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BUREAU OF
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DEPARTMENT OF AGRICULTURE
AND
THE STATE ENTOMOLOGICAL
AGENCIES COOPERATING

THE MORE IMPORTANT RECORDS FOR OCTOBER

During the month the European earwig was reported as doing some damage in Reno, Nev. This is the first record we have of the occurrence of this insect in that State.

The weevil Eudiagogus rosenschoeldi Fahr. was found feeding on the leaves of a leguminous weed. (Glottidium vesicarius) at Macon, Ga. This is our first food-plant record on this weevil.

Chinch bugs were causing considerable damage to early seeded rye in northwestern Iowa this fall. The number of chinch bugs going into hibernation has decidedly increased during the month, in Illinois, owing to dry, warm weather. The chinch bug situation is more serious than it has been in the last 6 years in eastern Kansas. Serious damage to fall-sown wheat was reported from Oklahoma.

European corn borer severely damaged late sweet corn in Connecticut. High populations of this insect are also reported from southeastern Pennsylvania and north-central and northwestern Ohio. Found in Champaign County, Ill., which is a new county record for the State.

The apple maggot has done more damage in the Hudson Valley of New York State this year than it has in the last few years.

In parts of Virginia, where Comstock's mealybug is prevalent, as high as 50 percent of the eggs of the third brood will apparently not hatch this fall.

Several species of scale insects attacking citrus in Florida increased decidedly during the month.

Cucumber beetle was generally prevalent over much of the country, particularly damaging late squash, cucumbers, and beans, the beetles attacking the fruit.

The corn ear worm was reported from a large part of the South, the principal damage being to corn and tomatoes. In parts of California this insect damaged as high as 40 percent of the tomato fruit.

The tomato pinworm was infesting from 42 to 88 percent of the tomato crop in two counties in California.

The carrot weevil was seriously damaging carrots in Kansas. This appears to be the first report of injury by this insect in that State.

The cotton leaf perforator practically defoliated several areas in the Salt River Valley during the latter part of the summer. This is the earliest and most severe injury ever reported in this area.

Large areas of beech trees are dying in eastern and northern Maine. This is being caused by the beech scale and the necrotic disease which follows infestations of this insect.

A very heavy infestation by a tip moth, Rhyacionia rigidana Fern., on pine occurred in Mathews County, Va.

The red-headed pine sawfly was destructively abundant in Vermont and parts of New York and Virginia.

A heavy infestation of a twig borer, Pityophthorus sp., occurred in the Honey Brook State Forest in New Hampshire. Over 50 percent of the Scotch pine trees were seriously affected.

THE MORE IMPORTANT FEATURES IN CANADA FOR SEPTEMBER

Grasshopper surveys carried out in the three Prairie Provinces indicate that during the 1940 season there was a marked increase in the grasshopper population in Manitoba, particularly in the southern part of the Red River Valley, where the infestation developed to the severe category. A moderate infestation extends over most of south-central Manitoba, north to the Assiniboine and northwestward to about Virden. Southwestern Manitoba and the remainder of the grasshopper area of the Province carry a light infestation, with severe and moderate areas north of Winnipeg. Considering the abundance of grasshopper, damage was very low during the season, owing to rains at critical periods. The grasshopper infestation throughout southern Saskatchewan is much less than had been expected. There are now no severe or very severe areas anywhere in the Province, and the moderate areas are restricted and tend to be light. Over most of southern Saskatchewan the infestation is light; in the north and central areas only a few light infestations are still found. Evidence indicates that there will be an absence of very severe infestations in the Province in 1941. In Alberta considerable migration of grasshoppers from the southeast into better crops areas occurred during August, with rather heavy damage to wheat in some districts and slight damage to late oats and barley. From observations it is anticipated that, in general, the 1941 infestation will be somewhat lighter than that in 1940.

The field cricket was locally reported abundant in Ontario, Manitoba, and Saskatchewan. Field tomatoes, clover, alfalfa, wheat, and flax were among the crops attacked.

Losses in Alberta from the wheat stem sawfly were much greater this year than in 1939. Damage was also heavy in the lighter soil areas of south-central Saskatchewan where summer fallowing has been infrequent.

Small outbreaks of the armyworm occurred in different parts of Nova Scotia, New Brunswick, Manitoba, and Saskatchewan. In Manitoba the infestations were locally severe on oats, corn, and millet.

Moderate infestations of the Mexican bean beetle were found in garden beans in the vicinity of Niagara Falls, Ontario, and specimens were collected in Japanese beetle traps at St. Catharines. However, this species seems incapable of establishing itself as a serious pest in the Province.

The cabbage seed weevil (Ceutorhynchus assimilis Payk.) was destructive to cabbage and Swedish turnip grown for seed in the Victoria district, British Columbia.

The European corn borer was very prevalent in corn-growing regions of Ontario and Quebec and rendered much sweet and canning corn unfit for use. The stalk infestation in field corn in southwestern Ontario was unusually heavy. In addition to corn, other plants were attacked including gladiolus, millet, potato, and hops, but the infestations were not of economic significance.

Reports from Quebec, Ontario, Saskatchewan, and Alberta indicate an increased abundance of the imported cabbage worm over a wide area, with heavy losses of crop where insecticides were not used.

An outbreak of the clover seed chalcid: (Bruchophagus gibbus Boh.) developed at Eriksdale and Winnipeg, Manitoba.

For the first time, an infestation of the Japanese beetle was found in Canada, when 18 female beetles and 14 males were collected in a rose garden in Queen Victoria Park, Ontario.

Increased infestations and damage by the codling moth were reported in the Annapolis Valley in Nova Scotia, the Niagara district in Ontario, and the Okanagan Valley in British Columbia.

Although the infestation of the Pacific mite has spread somewhat in the Oliver district, British Columbia, it has not been found this year in any other fruit-growing area of the Province.

The chain-spotted geometer was very prevalent in western Nova Scotia, where the larvae severely damaged blueberry barrens and also attacked cranberries. A other species, the cranberry fruit worm, was unusually numerous in cranberry bogs in the Annapolis Valley.

A disease observed in previous years has considerably reduced the larval population of the European spruce sawfly throughout much of New Brunswick. This disease was also found to be widespread and causing high mortality on the upper reaches of the Cascapedia in the Gaspé, Quebec, and was observed in the extensive but lightly infested areas in Cumberland and Pictou Counties, Nova Scotia.

GENERAL FEEDERS

GRASSHOPPERS (Acrididae)

- Connecticut. A. De Gáprio (October 23): Melanoplus punctulatus Scudd. almost completely defoliated several small white pine trees at Rainbow.
- Florida. G. B. Merrill and E. W. Berger (October 23): Schistocerca americana Drury moderately abundant on citrus trees at Plant City after owners mowed cover crops between the trees.
- Mississippi. C. Lyle (October 28): Specimens of M. mexicanus Sauss. collected from Bermuda grass and clover in Holmes County.
- E. W. Dunnam, et al. (October 26): Grasshoppers are more numerous than normal in Washington County.
- Missouri. L. Haseman (November 1): M. mexicanus, M. differentialis Thos., and M. femur-rubrum Deg. continued to mate and oviposit throughout October.
- Kansas. H. R. Bryson (October 23): Grasshoppers most abundant in western half of State. Eastern line of area extends to and overlaps the western boundary of the area where the chinch bugs are most plentiful.
- Utah. (October 16): Still abundant in some alfalfa fields in the Brigham-Perry area of Box Elder County. (October 19): Abundant and ovipositing at summit of Cowley Canyon, in Cache County; fewer present at summit of Logan Dry Canyon.
- California. S. Lockwood (October 21): M. mexicanus is the dominant species and the only one of major importance in Imperial County. Egg development within bodies of female M. devastator Scudd. has continued but as yet no oviposition has been found.

EUROPEAN EARWIG (Forficula auricularia L.)

- Nevada. A. E. Michelbacher (October 22): Reported as doing some damage at Reno. Specimens received.

JAPANESE BEETLE (Popillia japonica Newm.)

- Connecticut. J. Peter Johnson (October): Lawn and turf damage in New Haven and Hartford very noticeable in early October.
- Maryland. H. C. Donohoe (October 8): Last spring a grower near Dundalk started several hundred thousand hydrangeas for winter forcing in pots imbedded in a field bed and kept them thoroughly watered during the summer. The beetles were attracted to this moist area and laid eggs to such an extent that severe injury to the hydrangeas from larval feeding occurred. Examination of severely infested 4-inch pots showed a maximum population of 30 grubs per pot. Examination of 95 4-inch pots on September 28 gave an average infestation of 6 grubs per pot, mainly in the third instar.

GREEN JUNE BEETLE (Cotinis nitida L.)

Maryland. E. N. Cory (September 21): Destroyed plantings of spinach and kale at Chaptico, Saint Marys County.

Georgia. T. L. Bissell (October 26): Grubs have heavily infested the edge of a green on a golf course at Griffin, as many as 20 burrows or dirt piles per square foot being present on side where grass clippings were not raked.

WHITE GRUBS (Phyllophaga spp.)

Kansas. H. R. Bryson (October 28): Injurious this fall in lawns and in some plantings of wheat at Manhattan.

WIREWORMS (Elateridae)

Ohio. T. H. Parks (October 28): Limonius agonus Say seriously damaged potatoes in a field in Sandusky County. (Det. by M. C. Lane.)

Mississippi. C. Lyle (October 28): Wireworms were causing injury to about 25 percent of the black locust seedlings in a 12-acre nursery in Yalobusha County. Reported from the southwestern district and as damaging sweet-potatoes in Monroe and Tippah Counties.

Oklahoma. F. A. Fenton (October 28): Reported as doing some damage to wheat.

Arizona. H. G. Johnston (October 23): Approximately 75 percent of the plants in a 20-acre field of lettuce at Phoenix were destroyed during early September. Light infestations in other fields.

A WEEVIL (Eudiagogus rosenschoeldi Fahr.)

Georgia. T. L. Bissell (October 18): Found feeding on leaves of a leguminous weed, Glottidium vesicarium, near railroad tracks at Macon.

FALL ARMYWORM (Laphygna frugiperda A. & S.)

Virginia. H. Walker and L. D. Anderson (October 22): Caused some damage in several spinach and kale fields in the Norfolk area during September and October. Infestation in late corn unusually light. Rather severely injured a field of cabbage in Norfolk County, having eaten into many of the developing heads, making them unfit for market.

Mississippi. C. Lyle (October 28): Specimens received from Clay and Hinds Counties. Reported as injuring late corn in Holmes and Monroe Counties, tunnels being made in large cornstalks in one case.

Texas. R. K. Fletcher (October 14): Present on Bermuda grass in Brazos County.

California. J. Wilcox (October 15): Damaged about 15 percent of a field of sweet corn at Garden Grove, Orange County.

WHITE-LINED SPHINX (Sphinx lineata F.)

Utah. G. F. Knowlton (October 12): Larvae seriously damaged evening primrose in flower gardens at Logan during the season. Moths have been abundant some evenings.

MONARCH BUTTERFLY (Danaus menippe Hbn.)

Missouri. L. Haseman (November 1): During much of October there has been a rather conspicuous movement of the butterflies throughout Central Missouri with larvae and pupae observed during the early part of the month.

SAY'S STINKBUG (Chlorochroa sayi Stal)

Nebraska. H. D. Tate (September 27): Specimens collected from potatoes in Scotts Bluff County.

CEREAL AND FORAGE - CROP INSECTS.

WHEAT

CHINCH BUGS (Blissus leucopterus Say)

Illinois. W. P. Flint (October 22): Late-hatched nymphs have matured during late September and early October owing to dry and very warm weather, causing a decided increase in the number that will overwinter.

Iowa. C. J. Drake (October 24): Caused considerable damage to early seeded rye in northwestern Iowa this fall. Practically destroyed oatfields in a number of counties. Reported as doing some damage to corn in other portions of the State. Many of the first hatch of second generation destroyed owing to weather conditions, but these factors were more favorable for the bugs during the latter part of the hatch. Summer rains provided an abundance of host plants in small-grain stubble fields and the population is much more scattered than it was last year. Bugs are now seeking winter quarters.

Missouri. L. Haseman (November 1): Movement from corn toward winter quarters throughout central Missouri started early in October, but some bugs, still in the last larval stage, were on corn up until the last week in October.

Kansas. H. R. Bryson (September 25): Nymphs of first generation at Manhattan were greatly reduced in numbers by the high temperatures which prevailed about the time the young bugs were migrating from the small grains to the corn and sorghums, causing the second generation at Manhattan and in other localities in northeastern Kansas to be greatly reduced. (October 25): Chinch bug situation more serious than it has been since 1923-24, according to recent surveys, the area involved being about the eastern one-third of the State.

Oklahoma. F. A. Fenton (October 28): Caused severe damage in some wheatfields. Bugs migrating across the field, kill the plants in the same way they destroy corn in the summertime. Large spots in some fields killed similar to damage caused by the green bug.

HESSIAN FLY (Phytophaga destructor Say)

Ohio. T. H. Parks (October 28): Very few eggs deposited during autumn and 1941 wheat crop is free from any serious infestation.

Iowa. H. E. Jaques (October): Present in Buena Vista and Mills Counties.

Missouri. L. Haseman (November 1): Scattered checkups during October showed a considerable sprinkle of the fly, mostly in the flaxseed stage, in volunteer wheat which began developing with the late summer rains throughout west-central Missouri. However, with delayed seeding and delayed germination due to dry weather, infestation of the seeded crop throughout the northern half of the State is light, with the exception of an occasional field mostly in the Missouri River Valley.

Kansas. H. R. Bryson (September 20): Abundant in fields of volunteer wheat in the central part of the State.

Oklahoma. F. A. Fenton (October 28): Reported on wheat at Cleveland.

A SCARABAEID (Cyclocephala borealis Arrow)

Nebraska. H. D. Tate (October 16): Specimens sent in from Saline County on October 9, with report that considerable damage was being done to wheat. Similar report from Jefferson County received a few days earlier.

A FLEA BEETLE (Chaetocnema denticulata Ill.)

Oklahoma. F. A. Fenton (October 28): Caused considerable damage in some wheatfields, killing young plants as it migrates across the fields from grasses where it may have developed.

FALSE WIREWORMS (Eleodes spp.)

Kansas. H. R. Bryson (September 25): Have caused less injury in some sections of the wheat-growing region in western Kansas, owing to the rapid germination of seed because of favorable weather conditions. One report of injury was received from Nashville, in the southern border near center of the State.

CORN

CORN EAR WORM (Heliothis armigera Hbn.)

- Pennsylvania. G. B. Slesman (October): Caused severe damage to sweet corn in Delaware and Montgomery Counties.
- Iowa. H. E. Jaques (October): Reported as light to moderate in a few counties in the State.
- Missouri. L. Haseman (November 1): Corn ear worms continued to feed in central Missouri on late sweet corn throughout October.
- Kansas. H. R. Bryson (October 27): Injury reported as from 20 to 30 percent worse than it was last year.
- Texas. P. T. Riherd (September 21): Heavily infesting sweet corn in bud in Hidalgo County.
- Arizona. H. G. Johnston (October 23): Bud damage to sweet corn is severe in Salt River Valley.
- California. J. Wilcox (October 15): Field of sweet corn was 95-percent infested at Garden Grove, Orange County.

A. E. Michelbacher (October 22): Ears on a late planting of corn at Brentwood were 100-percent infested. At harvest, which started October 15, each ear of corn was infested with 1 to 3 or more worms.

EUROPEAN CORN BORER (Pyrausta nubilalis Hbn.)

- Connecticut. N. Turner (October 25): Damage to late sweet corn at Mount Carmel much more severe than last year.
- Pennsylvania. G. B. Slesman (October): Survey of seven counties made to determine the degree of infestation where two broods are known to occur. Northampton and Lehigh Counties showed a very light infestation, while the more southern counties, viz., Bucks, Berks, Montgomery, Chester, and Delaware, showed a very high degree of infestation.
- Ohio. T. H. Parks (October 28): Cornstalk breakage ranged up to 25 percent in favored locations in north-central and northwestern Ohio counties.
- Illinois. W. P. Flint (October 29): Discovered in Champaign County.

CORN LEAF APHID (Aphis maidis Fitch)

- Nebraska. H. D. Tate (September 23): Stalk of club kafir received from Butler County was heavily infested.

A LEAFHOPPER (Baldulus maidis DeL. and Wolcott)

California. R. E. Campbell (October 11): Numerous on 10 acres of sweet corn in Los Angeles Co., causing stunted growth and lack of commercial crop. Leaves of corn and the ground underneath were covered with honeydew and black with sooty mold fungus. Heavily infested 12 acres of potatoes nearby.

ALFALFA AND CLOVER

ALFALFA WEEVIL (Hypera postica Gyll.)

California. A. E. Michelbacher (October 22): Scarce over most of the infested region of the San Joaquin Valley on October 15. Larval count ranged from 0 to 2 while the adult count ranged from 0 to 37 per 100 sweeps. Extremely scarce on October 9 in region adjacent to the San Francisco Bay. Number of larvae collected per 100 sweeps ranged from 0 to 2 while not a single adult was collected in any fields swept.

PEA APHID (Macrosiphum pisi Kltb.)

Utah. G. F. Knowlton (September 24): Peafields heavily infested at Deweyville and Fielding, Box Elder County. (October 16): Rather abundant generally on succulent alfalfa wherever it has been examined in Box Elder, Davis, Weber, and Salt Lake Counties, all in northern Utah. (October 21): Much more abundant in Cache County alfalfa fields than during hot weather of midsummer and late summer.

THREE-CORNERED ALFALFA HOPPER (Stictocephala festina Say)

Arizona. H. G. Johnston (October 23): Few fields of alfalfa at Phoenix severely injured by nymphs, collapsing the stems of plants just above the surface of the ground.

TARNISHED PLANT BUG (Lygus pratensis oblineatus Say)

Kansas. H. R. Bryson (October 27): Exceptionally abundant on sorghum heads and alfalfa.

ALFALFA CATERPILLAR (Colias eurytheme Bdv.)

California. A. E. Michelbacher (October 22): Larval population small in northwestern portion of the San Joaquin Valley. Largest number collected per 100 sweeps on October 15 in any field was 125, most of them being very small and parasitized by the larval parasite Apanteles flaviconchae Riley. Parasitization exceeded 85 percent in many fields. In the region adjacent to the San Francisco Bay the larval population on October 9 was very small, the most collected in any field being 4. Parasitization was high.

VETCH

VETCH BRUCHID (Bruchus brachialis Fahr.)

South Carolina. F. Sherman and W. C. Nettles (October 26): Considerable infestation noted in Anderson County.

VELVETBEAN

VELVETBEAN CATERPILLAR (Anticarsia gemmatilis Hbn.)

Florida. J. R. Watson (October 22): Adults extremely abundant. Damage not as severe this year as during some other years.

LENTELS AND BROADBEANS

COWPEA APHID (Aphis medicaginis Koch)

Idaho. T. A. Brindley (October 28): Was found on fabas and lentels at Moscow in July of this year. It damaged fields of lentels to an estimated extent of 90 percent during 1939. (Det. by P. W. Mason.)

F R U I T I N S E C T S

SHOT-HOLE BORER (Scolytus rugulosus Ratz.)

Mississippi. C. Lyle (October 28): Peach trees injured in Hinds County.

LEAFHOPPERS (Cicadellidae)

Missouri. L. Haseman (November 1): Various species of leafhoppers have caused considerable annoyance throughout the fore part of October by coming to lights at night and until October 20; one species was extremely abundant in central Missouri on the foliage of elm.

SAN JOSE SCALE (Aspidiotus perniciosus Comst.)

Maryland. E. N. Cory (October 16): Reported from Baltimore.

West Virginia. F. Waldo Craig (October 23): Collected on black chokeberry, Aronia melanocarpa, in a nursery at Charleston. (Det. by H. Morrison.)

Georgia. O. I. Snapp (October 30): Weather conditions favorable for scale reproduction have produced an increased infestation at Fort Valley, in the Georgia peach belt.

Mississippi. C. Lyle (October 28): Infestations reported from Washington County, and from the Grenada, Jackson, and northeastern districts.

WHITE PEACH SCALE (Aulacaspis pentagona Targ.)

Virginia. H. G. Walker and L. D. Anderson (October 22): Reported as attacking peach, privet, candytuft, mulberry, gooseberry, catalpa, scotch broom, and lilac at Norfolk.

Georgia. M. Murphey, Jr. (October 10): Specimens received from Lula, Hall County.

Mississippi. D. W. Grimes (October 28): Privet hedge plants severely damaged in Sunflower County.

APPLE

CODLING MOTH (Carpocapsa pomonella L.)

Ohio. T. H. Parks (October 28): Blemished fruit in commercial apple orchards at harvest time averaged 6.2 percent, the same as in 1938 and higher than in 1939. Most trouble generally occurred in Lawrence County, southern Ohio, and in the Cincinnati area. Serious losses in four orchards along the west end of Lake Erie.

Illinois. W. P. Flint (October 22): Oviposition and hatching occurred throughout most of the month. Heavy overwintered population will occur in most orchards.

Missouri. L. Haseman (November 1): The open fall permitted the late third-brood larvae to continue to feed and develop in apples until the middle of October or a little later throughout central Missouri. There is also an unusually heavy build-up of overwintering worms in most of the orchards of the State.

Missouri and Kansas. H. Baker (October 22): Moths caught in small numbers in bait traps almost daily until operation of traps was discontinued on October 5 in Saint Joseph, Mo. Practically no moths emerged after September 9 and very few after September 1. Very little evidence of new larval activity in northwestern Missouri and northeastern Kansas after middle of September.

APPLE MAGGOT (Rhagoletis pomonella Walsh)

New York. D. W. Hamilton (October 21): Commercial apple orchard injury throughout the Hudson Valley is more frequent than during the last few years, injury occurring late in the season.

Ohio. T. H. Parks (October 28): Infested apples received from Fremont, Sandusky County. No serious damage in northeastern counties where insect is established.

COMSTOCK'S MEALYBUG (Pseudococcus comstocki Kuw.)

Massachusetts. W. B. Becker (September 30): Found on mulberry trees at Holyoke. (Det. by Louise M. Russell.)

Virginia. G. J. Haeussler (October 29): From only a few to nearly 50 percent of the eggs of the third brood have failed to hatch in various Albemarle County apple orchards. Many eggs have remained pale yellow in color and will apparently overwinter. Feeding nymphs of the third generation are now chiefly in the second and third instars. Adult females of this generation first noted on October 10. Observed depositing eggs of the fourth brood since October 18.

Correction: Virginia and West Virginia. On page 445 of the October 1 issue, the seventh line should read "eggs of the third generation began hatching about August 19." instead of "August 1." This correction also applies to the next to the last paragraph on page 433.

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

Ohio. T. H. Parks (October 28): Eggs prevalent on the calyx end of apples harvested in many apple orchards. No serious damage.

PEACH

ORIENTAL FRUIT MOTH (Grapholitha molesta Busck)

Virginia. O. I. Snapp (October 4): Heavy infestation observed today in a late variety of peach in an orchard near Gore, in northern Virginia.

Mississippi. C. Lyle (October 28): Specimens of peach twigs injured by larvae received from Wayne County. Reported as causing injury in Carroll, Claiborne, Grenada, and Hinds Counties, and in the Durant and Jackson districts.

Texas. R. K. Fletcher (September 23, 24): Heavily infesting fruits and twigs of peach in Wichita County.

PEACH BORER (Conopia exitiosa Say)

Georgia. O. I. Snapp (October 30): Unusually dry weather prevented many newly hatched larvae from entering peach trees at Fort Valley, in the Georgia peach belt, which has resulted in a lighter infestation than that of an average year.

Mississippi. C. Lyle (October 28): Infestations reported from Lafayette County and the northeastern district, and from Claiborne, Hinds, Simpson and Yalobusha Counties.

Texas. R. K. Fletcher (October 20): Present in Johnson County.

Nebraska. H. D. Tate (September 26): Reported from Madison County.

PEACH TWIG BORER (Anarsia lineatella Zell.)

Oklahoma. F. A. Fenton (October 28): Reported from Cushing.

PEAR

PEAR PSYLLA (Psylla pyricola Foerst.)

Washington. J. F. Cooper (October 7): Specimens found on pear 3 miles south of Tonasket, and at Loomis, Okanogan County. Also found 4 miles northeast of Entiat and southwest of Peshastin, Blewitt Road, Chelan County. (Det. by P. W. Oman.)

PEAR LEAF BLISTER MITE (Eriophyes pyri Pgst.)

California. S. Lockwood (October 21): More numerous generally in a majority of pear orchards in El Dorado and Placer Counties.

PECAN

WALNUT CATERPILLAR (Datana integerrima G. & R.)

Oklahoma. C. F. Stiles (October 29): Partially defoliated pecan trees throughout south-central portion of State during last few weeks.

HICKORY SHUCK WORM (Laspeyresia caryana Fitch)

Mississippi. G. Lyle (October 28): Heavy infestations reported from Jackson County, and medium damage from the Meridian district.

BLACK PECAN APHID (Melanocallis caryaefoliae Davis)

Mississippi. C. Lyle (October 28): General but light infestations reported from the Meridian district.

CITRUS

SCALE INSECTS (Coccidae)

Florida. J. R. Watson (October 22): Marked increase in Lepidosaphes beckii Newm., Chrysomphalus aonidium L., and C. dictyospermi Morg. during month, owing to dry weather appearing mostly in central Florida. First time latter has been regarded as a serious pest.

H. Spencer (October 24): L. beckii causing some trouble in citrus groves in the Ridge, or central, section of Florida. C. aonidium less troublesome than usual. Few spots of heavy infestation found on lower east coast where defoliation did not occur after the January freeze. Icerya purchasi Mask. is appearing in grapefruit and orange groves along the lower east coast.

Texas. R. K. Fletcher (September 24): Coccus hesperidum L. present on citrus in Hidalgo County. General over lower Rio Grande Valley.

CITRUS WHITEFLIES (Dialeurodes spp.)

Florida. J. R. Watson (October 22): Adults of D. citri Ashm. have largely disappeared. D. citrifolii Morg. are largely on the wing in many parts of the State.

Mississippi. C. Lyle (October 28): D. citri causing injury to hedge plants and other shrubs in the coastal counties and the Meridian district. Dry weather has interfered seriously with the entomogenous fungi.

CITRUS RED MITE (Paratetranychus citri McG.)

Florida. H. Spencer (October 24): Increasing in numbers on the lower east coast, owing to dry weather during last two weeks.

CITRUS RUST MITE (Phyllocoptes oleivorus Ashm.)

Florida. H. Spencer (October 24): Less abundant than usual in the lower east coast, some untreated trees showing no signs of russeting.

AN ORANGE DOG (Papilio cresphontes Cram.)

Florida. J. R. Watson (October 22): Young citrus trees damaged about the same as usual.

T R U C K C R O P I N S E C T S

BLISTER BEETLES (Meloidae)

Ohio. E. W. Mendenhall (October 2): Epicauta pennsylvanica Deg. very troublesome, and destroyed flowers on aster plants at Marion.

Mississippi. C. Lyle (October 28): E. lemniscata F. injuring beans in Pearl River County, ornamentals and vegetables in the Meridian district, and present in the northwestern district. Specimens of E. marginata F. received from Clarke and Perry Counties where they were feeding on flowers and shrubbery. Blister beetles supposed to belong to this species were reported as injuring ornamentals and vegetables in the Meridian district. Blister beetles reported as injuring Irish potatoes in the Durant district.

Iowa. H. E. Jaques (October): Present in Cedar and Pottawattamie Counties.

Texas. R. K. Fletcher (September 26): E. lemniscata present on eggplants and general truck crops in Brazoria County.

CUCUMBER BEETLES (Diabrotica spp.)

Mississippi. C. Lyle and assistants (October 28): Medium infestations of D. vittata F. noted in the Meridian district and in Harrison County where late squash, cucumbers, and beans have been injured. D. duodecimpunctata F. causing injury in the Meridian and Durant districts where string and lima beans were being injured; also, in Harrison County to cucumber and squash. D. balteata Lec. causing injury to late squash plants in Harrison County the latter part of September.

Missouri. L. Haseman (November 1): Both D. duodecimpunctata and D. vittata have continued to feed on blossoms and late cucurbits throughout the month in central Missouri.

Kansas. H. R. Bryson (September 20): Larvae of D. duodecimpunctata were taken in volunteer wheat plants in a field near McFarland. (October 27): D. duodecimpunctata unusually abundant and some damage to chrysanthemum flowers has been done in Manhattan.

Arizona. H. G. Johnston (October 23): Approximately 50 percent of honeydew melon vines in a 40-acre field at Phoenix destroyed by larvae of D. trivittata Mann., attacking roots and underground stems. Damage most severe early in September.

Montana. D. J. Fletsch (October 24): Hundreds of D. vittata found in cantaloups with holes in the skin or rond at Billings. Only three other specimens noted this year.

SIX-SPOTTED LEAFHOPPER (Macrosteles divisis Uhl.)

Montana. H. B. Mills (October 1): About six per head present on head lettuce 35 miles south of Bozeman, Gallatin County. (October 17): Specimens collected at Chinook, Blaine County. (Det. by P. W. Oman.)

TOBACCO BUDWORM (Heliothis virescens F.)

Georgia. T. L. Bissell (October): Caterpillars found feeding on seed pods of Meibomia purpurea at Experiment. First one found on August 14 produced moths September 5. Larvae again found on October 16.

MOLE CRICKETS (Scapteriscus sp.)

Florida. J. R. Watson (October 22): Destroyed practically half the stand of newly set strawberries in some fields of Bradford County. Damage severe to sugarcane and sorghum.

POTATO AND TOMATO

POTATO FLEA BEETLE (Epitrix cucumeris Harr.)

Nebraska. H. D. Tate (September 27): Heavy infestations on potatoes in Scotts Bluff County. Severe tuber injury occurred in some localities.

CORN EAR WORM (Heliothis armigera Hbn.)

- Virginia. H. G. Walker (October 1): Rather seriously injuring a field of cabbage near Norfolk, the larvae boring into the head. (Det. by C. Heinrich.)
- South Carolina. W. M. Upholt (October 25): Activity ceased in the Spartanburg area where a great deal of damage to tomatoes was done early in September. Worms continue active though in somewhat reduced numbers in the Clemson College plantings.
- Mississippi. C. Lyle (October 28): Specimens received during latter part of September from Jackson County where they were causing serious injury to gladiolus flower stalks by making tunnels in them, and from Hinds County where cotton bolls were being injured. Reported as causing damage to late corn in Holmes County and the northwestern district, and to tomatoes in Attala County and the Meridian district.
- Kansas. H. R. Bryson (October 27): Injury to tomato fruits greater this fall than last year.
- Texas. S. E. Jones (October 9): Heavy infestation of tomatoes in Dimmit County.
- California. A. E. Michelbacher (October 22): Has continued to be a serious pest of tomatoes in the northern producing section of the State, some infestations being as high as 40 percent.
- J. Wilcox (October 25): In Orange County tomatoes harvested during August and September at Garden Grove averaged 41-percent damage, and a field at Olive, in which harvest started October 1, averaged 22 percent for the month.

TOMATO PINWORM (Keiferia lycopersicella Busck)

- California. A. E. Michelbacher (October 22): Tomato crop in Madera and Merced Counties severely attacked during last summer. On October 3, the amount of infested fruit in different plantings at Madera ranged from 42 to 88 percent.

TOMATO WORM (Protoparce sexta Johan.)

- Mississippi. L. J. Goodgame (October 28): Heavy infestations observed in Monroe County.

POTATO LEAFHOPPER (Empoasca fabae Harr.)

- Iowa. H. E. Jaques (October): Present in Cedar County.
- Texas. F. L. Thomas (October 23): No visible damage to snap beans at Natalia, Medina County, at which location abundant damage occurred last year.
- Utah. G. F. Knowlton (October 21): Injury to late potato foliage observed in several fields in Davis, Weber, and Cache Counties.

SUCKFLY (Dicyphus minimus Uhl.)

Texas. F. L. Thomas (October 16): Present on tomato at Lavaca.

GARDEN FLEA HOPPER (Halticus citri Ashm.)

Texas. P. T. Rihard (October 7): Present on tomatoes in Hidalgo County.

POTATO PSYLLID (Paratrioza cockerelli Sulc.)

Nebraska. (September 27): Eggs, nymphs, and adults on potato, tomato, and egg-plant in Scotts Bluff County.

Utah. G. F. Knowlton (October 21): No cases of severe damage to potatoes observed during 1940.

BEANS

MEXICAN BEAN BEETLE (Epilachna varivestis Muls.)

Mississippi. C. Lyle (October 28): Specimens received from Chickasaw and Jasper Counties. Reported as severely damaging beans in the Meridian and northeastern districts. Observed in Oktibbeha County.

BEAN LEAF BEETLE (Cerotoma trifurcata Forst.)

Mississippi. D. W. Grimes (October 28): Injured late beans and cowpeas in the Durant district.

BEAN APHID (Aphis runcidis L.)

Utah. G. F. Knowlton (October 21): Damage to canning green beans is very high and less than in 1939.

CABBAGE

CABBAGE LOOPER (Autographa brassicae Riley)

Connecticut. N. Turner (October 25): Unusually abundant on cabbage and cauliflower in the southern part of the State. Severe damage in untreated fields.

Texas. M. J. Janes (September 30): Present on cabbage in Galveston County.

California. J. Wilcox (October 3): Eight specimens observed in a newly set field at Garden Grove, Orange County.

IMPORTED CABBAGE WORM (Pieris rapae L.)

Connecticut. N. Turner (October 25): Unusually abundant on cabbage and cauliflower in the southern part of the State.

Mississippi. C. Lyle (October 28): Reported from Holmes and Pearl River Counties.

SOUTHERN CABBAGE WORM (Pieris protodice Bdv. & Lec.)

South Carolina. W. M. Upholt (October 1): Reported as doing considerable damage in the buds of turnips at Greer. (Det. by C. Heinrich.)

CROSS-STRIPED CABBAGE WORM (Evergestis rimosalis Guen.)

Mississippi. D. W. Grimes (October 28): Specimens taken from collards in Holmes County.

CABBAGE WEBWORM (Hellula undalis F.)

Mississippi. M. L. Grimes (October 28): Moderate infestations observed in the Meridian district on turnips.

HARLEQUIN BUG (Murgantia histrionica Hahn)

Mississippi. C. Lyle (October 28): Specimens received from Yazoo County, where collards and turnips were being injured. Light infestations reported from Attala, Holmes, and Tate Counties, and the Meridian district. Very numerous on collards in the Poplarville district.

SQUASH

SQUASH BUG (Anasa tristis Deg.)

New York. O. Livingston (October 15): Specimens taken at Avoca, Steuben County.

Wisconsin. C. L. Fluke (October 22): Unusually numerous this summer in Kewaunee, Fond du Lac, Juneau, and Dane Counties.

Iowa. H. E. Jaques (October): Light infestation found in Union, Clarke, and Warren Counties, in the southern part of the State, and in Clayton County, in the northeastern part of the State.

Kansas. H. R. Bryson (September 27): Injury to squash at Manhattan confined to fruits, which in many instances, are covered with adults and nymphs.

Utah. G. F. Knowlton (October 21): Reported as injuring squash in Weber and Utah Counties.

Washington. H. P. Lanchester (October 23): Seriously affecting squash plants in the Walla Walla district.

CANTALOUPE

MELONWORM. (Diaphania hyalinata L.)

Arizona. H. G. Johnston (October 23): Foliage and small melons at Yuma seriously damaged. Young larvae fed principally on surface of melon, and when half grown bore into melon. Most abundant during early September.

A MELON BUG (Pycnoderes quadrimaculatus Guer.)

Arizona. H. G. Johnston (October 23): Foliage and terminal buds in a few acres of cantaloup at Yuma severely damaged.

CARROT

CARROT WEEVIL (Listronotus latiusculus Boh.)

Kansas. H. R. Bryson (October 1): Larvae causing injury to carrots grown in Ottawa, tunneling surface of the carrots and rendering many roots unusable. The grower stated he had experienced difficulty in growing carrots in his garden for a period of 10 years. Appears to be first report of injury in Kansas.

CARROT BEETLE (Ligyris gibbosus Deg.)

Nebraska. H. D. Tate (September 22): Specimens received from Fillmore County.

WESTERN BLACK FLEA BEETLE (Phyllotreta pusilla Horn)

Arizona. H. G. Johnston (October 23): Quite abundant and causing rather severe damage to several large carrot fields at Yuma during early September.

SWEETPOTATO

SWEETPOTATO WEEVIL (Cylas formicarius F.)

Mississippi. T. F. McGehee (October 28): Infestation in coastal district lighter than last year.

Texas. P. T. Riherd (September 24): Heavily infesting potatoes in a grocery in Hidalgo County.

SWEETPOTATO FLEA BEETLE (Chaetocnema confinis Crotch)

Mississippi. C. Lyle (October 28): Fairly abundant in fields in Lamar and Pearl River Counties.

SWEETPOTATO HORNWORM (Herse cingulata F.)

Mississippi. C. Lyle (October 28): Adults received from Lee County and a pupa from Wilkinson County.

PEPPER

PEPPER WEEVIL (Anthonomus eugenii Cano)

California. J. C. Elmore (October 22): Caused 60-percent loss to pepper growers of Los Angeles, Orange, and San Diego Counties. Average of about 25-percent loss caused in Ventura County.

BEETS

BEET LEAFHOPPER (Eutettix tenellus Bak.)

Utah. G. F. Knowlton (October 10): Twenty-eight acres of table beets completely destroyed by curly top during 1940 in Weber County.

C O T T O N I N S E C T S

BOLL WEEVIL (Anthonomus grandis Boh.)

Georgia. P. M. Gilmer, et al. (October 5): Fairly well distributed over most fields in Tift, Berrien, Cook, Lowndes, and Echols Counties, in southern Georgia. A few blooms are to be seen indicating very light oviposition, but punctured squares are rather the exception. Numbers of weevils are much less than usual at this time, but the rather widespread distribution may account for the seemingly smaller numbers. Much lighter than normal brood expected to go into winter quarters, but this brood will be well fed and in good condition.

Florida. C. S. Rude (October 19): Weevils less numerous than they were a year ago.

Mississippi. C. Lyle (October 28): Destroyed practically all late squares on cotton plants. Adults as numerous as last year at this time in all parts of the State except the Delta, with very few reported from the extreme northern part.

E. W. Dunnam, et al. (October 19): Population in Washington County is light. Weevils to go into hibernation are far below normal. (October 26): No more than 10 percent of a normal population expected to go into hibernation.

Louisiana. R. C. Gaines, et al. (October 12): Number taken on field flight screens in Madison Parish for the week ended October 11, 1940, totaled 10, as compared with 36 in 1939, and 21 in 1938. (October 26): Number taken on field flight screens in Madison Parish for week ended October 25, totaled 65, as compared with 18 in 1939, and 19 in 1938.

Oklahoma. C. F. Stiles (October 29): Generally distributed over State. Damage light except in extreme southeastern portion of State where damage was less than usual.

PINK BOLLWORM (Pectinophora gossypiella Saund.)

Texas. L. W. Noble (October 19): Green boll infestation counts made during first part of the week in the area above the mouth of the Conchos River, Presidio County, were comparable to records made last year. In 7 identical fields the average infestation for 1940 was 40 percent, ranging from 3. to 90 percent, bolls per plant averaging 1.34, and ranging from 0.5 to 5.2, and larvae per acre averaging 15,086, ranging from 106 to 50,436, as compared with average infestation of 71 percent in 1939, ranging from 38 to 100 percent, average bolls per plant 1.57, ranging from 0.3 to 5.1,

and larvae per acre averaged 29,363, ranging from 5,119 to 65,250. In 11 fields in the vicinity of Presidio during the week ended October 19, 1940, bolls infested averaged 67 percent, ranging from 2 to 100 percent, bolls per plant averaged 1.07, ranging from 0.3 to 2.2, and larvae per acre averaged 38,538, ranging from 546 to 126,825.

Egypt. A. H. Rosenfeld (August 5): Pink bollworm, together with spiny bollworm, Earias insulana Boisd., was responsible for an infestation of about 3 percent in the cotton varieties Sakel (long-staple), Giza 7 (medium), and Ashmouni and Zagora (uppers), and about 5 percent in the other long-staple Maarad, as against some 2 percent for all these varieties during the corresponding period last year.

COTTON LEAFWORM (Alabama argillacea Hbn.)

South Carolina. F. Sherman and W. C. Nettles (October 26): Small localized late outbreak occurred in southern section.

Georgia. P. M. Gilmer, et al. (October 5): Complete stripping occurred in most untreated sea-island fields in Tift, Lowndes, Echols, Cook, and Berrien Counties. Upland cotton seems to have suffered much less from leafworm than sea-island.

Mississippi. E. W. Dunnam, et al. (October 17): One larva, about half grown, found in the genetics garden in Washington County. (October 22): One moth found in Leland, Washington County.

Louisiana. R. C. Gaines, et al. (October 5): A few fields in Madison Parish were defoliated in the last 2 weeks.

Missouri. L. Haseman (November 1): During October in central Missouri there was a rather light flight of this moth where it was observed feeding on apple mummies and decaying fruit.

Oklahoma. C. F. Stiles (October 29): Caused very little damage in the State.

Texas. L. W. Noble (October 5): New generation of moths emerging in Presidio County. Little damage expected.

COTTON LEAF PERFORATOR (Bucculatrix thurberiella Busck)

Arizona. H. G. Johnston (October 23): Many cotton fields practically defoliated in several areas of the Salt River Valley during late August and early September. Earliest and most severe injury ever recorded in this area.

EGYPTIAN COTTON WORM (Prodenia litura F.)

Egypt. A. H. Rosenfeld (June 29): Spreading progressively everywhere during first half of month. Egg masses abundant after irrigation and in heavily manured fields. Hand picking of eggs carried out vigorously and hatching took place only in very limited areas. No damage to crop. (July 17): Percentage of infestation much higher than at this time last year. Hand-picking of egg masses was diligently carried on, but owing to exceptional

number and distribution, hatching took place on a few thousand scattered acres, mostly in the northern provinces, although there was some hatching also, in the southern Delta and Middle Egypt.

F O R E S T A N D S H A D E - T R E E I N S E C T S

BAGWORM (Thyridopteryx ephemeraeformis Haw.)

Virginia. L. A. Hetrick (October 15): A number of adult males were attracted to caged bagworm cocoons at West Point.

Maryland. E. N. Cory (October 28): Present on evergreens at Prince Frederick and at Bennings.

Mississippi. C. Lyle (October 28): Specimens received from Prentiss County, where they were feeding on juniper. Reports of injury received from Lee and Union Counties and from the northwestern district.

Kansas. H. R. Bryson (September 24): Reported as abundant on cedars in one locality near Erie.

Texas. R. K. Fletcher (October 10): Present on cedar in Harris County.

FALL WEBWORM (Hyphantria cunea Drury)

Mississippi. C. Lyle (October 28): Reported as injuring willows in Bolivar County, and pecan in Lee County. Injury very noticeable in northern half of State, and in some cases pecan and persimmon trees have been practically defoliated.

Arkansas. W. J. Baerg (October 25): Exceedingly numerous in central and southern parts of the State, and comparatively thin in northern counties.

Nebraska. H. D. Tate (September 17): Reported from Douglas County.

TWIG GIRDLER (Oncideres cingulatus Say)

Virginia. H. G. Walker and L. D. Anderson (October 28): Moderately abundant on hickory and pecan at Norfolk.

WALKINGSTICKS (Phasmidae)

Missouri. I. Haseman (November 1): With severe killing frosts delayed, walkingsticks were feeding and ovipositing in central Missouri until the middle of October.

BEECH

BEECH BLIGHT APHID (Prociphilus imbricator Fitch)

Virginia. H. E. Clark (September 8): Specimens collected on beech at Woodford. (Det. by P. W. Mason.)

BLACKBERRY PSYLLID (Trioza tripunctata Fahr.)

Virginia. H. E. Clark (September 8): Specimens collected on beech at Woodford. (Det. by P. W. Oman.)

BEECH SCALE (Cryptococcus fagi Baer.)

Maine. H. B. Peirson (October 15): Spreading rapidly throughout eastern and northern Maine, and large areas of beech died this year. This was followed by a nectria disease and trees in some sections look as if coated with snow.

BIRCH

A CASE BEARER (Coleophora salmani Heinr.)

Maine. H. B. Peirson (October 10): Almost completely defoliated birch stands in Winter Harbor, Addison, and Jonesboro this fall. Insects now in overwintering cases.

A PLANTBUG (Ischnorhynchus resedae Panz.)

Massachusetts. E. P. Felt (October 23): Specimen received from Hopkinton. Very abundant on birch. Presumably feed upon the catkins and usually abundant in moist, wet places.

New York. E. P. Felt (October 23): Specimens received from New York Botanical Garden, New York City.

BOXELDER

BOXELDER BUG (Leptocoris trivittatus Say)

Pennsylvania. E. J. Udine (October 23): Abundant in some sections of Carlisle

Wisconsin. C. L. Fluke (October 22): Not as numerous as in past years. Reported from Washington and Adams Counties.

Iowa. C. J. Drake (October 24): Very abundant this fall, with What Cheer, Greene, Des Moines, Aplington, Emmetsburg, and Ames representing heavy centers of infestation.

H. E. Jaques (October): Light to moderate infestations in various counties in the eastern part of the State and in Union County, in the western part of the State.

Missouri. L. Haseman (November 1): Seemingly due to the open fall, fewer complaints than usual of this bug coming into houses have been received.

Nebraska. H. D. Tate (October 15): Reported as annoying around houses and other buildings from Merrick, Gage, Cass, Burt, and Lancaster Counties during the period from September 16 to October 15.

Kansas. H. R. Bryson (October 27): Hibernating bugs more abundant than last year.

Utah. G. F. Knowlton (October 14): Extremely annoying in classrooms and offices of school buildings at Logan. (October 21): Reported as annoying in homes and school buildings during last 10 days.

CATALPA

CATALPA SPHINX (Ceratonia catalpae Bdv.)

Ohio. E. W. Mendenhall (October 2): Leaves stripped on catalpa trees in Marion and Hardin Counties by second brood.

ELM

EUROPEAN ELM SCALE (Gossyparia spuria Mod.)

Nebraska. H. D. Tate (October 5): Reported from Hall County.

Utah. G. F. Knowlton (October 21): Damaged a number of elm trees at Brigham, Logan, and Ogden this season.

ELM SCURFY SCALE (Chionaspis americana Johns.)

Oklahoma. F. A. Fenton (October 28): Reported on elm at Muskogee.

FIR

A BARK APHID (Dreyfusia piceae Ratz.)

Maine. H. B. Peirson (October 10): Causing death of large number of balsam fir trees in Washington and Hancock Counties.

HACKBERRY

HACKBERRY NIPPLE GALL (Pachypsylla celtidis-mamma Riley)

New Jersey. E. P. Felt (October 23): Reported as considerably abundant on hackberry in the Orange area.

HEMLOCK

A LOOPER (Ellopiia athasaria Walk.)

Connecticut. R. B. Friend (October 18): Five-acre hemlock stand at Woodridge heavily infested, defoliation being most severe in upper parts of crowns of trees 30 to 50 feet high. Heavily defoliated area less extensive in somewhat larger stand in Branford.

LARCH

LARCH CASEBEARER (Coleophora laricella Hbn.)

Vermont. L. D. Casey (September 27): Heavy infestation observed near Cabot, in northeastern Vermont. Most foliage badly discolored from the feeding.

PALES WEEVIL (Hylobius pales Hbst.)

New Hampshire. J. V. Schaffner, Jr. (October 1): Twigs seriously injured by feeding of adult, received from Hillsboro, from a plantation set out on recent cut-over pine land. Larch planted in old fields not damaged.

LINDEN

NORWAY MAPLE APHID (Periphyllus lyropictus Kess.)

Ohio. E. W. Mendenhall (October 21): Found to be serious on European linden in Ashtabula, the leaves being covered with honeydew.

AN APHID (Myzocallis tiliae L.)

Utah. G. F. Knowlton (October 21): Moderately severe infestations observed at Logan and Brigham.

LOCUST

LOCUST TWIG BORER (Ecdytolopa insiticiana Zell.)

Mississippi. C. Lyle (October 28): Small black locust trees, apparently injured by the locust twig borer, were received from Yalobusha County early in the month.

MAPLE

A GEOMETRID (Ennomos subsignarius Hbn.)

Massachusetts. S. W. Bromley (October 16): Caterpillars defoliating red maple in a swamp at Wenham. (Det. by H. W. Capps.)

OAK

RED-HUMPED OAK CATERPILLAR (Symmerista albifrons A. & S.)

Connecticut. A. De Caprio (October 11): White oaks on 2 acres at Bloomfield almost completely defoliated. Red and black oaks lightly infested.

E. P. Felt (October 23): Somewhat abundant on oak at Simsbury.

A RIBBED COCOON MAKER (Bucculatrix ainsliella Murt.)

Vermont. J. Pruett (September 23-27): Several thousand acres of oak trees affected in the towns of Brandon, Salisbury, Middlebury, and Leicester, located on the slope of the Green Mountain range. (Det. by C. Heinrich.)

TWO-LINED CHESTNUT BORER (Agrilus bilineatus Web.)

Pennsylvania. T. J. Parr (October 23): Dying oaks along Licking Creek Drive in State forest property east of Mount Union attacked, following abnormal dry conditions a few years ago.

PUBESCENT OAK KERMES (Kermes pubescens Bogue)

Iowa. C. J. Drake (October 24): Abundant and doing considerable damage to oak trees in Des Moines.

AN OAK GALL (Andricus excavatus Ashm.)

Missouri. E. P. Felt (October 23): Specimen on Ozark black oak or blackjack received from Steelville.

OAK ROSETTE GALL (Cynips frondosa Bass.)

Massachusetts. E. P. Felt (October 23): Found to be extremely abundant on sweet white oak at Easton, a large tree with a trunk diameter of 30 inches having 90 percent of the branches literally covered by the galls.

PINE

A TIP MOTH (Rhyacionia rigidana Fern.)

Virginia. L. A. Hetrick (September 15): Heavily infesting the terminal and lateral shoots of old-field stands of loblolly pines in Mathews County. Infested pines are growing in closed stands and are probably from 20 to 25 years old. Average height of trees about 30 feet. (Tentatively determined from larvae by C. Heinrich.)

INTRODUCED PINE SAWFLY (Diprion simile Htg.)

Maine. H. B. Pearson (September 23): Full-grown larvae defoliating white pine at Bar Harbor. Some larvae have spun cocoons.

RED-HEADED PINE SAWFLY (Neodiprion lecontei Fitch)

Vermont. P. B. Dowden (October 24): Heavy infestation observed in a 20-acre red pine plantation in the town of Peru, the trees being from 8 to 10 feet high. About 20 percent of the trees were infested and 10 percent were heavily fed upon.

New York. R. C. Brown (October 23): Severe attack on a 20-acre plantation of red pine on Bay Pond Road, near the town of Paul Smiths, resulted in its virtual destruction during the last season. Trees in stand are from 8 to 10 feet high, and approximately 75 percent are dead or dying.

Virginia. L. A. Hetrick (October 15): Groups of second-generation larvae commonly observed on young loblolly pines in New Kent, King William, and King and Queen Counties.

A SAWFLY (Neodiprion americanum Leach)

Virginia. L. A. Hetrick (October 14): First emergence noted in infested areas in King and Queen and King William Counties. Oviposition in needles of Pinus taeda noted same day. Heavy emergence of adults did not occur until October 23 and 24 owing to weather conditions.

A WEEVIL (Cossonus corticola Say)

Florida. J. R. Watson (October 22): Injuring pines in Polk County.

A TWIG BORER (Pityophthorus sp.)

New Hampshire. J. V. Schaffner, Jr. (October 19): Heavy infestation found in Scotch pine on Honey Brook State Forest at Acworth, in southwestern New Hampshire. Over 50 percent of the 20- to 22-year-old trees on an 8-acre plantation are seriously affected. Most twigs on some trees observed to be brown on August 23. (Det. by M. W. Blackman.)

WHITE PINE CONE BEETLE (Conophthorus coniperda Schwarz)

New York. E. P. Felt (October 23): Specimen sent in from Southampton, Long Island, and associated with somewhat severe injury to hard pine tips.

PINE BARK APHID (Pineus strobi Htg.)

Maryland. E. N. Cory (October 21): Present on white pine in Bethesda.

A PINE SCALE (Matsucoccus gallicolus Morrison)

Pennsylvania. T. J. Parr (October 23): Injury to pitch and short-leaf pine plots at Mont Alto and Mount Union in general increased slightly over what it was in 1939.

POPLAR

A PYRALID (Euzophera ostricolorella Hulst)

Maryland. E. N. Cory (October 21): Present on tulip trees at Bowie.

COTTONWOOD BORER (Plectrodera scalator F.)

Utah. G. F. Knowlton (October 21): Injured poplars in several northern localities.

GALL APHIDS (Pemphigus spp.)

Utah. G. F. Knowlton (September 26): Pemphigus populicaulis Fitch and P. populitransversus Riley have been causing moderately severe damage to Bolleana poplar, many leaves having fallen prematurely on some trees at Trenton, Clinton, Bountiful, and Centerville.

A RIBBED PETIOLE GALL (Ectopiedemia populella Busck)

Ohio. E. W. Mendenhall (October 18): Rather numerous on aspen trees at Ashtabula.

FEDBUD

LEAFHOPPERS (Cicadellidae)

Kansas. (September 25): Unusually abundant. Injury is severe enough on some leaves to give the tree a brownish appearance.

SPRUCE

EUROPEAN SPRUCE SAWFLY (Gilpinia polytoma Htg.)

Maine. H. B. Peirson (October 10): Reported as very serious in all of the spruce regions in the State. Increase over last year in many sections, and in others there has been a decrease, owing in part to a large hold-over of cocoons in the ground.

BLACK-HEADED BUDWORM (Peronea variana Fern.)

Maine. H. B. Peirson (September 26): Light infestation noted on spruce at Winter Harbor.

FIR SAWFLY (Neodiprion abietis Harr.)

Maine. H. B. Peirson (September 2): Full-grown larvae attacking balsam fir and blue spruce at South Portland. Many cocoons on trees.

SYCAMORE

PIGEON TREMEX (Tremex columba L.)

Nebraska. H. D. Tate (October 5): Infested sample of wood from a sycamore tree sent in from Merrick County.

TUPELO

SOURGUM CASE CUTTER (Antispila nyssaefoliella Clem.)

New Jersey. C. W. Collins and R. R. Whitten (September 27): Observed mining leaves of Nyssa sylvatica rather abundantly in Ocean County.

WALNUT

WALNUT HUSK FLY (Rhagoletis completa Cress.)

Missouri. L. Haseman (November 1): Has been unusually abundant in walnut husks throughout October, with a number of adults emerging in the laboratory around the middle of the month.

INSECTS AFFECTING GREENHOUSE
AND ORNAMENTAL PLANTS

MEALYBUGS AND SCALE INSECTS (Coccidae)

New York. W. G. Bodenstern (October 1): Specimen of a mealybug, Rhizoecus falcifer Kunck., received from Cornell University. Reported as causing considerable injury in the conservatory, the principal host plants being the palms, Howea forsteriana and Howea belmoreana, and the croton, Codiaeum variegatum. (Det. by Louise M. Russell.)

South Carolina. F. Sherman and W. C. Nettles (October 26): Several specimens of Icerya purchasi Mask. received from eastern South Carolina.

Florida. J. R. Watson (October 22): Snow scale has been particularly abundant on mulberries, persimmons, and hibiscus; sent in from Orlando on African violets.

Mississippi. C. Lyle (October 28): Damage by I. purchasi reported as increasing along the Gulf coast due to the scarcity of Vedalia beetles.

Arizona. C. D. Lebert (October 14): Phenacoccus gossypii Towns. & Ckll. collected on poinsettia and coleus plants and Pseudococcus citri Risso on geranium in greenhouses at Prescott and Phoenix. (Det. by Louise M. Russell.)

California. E. O. Essig (October 3): Saissetia hemisphaerica Targ. found on Eugenia myrtifolia at Berkeley. Reporter noticed this insect for the first time in this region out of doors. Common on greenhouse ferns.

AZALEA

AZALEA LACEBUG (Stephanitis pyrioides Scott)

New York. M. D. Leonard (September 25): Badly infested azalea leaves submitted from East Elmhurst, Long Island. One dozen large plants reported as equally infested, and same plants were moderately infested last season. (Det. by H. G. Barber.)

Mississippi. C. Lyle (October 28): Specimens of insect and injured leaves received from Jones and Lauderdale Counties. General and heavy infestations reported from Meridian district.

AZALEA SCALE (Eriococcus azaleae Const.)

Mississippi. C. Lyle (October 28): Infested plants observed in Grenada, Lincoln, Pike, and Walthall Counties, and in the Meridian district.

A SCALE (Pseudaonidia paeoniae Ckll.)

Mississippi. C. Lyle (October 28): Specimens taken from azalea in Hancock County.

CAMPHOR

CAMPHOR THRIPS (Liothrips floridensis Watson)

Mississippi. T. F. McGehee (October 28): Causing injury to young growth in the coast counties.

CHRYSANTHEMUM

MEALYBUGS (Pseudococcus spp.)

Maryland. E. N. Cory (September 30): Present on chrysanthemum at Linthicum.

Mississippi. C. Lyle (October 28): Undetermined species reported as numerous in greenhouses in Jackson County. Less numerous in Meridian district.

Nebraska. H. D. Tate (September 28): P. citri Risso found infesting chrysanthemum plants in Chase County.

DAYLILY

A NOCTUID (Xanthopastis timais Cran.)

Kentucky. Mrs. M. R. Jacobs (October 2): Specimens taken from bulbs of Hemerocallis occidentalis at South Carrollton. (Det. by C. Heinrich.)

EUONYMUS

EUONYMUS SCALE (Chionaspis euonymi Comst.)

Maryland. E. N. Cory (October 15): Present on euonymus at Hagerstown.

Mississippi. C. Lyle (October 28): Injury to euonymus plants reported from the Meridian district and from Yazoo County.

Texas. R. K. Fletcher (October 1): Euonymus leaves infested with a scale were received. Reported from the entire eastern half of the State, some of the infestations being very heavy. (Det. by Louise M. Russell.)

GLADIOLUS

GLADIOLUS THRIPS (Taeniothrips simplex Morison)

Georgia. T. L. Bissell (October 26): Caused considerable damage this year at Griffin.

JUNIPER AND CEDAR

A TWIG BORER (Phloeosinus cristatus Lec.)

Nebraska. H. D. Tate (October 16): Infested cedar twigs sent in from Douglas County on September 17, with report that trees were being severely damaged. Similar damage to cedar trees reported in the same county on September 23, and from Franklin County on September 19.

JUNIPER WEBWORM (Dichomerus marginellus F.)

Maryland. E. N. Cory (October 1): Present on juniper at Frederick.

JUNIPER SCALE (Diaspis carueli Targ.)

Maryland. E. N. Cory (October 15): Present on juniper at Baltimore.

NARCISSUS

NARCISSUS BULB FLY (Merodon equestris F.)

Utah. G. F. Knowlton (October 14): Narcissus bulbs 70 percent infested in a garden at Logan.

Washington and Oregon. C. F. Doucette (October 16): Heaviest infestation since the initiation in 1934 of an annual infestation survey. Survey covered 35 planting stocks in the principal narcissus-producing areas of Oregon and Washington. Heaviest infestation observed was 24.2 percent. Average infestation of plantings in Washington was 4.89 percent, and in Oregon 7.71 percent. The weighted average for the combined area was 5.88 percent. Highest general average previously recorded was 4.33 percent in 1936.

ORCHID

ORCHID WEEVIL (Diorymerellus laevimargo Champ.)

California. E. O. Essig (October 8): Adults considerably injuring orchid flowers in greenhouse at Berkeley.

PRIVET

LILAC BORER (Podosesia syringae Harr.)

District of Columbia. H. V. Wester (October 9): Larvae boring in stems of privet hedge in Rock Creek Park, Washington.

VIRGINIA CREEPER

ACHEMON SPHINX (Pholus achemon Drury)

Massachusetts. E. P. Felt (October 23): Reported as abundant on Virginia creeper at Stockbridge.

INSECTS ATTACKING MAN AND
DOMESTIC ANIMALS

MAN

MOSQUITOES (Culicinae)

South Carolina. S. Crosswait (September 4): Number of Aedes bimaculatus Coq. collected in heavily wooded section of Charleston County, about 4 miles from the city of Charleston, and near an area which is quite marshy and floods during wet seasons. Six specimens were collected along with large numbers of A. tormentor D. and K. and A. infirmatus D. and K., as well as Psorophora ciliata F. Reported by King and Bradley as being collected very seldom and as never having been recorded in South Carolina.

Florida. G. H. Bradley and B. V. Travis (October 24): A. sollicitans Walk. and A. taeniorhynchus Wied., have decreased in abundance in the eastern part of Volusia County since the end of September. Very little annoyance during October.

G. H. Bradley (September 30): Mosquito infestation greater this quarter (July 1 to September 30) in Volusia County than last (April 1 to June 30) but considerably below the same period in 1939. Average daily densities of the three principal pest species, A. taeniorhynchus, A. sollicitans, and P. columbiae D. and K., as measured by laboratory light trap, were 53.8 for July, 103.1 for August, and 72.3 for September, as compared with the following respective 1939 averages: 312.4, 242.3, and 219.1.

Louisiana. S. W. Simmons (October 14): About 30 specimens per person along highway east of Slidell. Native reported that 5 major flights had occurred this season.

Texas. W. G. Bruce (October 31): Not especially numerous or annoying during month at Dallas.

Iowa. C. J. Drake (October 24): Anopheles punctipennis Say moderate to very abundant throughout the State, and A. quadrimaculatus Say light to moderate in scattered sections throughout the State. A. walkeri Theob. present in Cerro Gordo, Hamilton, Dubuque, Dickinson, Monona, Poweshiek, Muscatine, and Louisa Counties. A. maculipennis Meig. present in Osceola, Allamakee, Butler, and Sac Counties in the northern part of the State, and in Polk, Scott, and Louisa Counties in the southern part of the State.

Kansas. H. R. Bryson (September 25): More abundant at Manhattan than last fall.

Alaska. A. Brugger (September 17): Mosquitoes have disappeared completely at Kodiak.

A SANDFLY (Culicoides melleus Coq.)

Florida. G. H. Bradley and B. V. Travis (October 24): Very abundant and troublesome at New Smyrna Beach and Coronado Beach during the middle of October, reaching a maximum on the night of October 21.

A GNAT (Chaoborus astictopus D. and K.)

California. H. H. Stage (September 30): Emergence at Clear Lake 25 percent greater than last year, occurring every day from May 1 to September 30. Over 3 times as many larvae were taken in lake-bottom samples during the period June 10 to September 10 as during the same period last year, owing to favorable weather conditions in May and June, and oviposition was frequent and heavy.

AMERICAN DOG TICK (Dermacentor variabilis Say)

Massachusetts. C. N. Smith (September 30): All stages active in July at Vineyard Haven. Declined in abundance during August and had largely ceased activity by the end of September.

BROWN DOG TICK (Rhipicephalus sanguineus Latr.)

Wisconsin. F. C. Bishopp (October): Several specimens were taken in residence in Fond du Lac and Milwaukee. These constitute our first record from Wisconsin.

Missouri. F. C. Bishopp (October): Specimens were submitted from two infestations in St. Louis.

Texas. F. C. Bishopp (October 21): Reported as less abundant than usual, although it is troublesome in and around Dallas. Not so numerous on dogs and in homes in the Oak Cliff area as in north and east Dallas.

PUSS CATERPILLAR (Megalopyge opercularis A. & S.)

Maryland. E. N. Cory (October 7): Present in Hagerstown.

Florida. J. R. Watson (October 22): Reported annoying to persons coming in contact with it.

Alabama. J. M. Robinson (October 7): Present at Monroeville.

Mississippi. C. Lyle (October 28): One specimen received from Stone County.

CATTLE

SCREWORM (Cochliomyia americana C. & P.)

Florida. W. E. Dove (October 20): Few cases as far west as Gadsden County during the summer; about 100 cases in Union County, 4 or 5 in Hamilton County, about 200 in Charlotte County, and very few cases in Polk County during September. (October 30): Incidence for September was reported as being lower than for similar months of previous years. Most important

in the western half of the peninsular portion of Florida between Sumter and Lee Counties, where 200 to 250 cases were estimated in many counties. About 250 cases reported in a small area in Saint Johns and Bradford Counties. Few cases also reported from Dade, Broward, Palm Beach, Lake, Nassau, Hamilton, Madison, Taylor, Gadsden, and Escambia Counties. Negative reports received from most of the counties of western Florida.

Texas. E. C. Cushing (October 7): Numerous infestations reported by ranchmen in Menard and vicinity during September. Rapid decline in abundance of flies and incidence infestation owing to cool weather during first week in October. Same situation has prevailed generally over the Edwards Plateau section.

F. C. Bishopp (October 18): Some trouble reported in the vicinity of Telegraph, although cases are not so numerous as a few weeks ago.

H. H. Stage (September 30): Status trap at Uvalde took 666 screwworms during the quarter (July 1 to September 30), the peak catch of 188 being taken during period ended September 30. Peak and total catch taken in this trap were highest in 5 years for the same period. The total catch in the Camp Wood status trap for the quarter was exactly the same as for the Uvalde trap, and the peak was in the period ended September 30. More specimens were taken in 1937 and 1938 than this year. All other traps operated through the quarter took far more than either of the status traps.

California. E. C. Cushing and W. L. Barrett (September 18-30): The screwworm appeared about July 1 in Tehama and Shasta Counties, causing a rather high incidence in sheep, cattle, and pigs. Cases not so severe as normally encountered in Texas. One female reported in a fly trap in a laboratory located considerably west of the Sacramento Valley. Appears to be first record in that section.

J. Wilcox (October 14): Reported that every cow in a dairy at Anaheim, Orange County, which came fresh this summer was attacked, and that every calf was attacked one or more times in the navel. Bag boils on milk cows were also attacked, as well as brands. Two castrated pigs were infested three times.

A. W. Lindquist (September 30): Great deal more numerous this year at Clear Lake. Species first taken in the first half of June, and increased gradually until in the latter half of September, when it accounted for 52 percent of the total blowflies.

HORN FLY (Haematobia irritans L.)

Florida. W. E. Dove (October 11): About 300 to 400 present on some dark-colored cows at De Funiak Springs, and an average of about 100 flies on other cattle.

Mississippi. S. W. Simmons (October 15): About 300 specimens per head on cattle at Pascagoula.

Oklahoma. W. G. Bruce (September 30): Percentage of horn flies as determined by a sample of 500 flies from cattle fly trap on a ranch at Waurika is 94.6, as compared with 3.4 for Stomoxys calcitrans L., and 0.2 for Cochliomyia macellaria F. (October 30): Infestations estimated from 1,200 to 2,000 per head at Waurika.

Texas. E. C. Cushing (September 13 to October 3): At Menard the average number of flies per animal dropped from 108 on September 13 to 86 on October 3.

E. W. Laake (October 29): Infestations on range and dairy cattle at Palestine, Anderson County, ranged from 300 to 800, with an average of approximately 500 per head. (October 30): Infestations on Hereford cattle in the vicinity of Jacksonville ranged from 500 to 1,500, averaging about 700 per animal.

W. G. Bruce (October 31): Infestations on cattle in the vicinity of Dallas ranged from 200 to 500 per head.

STABLEFLY (Stomoxys calcitrans L.)

Florida. W. E. Dove (October 11): Averaged about 25 per animal with about three times this number on dark animals at De Funiak Springs. (October 17): Range from none to about 40 at Panama City, averaging about .14 per head.

S. W. Simmons (September-October): Much less abundant than usual along west coast this season, owing to high degree of natural control by tides, which inundated shore deposits of bay grasses, not thrown above the normal high-tide mark by summer-storm tides.

Kansas. H. R. Bryson (September 25): Caused considerable annoyance to livestock during latter part of August.

Oklahoma. W. G. Bruce (October 31): Abundant during month.

Texas. F. C. Bishopp (October 18): Observed causing considerable annoyance to cattle along the Nueces River and on the edge of the Edwards Plateau from Barksdale to Rock Springs, the number of flies per animal during the afternoon ranging from 20 to 200. (October 31): Slight increase at Dallas during last 2 weeks.

CATTLE GRUBS (Hypoderma spp.)

Texas. E. C. Cushing (October 3): Average of 1.3 grubs per animal (range 0 to 10) on 33 cattle examined at Menard.

HORSE

HORSE BOTFLY (Gasterophilus intestinalis Deg.)

Mississippi. C. Lyle (October 28): Specimen received from Oktibbeha County.

Texas. R. Melvin (September 30): Large numbers of eggs oviposited on a horse at the Experiment Station at Menard during last week in September.

F. C. Bishopp (October 22): Flies are active in the area from Uvalde to Menard. Most horses observed were rather heavily infested with eggs, the number per animal often running into many thousands and the eggs occurring on the shoulders, flank, and neck, as well as on the legs.

HORSEFLIES (Tabanus spp.)

Florida. W. E. Dove (October 10): Two specimens of T. americanus Forst. observed on animals at Panama City. Single specimen of T. lincola F. found feeding on cattle at Panama City today.

POULTRY

STICKTIGHT FLEA (Echidnophaga gallinacea Westw.)

Texas. R. K. Fletcher (October 6): Present on chickens in Limestone County.

FOWL TICK (Argas miniatus Koch)

Texas. R. K. Fletcher (October 15): Present in Hidalgo County.

MISCELLANEOUS ANIMALS

BROWN WINTER TICK (Dermacentor nigrolineatus Pack.)

Florida. E. B. Blakeslee (October 15): First seasonal occurrence of engorged ticks was noted on sheep at Bonifay, Holmes County.

Texas. H. E. Parish (September 30): Examination of 26 horses on 2 ranches at Menard known to be infested showed negative results.

HOUSEHOLD AND STORED PRODUCTS INSECTS

TERMITES (Isoptera)

Maryland. E. N. Cory (October 18): Present in houses at Towson.

Iowa. C. J. Drake (October 24): Reported as doing damage to dwellings in Elkhader, Davenport, Glenwood, Keokuk, Belle Plaine, Denver, and Des Moines.

Nebraska. H. D. Tate (October 16): Reticulitermes flavipes Koll. from Hall and Dodge Counties on October 7 and 10, respectively.

H. R. Bryson (October 28-29): Swarmed out in large numbers following a rain on October 28. Normal injury reported, with frequent reports of damage to growing trees.

ANTS (Formicidae)

Florida. E. A. Back (September 12): Wasmania auropunctata Roger received from Miami. (Det. by M. R. Smith.)

Mississippi. C. Lyle (October 28): Solenopsis xyloni McCook reported as destroying newly planted garden seed in Jackson County and causing annoyance in Durant district. Iridomyrmex humilis Mayr troublesome in some parts of the Gulf coast district, in the Durant district, and in the southwestern district in towns where no control measures were applied last year.

Missouri. L. Haseman (November 1): Lasius interjectus Mayr reported as swarming in central Missouri during October.

Kansas. H. R. Bryson (October 1): Pogonomyrmex occidentalis Cress. reported as abundant and damaging alfalfa in a locality near Beverly. (September 20): Camponotus spp. reported as abundant in a small grove of old catalpa trees at Parsons, causing considerable annoyance to occupants of the dwelling and yard.

New Mexico. P. Simmons (August 6): Crematogaster spp. present in great numbers on large spherical light globes at a tourist camp at the mouth of the canyon leading into Carlsbad Cavern. Tops of some of the globes, which were on pillars about 2 feet high, were completely covered at 9 p. m.

California. P. Simmons (October 11): Peach limbs reported as having been attacked by Solenopsis xyloni var. maniosa Wheeler after having been brought into laboratory east of Fresno. Inner bark was eaten away, leaving only a thin outer shell. (Det. by M. R. Smith.)

BROWN-BANDED COCKROACH (Supella supellectilium Serv.)

Mississippi. C. Lyle (October 28): Specimens sent in from Hinds County the latter part of September.

Missouri. E. A. Back (November 4): Specimens received from house in St. Louis.

Oklahoma. F. A. Fenton (October 28): Reported at Lawton.

GERMAN COCKROACH (Blattella germanica L.)

General. E. A. Back (September-November): Specimens received September 27 from Lynchburg, Va.; September 28 from Pueblo, Colo.; October 24 from Tulsa, Okla.; November 3 from Edinburg, Va.; November 4, from Whiteford, Md.

Mississippi. J. Milton (October 28): Numerous in residences in Hinds County.

POWDER POST BEETLES (Lyctus spp.)

Wisconsin. C. L. Fluke (October 22): Many reports received from Marinette, Rusk, Washington, Dodge, and Brown Counties.

Idaho. J. C. Evenden (September 18): Specimens from stored wood of apple trees at Burley received. (Det. by W. S. Fisher.)

DRUG STORE WEEVIL (Stegobium paniceum L.)

California. R. E. Campbell (October 18): Reported as appearing in large numbers in two houses at Alhambra. Dog biscuit was source of infestation in one case. (Det. by E. A. Back.)

TISSUE PAPER BUG (Thylophorus contractus Mots.)

Michigan. E. I. McDaniel (October 22): Collected at Grand Rapids. New to Michigan. (Det. by E. A. Back.)

BOOKLOUSE (Troctes divinatorius Mull.)

New York. E. A. Back (September 4): Specimens from Niagara Falls. (Det. by A. B. Gurney.)

Wisconsin. E. A. Back (October 3): Found on floors, walls, and attic of house, at Menasha. (Det. by A. B. Gurney.)

California. G. H. Kaloostian (October 17): Present in all samples of raisins examined from four vineyards in Fresno County. (Det. by A. B. Gurney.)

ALMOND MOTH (Ephestia cautella Walk.)

New Jersey. H. C. Donohoe (October 10): Cereal dog food purchased at Trenton early in summer was heavily infested with larvae. Before the discovery full-grown larvae had migrated from the bag in numbers. Adults emerging about house at rate of several daily for the last month.

TOBACCO MOTH (Ephestia elutella Hbn.)

Virginia. S. B. Fenne (October 11): Very light infestation in the Danville area, as compared with last year.

GRAIN WEEVILS (Curculionidae)

Ohio. T. H. Parks (October 28): Seriously infesting oats at Columbus harvested by a combine and testing 15-percent moisture at harvest time. Oats threshed from the shock on same farm and stored under same conditions is free from weevils.

FOREIGN GRAIN BEETLE (Cathartus advena Waltl.)

Illinois. W. P. Flint (October 22): Very abundant in corn bins in northern Illinois. Caused no damage from feeding, but heating and subsequent molding of corn occurred where there were very large numbers.

A BEETLE (Typhaea stercorea L.)

Wisconsin. C. L. Fluke (October 22): Reported in grain in Monroe County that was heating. Apparently feeding upon mold that had developed.

EUROPEAN GRAIN MOTH (Nemapogon granella L.)

Maryland. E. A. Back (September-October): Garden beans badly injured by Acanthoscelides obtectus Say found heavily infested with the European grain moth as a secondary pest. Infestation active and moths were maturing during September and October.

VARIED CARPET BEETLE (Anthrenus verbasci L.)

General. E. A. Back (September-October): Specimens received September 12 from Roy E. Campbell, Los Angeles, Calif.; September 30 from Massapequa, N. Y.; October 8 from Lima, Ohio; October 10 from Seattle, Wash.; on October 18 from Richmond, Va.; October 19 from Kansas City, Mo.; October 22 from Salem, Ill.; October 22 from Worcester, Mass.; October 24 from Detroit, Mich.; October 24 from Seattle, Wash.; on October 29 from St. Louis, Mo.

FURNITURE CARPET BEETLE (Anthrenus vorax Wth.)

General. E. A. Back (November 1): Specimens received late in August from upholstery and furnishings of S. S. Helena at Norfolk, Va. Ship outfitted 2 to 3 years ago at Brooklyn Navy Yard and insects first observed during February 1939, while ship was en route from South America to New York City; damaging loom duster brushes at Opelika, Ala., on September 23; destructive to fabrics at Charlotte, N. C., on September 26; eating holes in fabrics of all kinds in household-goods storage warehouse in Miami, Fla. on November 1.

CARPET BEETLE (Anthrenus scrophulariae L.)

New York. E. A. Back (October): Found infesting boxes of books stored in New York City and shipped to Washington, D. C., early in October.

Massachusetts. E. A. Back (September): Many larvae taken in September from house in Webster.

FUNGUS BEETLE (Alphitobius piceus Oliv.)

North Carolina. E. A. Back (October 10): Specimens received from Charlotte where they were reported to be hiding in folds of blankets stored in wooden cases.

BAT BUG (Cimex pilosellus How.)

Pennsylvania. E. A. Back (September and October): Infesting house in Perkasio and spreading from attic bat roost to other parts of house, during September and October.

A YELLOW JACKET (Vespula pennsylvanica Sauss.)

California. D. B. Mackie (November 1): Present from Lake Almanor in Plumas County to Great Bear and Arrowhead Lakes in Los Angeles County, and at intermediate points, such as from Silver Lake in Amador County to Huntington Lake in Fresno County.