable foliage injury the past season.

#### APPLE MAGGOT (Rhagoletis pomonella Walsh)

Nost Virginia F. E. Brooks (October 17): I desire to report that for the first time within my memory we are having at French Creek a serious outbreak of the apple maggot. It seems to be confining its attacks, so far as I have observed, to Grimes Golden. Around 75 per cent of the fruits of that variety are infested. Previously I have found the species in West Virginia only at elevations around 3,000 feet above sea level. This occurrence, at about 1,000 feet altitude, is unusual for this region.

li sconsin

E. L. Chambers (September 15-October 1): The railroad worm is very abundant in some LaCrosse and Trempealeau County orchards.

## SCURFY SCALE (Chionaspis furfura Fitch)

Ohio

Chio

E. W. Mendenhall (October 1): I find that apple trees and even apple stock in the nurseries in southwestern Ohio are badly infegted with the scurfy scale, giving a white appearance.

#### PEAR

## PEAR SLUG (Friocampoides limacina Retz.)

E. W. Mendenhall (October 6): I find outbreaks of the pear slugs on pear stock in some of the nurseries in Miami County.

#### FEACH

## PEACH BORER (Acguria oxitiosa Say)

Georgia

O. I. Snapp (October, 20 / More paradichlorobanzene is being used in Georgia this year than for several years. This is largely due to

a greater borer infestation. For several years the Georgia peach growers have not been giving so much attention to this pest as they should, and as a result the infestation has materially increased and much damage has resulted to the trees.

Chio

E. W. Mendenhall (October 3): The work of the peach tree borer is about as severe as usual.

Illinois

w. P. Flint (October 17): Adult peach tree mere without to emerge up to October 5, at Carbondale, in southern Illinois. In some cases peam grovers in this section had applied paradichloroben zene early in September. These treatment would probably not prevent injury by the larvae hatching from the first mergin moths.

## CRIEFTAL FRUIT MOTH (Lespeyresia molesta Busck)

Jeorgia

O. I. Snapp (October 21): This insect has spread to many new localities in Georgia during the 1927 season, although it is still not a pest of major importance in sections where late peaches and apples are not grown. This insect is now in hibernation here.

## SMARTWEED CATERPILLAR (Acronycta oblinita A. & S.)

Illinois

77. P. Flint (October 17): This caterpillar has been found in moderate numbers on the foliage of peach. In some cases as much as 25 per cent of the trees in certain orchards were being bodly defoliated by this pest.

## TARNISHED PLANT BUG (Lyaus pratensis.L.)-

Indiana

.B. A. Porter (October 22): The tarnished plant bug is very abundant on almost all plants. We are particularly interested in this species as a peach pest, and its abundance this fell threatens seritous damage to peaches next spring.

## LOGANDERRY

## RASPBERRY FRUIT WORM (Byturus unicolor Say)

Washington

J. J. Snearer (October 24): On Vashon Island, Fuget Sound, as the growers of loganberries delivered their crops to the canneries, near Tacoma, they were rejected on the grounds that the berries were wormy.

#### FECAN

## PECAN SHUCKNORN (Laspeyresia caryana Fitch)

Mississippi R. W. Harned (October 27): On October 3, inspector R. P. Colmer,

lose Tourt, we nested in more all to the some the follows:
"The conclusion of the more than one to the forest the property of the continuous and the more itself is illustrated. I think the reason for it is that lost our after the storm as any of the growers did not attempt to close an under the trees are the shacks with the larvae in them east not actually and the restormance of the growers did not attempt to close an under the trees are the shacks with the larvae in them east not actually and are appearant as received on Cotob a first Cooling.

#### CITEUS

## RED SPIDER (Tetralvelus telerius I.)

O lifornia

Nontain News Letter, los enceles County Horticultural Commission, Joi. 1. To. lo (October la): Serious "real spider" injury has been noted recently in citrus orchards in eastern Los angeles Bounty according to Deputy Horticultural Commissioner, H. I. Wolff. Generally seeming, as mage has been found to be most severe in orchards which have not been recently irrighted. This the humber of spiders was found to be mertioned to be most severe in orchards which have not been recently irrigated properties, the amount of injury from their attacks was noticeably lets. In many orchards where control measures have not been tabled soon enough, the drynam and proping of foliogs now be an severe.

#### TRUCK-CROF INSECTS

### MIRCELL FOLS A FDERG

## PLACE CULTOR! (agretia preilon hott.)

ississi mi

R. W. Cornec (Cotuber 27): Two rether serious complaints have been received received in regard to the grossy cutvoim. Specimens of this species, identified by 8. E. Crumb of the Bureau of Intemology, were received from Ocean Springs on Coteber 7. The correspondent from Courn Springs in one night. Specimens tentatively identified as this species by 5. M. Longston were received from Grace on Coteber 22. The correspondent at ted that the permanded destroyed about a series of alfalfo out of a 25-acre field.

#### FOTA\_C

## CCLORADO POTATO LEBTLE (Lentinotomen lecomlingate Spy)

Isconsin

E. I. Okon) and (Sentember 15-Vetober 1): The northern counties have been surveyed for the Comorado potato beetle with negative results.

#### TOTATO LEATHOPPER (Frontes inbre Horr.,

"i sconsin

E. L. Chambers (Sentember 15-Cetober 1): The notate leafhopper has infested from 25 to 30 per cent of the notates in northern counties. Dublies are also attacked by it.

### CARBAGE

### CATCART TESTOR: (Fellula undelig Jeb.)

Lississippi

A. W. Harnel (October 27): The imported cabbage rebrond has been very abundant in Elesississi during the past for weeks. Cabbage and turnius are the principal crops that have been injured. Specimens accommoded by statements in regard to scrioudanam that they were clusing have been recently received from Jackson, Nember, Honroe, and Lemmdes Counties.

## CARRIE .FEID (Brevicoryne brassiche I.)

Hisrissima

A. W. Harned (October 10): Aphils were reported on calbage at Hamilton October 10.

### BRISTLE SLUTLES ("DINIGRO)

Corolina

U. H. Broamon (October 1): Blister beutles have been reported to be severely dismigning collares near Turkly, Sampon County.

#### JIRTH RIY

## STRAVIDRI LEA CLEAT (arcylis construction the thin)

n' mala

cere reported injuring the foliage of tramberry plents in southstern Innerster County during the second week in October.

าตราธ

J. W. McColloch (Actober 10): a heavy infortation of this insect is reported from North Topoka.

## . INCA REA BELTIE (Epilronno co moto uls )

Te York

U. F. Howard (Sertember 22): The Mexican bean/has been reported from Stouben Dounty.

att lad

D. I. Corv (Cotober 1): a simple headle incober found by it. Condens in the mention of the process of the months of the contract.

Crolina

o. A. or not contour 1): The cont has crused hemoldon not all over the infested areas of the State this year. It is spreading past rapidly and has been found in Columbus and unthrough Partin and Malifax Counties. (October 20): Mr. W. C.

Horvell of Endell reports . his community attracted by a veritable plague of Penican beat beetle's and that all garder beans have been destroyed there no control was employed.

South Carolina I. F. Formerd (Soutember 20): This insect has been recorted from the following counties: Obstarfield, Marlboro, Durlington, Dillon, Due, States, Darumell, and Orangeburg.

Chio

E. W. Mendenhall (October 12): The Mexican bean teetle has been reported as very injurious in Harrison County during the summer and fall.

Mi caigan

N. F. howard (September 13): The Mexican bean beetle has been reported from the following counties: Cakland, Wayne, and McCount.

#### OUGULBER

### STRIFED CHOUNDER BELIEF (Diabrotica vittata Fab.)

Wi sconsin

E. L. Chambers (September 15-October 1): The striped cucumber beetle has seen observed on curumbers in the scuthwestern part of the State, but no notice ble d mage.

#### SKUASH

## MELON MORNI (Diaphania hyalinata I.)

Liscissippi

M. L. Joe when (O tober 19): This insect was found damaging late squash at Biloxi duping September.

#### OURROI

## PARSLEY STALK WEEVIL (Listronotus latiusculus boh.)

Illinois

W. P. Flint (Cotober 17): The results of a recent survey in the infested territory within a 10-mile redicts of East St. Louis showed over half the carrot patches infected with this corrot weevil, the infestation ranging from 10 to 100 per cent with an average of about 40 per cent.

#### TURLIF

## TURBUF AFHYL (Rhopalosirhum pseudobrassiche Davis)

Mississippi M. L. Cochenham (October 19): Loing considerable damage to turnings and ausgend.

## CAPPOT BESTER (Mirvrus milborus DeC.)

Kansas J. W. McColloch (September 29): Carrot beetles me causing serious injury to turalps at Lakin.

## STRIFED FLE & BESTLE (Fhillotr ta vittota Fab )

Mississippi

K. L. Cockerham (October 19): The striped flea beetle idid. serious damage to turnlps in Piloxi during September and October.

#### STREE FORATO

#### CEMITROPICAL ARIYWORM (Prodenia evidenia Crem.)

Mississippi

A. W. Harned (October 13): Serious injury to one corner of a sweat-pot to field near Vickstars was reported on October 13, by the semitropical armyworm, <u>Xylonygos eridonia</u>.

#### SOUTHERN FIELD-ORCP INSECTS

#### COTTOM

PILK LOLE TORM (Pactirophone cossymicite bound.)

Mexico

M. I Jackson, American Jonsul (Catober 10): Due to the great amount of downg, by the boll revil and min't boll worm, the 1927 cotton crop of the Laguna region, which in June was placed at 90,000 bales, is not estimated at not more than 75,000 bales. A contain amount of domage is always expected in the Jaguna from the bias boll room, but the boll weevil as a rule does but little damage. This year, however, both are exceedingly bad and the dumage being prompted by them will amount to at least 30 per cent of the crop.

## BOLL WORL (Heliothis obsoleta Fab.)

Torth Carolina

C. H. Braumon (October 27): The county meant of Halifax County reports under date of October 21. "In the field where they were found there was an average of at least two bolls per stalk that were ruined, and the bolls that this work ruined were the ones we had saved from the recovil by disting."

Mexico

a. J. Whreill (Cotober 1): Tolko sing a thorough clean-up of infested tild cotton plants in the Yadui Valley as well as the only field of cultivated couton in the valley in 1925, no infestation of the 1927 crop the discovered until late in September in fields cent unfor close sarveillance during the season. To demage possible to the 1927 eron.

## OCT OF IE F WORM (Alphorra almille con Film.)

Indiana

B. a. Portor (Cotober 22): Fruit in this gestion has been more tically uninjured by the moth of this species. One grower reported that only a few moths of the cotton leaf worm were present

situation in 1925, then the moths appeared in September by millions and caused serious damage.

Michigan

E. I. M. Domiel (October 12): The first specimen of <u>Alabema</u> <u>assillated</u> in Michigan, so for as has come to our notice, was discovered yesterday. This creature has not yet appeared in numbers, only a single specimen having been observed at East Last nating.

### FOREST AND SHADE-TREE INSECTS

#### MISCELLATEOUS FEEDERS

#### ..IHTID..E

Montana

J. C. Evenden (Cotober 8): Throughout the city of Libby the elms, imported ashas, and boxelders are being scriously attacked by aphids (species unbrown). This attack is so heavy as to in,—, jure scriously the appearance of the trees and to cause the depth of same few individuals.

#### WHITE-MARKED TUSSOCK MOTH (Menchocompa loucostiema S. & A.)

Nebrasko

II. H. Smenk (September 25-Cotober 25): The white-marked tussock both continued to be conspicuous during the period covered by this report.

## COTTOM/COD DAGRER (seronycta novali Riley)

Webraska

II. H. Swenk (Sebtember 25-October 25): During the latter part of September and the first ten days of October the cottonwood dagger moth, Acttel pourly, appeared in conspicuous numbers on the shade trees of Lincoln.

## PINE IEAF SCALE (Chionuccie ofnifoliae Fitch)

Nebraska

II. H. Unoult (Sentember 25-October 25): Complaints of injury by the pine less scale on space and pine continued to be received during the period here reported.

#### 21 JTT

## MOCHI NOTE ATATA (Frocionius tessellatus Fitch)

New York

I. P. Polt (October 25): Millions of the grain word leaving from adult masses and going down the branches and thee transh and covering the graina for a couple of flot around the basi, in the case of an alder some 30 feet high in Highland Tark. Several oth mean-by alder trees were not infersted (2. I. Horsey).

#### SACINIDAE

## A RLD STILL ( rtetrinyo'ms uniungi's Jic.)

If an chusotts

a. I Fourte (Actobra 1): Leveral hundred arborrates trass conpointain the "Inne" of Court Hill, Lassachurotte dirl Scotte! Action to a, "Ithms, are Heavily Infastra in the spruce mite. This was actormined by Prof. Paris. as P. mietramychus uniunguis Jan.

#### FORELDFR

## PRITUBLE BOW (Jobochie trivitty tos Say)

ALD SES

J. W. Lebellonk (Cotober 20): At this season of the sens the societies on leveroe in many homes over the State.

#### OLIZIPA

## CATA TA FLITTE (Supplement cutoling Loisd )

Ohio

3. To Charachile 1 ober 7): I Mad a satisfication to the catalph social motivity in Maria County. They so an auch later this year.

Illiania

. . . Third (actober 17): If cut does not into he sheer a little to as a macrome to an actual or the last to be truly as a second. They are here to be a considered to a consi

Indiana

6. a. Forter (Cofee of 19): The optolog of the searce this source, and very little following has been observed.

#### 1,711

## FIRST CONTRACTOR (\* Caracillo vi fill des a Cir. ex)

Chio

I. T. Merden's 11 (O to be type like of the loof frontle bun dene conif the way to be the tree of little of the little of maying of the process.

#### E I C

## THE . - FREEDIT Confidence Concerns to the Control of the Control

II. Itana

J. J. Enember (Cottoner by: Turber out the costern cut of the state the complant functions a set of the state the sength of the formular of the control of the cost of the cos

#### JUNI 1.

## THE HELD OF COLUMN CONTRACTOR

Ohic

E ... (Mademinia Juto or Fr.): In turning scale is tell, i - isting jumpours in grown forces in Trov.

#### LOCUST

## FIGURAT CORIT (Onlient robining Forst.)

Mebras a

ii. I Swell (entember 25-October 25): A Chryerne County correspondent reported that the locust boron was present in such abundance in a large grove of black locust trees, not nearly 40 years old, that during the last number 25 car cent of the trees showed infectation, and about 1% of them were illight.

#### UNIT

## SOTION HAFFE 23 LD (Anthumin interpolating Rothy.)

Idaho

J. J. Duendin (Citober 1): During the plat we're the cottony implificate has increased in such numbers is to become a serious pest of the chine brows through that the cuttion of our dividens. Plans for accounting control have been started for the season of 1928.

## ALTIFS THE DIMPLE WORLD ( nigoto m bicumia Teb.)

Nebraska

II. If The she (September 25-Ontober 25): A correspondent from Raga Granty reports early in October that the second brood of the room-attriped sugges from had strimmed the maple trees of his place white class of law so [The Cibat brood had been injurious earlier in the second.

#### PINE

## NOUTERN PINE AFEILE (In amotorus moticoles Honk.)

Idaho

J. C. Dremaer (Cutolor 8): Throughout the pile-pine stands of northern Idago the lorses due to the track of the rountain pine becale increased materially during the 19 6-27 seasons. This condition indicates sairt of another equasine in the mite-line stand of this region. Recent conveys that it saws uplas over 50 per cont of the thirterian and been distinct a the past 10 years. Throughout the Collisis, Chillian, Tolya, Idago, and Espette Patronal Torasts a very severe outbroad of the nourtein pine beatle exists in the lowereds. In a childrenian the rountain the impossible so eron estimate the dama e which has consumed at this time. In is safe to as one that is the nort few years of least 40 per cent of the timber stonis will be right.

Montana

J. C. Evendon (Compher 1): For the most reviewers a serious epidemic of the mountain pine bactle has eristed in the pine stand; (lod scrole pine and relice ring, of the East Fork drainage of the Either Root Eiver. From Jo to 70 per cent of the timber on the careas over thich this epidemic has agreed as been destroyed. In the most year or too this infestation has appead into the Big'Role Basin and the Hissoul, lational Forest.

### JEFFREY-FILT INJILE (Landroctonus jeffreyt Book.)

Oslifornis s.nd Oregon Honthly Letter, Burstu of Ertomology, To. 161 (Ceptember, 1927):

J. M. Miller reports that an infectation of the Jerfrey-pine bootle of several years intending on the Inyo Mational Torest has declined this year. A few years are a lamb windfall commod in this netion, several million free of timber boing bloom down. This infectation developed in the photodows, and attacked from the windfalls one no longer available. Surve a of the collifornia-Oregon control to be true a conducted by F. T. Lambourner the recent summer, the to heaviest losses of the land 10 no ms. In 1927 more than 30,000 feet of timber use lifted. Trivate o mers in this nation are very and disturbed, and it to probable that a great deal or control work will be a full or tering the coming finter and a ring.

## TINE LEAF (CLIT "his our sois rimifolian Fitch)

Chio

L. W. Landerwood (Cotabus 1): The pile lend scale is duite abundant on several of the rise, of the proporties in Troy.

## PITE MARK LOTTE (Underson Day 1 total old Thole).

Oh...c

1. M. sendan M. (October 19): 1. In mit ability are inforting the white pines in Discussition to the or that.

Februs 1

ii. H. Sich I (It wender Aj-Courter 19): In Michardson County on thermontal whithering or 11. If you's wind in a found to be lowerly in ested little that this plant of September.

## : 272 %:

## A TILLIA CREAR (TRANSPORTE CONTRA COMMUNE)

Gall Tormin

3. Fig. (100) and figure a continuous relative to the formula  $\Gamma$  , the figure  $\Gamma$  is the figure at the figure  $\Gamma$  . The figure  $\Gamma$  is the figure  $\Gamma$  and  $\Gamma$  is the figure of the figure  $\Gamma$  .

#### TULIP

## TULIP SCALE (Councyella liriodendi Camel.)

New York

I. P. Felt (October 25): Twigs badly infested with the tuling scale were received the middle of the month from Millbrook, Dutcless County.

## GREENHOUST AND ORNAMENTAL PLANTS

### CHRISATTHERM

CHRYSANTARIUM GALL MIDGE (Lighthronomyin hypognes heer)

Ohio

E. W. Mendenhell (October 12): The chrysantharms midge is doing demage to chrysanthams in a greenhouse in Delaware.

#### IRIS

## IRIS BORER (Ir connectum orusta Grote)

Ti sconsin

I L. Chambers (September 15-October 1): Infestation of iris by the imis borer is very severe in seme and to of the State in marsery plantings, being as high as 30 per cent.

## JAPANISE CEIPEI

## THIR IL.OH SOAL (allers is Tertaron: Torg.)

New York

I. F. Felt (October 25): The West I di n peach scale persists on Japanere therry in the vicinity of New York City to such an extent that park authorities have expedienced difficulty in controlling it by ordinary spray appairations.

#### ILII.O

## LILAC LEAF HIML (tracfleria stringella Fab.)

New York

E. P. Felt (October 1): Tiled leaf miner larvae continue to feed upon the larvae of kilne, ash, and rivet in Rochester, though but fou could be found the last of the month (P.E. Horsey).

## MART CITA

## MACTOTIA SULLI (Motocomia, consultation illico.)

New York

F. P. Felt (Political): The magnetic scale has been extreme we abundant on two large magnetic areas on writing process at Rock opter, the scales being whichly crowled on the under side of the smaller branches, and tree being half doubles. E. horsey).

## A ICHTIDED LATE (LAstrong Loberto Tullian)

Haryland

I. I. Cory (Sentember 5): Shight demane to pentatemon by Endowhenin belease Talker has been reported from Tollege Park.

## FII Inches

## FORT STATE (Cocurs heavender I.)

Chio

T. W. Herde hard (1stoper 3): I rand a so la, Coords hermeridua, a fasting minos minos on plantations many Deptot, lat not doing much umage.

#### The water

## AGRIFORNIA NOTAL NOCAL SONICA (2) Dunca,

Chio

E. . Mademoral (Logo but 27): I find this insect very bad on the leaves of the redbid on Jed o these at Denton. It was done surprise the leaves.

## ITSLOTE ATTABLE : AY AAT

## DOMESTED ALTHUMO

## E1740 (<u>u. 1221) la conc</u>ón tie <u>Uthupperhula fulis</u> Sordie)

Wisconsin

E. Chemistry (D. Burn de journer 1): Himp consist to or cat and dog fiers have consist During the part two weeks, of nuisance in drelling.

Tebrasku

I in the 'i (Souther') projectors (2): Years, into of infestations the Otherse Mr has a subject of the first tendent of Courtment the latter part of Se tember and the first tendent of Cotober.

General statement

3. C. Risko (Catobor): opents of household and frotory Lafort tions of flows of him of the continuous from the month. Then one monthly from bears flyadia, by Louis, Virginia, and Chio. Ore non-recipal from Councitions.

## Five Official (Medianes oncrevings S. & L.)

Torth Carolina C. T. Franco (School 1): This insect stung covered woods in windly so or tem sections of consyte County hear Windom-Scham. An elderly lady was often and the physician who attend i her said that she has rig died as the and a rook lampt. All the yere stung

cultivated severe win a find to consisted on for relief. These externillars were in the part of part and charmer folice and those who sere structures incline fruit. In . 1. W. Pan, county agent, Formyth County, must in speciment and first reserved the activities of the sest.

#### 3.---

## LORE THE (Thempuoble implement)

Tenas

The local (Interval) will in a decided and in the second and as at Source. There we include a control of the second and a decided and the remarkable of the second and the second are second as the second and second and the second are second as the second and second and second as the second and second are second as the second and se

## AT CT T. TE (Bur lens Lingue Davil)

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of different translation is descent development of the country that it is a contract translation of the country translation for the country that it is a country that of the country the interior the country translation of the country translation of the country translation of the country conditions are noted at acides one of the country contract the country translation of the country country cottle shall be an one of the property of the country translation of the deposite of the country translation of th

#### -6.5

## TIGHT 10: TICL (Lg) 4 has 10; The gureau inter?

Formsyl maia

F. G. Bishop (Cuthish Fig. 2n cillum of the brounder tick sent in from Unit but fill that he recent to the first holder and around houses. The first of the recent to the Unit tick in the North as a grain.

### PCULTTY

#### GATILITY TO CO

Maryland and Virginia 3. 3. Bishows (October 29): The normal isliberation in the numbers of chicken the last the place. Someth flows have been observed with moderate to heavy infectations of body lice. Shaft lice appear to be make in number, ith head, fluff, and wing lice comparatively secree.

## FIGEON VIEWORDS VID (<u>Dynamic v. a.a.</u> Diget)

Tashangton, J. C. Busines (Intolur 11): Concruse on the migron hip oboscid to be been been been a facility of District a Columbia.

### instate inclining bousts

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#### and a company

Kansas

T. Levelloui (C siber U): leveltes is no illied sino chemin

## salidate of (including enough to)

Thesiusippi

The first () the experiment of Bottam of the Department of Bottam of the Displication in the Liberth of the Department of the Property of the Control of the

## and the state of t

Mishiori gi

in R. Spin (Act bur 27): The ctr of D. Grev, Witcher, recentle and to the ciffe of the continuous formation of Figure 1. The continuous formation of Figure 2. The continuous formation of the continu

## The all figurities a granting Inter-

Missistimi

The first tender of the source of medical continuous to be the source of medical contribute. The first into food, a published for the first first first first food for the following formula and the first food formula for the food formula formula formula for the first food formula formul

minus of Tozoo City reports that the fire cut was found destroying many of the purch of the cotton leaf worm in the field. Mr. F.K. Harrison of the Bureau of Entemology sent to the office a young citrus troo, the roots and base of and trunk of thich had apparent blen irally yor are of the fire ant. The ante has not con--pletoly sindled the tree but had extending book from the conte and trunks in small priches vaion appeared on the trees as small pits or mech-respect decressions. During the latter art of July, in. J. F. Frie, county agent, Face grain, and to us some organists mind he stated mere boing seriously injured by the fire ant. ... exemination of the plants fored that the units had burn ord longitudinally in the atens of the plants and had also ant in the charge teristic pode-threed holer cut of the beat on the oten and roots of the plants. A r silent of the exemune at A. S. II. College collect our automation to injury to the bode of our in her meden by fire out. This impury conducted of enall to fritly prominent roles granted in the moderat the base. Some of the pois showed email wertlike abnormalities that the property caused by the ants als . The writer with so I time the time of the surfle, and gravity holes into the bas of the class tods. Its into were also reported as feeding on become all water in the house.

# SERON HOTSE AND (Month order rindings to o't.)

North Carolina G. F. Brignon (October 1): This can is purplied by C. C. Dute, county or 1 t, to be infunting deciling in Lumberton.

Chio

L. W. Act (1911 (Coto) - 17): The Market of Market Samuel.

# AT AT (TIMET COUL SEY)

Missis inpi

in a static (Orton off): This area is inforting so many one it is the appearance of Garage that it are along the improprient that come of the learnest matter or and a considered to be effect. In the action the writer or along to be the fall. In the action of the many office, which the order of a class of a control hand of specials, both doubt at alive, noticed the action hand of specials, both doubt at alive, noticed the action of a control of

# COPETED THE ACTION AND AND ARREST

Unliformi (Inyo County) J. T. Dime. (Setabor MT): The many be mustant a transfer of substant. There is no a second the minter.

UNIVERSITY OF FLORIDA 3 1262 09085 3713

they swarm into dwellings, school houses, cometimes completely ecvering the electrical fixtures and other chiects amerended from the collings, also crawled into beds, crawled, etc. In made as here stunged this sesson of the year.

Ul'AZIM ELIM (Losiel, o percione To.)

Illinois

T. P. Flint (Cotober 17): The cimerate of the has been recorded as demaining uphalator of furniture in the hands and in atores. This becoming one of our most commonly remorted household pests.

3 0106

of trouble in a furniture story at Abil m.

The last errord (Sertember 30): It circulates beetle has been r - | cortest recalling unholstered furniture at Shothe.

## POUDER HOST BEETLES (Literage Sen.)

Illi, cla

The first (Catology 17): Reveral claim of injury by the larval of a tile to tellophone dues have been a routed from enat-control like its. This injury is consult by the writing off of the lactory of ineits the last place, and large the site offect as blowing the clast lag.

Tinsus

J. M. Medellona (Cottcher ;): Proce injury, aspecially to 1 th, it recent. I for a large to 2 dent.

## TOUTD-GEARD ITSLUTS

Leorusk.

. I. De la Contono de l'attrono de la Storo Hardin poste les de la la la la la marcha de la Contono de la Contono

## DARK 12.1 'CR' ( 1104 - 01 - 14 Fe .)

CHREVE

T. Mr. Mobilock (Orthography: I for a form the community of an artist of our objects of the community of the

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Corolin

T. A. Her (Subhb r 1-y: Elect mitter recribed through meet r .V = Elic Crall for sale of a total until the tile the t decree to a recribed Tout to the term.