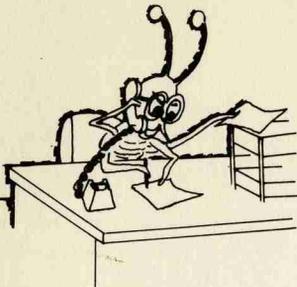


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JAN 7 1972

ENTOMOLOGY DEPT.



# Entomology

January 7, 1972

TO: County Extension Chairmen and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist  
 SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

FOREST AND SHADE TREES

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - NORTH CAROLINA -

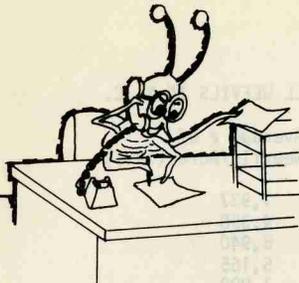
During December, 1971, an outbreak was detected and evaluated on the Cherokee Indian Reservation. Brood density average 608 insects per ft.<sup>2</sup> of bark surface. About 1,827 infested trees were found on the 44,610 acres surveyed. Active spots are most numerous near the town of Cherokee. Infestations occur in pitch pine, shortleaf pine and Virginia pine. Increased timber loss will occur unless the population is reduced before spring. (Forest Service, Southeastern Area, State and Private Forestry Forest Pest Management).



FEDERAL AND STATE PLANT PROTECTION PROGRAMS

IMPORTED FIRE ANT (Solenopsis saevissima richteri) - NORTH  
CAROLINA - Extension of infestations have been located in the Leland,  
Maco and Bolivia area of Brunswick County. (Bowen, Plant Protection  
Programs).

Recd. 1-14-72



# Entomology

January 14, 1972

TO: County Extension Chairmen and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

COTTON

BOLL WEEVIL (Anthonomus grandis) - NORTH CAROLINA - Fall  
 litter samples indicate a much higher number of hibernating weevils than in 1970. The number of locations sampled (6 sq. yds. sampled per location) ranged from 5 to 8 per county. Samples were taken December 7-15, 1971. The table summarizes the results for counties sampled in N. C. All samples taken and evaluated by U.S.D.A. personnel of the Agricultural Research Service.



FALL WOODS TRASH SURVEY FOR LIVE HIBERNATING BOLL WEEVILS IN N. C.

County	Average # of Weevils/Acre (1970)	Average # of Weevils/Acre (1971)
Scotland	968	1,937
Union	2,905	4,358
Cleveland	3,228	6,940
Mecklenburg	1,614	5,165
Nash	202	1,009
Northampton	230	1,960
Halifax	706	1,412
Edgecombe	1,614	2,652

TOBACCO

TOBACCO MOTH (Ephestia elutella) - NORTH CAROLINA - Preliminary results of a loss survey reveal heavy losses to stored flue-cured tobacco in some counties of the central Coastal Plain.

ESTIMATE OF LOSSES TO STORED TOBACCO BY

TOBACCO MOTH (Ephestia elutella) in 1971<sup>1</sup>

County	% of Growers with Tobacco Moth Damage	Estimated lbs. Lost from Stored	
		1970 Crop	1971 Crop
Onslow	1	8,000	2,000
Scotland	0	0	0
Cumberland	1	1,000	2,000
Vance	5	5,000	0
Washington	10-15	3,000	unknown
Duplin	15	40,000	40,000
Edgecombe	20	75,000	75,000
Greene	65-70	60,000	60,000

<sup>1</sup> Estimates given by Extension County Agents.

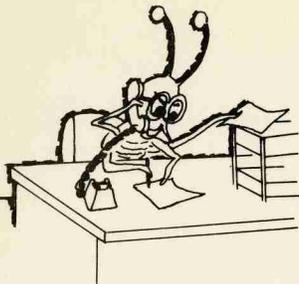
dh/265



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# Entomology

February 4, 1972

TO: County Extension Chairmen and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist

TOBACCO

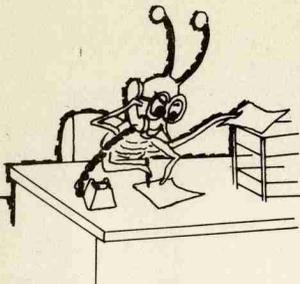
TOBACCO HORNWORM (Manduca sexta and Manduca quinque maculata) -  
 NORTH CAROLINA - Hornworm population increased to highest in the 5  
 previous years on our 350,000 acres of flue cured tobacco. The cost  
 of control increased from \$50,000 in 1970 to \$500,000 in 1971. Losses  
 also increased drastically, from \$18,750 in 1970 to \$87,500 in 1971.  
 This buildup is attributed to a poor job of stalk destruction imme-  
 diately following harvest for the past 3 years. (Robertson, Ext.).

PEANUTS

SOUTHERN CORN ROOTWORM (Diabrotica undecimpunctata howardi) -  
 NORTH CAROLINA - Cost of control for rootworm larvae on our 168,000  
 acres of peanuts ranged from \$75,000 to \$100,000 in 1971.

dh/285





RECEIVED

FEB 11 1972

ENTOMOLOGY DEPT.

# Entomology

February 11, 1972

TO: County Extension Chairmen and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *TNH*  
 SUBJECT: Insect Survey Report

## NORTH CAROLINA COOPERATIVE ECONOMIC INSECT AND SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist

### COTTON

About 40,000 acres were managed under Cotton Insect Scouting Programs during 1971 in North Carolina. Total cost of control (\$23.20/acre) averaged about \$4.00 per acre less than the 135,000 acres not in a scouting program. Acres in a scouting program average 600 lbs. of lint per acre, about 240 lbs. per acre higher than the average from cotton not in a community insect control program. Boll weevil control constituted about 80% of the cost.

### PEANUTS

TWOSPOTTED SPIDER MITE (Tetranychus urticae) - Spider mites pose a serious problem for the peanut grower especially in the Northampton County area. About \$200,000 was lost to this pest on 20,000 acres. Resistance to miticides was pronounced during 1971.

15/dh



RECEIVED

FEB 18 1972

ENTOMOLOGY DEPT.

## Entomology

February 18, 1972

TO: County Extension Chairmen and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

## CORN

EUROPEAN CORN BORER (Ostrinia nubilalis) - NORTH CAROLINA -  
 Spot checks in 75 fields throughout Wayne, Sampson, Johnston and Wilson Counties reveal 18% of the fields have had no stalk destruction to date. Field population in fields with standing stalks average about 30 borers per 100 stalks (25 fields sampled). No borers were found in 10 fields with good stalk destruction. Spring plowing will be very important in reducing this overwintering population. (Hunt, Ext.).

## TOBACCO

TOBACCO MOTH (Ephestia elutella) - NORTH CAROLINA - About 31% of the farmers storing tobacco in 1971 had damaging tobacco moth infestations. Total lbs. infested of 1970 crop plus 1971 crop ranged from 0 in Scotland County to 6.5 million lbs. in Wilson County. Wilson County farmers had heavy damage prior to winter storage. A more complete report will follow when information is fully evaluated. Some very important counties have not responded to the survey yet. (Estimates supplied by Extension agents.)



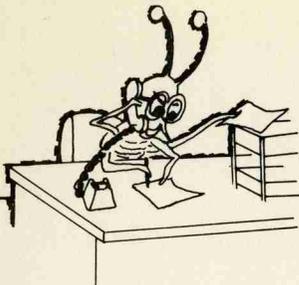
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FEB 25 1972

ENTOMOLOGY DEPT.

# Entomology

February 25, 1972



TO: County Extension Chairmen and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

SOYBEANS

SOYBEAN STEM BORER (Dectes texanus) - NORTH CAROLINA - Economic damage was reported for the first time from a 20 acre Bladen County soybean field and a 10 acre Johnston County field. Previous to these reports damage was largely restricted to Washington, Beaufort, Hyde and Tyrrell Counties. (Hunt, Clapp, Ext.).

FOREST AND SHADE TREES

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - A survey conducted in early January over 220,000 acres (Uwharrie National Forest) in Montgomery and Randolph Counties revealed an estimated 2,100 actively infested trees. Brood densities average 275 insects per sq. ft. of bark surface. Heaviest infestations occur in the northern section of the forest. (Div. of Forest Pest Control, U. S. Forest Service).





MAR 10 1972

# entomology

March 10, 1972

TO: County Extension Chairmen and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT AND DETECTION REPORT

This report compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

TOBACCO

TOBACCO MOTH (*Ephestia elutella*) - NORTH CAROLINA - Loss of farm stored flue cured tobacco to the tobacco moth is centered in the Wayne, Wilson, Lenoir, Pitt, Greene and Edgecombe County area. Average price of flue cured tobacco was 78 cents per lb. in 1971.

POUNDS LOST DUE TO TOBACCO MOTH<sup>1</sup>

County	Estimate of Lbs. Discarded in 1971
Onslow	1282
Scotland	unknown
Cumberland	384

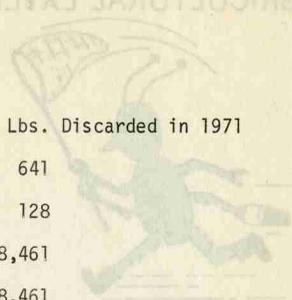
<sup>1</sup>Estimates were given by agricultural extension agents.

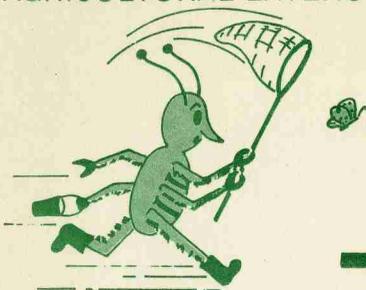


County	Estimate of Lbs. Discarded in 1971
Vance	641
Washington	128
Duplin	38,461
Edgecombe	38,461
Greene	17,620
Columbus	64,102
Johnston	89,743
Nash	35,000
Martin	unknown
Halifax	5,128
Wilson	12,820
Hoke	unknown
Craven	4,596
Wake	2,564
Wayne	32,051
Harnett	unknown
Carteret	2,243
Lee	1,282
Pitt	26,641
Lenoir	358,973
Bladen	unknown

I am presently preparing a complete report of damage by this insect which will be available by March 17, 1972.

285/dh





# entomology

March 24, 1972

TO: County Extension Chairmen and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *TNH*  
 SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

DECIDUOUS FRUITS AND NUTS

BLUEBERRY BUD MITE (Acalitus vaccinii) - NORTH CAROLINA -

Generally, bud mite infestations are lighter than in winter of 1970-71. However, damaging infestations have been observed in some untreated Pender and Bladen County blueberry fields. Infestations in the untreated fields checked ranged from 60% to 90% of the terminal buds. Good control has been achieved where recommended procedures have been carried out. (Sorensen, Ext.).





# entomology

March 29, 1972

TO: County Extension Chairmen and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*

SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
Raleigh, North Carolina

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MAR 30 1972

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## POTATOES

SPRING ROSE BEETLE (Strigoderma arboricola) - NORTH CAROLINA -

A general survey in sweet potato packing sheds revealed that less than 5% of the potatoes observed had white grub damage. Damaged potatoes were observed from Sampson, Johnston and Wilson Counties. (Div. of Ent., N.C.D.A.).

## FOREST AND SHADE TREES

EASTERN TENT CATERPILLAR (Malacosoma americanum) - NORTH CAROLINA -

First observation of webbing (about 1 in. sq.) in Wake County occurred March 16 in wild cherry. Observations reveal activity over entire Coastal Plain. Webs to 5 in. sq. were observed in Columbus, Bladen and Brunswick Counties. First report of eastern tent caterpillar in 1971 occurred April 3 in Wayne County. (Hunt, Ext.).





# entomology

April 7, 1972

TO: County Extension Chairmen and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

## NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

### FOREST AND SHADE TREES

EASTERN TENT CATERpillARS (Malacosoma americanum) - NORTH CAROLINA -  
 Observations and reports reveal activity over mid and southern Coastal Plain and Piedmont. First report of webbing (about 1 sq. in.) occurred in Wake County March 16 in wild cherry. Webbing was observed as far west as Rutherford, McDowell, and Wilkes Counties in wild cherry trees. Webs averaged about 2 in. sq. (March 30) in western Piedmont and webs to 5 in. sq. were observed (March 28) in Columbus, Bladen, and Brunswick Counties. Hatching above 2000 ft. elevation is usually 2 to 3 weeks later than in Piedmont. Hatching dates of this insect are important as accurate indicators of gypsy moth hatching dates. (Animal and Plant Health Services, U.S.D.A., Div. of Ent., N.C.D.A.)

NOTE: REMEMBER, REPORTS OF INSECT ACTIVITIES IN YOUR AREA OF N. C. IS THE BASIS OF MAINTAINING SURVEILLANCE ON OUR ECONOMICALLY IMPORTANT INSECTS. REPORTS WILL BE MOST APPRECIATED BY PERSONS WARNED OF POSSIBLE DAMAGE TO THEIR PROPERTY.



RECEIVED INSECT SURVEY NOTES

APR 17 1972

ENTOMOLOGY DEPT.

entomology

April 14, 1972



TO: Agricultural Extension Agents and Other Interested Persons
FROM: Thomas N. Hunt, Survey Entomologist
SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report compiled by: Thomas N. Hunt, Survey Entomologist
Raleigh, North Carolina

SMALL GRAINS

APHIDAE (Many species) - NORTH CAROLINA - Spot checks in 30 fields over Piedmont indicate scattered populations of aphids. Infested spots average less than 2 sq. ft. in size. No yellowing was observed due to aphid attack. (Hunt, Ext.).

FOREST AND SHADE TREES

EASTERN TENT CATERPILLAR (malacosoma americanum) - NORTH CAROLINA - Webbing (2 in. sq.) was observed April 12 in Burke, Buncombe, and Haywood Counties. All webbing occurred in wild cherry trees approximately 2500 ft. elevation or less. Hatching had not begun in Watauga County area. (Hunt, Ext.).

HOUSEHOLD AND STRUCTURES

EASTERN SUBTERRANEAN TERMITE (Reticulitermes flavipes) - NORTH CAROLINA - Swarming was reported March 28 from Piedmont and Coastal Plain Counties. Four reports were received from homeowners.





entomology

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APR 24 1972

April 21, 1972

ENTOMOLOGY DEPT.

TO: Agricultural Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *TNH*  
 SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

COTTON

BOLL WEEVIL (Anthonomus grandis) - NORTH CAROLINA - Spring litter samples indicate a much higher number of surviving weevils than in spring of 1971. The number of locations sampled (3 samples of 2 sq. yd. each per location) ranged from 5 to 8 per county. Samples were taken March 14 - April 3, 1972. The table summarizes the results for counties sampled in N. C. All samples taken and evaluated by U.S.D.A. personnel of the Entomology Research Division and the Animal and Plant Health Inspection Service.

dh/285



SUMMARY OF WOOD TRASH SURVEY FOR LIVE HIBERNATING BOLL WEEVILS IN NORTH CAROLINA

County	# of Locations	Avg. # of weevils/acre (Fall '70)	Avg. # of weevils/acre (Spring '71)	1971 % Survival	Avg. # of weevils/acre (Fall '71)	Avg. # of weevils/acre (Spring '72)	1972 % Survival
Scotland	5	968	968	100	1937	968	50.0
Union	5	2905	436	15	4358	1453	33.3
Cleveland	5	3228	0	0	6940	3228	46.5
Mecklenburg	5	1614	323	20	5165	484	9.4
Nash	8	202	100	50	1009	202	20.0
Northampton	7	230	0	0	1960	0	0
Halifax	8	706	202	28.6	1412	102	7.2
Edgecombe	7	1614	0	0	2652	576	21.7



NORTH CAROLINA COOPERATIVE ECONOMIC INSECTICIDE AND PESTICIDE SERVICE

GENERAL SURVEY NOTES



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MAY 8 1972

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entomology

May 5, 1972

TO: Agricultural Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T. N. H.*  
 SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

SMALL GRAIN

CLOVER STEM BORER (Languria mozardi) - NORTH CAROLINA - Sweeping revealed 1 clover stem borer per sweep in a 20 acre Robeson County small grain field. Very little damage was observed. (Lowery, Animal and Plant Inspection Service, APHIS).

DECIDUOUS FRUITS AND NUTS

SPIDER MITES (Tetranychus sp.) - NORTH CAROLINA - Examination of brown and dead foliage revealed heavy spider mite infestations on strawberries in Pender and Columbus Counties. About 10% of the plants scattered over approximately 47 acres were damaged. The variety Earlibelle was heaviest damaged in the Columbus County field. (Spaulding, Ext., Honeycutt, Ext.).

FOREST AND SHADE TREES

SPITTLEBUG, Prob. PINE SPITTLEBUG (Aphrophora parallela) - NORTH CAROLINA - About 10 acres of loblolly pine infested in Davie County with



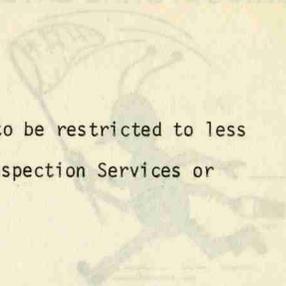
to 12 spittle masses per year. Infestation seemed to be restricted to less vigorous trees. (Bowers, Animal and Plant Health Inspection Services or APHIS).

LIGHT TRAP COLLECTIONS

EUROPEAN CORN BORER (Ostrinia nubilalis) - NORTH CAROLINA -

Collection of corn borer moths began April 18 or 19 in Carteret with 2 moths collected. Tyrrell County reported 3 moths April 30 and 8 moths were found in the April 29-30 Carteret County collection. The May 2-3 Tyrrell County collection contained 7 moths. Irish potato farmers should be alerted in areas with a history of damage.

dh/308





# entomology

May 12, 1972

TO: Agricultural Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist *T. N. H.*

SUBJECT: Insect Survey Report

RECEIVED  
MAY 12 1972  
ENTOMOLOGY DEPT

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
Raleigh, North Carolina

**TOBACCO**

VEGETABLE WEEVIL (Listroderes costirostris obliquus) - NORTH CAROLINA -

Adults attacking tobacco plants in the beds and newly set tobacco in the Harnett, Robeson and Bladen Counties area. Damage heavy in some plantings. (Robertson, Ext., Lloyd, Ext.).

**POTATOES**

COLORADO POTATO BEETLE (Leptinotarsa decemlineata) - NORTH CAROLINA -

Adults have begun laying eggs in the northeastern counties on Irish potatoes. First observation of egg laying was near Columbia, Tyrrell County on May 4. Farmers should check individual fields for population buildup. (Sorensen, Ext.).

**DECIDUOUS FRUITS AND NUTS**

PERIODICAL CICADA (Magicalcada septendecim or tredecim) - NORTH

CAROLINA - Reports and collection of adults were received from the Chatham, Davidson, and Randolph Counties. Egg laying on twigs of shade and fruit trees



has begun. The Davidson and Randolph County reports indicated heavy emergence is in progress. Agricultural agents of the Central Piedmont can expect intense concern from homeowners, if heavy egg laying occurs in their area. (Jenkins, Ext.; Scott, Ext.; Bowers, APHIS).

#### ORNAMENTALS

BAGWORMS (Thyridopteryx ephemeraeformis) - NORTH CAROLINA -

Hatching has begun over Coastal Plain, Piedmont and lower elevation of Mountains on juniper and arborvitae. This is the time fo year to control these insects, not next fall when the bags are seen. (Hunt, Ext.).

#### FOREST AND SHADE TREES

NANTUCKET TIP MOTH (Rhyacionia frustrana) - NORTH CAROLINA - Report of scattered mortality on loblolly pine in Cleveland County. (Ivester, Forest Pest Newsletter, N. C. Forest Service).

dh/305





# entomology

May 19, 1972

RECEIVED

TO: Agricultural Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist T. N. H.

MAY 19 1972

SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
Raleigh, North Carolina

CORN

BILLBUG (prob. Sphenophorus callosus) - NORTH CAROLINA -

Adults damaging seedling corn over southern Coastal Plain in spots.

Replanting has been reported from Robeson County area. (Lowry, APHIS, Hunt, Ext.).

COTTON

BOLL WEEVIL (Anthonomus grandis) - NORTH CAROLINA - First

catches of hibernating weevils in Johnston County occurred April 21-24 and averaged 1 per sex lure trap. Catch for week of May 10-17 was approximately 35 weevils in the 12 Johnston County traps averaging almost 3 per trap. (Bradley, Dept. of Ent., N.C.S.U.).



SMALL GRAIN

ARMYWORM (prob. Pseudaletia unipuncta) - NORTH CAROLINA - Scattered infestations occurring in small grain fields near Elizabeth City, Pasquotank County. Chemical controls have been carried out in some fields. (Ogle, Hercules).

TOBACCO

BUDWORM (Heliothis virescens) - NORTH CAROLINA - Infestations to 80% of the plants occurring in Columbus County area. Infestations are proportional to the age of the plants. Fields with plants buttoning or near buttoning are likely to have 25+% of the tobacco plants infested. (Pleasants, Dept. of Ent., N.C.S.U.; Ellis, Ext.; Pittard, Union Carbide).

SMALL FRUITS

SPIDER MITES (Tetranychids) - NORTH CAROLINA - Damage to strawberry foliage still occurring over Coastal Plains and Piedmont. Moderate to heavy damage reported from Gaston County. (Sproles, Ext.).

BLUEBERRY BUD MITE (Acalitus vaccinii) - NORTH CAROLINA - Generally, 1972 infestation levels are lower than 1971 levels in Pender, Bladen and Duplin Counties. A survey was conducted in 1971 and repeated in 1972 to appraise bud mite damage. The following table compares data from the 2 years.

SUMMARY OF BLUEBERRY BUD MITE DAMAGE SURVEY TO THE WOLCOTT VARIETY<sup>1</sup>

County	% FB with 3 or less pot. berries		% FB with no pot. berries		Ratio pot. berries to opt. berries	
	1971	1972	1971	1972	1971	1972
Pender	72.0	57.9	38.6	29.6	1:2.7	1:2.1
Bladen	57.8	48.5	32.5	21.5	1:2.1	1:1.7
Duplin	54.8	40.3	20.9	7.5	1:1.9	1:1.4

<sup>1</sup>Three fields were sampled per county

FB = Fruit Buds

pot. = potential

opt. = optimum

FOREST AND SHADE TREES

FOREST TENT CATERPILLAR (Malacosoma disstria Hbn.) - NORTH CAROLINA -  
Tupelo, black gum and some maple completely defoliated over much of a  
3700 acre tract and a 3800 acre tract near the Roanoke River in Bertie  
County.

Fourth instar larvae occurred in the Cary area of Wake County on  
May 1. (Coker, Ga. Pacific; Drooz, U.S.F.S.).

DECIDUOUS FRUITS AND NUTS

PERIODICAL AND CASSIN'S CICADA, commonly called locust (Magicicada  
sp.) - NORTH CAROLINA - Three or 4 species are emerging over the  
Piedmont and Coastal Plains. There have been no reports from the  
Mountains to date. Reports of heavy emergence were received this week  
from Bladen, Halifax, Chowan, and Orange Counties. All 4 species are  
similar with red eyes, shiny black bodies and large transparent wings.  
There is variation in size; however. These insects will not damage  
field crops (they are not true locust); however, the twigs of shrubs,  
fruit, and shade trees may be damaged by the female during egg laying.  
When in large numbers, their song may also be irritating. (Phillips,  
Ext.; Willis, APHIS; Pierce, Ext.).

dh/305



# entomology

May 26, 1972

RECEIVED

TO: Agricultural Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist J.N.H.

MAY 29 1972

SUBJECT: Insect Survey Report

ENTO DEPT.

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
Raleigh, North Carolina

CORN

SOUTHERN CORN ROOTWORM (Diabrotica undecimpunctata howardi) -

NORTH CAROLINA - Larval damage reported from Piedmont and Coastal Plain. Heaviest loss was in a Rowan County field which received 50% damage with approximately 25% of the corn seedlings killed. Light damage is also showing up in Tyrrell County area. (Lemmons, Ext.; Van Duyn, Ext.).

BILLBUGS (Prob. Sphenophorus callosus) - NORTH CAROLINA - Spot checks in Wilson, Wayne, Tyrrell and Sampson Counties indicate most damage to corn is sub-economic. However, this is not the case in all fields, especially fields with a long history of corn. (Lee, APHIS; Hunt, Ext.; Van Duyn, Ext.).



COTTON

SPIDER MITES (Prob. Tetranychus urticae) - NORTH CAROLINA - Cool wet weather seems to have held populations of mites in check this spring on cotton in the Northampton County area. However, light (1-5 mites per leaf) infestations do exist in some fields and should be watched closely. (Ogle, Hercules; Robertson, Ext.).

DECIDUOUS FRUITS AND NUTS

PERIODICAL CICADA (Magicicada sp.) - NORTH CAROLINA - Reports continue to be received from entire Piedmont and Coastal Plains. Damage has begun in areas of earliest emergence. New counties reporting are Nash, Franklin, Vance, Wilson, and Perquimans. (Griffin, Simmons, Farrior, Dean, and Shackelford, Extension; Bowers, APHS).

FOREST AND SHADE TREES

PROB. PINE SPITTLEBUG (Aphrophora parallela) - NORTH CAROLINA - Widespread infestation of nymphs on loblolly pine (some masses on Va. pine) over eastern Piedmont. Infested counties where observed include Wake, Harnett, Johnston, Franklin, Granville, Durham, Chatham, Orange, and Alamance. Nymphs concentrated on trees 3 to 40 feet tall. Infestations range from 0 to 30 spittle masses per tree.

The N. C. Forest Service also reports that Va. pine is infested in Burke County. (Maxwell, N.C.F.S.; Hunt, Ext.).

ORNAMENTALS (XMAS TREES)

PROB. SPRUCE SPIDER MITES (Oligonychus ununguis) - NORTH CAROLINA - Spider mite damage in most commercial Fraser fir Xmas tree plantations in mountains. Injury ranges from slight discoloration to severe yellowing. Growers should check undamaged trees frequently as the population buildup

is often very quick (1 generation takes about 10 days). (Farrier, Dept. of Entomology, N.C.S.U.).

LIGHT TRAP COLLECTION

EUROPEAN CORN BORER (Ostrinia nubilalis) - NORTH CAROLINA - Catches have decreased in Carteret and Tyrrell County indicating hibernating larvae have emerged and 1st. generation larvae are feeding. Tyrrell County catches decreased from a high of 19 on May 8 to 3 on May 19.

The Carteret County trap has caught only 2 moths (May 16) since May 9.

CORN EARWORMS (Heliothis zea) - NORTH CAROLINA - Three corn earworms have been caught to date, 2 in Carteret, 1 in Tyrrell. Egg laying has begun in some Coastal Plain corn fields. Larvae often feed in whorl of young corn.

LATE NOTE:

The cool spring we are experiencing is conducive to heavy wireworm and flea beetle damage. Frequent spot checks in tobacco and corn may catch an infestation while there is time to eliminate heavy damage. Spot checks should involve root observation of any suspicious plant.



JUN 5 1972

# entomology

June 2, 1972

TO: Agricultural Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

## NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

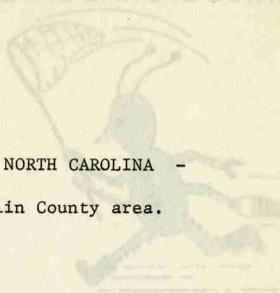
This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

### CORN

ARMYWORM (*Pseudaletia unipuncta*) - NORTH CAROLINA - Larvae damaging sod planted corn in Iredell and Surry County area. Damage to 30% was observed in 3 or 4 fields. Heaviest populations seemed to occur in corn following fescue or rye. Damage to small grain also observed in a Camden County field. Larvae moving from small grain to corn in that area. (Franklin, Ellis, Van Duyn, Ext.).

WIREWORMS (Prob. *Melanotus communis*) - NORTH CAROLINA - Damage showing up over Coastal Plain. Stand loss to 30% observed in a 20 acre Lenoir County field near Kinston. Five of 10 fields observed were damaged but losses generally less than 10% of the plants. Approximately 20% stand loss observed in a 10-15 acre Tyrrell County field. (Van Duyn, Hunt, Ext.).





SOYBEANS

MEXICAN BEAN BEETLES (Epilachna varivestis) - NORTH CAROLINA -

Adults and larvae feeding on young soybeans in Franklin County area.

Damage generally subeconomic at present time.

FEDERAL AND STATE PLANT PROTECTION PROGRAMS

JAPANESE BEETLES (Popillia japonica) - NORTH CAROLINA - First

adults of season observed May 28 near Elizabethtown, Bladen County.

Approximately 2 per plant was observed on rose and flowering plum bushes.

(Kornegay, APHIS).

dh/305

... (Epilachna varivestis) - NORTH CAROLINA - larvae damaging  
 and planted corn in Lenoir and Swain County areas. Damage to corn  
 observed in 3 or 4 fields. Heaviest populations seemed to occur in corn  
 following losses in 1951. Damage to small grains also observed in a number  
 of fields. Larvae feeding on small grains in corn in that area.  
 (Franklin, Eliza, Van Dyke, Ext.)  
 ... (Popillia japonica) - NORTH CAROLINA - Damage  
 showing up over Cornhill Station. Second loss to JBE observed in a 10 acre field  
 Cornhill field near Kinston. Type of 10 plants observed were damaged but losses  
 generally less than 10% of the plants. Approximately 100 worms loss observed  
 in a 10-12 acre Tyrrell County field. (Van Dyke, Korne, Ext.)





JUN 12 1972

# entomology

June 9, 1972

TO: Agricultural Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *TNH*  
 SUBJECT: Insect Survey Report

## NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

### CORN

WIREWORMS (Melanotus communis) - NORTH CAROLINA - Reports of wireworms indicate damage becoming apparent in scattered Coastal Plain corn fields. Spot checks in Franklin, Edgecombe, Nash and Wilson Counties indicate heavy stand loss (10+% of the plants) has occurred in about 1% of the fields inspected in the area.

STALK BORER (Prob. Papaipema nebris) - NORTH CAROLINA - Ten acres of a 100 acre no-till corn field near Yadkinville, Yadkin County was replanted because of larval damage. Fifteen to 20% of the plants in a field near Mocksville, Davie County were also attacked by the larval stage of this insect. (Bowers, APHIS, Williams, Ext.).

SPRING ROSE BEETLE (Strigoderma arboricola) - NORTH CAROLINA - Heavy adult emergence is occurring in Wayne and Wilson Counties. This



insect seems to do little damage to corn; however, the larvae is responsible for much of the "white grub damage" to sweet potatoes. Ten adults per sq. ft. were present in a 1/8 acre spot of one 100 acre corn field. (Lee, APHIS; Hunt, Ext.).

BILLBUGS (*Sphenophorus callosus*) - NORTH CAROLINA - Larvae and eggs present in scattered fields of Washington, Hyde and Tyrrell Counties. Ten plus adults have been observed on a single corn plant in this area. (Van Duyn, Ext.).

TOBACCO

BUDWORM (*Heliothis virescens*) - NORTH CAROLINA - Surveys in the Hoke, Columbus and Bladen Counties area indicate 33% of the fields surveyed are at or above the threshold level. The threshold level is 5 larvae found per 50 plants. (Tob. Pest. Mgt. Prog.; Baxley, APHIS).

SMALL FRUITS

BLUEBERRY MAGGOT (*Rhagoletis mendax*) - NORTH CAROLINA - The first blueberry maggot adults of the season were trapped in Pender County on June 6th. Seven adults were trapped near Burgaw, Pender County. Control practices are under way by now in all areas. (Weaver, Dept. of Ent.).

dh/310

SUMMARY OF SPECIMENS PROCESSED BY  
INSECT CLINIC N.C.S.U.

During week of June 5 - 8, 1972

County Collected	Specimens Received # of Specimens	County	Specimens Identified Host	Determination
Lincoln	1	Lincoln	Under rock	Trap-door spider, Ctenizid, <u>Ummidia</u> sp.
Warren	1	Warren	Apple, in fruit	Curculionids, mostly old oviposition damage & small larva (weevil damage)
Henderson	1	Henderson	Apple	Geometrids, eggs and new larvae (looper)
Received before June 5		Buncombe	Privet, on stems	Eriophyids (mites)
Cumberland	1	Cumberland	Nursery stock	Greenhouse millipede, <u>Oxidus gracilis</u>
Duplin	1	Duplin	On roads	Ephemeroidea (mayflies)
Orange	2	Orange	Tomato	Green peach aphid, <u>Myzus persicae</u> & potato aphid, <u>Macrosiphum euphorbiae</u>
Burke	1	Burke	Silver maple	Painted maple aphid, <u>Drepanaphis acerifoliae</u>
Granville	1	To be identified		
Durham	1	Durham	In swimming pool	Mottled tortoise beetle, <u>Deloyala guttata</u>
Davie	2	Davie	Corn	prob. corn root webworm, <u>Crambus</u> prob. <u>calignosellus</u> , and prob. stalk borer, <u>Papeipema</u> , prob. <u>nebris</u> .
Nash	1	To be identified		
Cleveland	1	Cleveland	Muscadine grape	prob. grape flea beetle, prob. <u>Altica chalybea</u>
Caldwell	1	Caldwell	Roses	Britly rose slug, <u>Cladius isomerus</u>
Martin	1	To be identified		
Juplin	1	To be identified		
Beaufort	1	Beaufort	Lawn	Sciarid larvae (Fungus gnats)
Received before June 5		Bladen	Blueberry	Cerambycid, <u>Oberea</u> sp. (long horned beetle), and Noctuid, <u>Acronicta</u> sp. (caterpillar)
Received before June 5		Alleghany	Fraser fir	Balsam twig aphid, <u>Mindarus abietinus</u>
Wake	1	Wake	By foundation of home	Larger yellow ant, <u>Acanthomyops interjectus</u>
Wake	2	Wake	Silver maple	Maple bladder gall, <u>Vasates quadripes</u> , and woolly alder aphid, <u>Prociphilus tessellatus</u>
Wake	1	Wake	In shrubbery	Giant stag beetle, <u>Lucanus elaphus</u>
Received before June 5		Pasquotank	Throughout home	Cigarette beetle, <u>Lasioderma serricorne</u> , and sawtoothed grain beetle, <u>Oryzaephilus surinamensis</u>



JUN 19 1972

ENTOMOLOGY DEPT.

entomology

June 16, 1972

TO: Agricultural Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist J.N.H.  
 SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

CORN AND SORGHUM

CORN EARWORM (Heliothis zea) - NORTH CAROLINA - Foliage feeding occurring in corn fields over entire Coastal Plain and Piedmont. Most fields have some economic damage with about 1% of the plants having been riddled. However, 30% stand loss was affirmed on 1 acre of two separate five acre late corn fields (stalks 12 inches or less). Late fourth instar larvae were observed as far west as Rowan County.

SOUTHERN CORN ROOTWORM (prob. Diabrotica undecimpunctata howardi) - NORTH CAROLINA - Larval damage still being reported in young corn and some damage observed in sorghum. Root damage observed in a four acre sorghum field in Rowan County. Approximately 10% of the plants displayed yellowing. All yellow plants observed in this field had insect feeding damage on their roots. (Bowers, APHIS, Hunt, Ext.).



DECIDUOUS FRUITS AND NUTS

FALL WEBWORM (Hyphantria cunea) - NORTH CAROLINA - Webs appearing over entire Coastal Plain and Piedmont. Webs six to ten inches long and five inches wide were observed in pecans, apples and persimmon trees along Highway 64 from Tyrrell County to Rowan County. Number of webs per tree ranged from 1 to 10. (Bowers, APHID; Hunt, Ext.).

MAN AND ANIMALS

A RECLUSE SPIDER, PROB. THE BROWN RECLUSE SPIDER (Loxosceles prob. reclusa) - NORTH CAROLINA - An adult, male recluse spider was sent to the Insect Clinic by D. L. Baker, Apex, Wake County. The spider was collected from the bathtub. The determination was made by D. L. Stephan and has been sent to Washington for confirmation. Should the specimen be confirmed as a brown recluse, this will be the only specimen collected outside the city limits of Winston Salem in North Carolina.

FEDERAL AND STATE PLANT PROTECTION PROGRAM

JAPANESE BEETLE (Popillia japonica) - NORTH CAROLINA - The first Japanese beetle adult of the season in Rowan County was found in a corn field on June 15. Damage to grapevines, flowering plums, and soybeans should begin appearing over the Piedmont in two weeks. (Bowers, APHIS; Hunt, Ext.).

dh/310

SUMMARY OF SPECIMENS PROCESSED BY  
INSECT CLINIC N.C.S.U.

During week of June 9-14  
1972

Specimens Received		Specimens Identified		
County Collected	# of Specimens	County	Host	Determination
Wilkes	1	Wilkes	Wood beams in home	Old house borer, <u>Hylotrupes bajulus</u>
Onslow	1	Onslow	Strungout mass on sidewalk	Sciarid larvae
Wayne	1	Wayne	Corn	Scarabs (spring rose beetle) <u>Strigoderma arboricola</u>
Pitt	1	Pitt	In ground	Imperial moth pupa, <u>Eacles imperialis</u>
Mecklenburg	2	Data not received or not yet identified		
Wake	1	Wake	Pyracantha	Tingids, undet. nymphs
Wake	1	Wake	Holly	Undet. Tetranychids (Spider mites)
Robeson	1	Robeson	Sunflowers	Corimelaenids, <u>Galgupha</u> sp. (Negro bugs)
Scotland	1	Scotland	In yard	<u>Oxidus gracilis</u> (Greenhouse millipede)
Wake	1	Wake	In and around home	<u>Oxidus gracilis</u> (Greenhouse millipede)
Hoke	1	Hoke	Oak	prob. <u>Callirhytis</u> sp., Cynipid, old galls
Wilkes	1	Wilkes	Apple maggot pheremone traps	Platystomatids, <u>Rivellia melliginis</u>
Received before June 9		Duplin	On ground near home	Turbellarian, <u>Bipalium kewense</u>
Received before June 9		Nash	Around house	<u>Oxidus gracilis</u> (Greenhouse millipede)
Duplin	1	Duplin	Flying between woods & blueberry field	Scarabs, <u>Strigoderma arboricola</u> (spring rose beetle)
Burke	1	Burke	In apple orchard	Adult Chrysopid
Wake	1	Wake	Ligustrum sinense	"Ligustrum weevil", <u>Ochyromera ligustri</u>
Onslow	1	Onslow	Flowering dogwood	<u>Mycodiplosis clavula</u> , old galls of dogwood clubgall midge
Johnston	1	Johnston	Corn	<u>Ostrinia nubilalis</u> (European corn borer)
Received before June 9		Warren	Emerging from ground	<u>Monocosta coryli</u> (Larger elm leaf beetle)
Edgecombe	1	Edgecombe	Ligustrum	"Ligustrum weevil", <u>Ochyromera ligustri</u>
Rampson	1	Data not received or not yet identified		
Warren	1	Warren	Entering home	<u>Oxidus gracilis</u> (Greenhouse millipede)
Jackson	--	Jackson	Strawberry	-----
Wayne	1	Wayne	Around oaks	Psocids, <u>Psocus venosus</u>

Summary of Specimens Processed by Insect Clinic, N.C.S.U.

Week of June 9-14, 1972

Page 2

Pitt	1	Pitt	Azalea	Undet. Tetranychids (Spider mites)
Guilford	1	Guilford	Schefflera	Undet. Tetranychids (Spider mites)
Wake	1	Wake	Juniper	Undet. Tetranychids (Spider mites)
Halifax	1	Halifax	Unknown tree	Fall webworms, <i>Hyphantria cunea</i>
Davie	3	Davie	On and under bark of willow oak	Tenebrionid, <i>Helops</i> sp.; Nitidulids, <i>Glichrochilus</i> prob. <i>quadrisignatus</i> ; and undet. Lepidop. larva
Alexander	2	Data not received or not yet identified		
Iredell	1	Data not received or not yet identified		
Davie	2	Data not received or not yet identified		
Randolph	2	Data not received or not yet identified		
Perquimans	1	Perquimans	Oak	<i>Magicalcaca</i> oviposition damage (Periodical cicada)
Wake	1	Wake	Throughout home	Undet. Entomobryids
Burke	1	Burke	Rhododendron	Cerambycids, <i>Oberia</i> sp. (Long horned beetle)
Perquimans	1	Perquimans	Around shrubs and flowers	Undet. Sphingid (Sphinx moth)
Davie	1	Davie	Hickory	Chermids, <i>Phylloxera</i> sp.
Davidson	1	Davidson	Hickory	Chermids, <i>Phylloxera</i> sp.
Person	1	Person	Hickory	Chermids, <i>Phylloxera</i> sp.
Wake	4	Wake	Swarming on trees & wild grape	<i>Magicalcaca</i> spp. (Periodical cicada) <i>Alypia octomaculata</i> (Eight-spotted forester)

JUN 23 1972

ENTOMOLOGY DEPT.

## entomology

June 23, 1972

TO: Agricultural Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist *T. N. H.*

SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist

Raleigh, North Carolina

## CORN

EUROPEAN CORN BORER (Ostrinia nubilalis) - NORTH CAROLINA - Stand loss observed in young corn fields scattered over Coastal Plain. Reports of fields with 25+% plant losses received from Wilson and Johnston Counties. Damage very similar to corn earworm damage in appearance and both are often found in same field.

## PEANUTS

THRIPS (Frankliniella prob. fusca) - NORTH CAROLINA - Two of 4 peanut fields surveyed had serious malformation of the leaves due to thrip injury. Ninety percent of the plants in the 15 acre field at Conetoe, Edgecombe County were damaged. There seemed to be a distinct difference in infestation levels between varieties in one test plot. (Hunt, Ext.).



COTTON

BOLL WEEVIL (Anthonomus grandis) - NORTH CAROLINA - Punctures observed in cotton squares in Robeson County. Extent of feeding damage not known at present. Fields not in a scouting program should be surveyed weekly to insure accurate timing of controls. (Williford, Ext.; Hunt, Ext.).

SOYBEANS

MEXICAN BEAN BEETLES (Epilachna varivestis) - NORTH CAROLINA - Population is building up especially in northeastern counties. Defoliation of small plants (10 inches or less in height) observed in Camden County. Only a few fields are being damaged at present; however, small beans should be watched. (Sawyer, Ext.; Hunt, Ext.).

HOME GARDEN

SALTMARSH CATERPILLAR (Estigmene acrea) - NORTH CAROLINA - Three small infestations (1/4 acre or less) of the saltmarsh caterpillar reported from Robeson County and 1 report from Sampson County. In 1 case (Robeson County) damage occurred to cabbage and snapbeans in a home garden. Counts revealed about 1 per 3 ft. of row. Homeowner indicated that there had been a heavier population prior to heavy rains. (Swann, Ext.; Hayes, APHIS).

dh/310

SUMMARY OF SPECIMENS PROCESSED BY  
INSECT CLINIC N.C.S.U.

During Week of June 15-21, 1972

Specimens Received		Specimens Identified		
County Collected	# of Specimens	County	Host	Determination
Wilson	4	Wilson	Young corn	European corn borer, <u>Ostrinia nubilalis</u> ; prob. <u>Heliothis</u> sp. (young larvae; and 2 spp. of thrips)
Halifax	1	Halifax	In building	Wheel bug, <u>Arilus cristatus</u>
Pamlico	1	Pamlico	Irish potato	European corn borer, <u>Ostrinia nubilalis</u>
Wake	1	Wake	Apple	Oriental fruit moth, <u>Grapholitha molesta</u>
Received before June 15		Cabarrus	Corn	Grass thrips, <u>Anaphothrips obscurus</u> ; grain thrips, <u>Limothrips cerealium</u> ; and Thripids, <u>Frankliniella tenuicornis</u>
Lenoir	1	Lenoir	Pecan	Scolytids, <u>Xyleborinus saxeseni</u> (bark beetles)
Columbus	1	Columbus	Boxwood	undet. spider mites
Wake	1	Wake	Red cedar	No insect found
Pender	1	Pender	Around house	Wheel bug, <u>Arilus cristatus</u>
Gaston	1	Gaston	Pecan	Psocids, <u>Psocus venosus</u> (Bark lice)
Swain	1	Data not received		
Cleveland	1	Cleveland	Sweet corn	Corn earworm, <u>Heliothis zea</u>
Wilkes	1	Wilkes	In apple orchard	Apple maggot, <u>Rhagoletis pomonella</u>
Yadkin	1	Species to be determined (thrips)		
Way	2	Species to be determined (thrips)		
Jerry	2 or 3	Species to be determined (thrips)		
Received before June 15		Orange	Corn	Grass thrips, <u>Anaphothrips obscurus</u> ; and thripids, <u>Frankliniella tenuicornis</u>
Received before June 15		Moore	Corn	Grass thrips, <u>Anaphothrips obscurus</u>
Received before June 15		Orange	Corn	Grass thrips, <u>Anaphothrips obscurus</u>
Received before June 15		Yadkin	Corn	Grass thrips, <u>Anaphothrips obscurus</u> ; grain thrips, <u>Limothrips cerealium</u> ; thripids, <u>Frankliniella tenuicornis</u>
Received before June 15		Davidson	Corn	Grass Thrips, <u>Anaphothrips obscurus</u>
Orange	2	Orange	Silver maple	Woolly alder aphid, <u>Prociphilus tessellatus</u> ; & maple bladder gall mites, <u>Vasates quadripes</u>
Forsyth	4-5	Forsyth	Corn	Stalk borer, <u>Papaipema nebris</u> ; European corn borer, <u>Ostrinia nubilalis</u> ; and 2-3 thrips
Rowan	1	Rowan	In garage	Carabids, ground beetles <u>Harpalus</u> ( <u>Pseudophonus</u> ) sp.
Onslow	1	Onslow	Corn	prob. European corn borer, prob. <u>Ostrinia nubilalis</u>
Wake	1	Wake	In home	Smoke brown cockroach, <u>Periplaneta fuliginosa</u>
Johnston	2	Johnston	Corn	Eur. corn borer, <u>Ostrinia nubilalis</u> & an armyworm, <u>Spodoptera</u> sp.

Summary of Specimens Processed by Insect Clinic N.C.S.U.

Page 2

Week of June 15-21, 1972

BY INSECT CLINIC N.C.S.U.

Durham	1	Durham	Weeping willow	Leaf beetles, <u>Plagioderma</u> sp.
Robeson	1	Robeson	In soil of garden & lawn	Acrolophid larvae
Robeson	2	Robeson	Locust	Locust twig borer, <u>Ecdytoplopha insitici-ana</u> ; & silverspotted skipper, <u>Epargyreus clarus</u>
Hertford	1	Hertford	Steps of bldg.	Eyed elater, <u>Aiaus</u> sp.
Graham	1	Graham	Oak	Undet. Nymphalid
Vance	1	Vance	--	Undet. Megalopygid
Robeson	2	Robeson	Weed, vegeta- bles	Buckeye, <u>Precis coenia</u> ; & saltmarsh caterpillars, <u>Estigmene acrea</u>
Cumberland	3	Cumberland	Corn	<u>Heliothis</u> sp. larva, 2 undet. sp. thrips
Orange	1	Orange	Corn	Undet. sp. thrips
Wake	2	Wake	Corn	Southern cornstalk borer, <u>Diatraea crani- bido des</u> ; and billbugs, <u>Sphenophorus</u> sp.
Bladen	1	Bladen	Peanut	Undet. sp. thrips
Received before June 15		Caldwell	Swarming over lawn	Cluster fly, <u>Pollenia rudis</u>
Sampson	1	Sampson	Snap bean	Saltmarsh caterpillar, <u>Estigmene acrea</u>
Avery	1	Avery	Imported wooden trays	Undet. Lyctids (Powder post beetles)
Cumberland	1	Cumberland	Cow	Secondary screwworm, <u>Cochliomyia macellaria</u>
Sampson	1	Sampson	Cucumbers	Fleabeetle, <u>Disonycha glabrata</u>
New Hanover	1	New Hanover	Grape	Grape tube gall ( <u>Cecidomyia viticola</u> )
Iredell	1	Iredell	Sugar maple	Greenstriped mapleworm, <u>Anisota rubicun-</u>
Haywood	1	No data received		
Beaufort	1	Beaufort	In home	Carpenter ants, <u>Camponotus</u> sp.
Lee	1	Lee	Fescue lawn	Undet. Acrolophids
Vance	1	Vance	In home	Citheroniid, <u>Anisota</u> sp.
Wake	1	Wake	In basement	Greenhouse millipede, <u>Oxidus gracilis</u>
Guilford	1	Guilford	Rhododendron	weevil, <u>Brachyrhinus</u> sp.
Graham	1	Graham	Strawberry	Strawberry rootworm, <u>Paria fragariae</u>
Duplin	1	Duplin	Soybean	Obliquebanded leafroller, <u>Choristoneura rosaceana</u>
Wilson	1	Specimens destroyed in shipment		
Received before June 15		Haywood	In home	Larger yellow ant, <u>Acanthomyops interjectus</u>
Wake	1	Wake	Azalea	Spider mite
Wake	1	Species to be determined		



# entomology

RECEIVED

ENTOMOLOGY DEPT. June 30, 1972

TO: Agricultural Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

## NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist

Raleigh, North Carolina

### CORN

ARMYWORM (Prob. Pseudaletia unipuncta) - NORTH CAROLINA - Damage from armyworm larvae which warranted treatment occurred for the third time in Alleghany County near Sparta in a no-till corn field. The Alleghany, Surry, and Yadkin County area had the heaviest populations of armyworms in the state this year. Damage was more severe in no-till corn following rye or fescue. (Murdoch, Ext., Hunt, Ext.).

### COTTON

SPIDER MITES (Tetranychus sp.) - NORTH CAROLINA - Damage occurring to small cotton in spots over Scotland-Robeson County area and in Northampton-Halifax County area. Treatments have been applied in both areas. Recent heavy rains reduced damaging populations in some fields. (Hunt, Ext.)



TOBACCO

BUDWORMS (Heliothis virescens) - NORTH CAROLINA - Tobacco is flowering in most Coastal Plain fields and budworms no longer pose a problem in this area. However, about 4% of the fields in the Surry County area are at or above the threshold level of a 10% infestation. (Tobacco Pest Management Program).

HORNWORMS (Manduca sexta) - NORTH CAROLINA - Surveys in the Columbus - Bladen County area indicate that about 3% of the fields need an insecticide treatment. Damaging hornworm populations are even fewer over the rest of the state. (Tobacco Pest Management Program).

HOUSEHOLDS

MILLIPEDES AND CENTIPEDES (Species unknown) - NORTH CAROLINA - About 40 reports have been received since mid May from over the entire state concerning millipedes and centipedes on walls inside and out houses and other buildings. The wet spring followed by periodically heavy rains is a logical reason for this behavior. (Lee, APHIS, Meares, APHIS; Hunt, Ext.).

FEDERAL AND STATE PLANT PROTECTION PROGRAMS

JAPANESE BEETLE (Popillia japonica) - NORTH CAROLINA - Light emergence of adults observed in Mountains (Buncombe County south of Asheville) on June 25. Adults have now appears in most sections of the state. (Lott, APHIS, Hunt, Ext.).

dh/310

SUMMARY OF SPECIMENS PROCESSED BY  
INSECT CLINIC N.C.S.U.

During week of June 22-27, 1972

Specimens Received		Specimens Identified		
County Collected	# of Specimens	County	Host	Determination
Yadkin	1	Yadkin	Seed potatoes, oak trunk	Greenhouse millipede, <u>Oxidus gracilis</u>
Rowan	1	Rowan	Crepe myrtle	Psocids, <u>Psocus venosus</u> (bark lice)
Kentucky state	1	Kentucky	Chestnut blooms	Soldier beetle, <u>Chauliognathus</u> sp.
Durham	2	Durham	In home	Rustic borer, <u>Xylotrechus colonus</u> & a sawyer, <u>Monochamus carolinensis</u>
Robeson	3	No data received		
Received before June 22		Alexander	Corn	Grass thrips, <u>Anaphothrips obscurus</u> and Thripids, <u>Frankliniella tenuicornis</u>
Received before June 22		Iredell	Corn	Thripids, <u>Frankliniella tenuicornis</u>
Received before June 22		Davie	Corn	Grass thrips, <u>Anaphothrips obscurus</u> & Thripids, <u>Frankliniella tenuicornis</u>
Received before June 22		Randolph	Corn	Thripid, <u>Frankliniella tenuicornis</u>
Gaston	1	Gaston	--	Luna moth, <u>Actias luna</u>
Johnston	1	Johnston	Under wood scraps	Stink bugs, <u>Euthyrhynchus floridanus</u>
Ware	1	Data incomplete		
S. C.	4	S. C.	Yard; in bathtub	Cutworm, <u>Leucania</u> sp.; Dolichopodid fly, Encyrtid wasp, Entomobryid springtail
Johnston	1	Johnston	Grape roots	Grape root borer, <u>Vitacea polistiformis</u>
Edgecombe	1	Edgecombe	Cotton	Prob. Obliquebanded leafroller, <u>Choristoneura rosaceana</u>
Rowan	1	Rowan	Tomato	undet. whiteflies
Lee	1	Lee	Hydroponic solution in greenhouse	Undet. Chironomids (midges)
Cumberland	1	Cumberland	In corn field	Spring rose beetle, <u>Strigoderma arboricola</u>
Warren	1	Warren	Begonia and canna	Greenstriped mapleworm, <u>Anisota rubicunda</u>
Cherokee	1	Cherokee	Bluegrass lawn	Undet. Acrolophids
Columbus	1	Columbus	Maple	Greenstriped mapleworm, <u>Anisota rubicunda</u>
Wake	1	Wake	In home	Cigarette beetles, <u>Lasioderma serricorne</u>
Franklin	1	Franklin	Azalea	Azalea leafminer, <u>Gracillaria azalea</u>
Bladen	1	Bladen	Corn	Billbugs, <u>Sphenophorus</u> sp.
Guilford	1	Guilford	Juniper	Undet. Diaspidid scales
Surry	1	Surry	Bit person	Stag beetle, <u>Pseudolucanus</u> sp.
Bladen	1	Bladen	Corn	Billbugs, <u>Sphenophorus</u> sp.
Union	1	Union	On oak trunk and limbs	Psocids, <u>Psocus venosus</u> (barklice)
Hertford	1	Hertford	On porch	Larger elm leaf beetle, <u>Monocesta coryli</u>
Swain	1	Swain	In and around buildings	Greenhouse millipedes, <u>Oxidus gracilis</u>

Summary of Specimens Processed by Insect Clinic N.C.S.U.

Page 2

Week of June 22-27, 1972

During week of June 22-27, 1972

Cleveland	1	Cleveland	In apple sticky traps	Undet. ladybird beetles
Pender	1	Pender	In water bucket	Skin beetles, <u>Trox suberosus</u>
Johnston	1	Johnston	Onion	Prob. yellow woollybear, <u>Diacrisia virginica</u>
Chatham	3	Chatham	Sycamore	Undet. aphids; sycamore lace bug, <u>Corythucha ciliata</u> ; and leaf beetles, poss. <u>Chlamisus</u> sp.
Macon	1	Macon	Arborvitae	Gray squirrel damage
Montgomery	1	Montgomery	Tree	Underwing moth, <u>Catocala</u> sp.

JUL 7 1972

entomology

July 7, 1972

TO: Agricultural Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist *T. N. H.*

SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist

Raleigh, North Carolina

CORN

ARMYWORM (Pseudaletia unipuncta) - NORTH CAROLINA - Heavy foliage damage to corn (5-6 ft. in height) observed on a total of 25 acres in Tyrrell County. Infestations as high as 5 larvae per foot of row is occurring in spots up to 1/2 acre in size. The majority of the 4th and 5th instar larvae had moved from the grass fall panicum. (Van Duyn Ext.).

SOYBEANS

MEXICAN BEAN BEETLES (Epilachna varivestis) - NORTH CAROLINA - Infestations in some north eastern fields reaching 4 larvae per foot of row. About 150 acres observed in Camden County which will need treatment if present trend continues. Fifteen percent defoliation has been observed in that area already. (Van Duyn, Ext.).



FOREST AND SHADE

PERIODICAL CICADA (Magicicada sp.) - NORTH CAROLINA - Observations and reports indicate that damage from cicada oviposition (egg laying) has occurred largely on hardwood trees. Oaks with 30 to 35 dead twigs are common throughout the central Piedmont (Davie, Davidson, and Randolph counties). Few reports received concerning heavy damage to fruit trees. (Bowers, APHIS; Hunt, Ext.).

FEDERAL AND STATE PLANT PROTECTION PROGRAMS

WHITE FRINGED BEETLE (Graphognathus sp.) - NORTH CAROLINA - First adults of season found feeding on astor June 26, at airport in Rowan County. We have had surprisingly few complaints of larval damage this year. (Bowers, APHIS; Hunt, Ext.).

JAPANESE BEETLES (Popillia japonica) - NORTH CAROLINA - Heavy feeding occurring over entire state on weeds by adults. One soybean field of 5 surveyed in southern Coastal Plain revealed about 1 beetle per foot of row. Beetles occurring on corn silks in Coastal Plain and Piedmont; however little damage is occurring at present. (Johnson, APHIS; Hunt, Ext.).

gdb/310

SUMMARY OF SPECIMENS PROCESSED BY  
INSECT CLINIC N.C.S.U.

During week of June 28-July 5,  
1972

Specimens Received		Specimens Identified		
County Collected	# of Specimens	County	Host	Determination
Wake	1	Wake	In apartment	Undet. Sphecid wasp
Bertie	1	Bertie	Resting on limb	Imperial moth, <u>Eacles imperialis</u>
Burke	3	Burke	Around home	Wheel bug, <u>Arilus cristatus</u> ; Merchant grain beetle, <u>Oryzaephilus mercator</u> ; and undet. vinegar flies
Rowan	1	Rowan	Grape	Undet. moth larvae
Davidson	1	Davidson	Boxwood	Undet. spider mites
Lee	1	Lee	In tobacco field	Ground beetles, <u>Harpalus caliginosus</u>
Jones	1	Jones	Pine	Redheaded pine sawfly, <u>Neodiprion lecontei</u>
Cleveland	1	Cleveland	Cotton	Leafroller moth, <u>Platynota</u> sp.
Carteret	1	Carteret	On ground	Flatworm, <u>Bipallum kewense</u>
Jackson	1	Jackson	Rhododendron	Whitemarked tussock moth, <u>Hemerocampa leucostigma</u>
Richmond	1	Richmond	Geraniums & Euonymus	Japanese weevil, <u>Pseudocnecorhinus bifasciatus</u>
Cleveland	1	Cleveland	Apple	Undet. Geometrid moth (looper)
Cherokee	1	Data insufficient		
Robeson	1	Robeson	Arborvitae	Undet. spider mites
Jackson	3	Jackson	"on len tree"	Undet. Pyraloid moth; undet. Membracid treehopper; and a Helodid beetle, <u>Cyphon</u> sp.
Durham	1	Durham	Pin oak	Cynipid gall wasps, prob. <u>Callirhytis medularis</u>
Franklin	1	Franklin	Yard and garden	Greenhouse millipede, <u>Oxidus gracilis</u>
Wake	3	Wake	In home	Old house borer, <u>Hylotrupes bajulus</u> ; Green house stone cricket, <u>Tachycines asynamorus</u> ; longhorn beetle, <u>Orthosoma brunneum</u>
Beaufort	1	Beaufort	Sycamore	Undet. gall mites
Wake	1	Wake	Pecan	Undet. gall mites
Johnston	1	Johnston	Pecan	Whitemarked tussock moth, <u>Hemerocampa leucostigma</u>
Person	1	Person	-----	Undet. sphinx moth
Surry	1	Surry	Maple	Undet. gall midges
Lincoln	1	Data insufficient		

## Summary of Specimens Processed by Insect Clinic N.C.S.U.

Page 2

Week of June 28-July 5, 1972

Guilford	1	Guilford	In a plant container	Flatworm, <u>Bipalium kewense</u>
Guilford	1		Data insufficient	
Cleveland	2	Cleveland	In carpet	Flesh fly and blow fly larvae
Davie	1	Davie	In home	Indian meal moth, <u>Plodia interpunctella</u>
Wake	1	Wake	In home	Greenhouse millipede, <u>Oxidus gracilis</u>
Vance	1	Vance	On pecan	Carolina mantid, <u>Stagmomantis carolina</u>
Carteret	1	Carteret	In home	Wolf spider, <u>Lycosa</u> sp.
		Randolph	Corn	Prob. Grass thrips, <u>Anaphothrips obscurus</u>
		Wilson	Corn	Grass thrips, <u>Anaphothrips obscurus</u> ; Tobacco thrips, <u>Frankliniella fusca</u> ; Flower thrips, <u>Frankliniella tritici</u> ; and Thripids, <u>Frankliniella tenuicornis</u>
		Yadkin	Corn	Grass thrips, <u>Anaphothrips obscurus</u>
		Clay	Corn	Grass thrips, <u>Anaphothrips obscurus</u> ; Tobacco thrips, <u>Frankliniella fusca</u> ; & Thripids, <u>Frankliniella tenuicornis</u>
		Surry	Corn	Grass thrips, <u>Anaphothrips obscurus</u> ; Tobacco thrips, <u>Frankliniella fusca</u> ; Thripids, <u>Frankliniella tenuicornis</u> , & Thripid, <u>Plesiothrips perplexus</u>
		Davie	Under bark of willow oak	Undet. carpenterworm moth
Chowan	1	Chowan	In church	Greenhouse millipede, <u>Oxidus gracilis</u>
Gaston	2	Gaston	----	Wild cherry moth, <u>Apatelodes torrefacta</u> ; and undet. Noctuid moth
Lincoln	1	Lincoln	In home	Sawtoothed grain beetle, <u>Oryzaephilus surinamensis</u>
Sampson	1	Sampson	Boxwood	Undet. spider mites

Summary of Specimens Processed by Insect Clinic N.C.S.U.

Page 3

Week of June 28-July 5, 1972

Wake	1	Wake	Tomato	Tobacco hornworm, <u>Manduca sexta</u>
Catawba	1	Catawba	Corn and black-berry	Japanese beetle, <u>Popillia japonica</u>
Wake	1	Wake	In home	Flatworm, <u>Bipalium kewense</u>
		Dare	In home	Poss. Tortricid moths
Cleveland	1	Cleveland	Cantaloupe roots	Scarab beetle, <u>Ataenius</u> sp.
Forsyth	1	Forsyth	Gladiolus	Gladiolus thrips, <u>Taeniothrips simplex</u>
Sampson	1	Sampson	Corn	Billbugs, <u>Sphenophorus</u> sp.



RECEIVED

JUL 21 1972

# entomology

July 21, 1972

TO: Agricultural Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

## NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

### COTTON

BOLL WEEVIL (Anthonomus grandis) - NORTH CAROLINA - Surveys reveal heavier damage than during the 1971 season. Scouts report 25+% of the squares damaged on early cotton in both the Scotland and the Nash County areas. Next 2-3 weeks very critical for weevil control. (Robertson, Ext.).

BOLLWORM (Primarily Heliothis zea) - NORTH CAROLINA - Eggs are showing up on cotton in Scotland County. Therefore, there should be a 1-2 week delay before eggs appear in the Northampton County area.

### SOYBEANS

GREEN CLOVERWORMS (Plathypena scabra) - NORTH CAROLINA - Surveys over Piedmont and Coastal Plain indicated that green cloverworms are making their annual appearance in most soybean fields. Present infesta-



tions are generally less than 1 per 2 ft. of row. Farmers should not be alarmed until defoliation reaches 20% of the leaf surface. (Hunt, Ext.).

MEXICAN BEAN BEETLE (Epilachna varivestis) - NORTH CAROLINA -  
Surveys indicate scattered fields have populations as high as 3 adults per ft. of row. Damage still is generally restricted to the northeastern counties with a few damaged fields scattered over the Robeson County area. (Lowery, APHIS; Hunt, Ext.).

#### BENEFICIAL INSECTS

TACHINIDAE (Winthemia prob. manducae) - Surveys conducted July 11-18 indicate that 18% of the 879 hornworms examined in the Wilson-Wayne County area had been parasitized by tachinids. The level of parasitization was only about 1% in the Columbus-Bladen County area. Very few hornworms are occurring in the Surry County area. (Tob. Pest Mgt. Prog.).

dh/310

## SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.

During week of July 13-19, 1972

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Southern Field Crops</u>				
Chowan	1	Peanuts	all	Undet. spider mites
Jones	1	Tobacco	Larvae	Leaf beetles, <u>Lema</u> sp.
<u>Grains, Soybeans &amp; Forages</u>				
Jones	1	Soybeans	Adults	Leaf Beetles, <u>Colaspis</u> prob. <u>flavida</u>
Johnston	2	Soybeans	Adults	Leaf beetles, <u>Colaspis</u> prob. <u>flavida</u> whitefringed beetle, <u>Graphognathus</u> sp.
Bladen	1	Soybeans	Larva	Whitemarked tussock moth, <u>Hemerocampa leucostigma</u>
<u>Forestry, Ornamentals &amp; Turf</u>				
Wake	1	Pine	Larva	Redheaded pine sawfly, <u>Neodiprion lecontei</u>
Halifax	3 or 4	Hackberry, yard	Nymphs, larvae & adults	1 or 2 sp. of plant lice, <u>Pachypsylla</u> sp.; undet. flea beetles; and greenhouse millipede, <u>Oxidus gracilis</u>
Jaywood	1	Rhododendron	Old damage	Undet. clearwing moths
Durham	1	Lawn	Larvae	Undet. Acrolophid moths
Wake	1	Jumper	All	Undet. spider mites
Pamlico	1	Gladiolus	All	Prob. gladiolus thrips, <u>Taeniothrips simplex</u>
Wake	2	Rose	Nymphs&Adults	Undet. Flatid leafhoppers
Wake	1	Begonia	All	Undet. mealybugs
Moore	1	White pine	All	Prob. pine bark aphid, <u>Pineus strobi</u>
Bladen	1	Mimosa	Larvae	Mimosa webworm, <u>Homadaula anisocentra</u>
Witt	1	Oak	Old damage	Undet. spider mites
Currituck	1	Lawn	Larva	Undet. Acrolophid moths.
Lowan	1	Spruce	Old damage	Undet. spider mites
Durham	2	Yaupon & boxwood	Adults & larvae	Wax scales, <u>Ceroplastes</u> sp., and boxwood leafminer, <u>Monarthropalpus buxi</u>
New Hanover	1	Arborvitae	Old damage	Undet. spider mites
<u>Vegetables</u>				
Pamlico	2	Sweet potatoes	Adults	Golden tortoise beetle, <u>Metriona bicolor</u> , & mottled tortoise beetle, <u>Deloyala gutta</u>
<u>Household and Industrial</u>				
Wayne	1	In milk bulk tank	Larvae	Prob. secondary screwworm, <u>Cochliomyia macellaria</u>
Wslow	1	Flour, spices	Adults	Cigarette beetle, <u>Lasioderma serricorne</u>
<u>Miscellaneous &amp; Accidental Household</u>				
Martin	1	Entering home	Adults	Ground beetles, <u>Harpalus</u> ( <u>Pseudophonus</u> ) sp.
<u>Fruit</u>				
Henderson	1	Grape	All	Grape phylloxera, <u>Phylloxera vitifoliae</u>
Wake	1	Fig	All	Prob. Giant bark aphid, <u>Longistigma caryae</u>
McDowell	1	Grape	Adults	Japanese beetle, <u>Popillia japonica</u>





entomology  
RECEIVED

July 28, 1972

TO: Agricultural Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*

SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist

Raleigh, North Carolina

CORN

ARMYWORM (Pseudaletia unipuncta) - NORTH CAROLINA - Heavy army-worm damage continues to be reported from the Hyde-Tyrrell County area. About 40 acres was completely stripped near Fairfield, Hyde County. Damage most likely in fields with or near heavy grass, particularly fall panicum. (Van Duhn, Ext.).

COTTON

BOLLWORM (Heliothis sp.) - NORTH CAROLINA - Economic larval damage reported from less than 2% of the cotton fields surveyed (about 250 fields scouted) in the Scotland County area. Very few eggs have been observed to date in Northampton County area. (Bradley, Ent. Dept., NCSU).



BENEFICIAL INSECTS

STILT BUG (Jalysus spinosus) - Spot checks in Surry County area revealed about 1 stilt bug (nymph or adult) per tobacco plant. This insect is very important in reducing the number of viable hornworm and budworm eggs. (Hunt, Ext.).

REMINDER -- Sanitation in Storage Facilities.

We are approaching the season for harvest. This means storage in many cases. Now is the time to think about cleaning those bins and storage houses if farmers did not do their spring house cleaning. Many farmers suffered loss in stored tobacco last fall and winter and losses in stored grain occur each year. Clean facilities will eliminate much of the problem.

dh/310



## SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.

During week of July 20-26, 1972

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
Southern Field Crops				
Wake	5	Tobacco	Larvae	Variiegated cutworm, <u>Peridroma saucia</u> ; Tobacco budworm, <u>Heliothis virescens</u> ; Yellowstriped armyworm, <u>Spodoptera orinthogalli</u> ; prob. armyworm, <u>Pseudaletia unipuncta</u> ; and prob. potato tuberworm, <u>Phthorimaea operculella</u>
Man and Animals				
Texas state	1	Stung human	Adults	Dusky sap beetle, <u>Carpophilus lugubris</u>
S. Carolina	1	Stung human	adult	Undet. Bethyloid wasp
Grain, Soybeans and Forages				
Orange	1	Corn	Adults	Dusky sap beetle, <u>Carpophilus lugubris</u>
Orchetry, Ornamentals and Turf				
Wake	1	Dahlia	Adults	Blister beetles, <u>Epicauta trichrus</u>
Wake	1	White pine	Nymphs?	Prob. pine bark aphid, <u>Pineus strobi</u>
More	2	Juniper	All	Undet. spider mites & Diaspidid scales
Edgecome	2	Maple	Adult & larva	Firefly, <u>Photuris</u> sp.; and Noctuid moth, <u>Zale</u> prob. <u>lunata</u>
Wilmington	1	Boxwood	Old damage	Undet. spider mites
Wake	1	Pyracantha	Old nymph dam.	Undet. Flatid leafhoppers
Wayne	1	Daisy	Larvae	Undet. Geometrid moth
Currituck	1	Shrubs	Larva	Saltmarsh caterpillar, <u>Estigmene acrea</u>
Wake	2	Pyracantha	All & adults	Aphids, prob. <u>Eriosoma</u> sp.; & lace bugs, <u>Corythucha</u> sp.
Wake	1	Juniper	Old injury	Undet. spider mites
Northampton	1	Willow Oak	Adults	Undet. Diaspidid scales
Vegetables				
Clyde	1	Collards	Larvae	Undet. thrips
Cumberland	1	Tomato	All	Undet. spider mites
Perquimans	1	Snap & butter beans	All	Undet. spider mites
Tyrrell	1	Potato	Larvae	Potato tuberworm, <u>Phthorimaea operculella</u>
Miscellaneous and Accidental Household				
Burke	1	Entering home	Adults	Ground beetles, <u>Harpalus</u> ( <u>Pseudophonus</u> ) sp.
S. Carolina	1	On window sill	Adults	Ants, <u>Crematogaster</u> sp.
Montgomery	1	In building	Adults	Ground beetles, <u>Harpalus</u> ( <u>Megapangus</u> ) <u>caliginosus</u>





# entomology

August 4, 1972

TO: Agricultural Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*

SUBJECT: Insect Survey Report

## NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
Raleigh, North Carolina

### CORN

**BILLBUG (Sphenophorus callosus)** - NORTH CAROLINA - Larval population heavy in many Hyde, Tyrrell, Washington County corn fields. Population of 4 larvae per stalk were observed. Surveys in infested fields would indicate overwintering populations in fields with a short billbug history.

**TWOSPOTTED SPIDER MITE (Tetranychus sp.)** - NORTH CAROLINA - Corn blade yellowing due to mite damage in a Hertford County field. Reduced yield is unlikely as ears approaching maturity. However, mite damage to corn is uncommon in North Carolina. Plants heavily attacked prior to pollination could reduce yield. Awareness may lead to early detection. (Campbell, Dept. of Ent, N.C.S.U.; Hunt, Ext.).



PEANUTS

POTATO LEAFHOPPER (Empoasca fabae) - NORTH CAROLINA - Leafhopper damage to peanuts heavier in Gates County area than previous years. Observations in area revealed yellowing in fields with light sandy soils. The population is lighter than usual for this time of year in the other peanut growing areas of the state. (Campbell, Dept. of Ent., N.C.S.U.).

TOBACCO

VARIEGATED CUTWORM (Peridroma saucia) - NORTH CAROLINA - Cutworms damaged at least 2 fields of tobacco in Wake County and about 10 fields in Wilson County. In Wake County, checks in fields revealed up to 10 larvae per sq. ft. under trash on the ground (dropped leaves, tops, etc.). In Wilson County, spots with 2-5 larvae per plant were observed in about 8 of the 10 fields visited. Feeding occurred during heat of the day in Wilson County. Damage restricted to lower half of stalk. We would like any reports of similar observations. (Lynn, Ext., Ellis, Ext.).

NOTE:

Observation along Highway 50 between Kenansville, Duplin County, and Raleigh, Wake County, indicated farmers are beginning to windup harvesting tobacco in the southern Coastal Plain. Eight fields were observed where stalk destruction had been completed (plowed and disked).

BENEFICIAL INSECTS

TOBACCO HORNWORM PARASITE (Apanteles congregatus) - NORTH CAROLINA - The percent hornworms parasitized by Apanteles rose from 16% last week to 28% this week. A total of 846 hornworms were inspected in 710 tobacco fields in Wilson and Wayne Counties. (Tobacco Pest Mgt. Program).

dh/310

## SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.

During week of July 27-August 2, 1972

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Southern Field Crops</u>				
Wilson	1	Tobacco	Larvae	Variegated cutworm, <u>Peridroma saucia</u>
<u>Man and Animals</u>				
Witt	1	Stinging people	Adults	Undet. Bethyloid wasps
<u>Grain, Soybeans and Forages</u>				
Duplin	1	Corn	Larvae	Armyworms, <u>Pseudaletia unipuncta</u>
Warren	1	Corn	Larvae	European corn borer, <u>Ostrinia nubilalis</u> , and Southern cornstalk borer, <u>Diatraea crambidoides</u>
Cabarrus	1	Soybeans	Old injury	Three cornered alfalfa hopper, <u>Spissistilus festinus</u>
Wates	1	Corn	All	Undet. aphids
<u>Forestry, Ornamentals and Turf</u>				
CDowell	1	Maple	Adult	Rosy maple moth (Greenstriped mapleworm) <u>Anisota rubicunda</u>
Wake	2	Redbud	Larvae	Obliqueband leafroller, <u>Choristoneura rosaceana</u> , and Gelechiid moths, <u>Fascista cercerisella</u>
Wake	1	Sweet gum	Larvae	Phycitid moth, <u>Nephoteryx uvinella</u>
Jackson	1	Lilac	Adults	Flatid leafhoppers, <u>Ormenooides</u> sp.
Buncombe	1	White ash	Larvae	Undet. gall midges
Guilford	1	Rhododendron	Adults	Black vine weevil, <u>Brachyrhinus sulcatus</u>
Wake	1	Weeping willow	All	Leaf beetles, <u>Plagioderia</u> sp.
Robeson	1	Dogwood	Adults	Japanese weevil, <u>Pseudocneorhinus bifasciatus</u>
Currituck	1	Spruce	Old injury	Undet. spider mites
Moore	1	Marigold	Adults	Undet. thrips
Yancey	1	Rhododendron	Adults	Rhododendron lace bug, <u>Stephanitis rhododendri</u>
Yancey	1	Dogwood	Larva	Prob. Dogwood twig borer, <u>Oberea</u> prob. <u>trinpunctata</u>
<u>Vegetables</u>				
Surry	1	Tomatoes	All	Undet. whitefly
Bladen	1	Green peas	Adults	Cowpea curculio, <u>Chalcodermus aeneus</u>
<u>Household and Industrial</u>				
Cumberland	1	Wool rug	Larvae	Varied carpet beetle, <u>Anthrenus verbasci</u>
Lincolnton	1	In home	Adults	Flesh flies, prob. <u>Sarcophaga</u> sp.
Lincolnton	1	In bathroom	Adults	Moth flies, <u>Telmatoscopus albipunctatus</u>
Wake	1	In building	Adult	American cockroach, <u>Periplaneta americana</u>
Wake	1	On floor in home	Larvae	Undet. sap beetles

Summary of Specimens Processed by Insect Clinic, N.C.S.U.

During week of July 27-August 2, 1972

Page 2

Household and Industrial (Con't.)

Wake	1	kitchen	Adults	Sawtoothed grain beetle, <u>Oryzaephilus surinamensis</u>
Union	1	Throughout home	Adults	Sawtoothed grain beetle, <u>Oryzaephilus surinamensis</u>
Wake	1	In building	Adults	Undet. Anobiid beetles.
Miscellaneous & Accidental Household				
Alamance	1	In home	Adult	Eastern Hercules beetle, <u>Dynastes tityus</u>
Rowan	1	In home	Adults	Undet. Ichneumonid wasps
Fruit				
Jackson	1	Butternut	All?	Undet. Eriophyid mites
Davidson	1	Pecan	Adults	False powderpost beetles, <u>Xylobiops basillare</u>
Miscellaneous				
Texas State	1	A grass sp.	Adults	Thrips, <u>Chirothrips</u> sp.
Bladen	1	Cocklebur	All	Undet. aphids
Jones	1	Snap beans	Nymph	Undet. assassin bug
Alamance	1	In straw mulch	Adult	Velvet ant, <u>Dasymutilla occidentalis</u>
Vance	1	In car recently brought in from N.Y.S.	Adult	Citheroniid moth, <u>Anisota</u> sp.
Lincoln	1	Under board in yard	-----	Unknown



# entomology

August 11, 1972

TO: Agricultural Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist JNH

SUBJECT: Insect Survey Report

SOYBEANS

CORN EARWORM (Heliothis zea) - NORTH CAROLINA - Pod damage from corn earworm larvae will likely be very spotty. Light trap collections of adults are far below previous years for this date. Maximum catch this year have been less than 20 per trap. Catches during the same period last year (1971) have exceeded 150 in a single trap. Traps are located in Columbus, Johnston and Bertie counties. (Pleasants, Department of Entomology)

A STEM BORER (Dectes texanus) - NORTH CAROLINA - Adults have been observed on soybeans over most of Washington, Tyrrell, Beaufort and Hyde counties. Populations up to 1 per foot of row have been reported in Hyde County. Egg laying in weeds (cocklebur, ragweed, etc.) and soybeans is underway. Farmers who are aware of the fields with heaviest adult populations will have a handle on which fields should be harvested first. To date early harvest is only means of controlling loss. Adults are light gray about 1/4 inch long with long antenna. (Richardson, Department of Entomology; Hunt, Extension)



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SMALL FRUITS

SHARP-NOSED LEAFHOPPER (Scaphytopius magdalensis) - NORTH CAROLINA - Adults of the blueberry stunt vector were collected in Duplin County on 27 July and 3 August. A total of 25 vectors were collected in 3 fields, (Hunt, Extension)

FOREST AND SHADE TREES

GYPSY MOTH (Porthetria dispar) - NORTH CAROLINA - Three adult males have been caught in sexlure traps, 1 each in Orange, Davie, and Dare counties. In addition, a suspicious specimen has been collected in Cleveland and Beaufort counties. The positive collections were determined by personnel of the National Museum and personnel of U.S.D.A. (N.C.D.A.).

REDHEADED PINE SAWFLY (Neodiprion lecontei) - NORTH CAROLINA - Up to 80% defoliation occurred to long leaf pine yard plantings near Goldsboro, Wayne County. All small (10 ft. or less) slash and long leaf pines were damaged in this yard, however, a marked preference was shown for long leaf. (Lee, APHIS, N.C. Forest Service).

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - NORTH CAROLINA - A Dutch elm infested tree was found in Stanley County. This is the first confirmed report of the disease in the county. See enclosed map for known distribution of Dutch elm disease.

gdb/310

## SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.

During week of August 3-9

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Southern Field Crops</u>				
Wilson	2	Tobacco	Larvae	Variegated cutworm, <u>Peridroma saucia</u> , and Granulate cutworm, <u>Feltia subterranea</u>
Sampson	2	Cotton	Adult & larva	Boll weevil, <u>Anthonomus grandis</u> , and cabbage looper, <u>Trichoplusia ni</u>
<u>Man and Animals</u>				
Gaston	1	Bit child in home	Prob. larva	Glowworm, <u>Phengodes</u> sp.
Rowan	1	Dog	Larvae & nymphs	Brown dog tick, <u>Rhipicephalus sanguineus</u>
Lee	1	Earthworm bed	Larvae	Black larder beetle, <u>Dermestes ater</u>
<u>Grain, Soybeans, and Forages</u>				
Hoke	1	Corn	Larvae & pupae	European corn borer, <u>Ostrinia nubilalis</u>
Jones	1	Corn	Larvae	European corn borer, <u>Ostrinia nubilalis</u>
Chowan	1	Corn	Larva	Billbug, <u>Sphenophorus</u> sp.
<u>Forestry, Ornamentals and Turf</u>				
Wilson	1	Sycamore	Adults	Sycamore lace bug, <u>Corythucha ciliata</u>
Durham	1	Maple	Adults	Rosy maple moth, <u>Anisota rubicunda</u>
Columbus	1	Maple	Larvae	Greenstriped mapleworm, <u>Anisota rubicunda</u>
Caldwell	1	Fescue lawn	Adults	Grass moths, prob. <u>Crambus</u> sp.
Carroll	1	Sultana	All	Undet. spider mites
Bladen or Orange	1	Azalea	Old injury	Prob. azalea lace bug, <u>Stephanitis pyrioides</u>
Martin	1	Loblolly pine	Adults	Undet. Coccid scales
Beaufort	1	Pine	Larvae	Redheaded pine sawfly, <u>Neodiprion lecontei</u>
Vance	1	Walnut	Larva	Walnut caterpillar, <u>Datana integerrima</u>
Robeson	1	Lawn	Adult	Twoline spittlebug, <u>Prosapia</u> sp.
Lincoln	1	Dogwood	Nymphs	Undet. leafhoppers
Wake	1	Elm	Larvae & adults	Elm leaf beetle, <u>Pyrrhalta luteola</u>
Cabarrus	1	Sweet gum	Larvae	Epipaschiid moths, <u>Tetralopha</u> sp.
Cabarrus	1	Hickory	Larvae	Walnut caterpillar, <u>Datana integerrima</u>
Cabarrus	2	Oak	Larvae	Stenomid moth, <u>Stenoma</u> sp., and Noctuid moth, <u>Charadra deridens</u>
Bertie	1	Dogwood	Larva	Prob. Dogwood twig borer, <u>Oberea</u> prob. <u>tripunctata</u>
Wake	1	Juniper	Larvae	Bagworm, <u>Thyridopteryx ephemeraeformis</u>
Maryland state	1	Ligustrum	Adults	Undet. Diaspidid scales

## Summary of Specimens Processed by Insect Clinic, N.C.S.U.

Page 2

During week of August 3-9

## Forestry, Ornamentals and Turf (con't.)

Wake	2	Birch	Larva, & adults	Tussock moth, <u>Halisodota</u> sp., and lace bugs, <u>Corythucha pergandei</u>
McDowell	1	Oak	Larva	Greenstriped mapleworm, <u>Anisota rubicunda</u>
Rockingham	1	Hickory	Larvae	Walnut caterpillar, <u>Datana integerrima</u>
Cumberland	1	Oak	Larva	Noctuid moth, <u>Charadra deridens</u>
<u>Vegetables</u>				
Bertie	1	Parsley	Larvae	Black swallowtail, <u>Papilio polyxenes asterius</u>
Hoke	2	Tomato	Adult	Fleahopper, <u>Halticus</u> sp., and leaffooted bug, <u>Leptoglossus phyllopus</u>
Wake	1	Carrot	All	Undet. aphids
<u>Wood Destroying Insects</u>				
Wake	1	On kitchen counter top	Adult	Bark beetle, <u>Xyleborus</u> sp.
<u>Household &amp; Industrial</u>				
Beaufort	1	In kitchen	Larvae & adults	Indian meal moth, <u>Plodia interpunctella</u>
Lee	1	In feed for crickets	Larvae	Soldier flies, <u>Hermetia illucens</u>
Robeson	1	In home	Alate queen	Undet. ant
Cabarrus	1	Throughout home	Adults	Cigarette beetle, <u>Lasioderma serricorne</u>
Rowan	1	In meat case in grocery	Adult	Undet. black scavenger flies
<u>Fruit</u>				
Cumberland	1	Strawberry	Lar.&adults	Fuller rose beetle, <u>Pantomorus cervinus</u>
Jones	1	Grape	Old injury	Prob. grape curculio, prob. <u>Craponius inaequalis</u>
<u>Miscellaneous</u>				
Greene	1	Near sewer line	Larvae	Soldier flies, prob. or near <u>Stratiomys</u> sp.
Alamance	1	Dead on tree leaves	Adults	Prob. Cluster fly, Prob. <u>Pollenia rudis</u>
Hoke	1	In tomato patch	Adults	Greenhouse millipede, <u>Oxidus gracilis</u>
Columbus	1	On maple trunk	Larvae	Undet. bagworms
Northampton	1	On rose	Adult	Scarab beetle, <u>Trigonopeltastes delta</u>
Granville	1	Found on car	Larva	Hag moth, <u>Phobetron pithecium</u>
Virginia st.	1	--	Workers	Undet. ants
Hoke	1	At lights	Adult	Undet. dobsonfly
Wake	1	On porch	Larvae	Undet. crane flies



COOPERATIVE AGREEMENT  
Weekly Report \*

State North Carolina

Date August 17, 1972

Survey and Detection Operations  
Plant Pest Control Division  
Agricultural Research Service  
United States Department of Agriculture  
Federal Center Building  
Hyattsville, Maryland 20781

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AUG 18 1972

ENTOMOLOGY DEPT.

Our regular weekly insect report for the period August 12-18, 1972

was not submitted because annual leave.

*Thomas N. Hunt*

Survey Entomologist  
Thomas N. Hunt

Distribution:

- Copy - State Supervisor, PPC Div.
- Copy - Survey Entomologist

\* To be used for reporting activities for any weekly period for which insect reports have not been submitted, i.e., surveys, vacation periods, summary preparation, extreme weather conditions, illness, etc.



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# entomology

August 25, 1972

TO: Agricultural Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist *TNH*

SUBJECT: Insect Survey Report

## CORN, SORGHUM

A BILLBUG (Spenophorus prob. callosus) - NORTH CAROLINA - Reports of larval damage received from Beaufort and Pamlico Counties. Infestations heaviest near margin of fields, with populations as high as 5 larvae per stalk. However, fields observed with damage 100 feet or more into the field. Most fields are infested in this general area. (Hunt, Extension; Lytle)

SORGHUM MIDGE (Contarinia sorghicola) - Midge has been damaging sorghum in states south of North Carolina. Checks for midge in 5 sorghum fields along 64 Hwy. between Davidson and Wake Counties were negative. However, agents with sorghum responsibilities should consider enclosing some heads in plastic bags and observing for the tiny orange midge adults. Spider webs in the field are often good places to check for this tiny flying insect. (Hunt, Extension)

## COTTON

BOLLWORM (Heliothis zea) - NORTH CAROLINA - Heavy populations of bollworms showing up in some Robeson County fields near early maturing corn.



Heavy damage largely restricted to fields where spray schedules were not rigidly adhered to and/or miscalculations were made in insecticide rates. (Williford, Extension)

#### FOREST AND SHADE TREES

MIMOSA WEBWORM (Homadaula anisocentra) - NORTH CAROLINA - Reports of damage to honey locust and mimosa (10+ webs per tree observed) have been received from counties scattered over entire piedmont and southern coastal plain. See the attached clinic summary for counties submitting specimens. (Bowers, APHIS; Caudle, Morris)

GYPSY MOTH (Porthetria dispar) - Confirmation has been received concerning moths collected in Cleveland, Carteret and Wayne Counties. This year male gypsy moths have been collected in Dare, Orange, Davie, Cleveland, Carteret, and Wayne Counties. Determinations were made by V. Owens, USDA.

SOUTHERN PINE BEETLES (Dendroctonus frontalis) - Surveys conducted by the N. C. Forest Service reveal a general reduction in loss; however, some "hot spot" do remain in the northern piedmont. The enclosed map gives the number of beetle-killed spots (1 or more trees) per county. (Bowers, APHIS; N. C. Forest Service)

#### ORNAMENTALS

BAGWORM (Thyridopteryx ephemeraeformis) - NORTH CAROLINA - The annual concern over bagworms resulted in 10 - 15 reports of damage to juniper and other yard conifers this week. One hundred+ bags have been observed on junipers less than 20 feet tall. About only control this time of year is to pick them off and drop in kerosine. (Lott, APHIS; Hunt, Extension)

MAN AND ANIMALS

FACE FLY (Musca autumnalis) - Collections of adults were made for the first time from cattle in Chatham County. Populations to 10 per head were observed near Pittsboro. This is the most eastern infested county known in N. C. (Falter, Extension)

BENEFICIAL INSECTS

HORNWORM PARASITE (Apanteles congregatus) - NORTH CAROLINA - The percent of hornworms parasitized by Apanteles rose 10% (Aug. 17 - 23) in the 3 areas checked (Bladen - Columbus, Wilson - Wayne, and Surry Counties). Percent parasitization was highest in the Wilson - Wayne County area with 64% of the hornworms attacked. (Tobacco Pest Management Program)

CORRECTION:

Report of August 11, 1972 cited Beaufort County as a possible gypsy moth collection site. That should read Beaufort, Carteret County. Since then, this specimen was confirmed as a male gypsy moth.

bp/310



## SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.

During weeks of August 10-16 and 17-23

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Man and Animals</u>				
Wayne	1	Pigeons	Adult	Pigeon fly, <u>Pseudalynchia canariensis</u>
Catham	1	Cattle	Adults	Face fly, <u>Musca autumnalis</u>
Craven	1	Bit lady	Adult	Wheel bug, <u>Arilus cristatus</u>
<u>Corn, Soybeans and Forages</u>				
Hertford	1	Soybeans	Larva	Lesser cornstalk borer, <u>Elasmopalpus lignosellus</u>
Buncombe	1	Lespedeza	Adults	Fuller rose beetle, <u>Pantomorus cervinus</u>
<u>Forestry, Ornamentals and Turf</u>				
Wayne	1	Pine	Larvae	Redheaded pine sawfly, <u>Neodiprion lecontei</u>
Wake	1	Boxwood	Old injury	Undet. spider mites
C.	1	Centipede grass & boxwoods	Adults	Twolined spittlebugs, <u>Prosapia</u> sp.
Pwan	1	Willow oak	Old injury	Undet. spider mites
Anderson	1	Dogwood	Old galls	Prob. dogwood clubgall midge, prob. <u>Mycodiplosis clavula</u>
Wake	1	Morning glory	Larvae & adult	Golden tortoise beetle, <u>Metriona bicolor</u>
Wake	1	Juniper	Larvae	Bagworms, <u>Thyridopteryx ephemeriformis</u>
Rowan	2	Honey locust	Larvae	Mimosa webworm, <u>Homadula anisocentra</u> , and Tortricid moth, <u>Choristoneura parallela</u>
Ceene	1	Pine	Larvae	Bagworms, <u>Thyridopteryx ephemeriformis</u>
Richmond	1	Pine	Adult, laying eggs	Regal moth, <u>Citheronia regalis</u>
Legcombe	1	Maple	Larvae	Greenstriped mapleworm, <u>Anisota rubicunda</u>
Alexander	1	Crapemyrtle	Old injury	Prob. Crapemyrtle aphid, prob. <u>Tinocallis kahawaluokalani</u>
Simpson	1	Oak	Pupa	Noctuid moth, <u>Charadra deridens</u>
Cilford	1	Dogwood	Larva	Prob. Dogwood twig borer, <u>Oberea</u> prob. <u>tripunctata</u>
Franklin	1	Trees	Larvae	Fall webworm, <u>Hyphantria cunea</u>
Watauga	2	Black gum	Larvae & adults	Tupelo leafminer, <u>Antispila nysaefoliella</u> ; and Asiatic oak weevil, <u>Cyrtopistomus castaneus</u>
Moore	1	"Ivy"	Larva	Whitemarked tussock moth, <u>Hemerocampa leucostigma</u>
New Hanover	2	Red bay	Larva & nymphs	Spicebush swallowtail, <u>Papilio troilus</u> ; and undet. phylloxerans
Washington	1	Red maple	Adults	Undet. Diaspidid scales
Tyrell	1	Poplar	All	Undet. gall aphids, prob. <u>Pemphigus</u> sp.
Washington	1	Chinaberry	Adults	Undet. Diaspidid scales
Furke	1	Black gum	Larvae	Tupelo leafminer, <u>Antispila nysaefoliella</u>
Mecklenburg	1	Honey locust	Larvae	Mimosa webworm, <u>Homadula anisocentra</u>
Yancey	2	Weeping willow	Larvae	Mourning cloak butterfly, <u>Nymphalis antiopa</u> , and Tortricid moth, <u>Amorbia</u> prob. <u>humerosana</u>
Washington	1	Azalea	Larvae	Azalea leafminer, <u>Gracillaria azaleella</u>
Gaston	2	Azalea	Old injury	Azalea lace bug, <u>Stephanitis pyrioides</u> , and undet. spider mites
C. ange	1	Azalea	Old injury	Azalea lace bug, <u>Stephanitis pyrioides</u>

## Summary of Specimens Processed by Insect Clinic, N.C.S.U.

Page 2

During weeks of August 10-16 and 17-23

## Forestry, Ornamentals and Turf (con't.)

Union	1	Data insufficient		
Alleghany	1	Black gum	Larvae	Tupelo leafminer, <u>Antispila nysaefoliella</u>
Cumberland	1	Azalea	Larvae	Azalea caterpillar, <u>Datana major</u>
Pitt	1	Japanese maple	Larva	American dagger moth, <u>Acrionicta americana</u>
Buncombe	2	Weeping willow	Larvae	Sawflies, <u>Pteronidea</u> sp., and undet. leaf beetles
Warren	1	Azalea	Pupae	Azalea leafminer, <u>Gracillaria azaleella</u>
N. Y.	1	Poplar	Larvae	Sawflies, <u>Trichiocampus</u> sp.
Swain	1	Black walnut	Larvae	Walnut caterpillar, <u>Datana integerrima</u>
Onslow	1	Catalpa	Larva	Catalpa sphinx, <u>Ceratonia catalpae</u>
Cartaret	1	Azalea	Larvae	Azalea caterpillar, <u>Datana major</u>
Alamance	1	Japanese holly	Larva	Pale tussock moth, <u>Halisdota tessellaris</u>
McDowell	2	Elm	Larvae	Fall webworms, <u>Hyphantria cunea</u> , and bagworms, <u>Thyridopteryx ephemeraeformis</u>
Cumberland	1	Juniper, pine, tulip-tree	Larvae	Bagworms, <u>Thyridopteryx ephemeraeformis</u>
Washington	1	Sweet gum	Larvae	Fall webworm, <u>Hyphantria cunea</u>
Transylvania	1	Maple	Larvae	Undet. sawflies
Chatham	1	Arborvitae	Larvae	Bagworms, <u>Thyridopteryx ephemeraeformis</u>

## Vegetables (Commercial and Garden)

Wake	1	Snap beans	Old injury	Prob. stink bug
Wake	1	Wild asparagus	All	Asparagus beetle, <u>Crioceris asparagi</u>
Hoke	1	Tomato	Larvae	Tobacco hornworm, <u>Manduca sexta</u>
Lenoir	1	Butter beans	Larvae	Io moth, <u>Automeris io</u>
Pender	1	Collards	Nymphs & adults	Harlequin bug, <u>Murgantia histrionica</u>

## Household and Industrial Insects

Robeson	1	In storage room	Adults	Almond moth, <u>Cadra cautella</u>
Wake	1	In bathroom	Adult	Cigarette beetle, <u>Lasioderma serricorne</u>
Durham	1	Throughout home	Adult	Cigarette beetle, <u>Lasioderma serricorne</u>
Wake	1	In bathroom	Adult	Moth fly, <u>Telmatoxenus albipunctatus</u>
Wake	1	In home	Adults	Flesh flies, <u>Helicobia</u> sp.
Randolph	2	In bathroom	Nymphs	Booklice, <u>Liposcelis</u> sp. and undet. sp.

## Miscellaneous and Accidental Household

Wake	1	Entered store	Adult	Mole cricket, <u>Gryllotalpa</u> sp.
Buncombe	1	In home	Adult	Undet. Gnaphosid spider
Transylvania	1	In home	Adults	Carrion beetles, <u>Nicrophorus pustulatus</u>
Wake	1	Entering home	Adults	Fuller rose beetle, <u>Pantomorus cervinus</u>

Fruit				
Martin	1	Grape	Mostly old injury	Prob. grape curculio, prob. <u>Craponius inaequalis</u>
Rowan	1	Persimmon	All	Undet. spider mites
Henderson	1	Grape	Larvae	Undet. gall midges
Wake	1	Apple	Larvae	Red-spotted purple butterfly, <u>Limenitis arthemis astyanax</u>

## Summary of Specimens Processed by Insect Clinic, N.C.S.U.

Page 3

During weeks of August 10-16 and 17-23

## Miscellaneous

Amberland	1	In yard	Adult	Wild cherry moth, <i>Apatelodes torrefacta</i>
Montgomery	1	On tree	Adults	Regal moth, <i>Citheronia regalis</i>
Rowan	1	On window sill	Adult	Regal moth, <i>Citheronia regalis</i>
Wilford	1	Compost pile	Larvae	Soldier flies, <i>Hermetia illucens</i>
Leveland	1	In woods	Adult	Rosy maple moth, <i>Anisota rubicunda</i>
Orange	1	On maple	Adult	Hackberry butterfly, <i>Asterocampa</i> sp.
Anderson	1	At base of brick wall	Larva in cocoon	American dagger moth, <i>Acronicta americana</i>
Robeson	2	On pecan	Adults	Citheroniid moth, <i>Anisota</i> sp., and Arctiid moth, <i>Epantheria deflorata</i>
Wake	1	In yard	Adults	Flatworms, <i>Bipalium kewense</i>
	1	Data insufficient		
Alexander	1	Around home	Larvae	Cecropia moth, <i>Platysamia cecropia</i>
Green	3	Light trap	Adults	Regal moth, <i>Citheronia regalis</i> ; rosy maple moth, <i>Anisota rubicunda</i> ; and a Citheroniid moth, <i>Anisota</i> sp.
Pasquotank	1	On building	Adult	Regal moth, <i>Citheronia regalis</i>
Wake	1	On pine	Adult	Arctiid moth, <i>Epantheria scribonia</i>
Watauga	1	In beetle burrows in bark of black gum	Adults	Sphecid wasps, prob. <i>Crossocerus</i> sp.
Martin	1	On door	Adult	Walnut sphinx, <i>Cressonia juglandis</i>
Sampson	1	Data insufficient		
Laden	1	On window	Adult	Wild cherry moth, <i>Apatelodes torrefacta</i>
Wake	1	At lights	Adult	Pandora sphinx moth, <i>Eumorpha pandorus</i>
Guilford	2	Iris rhizomes	Larvae	Lesser bulb fly, <i>Eumerus</i> sp., and undet. Otitid flies
Dowell	1	On trees	Adult	Arctiid moth, <i>Epantheria scribonia</i>
Lincoln	1	Flying	Adult	Scoliid wasp, <i>Scolia dubia</i>
Caswell	1	Resting on oak	Adult	Arctiid moth, <i>Epantheria scribonia</i>
Lincoln	1	--	Adult	Polyphemus moth, <i>Antheraea polyphemus</i>
Leveland	1	On grape leaves	Eggs	Prob. stink bugs
Rowan	1	No data received		



# entomology

September 1, 1972

TO: County Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

RECEIVED  
 SEP 5 1972  
 ENTOMOLOGY DEPT

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, N. C.

ATTENTION:

Light trap collection of corn earworm adults have increased sharply in last 2 weeks. The earlier trend (Insect Survey Note, August 11) has been reversed. Eggs and small larvae (1-3 instar or stage of development) are very heavy in some soybean fields. See corn earworm in this report. This situation demands immediate attention in the southern Coastal Plain.

CORN

EUROPEAN CORN BORER (Ostrinia nubilalis) - NORTH CAROLINA - Lodging is occurring in some fields over entire state. Spot checks reveal lodging in excess of 5% of the stalks rare. Two fields visited in Northampton County have populations of 300 + cavities per 100 plants. Harvest should be completed as soon as possible. (Long, Ext., Hunt, Ext.).



SOYBEANS

CORN EARWORM (Heliothis zea) - NORTH CAROLINA - The populations of early instar corn earworm larvae is extremely high in many late soybean fields. Sampling revealed 8 larvae per foot of row in 3 of 10 soybean fields checked along Highway 11 in Duplin County. Fields in the Columbia-Bladen County area have been surveyed which have 2 larvae per ft. of row. Late fields with open middles are most likely to have damaging populations. Late instar larvae (about 1 in. long and larger) are more damaging to the pods than the earlier stages. Finding these fields at or near the threshold level (some information says 1 larva per ft. of row and some 3 per ft. of row) is a matter of sampling. Population increases in the northern counties are usually one to two weeks later than in southern Coastal Plain counties. (Hunt, Ext., Pleasants, Dept. of Entomology).

PEANUTS

SOUTHERN CORN ROOTWORM (Diabrotica undecimpunctata howardi) - NORTH CAROLINA - Twelve peanut fields surveyed in Northampton County revealed populations between 4 and 12 larvae under each plant. One plant examined had 10 of 12 peanuts damaged. (Long, Ext., Hunt, Ext.).

TWOSPOTTED SPIDER MITES (Tetranychus urticae) - NORTH CAROLINA - Spots to one acre observed with advanced yellowing and dead leaves due to mites in Northampton County. Webbing was pronounced in smaller spots (500 sq. ft.) with thousands of mites per leaf in these webbed spots. Damage occurred on about 20,000 acres in the Halifax-Northampton County area in 1971. There is no reason to think this figure will be reduced in 1972. Resistance to chemical controls causing problems. (Long, Ext.)

FEDERAL AND STATE PLANT PROTECTION PROGRAMS

GYPSY MOTH (Porthetria dispar) - NORTH CAROLINA - Another male gypsy moth has been collected from a sexlure trap on I-95 near Selma, Johnston County. Collections to date have been made in Dare, Orange, Davie, Cleveland, Carteret, Wayne and Johnson, Counties, (Granberry, APHS).

## SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.

During week of August 24-30

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Southern Field Crops</u>				
Bladen	1	Peanuts	Larvae	Prob. Tobacco budworm, <u>Heliothis prob. virescens</u>
<u>Man and Animals</u>				
Wake	1	Dog	Nymphs	Brown dog tick, <u>Rhipicephalus sanguineus</u>
<u>Grain, Soybeans and Forages</u>				
Beaufort	2	Corn	Larvae	European corn borer, <u>Ostrinia nubilalis</u> and billbugs, <u>Sphenophorus</u> sp.
Camlico	1	Corn	All	Billbugs, <u>Sphenophorus callosus</u>
Lee	1	Soybeans	Adult	Longhorned beetle, <u>Dectes texanus</u>
<u>Forestry, Ornamentals and Turf</u>				
Wain	1	Walnut	Larvae	Redhumped caterpillars, <u>Schizura concinna</u>
Wancey	1	Norway maple	Shed or parasitized skins	Tussock moths, <u>Halisidota</u> sp.
Greene	1	White pine	Larvae	Redheaded pine sawfly, <u>Neodiprion lecontei</u>
Caldwell	Data insufficient			
Madkin	1	Pine	Larvae & pupae	Pine tip moths, <u>Rhyacionia</u> sp.
Jones	1	Loblolly pine	Larvae & pupae	Pine tip moths, <u>Rhyacionia</u> sp.
Moore	1	Holly	Crawlers	Wax scales, <u>Ceroplastes</u> sp.
Person	1	Willow oak	Larvae	Undet. gall midges
Burke	1	Oak	Larvae	Orangestriped oakworm, <u>Anisota senatoria</u>
Cleveland	1	Scotch pine	Old injury	Prob. pine bark aphid, prob. <u>Pineus strobi</u>
Cleveland	1	Red cedar	Old injury	Undet. spider mites
Surry	1	Black oak	Crawlers	Undet. Coccid scales
Waston	1	Deodar cedar	Larvae	Redheaded pine sawfly, <u>Neodiprion lecontei</u>
Randolph	1	Sourwood	Larva	Undet. Limacodid moth
Harnett	1	Japanese holly	Crawlers	Wax scale, <u>Ceroplastes</u> sp.
Harnett	1	Red maple	Adults	Diaspidid scales, <u>Melanaspis</u> sp.
Tyrrell	1	Azalea	Larva	Azalea caterpillar, <u>Datana major</u>
Wedgecombe	1	Chinese elm	Larvae	Elm leaf beetle, <u>Pyrrhalta luteola</u>
Wabarrus	1	Hemlock	Old injury	Undet. spider mites
Washington	1	Juniper	Old injury	Undet spider mites
Currituck	1	Euonymus	Adults	Prob. Euonymus scale, prob. <u>Unaspis euonymi</u>
Harnett	1	Sugar maple	Larva	Olethreutid moth, <u>Episimus</u> near <u>tyrius</u>
<u>Vegetables</u>				
Warren	1	Cantaloupe	Larva	Undet. leaf beetle
Wilson	1	Lima bean	Larvae	Limabean vine borer, <u>Monoptilota pergratialis</u>
Wilmington	1	Pumpkin	Larva	Squash vine borer, <u>Melittia cucurbitae</u>

## Summary of Specimens Processed by Insect Clinic, N.C.S.U.

Page 2

During week of August 24-30

<u>Wood Destroying Insects</u>				
Wake	1	In roof of home	Larva	Longhorned beetle, prob. <u>Orthosoma brunneum</u>
<u>Household and Industrial Insects</u>				
Wilson	1	In house	Adults	Almond moth, <u>Cadra cautella</u>
Wake	1	Clothes closet	Adults	Red flour beetle, <u>Tribolium castaneum</u>
<u>Miscellaneous &amp; Accidental Household</u>				
Orange	1	Nesting in holes in beams	Adults	Sphecid wasps, <u>Trypoxylon</u> sp.
Robeson	1	In garage of new home	Adults	Scarab beetle, <u>Ataenius</u> sp.
Wilkes	1	In home	Adults	Asiatic oak weevil, <u>Cyrtopistomus castaneus</u>
Orange	1	In apartment	Young	Black widow spider, <u>Latrodictus mactans</u>
Pender	1	In home	Adult	Undet. sphinx moth
<u>Fruit</u>				
Orange	1	Pecan	Larva	Hickory horned devil, <u>Citheronia regalis</u>
Alamance	1	Grape	Larvae	Undet. sawflies
Wake	1	Apple	Larvae	Bagworms, <u>Thyridopteryx ephemeraeformis</u>
Burke	1	Blueberry	Larvae	Yellownecked caterpillar <u>Datana ministra</u>
<u>Miscellaneous</u>				
Robeson	1	Resting on peanut leaves	Adults	Arctiid motns, <u>Diacrisia virginica</u>
Granville	1	Flying over lawn	Adults	Scoliid wasps, <u>Scolia dubia</u>
Moore	2	At lights	Adults	Regal moth, <u>Citheronia regalis</u> and polyphemus moth, <u>Antheracea polyphemus</u>
Alamance	1	"Weeds"	Larvae	Undet. Sawflies
Caswell	1	In yard	Adults	Scoliid wasps, <u>Scolia dubia</u>
Robeson	1	--	Adult	Rosy maple moth, <u>Anisota rubicunda</u>
Rockingham	1	--	Adult	Regal moth, <u>Citheronia regalis</u>
Gaston	1	Under mulch	Adult	Terrestrial flatworm, <u>Bipalium kewense</u>
Guilford	1	Flying over yard	Adult	Scoliid wasp, <u>Scolia dubia</u>
Caldwell	1	Data insufficient		



# entomology

RECEIVED September 8, 1972

TO: County Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist *TNH*

SEP 11 1972

SUBJECT: Insect Survey Report

ENTOMOLOGY DEPT.

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist

Raleigh, North Carolina

SOYBEANS

CORN EARWORM (Heliothis zea) - NORTH CAROLINA - Checks in 10 late Robeson and Cumberland County soybean fields indicate that the majority of the corn earworm larvae are in the 5th or 6th stage of development. Damaged pods reveal that in most of the fields observed pupation has already taken place. Larvae in counties north of Robeson County may have a two week time lag. Farmers planning to treat should definitely survey their fields immediately before treatment. There is no need to treat if the larvae have pupated. Remember the consensus of Extension Entomology at N. C. State is that 1 larva per 3 feet of row is the threshold level. (Hunt, Ext., APHIS, Lumberton Dist.)

COTTON

CABBAGE LOOPER (Trichoplusia ni) - NORTH CAROLINA - Light damage observed in both Scotland-Robeson County area and the Northampton-Halifax



County area. Noticeable defoliation rarely exceeded 1/4 acre and was restricted to border rows. (Hunt, Ext., Long, Ext.)

FOREST AND SHADE TREES

SMALLER EUROPEAN ELM BARK BEETLE (Scolytus multistriatus) - NORTH CAROLINA -

Dutch elm disease has been reported in Stokes and Cleveland Counties. Mecklenburg County was omitted from the distribution map published in Insect Survey Note, 11 August 1972. However, the disease was discovered in that county several years ago. If you know of similar errors in the future, bring it to the attention of the Extension Survey Entomologist; we are all in this together. (N. C. Forest Service, Hunt, Ext.)

BENEFICIAL INSECTS

BUCKEYE BUTTERFLY (Precis coenia)- NORTH CAROLINA - Larvae of this insect have been observed feeding on witchweed in at least 2 Robeson County cornfields. In one field, 40-50% of the 200+ witchweed plants observed had been fed on. Ten to 15% had been eaten to the ground with no sprouting. Sprouting occurred in some cases but could not be evaluated accurately. Approximately 20 larvae from 3rd instar up were observed. Earlier observations and damage indicated a heavier population was in the area. (Mears, Faircloth, APHIS, Hunt, Ext.)

cs/310

CABBAGE MOTHS (Trichoplusia ni) - NORTH CAROLINA - Light damage



## SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.

During week of August 31 - September 6

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Southern Field Crops</u>				
Wake	1	Cotton, in greenhouse	Larvae	Cabbage looper, <u>Trichoplusia ni</u>
<u>Man and Animals</u>				
Wilmington	1	Cat	Larvae	Blowflies, prob. <u>Phaenicia sericata</u>
<u>Grain, Soybeans and Forages</u>				
Wake	1	Corn, in greenhouse	Larva	Fall armyworm, <u>Spodoptera frugiperda</u>
Robeson	1	Soybeans	Larvae	Corn earworms, <u>Heliothis zea</u>
<u>Forestry, Ornamentals and Turf</u>				
McDowell	1	Oak	Galls	Undet. gall wasps
McDowell	1	Birch	Larvae	Dusky birch sawfly, <u>Croesus latitarsus</u>
Northampton	1	Data insufficient		
Wake	1	Hickory	Adult	Pigeon tremex, <u>Tremex columba</u>
Wayne	1	Rose	Eggs	Undet. katydid
Wake	1	Black jack oak	Larvae	Notodontid moths, <u>Datana</u> sp.
Scotland	1	Japanese holly	Adults	Undet. mealybugs
Edgecombe	1	Silver maple	Adults	Undet. Diaspidid scales
Cherokee	1	Amer. boxwood	Adults	Undet. Diaspidid scales
Lincoln	1	Water oak	Larvae	Yellownecked caterpillar, <u>Datana ministra</u>
Martin	1	White oak	Larvae	Notodontid moths, <u>Datana</u> sp.
Robeson	1	Oak	Larvae	Yellownecked caterpillar, <u>Datana ministra</u>
Wake	1	Lilac	Larva	Lilac borer, <u>Podosesia s. syringae</u>
<u>Vegetables (Commercial &amp; Garden)</u>				
Caswell	1	Eggplant	Adults	Margined blister beetle, <u>Epicauta pestifera</u>
<u>Wood Destroying Insects</u>				
Franklin	1	On porch floor	Nest debris	Carpenter ants, <u>Camponotus</u> sp.
<u>Household &amp; Industrial Insects</u>				
Davie	1	Kitchen	Adults	Cigarette beetles, <u>Lasioderma serricorne</u>
Montgomery	1	In pantry	Adults	Sawtoothed grain beetle, <u>Oryzaephilus surinamensis</u>
Caswell	1	In basement	Adults	Greenhouse millipede, <u>Oxidus gracilis</u>
Robeson	1	In attic	Workers	Bumblebees, <u>Bombus pennsylvanicus</u>
<u>Miscellaneous &amp; Accidental Household</u>				
Swain	2	Around windows	Young and adults	Filistatid spider, prob. <u>Filistata hibernalis</u> , and dark winged fungus gnats, <u>Bradysia</u> sp.
<u>Fruit</u>				
Perquimans	1	Apple	Adults	Prob. San Jose scale, prob. <u>Quadraspidiotus perniciosus</u>
Cherokee	1	Pecan	Old injury	Undet. spittlebugs

## Summary of Specimens Processed by Insect Clinic, N.C.S.U.

Page 2

During week of August 31 - September 6

## Fruit (Continued)

Wake	1	Grape	Old injury	Prob. grape curculio, prob. <u>Craponius inaequalis</u>
Gaston	1	Pecan	Larva	Hickory horned devil, <u>Citheronia regalis</u>
<u>Miscellaneous</u>				
Robeson	1	Witchweed	Larvae	Buckeye butterfly, <u>Pracis coenia</u>
Catawba	1	Flying over lawn	Adult	Scoliid wasp, <u>Scolia dubia</u>
Harnett	1	--	Adult	Imperial moth, <u>Eacles imperialis</u>
Richmond	1	In barbecue grill	Adult	Prob. pinkstriped oakworm, <u>Anisota</u> prob. <u>virginiensis</u>
Wake	1	In carport	Adults	Darkwinged fungus gnats, <u>Bradysia</u> sp.
Harnett	1	Swarming around tree	Adults	Darkwinged fungus gnats, <u>Bradysia</u> sp.
Greene	2	In car	Adults	Promethea moth, <u>Callosamia promethea</u> , and Imperial moth, <u>Eacles imperialis</u>
Rutherford	1	On flowers	Adult	Rosy maple moth, <u>Anisota rubicunda</u>
Wake	1	In yard	Adult	Cicada killer, <u>Sphecius speciosus</u>
Rowan	1	Dead in yard	Adult	Arctiid moth, <u>Ecpantheria scribonia</u>
Wayne	1	Swarming over lawn	Adults	Scoliid wasps, <u>Scolia dubia</u>
Robeson	1	In yard	Workers	Carpenter ants, <u>Camponatus americanus</u>
Robeson	1	On grass and weed stems	Pupae	Undet. Braconid wasps
McDowell	1	At lights	Adult	Undet. sphinx moth
Davie	1	Data insufficient		



RECEIVED

SEP 25 1972  
ENTOMOLOGY DEPT.

entomology

September 22, 1972

TO: County Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist J.N.H.  
 SUBJECT: Insect Survey Report

## NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, N. C.

## CORN

EUROPEAN CORN BORER (Ostrinia nubilalis) - NORTH CAROLINA -

European corn borer in conjunction with low soil moisture reducing yields in late corn. Infestations to 13 larvae per stalk observed in Robeson County. Lodging is also becoming a serious problem in some heavily infested fields. However, lodging is generally below 5% of the stalks and harvest is underway throughout Coastal Plain and Piedmont. (Hunt, Ext.).

## PEANUTS

SOUTHERN CORN ROOTWORMS (Diabrotica undecimpunctata howardi) -

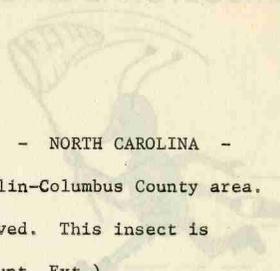
NORTH CAROLINA - Reports of damage and spot checks indicate heaviest damage in Halifax-Northampton County area. Damage from this insect has been completed. Little reduction in loss will be achieved by treating peanuts this late. (Hunt, Ext.).



SOYBEANS

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - NORTH CAROLINA -  
 Light foliage feeding occurring to soybeans in Duplin-Columbus County area.  
 Infestations to 4 per 5 foot sample have been observed. This insect is  
 rarely a problem to soybeans in North Carolina. (Hunt, Ext.).

dh/310



SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.  
 During week of Sept. 14-20, 1972

County collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Man and Animals</u>				
ampson	1	Livestock market	Larvae	Prob. house fly, prob. <u>Musca domestica</u>
<u>Rain, Soybeans and Forages</u>				
Guilford	1	Soybeans	Adults	Weevils, <u>Lixus</u> sp.
Wake	1	Soybeans	Adults	Whitefringed beetles, <u>Graphognathus</u> sp.
Dodgecombe	1	Soybeans	Adults	Margined blister beetle, <u>Epicauta pestifera</u>
Columbus	2	Soybeans	Larvae & adults	Velvetbean caterpillar, <u>Anticarsia gemmatalis</u> , and Fuller rose beetle, <u>Pantomorus cervinus</u>
Bladen	2	Soybeans	Pupae, & adults	Mexican bean beetle, <u>Epilachna varivestis</u> , and prob. threecornered alfalfa hopper, prob. <u>Spissistilus festinus</u>
<u>Forestry, Ornamentals and Turf</u>				
Transylvania	1	Lawn	Larvae	White grubs, <u>Cyclocephala</u> sp.
Transquokank	1	Catalpa	Larva	Catalpa sphinx, <u>Ceratonia catalpe</u>
Wake	1	Loblolly pine	Larvae	Pine tip moth, <u>Rhyacionia</u> sp.
Wancey	2	Flowering crabapple	Larvae	Hag moth, <u>Phobetron pithecium</u> , and skiff caterpillar, <u>Prolimacodes badia</u>
Wenderson	1	Sourwood	Larvae	Yellownecked caterpillar, <u>Datana ministra</u>
Wyde	1	Azalea	Larvae	Azalea caterpillar, <u>Datana major</u>
Perquimans	1	No data received		
Aswell	1	Oak	Larvae	Orangestriped oakworms, <u>Anisota senatoria</u>
Wase	1	Lawn	Larva	Green June Beetle, <u>Cotinis nitida</u>
Forsyth	1	Turf	Larvae	prob. Southern masked chafer, <u>Cyclocephala</u> prob. <u>immaculata</u>
Davidson	2	Willow	Larvae, and old galls	Sawflies, <u>Nematus</u> prob. <u>odoratus</u> , and undet. Eriophyid mites
Wake	2	Willow oak	Larvae	Yellownecked caterpillar, <u>Datana ministra</u> , & orangestriped oakworm, <u>Anisota senatoria</u>
Chowan	1	Maple	Larvae	Greenstriped mapleworm, <u>Anisota rubicunda</u>
Wilmington	1	Dogwood (?)	Larvae	Hickory horned devil, <u>Citheronia regalis</u>
Warren	1	Water oak	Larvae	Orangestriped oakworms, <u>Anisota senatoria</u>
Richmond	1	Rose	Larvae	Prob. unicorn caterpillar, <u>Schizura</u> prob. <u>unicornis</u>
Orange	2	Beech	Larvae	Puss caterpillars, <u>Megalopyge opercularis</u> , & a skiff caterpillar, <u>Prolimacodes badia</u>
Wilmington	1	Chinese bamboo	Larva	Saddleback caterpillar, <u>Sibine stimulea</u>
Wilmington	1	Honey locust	Larvae	Mimosa webworm, <u>Homadaula anisocentra</u>

Summary of Specimens Processed by Insect Clinic, N.C.S.U.  
 During week of Sept. 14-20, 1972  
 Page 2

Robeson	1	Holly	Adults	Fuller rose beetle, <u>Pantomorus cervinus</u>
Moore	1	Wisteria	Larva	Puss caterpillar, <u>Megalopyge opercularis</u>
Robeson	2	Elm	Larvae	Whitemarked tussock moth, <u>Hemerocampa leucostigma</u> , and Notodontid moth, <u>Schizura</u> sp.
Alleghany	2	Sycamore	Larvae	Poss. maple trumpet skeletonizer, <u>Epinotia</u> near <u>aceriella</u> , and a Tortricid moth, <u>Amorbia</u> prob. <u>humerosana</u>
Randolph	1	Water oak	Larvae	Orangestriped oakworms, <u>Anisota senatoria</u>
Wake	2	Juniper	Adults, and old injury	Undet. Diaspidid scales, and undet. spider mites
<u>Vegetables</u> Sampson	1	Squash	Larvae	Pickleworm, <u>Diaphania nitidalis</u>
<u>Household &amp; Industrial</u>				
Rockingham	1	Throughout home	Adults	Cowpea weevil, <u>Callosobruchus maculatus</u>
Wake	1	Throughout home	Adults	Cigarette beetles, <u>Lasioderma serricorne</u>
	1	Wool carpet	Old injury	Prob. casemaking clothes moth, prob. <u>Tinea pellionella</u>
Guilford	1	Kitchen	Adults	Cigarette beetles, <u>Lasioderma serricorne</u>
Vance	1	On walls in home	All	Booklice, <u>Liposcelis</u> sp.
Orange	2	Kitchen cabinets	All	Booklice, <u>Liposcelis</u> sp., and undet. Psyllipsocid booklice
Burke	1	Pantry	Adults	Indian meal moth, <u>Plodia interpunctella</u>
New Hanover	1	Bags of feed	All	Undet. Acarid mites
<u>Fruit</u>				
Cumberland	1	Apple	Larva	Saddleback caterpillar, <u>Sibine stimulea</u>
Sampson	1	Muscadine grape	Larva	Undet. spinx moth
<u>Miscellaneous</u>				
Wake	1	By barn	Adult	Greenhouse stone cricket, <u>Tachycines asynamorus</u>
Halifax	1	On ground	Larva	Hickory horned devil, <u>Citheronia regalis</u>
Burke	1	In yard	Larva	Orangestriped oakworm, <u>Anisota senatoria</u>
Columbus	2	On underside of mobile home, and on tire of motor grader	Pupae	Tent caterpillar, <u>Malacosoma</u> sp., and Buckeye butterfly, <u>Precis coenia</u>

OCT 2 1972

ENTOMOLOGY DEPT.

entomology

September 29, 1972

TO: County Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, N. C.

SOYBEANS

VELVETBEAN CATERPILLAR (Anticarsia gemmatilis) - NORTH CAROLINA -  
 Light foliage feeding continues in most soybean fields of the Central and Southern  
 Coastal Plain. Infestations to 6 per 5 foot sample have been observed in Duplin,  
 Wayne and Bladen Counties. This insect has not been a serious pest of soybeans in  
 North Carolina, but states further south often treat soybeans to control the  
 velvetbean caterpillar. (Hunt, Ext.).

COLE CROPS

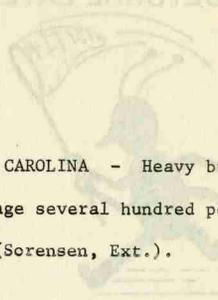
CABBAGE LOOPER (Trichoplusia ni) - NORTH CAROLINA - Cabbage loopers aver-  
 age 2 to 3 per plant in cabbage fields of Pasquotank and Hyde Counties. Controls  
 essential. (Sorensen, Ext.).

BEE T ARMYWORM (Spodoptera exigua) - NORTH CAROLINA - Serious damage  
 occurring to occasional cabbage plants in Pasquotank County as a result of gregari-  
 ous larval feeding. Egg masses also observed in several locations. (Sorensen, Ext.).



POTATOES, TOMATOES, PEPPERS

Prob. GREEN PEACH APHID (Myzus persicae) - NORTH CAROLINA - Heavy buildup of this aphid in Hyde County bell peppers. Counts average several hundred per plant. Controls are to be instigated in many fields. (Sorensen, Ext.).



September 27, 1947

County Extension Agents and Other Interested Persons

WNC

Thomas M. Hunt, Survey Entomologist

INSECT: Insect Survey Report

dh/310

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report compiled by: Thomas M. Hunt, Survey Entomologist Raleigh, N. C.

REPORT

MYZUS PERSICAE (L.) - NORTH CAROLINA

Light foliage feeding continues in most pepper fields of the Central and Southern Coastal Plain. Infestations to 5 per 5 foot sample have been observed in Duplin, Wayne and Wake Counties. This insect has not been a serious pest of peppers in North Carolina, but states further south often advise to control the

colony with insecticides. (Hunt, Ext.).

COLE CROPS

TRIPLOPHORA (L.) - NORTH CAROLINA - Cabbage looper over-

age 3 or 4 per plant in cabbage fields of Edgecombe and Hyde Counties. Controls essential. (Sorensen, Ext.).

TRIPLOPHORA (L.) - NORTH CAROLINA - Serious damage

occurring in occasional cabbage plants in Edgecombe County as a result of propagating the insect. Egg masses also observed in several locations. (Sorensen, Ext.).



## SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.

During week of Sept. 21-27, 1972

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Southern Field Crops</u>				
Northampton	1	Peanuts	All	Undet. spider mites
Edgecombe	1	Peanuts	All	Undet. spider mites
<u>Man and Animals</u>				
Lincoln	1	Baby calf	Larvae	Secondary screwworm, <u>Cochliomyia macellaria</u>
Durham	1	Fishworm bed	All	Undet. Podurid springtails
Pender	1	Humans	Nymphs	Lone star tick, <u>Amblyomma americanum</u>
<u>Grain, Soybeans and Forages</u>				
Moore	1	Soybeans	Larva	To moth, <u>Automeris io</u>
Cleveland	3	Corn	Larva, larvae & adults	Corn earworm, <u>Heliothis zea</u> ; cabbage looper, <u>Trichoplusia ni</u> ; and dusky sap beetle, <u>Carpophilus lugubris</u>
Harnett	1	Corn	Larvae	Fall armyworm, <u>Spodoptera frugiperda</u>
Pamlico	1	Soybeans	Larva	European corn borer, <u>Ostrinia nubilalis</u>
<u>Forestry, Ornamentals and Turf</u>				
Wake	1	Willow Oak	Larvae	Undet. gall midges
Wake	1	Redbud	Larvae	Undet. longhorned beetles
Lee	1	Pine	Larva	Pine devil, <u>Citheronia sepulchralis</u>
Rockingham	1	Redbud	Larvae	Hackberry leaf slug, <u>Norape cretata</u>
Jamison	1	Locust	Larvae	Prob. unicorn caterpillar, <u>Schizura</u> prob. <u>unicornis</u>
Wake	1	Geranium	Larva	Whitemarked tussock moth, <u>Hemerocampa leucostigma</u>
Wake	1	Lobivia catus	All	Undet. Tenuipalpid mites
Wake	1	Asparagus fern	All	Undet. spider mites
Laden	2	Pine	Adults, larvae & adults	Pinhole borers, <u>Platypus flavicornis</u> , and black turpentine beetles, <u>Dendroctonus terebrans</u>
Wake	1	Lawn	Adults	Undet. grass moths
Caldwell	1	Turf	Adult	Ground beetle, <u>Anisoderus lineola</u>
Wake	1	White pine	Larva	Pine sawyer, <u>Monochamus</u> sp.
Wake	2	Oak	Larvae	Orangestriped oakworms, <u>Anisota senatoria</u> , tussock moth, <u>Halisodota</u> sp.
Wake	1	Oak	Larva	Orangestriped oakworm, <u>Anisota senatoria</u>
Lincoln	1	Flying about yard	Adults	Undet. grass moths
McDowell	1	Christmas fern	All ?	Undet. Coccid scales
Rockingham	1	"Gloriosa daisy"	Larvae	Undet. Geometrid moths

## Summary of Specimens Processed by Insect Clinic, N.C.S.U.

During week of Sept. 21-27, 1972

Page 2

<u>Forest, Ornamentals and Turf (con't.)</u>				
Rowan	2	Pine	Pupa & adult	Pine tip moth, <u>Rhyacionia</u> sp.; and bark beetle, <u>Pityophthorus</u> sp.
McDowell	1	Elm	Larva	Imperial moth, <u>Eacles imperialis</u>
Alamance	1	Azalea	Old injury	Azalea lace bug, <u>Stephanitis pyrioides</u>
Wake	1	Rose	Larva	Puss caterpillar, <u>Megalopyge opercularis</u>
Burke	2	Dahlia	Adults	Black blister beetle, <u>Epicauta pennsylvanica</u> , & cocklebur weevil, <u>Rhodoabaenus tredecimpunctatus</u>
Wake	1	Greenbriar	Larvae	Noctuid moths, <u>Phosphila turbulenta</u>
Gaston	1	Red oak	Larva	Tussock moth, <u>Halisodota</u> sp.
Lee	1	Redbud	Larvae	Hackberry leaf slug, <u>Norape cretata</u>
<u>Vegetables</u>				
Pitt	1	Cucumber	Larva	Cabbage looper, <u>Trichoplusia ni</u> .
Hyde	1	Pepper	All	Green peach aphid, <u>Myzus persicae</u>
Hyde	1	Carrot	Old injury	Undet. leafminer, prob. a fly
Cleveland	1	Collards	Larvae	Cabbage looper, <u>Trichoplusia ni</u>
Pasquotank	1	Cabbage	Larvae	Beet armyworm, <u>Spodoptera exigua</u>
Wake	1	Tomato	All	Undet. aphids
<u>Household and Industrial</u>				
Rowan	1	On wall in bedroom	Larva	Casemaking clothes moth, <u>Tinea pellionella</u>
Transylvania	1	In basement	Adults	Angoumois grain moth, <u>Sitotroga cerealella</u>
<u>Miscellaneous and Accidental Household</u>				
Alleghany	1	Entering home	Larvae	Tussock moth, <u>Halisodota</u> sp.
Tredell	1	In empty house	Adult	Wolf spider, <u>Lycosa</u> poss. <u>avida</u>
<u>Fruit</u>				
Wake	2	Apples in storage	Larva, & Larvae & puparia	Oriental fruit moth, <u>Grapholitha molesta</u> ; prob. apple maggot, prob. <u>Rhagoletis pomonella</u>
Rockingham	1	Apple	Larvae	Puss caterpillar, <u>Megalopyge opercularis</u>
<u>Miscellaneous</u>				
Columbus	1	Flying over lawn	Adults	Scoliid wasps, <u>Scolia dubia</u>
Rockingham	1	In yard	Adult	Arctiid moth, <u>Epantheria scribonia</u>
Ashe	1	On stump	Pupae	Monarch butterfly, <u>Danaus plexippus</u>
Hyde	1	Weeds at edge of cabbage & pepper fields	Adults	Pyralid moth, <u>Hymenia</u> prob. <u>fascialis</u>

Summary of Specimens Processed by Insect Clinic, N.C.S.U.

During week of Sept. 21-27, 1972

Page 3

Miscellaneous (con't.)				
Edgecombe	1	In swimming pool	Adult	Undet. backswimmer
Hertford	1	On peanut hull	-	Specimens destroyed in shipment

RECEIVED

OCT 9 1972

ENTOMOLOGY DEPT.

entomology



October 6, 1972

TO: County Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

## NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

## TOBACCO

BUDWORM (Heliothis sp.) - NORTH CAROLINA - Population of larvae heavy in the Coastal Plain on regrowth tobacco, especially on the sucker growth of cut stalks that have not been plowed out. Spot checks revealed 1 larvae per bud (often 5+ per cut stalk) in fields from Wilson County southward. Detectable parasitism was low. (Ganyard, Tob. Pest Mgt. Program, U.S.D.A.).

## FOREST AND SHADE TREES

TYPICAL SAWFLY (Nematus prob. odoratus) - NORTH CAROLINA - Heavy defoliation occurred to willows along Yadkin River in Davidson County area. Thousands of willow trees defoliated during August. Willows are very important erosion checks. (Bowers, APHIS).

## HOUSEHOLDS AND STRUCTURES

ORIENTAL POWDER POST BEETLE (Heterobostrychus aequalis (Waterhouse)) -



NORTH CAROLINA - Adults were intercepted in mahogany freight flats from Malaysia at Scotland Neck, September 9, 1972 for the second time (previous interception, October 26, 1970). Flats from the 1972 interception have been burned. Reports from Florida warn that this pest is established and is a very serious structural pest. We have no evidence that the pest has become established in North Carolina. (Greene, N.C.D.A.).

BENEFICIAL INSECTS

ALLIGATORWEED FLEA BEETLE (Agasicles hygrophila) - NORTH CAROLINA -

This insect has apparently been successfully introduced into North Carolina. The first introduction was in the Lake Waccamaw, Columbus County area in 1967. Collections have been made in Columbus County and in Wilmington during 1972. (Sessions, N.C.D.A.).

dh/310



## SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.

During Week of Sept. 28-Oct. 4, 1972

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Southern Field Crops</u>				
Hertford ?	1	Peanut	Larva	European corn borer, <u>Ostrinia nubilalis</u>
Hertford	1	Peanut	Larvae	European corn borer, <u>Ostrinia nubilalis</u>
<u>Forestry, Ornamentals and Turf</u>				
Radkin	1	Sycamore	Larvae	Prob. False unicorn caterpillar, <u>Schizura</u> prob. <u>ipomeae</u>
McDowell	2	Azalea	Old injury	Azalea lace bug, <u>Stephanitis pyrioides</u> , and undet. whiteflies
Northampton	1	Holly	Adults	Wax scales, <u>Ceroplastes</u> sp.
McDowell	1	Silver maple	Oviparae morphs	Aphids, <u>Drepanaphis</u> sp.
Caldwell	1	Maple ?	Larva	Hag moth, <u>Phobetron pithecium</u>
Staughton or Caldwell	1	Black gum	Old injury	Tupelo leafminer, <u>Antispila nysaefoliella</u>
Martin	1	Azalea	Larvae	Azalea caterpillar, <u>Datana major</u>
Wilmington	1	Hibiscus	Adults	Corizid bugs, <u>Niesthrea louisianica</u>
Madison	2	White pine	Larvae & --	Redheaded pine sawfly, <u>Neodiprion lecontei</u> & aphids, Prob. <u>Cinara</u> sp.
Johnston	1	Loblolly pine	Larvae & pupae	Pine tip moth, <u>Rhyacionia</u> sp.
<u>Vegetables</u>				
Upham	1	Tomatoes	Larvae	Undet. Agromyzid leafminer flies
Sampson	1	Okra	Old injury	Undet. stink bugs
Orange	1	Okra	Old injury	Undet. Stink bugs
<u>Household and Industrial</u>				
Wake	1 I	In trailer	--	Smokybrown cockroach, <u>Periplaneta fuliginosa</u>
Wake	2	In sugar cane	All, & larvae	Red flour beetle, <u>Tribolium castaneum</u> ; & Dermestid beetle, <u>Trogoderma</u> prob. <u>sternale</u>
Wake	1	Flour, crackers, etc.	All	Merchant grain beetle, <u>Oryzaephilus mercator</u>
<u>Wildlife</u>				
Wright	1	Grape	Larvae	Grape berry moth, <u>Paralobesia viteana</u>
Wake	2	Pecan	Pupae, & larvae	Whitemarked tussock moth, <u>Hemerocampa leucostigma</u> ; & prob. walnut caterpillar, <u>Datana</u> prob. <u>integerrima</u>
<u>Miscellaneous</u>				
Winston	1	On lawn	Adult	Longhorned beetle, <u>Eburia</u> sp.
S. C.	1	Ceiling of carport	Adult	Orb weaver spider, prob. <u>Neoscona</u> sp.
Transylvania	1	In woods	Larva	Hag moth, <u>Phobetron pithecium</u>
Lee	1	On ground	Larva	Slug caterpillar, prob. <u>Sisyrosea</u> sp.
Washington	1	Light Trap	Adult	Undet. Geometrid moth
Wilmington	1	In woods	Adults	Arctiid moth, <u>Apantesis</u> sp.



# entomology

October 13, 1972

TO: County Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist J.N.H.

SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report compiled by: Thomas N. Hunt, Survey Entomologist

Raleigh, North Carolina

## PEANUTS

EUROPEAN CORN BORER (Ostrinia nubilalis) - NORTH CAROLINA - Larval damage reported in 2 Hertford County peanut fields. Larvae were found in 5 to 10% of the stems. Controls are generally not practical this late in season.

(Register, Ext.).

## POTATOES

PROB. SPRING ROSE BEETLE (Strigoderma arboricola) - NORTH CAROLINA - Approximately 50% of the sweet potatoes from a Wilson County field had white grub feeding damage. At least 2 Johnston County strawberry fields were also damaged by this pest. (Hunt, Ext.).

## MAN AND ANIMALS

AN ANT (Formica rufa integra) - NORTH CAROLINA - Reports received of ant mounds interfering with crop harvest and cultivation near Princeton, Johnston County. Collections of this species have also been made at Lake Wilson and Lucama, Wilson County, and Pikeville, Wayne Co. (McClenny, N.C.D.A.)



OCT 23 1972

ENTOMOLOGICAL

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October 20, 1972

TO: County Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *J. N. H.*  
 SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

TOBACCO

TOBACCO MOTH (Epehestia elutella) - NORTH CAROLINA - Reports and observations in Harnett, Wilson and Wayne Counties indicate larval population building up in some curing barns and pack houses. Accurate population estimates not available at this time. (Hunt, Ext.).

FOREST AND SHADE TREES

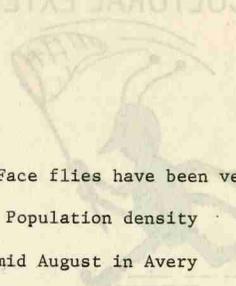
SOUTHERN PINE BEETLE (Dendroctonus frontalis) - NORTH CAROLINA - Initial aerial evaluation over the Tusquittee Ranger District (Cherokee and Clay Counties) revealed a rapidly expanding beetle population. A recent presuppression flight of the area revealed over 60 new spots. Marking of 3 of these spots for salvage resulted in 400 + trees, 2/3 of which were green. Other counties where beetle problems persist include Randolph, Surry, Davie, Davidson, and Stanly Counties. (State and Private Forestry, U.S. Forest Service, N. C. Forest Service).



MAN AND ANIMALS

FACE FLIES (Musca autumnalis) - NORTH CAROLINA - Face flies have been very annoying to cattle in scattered mountain communities. Population density reached peak (15 flies per head observed) in early to mid August in Avery County. Most observers attribute the high incidence of the pink eye disease of cattle to this insect. (Smith, ASCS).

dh/310



TOBACCO BEETLE (Psephenopsis alvialis) - NORTH CAROLINA - Reports and observations in Harrogate, Winton and Wayne Counties indicate larval population building up in some curing barns and pack houses. Accurate population estimates not available at this time. (Hunt, etc.).

SOUTHERN PINE BEETLE (Pemphigus fontinalis) - NORTH CAROLINA - Larval aerial evaluation over the Tuscarora Range District (Graham and Clay Counties) revealed rapidly expanding beetle population. A recent pre-epidemic flight of the tree revealed over 80 new spots. Nesting of 3 of these spots for calyx resulted in 400 + trees, 1/3 of which were green. Other counties where beetle problems persist include Randolph, Swain, Davidson, and Sevier.



## SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.

During week of Oct. 5-11, 1972

County	# of collected	Specimens	Host(s)	Stage(s)	Determination
<u>Forestry, Ornamentals and Turf</u>					
Cates	1		Walnut	Larva	Hickory horned devil, <u>Citheronia regalis</u>
Wayne	1		Euonymus	Nymphs	Coreid bugs, prob. <u>Anasa</u> or <u>Leptoglossus</u> sp.
Buncombe	1		Boxelder	Nymphs & adults	Boxelder bug, <u>Leptocoris trivittatus</u>
Wenham	1		Chinese chestnut	Larvae	Yellownecked baterypillar, <u>Datana ministra</u>
Robeson	1		Pine	Adults	Pinhole borers, <u>Platypus flavicornis</u>
Wake	2		Birch	Larvae	Yellownecked caterpillar, <u>Datana ministra</u> ; and prob. Dusky birch sawfly, prob. <u>Croesus latitarsus</u>
Wayne	1		Lawn	Larvae	Black cutworm, <u>Agrotis ipsilon</u>
Worsyth	1		White oak	Nymphs	Undet. Diaspidid scales
<u>Household and Industrial</u>					
Moore	1		Entering home	Adults	Lesser mealworm, <u>Alphitobius diaperinus</u>
Lincoln	1		Entering home	Larvae	Soldier beetles, <u>Chauliognathus</u> sp.
Warrington	1		Kitchen sink	Adults	Cigarette beetles, <u>Lasioderma serricorne</u>
Burke	1		In home	Larva	Soldier beetle, <u>Chauliognathus</u> sp.
Wenham	1		In home	Larva	Soldier beetle, <u>Chauliognathus</u> sp.
<u>Miscellaneous and Accidental Household</u>					
Wenham	1		In office	Adult	Undet. Ensign wasp
<u>Miscellaneous</u>					
Wenham	1		On ground	Pupa	Imperial moth, <u>Eacles imperialis</u>
McDowell	1		On porch post	Larval skin from cocoon	Lasiocampid moth, <u>Tolyte</u> sp.
Johnston	1		In carport	Larva	Azalea caterpillar, <u>Datana major</u>
Washburn	1		--	Adult	Saltmarsh caterpillar, <u>Estigmene acrea</u>
Edgecombe	1		On ground	Larva	Hickory horned devil, <u>Citheronia regalis</u>

## SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.

During week of Oct. 12-18, 1972

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Man and Animals</u>				
Hamden	1	Farrowing house	Larvae	Soldier flies, <u>Hermetia illucens</u>
<u>Rain, Soybeans and Forages</u>				
Lyde	1	Corn	Larvae	Southern cornstalk borer, <u>Diatraea crambidoides</u>
<u>Grocery, Ornamentals and Turf</u>				
Washington	1	Cedar	Larvae	Fall webworm, <u>Hyphantria cunea</u>
Union	1	Juniper	Pupae	Bagworms, <u>Thyridopteryx ephemeraeformis</u>
Orange	1	Juniper	Old injury	Undet. spider mites
Lake	1	Impatiens	Adults	Mottled tortoise beetle, <u>Deloyala guttata</u>
Sampson	1	Wax myrtle	Larvae	Azalea caterpillar, <u>Datana major</u>
Nowan	1	Loblolly pine	Pupa	Pine tip moth, <u>Rhyacionia</u> sp.
Cumberland	1	Hickory	Adults	Pigeon tremex, <u>Tremex columba</u>
Surke	1	Oak	Larva	Hag moth, <u>Phobetron pithecium</u>
Wake	1	Loblolly pine	Larva	Imperial moth, <u>Eacles imperalis</u>
<u>Vegetables</u>				
Moore	1	Snap beans	Larvae	Lesser cornstalk borer, <u>Elasmopalpus lignosellus</u>
Sampson	1	Squash	Larvae	Granulate cutworm, <u>Feltia subterranea</u>
<u>Wood Destroying</u>				
Rocklenburg	1	Mobile home	Alate	Termite, <u>Incisitermes snyderi</u>
Witt	1	Imported broom handles	Adults	Powderpost beetle, <u>Lyctus</u> sp.
Lake	1	Walnut bed	Adults	Southern lyctus beetle, <u>Lyctus planicollis</u>
<u>Household and Industrial</u>				
Nowan	1	Throughout home	Adults	Cigarette beetle, <u>Lasioderma serricorne</u>
Columbus (?)	1	In carpet	Puparia	Flesh flies, <u>Sarcophaga</u> sp.
Lake	2	Throughout home	Adults	Cigarette beetles, <u>Lasioderma serricorne</u> ; and Indian meal moth, <u>Plodia interpunctella</u>
<u>Miscellaneous and Accidental Household</u>				
Surder	1	In & near residence	Adults	Earwigs, <u>Labidura riparia</u>
Columbus	1	Windows in office	Adults	Sap beetles, <u>Conotelus stenoides</u>





# entomology

October 27, 1972

TO: County Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*

SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist

Raleigh, North Carolina

OCT 30 1972  
ENTOMOLOGY DEPT.

SOYBEANS

A CERAMBYCIDAE (Dectes texanus) - NORTH CAROLINA - Larvae have begun girdling stems of York soybeans in southern Washington County. Girdling of later planted and maturing soybeans (Davis, Dare, Pickett, Lee, Ransom and Bragg) should become noticeable in next 2 weeks. Last season only certain areas of Beaufort, Washington and Hyde Counties had infestations exceeding 20% of the plants. However, infestations in soybeans occurred in scattered fields as far south as Duplin and Bladen Counties. (Van Duyn, Ext., Hunt, Ext.).

FOREST AND SHADE TREES

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - NORTH CAROLINA - As indicated in last weeks report, the southern pine beetle outbreak is continuing at a high level on the Tusquittee District, Nantahala National Forest (Cherokee and Clay Counties). An estimated 116 infested trees occurred per



1000 acres of host type. Approximately 1.1 million board feet of timber was actively infested within the protection boundary at the time of the ground survey. (State and Private Forestry, Division of Forest Pest Management, U. S. Forest Service.).

Table 1. Summary of survey data, Tusquitee District, Nantahala National Forest, July 1972 (90 percent confidence limits).

Total Acres Surveyed	Spots Per M Acres of Host Type	Reds and faders Per M Acres Host Type	Estimated Infested Trees Per M Acres Host Type	Average Brood Density Per Square Foot of Bark Surface
406,520	18.9 ± 3.0	77.4 ± 22.0	116	465

dh/310



SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.  
During week of Oct. 19-25, 1972

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Southern Field Crops</u>				
Harnett	1	Stored tobacco	Larvae	Tobacco moth, <u>Ephestia elutella</u>
<u>Forestry, Ornamentals and Turf</u>				
Moore	1	Holly	Shed skin	Undet. leafhopper
Montgomery	1	Willow	All	Undet. aphids
Feson	1	Loblolly pine	Larvae	Pine tip moth, <u>Rhyacionia</u> sp.
Buncombe	1	Bentgrass	Nymphs	Chinch bugs, <u>Blissus</u> sp.
Faden	1	Japanese holly	All	Undet. mealybugs
Bladen	1	China-berry	Adults	Undet. Diaspidid scales
Wilson	1	White pine	All	Prob. pine bark aphid, prob. <u>Pineus strobi</u>
Eaufort	1	Japanese holly	All	Undet. mealybugs
<u>Household and Industrial</u>				
Mecklenburg ?	1	-	Cases	Prob. casemaking clothes moth, prob. <u>Tinea pellionella</u>
<u>Miscellaneous and Accidental Household</u>				
Ashe	1	Storing poke-weed seeds in summer cabin	Adults	Whitefooted or deer mice, <u>Peromyscus</u> sp.
Davidson	1	In basement	All	Undet. Podurid springtails
Draham	1	In basement	Workers & alates	Ants, <u>Neivamyrmex opacithorax</u>
<u>Fruit</u>				
Martin	1	Peach	All	Undet. Diaspidid scales
Folk	1	Pecan	Adults	False powderpost beetles, <u>Xylobiops basilaris</u>
Bladen	1	Peach	Adults	Undet. Diaspidid scales
<u>Miscellaneous</u>				
Ashe	1	Bark of dying white pine	Larvae	Undet. fungus gnats
Guilford	1	In garage	Adult	Greenhouse stone bricket, <u>Tachycines asynamorus</u>
Draham	1	On tree trunk	Egg cocoon	Undet. spider
Alamance	1	In soil	Pupa	Undet. Noctuid moth
Alamance	1	On shrub	Adult	Lasiocampid moth, <u>Tolyte</u> sp.



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ENTOMOLOGY DEPT.

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November 3, 1972

TO: County Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *TNH*  
 SUBJECT: Insect Survey Report

## NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

## FOREST AND SHADE TREES

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - NORTH CAROLINA - An evaluation of the southern pine beetle outbreak was conducted on the Uwharrie National Forest (Randolph, Montgomery, and Davidson Counties) during August and September, 1972. The results indicate a southward spread from the northern most section of the Forest. There are an estimated 3,026 attacked trees (primarily shortleaf pine) in 74 spots within the 220,000 acre forest. Thirty-seven % of these trees are actively infested. (State and Private Forestry, Division of Forest Pest Management, U. S. Forest Service).



Table 1. Aerial and Ground Check Data Summary, Uwharrie National Forest, N. C.

No. trees per spot	Aerial Data <sup>1/</sup>		Ground Check Data			
	No. spots	No. red and fading trees	No. spots checked	No. trees checked	No. green infested	No. infested total
Singles	12	12	1	1	0	0
2-5	16	46	2	5	0	0
6-20	24	270	3	33	4	19
21-50	10	350	1	50	10	35
51-100	3	250	1	75	30	60
100+	10	1720	4	600	50	170
Total	74	2648	12	764	94	284

<sup>1/</sup>Expanded to a 100 percent survey area coverage.

dh/310

NOV 13 1972

ENTOMOLOGY DEPT.

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November 10, 1972

TO: County Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist T.N.H.  
 SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

PEANUTS

APHIDS (Prociphilus erigeronensis) - NORTH CAROLINA - The roots of peanut plants heavily infested in scattered spots over Northampton and Halifax Counties. Past observations indicate that infestations occur during September and October. Collections have been made from butter beans and horseweed, Erigeron canadensis, in North Carolina and the insect is more likely to become established in sandy soils. Distribution depends largely on ants. (Campbell, Dept. of Ent., N.C.S.U.; Harrell, Ext.).

HOUSEHOLD AND STRUCTURES

A DERMESTID BEETLE (Anthrenus coloratus) - NORTH CAROLINA - Adults of this insect were collected in a Raleigh apartment for a state record March 23, 1971 by D. L. Stephan. Collections have subsequently been made in Wake County



on the N.C.S.U. campus by H. E. Scott and D. L. Stephan during spring and summer of 1972. No damage was noticed in any case. (Hunt, Ext.).

CORRECTION:

Report concerning the state record Anthrenus coloratus in Vol. 22, No. 44, November 3, 1972 of the CEIR gave credit for collection to O. L. Stephan.

This should be corrected to read D. L. Stephan.



# entomology

November 17, 1972

TO: County Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

## NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

### SOYBEAN

A CERAMBYCID (Dectes texanus) - NORTH CAROLINA - Reports of larval girdling soybeans in Anson and Cumberland Counties. This insect has been collected from weeds (cocklebur and ragweeds) over the Piedmont. However, this is first report of damage to soybeans outside the Coastal Plain. An appraisal of the situation is scheduled in late November. (Potter, Ext., Jernigan, Ext.).

### POTATOES

FRUIT FLY (Drosophila sp.) - NORTH CAROLINA - Reports of damage received from Johnston County area concerning larvae in commercially stored sweet potatoes. Once established in cull piles, flies quickly spread throughout storagehouse. Conditions which favor buildup are high temperature (75°-85°F.) coupled with sour, diseased and bruised potatoes. (Sorensen, Ext.).

dh





# entomology

November 22, 1972

TO: County Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *TNH*  
 SUBJECT: Insect Survey Report

## NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist

Raleigh, North Carolina

### SOYBEANS

A CERAMBYCID (*Dectes texanus*) - NORTH CAROLINA - Economic larval damage for first time in Piedmont (Anson and Cumberland Counties). Checks in southern Anson County revealed a general larval infestation in weeds (cocklebur and rag) and soybeans. About 20 fields (5 to 20 acres in size) have been observed, and the number of infested soybean plants ranged from less than 1% to about 40%. One combined field was estimated to have 25% lodging.

Enclosed are 2 years of tests conducted by Dr. John Van Duyn in the Plymouth area (Washington County) which indicate deep plowing will reduce overwintering population. Adults emerge after spring planting; therefore the stems must be buried below depth which will be disturbed in the spring. (Hunt, Ext., Potter, Ext., Jernigan, Ext.).



Table A. Percent Dectes Surviving in Soybean Stems When in Normal Position or Buried 2, 4, 6 inches. (December 1971)

Treatment	<u>Percent Surviving In</u>				
	Rep. I	Rep. II	Rep. III	Rep. IV.	Average (%)
Surface	88	76	96	84	86
2 inches	64	60	48	40	53
4 inches	24	64	72	44	51
6 inches	52	52	28	28	40

Table B. Percent Dectes Surviving in Soybean Stems When in Normal Position or Buried 2, 4, 6 inches (March 1972)

Treatment	<u>Percent Surviving In</u>				
	Rep. I	Rep. II	Rep. III	Rep. IV	Average (%)
Surface	96	88	88	84	89
2 inches	40	40	44	8	33
4 inches	16	20	36	12	21
6 inches	16	28	32	28	28



## SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.

During week of Oct. 26-Nov. 1, 1972

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Southern Field Crops</u>				
Northampton	1	Peanuts	All	Undet. aphids
<u>Man and Animals</u>				
Wake	1	Dogs, around home	Adults	Brown dog tick, <u>Rhipicephalus sanguineus</u>
Lincoln	1	In dog lot	Adults	Dung beetles, <u>Geotrupes blackburnii</u>
<u>Grain, Soybeans and Forages</u>				
Wake	1	Soybeans	Adults	Fuller rose beetle, <u>Pantomorus cervinus</u>
<u>Forestry, Ornamentals and Turf</u>				
Richmond	1	Lawn	Larvae	Green June beetle, <u>Cotinix nitida</u>
Greene	1	Boxwood	Old injury	Undet. spider mites
Wake	1	Willow	Nymphs and alates	Prob. Giant bark aphid, prob. <u>Longistigma caryae</u>
<u>Vegetables</u>				
Walden	1	Collards (as large, now on side of porch)	Chrysalides	Imported cabbageworm, <u>Pieris rapae</u>
<u>Household and Industrial</u>				
Wake	1	Entering home	Adult	Boxelder bug, <u>Leptocoris trivittatus</u>
Wake	1	In kitchen	Nymphs	German cockroach, <u>Blattella germanica</u>
Perquimans	1	In home	Larvae	Soldier beetles, <u>Chauliognathus</u> sp.
Forsyth	1	Around kitchen sink	Adults	Cigarette beetles, <u>Lasioderma serricorne</u>
Lenoir	1	Cricket feed	Larvae	Lesser mealworm, <u>Alphitobius diaperinus</u>
<u>Miscellaneous and Accidental Household</u>				
Wake	1	In building	Adult	Crab spider, prob. <u>Xysticus</u> sp.
<u>Miscellaneous</u>				
Wilson	1	-	Adult	Undet. Noctuid moth

SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.  
During week of November 2-8, 1972

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Grain, Soybeans and Forages</u>				
Cumberland	1	Soybeans	Larvae	European corn borer, <u>Ostrinia nubilalis</u>
<u>Forestry, Ornamentals and Turf</u>				
Sampson	1	Centipede grass	Larvae	Green June beetle, <u>Cotinis nitida</u>
<u>Vegetables</u>				
Person	1	Crucifers	All	Undet. aphids
<u>Wood Destroying</u>				
Cleveland	1	Bamboo from Jamaica	Adults	Bamboo powderpost beetles, <u>Dinoderus</u> sp.
Wake	1	Attic timbers	Workers and alates	Carpenter ants, <u>Camponotus nearcticus</u>
Wake	1	In house	Alates	Drywood termites, <u>Incisitermes syderi</u>
<u>Household and Industrial</u>				
Camden	1	In kitchen	Larvae	Indian meal moth, <u>Plodia interpunctella</u>
Johnston	2	In sweet potato storage house	Larvae	Soldier Flies, <u>Hermetia illucens</u> ; and sap beetles, prob. <u>Carpophilus</u> sp.
Gaston	1	Pantry foods	All ?	Booklice, <u>Liposcelis</u> sp.
McDowell	1	In home	Alate males	Ants, <u>Neivamyrmex opacithorax</u>
Wake	1	Entering home	Larvae	Soldier beetles, <u>Chauliognathus</u> sp.
Wake	1	Stored potatoes	All ?	Potato tuberworm, <u>Phthorimaea operculella</u>
<u>Miscellaneous and Accidental Household</u>				
Durham	1	In home	Larvae	Arctiid moth, <u>Epantheria scribonia</u>
<u>Miscellaneous</u>				
Avery	1	On yard plants	Adults	Oil beetles, <u>Meloe</u> sp.
Wayne	1	On garage	Adults	Boxelder bugs, <u>Leptocoris trivittatus</u>
Scotland	1	Crossing farm road	Larva	Beet armyworm, <u>Spodoptera exigua</u>

SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.  
During week of Nov. 9-15, 1972

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Grain, Soybeans, and Forages</u>				
Jamberland	1	Soybean	Larvae	Longhorned beetle, <u>Dectes texanus</u>
<u>Forestry, Ornamentals and Turf</u>				
Blamance	1	Magnolia	Dead adults	Coccid scales, prob. <u>Toumyella</u> sp.
Bladen	1	Golf course	Larvae	Green June beetle, <u>Cotinix nitida</u>
Swain	1	Yellow poplar	Dead adults and crawlers	Coccid scales, prob. <u>Toumyella</u> sp.
Wayne	1	Juniper	Dead cocoon	Bagworm, <u>Thyridopteryx ephemeraeformis</u>
<u>Vegetables</u>				
Robeson	1	Collards	Larvae	Granulate cutworm, <u>Feltia subterranea</u>
<u>Wood Destroying</u>				
Granville	1	Floor joists of house	Dead larva	Oldhouse borer, <u>Hylotrupes bajulus</u>
Waldwell	1	In pine lumber	Larvae	Pine sawyers, <u>Monochamus</u> sp.
Burke	1	Sub-flooring & floor joists	Larvae	Oldhouse borer, <u>Hylotrupes bajulus</u>
<u>Household and Industrial</u>				
Mecklenburg	1	In home	Larvae	Soldier beetles, <u>Chauliognathus</u> sp.
Wayne	1	In Grain bin	Larvae	Indian meal moth, <u>Plodia interpunctella</u>
Guilford	1	In closet	Larvae	Undet. blowflies
Wake	1	In home, closets	Larva	Varied carpet beetle, <u>Anthrenus verbasci</u>
Burke	1	--	Larvae	Varied carpet beetle, <u>Anthrenus verbasci</u>
Northampton	1	In basement	Adults	Flour beetles, <u>Gnathocerus</u> sp.
Wake	1	Wool carpet	Larvae	Casemaking clothes moth, <u>Tinea pellionella</u>
<u>Miscellaneous and Accidental Household</u>				
Greene	1	Entering home	Adults	Undet. pseudocaeciliid barklice
<u>Fruit</u>				
Currituck	1	Apple	wingless	Woolly apple aphid, <u>Eriosoma lanigerum</u>
<u>Miscellaneous</u>				
Blamance	1	Swarming around service station	Adults	Undet. scatopsid flies
Orange	1	On sugar maple	Larvae	Pine sawyers, <u>Monochamus</u> sp.
Aswell	1	On black gum tree	Egg masses	Chinese mantid, <u>Tenodera aridifolia sinensis</u>



# entomology

December 1, 1972

TO: County Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

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 DEC 1 1972  
 ENTOMOLOGY DEPT.

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist

Raleigh, North Carolina

PEANUTS

SOUTHERN CORN ROOTWORM (Diabrotica undecimpunctata howardi) -  
 NORTH CAROLINA - Larval damage to peanuts centered in Northampton,  
 Halifax, Edgecombe, Martin, Bertie and Hertford Counties. Losses were  
 3-5 times more severe than in 1971. Roughly, 50,000 acres in these  
 counties received economic losses. Approximately 25,000 acres were  
 treated for rootworm in Edgecombe, Northampton, Martin and Hertford  
 counties. (County Extension Staff).

DUE TO REDUCED INSECT ACTIVITY, THE WEEKLY INSECT SURVEY NOTES WILL BE  
 DISCONTINUED UNTIL THE SPRING OF 1973. IF CIRCUMSTANCES WARRANT, I WILL  
 KEEP YOU INFORMED.

S E A S O N S G R E E T I N G S !!!



DEC 8 1972

DEC 8 1972

ENTOMOLOGY DEPT.

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December 8, 1972

TO: County Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
 SUBJECT: Insect Survey Report

NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This reported is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

SOYBEANS

A CERAMBYCID (Dectes texanus) - NORTH CAROLINA - Observations in Cumberland County indicate infestations in soybeans restricted to 1 small section. About 500 acres of soybeans were known to have a 5% or less infestation in 1972. One farmer in area is sure he has seen similar damage for 4 or more years. (Jernigan, Ext., Hunt, Ext.).

PEANUTS

TWOSPOTTED SPIDER MITE (Tetranychus urticae) - NORTH CAROLINA - Spider mites were the number 1 problem of many Halifax-Northampton County area peanut farmers. Approximately 50% of the peanut fields in Northampton and Halifax Counties had damaging mite infestations. There is no chemical with a label clearance that is economic to use for control of these mites on peanuts at the present time. (Peedin, Ext., Hunt, Ext.).





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December 15, 1972

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 Raleigh, North Carolina

TURF

GREEN JUNE BEETLE (Cotinis nitida) - NORTH CAROLINA - Damage occurring to a 2 acre fescue lawn near Falcon, Cumberland County as a result of green June beetle larval activity. Twenty % of the lawn had roughly 15 grubs per sq. yd. (Brock, APHIS).

DECIDUOUS FRUITS AND NUTS

REDBANDED LEAFROLLER (Argyrotaenia velutinana) - NORTH CAROLINA - Moth catches for 1971 and 1972 (sex lure traps) indicate 3 distinct population peaks in mountains. Four acres of a 100 acre Wilkes County orchard was trapped both years. The overwintering generation emerged in early April. The F<sub>1</sub> generation peaked in late June and the F<sub>2</sub> generation peaked in early September. A total of 1,582 males were trapped in 1971 and 590 in 1972. (Rock, Ent. Dept., N.C.S.U.).





# entomology

December 22, 1972

TO: County Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *J. N. H.*  
 SUBJECT: Insect Survey Report

## NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT

This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

### FOREST AND SHADE TREES

NANTUCKET PINE TIP MOTH (Rhyacionia frustrana) - NORTH CAROLINA - Despite control efforts, a late season upsurge in the tip moth population was observed on the Beech Creek Seed Orchard (Cherokee Co.). Infestation levels reached 88% on one portion of a shortleaf geographic source which was not sprayed. The % infestation reached only 40% on the treated portion. (Forest Pest Management, State and Private Forestry, U. S. Forest Service).

### FEDERAL AND STATE PROTECTION PROGRAMS

IMPORTED FIRE ANT (Solenopsis saevissima richteri) - NORTH CAROLINA - Recent surveys in the infested counties revealed additional mounds in Robeson, Pamlico and Columbus Counties. Heaviest buildup is in portions of Columbus County. Residents continue to ask government assistance in controlling the pest on their properties. (APHIS).



COOPERATIVE AGREEMENT  
Weekly Report\*

State North Carolina

Date December 29, 1972

Survey and Detection Operations  
Plant Pest Control Division  
Agricultural Research Service  
United States Department of Agriculture  
Federal Center Building  
Hyattsville, Maryland 20781

Our regular weekly insect report for the period December 23-29, 1972  
was not submitted because of annual leave

Thomas E. Hunt

J. N. H.

Survey Entomologist

Distribution:

- Copy - State Supervisor, PPC Div.
- Copy - Survey Entomologist

\* To be used for reporting activities for any weekly period for which insect reports have not been submitted, i.e., surveys, vacation periods, summary preparation, extreme weather conditions, illness, etc.