

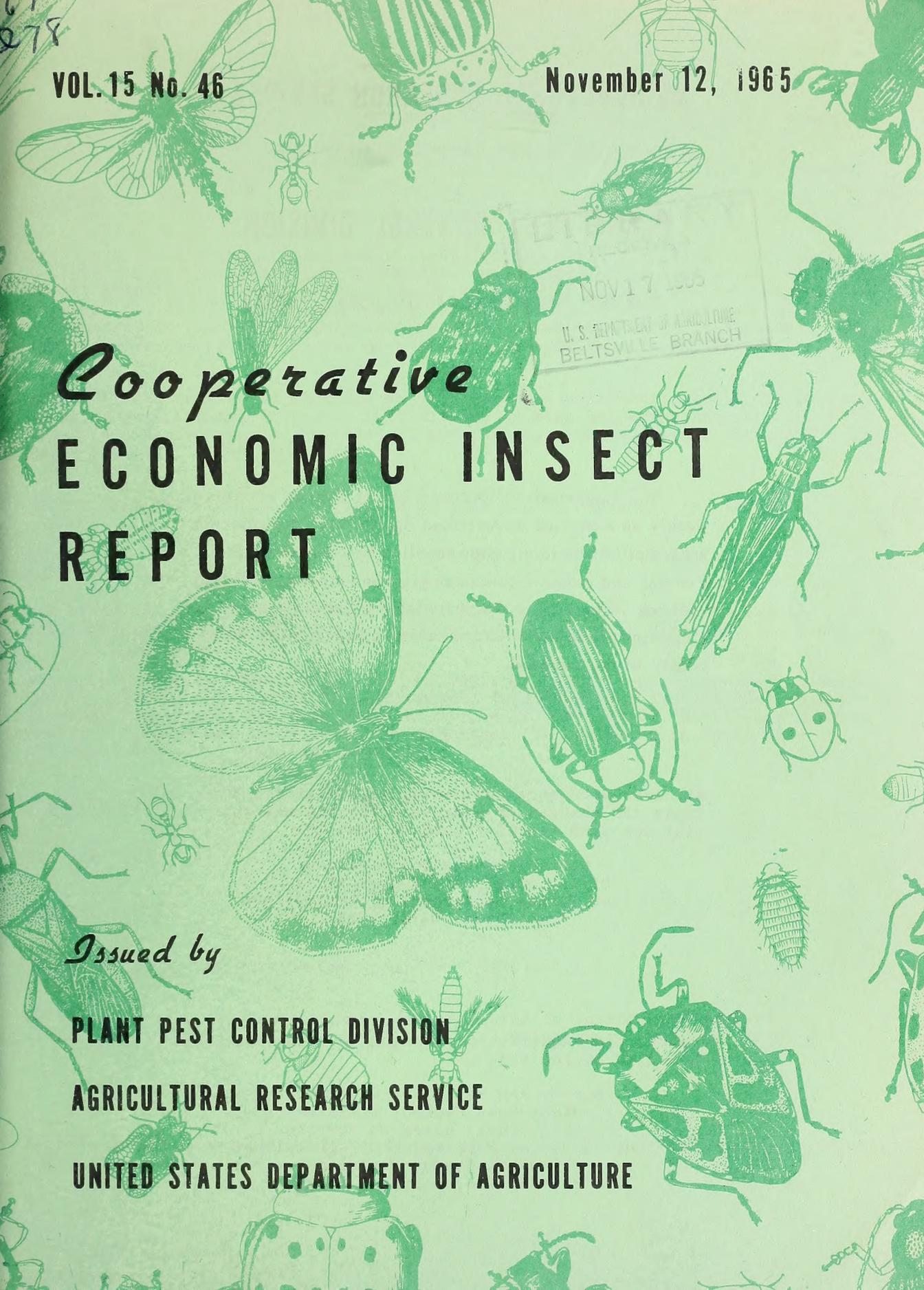
## Historic, archived document

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



278  
VOL. 15 No. 46

November 12, 1965



*Cooperative*  
**ECONOMIC INSECT  
REPORT**

LETTERS  
NOV 17 1965  
U. S. DEPARTMENT OF AGRICULTURE  
BELTSVILLE BRANCH

*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.

All correspondence pertaining to additions, deletions and changes of addresses for the mailing list for this report should be sent to:

Service Operations Division  
Office of Plant and Operations  
United States Department of Agriculture  
Washington, D. C. 20250

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  
Federal Center Building  
Hyattsville, Maryland 20781

## COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

PEA APHID and SPOTTED ALFALFA APHID counts rather high in alfalfa in Illinois. Weather remains favorable for GRASSHOPPER egg deposition in some areas. (p. 1263). WOOLLY APPLE APHID caused extreme damage to roots of apple trees in orchards in Alabama. (p. 1264). CITRUS RUST MITE infestations on Florida citrus much above average and in high range; increase expected in most districts in November. Two new infestations of citrus rust mite found on citrus in Arizona. (p. 1265).

PINK BOLLWORM male moths continue to be trapped in California; collected in new areas of Yuma County, Arizona. Late buildup of pink bollworm indicated in southern Dona Ana County, New Mexico, and infestations widespread in Reeves and Pecos Counties, Texas. (p. 1266).

CELERY LEAF TIER continues to spread in Yuma County, Arizona. (p. 1266).

DETECTION

New state records reported were a MUSCID FLY (Coenosopsia prima) in Florida (p. 1264) and a MARGARODID SCALE (Xylococcus betulae) in Virginia. (p. 1268).

New county records reported include: A FRUIT FLY (Anastrepha suspensa) in Martin County, Florida, (p. 1265); ELM LEAF BEETLE (Galerucella xanthomelaena) in Brown, Atchison, Jefferson, Jackson, Pottawatomie, Geary, Wabaunsee, Morris and Douglas Counties, Kansas, (p. 1267); TOBACCO MOTH (Epehstia cautella) in Jones and Chickasaw Counties, Iowa, (p. 1269).

CORRECTIONS

See page 1269.

SPECIAL REPORTS

Status of the Screw-worm in the Southwest. (p. 1271).

Estimated Losses and Production Costs Attributed to Insects and Related Arthropods Attacking Beef and Dairy Cattle in Oklahoma in 1964. (p. 1272).

Reports in this issue are for the week ending November 5 unless otherwise indicated.

WEATHER OF THE WEEK ENDING NOVEMBER 8

HIGHLIGHTS: (1) Another sunny week. Warm in most areas. (2) Mostly dry except for the Northwest coast. Heavy showers in east Texas; few scattered showers elsewhere.

TEMPERATURE: Unseasonably mild weather prevailed over almost the entire Country last week. Weekly average temperatures were above normal from the Pacific Ocean to the Appalachians and as much as 8° to 10° above normal from the Idaho area to the central Mississippi River Valley. Below normal temperatures were mostly confined to the New England area. In the Northwest, this was the second consecutive warm week. On Tuesday afternoon, temperatures over the northern and central Great Plains climbed into the 70's with a 74° high at Bismarck, North Dakota, and 82° at Valentine, Nebraska.

PRECIPITATION: Rain fell on several days along the Pacific Northwest coast as the rainy season was resumed in that area. Unstable air brought moderate to heavy rain to east Texas at midweek. Flooding conditions occurred in the Lavaca and Navidad Rivers and Hallettsville, Texas, reported more than 8 inches of rain. Elsewhere only scattered, mostly light showers occurred and mostly over the Great Lakes, New England, and in parts of Florida. For much of the Great Plains, the intermountain area, and the Southwest, this was the second or third dry week. The central and western Corn Belt has been dry for at least two weeks. In the northeast drought area, weekly rainfall was generally less than 0.1 inch as the drought worsened slightly. Snowfall of 2-3 inches occurred in northeastern Minnesota over last weekend. Snow elsewhere was confined mostly to a few mountain locations in the Northeast.

FREEZING: Freezing temperature came to the central Carolinas for the third consecutive week. There was no significant southward advance of the freeze line. (Summary supplied by U. S. Weather Bureau).

CEREAL AND FORAGE INSECTS

PEA APHID (*Acyrtosiphon pisum*) - WISCONSIN - Populations fluctuate considerably; generally low in southeast. Some decrease noted since last week; due primarily to high incidence of parasitism and/or disease. *Nabis ferus* (a damsel bug) principal predator in most fields although various lady beetles present in many heavily infested fields. (Wis. Ins. Sur.). ILLINOIS - Ranged 300-16,000 (average 5,100) per 100 sweeps in southeast area alfalfa. (Ill. Ins. Rpt.). NEBRASKA - Light in alfalfa in Gage County. (Rhine). OKLAHOMA - Ranged 2-4 per 10 sweeps in alfalfa in Jackson and Kiowa Counties. (Okla. Coop. Sur.). ARKANSAS - Remains low in northwest. (Ark. Ins. Sur.). NEW MEXICO - Light in alfalfa throughout State. (N. M. Coop. Rpt.). VIRGINIA - Adults and nymphs averaged 20 per sweep in alfalfa in Floyd County field. Light in other fields in Floyd and Montgomery Counties. (Isakson).

SPOTTED ALFALFA APHID (*Therioaphis maculata*) - VIRGINIA - Ranged 10-30 per 10 sweeps in alfalfa in Floyd and Montgomery Counties. (Isakson). WISCONSIN - Apparently increased in some locations; seldom exceeded 2 per sweep along field margins in heavily infested areas. Males not found. (Wis. Ins. Sur.). ILLINOIS - Active in alfalfa in southeast; 5-3,400 (average 1,251) per 100 sweeps. (Ill. Ins. Rpt.). NEBRASKA - Averaged 25 per sweep in Saunders and Butler Counties; 50 percent oviparous females. (Schalk, Stevens). ARKANSAS - Surveys continue negative in northwest. (Ark. Ins. Sur.). ARIZONA - Some decrease in alfalfa in Yuma and Maricopa Counties. (Ariz. Coop. Sur.).

THREE-CORNERED ALFALFA HOPPER (*Spissistilus festinus*) - ARIZONA - Decrease continues in alfalfa in Yuma, Pinal and Maricopa Counties. Nymphs light to moderate in Yuma County. (Ariz. Coop. Sur.).

POTATO LEAFHOPPER (*Empoasca fabae*) - WISCONSIN - Nymphs continue light in scattered alfalfa fields. (Wis. Ins. Sur.).

TARNISHED PLANT BUG (*Lygus lineolaris*) - ILLINOIS - Adults abundant with few nymphs observed in southeast area alfalfa. (Ill. Ins. Rpt.). ARKANSAS - Decreased in alfalfa in northwest. (Ark. Ins. Sur.).

ALFALFA WEEVIL (*Hypera postica*) - VIRGINIA - Larvae ranged 10-20 and adults 0-2 per 10 sweeps in Floyd County. Averaged 10 adults and 3 larvae per 20 sweeps in Montgomery County field. (Isakson). ILLINOIS - Adults active in southeastern area alfalfa; 0-6 (average 2.25) per 100 sweeps. (Ill. Ins. Rpt.).

ALFALFA CATERPILLAR (*Colias eurytheme*) - OKLAHOMA - Averaged 8 per 10 sweeps in Tillman County alfalfa. Very light to absent in other southwest counties. (Okla. Coop. Sur.).

A SPRINGTAIL (*Sminthurus* sp.) - OKLAHOMA - Heavy, 200-300 per 10 sweeps, in alfalfa in Tillman County. (Okla. Coop. Sur.).

MEXICAN BEAN BEETLE (*Epilachna varivestis*) - MARYLAND - Damage heavy on 4 acres of late soybeans near Naylor, Prince Georges County. (U. Md., Ent. Dept.).

GRASSHOPPERS - IDAHO - Several species observed on gravelly rangeland east and west of Shoshone, Lincoln County, in mid-October; *Melanoplus sanguinipes*, *M. packardii*, *Oedaleonotus enigma* and various *Oedipodinae* noted. Although average less than one per square yard, adults still active; females examined contained fairly large numbers of eggs. Weather throughout October remained favorable for egg deposition. (PPC). NEBRASKA - *M. femurrubrum* light in field margins in Lancaster and Gage Counties. (Rhine). SOUTH DAKOTA - Spot checks for eggs made in 13 south central and southeastern counties. Eggs quite numerous in most fields; ranged light to severe. Averaged 7 egg pods per square foot in soil bank field in Beadle County. (Burge, Zimmerman). Grasshoppers, including *M. femurrubrum* and *M. bivittatus*, 3-6 per square yard in alfalfa east of Spearfish; temperature in high 70's. (Jones). WISCONSIN - *M. differentialis* mating. (Wis. Ins. Sur.).

A CRICKET (*Nemobius fasciatus*) - ALABAMA - Heavy in fescue and other pasture grasses in Randolph County; destroyed considerable number of seedling clover plants; reduced winter clover stands. (Barwood, Brackeen).

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - SOUTH DAKOTA - In areas of fields surveyed in Clark, Codington, Grant, and Spink Counties, larvae low or nonexistent; 2 fields in Grant County with 132 and 220 borers per 100 stalks respectively. (Jones).

CORN EARWORM (*Heliothis zea*) - WISCONSIN - Larvae numerous in late field corn in southeast; all larvae dead in severely frosted fields. (Wis. Ins. Sur.).

FALL ARMYWORM (*Spodoptera frugiperda*) - OKLAHOMA - Ranged 8-10 per square foot in Bryan County wheat. (Okla. Coop. Sur.). TEXAS - Caused light local damage to scattered pastures and small grains in eastern area. (Meisch).

CORN LEAF APHID (*Rhopalosiphum maidis*) - NEW MEXICO - Light in young barley in Dona Ana County. (Campbell, Harrison). OKLAHOMA - Generally light in planted wheat, light to moderate in volunteer wheat, and moderate in Johnson grass along wheat margins in southwest area. (Okla. Coop. Sur.).

ENGLISH GRAIN APHID (*Macrosiphum avenae*) - OKLAHOMA - First of season in wheat in Hollis area, Harmon County. (Okla. Coop. Sur.).

Grain Aphids in South Dakota - *Rhopalosiphum maidis*, *R. padi*, *R. rufiabdominalis*, *Macrosiphum avenae*, and *Forda olivacea* collected from winter grains this fall. *Acyrtosiphon pisum* alates taken on winter wheat at Centerville research farm, Clay County. Some species present on volunteer cereals at various locations. *R. padi* and *F. olivacea* abundant on subterranean parts of volunteer rye at Highmore, Hyde County. *R. padi* and *R. rufiabdominalis* increased on subterranean parts of volunteer grain in several locations in Clay County. (Kieckhefer).

WHITE GRUBS (*Phyllophaga* spp.) - TEXAS - Locally heavy and damaging small grains in Wilbarger County. (Judd).

GARDEN SYMPHYLAN (*Scutigerella immaculata*) - OHIO - Abundant and feeding on Johnson grass in Scioto County. Economic on corn in several locations in county past season. Det. by R. E. Crabill. (Blair, Oct. 26).

A TERMITE (*Gnathamitermes tubiformans*) - OKLAHOMA - Moderate to heavy on grass and dead weeds on roadsides and in pastures in Grandfield area, Tillman County. Det. by D. E. Howell. (Okla. Coop. Sur.).

#### FRUIT INSECTS

PEACH TREE BORER (*Sanninoidea exitiosa*) - OKLAHOMA - Heavy in peach trees in Bryan County. (Okla. Coop. Sur.).

WOOLLY APPLE APHID (*Eriosoma lanigerum*) - ALABAMA - Caused extreme damage to roots of apple trees in some orchards in Clay and other counties. (Bagby, Owens et al.).

ROSY APPLE APHID (*Anuraphis rosea*) - OHIO - Noted in 2 widely separated orchards, winged adults ovipositing in Franklin County orchard; nymphs and winged forms observed in Ottawa County orchard. (Holdsworth, Rose).

GREEN PEACH APHID (*Myzus persicae*) - IDAHO - Winged and wingless adults abundant in peach orchard at Buhl, Twin Falls County. Prolonged mild, favorable weather probably resulted in heavy egg deposition. (Youtz).

A MUSCID FLY (*Coenosopsia prima*) - FLORIDA - Taken in McPhail trap on grapefruit tree at South Daytona, Volusia County. (Pott, Oct. 26). Det. by G. C. Steyskal. This is new State record. (Fla. Coop. Sur.).

A FRUIT FLY (Anastrepha suspensa) - FLORIDA - Numbers continue downward trend of recent weeks; 3 adults found on sticky board trap in guava tree at Salerno, Martin County, October 25 by M. L. Messec. This is new county record. (Fla. Coop. Sur.).

Citrus Insect Situation in Florida - End of October - CITRUS RUST MITE (Phyllocoptruta oleivora) infested leaves in 78 percent of groves (norm 69 percent); 61 percent economic (norm 42 percent); and infested fruit in 75 percent of groves (norm 71 percent); 57 percent economic (norm 50 percent). Much above average and in high range. Increase expected in most districts in November. All districts high. CITRUS RED MITE (Panonychus citri) infested 28 percent of groves (norm 40 percent); 3 percent economic (norm 21 percent). Much below average and in low range. Increase expected but few will be important. Highest district west. TEXAS CITRUS MITE (Eutetranychus banksi) infested 23 percent of groves (norm 32 percent); 6 percent economic (norm 11 percent). Near low level normal for October. Will appear in more groves in November but only scattered infestations will be important. All districts low. GLOVER SCALE (Lepidosaphes gloverii) infested 66 percent of groves; 9 percent economic. Above average; slight increase expected; only scattered infestations will be important. Highest district south. PURPLE SCALE (Lepidosaphes beckii) infested 63 percent of groves; 4 percent economic. Slightly below average; slight increase expected; all infestations light. Highest district south. CHAFF SCALE (Parlatoria pergandii) infested 54 percent of groves; 6 percent economic. Population below average. Gradual increase to normal moderate level expected. Highest district south. YELLOW SCALE (Aonidiella citrina) infested 54 percent of groves; 13 percent economic. Above normal and will increase slightly. Central district highest with few heavy infestations. WHITEFLIES above normal; adults present in 72 percent of groves; larvae moderate or heavy in 18 percent of groves. Larvae expected to decrease. (W. A. Simanton (Citrus Expt. Sta., Lake Alfred)).

SIX-SPOTTED MITE (Eotetranychus sexmaculatus) - CALIFORNIA - This and Panonychus citri heavy locally on citrus trees in Watsonville, Santa Cruz County. (Cal. Coop. Rpt.).

CITRUS RUST MITE (Phyllocoptruta oleivora) - ARIZONA - Two new infestations found on citrus in Yuma County. (Ariz. Coop. Sur.).

CITRUS FLAT MITE (Brevipalpus lewisi) - ARIZONA - Damage to citrus fruits continues in Yuma County. (Ariz. Coop. Sur.).

CITROPHILUS MEALYBUG (Pseudococcus fragilis) - CALIFORNIA - Medium locally on citrus in Watsonville, Santa Cruz County. (Cal. Coop. Rpt.).

COTTONY-CUSHION SCALE (Icerya purchasi) - ARIZONA - New infestations appearing in citrus trees in some Yuma County areas. (Ariz. Coop. Sur.).

A DRYWOOD TERMITE (Kalotermes approximatus) - NORTH CAROLINA - Taken from walnut tree in Fayetteville, Cumberland County. Det. by T. E. Snyder. (Wright, July 9).

BLACK PECAN APHID (Melanocallis caryaefoliae) - ALABAMA - Continues numerous on pecan leaves throughout central and southern sections; no apparent damage or egg laying noted. (McQueen).

HICKORY SHUCKWORM (Laspeyresia caryana) - ALABAMA - Larvae ranged 1-4 per shuck under pecan trees being harvested in Clay, Lee and other counties throughout State. (Bagby et al.). OKLAHOMA - All pecans remaining on trees heavily infested in Payne County. Moderate on pecan and hickory in Mayes County. (Okla. Coop. Sur.).

PECAN LEAFROLL MITE (Aceria caryae) - OKLAHOMA - Scattered and heavy on pecans in Payne County. (Okla. Coop. Sur.).

WALNUT HUSK FLY (Rhagoletis completa) - CALIFORNIA - Larvae heavy in walnut husks locally in Fremont, Alameda County. (Cal. Coop. Rpt.).

#### TRUCK CROP INSECTS

CABBAGE LOOPER (Trichoplusia ni) - ALABAMA - Increasing on cabbage and collards in home and commercial plantings from Jefferson County southward. (McQueen). FLORIDA - Infested 65.5 percent of 200 commercial cabbage plants at Sanford, Seminole County, with light to heavy damage. Light on celery at same location. (Desin). NEW MEXICO - Some light damage in commercial cabbage fields, Dona Ana County. (Campbell, Harrison). ARIZONA - Increase continues; controls necessary on many lettuce fields in Yuma and Maricopa Counties. (Ariz. Coop. Sur.).

IMPORTED CABBAGEWORM (Pieris rapae) - ALABAMA - Increasing on cabbage and collards in home and commercial plantings from Jefferson County southward. (McQueen).

CABBAGE APHID (Brevicoryne brassicae) - ALABAMA - Increasing on cabbage and collards in home and commercial plantings from Jefferson County southward. (McQueen).

CELERY LEAF TIER (Udea rubigalis) - ARIZONA - Spread continues in Yuma County; noted from Dome to Roll railway underpass east of Wellton. (Ariz. Coop. Sur.).

TOMATO FRUITWORM (Heliothis zea) - ARIZONA - Problem on some lettuce fields; heavy in areas of Yuma and Maricopa Counties. (Ariz. Coop. Sur.).

MELON APHID (Aphis gossypii) - ARIZONA - Continues buildup in lettuce; controls required in many areas of Yuma and Maricopa Counties. (Ariz. Coop. Sur.).

SWEETPOTATO WEEVIL (Cylas formicarius elegantulus) - FLORIDA - Moderately damaging sweetpotato at Monticello. (Miller). NEW MEXICO - Field survey negative in Portales Valley. (Kloepfer).

#### COTTON INSECTS

PINK BOLLWORM (Pectinophora gossypiella) - CALIFORNIA - Male moths continue to be trapped in sex-lure and light traps in the Bard and Brawley areas, Imperial County, and Blythe, Riverside County. Modified Frick trap most effective trap; 17 males taken in trap in Bard. Since October 4 through November 2, total of 70 males trapped in State. So far no females or larvae detected by trapping or auxiliary methods of detection. Source of males unknown as no established infestation known to occur in State. Intensive survey continues. (Cal. Coop. Rpt.). ARIZONA - Total of 147 moths trapped in sex-lure traps in Yuma County; new areas include Gadsden and Parker Valley. Additional adults collected in Salome and Cibola. (Ariz. Coop. Sur.). NEW MEXICO - Extensive green boll checks in southern Dona Ana County show late buildup. (Campbell, Harrison). TEXAS - Widespread and heavy in Reeves and Pecos Counties. (Texas Coop. Rpt.).

BOLLWORM (Heliothis zea) - NEW MEXICO - Damage medium in cotton at Portales, Roosevelt County. (Kloepfer).

BOLL WEEVIL (Anthonomus grandis) - TEXAS - Continues heavy in Stonewall County cotton. (Rummel).

COTTON APHID (Aphis gossypii) - NEW MEXICO - Some honeydew on cotton in southern Dona Ana County. (Campbell, Harrison). ARIZONA - Heavy and discoloring lint and damaging small bolls in many areas of Yuma County. (Ariz. Coop. Sur.).

TWO-SPOTTED SPIDER MITE (Tetranychus telarius) - CALIFORNIA - Continues medium on cotton in Kerman, Fresno County. (Cal. Coop. Rpt.).

FOREST, ORNAMENTAL, AND SHADE TREE INSECTS

EUROPEAN PINE SAWFLY (Neodiprion sertifer) - OHIO - Adults heavy in block of Scotch pine in Portage County. Mass male emergence flight but no egg laying noted. (Kelly, Oct. 15).

FALL CANKERWORM (Alsophila pometaria) - MINNESOTA - Populations down considerably in north suburban area of Minneapolis-St. Paul. Females almost completely absent. (Minn. Ins. Rpt.). WISCONSIN - Females still emerging in Dane County. (Wis. Ins. Sur.). MICHIGAN - Males taken in Livingston County blacklight trap evenings of October 30 and November 2. (Newman).

LINDEN LOOPER (Erannis tiliaria) - MICHIGAN - Seven adults taken October 30 and 27 taken November 2 in Livingston County blacklight trap. (Newman).

BRUCE SPANWORM (Operophtera bruceata) - MICHIGAN - Five adults taken in blacklight trap in Livingston County evening of November 2. (Newman).

ELM LEAF BEETLE (Galerucella xanthomelaena) - KANSAS - Additional new county records include Brown, Atchison, Jefferson, Jackson and Pottawatomie in northeast and Geary, Wabaunsee, Morris and Douglas in east central. (Guldner).

APHIDS - CALIFORNIA - Drepanaphis acerifolii heavy on maples in Yuba City, Sutter County, and Chaitophorus salicicola medium on willows in Merced County. (Cal. Coop. Rpt.). IDAHO - Periphyllus lyropictus alates and apterae abundant on smaller branches and twigs of maple trees at Moscow, Latah County. (Smith). UTAH - Pterocomma smithiae and Lachnus salignus very numerous on willow bark in Lehi-American Fork area, Utah County. (Knowlton). ARIZONA - Macrosiphoniella sanborni heavy and severely damaging chrysanthemums in Phoenix area, Maricopa County. (Ariz. Coop. Sur.). NEBRASKA - Longistigma caryae noted on pin oaks at 2 locations in Lincoln, Lancaster County. (Roselle). OKLAHOMA - L. salignus heavy on elms in Guymon area, Texas County. (Okla. Coop. Sur.). ALABAMA - Poplar leaves containing galls of Pemphigus populitransversus falling from heavily infested isolated trees in Randolph, Clay, Lee and other counties. (McQueen).

ARMORED SCALES - FLORIDA - Adults of Diaspis carueli moderately to severely damaging leaves of juniper in nursery at Miami, Dade County. (Herrmann, Oct. 28). Chrysomphalus aonidum localized and severely damaging sago palm, Pseudaulacaspis pentagona localized and severely damaging stem of Alamanda hendersonii, and Howardia biclavis severely damaging stem of Tabernaemontana sp. in nursery at Tallavast, Manatee County. (Bickner, Oct. 28). VIRGINIA - Fiorinia theae infesting dogwood in Blacksburg, Montgomery County, and Chionaspis furfura local on pyracantha in Washington County. Det. by S. P. Yang and M. Kosztarab. (Isakson, Barnes, Oct. 22). OHIO - Abgrallaspis townsendi recorded on Euonymus alatus in Lucas County. Det. by M. Kosztarab. (Jones, Walker, Aug. 8).

CALIFORNIA OAKWORM (Phryganidia californica) - CALIFORNIA - Pupae heavy; damage excessive this year. (Cal. Coop. Rpt.).

DOGWOOD TWIG BORER (Oberea tripunctata) - VIRGINIA - Larvae infesting dogwood twigs in Stony Creek, Sussex County. (Isakson, Wright, Oct. 26).

ERIOCOCCID SCALES - CALIFORNIA - Eriococcus araucariae locally heavy on araucaria nursery stock in El Cajon, San Diego County. (Cal. Coop. Rpt.). OKLAHOMA - Kermes bougei heavy on ornamental pin oaks in Payne County. (Okla. Coop. Sur.).

A MEALYBUG (Ferrisia virgata) - CALIFORNIA - Medium on chrysanthemum and light on lantana in Brawley Area. Local on preferred hosts within treatment area. (Cal. Coop. Rpt.).

A MARGARODID SCALE (Xylococcus betulae) - VIRGINIA - Under peeling bark of yellow birch at Mabry Mill, Floyd County. Det. by M. Kosztarab. This is a new State record. (Williams).

A WAX SCALE (Ceroplastes ceriferus) - FLORIDA - Adults severely damaging stem and leaves of Podocarpus nagi in nursery at Apopka, Orange County. (Musgrove, Oct. 21.)

SOUTHERN CORN ROOTWORM (Diabrotica undecimpunctata howardi) - ALABAMA - Adults heavy in Willow Creek Country Club area, Tallapoosa County; apparently feeding on azalea leaves and native flowers. (McQueen).

A GERANIUM PLUME MOTH (Platyptilia pica) - CALIFORNIA - Larvae locally heavy on geranium nursery stock in Santa Barbara, Santa Barbara County. (Cal. Coop. Rpt.).

A SPIDER MITE (Eotetranychus frosti) - ARIZONA - Damaging some rose varieties in Yuma area, Yuma County. (Ariz. Coop. Sur.).

#### INSECTS AFFECTING MAN AND ANIMALS

MOSQUITOES - OHIO - Collections in incandescent light trap at Wright-Patterson Air Force Base near Dayton included: Culex pipiens quinquefasciatus, Aedes vexans, Anopheles punctipennis, Psorophora confinnis. (Wilson). OKLAHOMA - Adults continue annoying along creek and river bottoms in Washington County. (Okla. Coop. Sur.). LOUISIANA - Jefferson Parish Department of Mosquito Control larval collections during week ending November 5 included: Anopheles crucians, A. quadrimaculatus, Culex pipiens quinquefasciatus, C. restuans, C. salinarius, Culiseta inornata, Toxorhynchites rutilus septentrionalis, and Uranotaenia sapphirina. Light trap collections increased slightly during period. Culex salinarius predominated and Culiseta inornata increased in light traps. (Stokes).

HOUSE FLY (Musca domestica) - ARKANSAS - Numbers high and problem in dairy buildings in northwest. (Ark. Ins. Sur.). NEW MEXICO - Annoying around homes and other farm buildings in Bernalillo and Tarrant Counties. (Heninger).

HORN FLY (Haematobia irritans) - OKLAHOMA - Ranged 30-50 per head on cows and up to 75 per head on yearlings in Payne County. Averaged 50 per head on cows in Tillman County. (Okla. Coop. Sur.).

BLACK FLIES - UTAH - Annoying horses at Panguitch, Garfield County, and Mt. Carmel, Kane County. (Knowlton).

BLACK BLOW FLY (Phormia regina) - ALABAMA - Larvae causing considerable concern in Russell and Wilcox Counties. (Emrick, McLean, Farquhar).

CATTLE LICE - OKLAHOMA - Moderate on cattle in Choctaw County; first report of season. (Okla. Coop. Sur.).

#### HOUSEHOLD AND STRUCTURAL INSECTS

GERMAN COCKROACH (Blattella germanica) - ARIZONA - Heavy and requiring controls throughout Yuma. (Ariz. Coop. Sur.).

AN EARWIG (Labidura riparia) - ARIZONA - Entering homes in Yuma, Maricopa, Pinal and Pima Counties. (Ariz. Coop. Sur.).

A DEATHWATCH BEETLE (Hadrobregmus carinatus) - DELAWARE - Heavy in structural timbers of home in New Castle County. Collected by D. MacCreary. Det. by W. Connell. (Burbutis).

CLUSTER FLY (Pollenia rudis) - OHIO - Heavy on the outside walls of home at Amherst, Lorain County; large numbers within home. (Treece).

STORED-PRODUCT INSECTS

TOBACCO MOTH (Epehstia cautella) - IOWA - Larvae feeding on hay and entering milk room in Jones County; collected in milk room in Chickasaw County. These are new county records. Larvae collected in Dubuque County. (Iowa Ins. Inf., Oct. 28).

GRANARY WEEVIL (Sitophilus granarius) - MARYLAND - Adults collected from newly harvested corn at Street, Harford County. (U. Md., Ent. Dept.).

BENEFICIAL INSECTS

PREDATORS - ILLINOIS - Nabis spp. (damselfly bugs) numerous with occasional lady beetle adults and larvae, Chrysopa oculata and syrphid fly larvae noted in alfalfa in southeast. (Ill. Ins. Rpt.). OKLAHOMA - Predators increasing in wheat in southwest despite lack of prey. Hippodamia convergens, Chrysopa spp. (green lacewings) and Nabis spp. common; average 1 per linear foot in many areas. (Okla. Coop. Sur.). NEW MEXICO - Lacewing adults heavy in cotton in Lea County. (Campbell, Harrison).

CORRECTIONS

CEIR 15(31): 871 line 3 - NEW HAMPSHIRE - Dactynotus rudbeckiae should read Aphis rociadea deforming delphiniums ... . Det. by L. M. Russell.

CEIR 15(44): 1223 - LESSER PEACH TREE BORER (Synathedon pictipes) should read Synanthedon pictipes.

CEIR 15(45): 1240 - CORN LEAF APHID (Rhopalosiphum maidis) should read (Rhopalosiphum maidis).

CEIR 15(45): 1246 - NANTUCKET PINE TIP MOTH (Rhyacionia frustrana) should read Rhyacionia frustrana.

CEIR 15(45): 1251 - STATUS OF THE SCREW-WORM (Cochlimoyia hominivorax) ... should read (Cochliomyia hominivorax)... .



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

During the period October 31 - November 6 a total of 28 cases was reported in the Southwestern Eradication Area by States and counties as follows: TEXAS - Presidio, Uvalde and Val Verde 2 each, Atascosa, De Witt, San Patricio, Zapata, Refugio, Webb, Duval, Jim Wells and Terrell 1 each; NEW MEXICO - Grant 1; ARIZONA - Maricopa, Pinal and Pima 3 each, Yuma and Gila 1 each; CALIFORNIA - San Diego 1. The Republic of Mexico reported 108 cases: Sonora 19, Coahuila 13, Chihuahua 35, Nuevo Leon 8, Tamaulipas 21, Territorio sur de Baja California 12. Sterile screw-worm flies released: Texas 27,538,250, New Mexico 2,400,000, Arizona 18,212,000, California 100,000, Mexico 52,458,000.

Year	Positive Cases		Negative Cases		Ratio of Positive Cases to 100 Cases Negative	
	Current	Cumulative	Current	Cumulative	Current	Cumulative
1963	361	5886	224	6501	161.16	90.53
1964	23	187	293	5561	7.84	3.36
1965	28	892	112	4350	25.00	20.50

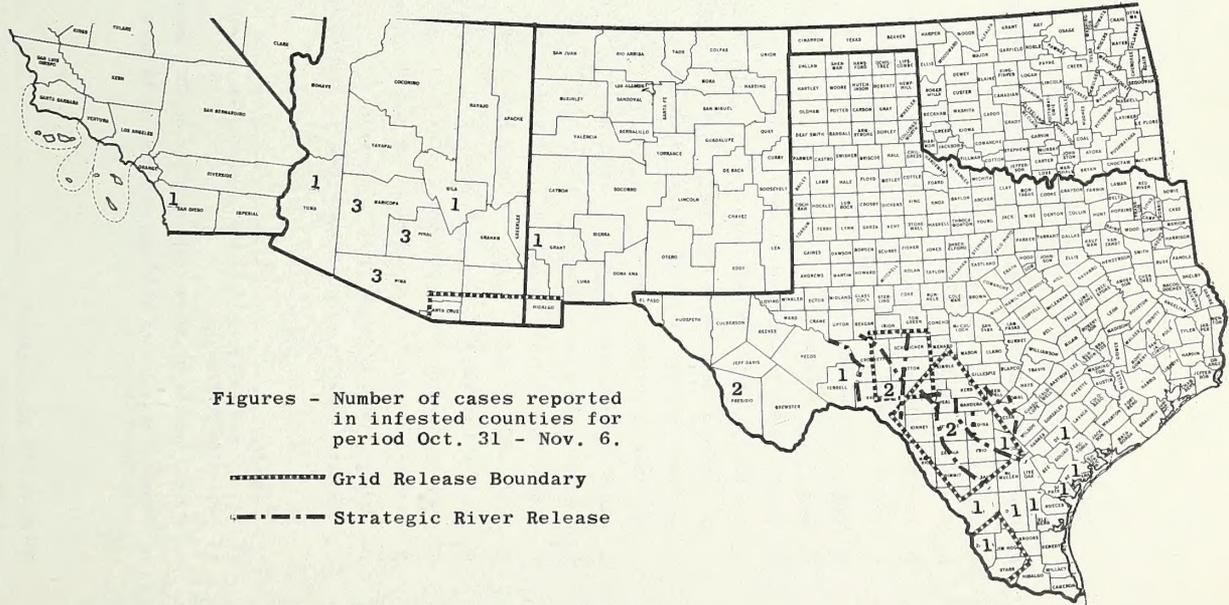
Table 1. Comparison of specimens reported during corresponding week in 1963 and 1964 in Southwestern Eradication Area. (1965 area figures include cases reported from Arizona and/or California; 1964 figures reflect those from the 5-State area).

Year	Positive Cases		Negative Cases		Ratio of Positive Cases to 100 Cases Negative	
	Current	Cumulative	Current	Cumulative	Current	Cumulative
1964	158	3720	67	1778	235.82	209.22
1965	130	4957	35	1996	371.42	248.79

Table 2. Comparison of specimens reported during corresponding week and in a corresponding area in 1964 in the United States-Mexico Barrier Zone.\*

Feasibility Survey - During this period 124 cases were identified in Mexico south of the Barrier Zone, as follows: Yucatan 1, Durango 31, Guerrero 24, Nayarit 4, Colima 1, San Luis Potosi 3, Oaxaca 1, Michoacan 17, Puebla 2, Veracruz 18, Jalisco 14, Tabasco 3, Morelos 5, Guanajuato 0.

\* Barrier Zone - Area in which screw-worm eradication operations are being carried out in an effort to prevent establishment of self-sustaining screw-worm populations in the United States. (Anim. Health Div.).



ESTIMATED LOSSES AND PRODUCTION COSTS ATTRIBUTED TO INSECTS AND RELATED ARTHROPODS

IN Oklahoma DURING 1964  
(State or District) (Year)

ATTACKING Beef cattle  
(Commodity or Crop)

ATTACKING Dairy cattle  
(Commodity or Crop)

A. Pest or pest complex: Flies, ticks, lice, cattle grubs

B. Number of head	a produced (From CRS)	No.	3,854,000
C. Average yield per head	a (From CRS)	Units/	365 lbs.*
D. Price <sup>b</sup> per unit (cwt.)	c (From CRS)	\$/	19.80
E. Head	a needing control	No.	3,507,140
F. Head	a treated	No.	2,069,213
G. Reduction due to not treating where needed:			
H. Loss in yield, percent		%	24
I. Loss in yield, units per head	a, C x H	Units/	.876 cwt.
J. Loss in yield, \$ per head	a, D x I	\$/	17.34
K. Loss in quality, \$ per head	a	\$/	-----
L. Yield loss for all head	a, (E-F) x I	Units	1,259,624 cwt.
M. Control cost, \$ per head	a	\$/	1.66
N. Control cost for all head	a, F x M	\$	3,434,893.58
O. Yield loss for all head	a, (E-F) x J	\$	24,933,654.18
P. Quality loss for all head	a, (E-F) x K	\$	-----
Q. Combined control cost and losses, N + O + P		\$	28,368,547.76
R. Percent loss due to each insect in the complex: <u>Horn fly 41, cattle grubs 20, lice 14, ticks 12, horse flies 5, others 8.</u>			

Comment: \* Based on 1963 averages - 1964 not available.

A. Pest or pest complex: Flies, cattle grubs, lice, ticks

B. Number of lbs.	a produced (From CRS)	No.	1,303,000.00
C. Average yield per head	a (From CRS)	Units/	6,550 lbs.
D. Price <sup>b</sup> per unit (cwt.)	c (From CRS)	\$/	4.64
E. Head	a needing control	No.	178,640
F. Head	a treated	No.	145,949
G. Reduction due to not treating where needed:			
H. Loss in yield, percent		%	26
I. Loss in yield, units per head	a, C x H	Units/	17.03 cwt.
J. Loss in yield, \$ per head	a, D x I	\$/	79.02
K. Loss in quality, \$ per head	a	\$/	-----
L. Yield loss for all head	a, (E-F) x I	Units	556,727.73 cwt.
M. Control cost, \$ per head	a	\$/	3.16
N. Control cost for all head	a, F x M	\$	461,198.84
O. Yield loss for all head	a, (E-F) x J	\$	2,583,242.82
P. Quality loss for all head	a, (E-F) x K	\$	-----
Q. Combined control cost and losses, N + O + P		\$	3,044,441.66
R. Percent loss due to each insect in the complex: <u>Horn fly 51, lice 13, cattle grubs 12, stable fly 7, horse flies 4, ticks 4, house fly 3, others 5.</u>			

Comment:

- a. Acres, head of cattle or other producing units used by Crop Reporting Service.
- b. Season average price per unit as given by CRS (describe basis).
- c. Bushels, boxes, tons or other marketing units used by CRS; show which in ( ).

- a. Acres, head of cattle or other producing units used by Crop Reporting Service.
- b. Season average price per unit as given by CRS (describe basis).
- c. Bushels, boxes, tons or other marketing units used by CRS; show which in ( ).



UNITED STATES DEPARTMENT OF AGRICULTURE  
HYATTSVILLE, MD. 20781

POSTAGE AND FEES PAID  
U.S. DEPARTMENT OF AGRICULTURE

OFFICIAL BUSINESS

UN00034 ALO3001BB2PI 4SB 0001  
USDA NAT AGR LIB BELTSVILLE  
BR  
PLANT INDUS STA  
BELTSVILLE MD 20705

