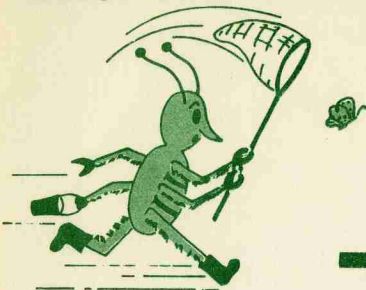


*D. Knight*

*entomology*



January 4, 1974

RECEIVED

TO: County Extension Agents and Other Interested Persons

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

JAN 7 1974

SUBJECT: Insect Survey Report

ENTOMOLOGY DEPT.

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

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - Salvage of beetle-killed timber on state and Federal lands in North Carolina, July through December, 1972 was 4.4 million bd. ft. less than July through October, 1973. Totals for the periods equal: 7.2 million bd. ft., 1972; 11.6 million bd. ft., 1973. The 1972 total is slightly low due to incomplete reporting during early summer. (U.S. Forest Service).



JAN 14 1974

ENTOMOLOGY DEPT.

De Knight

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January 11, 1974

TO: County Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist

T. N. Hunt

SUBJECT: Insect Survey Report

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

## STORED GRAIN

RED FLOUR BEETLE (Tribolium castaneum) - North Carolina - A strain of red flour beetle from Clinton, Sampson County, and another from Wallace, Duplin County, were tested for resistance to malathion, lindane, methyl bromide and phosphine by an FAO team. The insects were susceptible to all chemicals except lindane. Fourteen percent of the Clinton strain and 39% of the Wallace strain were not killed by lindane. Of the chemicals listed, malathion is the only one recommended for use on stored grain in North Carolina. (Champ, Pest Infestation Lab., Slough, England.)





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January 18, 1974

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

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

STORED GRAIN

LESSER GRAIN BORER (Rhyzopertha dominica) - North Carolina -  
 Lesser grain borers collected from Clinton, Sampson County, and  
 Farmville, Pitt County, were tested for resistance to malathion and  
 lindane by an FAO team. The borers were 100% susceptible to  
 malathion. Two % of the Farmville collection and 3% of the Clinton  
 collection survived the lindane treatment, indicating that resistance  
 is present. (Champ, Pest Infestation Lab., Slough, England.)



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JAN 25 1974

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January 25, 1974



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

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

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - NORTH CAROLINA - Salvage of outbreak related timber in November was 3.6 million bd. ft. of sawtimber and 5,350 cds. of pulpwood. This is roughly 3 times the volume of sawtimber salvaged during December 1972 and about 1,000 cds. less than that salvaged December 1972. (USFS, Atlanta, Ga.)

FEDERAL AND STATE PLANT PROTECTION PROGRAMS

RED IMPORTED FIRE ANT (Solenopsis invicta) - NORTH CAROLINA - Survey of the area surrounding a newly found Duplin County infestation south of Pink Hill revealed a mound on US Highway 258 in Lenoir County near Jones County line. This is the first ant mound reported from Lenoir County. (Cox, APHIS).

CORRECTION FOR CEIR: The map of male gypsy moth sex lure catches for N. C., page 27 in the Annual Insect Survey and Detection Report, did not include 15 1973 collections in Dare Co. Please add 15 collections to the outer bank area of Dare Co. to correct your map.





*Knights*



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February 1, 1974

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TO: County Extension Agents and Other Interested Persons

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

FEB 4 1974

SUBJECT: Insect Survey Report

ENTOMOLOGY DEPT.

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

FOREST AND SHADE TREES

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - NORTH CAROLINA -

Currently 60 counties containing approximately 7.8 million ac. of pine lands are affected by the beetle epidemic in North Carolina. Infestations are most severe in the Piedmont and mountains.<sup>1</sup> Considerable losses are also occurring in many urban areas. As of December 14, 1973, 18.9 million board feet of infested sawtimber and 2.6 million cubic feet of infested pulpwood have been salvaged from state, private, and federal lands in North Carolina. (Forest Farmer, November and December, 1973).

<sup>1</sup>See North Carolina Cooperative Economic Insect Survey and Detection Annual Report, January 15, 1974 for further details.



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FEB 8 1974

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February 8, 1974

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

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

FOREST AND SHADE TREES

A CHALCID (Megastigmus atedius) - NORTH CAROLINA - Larvae of this tiny wasp were found infesting eastern white pine, Pinus strobus L. during fall of 1972 in Transylvania County. This is the first record of a chalcid attacking pine seed in Eastern North America and a state record according to records at NCSU. Thirty-five larvae were collected from 600 seeds. Five reared adults were submitted to the U. S. National Museum and were identified by B. D. Burks, Syst. Entomol. Lab., USDA, ARS, Washington, D. C. (Speers, U. S. F. S., Asheville, N. C.)



*Dr. Knight*  
FEB 15 1974

ENTOMOLOGY DEPT.

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February 15, 1974

TO: County Extension Agents and Other Interested Persons

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

SUBJECT: Insect Survey 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 -

Pulpwood salvage efforts on state and federal lands increased from 595 cords, November, 1973 to 800 cords, December, 1973. Timber salvage for December, 1973 decreased roughly 500 bd. ft. from November, 1973 (3,721, November, 1973 - 3,217, December, 1973). (U.S. Forest Service, Atlanta).



*Dr. Knight*

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February 22, 1974

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

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FEB 22 1974

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

ENTOMOLOGY DEPT.

FORAGE LEGUMES

ALFALFA WEEVIL (Hypera postica) - NORTH CAROLINA - Spot checks in 1 Wake County alfalfa field indicate active larvae on 50% of the 100 tips examined. Most larvae in 1st or 2nd instar. (Hunt, Ext.)

CORRECTIONS FOR VOL. 24, FEBRUARY 15, 1974

CEIR

UNDER HIGHLIGHTS

Change: Armyworm larvae in North Carolina

To: Armyworm larvae in South Carolina

UNDER DETECTION, NEW COUNTY RECORDS, page 60

Change both references from North Carolina to South Carolina.

It is correct in notes, page 57 and page 60.





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MAR 1 1974

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March 1, 1974

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

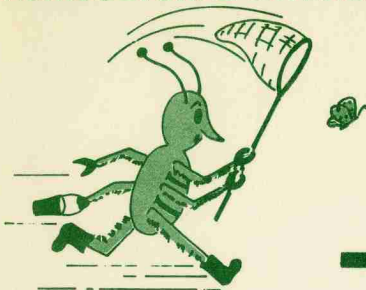
This report is compiled by: Thomas N. Hunt, Survey Entomologist  
 Raleigh, North Carolina

ORNAMENTALS

SPRUCE APHID (Elatobium abietinum) - NORTH CAROLINA - Damage from this aphid observed by H. E. McCall, Ext., NCSU., February 18, 1974 in Waynesville, Haywood County, N. C. on a yard planted spruce. This is the second report of this species occurring in eastern U.S. The first observation of damage occurred in Buncombe County, N. C. on ornamental white spruce (Picea glauca) and was collected by G. F. Fedde, U.S.F.S., Dec. 1967.<sup>1</sup> Determination of the 1974 collection was made by C. F. Smith, NCSU. (Hunt, Ext.)

<sup>1</sup> Fedde, Gerhard F., 1972. An Anomalous Occurrence of the Spruce Aphid Elatobium abietinum (Walker) in Western North Carolina. Proc. Ent. Soc. Wash., Vol. 74(4): 379-381.





Di. Knight  
MAR 8 1974

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March 8, 1974

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

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

FORAGE

ALFALFA WEEVIL (Hypera postica) - NORTH CAROLINA - Larval damage occurring in fields observed in Randolph, Chatham and Wake counties. Fifty % of the 150 tips examined in detail harbored 1 to 3 larvae. If warm temperatures persist economic damage will occur in most Piedmont alfalfa fields prior to generally accepted treatment date of 1 April. (Hunt, Ext.)

EASTERN TENT CATERPILLAR - (Malacosoma americanum) - First observation of larvae and webbing (roughly 2 in. sq.) observed in wild cherry trees near Asheboro, Randolph Co., Pittsboro, Chatham Co. and Benson, Johnston Co. March 6 and 7. This is 1 week earlier than first 1973 report from this area. Hatching dates of this insect are indicators of gypsy moth hatching dates. (Hunt, Ext.)



MAR 15 1974 Dr. Knight



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March 14, 1974

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

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

VEGETABLES

GRANULATE CUTWORM (Feltia subterranea) - NORTH CAROLINA - Larval damage occurring in pepper plant beds in Sampson County. Roughly 6,000 sq. yd. were infested. We have also received reports of severe damage to tobacco plant beds. It is advisable to periodically check plant beds, in view of the extremely mild winter. (Westerbeek, Ext., Sampson County)

FOREST AND SHADE

EASTERN TENT CATERPILLAR (Malacosoma americanum) - NORTH CAROLINA - Hatching larvae (1/4 inch long) observed along I-40 in Burke County March 11 in wild cherry. This report and previous collections in Piedmont indicate that hatching is occurring over entire Piedmont and Coastal Plain. Hatching in mountains usually lags behind Piedmont about 1 1/2 weeks. (Lott, APHS; Hunt, Ext.)



PITCH MASS BORER (Vespamima pini) - NORTH CAROLINA - Larval collections were made March 9, 1974 from Virginia pine, Pinus virginiana in Haywood County. Previous collections have been from white pine, Pinus strobus, and spruce sp., Picea.<sup>1</sup> Determination was by D. L. Stephan, NCSU. This is the first collection of this genus in North Carolina according to records at NCSU, (Conrad)

<sup>1</sup> Mackay, Margret Rae, 1968. The North American Aegeriidae (Lepidoptera): A Revision Based on Late-Instar Larvae. Memoirs of the Entomological Soc. of Canada No. 58.

bp/330





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March 22, 1974

MAR 25 1974

ENTOMOLOGY DEPT.

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

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

CORN

RICE WEEVIL (Sitophilus oryzae) - NORTH CAROLINA - Adults very active on outside (around drying fans) of commercial storage bins in Johnston, Wilson and Harnett Counties during week ending March 15. All of the 15 bins visited which contained corn were infested. The grass and area around 8 of these bins was teeming with the weevils. There was very little evidence of control measures. (Hunt, Ext.)

TOBACCO

GRANULATE CUTWORM (Feltia subterranea) - NORTH CAROLINA - Larval damage reports continued this week from throughout the Coastal Plain. Estimates to 1,000 yds. of tobacco plant bed lost were received from Robeson County. Observations in Wayne County revealed several beds infested. Larvae



are from 1 - 2 inches long, mottled gray, and populations of 1 per sq. ft. can heavily damage a plant bed in 1 night. Close observations of all plant beds is warranted as this species actively feeds on many plant species during warm conditions throughout the entire year. Note control recommendations in the enclosed sheet. (Robertson, Ext. Ent.; Hayes, APHIS; Heath, Westerbeek, Ext., Sampson County)

## VEGETABLES

ASPARAGUS APHID (Brachycolus asparagi) - NORTH CAROLINA - Nymphs found on 25 percent of asparagus plants in residential planting at Middleburg, Vance County, October 22, 1973, by J. W. Gentry. No alates found. Typical rosetting of host caused by this species observed. Determined by L. M. Russell. This is a new State record. (Gentry)

bp/330



*Kniest*

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March 29, 1974

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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MAR 29 1974

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

ENTOMOLOGY DEPT.

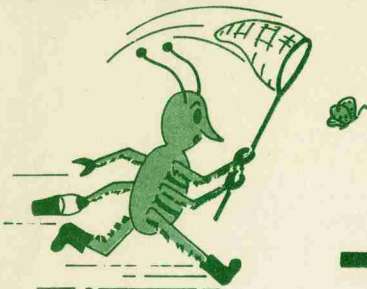
FORAGES

ALFALFA WEEVIL (Hypera postica) - NORTH CAROLINA - Cooler temperatures March 18 - 27 reduced weevil larval activity, thus decreasing the need for pre April 1 controls. (Hunt, Ext.)

SMALL FRUITS

BLUEBERRY BUD MITE (Acalitus vacalitus) - NORTH CAROLINA - Bud damage appearing in Pender Co. In a pesticide screening test, 55% of the terminal buds in the check were infested. This is a 4% increase from March 1973. (Weaver, Dept. of Ent.)





*Dr. Knight*

*entomology*

April 5, 1974

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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 APR 8 1974  
 ENTOMOLOGY DEPT.

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

SMALL GRAIN

APHID (Aphidae) - NORTH CAROLINA - Approximately 150 small grain fields were observed in Nash, Wilson, Johnston, Granville, Person, Durham and Orange counties. Aphid counts were low and no fields were observed with a damaging population.

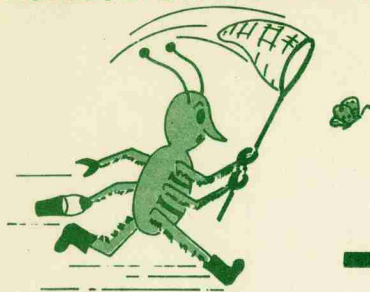
FOREST AND SHADE

EASTERN TENT CATERPILLAR (Malacosoma americanum) - NORTH CAROLINA - Observations in Harnett, Sampson, Johnson, Wilson, Wake, Nash and Franklin counties revealed very heavy webbing in this area. Webs were observed in 70% of the wild cherry trees (10+ ft tall) with up to 15 webs per tree observed. Infested trees in the area would average 4 webs per tree 15+ ft tall. Numerous webs were also observed in flowering crabapples, peaches, etc. in yards throughout the area. Observations during same week in Person, Durham, Orange, Granville and Alamance counties revealed that 30% of the wild cherry trees observed were infested, with an average of 2 webs per tree 15+ ft.





*file*



# entomology

April 12, 1974

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

The volumes of salvaged timber due to southern pine beetle attack increased more than 100% from 1973 to 1974 in North Carolina. Total timber salvage June 30, 1973 - June 31, 1974 equaled 20.5 million bd. ft. For the same period 1 year earlier, June 30, 1972 - January 31, 1973, total timber salvage equaled 9.2 million bd. ft. In addition, 46,500 cords of pulpwood was salvaged during the period June 30, 1973 - January 31, 1974 as compared to 9,944 cords 1 year earlier.

(U. S. Forest Service, Forest Pest Mgt., Atlanta.)



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RECEIVED *Dr. Knight*

APR 22 1974

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April 19, 1974

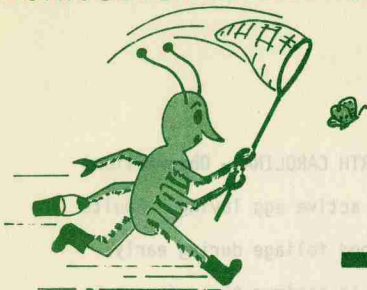
TO: County Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *T.N. H.*  
 SUBJECT: Insect Survey Report

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

## FOREST AND SHADE TREES

A BARK BEETLE (Pityogenes sp.) - NORTH CAROLINA - Adult bark beetles were observed April 10, 1974 attacking white pine in Macon and Cherokee Counties. Attack seems restricted to trees in a stressed condition and may result in death of the tree. Severe injury occurred to approximately 150 trees (5 to 7 ft.) which had been recently dug for sale. This insect was observed attacking white pine in limited numbers during 1973 in Alleghany, Catawba, and Burke Counties. Attack appears to begin near base of lower branches. First evidence of attack is small (dia. of pencil lead) mass of resin and frass (similar to fine sawdust). (Ledford, N.C.D.A.; Brewer, Ag. Ext.; Hunt, Ag. Ext.).





Knight

# entomology

April 26, 1974

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

*T. N. H.*

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APR 29 1974

ENTOMOLOGY DEPT.

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

VEGETABLES

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - NORTH CAROLINA - Adults and eggs were observed April 24, 1974 on Irish potatoes in Tyrrell County. Adults and young larvae have also been observed in pepper plant beds near Clinton, Sampson County. Infestations were restricted to scattered 1 sq. ft. spots in two of 15 beds observed.

Light trap collections and observations in Carteret County, Tyrrell County, Sampson County and Harnett County indicate increased adult activity throughout Coastal Plain. (Wrench, Cannon Foods; Sorensen, Ext.; Hunt, Ext.)

COLORADO POTATO BEETLE (*Leptinotarsa decemlineata*) - NORTH CAROLINA - Samples taken in Tyrrell County revealed 10 adults and 36 egg masses per 100 plants in some Irish potato fields. Reports have also been received from Pamlico County, where conditions warrant treatments should commence within a week. (Sorensen, Ext.)



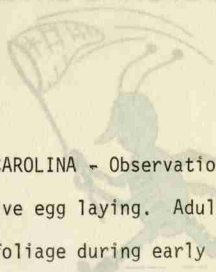
ORNAMENTALS

BOXWOOD LEAF MINER (Monarthropalpus buxi) - NORTH CAROLINA - Observations from eastern Piedmont and Coastal Plain reveal very active egg laying. Adults are tiny, orange bodied insects and hover near boxwood foliage during early morning and late afternoon, when laying eggs. This is optimum time of year to apply controls for boxwood leaf miners, which damage boxwoods over the entire state.

MAN AND ANIMALS

ROCKY MOUNTAIN SPOTTED FEVER - The first two 1974 cases of the disease have been diagnosed from Rockingham County. This disease is carried by ticks in North Carolina, primarily the American dog tick, Dermacentor variabilis.

bp/330





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MAY 6 1974

Knight

ENTOMOLOGY DEPT.

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May 3, 1974



TO: County Extension Agents and Other Interested Persons

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

SUBJECT: Insect Survey Report

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

SMALL GRAIN

ARMYWORM (Pseudaletia unipuncta) - NORTH CAROLINA - True armyworm damage is occurring to small grains in eastern Coastal Plain. Reports have been received from Pasquotank and Pamlico Counties. Farmers in Pamlico County are in the process of treating approximately 1000 acres. (Rea, Ext.; Ogle, Hercules).

VEGETABLES

EUROPEAN CORN BORER (Ostrinia nubilalis) - NORTH CAROLINA - Light trap collections and egg mass counts from Harnett, Sampson, Carteret, Tyrrell, Pamlico and Camden Counties indicate that eggs and young larvae are beginning to appear. Dr. K. A. Sorensen believes that chemical controls in Coastal Plain Irish potato fields will be correctly timed this year if initiated week of May 6 - 11.

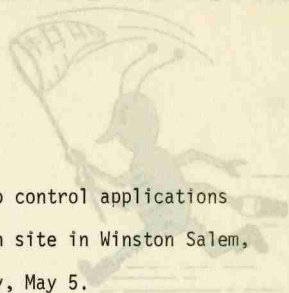


FOREST AND SHADE

GYPSEY MOTH (Porthetria dispar) - NORTH CAROLINA - Two control applications of Sevin 4 oil have been made over the egg mass collection site in Winston Salem, Forsyth County. A third application is planned for Monday, May 5. (Johnson, APHIS-PP).

bd/330

THE USE OF TRADE NAMES IN THIS NOTE DOES NOT CONSTITUTE ENDORSEMENT OF ONE PRODUCT TO THE EXCLUSION OF OTHERS.



*Dr. Knight*



# entomology

May 10, 1974

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

*T.N.H.*

RECEIVED

MAY 13 1974

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

ENTOMOLOGY DEPT.

SMALL GRAIN

ARMYWORM (Pseudaletia unipuncta) - NORTH CAROLINA - Damage continued this week in Coastal counties. Approximately 5,000 acres of wheat have been sprayed to date with plans for 1,000 more to be treated in Pamlico County.

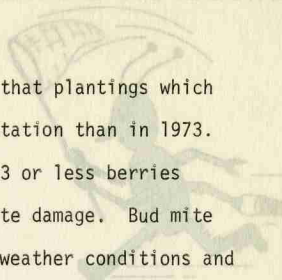
Reports of scattered infestations have also been received from Beaufort and Pasquotank Counties. Infestations seem to be concentrated in wheat with light damage in oats and barley. (Ogle, Hercules; Hunt, Ext.).

SMALL FRUITS

BLUEBERRY BUD MITE (Acalitus vaccinii) - NORTH CAROLINA - The annual spring blueberry bud mite damage survey of the Wolcott variety was not conducted for 1974 due to the extremely erratic blooming pattern of Wolcott blueberries this year. An accurate appraisal was impossible on this variety.



INSECT SURVEY NOTES



Observation in Pender and Duplin Counties indicate that plantings which received improper bud mite controls have a heavier infestation than in 1973. One field observed had almost 3 times as many buds with 3 or less berries this year than in 1973. This loss was largely due to mite damage. Bud mite controls during 1973 were very critical due to the mild weather conditions and the non-characteristic blooming pattern of Wolcotts. Some farmers feel the combination will reduce the Wolcott yield by 50+% this year. Typical blooming and berry set is occurring on most other commercial varieties in the area.

(Weaver, Dept. of Ent.; Hunt, Ext.)

bd/330

TO: Thomas N. Hunt, Survey Entomologist  
FROM: Thomas N. Hunt, Survey Entomologist  
SUBJECT: Insect Survey Report  
This report is compiled by: Thomas N. Hunt, Survey Entomologist  
Raleigh, North Carolina

SMALL GRAIN

BARLEY (Pseudocercia unipuncta) - NORTH CAROLINA - Damage continued this week in Coastal Counties. Approximately 2,000 acres of wheat have been sprayed to date with plans for 1,000 more to be treated in Pamlico County. Reports of scattered infestations have also been received from Beaufort and Pasquotank Counties. Infestations seem to be concentrated in wheat with light damage in oats and barley. (Opie, Hercules; Hunt, Ext.)

SMALL FRUITS

BLUEBERRY BUD MITE (Acaritus vaccinii) - NORTH CAROLINA - The annual spring blueberry bud mite damage survey of the Wolcott variety was not conducted for 1974 due to the extremely erratic blooming pattern of Wolcott blueberries this year. An accurate appraisal was impossible on this variety.





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

During Week of May 1-8, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Southern Field Crops</u>				
Duplin	1	Tobacco	Adult	Vegetable weevil, <i>Listroderes costirostris obliquus</i>
<u>Grain, Soybeans &amp; Forages</u>				
Guilford	2	Red clover	Larvae & adults; all	Lesser clover leaf weevil, <i>Hypera nigrirostris</i> ; and undet. spider mite
Johnston	1	Corn	Larvae	Southern corn rootworm, <i>Diabrotica undecimpunctata howardi</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Alamance	1	Silver maple	Galls	Maple bladdergall mite, <i>Vasates quadripes</i>
Alamance	1	Plectranthus	All	Undet. coccid scale
Buncombe	1	Juniper	Adults	Undet. diaspidid scale
Cumberland	1	Hickory	Adults in galls	Phylloxeran, <i>Phylloxera</i> sp.
Gaston	2	Chinese holly	Adults	Wax scale, <i>Ceroplastes</i> sp.; and prob. tea scale, prob. <i>Fiorinia theae</i>
Gaston	1	Japanese holly	Adults	Wax scale, <i>Ceroplastes</i> sp.
Guilford	3	Schefflera	All	Undet. mealybug; undet. coccid scale; and undet. spider mite
New Hanover	1	Pitcher plant	Larva	Noctuid moth, <i>Exyra rolandiana</i>
Perquimans	1	Red maple	Dead adults	Prob. gloomy scale, <i>Melanaspis</i> prob. <i>tenebricosa</i>
Pitt	3	Birch	--	Aphid, <i>Celaphis betulella</i> ; Fuller rose beetle, <i>Pantomorus cervinus</i> ; and olethreutid moth, <i>Epinotia near nisella</i>
Pitt	1	Silver maple	Galls	Maple bladdergall mite, <i>Vasates quadripes</i>
Pitt	1	Pine	Old injury	Undet. aphid
Swain	1	Boxwood	Pupae, old injury	Boxwood leafminer, <i>Monarthropalpus buxi</i>
Wake	1	White ash	Larvae	Brownheaded ash sawfly, <i>Tomostethus multicoloratus</i>
Wake	1	Azalea	Old injury	Undet. spider mite
Wake	1	Gloxinia	All	Undet. mealybug
Wake	1	Hop hornbeam	?All	Undet. aphid
Wake	1	Jerusalem cherry	All	Green peach aphid, <i>Myzus persicae</i>
Wake	1	Maple	Old injury	Diaspidid scale, prob. <i>Melanaspis</i> sp.
Wake	1	Red maple	Galls	Maple leaf spots, ( <i>Cecidomyia</i> ) <i>ocellaris</i>
Wake	1	Silver maple	Galls	Maple bladdergall mite, <i>Vasates quadripes</i>
Wake	1	White oak	Pupae	Wool sower, <i>Callirhytis seminator</i>
Warren	1	Iris	Young larvae	Iris borer, <i>Macronoctua onusta</i>
<u>Fruit</u>				
Currituck	1	Concord grape	Larvae in galls	Undet. grape tomato gall
Guilford	1	Apple	Adults, eggs, young larvae	Undet. bark beetle

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

Page Two

Week of May 1-8, 1974

Vegetables (Commercial & Garden)

Robeson	1	Tomato	Eggs
Stokes	1	Tomato	Larvae

Undet. beetle?
Leafminer, <i>Liriomyza</i> prob. <i>sativae</i>

Wood Destroying Insects

Anson	1	Dead grape stem	Injury
Chatham	1	Dying apple	All
Wake	1	Dead pine	Pupae & adults

Undet. beetle
Bark beetle, <i>Xyleborinus saxeseni</i>
Weevil, <i>Pissodes</i> sp.

Household & Industrial Insects

Edgecombe	1	In oatmeal	Adults
Harnett	1	In furniture store	Adult
Montgomery	1	In home	Adult
Rowan	1	In kitchen	Adults
Sampson	1	Ear corn in crib	Adults
Yadkin	1	In brewers grain	Larvae
Orange	1	In home	Queen
Wake	1	In home	Queen

Sawtoothed grain beetle, <i>Oryzaephilus surinamensis</i>
Spider beetle, <i>Gibbium psyllodes</i>
Sawtoothed grain beetle, <i>Oryzaephilus surinamensis</i>
Cigarette beetle, <i>Lasioderma serricorne</i>
Dark mealworm, <i>Tenebrio obscurus</i>
Soldier fly, <i>Hermetia illucens</i>
Paper wasp, <i>Polistes</i> sp.
Yellowjacket, <i>Vespula maculifrons</i>

Miscellaneous & Accidental Household

Orange	1	In home	Workers
Randolph	1	In cabin	Adult
Wake	1	In apartment	Adult
Wake	1	In laundry room	Adult

Honeybee, <i>Apis mellifera</i>
Wood roach, <i>Parcoblatta</i> sp.
Crab spider, <i>Xysticus</i> sp.
Pisaurid spider, <i>Pisaurina</i> sp.

Miscellaneous

Alamance	1	On water oak	Eggs & nymphs
Beaufort	1	On soybeans	Old egg mass
Cleveland	1	On lawn, side-walks, etc.	Larvae
Iredell	1	In trees	Queen
Pamlico	1	In light trap	Adults
Rowan	1	Around a compost pile	Queens
Sampson	1	In corn crib	Adult

Wheel bug, <i>Arilus cristatus</i>
Chinese mantid, <i>Tenodera aridifolia sinensis</i>
Mourningcloak butterfly, <i>Nymphalis antiopa</i>
Yellowjacket, <i>Vespula squamosa</i>
Sphinx moth, <i>Smerinthus</i> sp.; Noctuid moth, <i>Arzama obliqua</i> ; and an undet. Noctuid moth
Yellowjacket, <i>Vespula squamosa</i>
Assassin bug, <i>Reduvius personatus</i>



Dr. Knight  
*entomology*  
 MAY 20 1974

May 17, 1974

TO: County Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist

SUBJECT: Insect Survey Report

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

Raleigh, North Carolina

*T.N.H.*

SMALL GRAIN

ARMYWORMS (Pseudaletia unipuncta) - NORTH CAROLINA - Armyworm damage continues in coastal counties, primarily in wheat and also in rye grass pastures. Five hundred acres were treated in Hyde and Washington counties. (Van Duyn, Ext.)

FOREST AND SHADE TREES

PERIODICAL CICADAS (Magicicada sp.) - NORTH CAROLINA - Periodical cicadas have been reported from the Old Fort, Burke County, and Asheville, Buncombe County area. First observation reported May 9 in Asheville. Thousands were reported in the area. Egg laying and resulting twig punctures will begin in 1 to 2 weeks. This brood should have completed emerging in approximately 2 weeks. (Figure 1). (Bowen, APHIS; Ashton, N. C. State Board of Health).



SOUTHERN PINE BEETLES (Dendroctonus frontalis) - NORTH CAROLINA - Southern pine beetles continue to be a severe problem over virtually all of North Carolina. However, heaviest infestation levels are in the Western Piedmont and Eastern Mountain counties (Figure 2). The latest North Carolina Forest Service information indicates 7,000+ active beetle infested spots in the State (figures do not include Federal land). Forest Service personnel feel that this is one of the worst early spring infestations encountered in over 10 years. Since July 1973, approximately 31 million bd. ft. of sawtimber and 61,000 cords of pulpwood have been salvaged from state and private lands. Salvage operations are being hampered in some areas by a rail car shortage. (N. C. Forest Service, Forest Pest Newsletter; Phillips, Ext., Halifax County).

bd/330



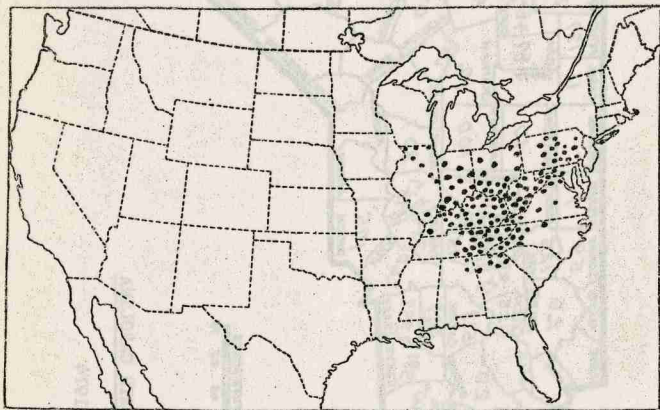


Figure 1.

Periodical Cicadas

Erood XIV

17-year race





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

During Week of May 9-15, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Grain, Soybeans &amp; Forages</u>				
Chatham	2	Red clover	All	Lesser clover leaf weevil, <i>Hypera nigrirostris</i> ; and undet. mealybug
Lenoir	1	Corn	Larvae	Black cutworm, <i>Agrotis ipsilon</i>
Washington	1	Corn	Young larvae	Black cutworm, <i>Agrotis ipsilon</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Alamance	1	Hickory	Adults in gall	Undet. phylloxeran
Ashe	1	Fraser fir	Injury	Undet. beetle
Beaufort	1	Columbine	--	Undet. leafminer
Beaufort	2	Chinese holly	--	Prob. tea scale, prob. <i>Fiorinia theae</i> ; and coccid scale prob. <i>Pulvinaria</i> sp.
Buncombe	1	Spruce	Old injury	Undet. aphid
Caldwell	2	Lawn	Larvae	Asiatic garden beetle, <i>Maladera castanea</i> ; and June beetle, <i>Phyllophaga</i> sp.
Currituck	1	Loblolly pine	Adults & eggs	Undet. bark aphid
Gaston	1	Willow oak	Galls	Cynipid wasp, <i>Dryocosmus floridensis</i>
Gates	1	Hemlock	Adults	Wax scale, <i>Ceroplastes</i> sp.
Hertford	1	Houseplants	All	Undet. mealybug
Moore	1	Hickory	Old galls	Undet. phylloxeran
Transylvania	1	Azalea	Adults	Prob. azalea bark scale, prob. <i>Eriococcus azaleae</i>
Yancey	1	Rhododendron	Old injury & nymphs	Rhododendron lace bug, <i>Stephanitis rhododendri</i>
Wake	1	Andorra juniper	All	Undet. spider mite
Wake	1	Nightshade	Adults	Leaf beetle, <i>Lema solani</i>
Wake	1	Purple velvet plant	All	Undet. aphid
Wayne	1	Japanese yew	Dead adults, eggs	Coccid scale, prob. <i>Pulvinaria</i> sp.
<u>Fruit</u>				
Alamance	2	Strawberry	Adult; young nymphs	Strawberry weevil, <i>Anthonomus signatus</i> ; and undet. plant bug
Duplin	1	Muscadine grape	Larvae	Prob. grape flea beetle, prob. <i>Altica chalybea</i>
<u>Vegetables (Commercial &amp; Garden)</u>				
Cabarrus or Rowan	1	Tomato	Injury	Undet. prob. flea beetle
Guilford	1	Tomato	Larvae	Prob. seedcorn maggot, prob. <i>Hylemya platura</i>
Harnett	1	Pepper	Young larva	European corn borer, <i>Ostrinia nubilalis</i>



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

Page Two

Week of May 9-15, 1974

Wood Destroying Insects

?New Hanover	1	Around window in home	Adults	Bark beetle, <i>Pseudopityophthorus</i> sp.
Vance	1	Around window in home	Adults	Smaller European elm bark beetle, <i>Scolytus multistriatus</i>
Wake	1	Swarming in home	Alates	Subterranean termite, <i>Reticulitermes virginicus</i>

Household & Industrial Insects

?Guilford	2	In store window	Adults	Cabinet beetles, <i>Trogoderma inclusum</i> and <i>T. prob. sternale</i>
Wake	2	In bathroom in home	Adults	Moth flies, <i>Telmatoscopus albipunctatus</i> (2 separate samples)
Wake	1	In sack of old flour	Adults	Confused flour beetle, <i>Tribolium confusum</i>
Wake	1	In kitchen in home	Adult	Wood roach, <i>Parcoblatta</i> prob. <i>lata</i>

Miscellaneous & Accidental Household

Pamlico	1	In home	Adult	Greenhouse stone cricket, <i>Tachycines asynamorus</i>
Wake	2	In kitchen in home	Juvenile; & adults	Crab spider, prob. <i>Philodromus</i> sp.; and undet. crambine pyralid moth

Miscellaneous

Chatham	1	--	Adult	Wolf spider, <i>Lycosa</i> sp.
Duplin	1	On muscadine grape	Young nymphs	Undet. stink bug
Johnston	1	In yard	Workers	Ant, <i>Trachymyrmex septentrionalis</i>
Pitt	1	Around door of home	Adults	Soldier beetle, <i>Cantharis</i> sp.





*Dr. Knight*  
*entomology*  
 RECEIVED

MAY 27 1974

ENTOMOLOGY DEPT. May 24, 1974

TO: County Extension Agents and Other Interested Persons

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

SUBJECT: Insect Survey Report

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

SOYBEANS

MEXICAN BEAN BEETLE (Epilachna varivestis) - NORTH CAROLINA - Spot checks in 12 fields in Sampson, Wayne, Johnston and Robeson counties indicate that some fields have a damaging population of Mexican bean beetle and bean leaf beetle adults on 2 and 4 leaf soybeans. Three of 12 fields observed in Sampson county had roughly 20% foliage loss.

Farmers in the coastal plain should be urged to survey their soybeans. Bean beetle damage to young beans can easily go unnoticed. (Hunt, Ext., Johnson, APHIS)  
 FOREST AND SHADE TREES

BARK BEETLE (Scolytidae: Hylurgops sp.) - NORTH CAROLINA - An adult was collected from a 75-80 year old white pine (Pinus strobus) May 15, 1974 in Asheville, Buncombe co. Collection was made by S. Barden and identification was made by D. L. Stephan, N.C.S.U. According to our records this is a state record for the genus. (Hunt, Ext.)



PERIODICAL CICADA (Magicalcada septendecim) - NORTH CAROLINA - Collections confirm the presence of broad XIV, 17-year race in McDowell, Buncombe county area. First report of observation was May 9, 1974, Asheville, Buncombe county. Sightings were also made near that date in Old Fort, McDowell county. Information concerning this brood is incomplete, any reports of date of emergence, location of emergence, size of infestation and any notes on damage would be greatly appreciated by this office and the U.S.

National Museum of Natural History. Send any reports to the Survey Entomologist and I will compile and forward to the Museum. (Love, Ext., Bowers, APHIS)

BENEFICIAL INSECT

ALFALFA WEEVIL PARASITE (Bathyleptes curculionis) - NORTH CAROLINA - Expansion of the annual alfalfa weevil parasite survey into Buncombe and Macon counties revealed an expansion of this beneficial insects range. In Buncombe county 8.6% and in Macon county 5.2% of the collected larvae were parasitized by B. curculionis. The survey also indicated dramatic increases in the percent parasitization by this insect in Rowan, Wake and Ashe counties, since 1972. The highest % parasitization observed was 58% of the larvae in a Rowan county field. This parasite was released in Wake, Rowan, and Ashe counties during 1971. (Campbell, Dept. of Ent., N.C.S.U.)

MAN AND ANIMALS

ROCKY MOUNTAIN SPOTTED FEVER - NORTH CAROLINA - The N. C. State Board of Health has reported 14 cases of this disease since mid April. One fatality occurred in Wake county. The American dog tick is a primary vector of this disease in our state. (Hunt, Ext.)



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

During Week of May 16-22, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Grain, Soybeans &amp; Forages</u>				
Chatham	3	Red clover	--	Lesser cloverleaf weevil, <i>Hypera nigrirostris</i> ; prob. clover root curculio, <i>Sitona</i> prob. <i>hispidula</i> ; and undet. olethreutid moth
Currituck	1	Corn	Larvae	Black cutworm, <i>Agrotis ipsilon</i>
Jones	1	Corn	Adults	Billbug, <i>Sphenophorus callosus</i>
Pasquotank	1	Corn	Larvae	Black cutworm, <i>Agrotis ipsilon</i>
Wayne	1	Corn	Adult	Maize billbug, <i>Sphenophorus maidis</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Alexander	1	Sweetgum	Nymphs	Diaspidid scale, prob. <i>Diaspidiotus liquidambaris</i>
Avery	1	Fraser fir	Larva	Geometrid moth, <i>Campaea perlata</i>
Catawba	1	Hickory	Old galls	Phylloxeran, <i>Phylloxera</i> sp.
Catawba	1	Silver maple	Galls	Maple bladdergall mite, <i>Vasates quadripes</i>
Cherokee	1	Ligustrum	All	Undet. Eriophyid mite
Duplin	1	Silver maple	Dead adults	Prob. gloomy scale, <i>Melanaspis</i> prob. <i>tenebricosa</i>
Harnett	2	Juniper	Old cocoons; dead adults	Bagworm, <i>Thyridopteryx ephemeraeformis</i> ; and undet. Diaspidid scale
Haywood	1	Silver maple	Galls	Maple bladdergall mite, <i>Vasates quadripes</i>
Iredell	1	White oak	Pupae in gall	Wool sower, <i>Callirhytis seminator</i>
Johnston	2	Camellia japonica	All; and nymphs	Undet. aphid; and undet. Flatid planthopper
Lee	1	Oak	Adult	Weevil, <i>Tachygonus</i> sp.
Lincoln	1	Silver maple	?All	Prob. gloomy scale, <i>Melanaspis</i> prob. <i>tenebricosa</i>
McDowell	1	Wooded area	Adults	Periodical cicada, <i>Magicicada septendecim</i>
Moore	1	English ivy	All	Undet. spider mite
Orange	2	Buddleia	All	Undet. spider mite; and undet. false spider mite
Orange	1	Juniper	All	Undet. spider mite
Pitt	1	Pine	Old galls	Pitchgall midge, <i>Cecidomyia</i> sp.
Sampson	1	Silver maple	?All	Prob. gloomy scale, <i>Melanaspis</i> prob. <i>tenebricosa</i>
Wake	1	Aphelandra	--	Undet. aphid
Wake	1	Boxwood	Old injury	Boxwood leafminer, <i>Monarthropalpus buxi</i>
Wake	1	Hickory	Old galls	Phylloxeran, <i>Phylloxera</i> sp.
Wake	1	Bent grass	Larvae	Black cutworm, <i>Agrotis ipsilon</i>
Wake	1	Magnolia	Dead adults & nymphs	Prob. tuliptree scale, prob. <i>Toumeyella liriiodendri</i>
Wake	1	Scarlet oak	Galls	Undet. eriophyid mite
Wake	1	White oak	Young larvae	Gracillariid moth, prob. <i>Cameraria</i> sp.
Wake	1	Peperomia	All	Undet. mealybug
Wake	1	Pine	Old galls	Pitch gall midge, <i>Cecidomyia</i> sp.

## Summary of Specimens Processed by Insect Clinic, NCSU

Page Two

Week of May 16-22, 1974

Wake	1	African violet	?all	Undet. mealybug
Wilson	1	Rose	All	Undet. spider mite
<u>Fruit</u>				
Beaufort	1	Bunch grapes	Old galls	Undet. grape tomato gall
Beaufort	1	Peach	Injury	Prob. oriental fruit moth, prob. <i>Grapholitha molesta</i>
Caldwell	2	Strawberry	All; and adult	Undet. spider mite; and scarab beetle, <i>Ataenius</i> sp.
Currituck	1	Concord grape	Larvae in galls	Undet. grape tomato gall
Gaston	1	Strawberry	All	Undet. spider mite
Guilford	1	Muscadine grape	Larvae	Prob. grape flea beetle, prob. <i>Altica chalybea</i>
Iredell	2	Strawberry	All; and old injury	Undet. spider mite; and undet spittlebug
Johnston	1	On apple, feeding?	Adult	Coreid bug, <i>Euthochtha galeator</i>
Stokes	1	Strawberry	All	Undet. spider mite
<u>Vegetables (Commercial &amp; Garden)</u>				
Washington	1	Irish potato	Larvae	Undet. agromyzid leafminer
Wilson	1	Irish potato	Adults	Leaf beetle, <i>Plagiometriona clavata</i>
<u>Wood Destroying Insects</u>				
Alamance	1	Carport framing	Larva & pupae	Oldhouse borer, <i>Hylotrupes bajulus</i>
Buncombe	2	Dying white pine	Adults	Bark beetles, <i>Orthotomicus</i> sp. and <i>Hylurgops</i> sp.
Polk	2	Dying apple	All; and adult	Bark beetles, <i>Xyleborinus saxeseni</i> and <i>Ambrosiodmus</i> sp.
South Carolina state	2	Dying sweet-gum graft	All; and adults	Bark beetles, <i>Xyleborinus saxeseni</i> and <i>Xylosandrus</i> sp.
<u>Household &amp; Industrial Insects</u>				
Caldwell	1	In furniture padding	--	Undet. mite
Cumberland	1	In home	Adults	Moth fly, <i>Telmatoecopus albipunctatus</i>
Orange	1	In milk room	Larvae, adult	Syrphid fly, <i>Eristalis</i> sp.
Wake	1	In building	Adult	Carpet beetle, <i>Anthrenus coloratus</i>



## Summary of Specimens Processed by Insect Clinic, NCSU

Page Three

Week of May 16-22, 1974

Miscellaneous & Accidental Household

Alleghany	1	In home	Adult	Ground beetle, <i>Galeritula</i> sp.
McDowell	1	In basement	Adult	Yellow woollybear, <i>Diacrista virginica</i>
Wake	1	In bed	Adult	Assasin bug, <i>Reduvius personatus</i>
Wake	1	In basement	Adult	Gloworm, <i>Phengodes</i> sp.

Miscellaneous

Beaufort	1	Mound on cattle farm	Workers	Silky ant, <i>Formica fusca</i> complex
Cleveland	1	Around doors & windows	Queen	Yellowjacket, <i>Vespula maculifrons</i>
Cumberland	2	In lawn	Young larvae	Undet. ground beetles
Durham	1	Around home	Adults	Undet. midge
Forsyth	1	On dead branches	Pupae	Undet. ladybird beetle
McDowell	1	Burrowing in garden	Adults	Colletid bee, <i>Colletes</i> sp.
Moore	1	On ash	Larvae & pupae	Ladybird beetle, <i>Olla abdominalis</i>
Swain	1	At light	Adult	Undet. geometrid moth
Virginia state	1	On tent	Adults	Rosy maple moth, <i>Dryocampa rubicunda</i>
Wake	1	On porch, etc.	All	Undet. entomobryid springtail
Wake	1	Under bucket	Adults	Flatworm, <i>Bipalium kewense</i>
Wilson	1	On porch	All	Undet. entomobryid springtail

Dr. Knight

entomology



May 31, 1974

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

RECEIVED

JNH

JUN 3 1974

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

ENTOMOLOGY DEPT.

CORN

CORN BLOTCH LEAF MINER (Agromyza parvicornis) - NORTH CAROLINA - Reports and observations across the entire coastal plain indicate that a general infestation is occurring. Lower leaves in many fields have been severely mined. Even though this damage is unsightly, yield loss due to this insect is very rare. The very fast growing young corn will out grow the damage. (Falter, Ext., Hunt, Ext.)

SOYBEANS

MEXICAN BEAN BEETLE (Epilachna varivestis) - NORTH CAROLINA - Spot checks in Cumberland and Robeson counties reveal that eggs and young (1st instar) larvae are occurring on soybeans in the area. Counts in 10 fields ranged from 11 adults per 100 feet of row to 40 adults per 100 feet of row with eggs in every field.

This population level is not presently causing economic injury, however, the threat of a larval build up warrants checking young soybeans. (Hunt, Ext., Harper, Dept. of Ent.)



TOBACCO

TOBACCO BUDWORM (Heliothis virescens) - NORTH CAROLINA - Spot checks in roughly 25 tobacco fields in Robeson, Cumberland, Harnett and Wake counties indicate heavy budworm infestations. 50% of the fields inspected in Robeson county and south Cumberland county were at the threshold level (10% of the plants infested). Infestation levels ranged from 80% to 2%. (Hunt, Ext., Harper, Dept. of Ent.)

FOREST AND SHADE TREES

PERIODICAL CICADA (Magicicada septendecim) - NORTH CAROLINA - Oviposition is occurring in Old Fort, McDowell county and Asheville, Buncombe county. Emergence continues in the mountains. Infestation observed May 23 and 24, 1974 near Burnsville, Yancey county and Ingalls, Avery county. (Hillman, Ext. Johnson, APHIS)

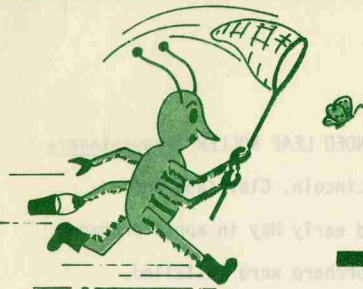
SMALL FRUITS AND VEGETABLES

RED BANDED LEAF ROLLER (Argyrotaenia velutinana) - NORTH CAROLINA - Adult collections in sex lure traps (3 traps/10 A) began 23 April 1974 in Lincoln and Cleveland county apple orchards. In Henderson county, collection began 2 May 1974. The following table gives a trapping summary which indicates emergence of the F1 generation. (Yeargin, Dept. of Ent.)

Red Banded Leaf Roller Sex Lure Trap  
Collections in N. C. Apples

Lincoln County		Cleveland County		Henderson County	
(150 ac)	RBLR	(130 ac)	RBLR		RBLR
23 April	8	24 April	5	2 May (260 ac)	21
7 May	2	8 May	9	8-11 May (350 ac)	15
14 May	0	15 May	1	14-17 May (440 ac)	8
22 May	14	21 May	25	22-27 May (440 ac)	12
28 May	106	29 May	154		

Dr. Knight



entomology

June 7, 1974

RECEIVED

JUN 10 1974

ENTOMOLOGY DEPT.

TO: County Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist

J. N. H.

SUBJECT: Insect Survey Report

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

TOBACCO

TOBACCO BUDWORM (Heliothis virescens) - NORTH CAROLINA - Spot checks for budworms in tobacco indicate that untreated fields continue to receive damage, particularly in the southern Coastal Plain. Approximately 25% of the plants observed in Harnett County area were damaged; however, only 5% of the plants harbored larvae. This indicates controls have been applied in most cases. Treatment should only be applied if larvae are present. (Scott, Ext., Hunt, Ext.)

FOREST AND SHADE TREES

PERIODICAL CICADAS (Magicicada septendecim) - NORTH CAROLINA - Emergence continued this week in the Oteen area of Asheville, Buncombe County. Oviposition damage is very apparent on yard trees, particularly oaks. of this residential area. Specimens were also collected this week from Edgemont, Avery County and Collettsville, Caldwell County. (Hunt, Ext.)





FRUITS

CODLING MOTH (Laspeyresia pomonella) and RED BANDED LEAF ROLLER (Argyrotaenia velutinana) - NORTH CAROLINA - Sex Lure trapping in Lincoln, Cleveland and Henderson Counties was initiated during late April and early May in apple orchards of these counties. Roughly 3 traps per 10 acres of orchard were installed. (Rock, Dept. of Ent.)

Apple Sex Lure Trap Survey

Lincoln

	RBLR	Codling Moth
23 April 1974	8	254
7 May 1974	2	305
14 May 1974	0	121
22 May 1974	14	145
28 May 1974	106	83
4 June 1974	119	86

Cleveland

24 April 1974	5	213
8 May 1974	9	242
15 May 1974	1	148
21 May 1974	25	131
29 May 1974	154	96
5 June 1974	114	57

Henderson

2 May 1974	21	206
8 May-11 May 1974 (350 ac)	15	206
14 May-17 May 1974 (440 ac)	8	304
22 May-27 May 1974 (450 ac)	12	382
29 May- 3 June 1974 (340 ac)	18	124



During Week of May 23-29, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Grains, Soybeans &amp; Forages</u>				
Catawba	1	Corn	Larva	Wireworm, <i>Melanotus</i> sp.
Johnston	1	Corn	Larvae	Corn blotch leafminer, <i>Agromyza parvicornis</i>
Wayne	1	Corn	Adults	Spring rose beetle, <i>Strigoderma arboricola</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Bladen	1	White oak	Adult	Asiatic oak weevil, <i>Cyrtopistomus castaneus</i>
Cleveland	1	Post oak	Galls	Gall wasp, <i>Neuroterus</i> near <i>tantulus</i>
Harnett	1	Rose	All	Eastern flower thrips, <i>Frankliniella tritici</i>
Lincoln	1	Pyracantha	Larvae	Leaf crumpler, <i>Acrobasis indiginella</i>
Robeson	1	Sunflower	Adults	Carrot beetle, <i>Bothynus gibbosus</i>
Rutherford	1	Willow oak	Young larvae	Undet. moth
Wake	1	White ash	Galls	Undet. gall midge
Wake	2	Birch	?All	Undet. aphids
Wake	2	Silver maple	Galls; and larva	Maple bladdergall mite, <i>Vasates quadripes</i> ; and undet. moth
Wake	1	Southern red oak	Old gall	Gall wasp, <i>Amphibolips</i> sp.
Wake	1	White oak	Pupae in galls	Wool sower, <i>Callirhytis seminator</i>
Wake	1	Rose	All	Eastern flower thrips, <i>Frankliniella tritici</i>
Wilson	1	Yaupon	Old injury	Native holly leafminer, <i>Phytomyza illicicola</i>
Wayne	1	Flowers	Nymphs	Acridid grasshopper, prob. <i>Dissosteira</i> sp.
<u>Fruit</u>				
Bladen	1	In dead grape terminal	Young larva	Undet. Elaphidionine longhorned beetle
Martin	1	Peach	Larva	Plum curculio, <i>Conotrachelus nenuphar</i>
Pamlico	1	Pecan	Larva	Underwing moth, <i>Catocala</i> sp.
Rowan	1	Peach	Larvae	Plum curculio, <i>Conotrachelus nenuphar</i>
<u>Vegetables (Commercial &amp; Garden)</u>				
Beaufort	1	Snap beans	--	Undet. aphid
Columbus	1	Irish potato	Larvae	European corn borer, <i>Ostrinia nubilalis</i>
Harnett	1	Irish potato	Larva	Colorado potato beetle, <i>Leptinotarsa decemlineata</i>
Lee	1	Snap beans	All	Undet. spider mite
Lenoir	1	On string beans	Adult	Leaf beetle, <i>Metriorhina bicolor</i>
Moore	1	Snap beans	Young larvae	Undet. maggot
Pender	1	Butterbeans	Young larvae	Limbean vine borer, <i>Monoptilota pergratialis</i>

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

Page Two

Week of May 23-29, 1974

Pender 1 Irish potato Larvae  
 Wayne 1 Vegetables Nymphs  
 Wilson 1 Irish potato Adults

Household & Industrial Insects

Wake 1 In home Adults

Miscellaneous & Accidental Household

Wake 2 In homes Queens

Miscellaneous

Edgecombe 1 In yard Adult  
 Iredell 1 Around home Adults  
 Johnston 2 In corn field Adults  
 Lincoln 1 In golf course turf Adults  
 Robeson 1 In yard Worker  
 Rowan 1 On porch Adult  
 Rutherford 1 On side of house Adults  
 Sampson 1 Around home Adults

European corn borer, *Ostrinia nubilalis*  
 Acridid grasshopper, prob. *Dissosteira* sp.  
 Leaffooted bug, *Leptoglossus phyllopus*

Indian meal moth, *Plodia interpunctella*

Yellowjacket, *Vespa maculifrons* (2 separate samples)

Flatworm, *Bipalium kewense*  
 Greenhouse millipede, *Oridus gracilis*  
 Ground beetles, *Anisodactylus* sp. and *Anisotarsus* sp.  
 Ground beetle, *Amara* sp.  
 Carpenter ant, *Camponotus nearcticus*  
 Polyphemus moth, *Antheraea polyphemus*  
 Darwinged fungus gnat, *Bradystia* sp.  
 Undet. midge

Dr. King JUN 18 1974  
ENTOMOLOGY DEPT.

entomology



June 14, 1974

TO: County Extension Agents and Other Interested Persons

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

SUBJECT: Insect Survey Report

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

CORN

CORN BLOTCH LEAFMINER (Agromyza parvicornis) - NORTH CAROLINA - Spot checks and reports from agricultural workers indicate that the incidence of leafminer injury (bladeworm) is higher in the Sampson and Cumberland County area than other areas of the Coastal Plain. Observations in 30 fields scattered across the Northern Coastal Plain (Franklin, Warren, Wilson, Martin, Washington, and Hyde Counties) revealed no incidence of leafminer injury. Reports of a planned chemical treatment were received this week from Sampson County. Records and experience of entomologists at N. C. State indicate practically no yield loss due to this pest. Reinfestation of the field by emerging adults is very rare. (Hunt, Ext.: Kimbrough, Ext.)





SOYBEANS

BEAN LEAF BEETLE (Cerotoma trifurcata) and MEXICAN BEAN BEETLE (Epilachna varivestis) - NORTH CAROLINA - A complex of bean leaf beetle adults, Mexican bean beetles, Mexican bean beetle larvae continue to damage young soybeans in fields scattered across the Coastal Plain. Three of 10 soybean fields (2-4 leaf stage) observed across Edgecombe, Martin, Washington and Hyde Counties have received 15-20% leaf loss. (Hunt, Ext.)

STATE AND FEDERAL QUARANTINE PROGRAMS

JAPANESE BEETLE (Popillia japonica) - NORTH CAROLINA - Adults are occurring over the entire Piedmont and Coastal Plain at the present time. Emergence in Mountains will occur in 2 weeks or less depending on altitude. First known collection in Wake County occurred June 9. Roses, grapes, azaleas and many fruit trees are readily attacked by this pest. (Hunt, Ext.)

bp/340



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

During Week of May 30-June 5, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Grains, Soybeans &amp; Forages</u>				
Harnett	1	Corn	Larva	Corn earworm, <i>Heliothis zea</i>
Madison	2	Corn	Larva; & adults	Armyworm, <i>Pseudaletia unipuncta</i> ; and grass thrips, <i>Anaphothrips obscurus</i>
Randolph	1	Corn	Adults	Grass thrips, <i>Anaphothrips obscurus</i>
Sampson	1	Corn	Adults	Corn blotch leafminer, <i>Agromyza parvicornis</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Alamance	1	Silver maple	All	Woolly alder aphid, <i>Prociphilus tessellatus</i>
Avery	1	Trees	Adults	Periodical cicada, <i>Magicicada septendecim</i>
Beaufort	1	Centipede grass	?Adults	Undet. ground pearl
Cabarrus	1	River birch	All	Aphid, <i>Hamamelistes spinosus</i>
Cabarrus	1	Sugar maple	Larvae	Undet. Olethreutid moth
Duplin	1	Evening primrose	?All	Flea beetle, <i>Altica</i> prob. <i>marevagans</i>
Guilford	1	Clematis	Larvae	Undet. darkwinged fungus gnat
Haywood	1	White pine	?All	White pine aphid, <i>Cinara strobil</i>
Pitt	1	Roses	Adults	Eastern flower thrips, <i>Frankliniella tritici</i>
Wake	3	Birch	--	Aphids, <i>Hamamelistes spinosus</i> and <i>Calaphis betulella</i> ; and undet. eriophyid mite
Wake	1	Chinese elm	?All	Elm leaf beetle, <i>Pyrrrhalta luteola</i>
Wake	2	Gardenia	All	Undet. spider mite and false spider mite
Wake	1	Impatiens	All	Undet. mealybug
Wake	2	Trumpet-creeper	Adults; and larvae	Leaf beetle, <i>Ocotoma plicatula</i> ; and undet. gracillariid moth
Wilson	2	Azalea	Old injury	Azalea leafminer, <i>Gracillaria azaleella</i> ; and undet. spider mite
<u>Fruit</u>				
Bertie	1	Pecan	Injury	Gray squirrel, <i>Sciurus carolinensis</i>
Camden	1	Grape	Larvae in galls	Undet. grape tomato gall
?Guilford	1	Grape	Larva & adult	Grape flea beetle, <i>Altica chalybea</i>
Macon	1	Grape	Larvae in galls	Undet. grape tomato gall
Pitt	1	Plums	Larva	Plum curculio, <i>Conotrachelus nenuphar</i>
Wake	1	Plums	?All	Undet. aphid
Wayne	1	Strawberry	Adults	Sap beetle, <i>Glischrochilus</i> sp.

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

Page Two

Week of May 30-June 5, 1974

Vegetables (Commercial & Garden)

Lenoir 1 Cucumber Old injury Undet. agromyzid leafminer

Wood Destroying Insects

Catawba 1 Dead pin oak Pupa Longhorned beetle, *Romaleum* sp.  
 Haywood 1 Dying white pine Young larva Longhorned beetle, *Rhagium inquisitor*

Mecklenburg 1 Dying water oak Pupa Carpenterworm, *Prionoxystus robiniae*

Wake 1 Dead white pine Pupae & adults Prob. white pine weevil, *Pissodes prob. strobi*

Wayne 1 Dying cherry All Bark beetle, *Xylosandrus* sp.

Household & Industrial Insects

Alamance 1 Car upholstery All Casemaking clothes moth, *Tinea pellionella*

Duplin 1 In bedroom Adults Rice weevil, *Sitophilus oryzae*

Montgomery 1 Throughout home Larvae Cabinet beetle, *Trogoderma* sp.

Miscellaneous & Accidental Household

New Hanover 1 In apartment Adult Wharf borer, *Naccerdes melanura*

Wake 1 In home Juvenile Gnaphosid spider, *Herpyllus* sp.

Wake 1 In apartment ?All Undet. entomobryid springtail

Miscellaneous

Alamance 2 In flower bed Adults Greenhouse millipede, *Oxidus gracilis*; and undet. sowbug

Burke 1 On window Adult Cowpea weevil, *Callosobruchus maculatus*

Carteret 1 On tree trunk Adults Undet. darkwinged fungus gnat

Cherokee 1 On plants in garden Adult Undet. mermithid nematode

Craven 1 In yard Larva Underwing moth, *Catocala* sp.

Durham 1 In borings Adult Vespid wasp, *Euodynerus* sp.

?Guilford 1 On clothes on line Adults Eastern flower thrips, *Frankliniella tritici*

Haywood 1 Under bark of dying white pine Larvae Undet. lonchaeid fly

Jackson 1 On Fraser fir Adults Undet. oribatid mite

Johnston 1 At lights Adults Skin beetle, *Trox suberosus*

Lee 1 At bleeding wound on oak Larva Ceratopogonid fly, prob. *Palpomyia* sp.

Lee 1 -- Adult House centipede, *Scutigera coleoptrata*

Surry 1 Around hog house Adult Sphinx moth, *Darapsa* sp.

During Week of June 6-12, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Man &amp; Animals</u>				
Caldwell	1	Biting people	Adults	Eastern flower thrips, <i>Frankliniella tritici</i>
New Hanover	1	Human	Adult	Mosquito, <i>Psorophora ciliata</i>
<u>Southern Field Crops</u>				
Jones	2	Tobacco	Adults; & larva	Spring rose beetle, <i>Strigoderma arboricola</i> ; and an armyworm, <i>Spodoptera</i> prob. <i>dolichos</i>
<u>Grains, Soybeans &amp; Forages</u>				
Beaufort	1	Corn	Injury	Prob. sugarcane beetle, prob. <i>Eutheola rugiceps</i>
Burke	1	Corn	Adults	Grass thrips, <i>Anaphothrips obscurus</i>
Harnett	1	Corn	Larva	Corn earworm, <i>Heliothis zea</i>
Pender	1	Corn	Mostly injury	Corn blotch leafminer, <i>Agromyza parvicornis</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Avery	1	Buckeye	Larvae	Uglynest caterpillar, <i>Archips "cerasivoranus"</i>
Avery	1	Mountain laurel	Larvae	Undet. leaf beetle
Avery	1	Norway spruce	--	Undet. aphid
Cabarrus	1	Black walnut	Galls	Undet. eriophyid mite
Carteret	1	Roses	All	Eastern flower thrips, <i>Frankliniella tritici</i>
Dare	1	Pittosporum	Nymphs	Undet. coccid scale
Duplin	1	Centipede grass	Adults	Twolined spittlebug, <i>Prosapia</i> sp.
Duplin	1	Rose buds	Adults	Eastern flower thrips, <i>Frankliniella tritici</i>
Granville	4	Post oak	--	Cynipid wasp, <i>Neuroterus</i> near <i>tantulus</i> ; undet. cynipid wasp; undet. aphid; and undet. stink bug
Granville	1	Trumpet creeper	Larvae	Undet. gracillariid leafminer moth
Guilford	1	Camellia sasangua	Egg masses	Coccid scale, prob. <i>Pulvinaria</i> sp.
Guilford	1	White oak	Nymphs	Coccid scale, prob. <i>Lecanium</i> sp.
Harnett	1	Boxwood	Old injury	Undet. spider mite
Hertford	2	Shasta daisy	All; and --	Eastern flower thrips, <i>Frankliniella tritici</i> ; and undet. aphid
Jackson	1	On locust tree	Adult	Periodical cicada, <i>Magicicada septendecim</i>
McDowell	1	Maple	Young larvae	Greenstriped mapleworm, <i>Dryocampa rubicunda</i>
McDowell	1	Roses	Adults	Eastern flower thrips, <i>Frankliniella tritici</i>
Pasquotank	1	White pine	?Old injury	Prob. pine bark aphid, prob. <i>Pineus strobi</i>
Pasquotank	1	Plum-yew	Old egg masses	Coccid scale, prob. <i>Pulvinaria</i> sp.



## Summary of Specimens Processed by Insect Clinic, NCU

Page Two

Week of June 6-12, 1974

Pitt	1	Azalea	Adults	Japanese weevil, <i>Pseudocneorhinus bifasciatus</i>
Polk	1	Juniper	Old injury	Undet. spider mite
Randolph	1	White oak	Galls	Cynipid wasps: <i>Acraspis</i> prob. <i>pezomachoides</i> , <i>Neuroterus</i> prob. <i>tantulus</i> , and undet. sp.
Rowan	1	Hickory	Old galls	Phylloxeran, <i>Phylloxera</i> sp.
Scotland	2	Post oak	Nymphs; and galls	Coccid scale, prob. <i>Lecanium</i> sp.; and Cynipid wasp, <i>Neuroterus</i> near <i>tantulus</i>
Wake	1	Hibiscus	Larva	Argid sawfly, <i>Atomacera decepta</i>
Wake	1	Milkweed	Adults	Leaf beetle, <i>Chrysochus auratus</i>
Wake	1	Petunia	Larva	Variiegated cutworm, <i>Peridroma saucia</i>
Watauga	1	Norway spruce	All	Undet. spider mite
<u>Fruit</u>				
Buncombe	1	Strawberry	Old injury	Undet. spider mite
Caswell	1	Strawberry	All	Undet. spider mite
Catawba	1	Apple	All	Undet. spider mite
Columbus	1	Strawberry	Adults	Dusky sap beetle, <i>Carpophilus lugubris</i> ; and a sap beetle, <i>Carpophilus freemani</i>
Duplin	1	In sticky traps	Adults	Blueberry maggot, <i>Rhagoletis mendax</i>
Iredell	1	Apple	Old injury	Undet. aphid
New Hanover	1	Blueberry	Adults	Leaffooted bug, <i>Leptoglossus phyllopus</i>
Pitt	1	Grape	Old galls	Undet. grape tomato gall
Wake	1	Pecan	Adult	Undet. Eumolpine leaf beetle
<u>Vegetables (Commercial &amp; Garden)</u>				
Camden	1	Cabbage	Adults	Onion thrips, <i>Thrips tabaci</i>
Guilford	2	Garden peas	Larvae	Corn earworm, <i>Heliothis zea</i> ; and prob. cowpea curculio, prob. <i>Chalcodermus aeneus</i>
Sampson	1	Cabbage	Larvae	Cabbage webworm, <i>Hellula rogatalis</i>
Sampson	1	Squash	Adults	Spring rose beetle, <i>Strigoderma arboricola</i>
Transylvania	1	Irish potato	Adults	Leaf beetle, <i>Plagiometrona clavata</i>
Wake	1	Cabbage	Larva	Imported cabbageworm, <i>Pieris rapae</i>
Wake	1	Tomato	All	Undet. spider mite
<u>Wood Destroying Insects</u>				
Buncombe	1	Dying white pine	Adults	Pine engraver, <i>Ips pini</i>
Rowan	1	In home	Alates	Black carpenter ant, <i>Camponotus pennsylvanicus</i>
Wake	1	Swarming from oak tree	Alates	Black carpenter ant, <i>Camponotus pennsylvanicus</i>

## Summary of Specimens Processed by Insect Clinic, NCSU

Page Three

Week of June 6-12, 1974

Household & Industrial Insects

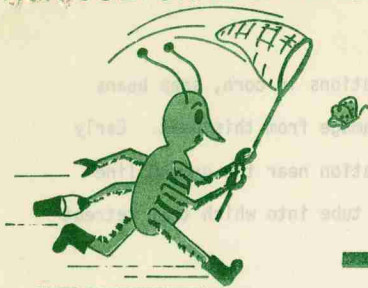
Lincoln	1	In home	Adults	Soldier fly, <i>Hermetia illucens</i>
Wake	1	Around & entering home	Adults	Soldier fly, <i>Hermetia illucens</i>
Wake	1	Throughout apartment	Adults	Confused flour beetle, <i>Tribolium confusum</i>

Miscellaneous & Accidental Household

Wake	1	In home	Adult	Flea beetle, <i>Disonycha</i> prob. <i>discoidea</i>
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Miscellaneous

Ashe	1	Aphids on Fraser fir	Larvae	Undet. syrphid fly
Brunswick	1	--	Adult	Filistatid spider, <i>Filistata hibernalis</i>
Cumberland	1	On cotton	Pupae	Undet. ladybird beetle
Cumberland	1	In lawn	Workers	Florida harvester ant, <i>Pogonomyrmex badius</i>
Duplin	2	In lawn	Adults	Lygaeid bug, <i>Geocoris</i> sp.; and undet. sowbug
Durham	1	On tomatoes	Pupa	Undet. ladybird beetle
Forsyth	1	On sidewalk after rain	Adult	Flatworm, <i>Bipalium kewense</i>
Guilford	1	On white oak	Pupae	Ladybird beetle, <i>Chilocorus</i> sp.
Robeson	1	Under barn shelter	Adult	Dobsonfly, <i>Chauliodes</i> sp.
Wake	1	On pavement	Adult	Flatworm, <i>Bipalium kewense</i>



*Entomology*

June 21, 1974

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

*T. N. H.*

RECEIVED  
 JUN 24 1974  
 ENTOMOLOGY DEPT.

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

SPECIAL NOTE:

BEET ARMYWORM (Spodoptera exigua) - NORTH CAROLINA - Young larvae, 3rd instar or less, have been observed feeding on terminals of cotton in the Southern Coastal Plain cotton counties of Scotland, Robeson and Hoke. This is early for the appearance of this pest in our state. These larvae feed on a wide variety of crops and the situation should be watched closely, because of the difficulty of controlling this pest. They are strongly attracted to pig weed and often move from this weed to the adjacent crop when the pig weed is consumed. (Gilbert, Farm Chemicals, Inc.; Hunt, Ext.)

CORN

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - NORTH CAROLINA - A stand reduction of 10 - 15% was observed in a Wake County corn field. Little damage from this insect has been reported to date in North Carolina. However, Alabama



and South Carolina entomologists report heavy infestations in corn, snap beans and peanuts. Dry conditions are most conducive to damage from this pest. Early detection of this pest is difficult and close observation near the ground line is necessary. They usually form an underground silk tube into which they retreat during the day. (Hunt, Ext.)

SOUTHERN CORN BILLBUG (Sphenophorus callosus) - NORTH CAROLINA - Billbug damage reports continue from some eastern Coastal Plain counties. Two acres were destroyed in Jones County and heavy replanting has been reported from scattered spots in Pamlico, Hyde and Tyrrell Counties. (Franck, Ext.; Hunt, Ext.)

#### COTTON

BOLL WEEVIL (Anthonomus grandis) - NORTH CAROLINA - Collections of overwintering boll weevil adults in Leggett sex lure traps are trailing off after record collections to date. Average collections in the Halifax, Northampton, Edgecombe County area were 4 - 6 times higher than collections in 1973. Catches in the Scotland County area were roughly 1.5 times the 1973 catches. Spot treatment for weevils feeding on the terminals and small squares have been applied in the Scotland Neck area of Halifax County. (See enclosed table for counts to date.)

#### FORAGE LEGUMES

LESSER CLOVER LEAF WEEVIL (Hypera nigrirostris) - NORTH CAROLINA - Adults were collected from red clover in North Chatham County. Leaf damage was readily apparent. (Falter, Ext.)

#### FEDERAL AND STATE PLANT PROTECTION PROGRAMS

GYPSY MOTH (Porthetria dispar) - NORTH CAROLINA - Approximately 5600 sex lure traps are currently being installed in North Carolina. Trap placements are concentrated around past collection sites and recreational areas with a heavy concentration (approximately 1600 traps) on the Outer Banks around Manteo and north to the Virginia line. (NCDA, USDA, APHIS)



AVERAGE BOLL WEEVIL TRAP CATCHES

Week Beginning	Northampton and Hertford	Scotland and Robeson	Johnston	Cumberland	Cleveland	Sampson
4-1	.5					
4-8	.4		.4			
4-15	1.2	.3	2.8			
4-22	.8	.9	2.5			
4-29	5.5	2.0	8.7			
5-6	6.5	.1	4.8	35.7	2.8	8.9
5-13	7.9	.1	7.0	54.2	2.1	40.1
5-20	18.3	-	50.4	48.3	9.7	27.6
5-27	34.4	3.1 <sup>1/</sup>	24.4	30.5	11.8	17.5
6-3	24.5	1.2	-	49.0	19.6	19.6
6-10	18.5	1.4	-	24.5	20.1	20.1
6-17	16.1					

<sup>1/</sup> Two week catch.

Bachelor, Dept. of Entomology; Gurkin, Ext.; Jernigan, Ext.; and Dameron, Ext.

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

During Week of June 13-19, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Man and Animals</u>				
Scotland	1	Man	Adult	American dog tick, <i>Dermacentor variabilis</i>
<u>Grain, Soybeans &amp; Forages</u>				
Hyde	1	Soybeans	Puparia	Seedcorn maggot, <i>Hylemya platura</i>
Macon	1	Silage corn	Larvae	Lesser cornstalk borer, <i>Elasmopalpus lignosellus</i>
Macon	1	Corn	Adult	Grass thrips, <i>Anaphothrips obscurus</i>
Rowan	1	Corn	Adults	Japanese beetle, <i>Popillia japonica</i>
Union	1	Corn	Adult	Thrips, <i>Frankliniella tenuicornis</i>
Wake	4	Corn	--	Billbug, <i>Sphenophorus callosus</i> ; Lesser cornstalk borer, <i>Elasmopalpus lignosellus</i> ; Grass thrips, <i>Anaphothrips obscurus</i> ; and tobacco thrips, <i>Frankliniella fusca</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Alamance	1	Elm	Larvae & pupae	Elm leaf beetle, <i>Pyrrhalta luteola</i>
Avery	1	Fraser fir	Injury	Prob. balsam twig aphid, prob. <i>Mindarus abietinus</i>
Bertie	1	Boxwood	Old injury	Boxwood leafminer, <i>Monarthropalpus buxi</i>
Bladen	1	Boxwood	?Old injury	Undet. spider mite
Bladen	1	St. Augustine grass	?All	Chinch bug, <i>Blissus</i> sp.
Cabarrus	1	Willow oak	Mostly old injury	Undet. spider mite
Chatham	1	Camellia	Crawlers & nymphs	Prob. camellia scale, prob. <i>Lepidosaphes camelliae</i>
Chatham	1	Willow oak	Injury	Undet. prob. bark beetle
Forsyth	1	Beech	Larva	Undet. elaphidionine longhorned beetle
Guilford	1	Impatiens	All	Undet. spider mite
Halifax	2	Boxwood	Old injury	Boxwood leafminer, <i>Monarthropalpus buxi</i> ; and undet. spider mite
Johnston	1	Begonia	All	Undet. mite
Mecklenburg	1	Boxwood	Young larvae	Boxwood leafminer, <i>Monarthropalpus buxi</i>
Montgomery	1	Japanese holly	All	Undet. mealybug
Person	1	Boxwood	Old injury	Boxwood leafminer, <i>Monarthropalpus buxi</i>
Transylvania	1	Alberta spruce	Mostly old injury	Undet. spider mite
Wake	1	Azalea	All	Undet. spider mite
Wake	3	American elm	--	Elm leaf beetle, <i>Pyrrhalta luteola</i> ; undet. leafhopper; and undet. spider mite
Wake	2	Fuchsia	All	Undet. spider mite; and undet. whitefly
Wake	2	Gladiolus	All	Gladiolus thrips, <i>Taeniothrips simplex</i> ; and eastern flower thrips, <i>Frankliniella tritici</i>
Wake	1	Silver maple	Old galls	Maple bladdergall mite, <i>Vasates quadripes</i>
Wake	1	Sunflower	Larvae	Undet. agromyzid leafminer
Wake	1	Pussy willow	All	Undet. eriophyid mite
Wake	1	Houseplant	All	Undet. spider mite
Wayne	1	Azalea	Adults	Japanese weevil, <i>Pseudooneorhinus bifasciatus</i>

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

Page Two

Week of June 13-19, 1974

Wilson	2	Loblolly pine	All; and old injury	Thrips, prob. <i>Gnophothrips fuscus</i> ; and undet. aphid
Yadkin	1	White oak	Gall scars	Cynipid wasp, <i>Neuroterus</i> prob. <i>tantulus</i>

Fruit

Edgecombe or Nash	1	Apple, grape & peach	Adults	Japanese beetle, <i>Popillia japonica</i>
Wake	1	Persimmon	Pupae	Persimmon borer, <i>Sannina uroceriformis</i>

Vegetables (Commercial & Garden)

Beaufort	1	Snap beans	All	Undet. spider mite
Beaufort	1	Bell pepper	Larvae	European corn borer, <i>Ostrinia nubilalis</i>
Jones	1	Snap beans	All	Undet. spider mite
Northampton	1	Irish potato	Larvae	European corn borer, <i>Ostrinia nubilalis</i>
Sampson	1	Tomato	Larvae	Colorado potato beetle, <i>Leptinotarsa decemlineata</i>

Wood Destroying Insects

Cumberland	1	Furniture wood from Korea	Adults	Powderpost beetle, <i>Minthaea rugicollis</i>
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Household & Industrial

Guilford	1	In home	All	Booklice, <i>Liposcelis</i> sp.
Wake	1	Apartment	All	Odorouse house ant, <i>Tapinoma sessile</i>
Wayne	1	Entering home	Adults	Soldier fly, <i>Hermetia illucens</i>

Miscellaneous & Accidental Household

?Guilford	1	In veneer plant	Adult	Ground beetle, <i>Scarites</i> sp.
Wake	1	In storage building	All	Theridiid spider, <i>Theridion tepidariorum</i>

Miscellaneous

Alamance	1	On white oak	Adult	Click beetle, <i>Melanotus</i> sp.
Alamance	1	In lawns	Adults	Undet. eulophid wasp
Avery	1	Attacking aphid on Fraser fir	Larvae	Undet. syrphid fly
Caldwell	1	Green beans	Adults	Rove beetle, <i>Staphylinus</i> sp.
Catawba	1	Under ground cover	Adults	Greenhouse millipede, <i>Oxidus gracilis</i>
Davidson	1	In old borings	Adult & brood	Undet. sphecid wasp
McDowell	1	--	Adults	Booklice, <i>Liposcelis</i> sp.
Pitt	1	Flying around home	Adults	Soldier fly, <i>Hermetia illucens</i>
Polk	1	On rock walls	Nymphs & adults	Barklice, <i>Psocus trifasciatus</i>
Wake	1	On vegetables	Adult	Ladybird beetle, <i>Coleomegilla</i> sp.
Wake	1	In soil	Pupae	Citheroniid wasp, <i>Anisota</i> sp.
Wake	1	Along steps	Juvenile	Prob. black widow, <i>Latrodectus</i> prob. <i>mactans</i>



*Dr. Knight*  
**entomology**  
 RECEIVED

JUL 1 1974

ENTOMOLOGY DEPT.  
 June 28, 1974

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

This report is compiled by: Thomas N. Hunt, Survey Entomologist, Raleigh, No. Carolina

TOBACCO

TOBACCO BUD WORMS (Heliothis virescens) - NORTH CAROLINA - Pest management surveys in the Wayne Co. area (June 20) indicate a low percentage of the 49 fields surveyed at the threshold level, which is 10% of the plants with a larva. However, spot checks and reports during week of June 20 from the Surry, Stokes, Rockingham County area (Old Belt) indicate higher than average infestation levels. Some fields observed in Rockingham Co. had 50% infestation levels. (Lamm, Ext., Ellis, Ext.)

FOREST AND SHADE TREES

PERIODIC CICADA (Magicicada septendecim) - NORTH CAROLINA - Heavy flagging of oak twigs in Old Fort, McDowell Co. and Asheville, Buncombe Co.. Observations in the area revealed that heaviest damage occurred in the Oteen section of Asheville where shade trees (usually oaks) had 60-90% of the terminal twigs injured, depending upon tree size. The most severely infested area in the Oteen section was roughly 1 mile by 1 mile in size with spot infestations scattered north and south of Asheville. (Bowers, APHIS, Hunt, Ext.)





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

During Week of June 20-26, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Man &amp; Animal</u>				
Bertie	1	Bit child	Nymph	Wheel bug, <i>Arius cristatus</i>
<u>Grain, Soybeans &amp; Forages</u>				
Brunswick	1	Soybeans	Nymphs & adults	Lygaeid bug, <i>Nysius raphanus</i>
Graham	1	Corn	Adults	Tarnished plant bug, <i>Lygus lineolaris</i>
Jones	1	Corn	Larvae & adult	Billbug, <i>Sphenophorus callosus</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Alamance	1	Cotoneaster	All	Undet. spider mite
Bladen	1	Zoysia grass	Nymphs & adults	Burrower bug, <i>Sehirus cinctus</i>
Burke	1	White pine	Adults	Bark beetle, <i>Pityogenes</i> sp.
Duplin	2	Swamp chestnut oak	Adults	Bark beetle, <i>Pseudopityophthorus</i> sp.; and a weevil, <i>Pandeleteius</i> sp.
Haywood	1	Red spruce	Galls	Prob. spruce cone gall, prob. <i>Chermes abietis</i>
Iredell	1	Juniper	Old injury	Undet. spider mite
Moore	1	Tree	Larva	Elm sawfly, <i>Cimbex americana</i>
Orange	1	Red oak	Young larva	Undet. limacodid moth
Stanly	1	Southern red oak	Old injury	Undet. aphid
Wake	1	Boxwood	Young larvae	Boxwood leafminer, <i>Monarthropalpus burti</i>
Wake	1	Juniper	Old injury	Undet. spider mite
Wake	1	White oak	Pupal skins	Carpenterworms, <i>Prionoxystus robiniae</i>
Wake	1	Pyracantha	Adults	Hawthorn lace bug, <i>Corythucha cydoniae</i>
Wake	1	Roses, boring stems	Old injury, pupae	Undet. sphecid wasp
Wake	1	Roses	All	Undet. spider mite
Wake	1	Tuberose	All	Undet. spider mite
<u>Fruit</u>				
Rutherford	1	Pecan	Galls	Phylloxeran, <i>Phylloxera</i> sp.
<u>Household &amp; Industrial</u>				
Durham	1	In apartment	Alates	Pavement ant, <i>Tetramorium caespitum</i>
Wake	1	Stored peanuts	Larvae	Indian meal moth, <i>Plodia interpunctella</i>
Wake	1	Soybean meal	Adults	Cigarette beetle, <i>Lasioderma serricorne</i>
Wilson	1	In cereal, flour, meal	Adults	Cigarette beetle, <i>Lasioderma serricorne</i>



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

Page Two

Week of June 20-26, 1974

Vegetables (Commercial & Garden)

Jones	1	Butter beans	Young larvae	Limabean vine borer, <i>Monoptilota pergratialis</i>
Perquimans	1	?Lima beans	--	Undet. aphid
Perquimans	2	Squash	Young larva; and adults	Squash vine borer, <i>Melittia cucurbitae</i> ; and scarab beetle, <i>Ataenius</i> sp.
Pitt	1	Collards	Adults	Diamondback moth, <i>Plutella xylostella</i>
Wake	1	Asparagus	Adults	Asparagus beetle, <i>Crioceris asparagi</i>
Wake	1	Lima & string beans	All	Undet. spider mite
Wayne	1	Lima beans	Larvae	Limabean vine borer, <i>Monoptilota pergratialis</i>
Yancey	1	Tomato	Injury	Prob. stalk borer, <i>Papaipema</i> prob. <i>nebris</i>

Miscellaneous & Accidental Household

Guilford	1	Entering apartment	Adults	Ground beetle, <i>Anisotarsus</i> sp.
Scotland	5	In laboratory building	Adults	Undet. humpbacked fly; black scavenger fly; darkwinged fungus gnat; frit fly; and leafhopper
Yadkin	1	Entering home	Adults	Greenhouse millipede, <i>Oridus gracilis</i>

Miscellaneous

Cumberland	1	On lawn	Worker	Carpenter ant, <i>Camponotus</i> sp.
Duplin	1	On dirt road	Larva	Undet. sphinx moth
Orange	1	Under tree	Nymph	Wheel bug, <i>Ariulus cristatus</i>
Rowan	1	Swarming	Alate	Pavement ant, <i>Tetramorium caespitum</i>
Rowan	1	On tomatoes	Adults	Undet. green lacewing
Sampson	1	Along shore	Adults	Midge, <i>Glyptotendipes paripes</i>
Wake	1	On begonia	Adults	Bdellid mite, <i>Bdellodes longirostris</i>
Wake	1	On sidewalk	Dead adult	Carrion beetle, <i>Silpha americana</i>
Wake	1	Attacking spider mites on tuberose	Larvae & pupae	Thrips, <i>Scolothrips pallidus</i>

RECEIVED

10

COOPERATIVE AGREEMENT  
Weekly Report \*

JUL 8 1974

State North Carolina ENTOMOLOGY DEPT

Date July 5, 1974

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 June 29-July 5, 1974  
was not submitted because annual leave.

*TNH*  
Thomas N. Hunt  
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.



# entomology

July 12, 1974

TO: County Extension Agents and Other Interested Persons

FROM: Thomas N. Hunt, Survey Entomologist JNH

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

SPECIAL NOTE:

TWOSPOTTED SPIDER MITE (*Tetranychus urticae*) - NORTH CAROLINA - Observations in Hertford, Chowan, Northampton, Halifax, Edgecombe, Martin, Washington, and Bertie Counties revealed a wide spread infestation of twospotted spider mites (all stages of development) in field corn. Of approximately 100 fields entered in the area 4 fields contained an economically significant infestation. One field near Murfreesboro has suffered a yield reduction on about 5 of 25 acres. Mite clusters on ears and blades were observed in this field.

Twenty-five other fields observed in the area had varying infestations from low, detectable levels to several hundred per blade. A consistent pattern emerged in the survey. All cases with easily detectable infestations were on light soils, drought stressed ("fired-up" blades) and following peanuts in 1973.





Peanuts in this area must be watched very closely since migration from corn to adjacent peanuts is a definite threat. (Rogister, Ext.; Van Duyn, Ext.; Hunt, Ext.)

#### SOYBEANS

GRAPE COLASPIS (Colaspis brunnea) - NORTH CAROLINA - Larval damage was observed in 2 Washington County soybean fields totaling 30 acres. Spots to 1/4 acre in size were observed containing stunted plants. Tap root and feeder root feeding damage was observed, eliminating nematodes as the primary damaging agent. Pupation and adult emergence has occurred, and sweep net counts averaged 3 adults per sweep. (Van Duyn, Ext.; Hunt, Ext.)

SOYBEAN STEMBORER (Decetes texanus) - NORTH CAROLINA - Adults are emerging in Washington and Hyde Counties. First observation this year was June 17, approximately a month earlier than previous years. Sweeps in one field revealed about 5 adults per 20 sweeps. (Van Duyn, Ext.; Hunt, Ext.)

THREE-CORNERED ALFALFA HOPPER (Spissistilus festinus) - NORTH CAROLINA - Nymphs and adults were observed in a Jones County soybean field. Counts revealed 2% lodging of stems. (Falter, Ext.)

#### COTTON

BOLLWORM (Heliothis zea and Heliothis virescens) - NORTH CAROLINA - Bollworm activity in Scotland County scouting program fields is under control in most cases. However, the bollworm moth flight from corn and subsequent egg laying on cotton is expected in the area in 2 weeks. (Bradley, Dept. of Ent.)

#### FRUITS

EUROPEAN RED MITES (Panonychus ulmi) - NORTH CAROLINA - Mite infestations are at economic injury levels in some western North Carolina commercial apple orchards.

Counts of 25-50 per leaf were observed this week in 2 Wilkes County orchards. (Rock, Dept. of Ent.)

MISCELLANEOUS

GRAPELEAF SKELETONIZER (*Harrisina americana*) - NORTH CAROLINA - Observations in the northeastern Coastal Plain revealed extensive damage to wild grapes as far west as Rocky Mount, Nash County, and as far south as Greenville, Pitt County. In Northampton, Hertford, and Halifax Counties, almost every grape vine observed while traveling US 158 and 301 was severely damaged.

This species has three broods per year and will attack tame grapes. (Hunt, Ext.; Van Duyn, Ext.)

County	Site	Host	Stage	Remarks
Wilkes	Rock	Wild grape	25-50 per leaf	Observed this week
Rock	Dept. of Ent.	Wild grape	25-50 per leaf	Observed this week
Nash	Rocky Mount	Wild grape	Extensive damage	Observed
Pitt	Greenville	Wild grape	Extensive damage	Observed
Pitt	Greenville	Wild grape	Extensive damage	Observed
Northampton	US 158	Wild grape	Severely damaged	Observed
Hertford	US 158	Wild grape	Severely damaged	Observed
Halifax	US 301	Wild grape	Severely damaged	Observed

Original copy of June 11-1973 J. Hunt

REPRODUCED BY PERMISSION OF THE ARIZONA STATE ENTOMOLOGICAL SOCIETY

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

During Week of June 27-July 3, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Grain, Soybeans &amp; Forages</u>				
Ashe	1	Corn	Larva	Armyworm, <i>Pseudaletia unipuncta</i>
Chatham	5	Corn	--	Black cutworm, <i>Agrotis ipsilon</i> ; corn flea beetle, <i>Chaetocnema pulicaria</i> ; tobacco thrips, <i>Frankliniella fusca</i> ; grass thrips, <i>Anaphothrips obscurus</i> ; and a thrips, <i>Frankliniella</i> sp.
Columbus	1	Corn	Larvae	European corn borer, <i>Ostrinia nubilalis</i>
Halifax	1	Soybeans	Larva	Sulfur butterfly, <i>Colias</i> sp.
Jones	1	Soybeans	Nymphs	Threecornered alfalfa hopper, <i>Spissistilus festinus</i>
Transylvania	1	Corn	Adults	Asiatic garden beetle, <i>Maladera castanea</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Avery	1	Black cherry	Galls	Wild cherry pouch gall, <i>Eriophyes padi</i>
Buncombe	1	Maple	?All	Woolly alder aphid, <i>Prociphilus tessellatus</i>
Buncombe	1	Weeping willow	Larvae & adults	Imported willow leaf beetle, <i>Plagioderma versicolora</i>
Caldwell	1	Silver maple	All	Undet. gall mite
Chatham	3	Wax-myrtle	Larvae; adult; & adult	Olethreutid moth, <i>Strepsicrates</i> sp.; treehopper, <i>Microtalis</i> sp.; and undet. weevil
Craven	1	Pfizer juniper	Old injury	Undet. spider mite
Cumberland	1	Bermuda grass	All	Undet. gall mite
Cumberland	1	Black locust	Adults	Leaf beetle, <i>Chalepus</i> sp.
Dare	1	Oak	Young larvae	Oakworm, <i>Anisota</i> sp.
Guilford	1	Azalea	Injury	Azalea lace bug, <i>Stephanitis pyrioides</i>
Guilford	1	White pine	Injury	Prob. white pine aphid, prob. <i>Cinara strobi</i>
Haywood	1	Scot's pine	All	Undet. gall mite
Hyde	1	Oak	Pupa	Undet. giant silkworm moth
Lee	1	Chrysanthemum	All	Undet. spider mite
Lincoln	1	Silver maple	Old galls	Maple bladdergall mite, <i>Vasates quadripes</i>
Martin	1	Norfolk island-pine	Old injury	Undet. spider mite
Mecklenburg	1	Boxwood	Young larvae	Boxwood leafminer, <i>Monarthropalpus buxi</i>
Onslow	1	Blackjack oak	Galls	Cynipid wasp, <i>Callirhytis modesta</i>
Orange	1	Elm	Adult	Larger elm leaf beetle, <i>Monocesta coryli</i>

## Summary of Specimens Processed By Insect Clinic, NCSU

Page Two

Week of June 27 - July 3, 1974

Scotland	3	Willow oak	All; old injury; adults	Undet. gall mite; undet. spider mite; and eastern flower thrips, <i>Frankliniella tritici</i>
Wake	1	Ailanthus	Larvae	Ailanthus webworm, <i>Atteva punctella</i>
Wake	2	Asparagus-fern	All; & old injury	Undet. spider mite; and undet. aphid
Wake	4	River birch	--	Aphid, <i>Calaphis betulella</i> ; undet. gall mite; undet. gracillariid moth; and undet. leaf beetle
Wake	1	Juniper	Old injury	Undet. spider mite
Wake	1	Roses	Old injury	Undet. spider mite
Wilson	1	Pine	Larvae	Redheaded pine sawfly, <i>Neodiprion lecontei</i>

Fruit

Duplin	1	Grape	Larvae	Grape leaf skeletonizer, <i>Harrisina americana</i>
Orange	1	Apple	Larva	Unicorn caterpillar, <i>Schizura unicornis</i>
Pitt	1	Plum	Old injury	Sawfly, <i>Caliroa</i> sp.
Wake	1	Grape	Larvae	Grape leaf folder, <i>Desmia funeralis</i>
Wake	1	Cherry or plum	Larvae & adults	Flea beetle, <i>Altica</i> sp.
Virginia state	1	Grapes	Adults	Japanese beetle, <i>Popillia japonica</i>

Vegetables (Commercial & Garden)

Currituck	1	Tomato	Larva	Tobacco hornworm, <i>Manduca sexta</i>
Halifax	2	Butter beans	All; and larva	Undet. spider mite; and undet. geometrid moth
Halifax	1	Lima beans	All	Undet. spider mite
Halifax	1	Squash	Larvae	Squash vine borer, <i>Melittia cucurbitae</i>
Orange	1	Tomato	?All	Undet. aphid
Rowan	1	Tomato	Larva	Wireworm, <i>Melanotus</i> sp.
?Sampson	1	Butter beans	Larvae	Limbean vine borer, <i>Monoptilota pergratialis</i>
Wake	1	Butter beans	Larva	Undet. lycanid butterfly
Wake	1	Pepper	Nymph	Undet. treehopper
Yadkin	1	Irish potato	Pupae	European corn borer, <i>Ostrinia nubilalis</i>

Wood Destroying Insects

Orange	1	Pine log	Larva	Undet. longhorned beetle
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Household & Industrial Insects

Harnett	1	In house	Adults	Moth fly, <i>Telmatoecopus albipunctatus</i>
Randolph	1	In home	Adults	Lesser mealworm, <i>Alphitobius diaperinus</i>
Wake	1	In home	Alate	Ant, <i>Nylanderia</i> sp.



Summary of Specimens Processed By Insect Clinic, NCSU

Page Three

Week of June 27 - July 3, 1974

Miscellaneous & Accidental Household

Guilford	Several	In home	---
		supposedly	
		biting person	
Robeson	1	Entering residence	Adults
Wilson	1	Entering homes	Adults

Various insects

Rustic borer, *Xylotrechus colonus*

Greenhouse millipede, *Oxidus gracilis*

Miscellaneous

Caldwell	1	On silver maple	Dead adults
Guilford	1	On door frame	Adult
Lenoir	1	In lawn	Workers
McDowell	1	Around homes	Adults
Rockingham	1	In corn whorl	Adult
Wake	1	Around door of home	Adult

Cluster fly, *Pollenia rudis*

Crinkled flannel moth, *Megalopyge crispata*

Ant, *Formica integra* group

Greenhouse millipede, *Oxidus gracilis*

Ground beetle, *Leptotrachelus* sp.

Broadnecked root borer, *Prionus laticollis*

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1974

1974

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

During Week of July 4-10, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Southern Field Crops</u>				
Bladen	1	Peanuts	All	Tobacco thrips, <i>Frankiniella fusca</i>
<u>Grain, Soybeans &amp; Forages</u>				
Buncombe	2	Corn	Adults & larvae	Tobacco thrips, <i>Frankiniella fusca</i> ; and a rootworm, <i>Diabrotica</i> sp.
Columbus	2	Corn	Larvae	Billbugs, <i>Sphenophorus</i> sp. (2 separate samples)
Herrford	1	Corn	All	Undet. spider mite
Wake	1	Clover & grass pasture	Young larvae	Granulate cutworm, <i>Feltia subterranea</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Beaufort	1	Amer. cherry-laurel, green-briar, privet	Adults	Japanese weevil, <i>Pseudocneorhinus bifasciatus</i>
Buncombe	1	Evergreen	Larvae	Undet. moth
Chowan	1	Box elder	All	Undet. gall mite
Craven	1	Azalea	Adults	Japanese weevil, <i>Pseudocneorhinus bifasciatus</i>
Dare	2	Morninglory	Adults	Argus tortoise beetle, <i>Chelymorpha cassidea</i> ; and a tortoise beetle, <i>Deloyala</i>
Duplin	1	Weeds	Adults	Leaf beetle, <i>Chrysochus auratus</i>
Guilford	1	Deodar cedar	Adults	Bark beetle, <i>Pityophthorus</i> sp.
Haywood	1	Scot's pine	Nymphs & adults	Undet. Diaspidid scale
Haywood	1	Scot's white pine	All	Pine bark aphid, <i>Pineus strobi</i>
Hertford	1	Annual flowers & azalea	Adults	Japanese weevil, <i>Pseudocneorhinus bifasciatus</i>
Johnston	1	Dogwood	Larvae	Prob. dogwood twig borer, <i>Oberea</i> prob. <i>tripunctata</i>
Onslow	1	White pine	Adults & eggs	Pine bark aphid, <i>Pineus strobi</i>
Wake	1	Juniper	-	Undet. Diaspidid scale
Wake	1	Sweet basil, sweet marjoram, oregano	All	Undet. spider mite
Wake	1	Sweet marjoram	Young larva	Variegated cutworm, <i>Peridroma saucia</i>
Wake	1	Red maple	All	Undet. spider mite
Wake	1	Post oak	Larvae to adults in galls	Cynipid wasp, <i>Andricus petiolicola</i>
Wake	2	Loblolly pine	-	Southern pine beetle, <i>Dendroctonus frontalis</i> ; and a bark beetle, <i>Gnathotrichus materiarius</i>

## Summary of Specimens Processed by Insect Clinic, NCSU

Page Two

Week of July 4-10, 1974

Wake	1	Shortleaved pine	Larva	Pyralid moth, <i>Dioryctria amatella</i>
<u>Fruit</u>				
Duplin	1	Grape	?All	Undet. aphid
<u>Vegetables (Commercial &amp; Garden)</u>				
Duplin	1	Collards	Pupae & adults	Diamondback moth, <i>Plutella xylostella</i>
Polk	1	Beans	Adults	Cowpea curculio, <i>Chalcodermus aeneus</i>
Sampson	1	Pepper	Larva	Prob. yellowstriped armyworm, <i>Spodoptera</i> prob. <i>ornithogalli</i>
Wake	1	Snap beans	All	Undet. spider mite
Wake	1	Okra & field peas	All	Undet. aphid
Wake	3	Tomatoes	All	Undet. spider mites (3 separate samples)
Wake	1	Tomato	All	Undet. whitefly
Watauga	1	Snap beans	All	Undet. spider mite
Wilson	1	Butterbeans	Larvae	Limabean vine borer, <i>Monoptilota pergratialis</i>
Wilson	1	Squash	All	Undet. whitefly
<u>Wood Destroying Insects</u>				
Burke	1	In home	Queen	Black carpenter ant, <i>Camponotus pennsylvanicus</i>
Iredell	1	In new home	Adults	Pine sawyer, <i>Monochamus carolinensis</i>
<u>Household &amp; Industrial Insects</u>				
Richmond	1	On floor in home	Larvae	Blow fly, <i>Phaenicia</i> prob. <i>pallescens</i>
Wake	2	In home	Adults	Merchant grain beetle, <i>Oryzaephilus mercator</i> ; and a carpet beetle, <i>Anthrenus coloratus</i>
Wake	1	In kitchen sink	Alates	Ant, <i>Pheidole</i> sp.
<u>Miscellaneous &amp; Accidental Household</u>				
Wake	1	In home	Adults	Bark beetle, <i>Xyleborinus saxeseni</i>
<u>Miscellaneous</u>				
Graham	1	Among corn roots	Larvae	Undet. prob. darkwinged fungus gnat
Onslow	1	Flying near ground	Adults	Sphecid wasp, <i>Stictia carolina</i>
Polk	1	On patio	Adult	Undet. horsehair worm
Rowan	1	In yard	Adult	Flatworm, <i>Bipalium kewense</i>
Transylvania	1	On mimosa	Larva	Undet. green lacewing



*Knight*  
*entomology*

July 19, 1974

TO: County Extension Agents and Other Interested Persons

JUL 22 1974

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

ENTOMOLOGY DEPT.

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

TWOSPOTTED SPIDER MITE (Tetranychus urticae) - NORTH CAROLINA - Dry, hot weather in the Northeastern Coastal Plain has been conducive to the build up of spider mites on corn. Economic injury has been observed in 35 fields (approximately 1,000 ac.) in northern Chowan County (30 fields), western Hertford County (3 fields), and eastern Northampton County (2 fields). However, populations exist in approximately 50% of the 150 fields examined in the area. All corn observed with easily detectable infestations were on light soils, drought-stressed and following peanuts in 1973. Migration from "fire up" corn is occurring in Chowan County with economic injury levels occurring on melons, sweet potatoes, and peanuts. This mite will attack all agricultural crops, and any crop adjacent to an infested field should be watched closely. (Hunt, Ext.; Van Duyn, Ext.)

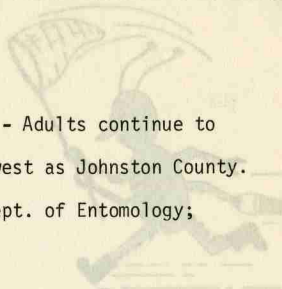




SOYBEAN

SOYBEAN STEM BORER (Dectes texanus) - NORTH CAROLINA - Adults continue to emerge across the Coastal Plain with reports from as far west as Johnston County. The adults are strongly attracted to ragweeds. (Dietz, Dept. of Entomology; Hunt, Ext.)

bp/340



ENTOMOLOGY DEPT.  
JUL 22 1974  
July 19, 1974  
County Extension Agents and Other Interested Persons  
FROM: Thomas H. Hunt, Survey Entomologist  
SUBJECT: Insect Survey Report  
NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION REPORT  
This report is compiled by: Thomas H. Hunt, Survey Entomologist  
Raleigh, North Carolina  
CORN  
THROTTLED SPINER MITE (Tetranychus urticae) - NORTH CAROLINA - Dry, hot weather in the Northeastern Coastal Plain has been conducive to the build up of spider mites on corn. Economic injury has been observed in 25 fields (approximately 1,000 ac.) in northern Chowan County (30 fields), western Hertford County (3 fields), and eastern Northampton County (2 fields). However, populations exist in approximately 50% of the 100 fields examined in the area. All corn observed with easily detectable infestations were on light soils, drought-stressed and followed peanuts in 1973. Migration from "fire up" corn is occurring in Chowan County with economic injury levels occurring on melons, sweet potatoes, and peanuts. This mite will attack all agricultural crops, and any crop adjacent to an infested field should be watched closely. (Hunt, Ext. - New Dawn, Ext.)



COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS NORTH CAROLINA STATE UNIVERSITY  
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## SUMMARY OF SPECIMENS PROCESSED BY INSECT CLINIC, N.C.S.U.

During Week of July 11-17, 1974

County	# of Collected Specimens	Host(s)	Stage(s)	Determination
<u>Grain, Soybeans &amp; Forages</u>				
Columbus	1	Corn	Larvae	Billbug, <i>Sphenophorus</i> sp.
Duplin	2	Corn	Larvae	European corn borer, <i>Ostrinia nubilalis</i> ; and lesser cornstalk borer, <i>Elasmopalpus lignosellus</i>
Forsyth	1	Corn	Adults	Corn sap beetle, <i>Carpophilus lugubris</i>
Johnston	1	Corn	Larvae	Billbug, <i>Sphenophorus</i> sp.
Pasquotank	1	Soybeans	Larvae & pupae	Thrips, <i>Sericothrips variabilis</i>
--	1	Vetch	Adults	Vetch bruchid, <i>Bruchus brachialis</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Bladen	1	Boxwood	Adults	Flatid plant hopper, <i>Metcalfa pruinosa</i>
Buncombe	2	Rhododendron	Adults; and injury	Greenhouse thrips, <i>Heliothrips haemorrhoidalis</i> ; and flea beetle, prob. <i>Altica</i> sp.
Columbus	1	Maple	Adult	Rosy maple moth, <i>Dryocampa rubicunda</i>
Currituck	1	Catalpa	Larva	Catalpa sphinx, <i>Ceratonia catalpae</i>
Dare	1	Sea ox-eye	Puparia	Tephritid fly, <i>Paracantha forficula</i>
Forsyth	1	Red maple	Larvae	Greenstriped mapleworm, <i>Dryocampa rubicunda</i>
Guilford	1	Beech	Old injury	Undet. aphid
Halifax	1	Boxwood	Old injury	Undet. spider mite
Hoke	1	Flowering plum	Larvae	Sawfly, <i>Caliroa</i> sp.
Lenoir	2	Azalea	Adults	Fuller rose beetle, <i>Pantomorus cervinus</i> ; and Japanese weevil, <i>Pseudocneorhinus bifasciatus</i>
Orange	2	Maple	Larvae	Greenstriped mapleworm, <i>Dryocampa rubicunda</i> ; and a Noctuid moth, prob. <i>Parallelia biestriaris</i>
Wake	1	Beech & chrysanthemum	Workers	Termite, <i>Reticulitermes</i> sp.
Wake	1	Dracaena	All	Undet. spider mite
Wake	1	Chinese elm	Larvae	Elm leaf beetle, <i>Pyrrhalta luteola</i>
Wake	1	Marigold	All	Undet. spider mite
<u>Fruit</u>				
Cleveland	1	Bunch grape	Larvae	Prob. grape root borer, <i>Vitacea</i> prob. <i>polistiformis</i>
Halifax	1	Wild grape	Larvae	Grapeleaf skeletonizer, <i>Harrisina americana</i>
Hoke	1	Crabapple	Nymph	Stink bug, <i>Brochymena</i> sp.
Orange	1	Peach	Larvae	Oriental fruit moth, <i>Grapholitha molesta</i>
Wake	1	Peach	Workers	Termite, <i>Reticulitermes</i> sp.

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

Page Two

Week of July 11-17, 1974

Vegetables

Currituck	1	Squash	Injury	Squash vine borer, <i>Melittia cucurbitae</i>
Montgomery	1	Cantaloupe, squash and watermelon	Adults	Greenhouse millipede, <i>Oridus gracilis</i>
Pender	1	Lima beans	Injury	Undet. bug

Vegetables (Commercial & Garden)

Sampson	1	Cabbage	Adults	Japanese weevil, <i>Pseudocnecorhinus bifasciatus</i>
Wake	2	Tomato	All	Undet. spider mites (2 separate samples)
Wake	1	Tomato	Nymphs	Leaffooted bug, <i>Leptoglossus phyllopus</i>
South Carolina	1	Tomato	Larvae	Agromyzid leafminer, <i>Liriomyza prob. sativae</i>

Wood Destroying Insects

Avery	1	In cabin	Alate	Black carpenter ant, <i>Camponotus pennsylvanicus</i>
Burke	1	Dead juniper	Larvae to adults	Bark beetle, <i>Phloeosinus</i> sp.
Mecklenburg	1	In building	Alates	Termite, <i>Incisitermes syderi</i>
Rowan	1	Pine	Adults	Platypodid beetle, <i>Platypus flavicornis</i>
Wake	2	Dying pine	Adults	Weevil, <i>Cossonus corticola</i> ; and bark beetle, <i>Crypturgus</i> sp.

Household & Industrial

Wake	2	In home	Adults	Red flour beetle, <i>Tribolium castaneum</i> (2 separate samples)
Wake	1	In food processing area	Larva	Hide beetle, <i>Dermestes maculatus</i>
South Carolina	1	Kitchen cabinets	All	Undet. acarid mites

Miscellaneous & Accidental Household

Mecklenburg	1	In home	Nymph	Issid planthopper, <i>Acanalonia conica</i>
Wake	1	In home	Larva	Ground beetle, <i>Galeritula</i> sp.

Miscellaneous

Beaufort	1	--	Adult	Click beetle, <i>Conoderus lividus</i>
Buncombe	1	On lawn	Chrysalis	Swallowtail butterfly, <i>Papilio</i> sp.
Edgecombe	1	On gate	Adult	Eastern Hercules beetle, <i>Dynastes tityus</i>
Edgecombe	1	On lawn	Adult	Oakworm, <i>Anisota</i> sp.
Halifax	1	--	Adults	Red flour beetle, <i>Tribolium castaneum</i>
Haywood	1	On maple trunk	Nymphs & adults	Barklice, <i>Psocus venosus</i>
Haywood	1	On walnut trunk	Nymphs & adults	Barklice, <i>Psocus venosus</i>
Henderson	1	In yard	Adults	Carpenterworm, <i>Prionoxystus robiniae</i>
Montgomery	1	On ground	Adult	Velvet ant, <i>Dasymutilla occidentalis</i>
Onslow	1	--	Adult	Io moth, <i>Automeris io</i>
Wake	1	Around house	Adults	Spiny oakworm, <i>Anisota stigma</i>
Wake	1	On asparagus	Adult	Lycid beetle, <i>Calopteron reticulatum</i>
Wake	3	On birthwort flowers	Adults	Chloropid flies: <i>Contosciarella flavescens</i> , <i>Ocella parva</i> , and <i>Ocella trigramma</i>
W...	1	Almond h...	Adult	M...

JUL 29 1974



*Knight*  
ENTOMOLOGY DEPT

*entomology*

July 26, 1974

TO: County 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 is compiled by: Thomas N. Hunt, Survey Entomologist

*M*

Raleigh, North Carolina

SPECIAL NOTE:

TWOSPOTTED SPIDER MITE (Tetranychus urticae) - NORTH CAROLINA - Infestations continue to expand in Northampton, Hertford, Gates, and Chowan Counties, particularly in Chowan County. Observations in Chowan County revealed economic infestations occurring on a wide variety of crops. Damage was observed on sweet potatoes, several varieties of melons, peanuts, soybeans and both sweet and field corn. Spot checks along N. C. Hwy. 32 in Chowan County revealed that approximately 40% of the fields, regardless of the crop, had spider mite damage. Spots observed ranged in size from 1/8 ac. to 10 ac. An estimate of acres treated in this area to date is impossible but would certainly number in the thousands. Continued damage to field corn in the area is diminishing, since most fields have reached the early dough stage. Rain during the week reduced the population in most areas, but with a 7-10 day life cycle during





warm temperatures, a rapid build-up can be expected on peanuts. With the reported short supply of Azodrin, peanut farmers cannot afford to make unnecessary treatments. Windshield observations are not adequate to determine mite activity. (Thompson, Ext.; Hunt, Ext.)

SOYBEANS

VELVETBEAN CATERPILLAR (Anticarsia gemmatilis) - NORTH CAROLINA - Larvae of the velvetbean caterpillar are occurring in very small numbers as far north as Johnston County. This is significant because this soybean foliage feeder must migrate from the Gulf area and its appearance in North Carolina this early is unusual. (Sprenkel, Dept. of Ent.; Hunt, Ext.)

COTTON

BOLL WEEVIL (Anthonomus grandis) - NORTH CAROLINA - Hatchout of the first generation from bolls is underway with emergence occurring in all cotton growing areas of the state. The number of control applications are significantly less than expected in the Halifax - Northampton County area in view of the high overwintering population. Natural mortality is holding the population in check in many fields. (Worley, Ext.)

THE USE OF TRADE NAMES IN THIS SURVEY NOTE DOES NOT CONSTITUTE ENDORSEMENT OF ONE PRODUCT TO THE EXCLUSION OF OTHERS.

bp/340



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

During Week of July 18-24, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Man &amp; Animals</u>				
Tyrrell	4	Bob-white	Nymphs & adults	Rabbit tick, <i>Haemaphysalis leporispalustris</i> ; and Philopterid lice, <i>Colinicola numidiana</i> , <i>Goniodes ortygis</i> , & <i>Oxylpeurus clavatus</i>
<u>Grain, Soybeans &amp; Forages</u>				
Edgecombe	1	Soybeans	Larvae	Green cloverworm, <i>Plathypena scabra</i>
Johnston	2	Soybeans	Larvae	Green cloverworm, <i>Plathypena scabra</i> ; and velvetbean caterpillar, <i>Anticarsia gemmatalis</i>
Rowan	1	Corn	Adults	Corn sap beetle, <i>Carpophilus lugubris</i>
Wake	4	Ladino clover	---	Cowpea aphid, <i>Aphis craccivora</i> ; Eastern flower thrips, <i>Frankliniella tritici</i> ; tobacco thrips, <i>Frankliniella fusca</i> ; and a thrips, <i>Frankliniella</i> sp.
Wilson	1	Soybeans	Larvae	Green cloverworm, <i>Plathypena scabra</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Avery	1	Goldenrod	---	Undet. aphids
Beaufort	1	In pine seed orchard	Adults	Pine tip moth, <i>Rhyacionia</i> sp.
Burke	1	Basswood	Nymphs & adults	Basswood lace bug, <i>Gargaphia tiliae</i>
Davie	1	Sugar maple	All	Undet. spider mite
Edgecombe	1	Japanese holly	All	Undet. mealybug
Forsyth	1	White pine	---	Pine bark aphid, <i>Pineus strobi</i>
Lincoln	2	Walnut	Larvae	Underwing moths, <i>Catocala</i> spp.
McDowell	1	Rose	---	Undet. aphid
Pamlico	1	Walnut	Young larvae	Walnut caterpillar, <i>Datana integerrima</i>
Pitt	1	Dogwood	Injury	Undet. leafhopper
Scotland	1	Lombardy poplar	Larva	Bagworm, <i>Thyridopteryx ephemeraeformis</i>
Swain	1	Bald cypress	Larvae	Bagworm, <i>Thyridopteryx ephemeraeformis</i>
Transylvania	1	Maple, oak & walnut	Larvae	Hickory tussock moth, <i>Halisidota caryae</i>
Wake	1	Hickory	Old galls	Phylloxeran, <i>Phylloxera</i> sp.
Wake	1	Japanese holly	All	Undet. mealybug
Wake	1	Maple	Dead adults	Prob. gloomy scale, <i>Melanaspis</i> prob. <i>tenebricosa</i>
Wake	1	Pine	Old nest	Pamphiliid sawfly, prob. <i>Cephalacia</i> sp.
Watauga	1	Mountain ash	---	Undet. termites
Yadkin	4	Pignut hickory	---	Gall midges, <i>Caryomyia</i> prob. <i>holotricha</i> , <i>Caryomyia</i> prob. <i>antennata</i> , & <i>Caryomyia</i> near <i>caryaeicola</i> ; and an undet. gall mite
Yadkin	1	Fescue lawn	Larvae & pupa	Sod webworm moth, <i>Acrolophus</i> sp.

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

Page Two

Week of July 18-24, 1974

Fruit

Granville	1	Apple	---	Woolly apple aphid, <i>Eriosoma lanigerum</i>
McDowell	1	Apple	Injury	Woolly apple aphid, <i>Eriosoma lanigerum</i>
Scotland	1	Pecan	Larva	Walnut caterpillar, <i>Datana integririma</i>
Washington	3	Pecan	---	Undet. spittlebug; undet. aphid; and undet. poss. Nepticulid moth

Vegetables (Commercial & Garden)

Bladen	1	Tomato	Injury	Undet. bug
Caldwell	1	Green beans	Nymphs	Issid leafhopper, <i>Acanalonia conica</i>
Carteret	2	String beans and tomato	Nymphs & adult	Leaffooted bug, <i>Leptoglossus phyllopus</i> ; and brown stink bug, <i>Euschistus servus</i>
Carteret	1	Cantaloupe and cucumber	Larvae	Pickleworm, <i>Diaphania nitidalis</i>
Chatham	3	Broccoli	---	Crossstriped cabbageworm, <i>Evergestis rimosalis</i> ; agromyzid leafminer, <i>Liriomyza</i> sp.; and undet. aphid
Guilford	1	Parsley	Larva	Undet. weevil
McDowell	1	Irish potato	Adults	Greenhouse millipede, <i>Oxidus gracilis</i>
Richmond	2	Butterbeans and string beans	---	Undet. spider mite and undet. aphid
Wake	1	Butterbeans	Injury	Undet. thrips
Wake	3	Cucumbers	All, all, & nymphs	Undet. spider mites (2 spp.); and undet. whitefly
Wake	1	Pumpkin	Young larva	Squash vine borer, <i>Melittia cucurbitae</i>
Wake	1	Squash	Young larva	Squash vine borer, <i>Melittia cucurbitae</i>
Wake	2	Tomato	All	Undet. spider mites (2 separate samples)

Wood Destroying Insects

Wake	2	Dead pine	Workers; & dead adult	Subterranean termite, <i>Reticulitermes</i> sp.; and a bark beetle, <i>Ips calligraphus</i>
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Household & Industrial

Buncombe	1	In house	Adult	Yellow mealworm, <i>Tenebrio molitor</i>
Caldwell	1	In home	Adults	Cigarette beetle, <i>Lasioderma serricorne</i>
Harnett	1	In restaurant	Adult	Soldier fly, <i>Hermetia illucens</i>

Miscellaneous & Accidental Household

Buncombe	1	In house	Adult	Ground beetle, <i>Agonum</i> sp.
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Miscellaneous

Beaufort	1	In light trap	Adult	Undet. pyralid moth
Bladen	1	In yard	Adults	Soldier fly, <i>Hermetia illucens</i>
Bladen	1	In yard	Adult	Velvet ant, <i>Dasymutilla occidentalis</i>

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

Page Three

Week of July 18-24, 1974

Miscellaneous (cont'd)

Buncombe	1	On apple trunk	Nymphs & adults	Barklouse, <i>Psocus venosus</i>
Columbus	1	Flew into car	Adult	Cicada, <i>Cicada hieroglyphica</i>
Durham	1	On lawn	Adults	Prob. orangestriped oakworm, <i>Anisota prob. senatoria</i>
Jackson	1	On maple trunk	Nymphs & adults	Barklice, <i>Psocus venosus</i>
Lee	2	At lights, around lake	Adult	Undet. midge and undet. mayfly
Wake	1	Under bark of dead pine	Dead adult	Bark beetle, <i>Xyleborinus saxeseni</i>
Wake	1	--	Adult	Regal moth, <i>Citheronia regalis</i>





*Dr. Knight*  
**entomology**

August 2, 1974

RECEIVED

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

AUG 5 1974

ENTOMOLOGY DEPT.

PEANUTS

POTATO LEAFHOPPER (Empoasca fabae) - NORTH CAROLINA - Observations along Highway 64 revealed heavy leafhopper damage in one Martin County peanut field. Sweep net collections averaged about 4 leafhoppers per sweep. Ratio of nymphs to adults was about 50/50. Untreated fields on sandy soils in the Northeastern Coastal Plain (Hertford and Gates County area) have chronically had leafhopper problems. In recent years heavy infestations have shown up more frequently further south, particularly on light soils not treated with a systemic insecticide at planting. (Hunt, Ext.)

FOREST AND SHADE TREES

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - NORTH CAROLINA - The N. C. Forest Service believes North Carolina is experiencing one of the worst years on record for southern pine beetle damage. Prior to July 10, with surveys incomplete, 9000



spots of beetle-attacked timber had been located. This represented a 25% increase over the early spring outbreak and several thousand additional spots are expected when all surveys are completed. Usually young vigorously growing pines are not readily attacked, however, in some heavily infested areas, young planted pines are being attacked. (Forest Pest Newsletter, N. C. Forest Service).

#### LIGHT TRAP

Trap collections of corn earworm have risen to an average of 20 per trap per night in the Scotland County trap. Collections in Johnston County, Edgecombe County, Northampton County and Washington County will rise during week of August 5.

These moths are leaving corn fields and will be laying eggs on blooming soybean and cotton.

#### FEDERAL AND STATE P&ANT PROTECTION PROGRAMS

GYPSY MOTH (Porthetria dispar) - NORTH CAROLINA - One male gypsy moth has been collected from a sex lure trap off I-40 in Winston-Salem, Forsyth County. This collection is roughly 1 1/4 mi. SW of the 1973 infested area.

bp/340

FOREST AND SHAD TREES  
 SOUTHERN PINE BEETLE (Bendroctonus frontalis) - The N. C. Forest Service believes North Carolina is experiencing one of the worst years on record for southern pine beetle damage. Prior to July 10, with surveys incomplete, 9000



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

During Week of July 25-31, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Man &amp; Animals</u>				
Montgomery	1	Biting people	Adult	Dog flea, <i>Ctenocephalides canis</i>
Wake	1	Dog	Adults	Cat flea, <i>Ctenocephalides felis</i>
<u>Grain, Soybeans &amp; Forages</u>				
Avery	2	Corn	Adults	Grass thrips, <i>Anaphothrips obscurus</i> ; and an undet. aphid
Forsyth	1	Clover	All	Undet. mealybug
Perquimans	1	Corn (?)	Adult	Green June beetle, <i>Cotinis nitida</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Buncombe	1	White poplar	?All	Undet. aphid
Forsyth	1	Chinese elm	Injury	Elm leaf beetle, <i>Pyrrhalta luteola</i>
Gates	1	English oak	Injury	Undet. moth
Halifax	1	Sweetgum	Larva	Undet. geometrid moth
Hoke	1	Azalea	Adults	Fuller rose beetle, <i>Pantomorus cervinus</i>
Lincoln	1	Bishop's weed	All	Undet. spider mite
Northampton	1	Weed	Larva	Varigated fritillary butterfly, <i>Euptoieta claudia</i>
Onslow	1	Schefflera	Old injury	Undet. spider mite
Wake	1	Loblolly pine	Larvae	Redheaded pine sawfly, <i>Neodiprion lecontei</i>
Wake	1	Velvet plant	Young nymphs	Undet. coreid bug
<u>Vegetables (Commercial &amp; Garden)</u>				
Alamance	1	Squash	Larvae	Squash vine borer, <i>Melittia cucurbitae</i>
Alamance	1	Tomato	Injury	Undet. bug
Johnston	1	Beans	Injury	Undet. bug
Pender	1	Peas	Adults	Cowpea curculio, <i>Chalchodermus aeneus</i>
Robeson	3	Green beans	---	Undet. spider mite; undet. whitefly; and Japanese weevil, <i>Pseudocneorhinus bifasciatus</i>
Transylvania	1	Tomato	Larva	Stalk borer, <i>Papaipema nebris</i>
Wake	1	Green beans	All	Undet. spider mite
Union	1	Tomato	All	Undet. spider mite
Wake	1	Cucumber	Larvae	Undet. agromyzid leafminer
Wake	3	Tomato	All	Undet. spider mites (3 separate samples)
Wake	2	Tomato	All; and injury	Undet. whitefly; and agromyzid leafminer, <i>Liriomyza sativae</i>

Summary of Specimens Processed by Insect Clinic, NCSU

Page Two

Week of July 25-31, 1974

Wood Destroying Insects

Guilford	1	Entering attic	Workers	Carpenter ant, <i>Camponotus nearcticus</i>
Rowan	1	Porch column	Workers	Black carpenter ant, <i>Camponotus pennsylvanicus</i>
Wake	1	Dead pine	Adults	Weevil, <i>Cossonus corticola</i>
Wake	1	In home	Adult	Longhorned beetle, <i>Smodicum cucujiforme</i>

Household & Industrial

Pamlico	1	In home	Alates	Ant, <i>Crematogaster</i> sp.
Wake	1	In basement	Nymphs & adult	Smokybrown cockroach, <i>Periplaneta fuliginosa</i>
Wake	1	In basement	Alates	Ant, <i>Formica</i> sp.
Washington	2	Kitchen cabinets	Adults; & larval skin	Red flour beetle, <i>Tribolium castaneum</i> ; and a cabinet beetle, <i>Trogoderma</i> sp.

Miscellaneous & Accidental Household

Beaufort	1	Under floor sills	Egg cocoon	Undet. prob. wolf spider
Iredell	1	In home	Larva	Glowworm, <i>Phengodes</i> sp.
Wake	1	In home	Adult	Saltmarsh caterpillar, <i>Estigmene acrea</i>
Wake	1	In home	Adult	Prominent moth, <i>Misogada unicolor</i>

Miscellaneous

Alamance	1	On side of home	Larva	Undet. green lacewing
Bladen	1	In yard	Adult	Sphinx moth, <i>Paonias</i> sp.
Gaston	1	On lawn	Adult	Carion beetle, <i>Silpha americana</i>
Harnett	1	In injured pepper	Larvae	Humpbacked fly, <i>Megaselia</i> sp.
Iredell	1	Swarming around home	Adults	Undet. midge
Iredell	1	On pine trunk	Larva	Undet. green lacewing
Rowan	1	On screen door	Adult	Flannel moth, <i>Megalopyge</i> sp.
Wake	1	In potted plant soil	All	Isotomid springtail, <i>Folsomia</i> sp.

DATE: 07 31 1974

NUMBER OF SPECIMENS PROCESSED BY INSECT CLINIC: 100

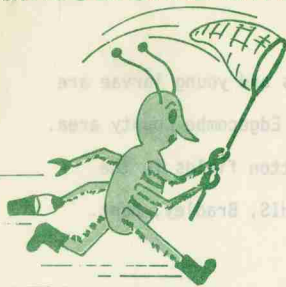


AUG 12 1974

Dr. Knight

ENTOMOLOGY DEPT.

entomology



August 9, 1974

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

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

Raleigh, N. C.

SOYBEANS

GREEN CLOVERWORM (Plathypena scabra) - NORTH CAROLINA - Observations in 10 soybean fields in Duplin and Sampson Counties revealed a relatively low green cloverworm population for early August. Heavy mortality was observed from disease organisms. High humidity for past 2 weeks has been very conducive to these worm diseases. (Hunt, Ext.)

CORN EARWORM (Heliothis zea) - NORTH CAROLINA - Adults were observed this week laying eggs on soybean blooms in Sampson and Duplin Counties. Light trap catches reveal that the flight of moths from corn is underway. Larvae can be expected in 1-2 weeks on soybeans. However, fields should be scouted since incidence of disease is very high. (Hunt, Ext.)



COTTON

CORN EARWORM (Heliothis zea) - NORTH CAROLINA - Eggs and young larvae are appearing on cotton in both Scotland County area and the Edgecombe County area. Insecticides are being applied to the majority of the cotton fields in the cotton growing areas of the Coastal Plain. (Ganyard, APHIS, Bradley, Dept. of Ent.)

TOTAL LIGHT TRAP COLLECTIONS, CORN EARWORM, Heliothis zea

<u>Location</u>	<u>8/2-8/5</u>	<u>8/6</u>	<u>8/7</u>	<u>8/8</u>	<u>8/9</u>
Weldon, Halifax Co.	93				
Potecasi, Northampton Co.	127				
Scotland Neck, Halifax	95				
Edgecombe Co. (3 traps)	139	149	346		
Plymouth, Washington Co.	0				
Scotland Co. (2 traps)	249	564	590	210	315



During Week of August 1-7, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Southern Field Crops</u>				
Chatham	1	Tobacco	--	Green peach aphid, <i>Myzus persicae</i>
Johnston	1	Tobacco	Larvae	Granulate cutworm, <i>Feltia subterranea</i>
<u>Grain, Soybeans &amp; Forages</u>				
Rutherford	1	Alfalfa	Injury	Threecornered alfalfa hopper, <i>Spissistilus festinus</i>
Sampson	1	Soybeans	Nymphs	Threecornered alfalfa hopper, <i>Spissistilus festinus</i>
Washington	2	Soybeans	Adults	Green stink bug, <i>Acrosternum hilare</i> ; and a flea beetle, <i>Disonycha glabrata</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Alamance	1	Gladiolus	All	Gladiolus thrips, <i>Taeniothrips simplex</i>
Alleghany	1	Azalea	All	Undet. whitefly
Burke	1	Japanese holly	All	Undet. mealybug
Cabarrus	1	Juniper	Old injury	Undet. spider mite
Catawba	1	Juniper	Old injury	Undet. spider mite
Durham	1	Weeping willow	?All	Undet. aphid
Guilford	1	Elm	Larvae & adults	Elm leaf beetle, <i>Pyrralta luteola</i>
Halifax	1	Crabapple & locust	Larvae	Bagworm, <i>Thyridopteryx ephemeræformis</i>
Onslow	1	Boxwood	Injury	Undet. spider mite
Orange	1	Aucuba	--	Undet. diaspidid scale
Polk	1	Sugar maple	Adults	Fuller rose beetle, <i>Pantomorus cervinus</i>
Stanly	1	Walnut	Larvae	Redhumped caterpillar, <i>Schizura concinna</i>
Virginia State	1	Hickory	Larvae	Gall midge, <i>Caryomyia</i> prob. <i>holotricha</i>
Wake	1	Pine	Injury	Prob. black turpentine beetle, prob. <i>Dendroctonus terebrans</i>
Watauga	1	Hickory, sourwood & walnut	Larvae	Prob. fall webworm, <i>Hyphantria</i> prob. <i>evea</i>
Watauga	2	Mountain ash	Larvae	Apple bark borer, <i>Synanthedon pyri</i> ; and cherry fruitworm, <i>Grapholitha paskardi</i>
<u>Fruit</u>				
Bladen	1	Grape	Larvae	Prob. grape curculio, prob. <i>Craponius inaequalis</i>
Halifax	1	Apple	Larvae	Bagworm, <i>Thyridopteryx ephemeræformis</i>
Lenoir	4	Peach	--	Undet. diaspidid scale; peachtree borer, <i>Sanninoidea exitiosa</i> ; and/or lesser peachtree borer, <i>Synanthedon pictipes</i> ; and prob. oriental fruit moth, prob. <i>Grapholitha molesta</i>
Watauga	1	Apple	Adults	Undet. bark beetle
<u>Vegetables (Commercial &amp; Garden)</u>				
Alamance	1	Tomato	Larva	Stalk borer, <i>Papaipema nebris</i>
Beaufort	1	Tomato	Adults	Leaffooted bug, <i>Leptoglossus phyllopus</i>
Columbus	1	Parsley	Larva	Parsleyworm, <i>Papilio polyxenes asterius</i>
Cumberland	2	Southern peas	Larvae	Lesser cornstalk borer, <i>Elasmopalpus lignosellus</i> ; and prob. spring rose beetle, prob. <i>Strigoderma arboricola</i>

Summary of Specimens Processed by Insect Clinic, NCSU  
 Page Two  
 Week of August 1-7, 1974

Vegetables (Commercial & Garden) cont'd

Durham	1	Beans	All	Undet. spider mite
Forsyth	1	Snapbeans	Larvae	Lesser cornstalk borer, <i>Elasmopalpus lignosellus</i>
Northampton	1	Field peas	Larva	Serpentine leafminer, <i>Liriomyza</i> sp.
Orange	1	Tomato	Adult	Leaffooted bug, <i>Leptoglossus phyllopus</i>
Orange	1	Potato & tomato	Adults	Margined blister beetle, <i>Epicauta pestifera</i>
Richmond	1	Field peas & lima bean	Larvae	Lesser cornstalk borer, <i>Elasmopalpus lignosellus</i>
Wake	1	Snapbean & field pea	Adults	Cowpea curculio, <i>Chalcoedermus aeneus</i>
Wake	1	Squash	Old injury	Prob. squash vine borer, prob. <i>Melittia cucurbitae</i>
Wake	2	Tomato	Larvae	Cabbage looper, <i>Trichoplusia ni</i> ; and yellowstriped armyworm, <i>Spodoptera ornithogalli</i>

Wood Destroying Insects

Montgomery	1	Under bark of pine lumber	Larva	Longhorned beetle, <i>Callidium</i> prob. <i>antennatum</i>
Watauga	1	In ceiling	Nest debris	Black carpenter ant, <i>Camponotus pennsylvanicus</i>

Household & Industrial

Johnston	1	In house	Larva	Soldier fly, <i>Hermetia illucens</i>
Stanly	1	In home	Alates	Ant, <i>Lasius</i> sp.
Wake	1	In basement	Alates	Ant, <i>Aphaenogaster</i> sp.

Miscellaneous & Accidental Household

Johnston	1	Around window of house	?All	Undet. entomobryid springtail
Wake	1	On wall in bakery	Adults	Sap beetle, <i>Stelidota geminata</i>

Miscellaneous

Burke	1	In yard	Adult	Velvet ant, <i>Dasymutilla occidentalis</i>
Lee	1	In garage	Adult	Waved sphinx moth, <i>Ceratomia undulosa</i>
Lee	1	In woods, etc.	Workers	Ant, <i>Formica integra</i> group
Pasquotank	1	Emerging from under aluminum siding	Adults	Japanese weevil, <i>Pseudocneorhinus bifasciatus</i>
Wake	1	On walkway	Worker	Ant, <i>Camponotus americanus</i>



COOPERATIVE AGREEMENT  
Weekly Report \*

*Knights*

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State North Carolina

Date August 16, 1974

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ENTOMOLOGY DEPT.

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 August 12 - August 16  
was not submitted because of annual leave.

*JNH*  
Thomas N. Hunt  
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.

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AUG 28 1974  
AUG 29 1974

ENTOMOLOGY DEPT.

entomology



August 23, 1974

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

SOYBEANS

CORN EARWORM (Heliothis zea) - NORTH CAROLINA - Samples taken in Duplin, Sampson, Cumberland, and Harnett Counties indicate that larvae in the 2nd, 3rd and 4th stage of development are appearing in soybean fields. Samples in Wilson, Edgecombe, Martin, and Washington counties indicate young larvae beginning to appear (1st and 2nd instar). Approximately 50% of the 15 fields examined in the southern counties which were blooming or had just past peak bloom were at or above the economic injury level (1 larva/ft of row). None of the 10 fields examined in the northern counties were at the economic injury level. Adult moths were observed in all fields examined. See the light trap collections for this week.

The incidence of disease is very high, and with continuing wet conditions, it will remain high. In view of the disease situation and local shortages of



some pesticides, scouting for next 3 weeks is very important. Farmers can not afford to treat fields which do not have a damaging population of worms. (Hunt, Ext.)

PEANUTS

TWOSPOTTED SPIDER MITES (Tetranychus urticae) - NORTH CAROLINA - The potential threat of widespread spider mite damage to peanuts in Northampton, Halifax, Chowan, Hertford County area has been greatly reduced due to heavy rain. However, low populations remain in many fields. (Hunt, Ext.)

FOREST AND SHADE TREES

FALL WEBWORM (Hyphantria cunea) - NORTH CAROLINA - Observations and reports reveal extensive damage to pecans, persimmon, sourcherry, hickorys and cherries from fall webworms. Observations along Hwy 64 and I 40 revealed 50+% of the persimmon trees (5+ ft in height) infested with 1-10 webs per tree (avg. 3) from Davidson County to McDowell County. Reports from Watauga County, Avery County area indicate a much heavier infestation than in the southwestern mountains. (Johnson, APHIS, Bowers, APHIS, Hunt, Ext.).

TOTAL LIGHT TRAP COLLECTIONS, CORN EARWORM, Heliothis zea

Location	August							
	15	16	17	18	19	20	21	22
Enfield	177	486	92	97	115	384	34	
Conway	657	1621	-	-	464	551	319	
Potecasi	250	367	Weekend total		191	217	348	348
Weldon	261	Total 16 & 17		710	459	273	662	
Scotland Neck	1625	(ratio 10♂:1♀)			1015	(Total 16, 17, 18)		
Edgecombe Co. (3 stages)	622	Total 16, 17, 18			344	308	457	
Plymouth	→ 202			Week end total		104	→ 78	

During Week of August 8-14, 1974

County	# of			
Collected	Specimens	Host(s)	Stage(s)	Determination
<u>Man and Animals</u>				
Bladen	2	Black bear	Adults	American dog tick, <i>Dermacentor variabilis</i> ; and lone star tick, <i>Amblyomma americanum</i>
Caswell	1	Woman	Adult	Jumping spider, <i>Phidippus</i> sp.
<u>Southern Field Crops</u>				
Forsyth	1	Tobacco	Larvae	Tobacco budworm, <i>Heliothis virescens</i>
Pender	1	Tobacco	Larvae	Tobacco budworm, <i>Heliothis virescens</i>
<u>Grain, Soybeans &amp; Forages</u>				
Duplin	1	Soybeans	Injury	Mexican bean beetle, <i>Epilachna varivestis</i>
<u>Forestry, Ornamentals &amp; Turf</u>				
Alamance	2	Gladiolus	Adults; and all	Eastern flower thrips, <i>Frankliniella tritici</i> ; and gladiolus thrips, <i>Taeniothrips simplex</i>
Alamance	1	Honeylocust	Old injury	Mimosa webworm, <i>Homadaula arisocentra</i>
Alamance	1	Red oak	Eggs	Undet. moth
Buncombe	1	Schefflera	?All	Banded greenhouse thrips, <i>Hercinothrips femoralis</i>
Caswell	2	Silver maple	Old injury	Maple bladdergall mite, <i>Vasates quadrupes</i> ; and an aphid, prob. <i>Drepanaphis</i> sp.
Catawba	1	Black gum	All	Undet. gall mite
Cherokee	3	Begonia, coleus, geranium, impatiens	All	Undet. mealybug
Johnston	1	Pine	Adult	Black turpentine beetle, <i>Dendroctonus terebrans</i>
McDowell	1	Grass roots	Adults	Darkwinged fungus gnat, <i>Sciara</i> sp.
Mecklenburg	1	Holly	Injury	Native holly leafminer, <i>Phytomyza illicicola</i>
Northampton	1	?Elm	Adults	Larger elm leaf beetle, <i>Monocesta coryli</i>
Polk	1	White pine	Larva	Pine devil, <i>Citheronia sepulchralis</i>
Wake	1	Crape-myrtle	All	Crapemyrtle aphid, <i>Tinocallis kahawaluokalani</i>
Wake	1	Elm	Larvae	Larger elm leaf beetle, <i>Monocesta coryli</i>
Wake	1	Red maple	Larvae & pupae	Gracillariid moth, <i>Lithocolletis aceriella</i>
Wake	2	Redbud	Injury	Undet. leafhopper; and prob. redbud leaf folder, prob. <i>Fascista cercerisella</i>
Washington	1	Dogwood	Larva	Longhorned beetle, <i>Oberea</i> sp.
Yadkin	1	Willow oak	Young larvae	Orangestriped oakworm, <i>Anisota senatoria</i>
<u>Fruit</u>				
Moore	1	Pecan	Larvae	Redhumped caterpillar, <i>Schizura concinna</i>
<u>Vegetable (Commercial &amp; Garden)</u>				
Chatham	1	Butterbeans	Injury	Undet. bug
Edgecombe	1	Carrot tops	Larvae	Parsleyworm, <i>Papilio polyxenes asterius</i>
Lincoln	1	Peas	Larvae	Lesser cornstalk borer, <i>Elasmopalpus lignosellus</i>



Summary of Specimens Processed by Insect Clinic, N.C.S.U.  
 Page Two  
 Week of August 8-14, 1974

Vegetables (Commercial & Garden) Cont'd

Orange	1	Beans	All
Wake	1	Tomato	All

Undet. spider mite  
 Undet. whitefly

Wood Destroying Insects

Carteret	1	Ash logs	Larva
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Longhorned beetle, prob. *Neoclytus* sp.

Household & Industrial

Bertie	2	In home	Alates
Chatham	1	In home	Adult
Wake	2	In flour, corn meal, etc.	Adults
Wake	1	Entering home	Adults

Ants, *Aphaenogaster* sp. & *Pheidole* sp.  
 Lesser mealworm, *Alphitobius diaperinus*  
 Cigarette beetle, *Lasioderma serricorne*; and merchant grain beetle, *Oryzaephilus mercator*  
 Soldier fly, *Hermetia illucens*

Miscellaneous & Accidental Household

Chatham	1	In home	Adult
Pitt	1	In home	Adult
Sampson	1	In office	Worker

Pitcheating weevil, *Pachylobius picivorus*  
 Eastern Hercules beetle, *Dynastes tityus*  
 Ant, *Camponotus americanus*

Miscellaneous

Avery	1	Cardboard boxes	Adult
Durham	1	On pine log	Larva
Haywood	1	On hemlock	Egg cocoon
Hertford	1	On gas pump	Adult
McDowell	1	On side of house	Adult
McDowell	1	On grass roots	Adult
Robeson	1	In garden	Adult
Wake	2	On aphid-infested crape-myrtle	All
Wake	1	In potted plant soil	All
Wake	1	Flying around yard	Adults

Eastern Hercules beetle, *Dynastes tityus*  
 Undet. green lacewing  
 Undet. crab spider  
 Regal moth, *Citheronia regalis*  
 Imperial moth, *Eacles imperialis*  
 Ground beetle, prob. *Acupalpus* sp.  
 Tiger beetle, *Megacephala carolina*  
 Undet. Acarid & Tydeid mites  
 Isotomid springtail, *Folsomia* sp.  
 Scoliid wasp, *Scolia d. dubia*

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

During Week of August 15-21, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Man and Animals</u>				
Johnston	1	Stung lady	Larva	Saddleback caterpillar, <i>Sibine stimulea</i>
<u>Southern Field Crops</u>				
Bladen	1	Tobacco	Young nymphs	Undet. stink bug
<u>Grain, Soybeans &amp; Forages</u>				
Gaston	1	Corn	Old injury	Undet. aphid
Gates	1	Corn	Old injury	Undet. spider mite
Hyde	1	Soybeans	Injury	Poss. threecornered alfalfa hopper, poss. <i>Spissistilus festinus</i>
Washington	1	Corn	Nymphs	Undet. Mirid plant bug
<u>Forestry, Ornamentals &amp; Turf</u>				
Alleghany	1	Black gum	Old injury	Tupelo leafminer, <i>Antispila nysaeifoliella</i>
Camden	1	Water oak	Young larvae	Pinkstriped oakworm, <i>Anisota virginiensis</i>
Catawba	2	Red maple	Old injury; nymphs & adults	Undet. aphid; and undet. Diaspidid scale
Columbus	2	Ragweed roots	Larva; and adults	Granulate cutworm, <i>Feltia subterranea</i> ; and carrot beetle, <i>Bothynus gibbosus</i>
Guilford	1	Maple root	Larva	Longhorned beetle, <i>Prionus</i> sp.
Haywood	1	Spruce	Old nest	Pamphiliid sawfly, prob. <i>Cephalocia</i> sp.
Iredell	1	Crape myrtle	Injury	Crapemyrtle aphid, <i>Tinocallis kahawaluokalani</i>
Iredell	1	Japanese holly	Nymphs & adults	Undet. Diaspidid scale
Johnston	1	Tree	Larva	Saddleback caterpillar, <i>Sibine stimulea</i>
Michigan state	1	Choke cherry	Larvae	Pearslug, <i>Caliroa cerasi</i>
Michigan state	4	Mossycup oak	Galls	Cynipid wasps: <i>Disholcaspis mamma</i> , <i>Acraspis macrocarpae</i> , prob. <i>Philonix nigra</i> , and prob. <i>Adleria dimorpha</i>
Montgomery	2	White oak	Injury; and old galls	Undet. Tenthredinid sawfly; and Cynipid wasp, <i>Acraspis</i> prob. <i>pezomachoides</i>
Montgomery	1	White pine	All	Pine bark aphid, <i>Pineus strobi</i>
Northampton	2	Boxwood	Old injury	Undet. spider mite; and boxwood leafminer, <i>Monarthropalpus buxi</i>
Wake	2	Azalea	Injury	Azalea lace bug, <i>Stephanitis pyrioides</i> ; and azalea leafminer, <i>Gracillaria azaleella</i>
Wake	1	Japanese cherry	Larvae	Saddleback caterpillar, <i>Sibine stimulea</i>
Wake	1	Dogwood	Young larvae	Notodontid moth, <i>Schizura</i> sp.

## Summary of Specimens Processed by Insect Clinic, NCSU

Page Two

Week of August 15-21, 1974

## Forestry, Ornamentals &amp; Turf (con't)

Wake	1	Willow Oak	Young larvae	Oakworm, <i>Anisota</i> sp.
Wake	1	Loblolly pine	Larvae	Tip moth, <i>Rhyacionia</i> sp.
Wake	1	Weeping willow	Injury	Undet. aphid
Wayne	1	Loblolly pine conelets	Nymphs	Undet. Coreid bug

## Fruit

Michigan state	2	Plum	Larvae	Pearslug, <i>Caliroa cerasi</i> ; and an undet. Pyralid moth
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## Vegetable

Chatham	1	Cucumber	?All	Undet. aphid
Greene	1	Parsley	Larvae	Parsleyworm, <i>Papilio polyxenes asterius</i>
Harnett	1	Pepper	Adults	Prob. pepper weevil, <i>Anthonomus prob. eugeni</i>
Jackson	2	Cabbage	Puparia; and larvae	Seedcorn maggot, <i>Hylemya platura</i> ; and cabbage maggot, <i>Hylemya brassicae</i>
Johnston	2	Tomatoes	Larvae	Cabbage looper, <i>Trichoplusia ni</i> ; and soybean looper, <i>Pseudoplusia includens</i>
Michigan state	1	Broccoli	Larvae & pupa	Imported cabbageworm, <i>Pieris rapae</i>
Orange	1	Lima beans	Injury	Undet. bug
Wake	1	Okra	Injury	Undet. bug
Wake	2	Squash	Larvae	Pickleworm, <i>Diaphania nitidalis</i>

## Wood Destroying Insects

Rowan	1	In home	Adults	Redheaded ash borer, <i>Neolytus acuminatus</i>
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## Household and Industrial Insects

Caswell	1	In house	Adults	Soldier fly, <i>Hermetia illucens</i>
Catawba	1	In home	Adults	Cat flea, <i>Ctenocephalides felis</i>
Franklin	1	In apartment	Nymphs & adults	German cockroach, <i>Blattella germanica</i>
Greene	1	Stored Irish potatoes	Larvae	Potato tuberworm, <i>Phthorimaea operculella</i>
Iredell	1	Kitchen cabinet	Larvae	Cigarette beetle, <i>Lasioderma serricorne</i>
McDowell	1	On refrigerator	Young nymphs	German cockroach, <i>Blattella germanica</i>
Wake	1	In basement	Adults	Rice weevil, <i>Sitophilus oryzae</i>

## Miscellaneous and Accidental Household

Johnston	1	In home	Nymph	Greenhouse stone cricket, <i>Tachycineta asynamoros</i>
Lincoln	1	Entered home	Adult	Syrphid fly, <i>Milesia virginiensis</i>
Rowan	1	In home	Adult	Soldier fly, <i>Pteticus</i> sp.
Wake	1	Around planter	Adult	Vinegar fly, <i>Drosophila</i> sp.

Summary of Specimens Processed by Insect Clinic, NCSU  
 Page Three  
 Week of August 15-21, 1974

Miscellaneous

Caswell	2	In garden	Adults	Planthopper, <i>Metcalfa pruinosa</i> ; and a ladybird beetle, <i>Olla abdominalis</i>
Chowan	1	In lawn	Adult	Scoliid wasp, <i>Scolia dubia</i>
Columbus	1	In car	Adult	Coreid bug, <i>Acanthocephala femoratus</i>
Davidson	1	On ground in woods	Larva	Undet. sphinx moth
Durham	1	On clothing	Adult	Larger elm leaf beetle, <i>Monocesta coryli</i>
Harnett	2	In decaying pepper	Larvae	Sap beetle, <i>Lobiopa</i> sp; and a vinegar fly, <i>Drosophila</i> sp.
McDowell	1	Around home	Drone	Yellowjacket wasp, <i>Vespula vidua</i>
Moore	1	On house	Adult	Larger elm leaf beetle, <i>Monocesta coryli</i>
Moore	1	On ground in yard	Adult	Imperial moth, <i>Eacles imperialis</i>
Onslow	1	In yard	Adult	Velvet ant, <i>Dasymutilla occidentalis</i>
Orange	1	Over lawn	Adult	Scoliid wasp, <i>Scolia dubia</i>
Salisbury	1	On side of house	Adult	Dobsonfly, <i>Chauliodes</i> sp.
Rutherford	1	--	Adult	Dobsonfly, <i>Chauliodes</i> sp.
Washington	1	In garage	Adults	Velvet ant, <i>Dasymutilla occidentalis</i>



SEP 4 1974  
Knight

ENTOMOLOGY DEPT.

entomology



August 30, 1974

TO: County Extension Agents and Others 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

SOYBEANS

CORN EARWORM (*Heliothis zea*) - NORTH CAROLINA - Field surveys in 10 open canopy and 5 closed canopy fields in Franklin, Nash, Halifax, Northampton, Bertie, and Edgecombe Counties reveal that approximately half of the corn earworm larvae observed have reached the 4th stage of development or larger. This is the period when most pods are damaged. The infestation is not as severe as in 1973, but economic infestations were present in 5 of the 10 open canopy fields examined. The heaviest infestation occurred near Essex, Halifax County, with 4.5 larvae/ft. of row. No moths were observed in the fields and very few larvae were found in late beans (presently near peak bloom). (Hunt, Ext.)

VELVETBEAN CATERPILLAR (*Anticarsia gemmatalis*) - NORTH CAROLINA - The heavy velvetbean caterpillar population experienced in 1973 has not materialized in 1974. To date samples in 70 fields scattered over the entire Coastal Plain have revealed



very few larvae of this defoliator. Little damage is expected in North Carolina except possibly to very late beans. (Hunt, Ext.)

VEGETABLES

POTATO TUBERWORM (Phthorimaea operculella) - NORTH CAROLINA - The number of inquiries of Extension Entomologists concerning this pest exceed those of any year in the past ten. This is apparently a result of the tremendous increase in the number of home gardeners. (Scott, Ext.)

FOREST AND SHADE TREES

TUPELO LEAFMINER (Antispia nysaefoliella) - NORTH CAROLINA - Damage from this insect has been observed on black gum, Nyssa sylvatica, over most of Madison County. Damage consists of holes in the leaves (roughly 1/4 in. dia.) which the larvae cuts out prior to pupation. (Bowers, APHIS).

LIGHT TRAP

Collections of corn earworm adults have dropped greatly at all reporting sites during the week (avg. 50/trap) indicating that peak egg laying has passed for this generation of corn earworms. One more generation is expected this year with larvae on soybeans and cotton about mid September.

bp/340



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

During Week of August 22-28, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Southern Field Crops</u>				
Bladen	1	Peanuts	Injury	Lesser cornstalk borer, <i>Elasmopalpus lignosellus</i>
Columbus	2	Tobacco	Pupae	Prob. Black cutworm, prob. <i>Agrotis ipsilon</i> ; and cabbage looper, <i>Trichoplusia ni</i>
<u>Grain, Soybeans &amp; Forages</u>				
Cumberland	5	Soybeans	--	Green stink bug, <i>Acrosternum hilare</i> ; brown stink bug, <i>Euschistus servus</i> ; threecornered alfalfa hopper, <i>Spissistilus festinus</i> ; saltmarsh caterpillar, <i>Estigmene acrea</i> ; and longhorned beetle, <i>Dectes texanus</i>
Orange	1	Corn	Larvae	European corn borer, <i>Ostrinia nubilalis</i>
Robeson	1	Corn	Larvae	Lesser cornstalk borer, <i>Elasmopalpus lignosellus</i>
Washington	1	Corn	Nymphs and adults	Fleahopper, <i>Halticus</i> sp.
Wayne	1	Soybeans	Larva	Undet. Geometrid moth
<u>Forestry, Ornamentals &amp; Turf</u>				
Alamance	1	Oak	Larvae	Orangestriped oakworm, <i>Anisota senatoria</i>
Avery	1	Mountain laurel	Larva	Geometrid moth, <i>Eupithecia</i> prob. <i>satyrata</i>
Brunswick	1	Fothergilla	Galls	Undet. gall aphid
Buncombe	1	Oak	Larva	Orangestriped oakworm, <i>Anisota senatoria</i>
Buncombe	1	Schefflera	Old injury	Undet. spider mite
Chatham	1	Weeping willow	?All	Aphid, <i>Pterocomma</i> sp.
Cumberland	1	Japanese holly	Nymphs	Wax scale, <i>Ceroplastes</i> sp.
Dare	1	Euonymus	All	Prob. Euonymus scale, prob. <i>Unaspis euonymi</i>
Dare	2	Morningglory	Larvae & pupae	Seed weevils, <i>Megacerus</i> spp.
Durham	1	Boxwood	Young larvae	Boxwood leafminer, <i>Monarthropalpus buxi</i>
Durham	1	Elm and hickory	Adult	Pigeon tremex, <i>Tremex columba</i>
Franklin	1	Elm	Adult	Larger elm leaf beetle, <i>Monocesta coryli</i>
Franklin	1	Ornamental bush	Adults	Fuller rose beetle, <i>Pantomorus cervinus</i>
Guilford	1	Schefflera	Injury	Undet. spider mite
Lincoln	1	Tree	Larval skins	Oakworm, <i>Anisota</i> sp.
Madison	3	Black gum	Larvae; larva; adult	Tupelo leafminer, <i>Antispila nysaeoliella</i> ; tortricid moth, <i>Amorbia</i> sp.; and a cricket, <i>Neocabea bipunctata</i>
Mecklenburg	1	Oak	Larvae	Orangestriped oakworm, <i>Anisota senatoria</i>
Moore	2	Marigold	All; and injury	Undet. spider mite; and an agromyzid leafminer, prob. <i>Liriomyza sativae</i>
Person	1	Juniper	Old injury	Undet. spider mite
Rowan	2	Pine	Adults	Black turpentine beetle, <i>Dendroctonus terebrans</i> ; and a pinhole borer, <i>Platypus flavicornis</i>

Summary of Specimens Processed by Insect Clinic, N.C.S.U.  
 Page Two  
 Week of August 22-28, 1974

Forestry, Ornamentals & Turf (con't)

Surry	1	Lawn	Adults	Sod webworm, <i>Acrolophus</i> sp.
Wake	1	Boxwood	Old injury	Undet. pyralid moth
Wake	1	Crape myrtle	All	Crapemyrtle aphid, <i>Tinocallis kahawaluokalani</i>
Wake	1	Dogwood	Larva	Prob. Dogwood twig borer, <i>Oberea</i> prob. <i>tripunctata</i>
Wake	1	Schefflera	Injury	Undet. spider mite
Washington	1	Ornamental plum	Larvae	Unicorn caterpillar, <i>Schizura unicornis</i>
<u>Fruit</u>				
Burke	2	Apple	Larvae	Variiegated cutworms, <i>Peridroma saucia</i> (2 separate samples)
Duplin	1	Strawberry	Adult	Strawberry rootworm, <i>Paria fragariae</i>
Orange	1	Oriental persimmon	Old injury	Undet. psyllid
<u>Vegetables</u>				
Alamance	1	Okra	Injury	Undet. bug
Catawba	1	Okra	Injury	Undet. bug
Davie	1	Okra	Injury	Undet. bug
Durham	1	Okra	Injury	Undet. bug
Gaston	1	Okra	Injury	Undet. bug
Guilford	1	Okra	Injury	Undet. bug
Haywood	1	Pole beans	Eggs	Undet. stink bug
Orange	1	Squash	All	Undet. spider mite
Polk	1	Bush beans	Larva	Lesser cornstalk borer, <i>Elasmopalpus lignosellus</i>
Sampson	1	Squash	Larvae	Squash vine borer, <i>Melittia cucurbitae</i>
Wake	1	Parsley	Larvae	Parsleyworm, <i>Papilio polyxenes astertus</i>

Wood Destroying Insects

Cleveland	1	In shipment	Workers & soldiers	Subterranean termite, <i>Reticulitermes</i> sp.
Pitt	1	of ovens		
Pitt	1	Under pine bark	Adults	Weevil, <i>Cossonus corticola</i>
Transylvania	1	On window sill	Adults	Bark beetle, <i>Pseudopityophthorus</i> sp.
		in home		
Wake	1	Firewood	Adults	Longhorned beetle, <i>Neoclytus mucronatus</i>
Yadkin	1	Dead red maple	Adults	Bark beetle, <i>Xyleborus</i> sp.

Household and Industrial Insects

Wake	5	Stored peas	--	Cowpea weevil, <i>Callosobruchus maculatus</i> ; bean weevil, <i>Acanthoscelides obtectus</i> ; rice weevil, <i>Sitophilus oryzae</i> ; prob. cadelle, prob. <i>Tenebroides mauritanicus</i> ; and Indian meal moth, <i>Plodia interpunctella</i>
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Summary of Specimens Processed by Insect Clinic, N.C.S.U.  
 Page Three  
 Week of August 22-28, 1974

Household and Industrial Insects (con't)

Wake	1	In home	Nymphs and adults	German cockroach, <i>Blattella germanica</i>
Wake	1	Stored Irish potatoes	Larvae & pupae	Potato tuberworm, <i>Phthorimaea operculella</i>
Watauga	2	In cupboard	Adults	Foreign grain beetle, <i>Ahasverus advena</i> ; and an undet. lathridiid beetle

Miscellaneous and Accidental Household

Durham	1	Entering home	Adult	Fuller rose beetle, <i>Pantomorus cervinus</i>
Guilford	1	In grocery store	Adult	Wheel bug, <i>Arilus cristatus</i>
Robeson	1	In home	Adult	Cricket, <i>Camptonotus carolinensis</i>

Miscellaneous

Camden	1	On and around home	Adults	Fuller rose beetle, <i>Pantomorus cervinus</i>
Dare	1	On marsh grass	Adults	Undet. yponomeutid moth
Duplin	1	Eating insects in garden	Adults	Stink bug, <i>Stiretrus anchorago</i>
Durham	1	In soil of houseplants	All	Undet. entomobryid springtail
Gaston	1	In lawn	Adult	Flatworm, <i>Bipalium kewense</i>
Haywood	1	In decaying head of cauliflower	Larva	Anthomyiid fly, prob. <i>Fannia</i> sp.
Montgomery	1	In vegetable garden	Adult	Cicada killer, <i>Sphecius speciosus</i>
Pamlico	1	On pecan trunk	Larvae	Undet. bagworm
Randolph	1	In driveway	Adult	Velvet ant, <i>Dasymutilla occidentalis</i>
Robeson	1	On lawn	Adult	Tiger moth, <i>Apantesis</i> sp.
Robeson	1	--	Adult	Io moth, <i>Automeris io</i>
Rowan	1	In yard	Adult	Rhinoceros beetle, <i>Xyloryctes jamaicensis</i>
Rutherford	1	In carport, on tree	Adults	Darkwinged fungus gnat, <i>Bradysia</i> sp.
Stanly	1	Flying over lawn	Adult	Scoliid wasp, <i>Scolia dubia</i>
Stanly	1	Flying over lawn	Adult	Scoliid wasp, <i>Scolia bicincta</i>
Vance	1	On pine trunk	Adult	Imperial moth, <i>Eacles imperialis</i>
Wake	1	On holly	Adult	Oxyopid spider, <i>Peucetia</i> sp.
Wake	1	On wall	Adult	Rosy maple moth, <i>Dryocampa rubicunda</i>
Wake	1	In yard	Adult	Velvet ant, <i>Dasymutilla occidentalis</i>

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# entomology

September 6, 1974 **RECEIVED**

TO: County Extension Agents and Other Interested Persons  
 FROM: Thomas N. Hunt, Survey Entomologist *J. N. Hunt* **SEP 9 1974**  
 SUBJECT: Insect Survey Report DEPT.

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

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

**DETECTION**

FALL ARMYWORM (Spodoptera frugiperda) and TRUE ARMYWORM (Pseudaletia unipuncta) - NORTH CAROLINA - South Carolina entomologists report heavy infestations of fall armyworms and true armyworms on sorghum, corn and other forage crops in Newberry County (central South Carolina). These insects usually occur in heavy, spotty infestations and generally attack grass crops. However, the fall armyworm will readily attack broadleaf crops, like soybeans. To date, no reports have been received concerning either of these insects during 1974 in North Carolina.

**SORGHUM**

CORN EARWORM (Heliothis zea) - NORTH CAROLINA - Reports and observations reveal severe damage to soybeans this week in many Northern Coastal Plain fields. All fields observed in the area contained large larvae (5th and 6th instar) with populations of 5/ft. observed in Franklin and Halifax Counties. Roughly 50% of the fields observed



in the area contained an economic infestation. Samples in Washington and Hyde Counties reveal a low population in that area, however, treatments have been needed in Chowan County area. Pupation in the ground is occurring and will continue next week. Farmers should be cautioned to be sure that the number of larvae present are at economic levels if treatments are applied. Concern of difficulties controlling corn earworms in soybeans with recommended rates has been expressed. Heavy rains have made controls difficult in some areas. (Hunt, Ext.; Hardison, Ext.)

COTTON

BOLLWORM (Heliothis zea) - NORTH CAROLINA - Even with recent rains in the cotton producing area of the Coastal Plain, controls for bollworms by cotton pest management groups have been adequate.

DETECTION

FALL ARMYWORM (Spodoptera frugiperda) and TRUE ARMYWORM (Pseudaletia unipuncta) - NORTH CAROLINA - South Carolina entomologists report heavy infestations of fall armyworm and true armyworms on sorghum, corn and other forage crops in Horry County (central South Carolina). These insects usually occur in heavy, moist infestations and generally attack grass crops. However, the fall armyworm will readily attack broadleaf crops, like soybeans. To date, no reports have been received concerning either of these insects during 1974 in North Carolina.

SORGHUM

CORN EARWORM (Heliothis zea) - NORTH CAROLINA - Reports and observations reveal severe damage to soybeans this week in many Northern Coastal Plain fields. All fields observed in the area contained large larvae (5th and 6th instar) with populations of 5000 observed in Franklin and Halifax Counties. Roughly 50% of the fields observed





*Knight*  
entomology

September 13, 1974

RECEIVED

TO: County Extension Agents and Other Interested Persons

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

SEP 13 1974

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 - Surveys this week, September 9 - 11, 1974, in Sampson, Duplin, Wayne and Nash Counties indicated a drop in the number of soybean fields with damaging populations of earworms. Pupation has occurred in all areas of the Coastal Plain. The number of open canopy fields sampled which were at threshold level (1/ft of row) has dropped to approximately 10% as compared to 50% one week earlier.

Reports from Northern Coastal Plain indicate heavy demand for soybean aerial treatments.

FARMERS SHOULD BE ABSOLUTELY SURE CORN EARWORMS ARE PRESENT BEFORE CHEMICALS ARE APPLIED FOR THEIR CONTROL. (Hunt, Ext.)





VEGETABLES

A NOCTUIDAE (Platysenta sp.) - NORTH CAROLINA - Larvae attacking 50 acres of carrots in Hyde County. Approximately 90% of the foliage has been destroyed.

(O'Neal, Ext.)

FEDERAL AND STATE PLANT PROTECTION PROGRAMS

GYPSY MOTH (Porthetria dispar) - NORTH CAROLINA - Collection of 3 male moths have been made during the 1974 trapping season from sex lure traps.

1. Forsyth County - S.W. Winston Salem on I-40.
2. Avery County - Near Linville in a camper trailer park.
3. Camden County - In a remote area on a paper company's land near Bellcross.

This is a new county record.

Collections during 1973 totaled about 40 male moths with a concentration in the Outer Banks area of Dare and Currituck Counties.

Trapping for 1974 has been completed.



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

During Week of Aug. 29 - Sept. 4, 1974

County	# of Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Man and Animals</u>					
Northampton	1		In bed	Nymph and adult	Bed bug, <i>Cimex lectularius</i>
Wake	1		Dog's sleeping area	Nymphs and adults	Brown dog tick, <i>Rhipicephalus sanguineus</i>
<u>Southern Field Crops</u>					
Columbus	1		Peanuts	Adults	Twolined spittlebug, <i>Prosapia</i> sp.
Martin	2		Peanuts	Larvae	Granulate cutworm, <i>Feltia subterranea</i> ; and prob. celery leaf-tier, prob. <i>Udea rubigalis</i>
<u>Grain, Soybeans and Forages</u>					
Columbus	2		Sorghum	Larvae	Sorghum webworm, <i>Celama sorghiella</i> ; and corn earworm, <i>Heliothis zea</i>
Johnston	2		Soybeans	Larvae	Armyworm, <i>Pseudaletia unipuncta</i> ; and a noctuid moth, <i>Anicla infecta</i>
<u>Forestry, Ornamentals and Turf</u>					
Atamance	1		Japanese holly	All	Undet. mealybug
Alexander	1		Japanese cherry	Larva	Yellownecked caterpillar, <i>Datana ministra</i>
Alexander	1		Oak	Larva	Orangestriped oakworm, <i>Anisota senatoria</i>
Catawba	1		Willow oak	Old injury	Undet. spider mite
Cherokee	1		White pine	Injury	Pine bark aphid, <i>Pineus strobi</i>
Craven	1		Willow	--	Aphid, <i>Pterocomma</i> sp.
Davie	1		Willow oak	?All	prob. Obscure scale, prob. <i>Melanaspis obscurus</i>
Haywood	1		Chinese chestnut	Nymphs and adults	Treehopper, <i>Platycotis vittata</i>
Lincoln	1		Crabapple	Larvae	Greenstriped mapleworm, <i>Dryocampa rubicunda</i>
Lincoln	1		Maple	Larvae	Redhumped caterpillar, <i>Schizura concinna</i>
McDowell	1		Wild cherry	Larvae	Fall webworm, <i>Hyphantria cunea</i>
Moore	1		Euonymus	All	prob. Euonymus scale; prob. <i>Unaspis euonymi</i>
Moore	1		Japanese holly	Nymphs	Wax scale, <i>Ceroplastes</i> sp.
Moore	1		Centipede grass	Adults	Twolined spittlebug; <i>Prosapia</i> sp.
Moore	1		Lilac	Larva	Lilac borer, <i>Podosecia s. syringae</i>
New Hanover	1		Shrubs	Adults	Japanese weevil, <i>Pseudocneorhinus bifasciatus</i>
Rowan	1		Camellia	All	prob. Tea scale, prob. <i>Fiorinia theae</i>
Rutherford	1		Virginia pine	Larva	Pyralid moth, <i>Dioryctria</i> sp.
Scotland	1		Willow oak	Galls	Cynipid gall wasp, <i>Callirhytis difficilis</i>
Wake	1		Dogwood	Larva	Notodontid moth, <i>Heterocampa</i> sp.
Wake	1		Elm	Larvae	Elm leaf beetle, <i>Pyrrhalta luteola</i>
Wake	1		Fern	All	

## Summary of Specimens Processed by Insect Clinic, NCSU

Page Two

Week of Aug. 29 - Sept. 4, 1974

Forestry, Ornamentals and Turf (con't)

Wake	3	Honey locust	Larvae	Io moth, <i>Automeris io</i> ; false unicorn caterpillar, <i>Schizura ipomoeae</i> ; and an undet. geometrid moth.
Wayne	1	Sycamore	Larvae	Whitemarked tussock moth, <i>Hemerocampa leucostigma</i>
Yadkin	1	Lilac	Larvae	Lilac borer, <i>Podessia s. syringae</i>
Fruit				
Catawba	1	Apple	Injury	Undet. bug
Edgecombe	1	Peach	Old injury	prob. Oriental fruit moth, prob. <i>Grapholitha molesta</i>
Franklin	1	Apple	Larva	Puss caterpillar, <i>Megalopyge opercularis</i>

Vegetables (Commercial and Garden)

Columbus	1	Green beans	All	Undet. spider mite
Rowan	1	Lima beans	Nymphs	Undet. stink bug

Wood Destroying Insects

Onslow	1	Firewood	Adults	Bark beetle, <i>Phloeotribus</i> sp.
Wake	1	In kitchen	Worker	Black carpenter ant, <i>Camponotus pennsylvanicus</i>

Household and Industrial Insects

Carteret	1	Fish meal	Larvae	Hide beetle, <i>Dermestes maculatus</i>
Catawba	1	Maltage and small grain silage	Larvae	Undet. soldier fly
Cumberland	1	Entering home	Adults	Vinegar fly, <i>Drosophila</i> sp.
Duplin	1	Stored Irish potatoes	All	Potato tuberworm, <i>Phthorimaea operculella</i>
Hoke	2	Stored rye	Adults	Corn sap beetle, <i>Carpophilus dimidiatus</i> ; and rice weevil, <i>Sitophilus oryzae</i>
Wake	1	In home	Adults	Smokybrown cockroach, <i>Periplaneta fuliginosa</i>
Wake	1	prob. popcorn	Larva	Indian meal moth, <i>Plodia interpunctella</i>
Wake	1	In home	Adults	Undet. clothes moth
Wake	1	In flour	Adults	Cigarette beetle, <i>Lasioderma serricornae</i>
Wake	1	In beans	Adults	Cowpea weevil, <i>Callosobruchus maculatus</i>
Wake	1	Flour or beans	Adult	Spider beetle, <i>Gibbium psylliodes</i>
<u>Miscellaneous and Accidental Household</u>				
Buncombe	1	In basement	Adult	Agelenid spider, <i>Agelenopsis</i> sp.
Caswell	2	in office	Adults	Longhorned beetle, <i>Prionus pocularis</i> ; and a scarab beetle, <i>Phileurus</i> sp.
Wake	1	In home	Adult	Wolf spider, <i>Lycosa</i> sp.

Summary of Specimens Processed by Insect Clinic, NCSU

Page Three

Week of Aug. 29 - Sept. 4, 1974

Miscellaneous

Alamance	1	Debris on a mealybug-infested holly	Larvae	Undet. moth
Catawba	1	On pine	Dead adults	Undet. muscoid fly
Columbus	3	In peanut field	Adults	Ground beetles: <i>Anisotarsus</i> sp.; <i>Calosoma</i> sp., and <i>Geopinus incrassatus</i>
Durham	1	Under home	Larvae	Undet. midge
Edgecombe	1	On ground	Adult	Velvet ant, <i>Dasymutilla occidentalis</i>
Edgecombe or Nash	1	--	Adult	Lesser mealworm, <i>Alphitobius diaperinus</i>
Johnston	1	In yard	Adult	Velvet ant, <i>Dasymutilla occidentalis</i>
Mecklenburg	2	--	Adults	Rustic borer, <i>Xylotrechus colonus</i> ; and an undet. bethyloid wasp
Moore	1	On lawn	Adult	Scoliid wasp, <i>Scolia dubia</i>
Rutherford	1	Around home	Adults	Darkwinged fungus gnat, <i>Bradysia</i> sp.
Surry	1	--	Adults	Carpenter bee, <i>Xylocopa virginiana</i>
Wake	1	In greenhouse	Adult	Lygaeid bug, <i>Lygaeus bicrucis</i>

1974 - 2 - 26th week of July



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

During week of Sept. 5 - 11, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Man and Animals</u>				
Wake	1	Stung child	Larva	Puss caterpillar, <i>Megalopyge opercularis</i>
<u>Grain, Soybeans and Forages</u>				
Franklin	1	Soybeans	Larvae	Corn earworm, <i>Heliothis zea</i>
Johnston	3	Corn	Larvae	Southern cornstalk borer, <i>Diatraea crambidoides</i> ; European corn borer, <i>Ostrinia nubilalis</i> ; and lesser cornstalk borer, <i>Elasmopalpus lignosellus</i>
Lenoir	1	Corn	Larva	Corn earworm, <i>Heliothis zea</i>
Wake	1	Soybeans	Adult	Longhorned beetle, <i>Dectes texanus</i>
<u>Forestry, Ornamentals and Turf</u>				
Columbus	1	Cinquapin	Larvae	Yellownecked caterpillar, <i>Datana ministra</i>
Columbus	1	Water oak	Larvae	Notodontid moth, <i>Datana contracta</i>
Johnston	1	Pine	Larvae	Imperial moth, <i>Eacles imperialis</i>
Johnston	1	White pine	Pupae	Bagworm, <i>Thyridopteryx ephemeraeformis</i>
Lee	2	Oak	Pupa; and larvae	Whitemarked tussock moth, <i>Hemerocampa leucostigma</i> ; and yellownecked caterpillar, <i>Datana ministra</i>
Lincoln	1	Willow oak	Injury	undet. Longhorned beetle
Martin	1	Azalea	Larvae	Azalea caterpillar, <i>Datana major</i>
Montgomery	1	Willow oak	Larva	Orangestriped oakworm, <i>Anisota senatoria</i>
Pitt	1	Burford holly	Larvae	Puss caterpillar, <i>Megalopyge opercularis</i>
Sampson	1	Silver maple	Larvae	Greenstriped mapleworm, <i>Dryocampa rubicunda</i>
Wake	1	Oak or pine	Injury	undet. aphid (sooty mold on oak under pine)
Wake	1	Rose	Larva	Saddleback caterpillar, <i>Sibine stimulea</i>
Wake	1	Weeping willow	Larvae	Poplar tentmaker, <i>Ichthyura inclusa</i>
<u>Fruit</u>				
Lee	1	Apple	Larva	Whitemarked tussock moth, <i>Hemerocampa leucostigma</i>
Rowan	1	Apple	Old injury	Apple maggot, <i>Rhagoletis pomonella</i>
<u>Vegetables</u>				
Johnston	1	Okra	Larva	Corn earworm, <i>Heliothis zea</i>
<u>Wood Destroying Insects</u>				
Alamance	1	Dead fig branch	Larva	Longhorned beetle, prob. <i>Elaphidion</i> sp.

Summary of Specimens Processed by Insect Clinic, NCSU  
 Page Two  
 During Week of Sept. 5 - 11, 1974

Household and Industrial Insects

Craven	1	In home	Adults	German cockroach, <i>Blatella germanica</i>
Durham	1	On ceiling in home	Larvae & pupa	Indian meal moth, <i>Plodia interpunctella</i>
Forsyth	1	In home	Adults	undet. Moth fly
Gaston	2	Wheat bin	Adults	Foreign grain beetle, <i>Ahasverus advena</i> ; and a cucujid beetle, <i>Laemophloeus</i>
Granville	1	Stored Irish potatoes	All	Potato tuberworm, <i>Phthorimaea operculella</i>
McDowell	1	In home	Alates	Ant, <i>Crematogaster</i> sp.
Transylvania	1	In sofa in home	Larvae	undet. Flea
Wake	5	Stored grain	--	Booklouse, <i>Liposcelis</i> sp.; Indian meal moth, <i>Plodia interpunctella</i> ; cucujid beetle, <i>Laemophloeus</i> sp.; sawtoothed grain beetle, <i>Oryzaephilus surinamensis</i> ; and rice weevil, <i>Sitophilus oryzae</i>

Miscellaneous and Accidental Household

Wake	1	In home	Juvenile	Pisaurid spider, <i>Dolomedes</i> sp.
<u>Miscellaneous</u>				
Columbus	1	On lawn	Nymph skin	Cicada, <i>Tibicen</i> sp.
Guilford	1	On outside of home	Adults	Soldier fly, <i>Hermetia illucens</i>
Mecklenburg	1	Swarming	Adult	Scoliid wasp, <i>Scolia dubia</i>
New Hanover	1	In yard	Juvenile	Widow spider, <i>Latrodectus</i> sp.
Northampton	2	On side of house	Adults	Redheaded ash borer, <i>Neoclytus acuminatus</i> ; and rustic borer, <i>Xylotrechus colonus</i>
Rowan	1	On lawn	Larva	Orangestriped oakworm, <i>Anisota senatoria</i>
Rowan	1	Around shrubbery	Adult	Scoliid wasp, <i>Scolia dubia</i>
Rutherford	1	In ground in woods	Pupa	Eastern Hercules beetle, <i>Dynastes tityus</i>



Dr. Knight  
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 entomology

SEP 23 1974

ENTOMOLOGY DEPT. 1974

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 - The southern pine beetle epidemic continues to expand in North Carolina with 81 of 100 counties infested during surveys conducted July, 1974. The beetles infested 60 counties in July, 1973 and 71 counties in January, 1974. Infested area has risen from 5 million acres in 1972 to 16 million acres during July, 1974 on private and government-owned lands. The number of infested spots range upward to 1,000 spots per county. (See enclosed table).

## TURF

MOLE CRICKET (Gryllotalpa hexadactyla) - NORTH CAROLINA - A heavy mole cricket infestation and extensive damage is occurring to 4 hybrid Bermuda greens at Cheviot Hills Golf Course, Raleigh, North Carolina. Ridges produced by this insect cause



rough greens plus a scalped place when the greens are mowed. (Robertson, Ext.)

SITUATION AND ACCOMPLISHMENTS

Fiscal Year 1972 - 1974

Infested Vol. Salvaged 1/

		FY 1972	FY 1973	FY 1974			
State	Ownership	MBH	MCF	MBH	MCF		
	N. C.	Private	21,025	-	20,143	2,351	41,833
	Federal	900	-	2,012	110	2,459	705
	Total	21,925	-	22,155	2,461	44,292	7,136

(U.S. Forest Service, Atlanta; North Carolina Forest Service, Raleigh)

- 1/ FY = July 1 - June 30
- MBH = Thousand board feet
- MCF = Thousand cubic feet

bp/340





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

During Week of Sept. 12 - 18, 1974

County Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Miscellaneous and Accidental Household</u>				
Alexander	1	Stung lady	Larva	Puss caterpillar, <u>Megalopyge opercularis</u>
Wake	1	Dog	Nymphs	Brown dog tick, <u>Rhipicephalus sanguineus</u>
<u>Southern Field Crops</u>				
Samson	1	Stored tobacco	Larvae	Yellow mealworm, <u>Tenebrio molitor</u>
<u>Grain, Soybeans &amp; Forages</u>				
Pamlico	1	Soybeans	Larva	Skipper butterfly, prob. <u>Pamphila</u> sp.
Rowan	1	Sorghum	Larvae	Corn earworm, <u>Heliothis zea</u>
<u>Forestry, Ornamentals and Turf</u>				
Alamance	1	Willow oak	Galls	Cynipid wasp, <u>Callirhytis difficilis</u>
Beaufort	1	Light trap in pine seed orchard	Adults	Pine tip moth, <u>Rhyacionia</u> sp.
Bertie	2	Pine	Larvae	Sphinx moth, <u>Lapara</u> prob. <u>coniferarum</u> ; and imperial moth, <u>Eacles imperialis</u>
Clay	1	Maple	Larvae	Greenstriped mapleworm, <u>Dryocampa rubicunda</u>
Columbus	1	Japanese maple	Larva	Puss caterpillar, <u>Megalopyge opercularis</u>
Columbus	2	Sycamore	Larvae	Sycamore tussock moth, <u>Halisidota harrisii</u> ; and whitemarked tussock moth, <u>Hemerocampa leucostigma</u>
Craven	1	Azalea	Larva	Azalea caterpillar, <u>Datana major</u>
Durham	1	Arborvitae	Old injury	prob. undet. Spider mite
Durham	1	Weeping willow	Larva	Poplar tentmaker, <u>Ichthyura inclusa</u>
Edgemcombe	1	Red maple	Larvae	False unicorn caterpillar, <u>Schizura ipomoeae</u>
Edgemcombe	1	Oak	Larvae	Orangestriped oakworm, <u>Anisota senatoria</u>
Forsyth	1	Schefflera	All	undet. Spider mite
Franklin	1	Pine	Adults	Black turpentine beetle, <u>Dendroctonus terebrans</u>
Jackson	1	Oak	Adult	Bark beetle, <u>Xyleborus</u> sp.
Lincoln	1	Geranium	Larvae	Tobacco budworm, <u>Heliothis virescens</u>
Lincoln	1	Japanese holly	All	undet. Mealybug
Montgomery	1	Viburnum	Old injury	undet. Leafhopper
Onslow	1	Willow oak	Galls	Cynipid wasp, <u>Callirhytis difficilis</u>
Pasquotank	1	Houseplant	All	undet. Mealybug
Randolph	1	Impatiens	All	undet. Mealybug
Randolph	1	Mulch & grass	Larva	Green June beetle, <u>Cotinis nitida</u>

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

Page Two

Week of Sept. 12-18, 1974

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

Rutherford	1	Hickory & oak	Adult	Pinhole borer, <u>Platypus quadridentatus</u>
Sampson	1	Pine	All	undet. Diaspidid scale
Wake	1	Gardenia	All	undet. Mealybug
Wake	1	Willow oak	Old injury	undet. Spider mite
Wake	1	Pine	Larvae & adults	Black turpentine beetle, <u>Dendroctonus terebrans</u>
Wake	1	Streptocarpus	Eggs	undet. Katydid

## Fruit

Atamance	1	Apple	Old injury	prob. Codling moth, prob. <u>Laspeyresia pomonella</u>
Cleveland	1	Apple	Larvae	Shothole borer, <u>Scolytus rugulosus</u>

## Vegetables

Bladen	1	Cowpea	Larvae	European corn borer, <u>Ostrinia nubilalis</u>
Graham	1	Irish potatoes	Larvae	Wireworm, <u>Melanotus</u> sp.
Hyde	1	Carrot tops	Larvae	Cutworm, <u>Platysenta</u> sp.
Moore	1	Parsley	Larvae	Parsleyworm, <u>Papilio polyxenes asterius</u>

## Wood Destroying

Wake	1	Pine board	Larvae	Oldhouse borer, <u>Hylotrupes bajulus</u>
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## Household and Industrial

Alexander	1	On kitchen counter	Nest debris	undet. Ant
Davidson	1	In apartment	Adult	German cockroach, <u>Blattella germanica</u>
Wake	1	In closet	Larva	Casemaking clothes moth, <u>Tinea pellionella</u>

## Miscellaneous

Atamance	1	In yard	Adult	Velvet ant, <u>Dasyutilla occidentalis</u>
Beaufort	3	Light trap	Adults	Noctuid moth, <u>Elaphria chalconia</u> ; Noctuid moth, <u>Spragueia dama</u> ; Pyralid moth, <u>Nephoteryx uvinella</u>
Beaufort	1	In corn field	Workers	Ant, <u>Pheidole</u> sp.
Beaufort	1	--	Adult	Velvet ant, <u>Dasyutilla occidentalis</u>
Davidson	2	In yard	Adults	undet. Sowbug; and a ground beetle, prob. <u>Anisotarsus</u> sp.
Edgcombe	1	On lawn	Larva	Hickory horned devil, <u>Citheronia regalis</u>
Guilford	1	On driveway	Larvae	undet. Darkwinged fungus gnāt
Halifax	1	On tobacco leaf	Pupa	Swallowtail butterfly, <u>Papilio</u> sp.

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

Page Three

Week of Sept. 12-18, 1974

Miscellaneous (con't)

<u>Iredell</u>	1	In yard	Adult	Flatworm, <u>Bipalium kewense</u>
<u>Iredell</u>	1	Flying over lawn	Adult	Scoliid wasp, <u>Scolia dubia</u>
<u>Lincoln</u>	1	Around home	Adult	Flatworm, <u>Bipalium kewense</u>
<u>Moore</u>	1	On pine	Adult	Assassin bug, <u>Psephenopus cinctus</u>
<u>Pitt</u>	1	On porch	Adult	Sphinx moth, <u>Eumorpha fasciata</u>
<u>Randolph</u>	1	In parking area	Adult	Mole cricket, <u>Neocurtillia</u> sp.
<u>Randolph</u>	1	Swarming	Alates	Ant, <u>Lasius neoniger</u>
<u>Robeson</u>	1	On walkway	Adult	Predaceous diving beetle, <u>Dytiscus</u> sp.
<u>Rutherford</u>	1	In hickory or oak	Adult	Colydiid beetle, <u>Aulonium</u> sp.
<u>Sampson</u>	1	Attacking scales on pine	Larva	Undet. Pyralid moth

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SEP 30 1974

ENTOMOLOGY DEPT.

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September 27, 1974

TO: County 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 is compiled by: Thomas N. Hunt, Survey Entomologist

Raleigh, NC

SOYBEANS

MEXICAN BEAN BEETLE (Epilachna varivestis) - NORTH CAROLINA - Surveys conducted in a total of 50 fields while in route from Wake County to Washington County, Wake County to Duplin County, and Wake County to Robeson County revealed that 4% of the fields sampled had economically significant defoliation. All fields along these routes which had damage observable from the automobile traveling at 50 m.p.h. were sampled. This limited survey plus contacts with field personnel indicate that the highest incidence of economic damage is occurring in the Robeson and Cumberland County area. Some fields in that area have received 2 insecticide applications for Mexican bean beetle control.

Pod maturity must be considered when a decision concerning bean beetle control is made this late in the season.





I would be interested in any economic injury which is occurring from this pest on soybeans in your area of North Carolina. (Johnson, APHIS; Hunt, Ext.; Jernigan, Ext.)

FRUITS

GRAPE ROOTBORER (Vitaceae polistiformis) - NORTH CAROLINA - Peak emergence this year in the Shelby area, Cleveland County, corresponded closely with the pattern observed during 1973. In Richlands, Onslow County, peak emergence was later in 1974 than in 1973. Highest counts during 1973 occurred August 15 (46 pupal skins) and August 23 (45 pupal skins). Highest counts during 1974 occurred August 27 (36 pupal skins) and September 4 (28 pupal skins). (Sorensen, Ext.)

ORNAMENTALS

TWOLINED SPITTLEBUG (Prosapia bicincta) - NORTH CAROLINA - All stages of the twolined spittlebug are occurring over the majority of Robeson County. Counts near Lumberton revealed 105 adults and 30 spittle masses (nymphs are inside) on 5 Japanese holly and 3 azalea plants. Premature yellowing and leaf drop will result from adult feeding. Spittle masses were heaviest on grasses and weeds. (Wright, Ext.; Johnson, APHIS).

bp/340



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

During Week of Sept. 19-25, 1974

County	# of Collected	# of Specimens	Host(s)	Stage(s)	Determination
<u>Man and Animals</u>					
Guilford	1		Pigeon	Adult	Pigeon fly, <i>Pseudolynchia canariensis</i>
Stanly	2		Fishworm bed	All; and larvae	undet. Uropodid mite; and undet. soldier fly
<u>Southern Field Crops</u>					
Lenoir	1		Peanuts	Larva	Io moth, <i>Automeris io</i>
<u>Grain, Soybeans &amp; Forages</u>					
Bladen	1		Soybeans	Old injury	Mexican bean beetle, <i>Epilachna varivestis</i>
Davidson	1		Corn	Larva	Southern cornstalk borer, <i>Diatraea crambidoides</i>
<u>Forestry, Ornamentals &amp; Turf</u>					
Beaufort	1		Light trap in pine orchard	Adults	Pyralid moth, <i>Dioryetria</i> prob. <i>taedae</i>
Brunswick	1		Salicornia seeds	Larvae	undet. Casebearer moth
Guilford	1		Azalea	Injury	Azalea lace bug, <i>Stephanitis pyrioides</i>
Guilford	1		Canna	Larvae	Corn earworm, <i>Heliothis zea</i>
Lee	1		Redbud	Adult	False powderpost beetle, <i>Xylobiops basilare</i>
McDowell	1		Beech	Larva	Puss caterpillar, <i>Megalopyge opercularis</i>
Richmond	1		Moonflower	Adult	Golden tortoise beetle, <i>Metriona biocolor</i>
Wake	1		Azalea	Injury	undet. Spider mite
Wake	1		Chesnut	Larvae	Orangestriped oakworm, <i>Anisota senatoria</i>
Wake	1		Black walnut	Larvae	Husk fly, <i>Rhagoletis</i> sp.
Washington	1		Azalea	Adults	Japanese weevil, <i>Pseudocneorhinus bifasciatus</i>
Washington	1		Water oak	Larvae & pupae	Orangestriped oakworm, <i>Anisota senatoria</i>
Washington	1		Shrubbery	Larva	Hickory horned devil, <i>Citheronia regalis</i>
Wilkes	1		Locust	Larvae	Crinkled flannel moth, <i>Megalopyge crispata</i>
<u>Fruits</u>					
Pitt	1		Pecan	Injury	undet. Gall mite
<u>Vegetables</u>					
Durham	1		Turnip	Larva	Cabbage looper, <i>Trichoplusia ni</i>
Stokes	1		Sweet potato & watermelon	Adults	Greenhouse millipede, <i>Oxidus gracilis</i>
<u>Wood Destroying Insects</u>					
Catawba	1		Stripping in home	Larva	Oldhouse borer, <i>Hylotrupes bajulus</i>
Montgomery	1		Dead white pine	Young larvae	Pine sawyer, <i>Monochamus</i> sp.

Summary of Specimens Processed by Insect Clinic, NCSU  
 Page Two  
 Sept. 19-25, 1974

Wood Destroying Insects (con't)

Randolph 1 In home Workers  
 Transylvania 1 Dying white pine Adult

Black carpenter ant, *Camponotus pennsylvanicus*  
 Bark beetle, *Pityogenes* sp.

Household and Industrial

Franklin 1 Stored Irish Larvae  
 potatoes  
 Harnett 1 In home Adults  
 Moore 1 Stored Irish Larvae  
 potatoes  
 Northampton 1 Stored Irish Larvae  
 potatoes  
 Robeson 3 In wool rug Larvae & pupae

Potato tuberworm, *Phthorimaea operculella*

Cigarette beetle, *Lasioderma serricorne*  
 Potato tuberworm, *Phthorimaea operculella*

Potato tuberworm, *Phthorimaea operculella*

Casemaking clothes moth, *Tinea pellionella*; blow fly,  
*Calliphora* sp.; and flesh fly, prob. *Sarcophaga*  
 sp.

Wake 2 Raisins All

Almond moth, *Cadra cautella*; and Indian meal moth,  
*Plodia interpunctella*

Wake 1 Stored soybeans Larvae

Indian meal moth, *Plodia interpunctella*

Miscellaneous

Caldwell 1 Among decaying Adults  
 newspapers

Flatworm, *Bipalium kewense*

Davidson 1 Under bricks in Adults  
 yard

Flatworm, *Bipalium kewense*

Granville 1 Assoc. with old- Adults  
 house borer injury

undet. Bethyid wasp

Guilford 1 In grass clump Adult

Wolf spider, *Lycosa* sp.

Rockingham 1 -- Larva

Puss caterpillar, *Megalopyge opercularis*

South Carolina 1 Around home Adults

Darkwinged fungus gnat, *Bradysia* sp.

Wake 1 On barn foundation ?All

undet. Entomobryid springtail

Wake 1 On tree Nymphal skin

undet. Cicada

Miscellaneous and Accidental Household

Wake 2 In home Adults

Clubionid spider, *Trachelas* sp.; and ground beetle,  
*Amara* sp.



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RECEIVED

October 4, 1974

OCT 7 1974

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

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

Raleigh, North Carolina

## CORN

MAIZE BILLBUG (Sphenophorus maidis) and SOUTHERN CORN BILLBUG (Sphenophorus callosus) - NORTH CAROLINA - A survey conducted June, 1974 in the Coastal Plain counties of North Carolina revealed that billbugs are the major economically important insects associated with seedling corn. Of the 9,250 plants examined in 38 counties, 3.3% had detectable billbug injury. Collections revealed that the southern corn billbug is the predominant species. Wireworm (Conoderus sp.) plus southern corn rootworm- (Diabrotica undecimpunctata howardi) injured plants constituted only 1.2% of the seedlings examined.

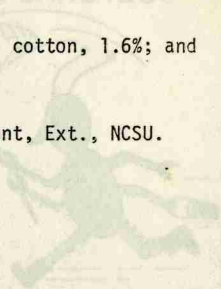
Crop rotation is very important in billbug control. Of the 178 fields examined with a known 1973 crop history, 38% had corn and 41% had soybeans.





The remainder was divided between peanuts, 6%; tobacco, 3%; cotton, 1.6%; and pasture, weeds, etc., 10%.

Survey conducted by APHIS personnel and compiled by Hunt, Ext., NCSU.



RECEIVED

October 8, 1934

TO: County Extension Agents and Other Interested Persons  
FROM: Thomas H. Hunt, Survey Entomologist  
SUBJECT: Insect Survey Report  
NORTH CAROLINA COOPERATIVE ECONOMIC INSECT SURVEY AND DETECTION  
This report is compiled by: Thomas H. Hunt, Survey Entomologist  
Raleigh, North Carolina

CORN

WATZ BILBUB (Sphenophorus watz) and SOUTHERN CORN BILBUB (Sphenophorus callosus) - NORTH CAROLINA - A survey conducted June, 1934 in the Coastal Plain counties of North Carolina revealed that bilbubs are the major economically important insects associated with seedling corn. Of the 2,350 plants examined in 38 counties, 3.3% had detectable bilbub injury. Collections revealed that the southern corn bilbub is the predominant species. Witzensia (Conoderus sp.) plus southern corn rootworm - (Diabrotica undecimpunctata howardi) injured plants constituted only 1.2% of the seedlings examined. Crop rotation is very important in bilbub control. Of the 178 fields examined with a known 1933 crop history, 38% had corn and 41% had soybeans.



*Dr. Knight*

OCT 11 1974

DEPT.

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October 11, 1974

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

CORN

CORN EARWORM (Heliothis zea) and SOUTHERN CORNSTALK BORER (Diatraea cramboides) - NORTH CAROLINA - A survey conducted June 1974 in the Coastal Plain counties of N. C. revealed that corn earworms are the major defoliators of seedling corn. Of 7,000 plants examined in 28 counties, 1% had received foliage damage from corn earworms, and 0.6% were damaged by southern cornstalk borer. A smaller percentage of the plants attacked would suffer severe damage.

Survey conducted by APHIS personnel and compiled by Hunt, Ext., NCSU.



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October 18, 1974

RECEIVED

TO: County Extension Agents and Other Interested Persons

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

OCT 18 1974

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

CORN

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - NORTH CAROLINA - A state wide fall abundance survey is underway in North Carolina. To date, 12 eastern Coastal Plain counties have been surveyed. The enclosed table gives the survey results by county. In these 12 counties 32.2% of the stalks observed were infested with 37.1 borers/100 plants and 75.1 cavities/100 plants. There were 5 fields/county (1500 plants) observed in this part of the survey.

(APHIS; Hunt, Ext.)



EUROPEAN CORN BORER FALL ABUNDANCE

SURVEY OF THE NORTH CAROLINA TIDEWATER AREA, 1974

County	% Plants Infested	Borers per 100 Plants	Counties per 100 Plants	Fields
Bertie	36.0	21.6	91.3	5
Chowan	61.6	86.2	129.4	5
Currituck	21.6	32.4	43.2	5
Hertford	44.8	67.2	129.9	5
Perquimans	41.6	20.8	91.5	5
Washington	42.4	106.0	199.3	5
Onslow	7.2	0.7	7.2	5
Pamlico	25.6	17.9	58.8	5
Craven	7.2	1.4	7.9	5
Beaufort	29.6	44.4	77.0	5
Hyde	38.4	00.0	65.3	5
Martin	30.4	9.1	54.7	5







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OCT 28 1974  
ENTOMOLOGY DEPT.

October 25, 1974

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

CORN

EUROPEAN CORN BORER (Ostrinia nubilalis) - NORTH CAROLINA - The European corn borer fall abundance survey has been completed in 17 additional Coastal Plain counties this week totaling 29 to date.

The enclosed table gives the additional results by county.

In these 17 counties 42.8% of the stalks observed were infested with 33.6 borers/100 plants and 92.2 cavities/100 plants. There were 5 fields/county (1700 plants) observed in the part of the survey. (APHIS; Hunt, Ext.)

ORNAMENTALS

TWOSTRIPED WALKINGSTICK (Anisomorpha buprestoides) - NORTH CAROLINA - Adult two-striped walkingsticks observed attacking azalea and camellia shrubs at Candor, Montgomery County. Roughly 2 adults were observed per bush. (Baxley, AP-15)



Correction:

In report of October 18, 1974, from North Carolina entitled CORN, EUROPEAN CORN BORER (Ostrinia nubilalis) change the table column entitled Counties per 100 plants to Cavities per 100 plants.

EUROPEAN CORN BORER FALL ABUNDANCE  
SURVEY OF THE NORTH CAROLINA COASTAL PLAIN, 1974

County	Borers per Infested Plant	Borers per 100 Plants	Cavities per 100 Plants
Halifax	0.5	26.4	84.5
Hoke	0.4	32.0	192.0
Bladen	1.4	62.7	85.1
Columbus	0	00.0	72.2
Robeson	1.6	92.2	195.8
Martin	0.3	9.1	54.7
Johnston	0.5	27.6	121.4
Sampson	0.9	48.9	119.7
Wayne	.6	10.6	30.0
Lenoir	.8	16.2	40.4
Wilson	.6	25.4	97.5
Nash	.7	32.5	125.3
Green	.8	32.0	88.0
Edgecombe	0.8	39.7	99.2
Pitt	0.8	36.5	95.8
Harnett	1.4	52.6	45.1
Cumberland	1.4	26.9	21.1

NOV 1 1974

ENTOMOLOGY DEPT. *Knight*

*entomology*



November 1, 1974

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

CORN

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - NORTH CAROLINA - Fall abundance survey conducted in 5 western counties reveal relatively low European corn borer populations compared to the Coastal Plain counties and the 1971 European corn borer fall abundance survey. In Yancey, Watauga, Yadkin, Alexander and Burke Counties, 19.5% of the stalks were infested compared to 45.8% in 1971. (APHIS; Hunt, Ext.)

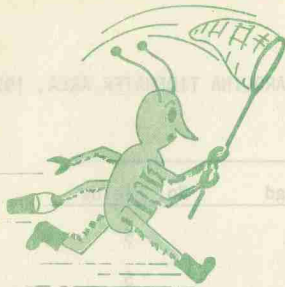
EUROPEAN CORN BORER FALL ABUNDANCE SURVEY IN NORTH CAROLINA

County	% Plants Infested		Borers Per 100 Plants		Cavities Per 100 Plants	
	1971	1974	1971	1974	1971	1974
Yancey	64.0	16.0	48.0	4.8	48.0	19.2
Watauga	30.0	11.2	-	3.4	7.0	11.2
Yadkin	30.0	26.4	-	5.3	15.0	31.7
Alexander	74.0	31.2	19.0	6.2	129.5	43.7
Burke	31.0	12.8	5.0	7.7	5.0	11.5
Avg. Infested	45.8	19.5				



NOV 8 1974

Kruft

ENTOMOLOGY DEPT.  
entomology

November 8, 1974

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

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

CORN

SOUTHERN CORNSTALK BORER (Diatraea crambidoides) - NORTH CAROLINA - A fall southern cornstalk borer damage survey conducted in the Tidewater counties reveal a low but detectable population in all but two of the counties surveyed. No damage was observed in Craven and Onslow Counties. The average infestation level in 12 counties surveyed was 4.6% of the stalks infested (5 fields per county, 25 stalks per field). See enclosed table for results of this survey.

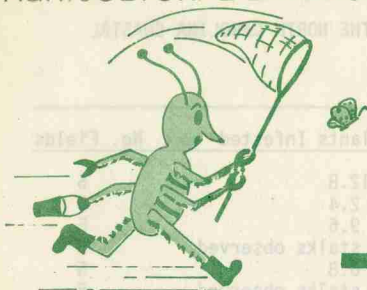




SOUTHERN CORNSTALK BORER FALL ABUNDANCE SURVEY OF NORTH CAROLINA TIDEWATER AREA, 1974

County	Percent Plants Infested	No. Fields
Hyde	4.0	5
Beaufort	4.0	5
Onslow	No infested stalks observed in survey	5
Pamlico	1.6	5
Chowan	4.0	5
Currituck	2.4	5
Perquimans	0.8	5
Washington	13.6	5
Craven	No infested stalks observed in survey	5
Pasquotank	18.0	2
Jones	5.6	5
Pender	0.8	5
Camden	No fields acceptable for survey	





RECEIVED Knight

NOV 15 1974

entomology

November 15, 1974

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

CORN

SOUTHERN CORNSTALK BORER (Diatraea crambidoides) - NORTH CAROLINA - A fall southern cornstalk borer abundance survey conducted in the Coastal Plain counties reveals a low population in 15 of 23 counties surveyed (5 fields per county, 25 stalks per field). The infestation level in the 15 counties where damage was observed averaged 6.4% of the stalks infested. See the enclosed table for results of this survey (APHIS; Hunt, Ext.).



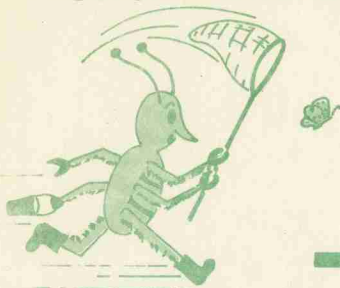
SOUTHERN CORNSTALK BORER FALL ABUNDANCE SURVEY OF THE NORTH CAROLINA COASTAL PLAIN, 1974.

County	Percent Plants Infested	No. Fields
Robeson	12.8	5
Columbus	2.4	5
Hoke	9.6	5
Bladen	No infested stalks observed	5
Martin	0.8	5
Halifax	No infested stalks observed	5
Hertford	1.6	5
Bertie	3.2	5
Johnston	20.8	5
Sampson	3.2	5
Harnett	4.0	5
Cumberland	12.8	5
Duplin	6.4	5
Northampton	12.0	5
Gates	1.6	5
Pitt	0.8	5
Edgecombe	4.0	5
Green	No infested stalks observed	5
Nash	No infested stalks observed	5
Wilson	No infested stalks observed	5
Lenoir	No infested stalks observed	5
Wayne	No infested stalks observed	5

SOUTHERN CORNSTALK BORER (DIPLOLEPSA GLAUCOPUNCTATA) - NORTH CAROLINA - FALL 1974

Fall southern cornstalk borer abundance survey conducted in the Coastal Plain counties reveals a low population in 18 of 23 counties surveyed (5 fields per county, 25 stalks per field). The infestation level in the 15 counties where damage was observed averaged 6.4% of the stalks infested. See the enclosed table for results of this survey (APRIS; Hunt, Ext.).





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NOV 22 1974  
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November 22, 1974

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

## DECIDUOUS FRUITS AND NUTS

VARIGATED CUTWORM (Peridroma saucia) - NORTH CAROLINA - Cutworms were observed August 8, 1974 feeding on apples in a 50 acre Burke County orchard. Larvae were observed on the trees and heavy grass under the trees. Collections of 10 larvae, 85 pupae and 5 adults from the orchard were identified by David Stephen, Dept. of Entomology, N. C. State University as varigated cutworms. Damage was greatest inside the crown, near the trunk, lower outer portion of the crown and in the damper areas of the orchard. Of a total of 354 apples picked, 58.4% had received cutworm injury. (Rock, Dept. of Ent.).

## ORNAMENTAL SHRUBS

WALKINGSTICK (Anisomorpha ferruginea) - NORTH CAROLINA - Approximately 1000 azaleas were damaged by walkingsticks in a Montgomery County nursery near Candor. Damage was also observed to a lesser degree on camellias and acuba. Most specimens were observed on pine trees wedging into crevices. (Baker, Ext.)







NOV 29 1974

ENTOMOLOGY DEPT.

Dr. Knight

# entomology

November 29, 1974

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

### CORN

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - NORTH CAROLINA - A statewide European corn borer fall abundance survey has been completed. Results deviate very little from a similar survey conducted in 1971.

Infestation levels ranged from 1.6% of the stalks infested in Mecklenburg County to 80% in Hoke County with all counties infested. The Coastal Plain again had the highest percentage of the stalks infested with 43.8%. However, the Tidewater area contained the highest number of borers per 100 plants with 41.4 compared to 35.2 in the Coastal Plain and 35.5 in the mountains. Stalk breakage again did not exceed 5% in any area sampled. (APHIS; Hunt, Ext.)

SOUTHWESTERN CORN BORER (*Diatraea grandiosella*) - NORTH CAROLINA - A detection survey conducted September and October in 69 counties revealed no infestations observed. (Hunt, Ext.)



Knight

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COOPERATIVE AGREEMENT  
Weekly Report \*

State North Carolina

Date December 6, 1974

RECEIVED

DEC 6 1974

ENTOMOLOGY DEPT.

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 November 29 - December 6, 1974  
was not submitted because of annual leave.

*TNH*

Thomas N. Hunt, Survey Entomologist  
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.



DEC 16 1974  
ENTOMOLOGY DEPT.  
*entomology*

December 13, 1974

TO: County 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 is compiled by: Thomas N. Hunt, Survey Entomologist *T.N.H.*  
Raleigh, NC

TOBACCO

BUDWORM (*Heliothis virescens*)- NORTH CAROLINA - Losses in 1974 on tobacco from budworms was lowest in several years. However, cost of an insecticide application was considerably higher than previous years due to increased cost of materials and labor.

	<u>\$/Acre Loss</u>		<u>Total \$ Loss</u>		<u>Cost of Control<sup>1/</sup></u>	
	<u>1973</u>	<u>1974</u>	<u>1973</u>	<u>1974</u>	<u>1973</u>	<u>1974</u>
Budworms	1.50	.75	510,000	300,000	700,000	800,000

<sup>1/</sup> Includes cost of insecticides and application on 340,000, 1973 and 400,000, 1974. (Robertson Ext.)

dbh



Knight 18 1974

ENTOMOLOGY DEPT.

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December 20, 1974

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 -

Total salvage of beetle-infested timber in North Carolina for Fiscal Year 1975 exceeded all other southeastern states. From July 1 to September 30, 18,696 MBF and 3,676 MCF<sup>1/</sup> have been salvaged from North Carolina forests.

<sup>1/</sup> MBF = Thousand board feet  
MCF = Thousand cubic feet





COOPERATIVE AGREEMENT  
Weekly Report \*

State North Carolina

Date December 20, 1974

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 - December 27  
was not submitted because of Christmas Holidays.

Thomas N. Hunt *TNH*  
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.