

THE INSECT PEST RECORD FOR OKLAHOMA 1940

F. A. FENTON, Stillwater

THE MORE IMPORTANT INSECT PESTS**

Grasshoppers, the chinch bug, and the grain bug were the most outstanding insect problems in Oklahoma in 1940.

Grasshoppers—The following is taken from the annual report (type-written) by J. M. Maxwell, state leader in grasshopper control. The heaviest infestation occurred in Cimarron County although the western portion of Texas County was also heavily infested. *Melanoplus mexicanus* was the species causing most damage although *Aeolopus turnbullii* was also important locally. Of the 1509.3 tons of bait used in 1940, 1,061 were used in Cimarron County and 341.6 in Texas County.

Chinch Bugs—The chinch bug infestation in the state as a whole was the worst since 1933. Most damage was done in northeastern Oklahoma. An early season cool spell caused a heavy delayed emergence; as a result some early corn was infested by bugs emerging directly from hibernation. According to the annual report (typewritten) by C. F. Stiles, 16,916 gallons of creosote were used in constructing barriers, protecting 15,500 acres. The migrating bugs where no barriers were built damaged 33,703 acres with an estimated loss of \$77,582.00. Because of a warm late fall, the bugs went into hibernation later than usual, having caused damage to winter wheat in October.

The Grain Bug—(*Chlorochroa sayi*)—Considerable damage was done to late-planted wheat by this bug in Cimarron County. Russian thistle or tumble weed served as a native food plant from which the insects migrated to wheat where they clustered on the heads and sucked the tender green kernels dry. A survey showed that Cimarron and Texas were the only counties infested in Oklahoma. Beaver, Harper, Ellis, Woodward, and Woods Counties were surveyed but no infestation was found.

FRUIT AND NUT INSECTS

- Agrilus ruficollis* (Fab.), red-necked cane borer—Wetumka, March 27.
Anarsia lineatella Zeller, peach twig borer—Cushing, Oct. 21; Tulsa, April 22.
Aspidiotus perniciosus Comstock, San Jose scale—Stuart (peach), Aug. 3.
Chrysobothris femorata (Oliv.), flat-headed apple tree borer—Lindsay (bush cherry and flowering quince), Apr. 27.
Conopia exitiosa (Say), peach tree borer—Terlton, Nov. 12.
Cottinis nitida (L.), green June beetle—Muskogee, Aug. 12.
Curculio caryae (Horn), pecan weevil—Checotah, Mar. 5; Eufaula, Sept. 7.
Datana integerrima G. and R., walnut caterpillar—Oklahoma City, Sept. 27*;
 partial defoliation in south central part of state, Oct. 29*.
Eriophyes caryae Keif, a mite—caused serious concern to pecan growers, July 5.
Leptocoris trivittatus Say, box elder bug—Oklahoma City, Mar. 8.
Paleacrita vernata Peck, spring canker worm—Ada, Apr. 16.
Pomphopoea sayi Lec., a blister beetle—Cheyenne (pear), Mar. 29*.

**Most of the records are from identification of material sent in to the Experiment Station. Where starred the record is from the files of C. F. Stiles and J. M. Maxwell, of the Agricultural Extension Division.

- Scolytus rugulosus* Ratz., shot-hole borer—Guthrie (peach), May 22*; Wynne-wood (cherry), May 16.
 Termites—Alva, Mar. 27; Weatherford, Mar. 20, 25.
Xylobius bastilars (Say)—Sequoyah County (pecan), Sept. 27*.

HOUSEHOLD INSECTS

- Anthrenus scrophulariae* (L.), common carpet beetle—Ponca City, July 22.
Omeas lectularius L., bed bug—Ardmore, Dec. 2; Oklahoma City, July 21; Stringtown, July 25.
Bromobates pallipes Say, sun spider—Oklahoma City, July 31.
Lasioderma serricorne (Fab.), cigarette beetle—Stillwater (cigars), Mar. 26.
Leptena saccharina L., silver fish moth—Bartlesville, Oct. 17; Weatherford, Sept. 30.
Nystus ericae Schilling, false chinch bug—Enid, Aug. 6.
Pogonomyrma barbatus var. *molefactans* Buckley, red harvester ant—Oklahoma City (yard), June 22.
Supella supellecillum Serv., banded cockroach—Bartlesville, Sept. 3; Durant, Oct. 26; Lawton, Oct. 15; North McAlester, Aug. 15; Ponca City, Jan. 15; Sapulpa, Apr. 20.
 Termites—Ada, Nov. 1; Altus, May 8; Broken Arrow, May 17; Fairfax, Nov. 14; Lawton, Feb. 23; Leedy, May 16; Marshall, Aug. 20; Martha, July 3; Okmulgee, June 25; Pawhuska, Aug. 29; Rocky, May 3; Stillwater, May 8; Thomas, June 3; Tulsa, Aug. 29.

VEGETABLE INSECTS

- Anasa tristis* DeGeer, squash bug—Gotebo, Aug. 20; Inola (pumpkins), July 21; Oklahoma City, June 6; Salina, June 1.
Aphis gossypii Glov., melon aphid—generally injurious to melons and cantaloupes in Muskogee trucking area.
Diabrotica vittata (Fab.), striped cucumber beetle—Gotebo, Aug. 20; Wynne-wood, Mar. 19.
Diaphania nitidalis (Stoll), pickleworm—Durant (gourds), Aug. 12.
Leptinotarsa decemlineata (Say), Colorado potato beetle—Poteau, Mar. 20.
Murgantia histrionica (Hahn), harlequin bug—Heavener (collards), Aug. 30.
Plutella maculipennis (Curtis), diamond-back moth—Muskogee, July 24.
Tetranychus telarius L., red spider—Oklahoma City (bean), June 25.

INSECTS INFESTING SHADE TREES AND ORNAMENTALS

- Aspidiotus perniciosus* Comstock, San Jose scale—Ponca City (Japanese quince), Oct. 24.
Ceratonia catalpae Edv., catalpa sphinx—Tulsa, Sept. 28.
Olthonaspis americana Johnson, elm scurfy scale—Muskogee, Sept. 28.
Olmbes americana Leach, elm sawfly—Cushing, May 8.
Lecanium corni Bouche', European fruit lecanium—Enid, Oct. 21; Hennessey, June 21, 24.
Macrosiphum rosae (L.) rose aphid—Shawnee, Apr. 1.
Macrosiphum sordorai (Gillette), black chrysanthemum aphid—Stillwater, Apr.
Pachypsylla celtidis-mamma Riley, hackberry nipple gall psyllid—Cherokee, May 28; Ponca City, May 24.
Pachypsylla celtidis-gemma Riley, hackberry bud gall psyllid—Stillwater, Dec.
Plectrodera scalator (Fab.), cottonwood borer—Pawnee, Aug. 24.
Pseudococcus citri (Risso), common mealy bug—Geary, Sept. 5; Oklahoma City (juniper), Aug. 30.
Stictoccephala taenialis Fab., green clover treehopper—Pawhuska (elm), Feb. 12.
 Termites—Arnett, Sept. 6; Fletcher, Aug. 15; Hobart, July 25; Tonkawa, Feb. 29; Tulsa, Apr. 19.

- Tetranychus telarius* L., red spider—Dewey (evergreen), September 4; Lahoma (cedar), Sept. 14; Shawnee (violets), Apr. 23 and (cedar), June 7.
- Thyridopteryx ephemeraeformis* Haw., bag worm—Elmore City, Aug. 15; Miami (cedar), July 15; Pawhuska, Sept. 13.
- Tomostethus multictactus* Roh., ash sawfly—Cleveland, May 14.

FIELD CROP INSECTS

- Aphis maidis* Fitch, corn leaf aphid—southwestern Oklahoma (common), Aug. 24.
- Acolopius turnbullii* Caudel—Beaver and Harper Counties*.
- Alabama argillacea* Hbn., cotton leafworm—October 29. Very little damage in state*.
- Anthonomus grandis* Boh., boll weevil—infestation heavy from Ardmore east to Idabel; elsewhere light.
- Aulocara ellioti* (Thomas), a grasshopper—western part of state, May 22*.
- Blattella leucopterus* (Say), chinch bug—Binger, July 1; Bixby (corn), June 12; Claremore, Aug. 6; Lenapah, June 22; Lookaba, Aug. 29; Oklahoma City, June 27; Osage (barley and oats), May 16; Sperry (corn), June 27; Yukon (small grains), June 16.
- Brachystola magna* (Girard), lubber grasshopper—southwestern Oklahoma*; Harper County.
- Chaetocnema denticulata* Illiger, a flea beetle (wheat)—Stillwater, Oct. 14.
- Chlorochroa sayi* Stal., Say's stink bug (wheat)—Texas and Cimarron Counties, July 24 and Aug. 22.
- Cirphus unipuncta* (Haw.), army worm—Grady, Kingfisher, Logan, and Pottawatomie Counties, May 12 to 22*.
- Diatraea grandiosella* Dyar, southwestern corn borer—Tipton, Sept. 7*.
- Euzoa messoria* Harris, a cutworm—Anadarko, Lawton, and Stillwater (wheat and barley), Mar. 26.
- Heliothis obsoleta* Fab., corn earworm—Red River counties in southeastern Oklahoma (caused 5 percent damage to corn)*.
- Melanoplus bivittatus* (Say) *M. differentialis* (Thos.), *M. mexicanus* (Sauss.), and *M. packardii* Scudder—western part of state, May 22*.
- Phyllophaga cribrosa* (Lec.)—Cotton and Comanche Counties, June 24.
- Phyllophaga lanceolata* (Say), wheat white grub—Cotton and Comanche Counties, June 24; Renfrow, Sept. 23.
- Pogonomyrmex barbatus* var. *molefactans* Buckley, red harvester ant—Blanchard, Jan. 15, Feb. 15; Canadian, July 10; Marlow (alfalfa) Jan. 15; Mulhall, June 25; Pauls Valley, Oct. 25; Waynoka, July 10.
- Psallus serriatus* Reut., cotton fleahopper—most injury reported from southwestern Oklahoma.
- Tetranychia* spp. (= *Tetranychina tritici* Ewing), brown wheat mite—Mangum, April 29; severe infestation from Mangum west to Texas line.
- Phytophaga destructor* (Say), Hessian fly—Cleveland, Oct. 12.

STORED PRODUCTS INSECTS

- Lyctus planicollis* Lec., powder post beetle—Shawnee, Feb. 15.
- Stophilus oryzae* (L.), rice weevil—Alva, Apr. 11; Mounds, Apr. 20; Newcastle, June 21; Pauls Valley, July 31.
- Tenebroides mauritanicus* (L.), cadelle—Newcastle, Jan. 30.

ANIMAL PARASITES

- Oochlomyia americana*, C. and P., screwworm—Meers (10 days later than normal; Carter, Jefferson and Love Counties*; Jefferson County, more numerous than in 1935.

Cotesia cuniculi (Clark), rabbit warble—Marlow, Nov. 21.
Tabanus abactor Philip, horse fly—Watonga (cattle, horses), Sept. 4.

MISCELLANEOUS

Othelloidea vittiger Uhl., joint bug—Fairview, June 17.
Dynastes titus (L.), rhinoceros beetle—Bristow, Aug. 12.
Triphidion mucronatum (Say)—Temple, Aug. 20.
Galleria mellonella (L.), waxmoth—Bartlesville, Sept. 11; Canton, Sept. 25;
 Shattuck, Sept. 19.
Sphécus speciosus (Drury), cicada killer—Tulsa, Aug. 2; Poteau, Aug. 12.