

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.



1.967
A2C78

VOL. 12 No. 51

DECEMBER 21, 1962

Cooperative
**ECONOMIC INSECT
REPORT**

U. S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY

JAN 15 1963

CURRENT SERIALS

Issued by

PLANT PEST CONTROL DIVISION

AGRICULTURAL RESEARCH SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL RESEARCH SERVICE

PLANT PEST CONTROL DIVISION

SURVEY AND DETECTION OPERATIONS

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Division serves as a clearinghouse and does not assume responsibility for accuracy of the material.

Reports and inquiries pertaining to this release should be mailed to:

Survey and Detection Operations
Plant Pest Control Division
Agricultural Research Service
United States Department of Agriculture
Washington 25, D. C.

COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

GREENBUG moderate to heavy locally in grain fields in northern Eddy County, New Mexico; counts up to 25-30 per linear foot in some areas. Generally light in Oklahoma, but one field each in Logan and Kingfisher Counties had counts of up to 35 per linear foot. Light and scattered in northern and panhandle areas of Texas. (p. 1261).

CITRUS WHITEFLY light to heavy on dooryard citrus and gardenias in extensive area of Oak Park District in Sacramento, California; approximately 140 city blocks infested. (p. 1261).

CABBAGE LOOPER, TOMATO FRUITWORM and BEET ARMYWORM continue to damage lettuce in Yuma County, Arizona, and CABBAGE LOOPER severely damaged tomato leaves in Columbus, Ohio, greenhouse. (p. 1262).

HOG LOUSE heavy in Bryan County, Oklahoma, and moderate on swine in Morrow and Marion Counties, Ohio. (p. 1263).

CORRECTION

See page 1266.

SPECIAL REPORTS

Status of the Screw-worm in the Southwest. (p. 1264).

Seven Years of Corn Earworm Moth Light-trap Collections in Northern Utah. (p. 1268).

Reports in this issue are for week ending December 14, unless otherwise indicated.

WEATHER BUREAU 30-DAY OUTLOOK

MID-DECEMBER 1962 TO MID-JANUARY 1963

The Weather Bureau's 30-day outlook for the period mid-December to mid-January calls for a resumption of cold weather with below normal average temperatures over the eastern two thirds of the Nation, following an initial week of appreciable moderation. West of the Continental Divide, above normal averages are predicted. Precipitation is expected to exceed seasonal normals along the Atlantic Seaboard and over the Southeast as well as in the northern Plains. Subnormal amounts are indicated for the Southwest, while in areas not specified near normal amounts are in prospect. Snow is expected to be more frequent than rain over the northeast quadrant of the Nation.

Weather forecast given here is based on the official 30-day "Resume and Outlook" published twice a month by the Weather Bureau. You can subscribe through Superintendent of Documents, Washington 25, D. C. Price \$4.80 a year, \$2.40 a half year.

WEATHER OF THE WEEK ENDING DECEMBER 17

One of the most severe December freezes on record moved over the eastern one-half of the Nation as the most notable feature of the week's weather. On all but the 10th and 16th, minima of 32° were observed over much of interior Florida, and over all but extreme southern Texas on the 12th and 13th. Numerous record lows were set for the month over the entire southeastern one-quarter of the country, and preliminary crop damage places the loss in the "hundreds of millions of dollars." On the opening day of the period the cold core of the huge high pressure area was surging southwards from the northern areas of the Great Plains and upper Mississippi Valley. A 4:00 p.m. reading on the 10th at International Falls, Minnesota, showed the mercury standing at -6°. On the following 2 days lows ranged to below -20° in the Dakotas, Minnesota and Wisconsin. As the high moved southward, so did the subzero minima and on the 13th, the record setting day, residents of London, Kentucky and Crossville, Tennessee, shivered at -17° and -18° readings, respectively. History-making temperatures were logged at numerous locales south of Tennessee and North Carolina. In Florida, Tallahassee cooled to 10°, Tampa to about 18°, for an all time low, and Jacksonville to 12° for the lowest reading of this century. Weekly averages were below normal east of a line from northeast North Dakota to north-central Texas, then across southern New Mexico. Departures on the cool side of normal were also recorded in southern California and over the Great Salt Lake Basin. A cold fog held temperatures down nearly all week in the latter area in contrast to substantially warm weather of surrounding areas. Departures for the period ranged up to 13° above normal in Wyoming and Montana to lead the way for a mostly warmer than normal week over the Far West. Over the East, where departures ranged over 18° below normal from Pennsylvania to Illinois and into the Gulf States and Georgia, Charleston, West Virginia, had the largest reported departure of 21°. On that cold Thursday, Nashville, Tennessee, had a -7° minimum, and New Orleans, Louisiana, a 17° low, both of which were new December records. Both Birmingham, Alabama, and Atlanta, Georgia, had 1° minima for similar records.

Most precipitation was light; however, the West Coast States received significant amounts, as did the areas to the lee of the Great Lakes. Snow fell in the mountains of northern California and both San Francisco and Red Bluff received rainfall totaling over 2 inches. A uniform rainfall along the Pacific Northwest coast left amounts to 2½ inches, with lesser amounts inland as their rainy season was getting into full swing.

Snow fell daily along the southern and eastern edges of much of the Great Lakes. On Monday, the 10th, Muskegon, Michigan, set a new 24-hour snowfall record with

(Weather continued on page 1267)

CEREAL AND FORAGE INSECTS

GREENBUG (Toxoptera graminum) - NEW MEXICO - Moderate to heavy locally in grain fields in northern Eddy County; some areas had up to 25-30 per linear foot. (N. M. Coop. Rpt.). TEXAS - Light and scattered in northern and panhandle areas; remains noneconomic. (Texas Coop. Rpt.). OKLAHOMA - Generally light; noneconomic (0-5 per linear foot) populations in fields checked in Muskogee, Wagoner, Tillman, Cotton, Kiowa, Love, Garvin, Bryan, Pottawatomie and Garfield Counties. Counts in Logan and Kingfisher Counties generally fewer than 10 per linear foot, but one field in both counties had counts up to 35 per linear foot. (Okla. Coop. Sur.).

ENGLISH GRAIN APHID (Macrosiphum granarium) - OKLAHOMA - Light in all fields checked in east central, south central, southwest and west central. Counts up to 50 per linear foot in Kingfisher County field. (Okla. Coop. Sur.).

APPLE GRAIN APHID (Rhopalosiphum fitchii) - OKLAHOMA - Light in most fields checked in east central, south central, southwest, west central and northwest. Higher counts noted in Kingfisher County. (Okla. Coop. Sur.).

CORN LEAF APHID (Rhopalosiphum maidis) - OKLAHOMA - Light, 0-15 per linear foot, in small grains in north central and south central areas. (Okla. Coop. Sur.).

PEA APHID (Macrosiphum pisi) - NEW MEXICO - Light in Valencia and Bernalillo Counties on alfalfa. (N. M. Coop. Rpt.). OKLAHOMA - Counts light, fewer than 10 per square foot, in alfalfa in south central area. Inactivity due to extreme cold. Light in alfalfa in Stephens County, 12 per square foot, and in winter peas in Cotton County, 3 per square foot. (Okla. Coop. Sur.).

SPOTTED ALFALFA APHID (Therioaphis maculata) - OKLAHOMA - Very light in alfalfa in Shawnee area, Pottawatomie County; individuals observed below surface of soil in crevices and under loose soil. (Okla. Coop. Sur.).

PLANT BUGS (Lygus spp.) - NEW MEXICO - Adults still common in alfalfa and grain fields in southern counties. (N. M. Coop. Rpt.).

A LEAF BEETLE (Diabrotica undecimpunctata tenella) - NEW MEXICO - Adults present in most alfalfa checked in Dona Ana, Valencia, Socorro and Bernalillo Counties. Ranged 1-10 per 25 sweeps in Valencia area, Valencia County, and 5-8 per 25 sweeps in Dona Ana County. (N. M. Coop. Rpt.).

FRUIT INSECTS

CITRUS WHITEFLY (Dialeurodes citri) - CALIFORNIA - Light to heavy on dooryard citrus and gardenias in extensive area of Oak Park District, Sacramento, Sacramento County. Survey in this area shows approximately 140 city blocks infested. Delimiting surveys underway; eradivative treatments scheduled for spring. (Cal. Coop. Rpt.).

FLORIDA WAX SCALE (Ceroplastes floridensis) - FLORIDA - Light on 10,000 sweet orange trees at Paola, Seminole County. (Youtsey, Nov. 21).

AN ARMORED SCALE (Unaspis citri) - FLORIDA - Moderate to severe on Citrus sinensis at Plymouth, Orange County. (Pott, Nov. 16).

COTTONY-CUSHION SCALE (Icerya purchasi) - FLORIDA - Infested Citrus spp. at Plymouth, Orange County. (Pott, Dec. 7).

TRUCK CROP INSECTS

CABBAGE LOOPER (Trichoplusia ni) - OHIO - Infested 3 greenhouses in central area; tomato leaves severely damaged in Columbus greenhouse. (Neiswander, Lyon).
ARIZONA - This species, TOMATO FRUITWORM (Heliothis zea) and BEET ARMYWORM (Spodoptera exigua) continue to injure lettuce in Yuma County. (Ariz. Coop. Sur.).

GREEN PEACH APHID (Myzus persicae) - OHIO - Nymphs and adults heavy on lettuce at greenhouse in Bloomfield, Pickaway County; ranged 50-65 aphids per leaf on new growth of center leaves. No control program in force. (Lyon).

SWEETPOTATO WEEVIL (Cylas formicarius elegantulus) - TEXAS - Larvae heavy in sweetpotatoes in Lee County; no pupae or adults found. (Spivey).

A WEEVIL (Cosmobaris americana) - CALIFORNIA - Larvae medium in sugar beet petioles in Union Island, San Joaquin County. (Cal. Coop. Rpt.).

COTTON INSECTS

BOLLWORM (Heliothis zea) - CALIFORNIA - Larvae light in green bolls in Winterhaven, Imperial County, and Famosa, Kern County. (Cal. Coop. Rpt.).

COTTON LEAF PERFORATOR (Bucculatrix thurberiella) - CALIFORNIA - Light in green cotton bolls in Bard area, Riverside County. Season in desert area unusually late. (Cal. Coop. Rpt.).

A LEAF ROLLER MOTH (Platynota stultana) - CALIFORNIA - Larvae light in green bolls in Visalia, Tulare County. (Cal. Coop. Rpt.).

A NOCTUID MOTH (Proxenus mindara) - CALIFORNIA - Larvae light in gin trash in Lakeview and Mettler Station, Kern County. (Cal. Coop. Rpt.).

PINK BOLLWORM (Pectinophora gossypiella) - OKLAHOMA - Gin trash inspections yielded 5 larvae per 12 bushels in Washita County and 1 larva per 37 bushels in Beckham County. (Okla. Coop. Sur.).

FOREST, ORNAMENTAL AND SHADE TREE INSECTS

APHIDS - CALIFORNIA - Adults of Lachnus salignus heavy in willow nursery stock in Auburn, Placer County, and at Walnut Creek, Contra Costa County. Nymphs and adults of Cinara piceicola heavy on twigs of spruce nursery stock in Redwood City, San Mateo County. (Cal. Coop. Rpt.). OKLAHOMA - Cinara tujafilina heavy and active on arborvitae in Oklahoma City area, Oklahoma County and Noble County. (Okla. Coop. Sur.).

Coccids in Florida - Aspidiotus destructor on common calabash-tree (Crescentia cujete) at Naples, Collier County (Walsh, Shirah, Dec. 5); severe on coconut palm at North Miami, Dade County (Hickman, Nov. 16); and moderate on pigmy date palm (Phoenix roebeleni) at Eloise, Polk County (Williams, Nov. 29). Chrysomphalus aonidium moderate on 50 Cycas circinalis at Eloise (Musgrove, Williams, Nov. 28) and on Ligustrum sp. at Tampa, Hillsborough County (Bingaman, Eberenz, Nov. 30). Chrysomphalus perseae moderate on 5 Pinus spp. at Winter Haven, Polk County. (Williams, Nov. 30). Coccus acuminatus moderate on 100 Gardenia jasminoides plants at Tampa. (Bingaman, Eberenz, Nov. 30). Coccus hesperidum severe on variegated English ivy at Miami, Dade County. (Brown, Nov. 28). Fiorinia fioriniae light to moderate on Magnolia virginiana at Winter Haven. (Williams, Hebb, Musgrove, Dec. 5). Fiorinia theae moderate to severe on Camellia sp. at Cocoa and on Eurya japonica at Eau Gallie, Brevard County. (Levan, Nov. 27 and Dec. 4, respectively), and severe on Camellia japonica at Eloise, Polk County

(Musgrove, Hebb, Williams, Nov. 28). Considerable numbers of Icerya purchasi observed on a short Desmodium sp., wild verbena, rosinweed and other weeds at Lake Worth, Palm Beach County. (Det. and collected by W. G. Genung). Lepidosaphes camelliae moderate to severe on Camellia sp. at Cocoa, Brevard County. (McFarlin, Dec. 4). Pseudaonidia clavigera on loquat (Nov. 7); Ligustrum sp. and Camellia sp. (Dec. 4); Buxus sp. (Dec. 6) at St. Petersburg, Pinellas County. (Bingaman). Pseudaulacaspis pentagona on Koelreuteria sp. at Orlando, Orange County (Crews, Dec. 6); 25 plants quarantined (Fla. Coop. Sur.).

A PIT SCALE (Asterolecanium arabis) - CALIFORNIA - Adults medium on Pittosporum tobira nursery plants in Sacramento, Sacramento County. (Cal. Coop. Rpt.).

TULIPTREE SCALE (Toumeyella liriodendri) - CALIFORNIA - All stages heavy on yellow-poplar in San Jose, Santa Clara County. This scale under eradication by the county. (Cal. Coop. Rpt.).

CUBAN-LAUREL THRIPS (Gynaikothrips ficorum) - CALIFORNIA - All stages medium on Ficus retusa in nursery in Ontario, San Bernardino County. (Cal. Coop. Rpt.).

AN ETHMIID MOTH (Pyramidobela angelarum) - CALIFORNIA - Larvae heavy in leaf folds of buddleia plants in nursery in Oroville, Butte County. (Cal. Coop. Rpt.).

FULLER ROSE BEETLE (Pantomorus godmani) - CALIFORNIA - Medium on palm and "tea trees" in El Cajon, San Diego County. (Cal. Coop. Rpt.).

A JUNIPER MOTH (Periploca nigra) - CALIFORNIA - Larvae heavy and damaging juniper nursery stock in Hayward, Alameda County. Moth not so prevalent this season as in 1961 when it caused widespread damage to permanent plantings of juniper over much of the State. (Cal. Coop. Rpt.).

A LEAF ROLLER MOTH (Clepsis peritana) - CALIFORNIA - Medium on Thuja orientalis nursery stock in Oroville, Butte County. (Cal. Coop. Rpt.).

NAVEL ORANGEWORM (Paramyelois transitella) - CALIFORNIA - Larvae medium in fruit of Burmese honeysuckle (Lonicera sp.) in Mountain View, Santa Clara County. (Cal. Coop. Rpt.).

TWO-SPOTTED SPIDER MITE (Tetranychus telarius) - CALIFORNIA - Light on abutment and impatiens plants in Anaheim, Orange County, and light on Acuba sp. in Yuba City, Sutter County. (Cal. Coop. Rpt.). OHIO - Damage light to euonymus plants at greenhouse in Greenville, Darke County. (Lyon).

SNAILS - OHIO - Heavy damage to petunia leaves in greenhouse in Darke County; many potted plants 50-75 percent defoliated. (Lyon).

INSECTS AFFECTING MAN AND ANIMALS

CATTLE LICE - UTAH - Cattle rubbing due to lice at Beaver, Beaver County, and Kanosh and Meadow, Millard County. Spottedly numerous on cattle in Uintah Basin, Uintah and Duchesne Counties; approximately 1,000 animals treated for lice by systemics in Kane County and dipping vat being built at Glendale. (Knowlton).

CHICKEN BODY LOUSE (Menacanthus stramineus) - OKLAHOMA - Present on chickens in Stillwater area, Payne County. (Okla. Coop. Sur.). OHIO - Light on young pullets at turkey farm in Darke County. (Lyon).

HOG LOUSE (Haematopinus suis) - OKLAHOMA - Reported heavy in Bryan County. (Okla. Coop. Sur.). OHIO - Moderate on swine in Morrow and Marion Counties; heavy on confined feeder pigs at farm in Morrow County. (Rings, Lyon).

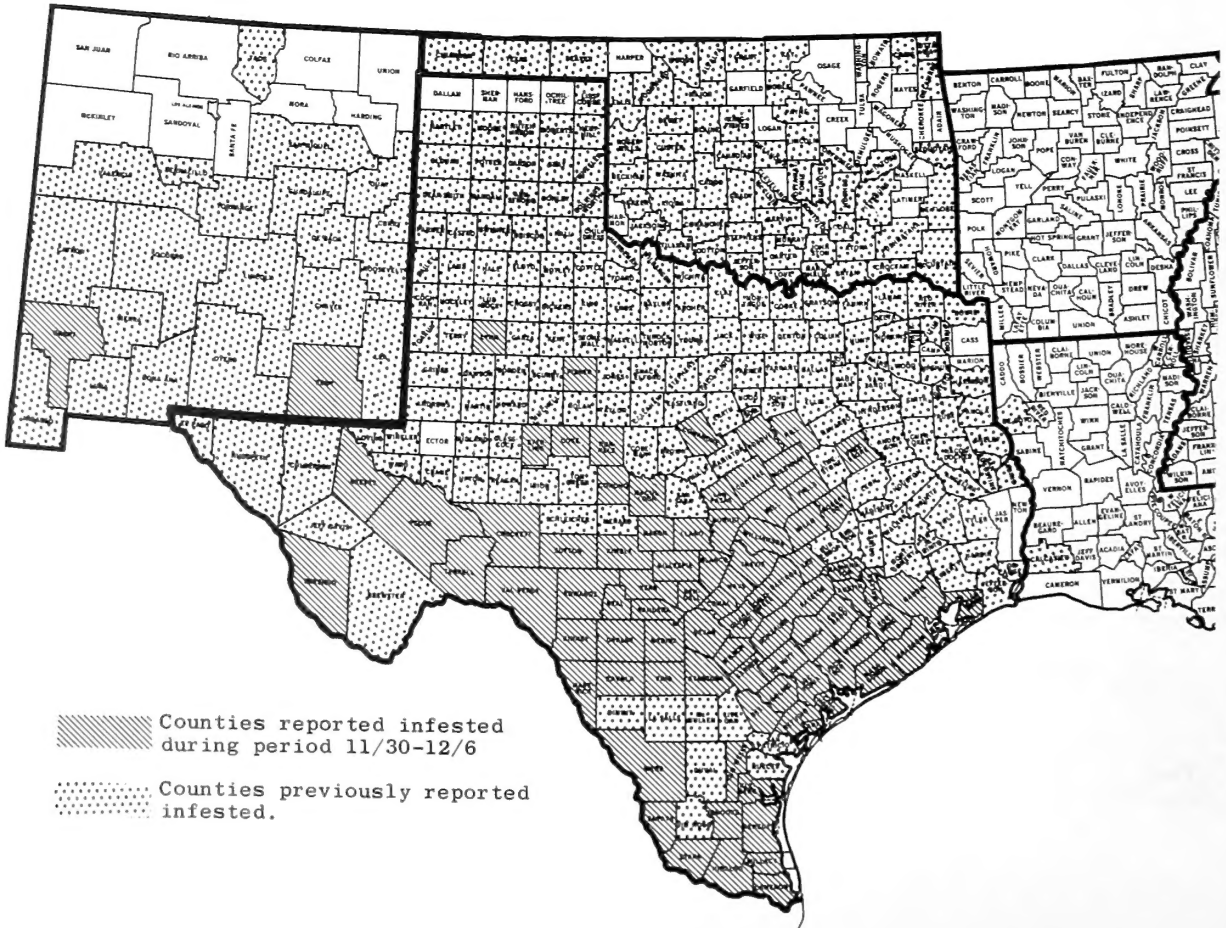
CAT FLEA (Ctenocephalides felis) - OHIO - Heavy on hunting dogs near New Vienna, Clinton County. (Custis, Tripplehorn).

CATTLE GRUBS (*Hypoderma* spp.) - UTAH - Grub control applied to 1,000 cattle in Kane County. (Knowlton, Hatch). OKLAHOMA - Average counts of *H. lineatum* per head in counties were as follows: 2, Pontotoc; 4, Lincoln; 7, Murray; 8, Marshall; and 2, Noble. Light in Bryan County. (Okla. Coop. Sur.).

MOSQUITOES - TEXAS - Activity in Jefferson County subsided considerably during November; only small amount of controls required. (Jefferson Co. Mosq. Cont. Comm., Nov. Rpt.).

STATUS OF THE SCREW-WORM (*Cochliomyia hominivorax*) IN THE SOUTHWEST

During the period November 23-29 a total of 74,051,850 sterile flies was released and during the period November 30-December 6, a total of 79,855,250 sterile flies was released. Distribution during both periods involved an area of 73,000 square miles in Texas, 7,000 square miles of the average overwintering area of New Mexico, and 10,000 square miles in Mexico near the Rio Grande from Laredo to Brownsville. Sterile flies are presently being released in quantities to give maximum benefit according to indicated native populations in the various zones. The southeastern portion of the release area is receiving flies at the rate of 400 per square mile. The northern region of the release area in Texas, where populations are apparently heaviest, is receiving sterile flies at the rate of 1,000 per square mile. The overwintering area in New Mexico, the barrier zone of the Pecos River region, and the region in Mexico along the Rio Grande from Laredo to Brownsville will receive sterile flies at rate of 600 per square mile. A total of 521 screw-worm cases was reported during the first period and 484 cases reported during the latter period. (Anim. Dis. Erad. Div.).



CHICKEN MITE (Dermanyssus gallinae) - OKLAHOMA - Infestations noted in Choctaw County. (Okla. Coop. Sur.).

ITCH MITE (Sarcoptes scabiei) - OHIO - Infested feeder pigs at farm in Licking County. (Holdsworth).

WINTER TICK (Dermacentor albipictus) - OKLAHOMA - Heavy on horses in Payne and Sequoyah Counties. (Okla. Coop. Sur.).

BROWN DOG TICK (Rhipicephalus sanguineus) - OKLAHOMA - Activity continues in Stillwater area, Payne County. (Okla. Coop. Sur.).

HOUSEHOLD AND STRUCTURAL INSECTS

BROWN-BANDED COCKROACH (Supella supellectilium) - OHIO - Nymphs and adults noted in University building in Franklin County. Found in crevices behind baseboards, under laboratory sinks, and inside drawers. (Roa, Lyon, Dec. 6). MARYLAND - Infested home in Glen Burnie, Anne Arundel County. (U. Md., Ent. Dept.).

COCKROACHES - UTAH - Problem in several motels at St. George, Washington County. (Knowlton). ARIZONA - Several species causing annoyance in Tucson area, Pima County. (Ariz. Coop. Sur.).

DRUGSTORE BEETLE (Stegobium paniceum) - OKLAHOMA - Causing some concern in Oklahoma City area, Oklahoma County, and Cushing area, Payne County. (Okla. Coop. Sur.).

EARWIGS - ARIZONA - Continue troublesome in homes in Maricopa, Pinal, Pima and Yuma Counties. (Ariz. Coop. Sur.).

FACE FLY (Musca autumnalis) - VIRGINIA - Adults extremely abundant on warm, sunny days in and around home near Independence, Grayson County. (Simpson, Dec. 5).

FUNGUS GNATS - MARYLAND - Undetermined species caused annoyance in home in Baltimore. (U. Md., Ent. Dept.).

HOUSE FLY (Musca domestica) - NEW MEXICO - This species mostly a problem around homes and businesses in Bernalillo and Valencia Counties. (N. M. Coop. Rpt.). UTAH - Invaded homes at Logan, Ogden and Salt Lake City. (Knowlton).

A POWDER-POST BEETLE - OKLAHOMA - Unspecified species damaged furniture in Miami area, Ottawa County. (Okla. Coop. Sur.).

A WEEVIL (Hypera brunneipennis) - CALIFORNIA - Adults medium and invading residence in Vista, San Diego County; several instances of migrating adults invading households in southern part of State in past. (Cal. Coop. Rpt.).

STORED-PRODUCT INSECTS

ALMOND MOTH (Ephestia cautella) - TEXAS - Moderate in bin of stored milo in Lee County; caused sufficient damage to justify control. (Spivey).

A DARKLING BEETLE (Latheticus oryzae) - CALIFORNIA - Larvae medium in animal feed in Modesto, Stanislaus County. (Cal. Coop. Rpt.).

DRIED-FRUIT BEETLE (Carpophilus hemipterus) - CALIFORNIA - Adults of this species heavy on sweetpotato roots in Turlock, and C. humeralis present in Salida, Stanislaus County. (Cal. Coop. Rpt.).

LESSER GRAIN BORER (Rhyzopertha dominica) - VIRGINIA - Light, local infestations in grain in Richmond. (Innes).

MEDITERRANEAN FLOUR MOTH (Anagasta kuhniella) - OHIO - Larvae noted in wheat flour at grocery in Putnam County. Heavy webs present in flour. (Blair).

A SOLDIER FLY (Hermetia illucens) - VIRGINIA - Larvae of probably this species collected from ensilage at Rustburg, Campbell County. (Tarpley, Carson). Heavy in corn ensilage in upright silo on farm near Daleville, Botetourt County; cattle hesitant about eating ensilage. (Tarpley, Noel, Dec. 10).

BENEFICIAL INSECTS

A LADY BEETLE (Adalia frigida)- OHIO - Adults abundant under loose elm tree bark near Apple Creek, Wayne County. Groups of 8-10 adults common in many different locations on trunk of trees. (Griswold, Lyon, Dec. 5).

A PARASITIC EUCHARITID (Orasema sp.) - FLORIDA - Collected on Ligustrum lucidum at Mayo, Lafayette County, and on L. japonicum at Branford, Suwannee County. (Miller, Nov. 27). These are new county records for this parasite of ants. (Fla. Coop. Sur.).

MISCELLANEOUS INSECTS

AN ANT (Tetramorium sp.) - OHIO - Annoying to several homeowners in Columbus, Franklin County. Observed in slab-type homes, with copper coil pipe heating permitting optimum soil temperatures. (Holdsworth).

IMPORTED FIRE ANT (Solenopsis saevissima richteri) - FLORIDA - Collected at Clearwater, Pinellas County (Hill, Nov. 30); at Macclenny, Baker County (King, Josey, Shepard, Dec. 7); and at Gainesville, Alachua County (Graham, Dec. 11).

AN EARWIG (Labidura riparia) - SOUTH CAROLINA - This species definitely on increase in State; reported in a number of localities from Columbia, Richland County, and McCormick, McCormick County, to the Atlantic coast. Specimens collected November 28 at Holly Hill, Orangeburg County. (Nettles et al.).

MITES - CALIFORNIA - Adults of an acarid mite (Caloglyphus mycophagus) and a urodinychid mite (Leiodinychus krameri) heavy in earthworm beds in Folsom, Sacramento County. (Cal. Coop. Rpt.).

PODURID SPRINGTAILS - TEXAS - Large numbers attracted attention on lawns in Scurry County. (Conner, Dec. 7).

A SNAIL (Cionella lubrica) - CALIFORNIA - Heavy on lawn in Amador City, Amador County. Only other occurrence of this snail in State reported in Berkeley Hills, Alameda County, several years ago. (Cal. Coop. Rpt.). This is a noneconomic species.

TERMITES - TEXAS - Undetermined species destroyed cardboard oilcan cases brought into Ward County from out of State. (Harrison, Dec. 7).

WASPS - UTAH - Continue to invade occasional homes and schoolrooms in scattered localities of northern and central parts of the State. (Knowlton).

CORRECTION

CEIR 12(49):1229 - SPOTTED ALFALFA APHID - ARKANSAS - Counts should read: fewer than 100 per 100 sweeps.

LIGHT TRAP COLLECTIONS

	Pseudaletia unipuncta	Agrotis ippsilon	Feltia subterranea	Heliothis zea
FLORIDA				
Gainesville 12/3	1	4		
SOUTH CAROLINA				
Charleston 12/3-9	18	4	4	2
Charleston 12/10-16	2	1		

Weather of the week ending December 17 (continued from page 1260)

13 inches by 1:00 p.m. Midweek snow depths ranged to 4 feet or more in these leeward areas where some were of record-breaking proportions along Lake Michigan.

As the period was ending, record high temperatures were being set through the northern and central Great Plains. Sioux City, Iowa, had 64° on the 16th to equal a late season record, and Sioux Falls, South Dakota, had a 59° high to exceed their record for so late. (Summary supplied by U. S. Weather Bureau).

UTAH STATE UNIVERSITY
Extension Services
Logan, Utah

Mimeograph Series 198
September 1962

SEVEN YEARS OF CORN EARWORM MOTH LIGHT-TRAP COLLECTIONS IN NORTHERN UTAH

1956 - 1962

George F. Knowlton
Extension Entomologist

The corn earworm was a more serious pest of commercial canning corn in northern Utah during 1957 and 1958 than in 1956, 1959, 1960, 1961 or 1962. This is reflected in the catch of corn earworm moths taken in the three blacklight traps operated each season. This study of the adult Heliothis zea moth catch was made possible through cooperation of the management and agricultural field personnel, California Packing Corporation, which operated a blacklight trap at Roy or Ogden in Weber County, and one each at Spanish Fork and Benjamin in Utah County during 1956 - 1957. The Spanish Fork light was moved to, and operated at, nearby Salem during 1960, 1961 and 1962. The Weber County light was moved to the factory area a few miles to west Ogden, for operation during 1958 - 1962. This light-trapping program was carried out in an effort to better understand and record the flight habits of this important agricultural pest.

WEBER COUNTY

Catches at Roy -- Ogden

Date	<u>1956</u>	<u>1957</u>	<u>1958</u>	<u>1959</u>	<u>1960</u>	<u>1961</u>	<u>1962</u>
June							
21							0
22							0
23							2
24							0
25				0			0
26				0			1
27				0			0
28				0		0	0
29				0		0	2
30				0		0	0
July							
1			0	0		0	0
2			0	0		-	1
3			1	0	0	0	0
4			1	0	1	-	-
5			0	1	0	-	0
6			1	0	0	1	2
7			0	0	0	1	
8			2	0	1	1	2
9			0	0	0	-	1
10			1	0	0	1	0
11			1	0	0	0	0

Catches at Roy -- Ogden

<u>Date</u>	<u>1956</u>	<u>1957</u>	<u>1958</u>	<u>1959</u>	<u>1960</u>	<u>1961</u>	<u>1962</u>
July							
12		0	0	0	0	0	
13		0	0	0	0	0	0
14			1	1	0	0	0
15		1	0	0		0	0
16		0	2	0		1	1
17		2	0	0	1	1	0
18		0	1		0	0	1
19			1	0		0	1
20		1	0	0	2		0
21			0	0	0		0
22		1	1	0	1	0	2
23		1	4	1	1	0	1
24		1	0	0	2	1	2
25		1	2	0	1	1	2
26		1	0		1	0	1
27		1	0	0	0	0	0
28		0	1	1	1	0	1
29		0	1		1	0	1
30		0	0	0	0		0
31		1	0	0	0	0	1
August							
1		1	0	0		0	1
2			0	0	1	1	1
3		1	4	0	0		0
4		1	0	0	0		0
5		0	1	1	0	0	0
6			1	1	0	0	1
7		0	3	1	1	1	0
8	1		9	3		1	
9		0	3	0	2	1	0
10	1	0	1	2		0	0
11		0	3	0		1	0
12	1	1	3	0	1	0	1
13	1	1	12	3	0	0	0
14	0		5	1	0	1	1
15	1	1	7	0	0	0	0
16	2	1	5	1	0	1	0
17	3	4	4	1	0	0	0
18		3	3	0	0	1	1
19	5	5	2		0	0	1
20	2	2	2	0	1		0
21	3		1	1	1		0
22	2	3	4	1		0	0
23	3	2	6			0	
24		2	1	1			1
25	1		2	1			0
26	1	2		3	1		1
27	1		0	1	2		2
28	1	3	1	3	0		0
29	1	3		1		1	0
30	1	2			0	0	0
31		3	0	0		0	0

Catches at Roy -- Ogden

<u>Date</u>	<u>1956</u>	<u>1957</u>	<u>1958</u>	<u>1959</u>	<u>1960</u>	<u>1961</u>	<u>1962</u>
Sept.							
1	0	1	0	0		0	0
2			1	1			1
3	1	2	1	1			1
4		1		2			
5		1		3			
6		1	0	1			
7		3	3	1			
8			5	2			
9		2	5	1			
10		0	8	1			
11		2	5	2			
12		1	6	5			
13		1	2	2			
14		1	0	0			
15			1	0			
16		1	1				
17		3	2				
18		4					
19		1					
Totals	32	77	144	52	23	17	38

UTAH COUNTY

Catches at Spanish Fork -- Salem

<u>Date</u>	<u>1956</u>	<u>1957</u>	<u>1958</u>	<u>1959</u>	<u>1960</u>	<u>1961</u>	<u>1962</u>
July							
10							1
11							1
12							1
13							0
14							0
15				0	1		
16			2	0			
17			0	1			
18			2		1		
19				0	1	0	2
20			2	0	2	1	
21					1	2	1
22					1		
23			2				1
24		0			2	1	3
25		0				0	2
26		1	1			2	
27		1			3		0
28			2		1	0	1
29			1	0	0		
30		2	0	0		2	2
31		2	0	0		0	0

Catches at Spanish Fork -- Salem

<u>Date</u>	<u>1956</u>	<u>1957</u>	<u>1958</u>	<u>1959</u>	<u>1960</u>	<u>1961</u>	<u>1962</u>
August							
1		1	0	1	0	1	1
2		1	0	1		1	
3		0					0
4		1	2	0	0	0	
5		?	3	0	2		
6		0	2	1			0
7		0	3	0		1	0
8		0	2			1	1
9		0	3	1	1		1
10				0	1		
11		1	4	1	0		1
12	1	0	4	0	1		
13	1	0		0			1
14	1	2	4	0			1
15	1		5	0			2
16	0		4	0	2		
17	1	1	1	0			0
18	0	1	1	0	0		
19	0	?	1				
20	0		0	0	1		
21	0	1	1	1			
22	0	1	0	0			
23	1	2	0	1			
24	1	?	1	1	1		
25	1	2	0	0			
26	1	1	1	0			
27	?	1		0			
28	1	3	0	0			
29	?	4	0	1			
30	1	1	0	1	0		
31	?	2	0	0			
Sept.							
1	?		2	1			
2	1	2	1	0			
3		0	0	0			
4	?	1	1	0			
5	1	0		1			
6		0	1	0			
7		0	1	1			
8		1		2			
9		1		1			
10		0		1			
11				2			
12				5			
13				2			
14				0			
15				0			
Totals	13	37	60	27	22	12	23

Catches at Benjamin

<u>Date</u>	<u>1956</u>	<u>1957</u>	<u>1958</u>	<u>1959</u>	<u>1960</u>	<u>1961</u>	<u>1962</u>
July							
13						1	1
14						1	
15						2	
16			2			0	
17			1	0			
18			3		1		
19				1	0	1	0
20				0	0	1	0
21				0	0		0
22		3		0		0	1
23				0			0
24		0		1			1
25			1	0		1	
26		0	2	0	1	1	0
27		0		0	1	0	0
28		2	1	0	1	1	1
29			1	0	1	0	0
30		1	0	0		0	0
31		2	1	0			0
August							
1		2	1	1	1	0	0
2		2	0		0	1	2
3		1		0	0	0	
4		2	2	1	1	1	1
5		1	1	0	1		
6		0	2	0	1		1
7		0	2	0		0	0
8		1	1		0	1	0
9		1	2	0	0	0	0
10				1	0	0	1
11		1	2	0	0	0	
12	1	0	2	0	1	1	
13		0	8	1	0	0	0
14		1	13	0	1	2	0
15	2	0	5	0	1	0	0
16	1	2	4	0	0		0
17	1	1	2	0	0	0	0
18	0	1	2	0			
19	2	1	2		1	1	
20	0	0	2	1	0	1	0
21	1		4	0	2	0	
22	1	2	2	1	0	0	
23		2	0	1			
24		1	0	0	1	0	
25	1	1	1	0		0	
26	1	1	0	0	1		
27	0	1	1	1	1		
28	0	1	0		0		
29	0		0	0	0		
30	0	1	0	1	0		
31	0	1	1	0			

Catches at Benjamin

<u>Date</u>	<u>1956</u>	<u>1957</u>	<u>1958</u>	<u>1959</u>	<u>1960</u>	<u>1961</u>	<u>1962</u>
Sept.							
1	0		1	0			
2	?	0	0	0	0		
3		1	0	0			
4	0	0	1	0	0		
5	0	0		0			
6		0	0	0			
7			1	0			
8		0		0			
9		1		0			
10		1					
Totals	<u>11</u>	<u>39</u>	<u>76</u>	<u>11</u>	<u>18</u>	<u>17</u>	<u>9</u>



UNITED STATES DEPARTMENT OF AGRICULTURE

WASHINGTON 25, D. C.

Official Business

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF AGRICULTURE

