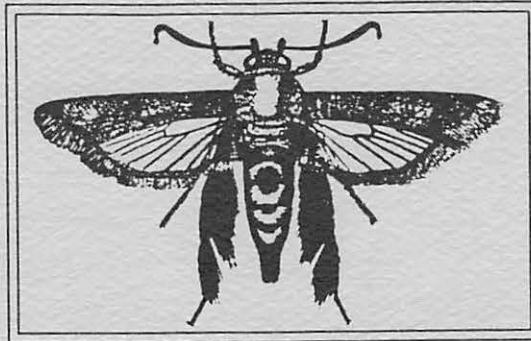


*Publication 444-112  
Revised 1990*

## **Insect Identification Laboratory**

### **Annual Report 1989**



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## INTRODUCTION

This report summarizes the activity of the Insect Identification Laboratory at Virginia Tech for 1989. The laboratory is located in 312 Price Hall. It is managed by Eric Day, Lab Specialist, F. William Ravlin, and John A. Weidhaas, Extension Entomologists, Department of Entomology.

Specimens are identified and recorded in the lab, then sent to Extension Entomologists who handle particular commodity groups for control recommendations and additional comments. All specimen data are entered into the Insect I. D. Lab computer data base on the Virginia Tech mainframe computer. The data base greatly facilitates sorting and storage of the information. Sue Rutherford is responsible for all data base management. Some of the records were sent via microcomputer to the Cooperative National Plant Pest Survey and Detection Program (USDA, APHIS, PPQ). We at Virginia Tech acknowledge support provided by this program.

Starting in 1987 the Insect I.D. Lab computer data base became available for access by county agents to check on samples being processed. Access to this program is provided through the Extension network (XNET). The data base was queried 230 times in 1989. Agents wishing to access the data base should first log on to the mainframe computer. Once logged on type CLINIC and press the return key. The program then asks a series of questions to select the proper data set for your search and compose the actual search query. This program assists agents in making identifications in their offices based on previous samples and it is also helpful in obtaining usage counts for annual VEMIS reports. A manual detailing this program was sent out to all county offices; additional copies are available from the Insect Identification Laboratory and in the October 1987 issue of the Plant Protection Newsletter (Vol. 7, No. 10).

In order to facilitate mailing insects and insect damaged specimens to the lab, local offices of the Cooperative Extension Service in Virginia are provided with Insect Identification and Diagnosis Request forms (form 444-113), alcohol vials, and mailing tubes. Specimens may also be brought directly to the lab or mailed to:

Insect Identification Laboratory  
Extension Entomology  
312 Price Hall  
VPI&SU Blacksburg, VA 24061-0319  
(703) 231-4899

Whenever possible insects are identified to the species level, but common names are used where possible because of their wide recognition.

A total of 1,877 requests were received in 1989. Ninety percent were forwarded by Extension Agents; the rest were brought or sent in directly by the general public. Identification requests from homeowners accounted for 62% of the total, 38% were from commercial growers, urban pest control operators, medical doctors, university faculty and staff, and unspecified sources. Control recommendations were requested in 76% of the cases.

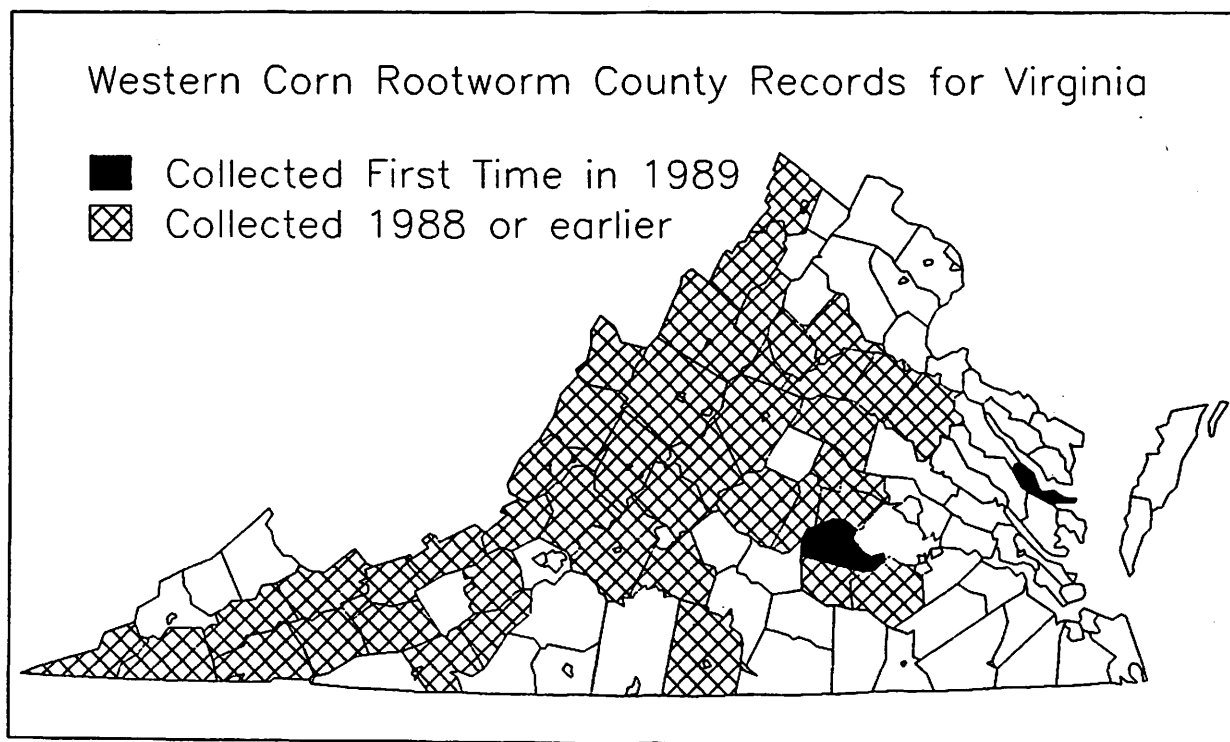
Insect Surveys conducted in 1989

**Asian Tiger Mosquito, *Aedes albopictus*:** The cities of Martinsville, Danville, and South Boston and their surrounding areas were surveyed. Tire stores and tire dumps were checked for both adult mosquitoes and larvae. No *Aedes albopictus* found.

**Western Corn Rootworm, *Diabrotica virgifera*:** Most of the counties east of Interstate 95 and east of US 301 were surveyed as well as a few central portions of the commonwealth. Fields planted to continuous corn as well as volunteer corn in soybean fields were checked for adult beetles. *Diabrotica virgifera* was found in Middlesex and Amelia counties for the first time. *D. virgifera* has already been found in much of the central and western portions of the commonwealth during surveys conducted in past years. See the Plant Protection Newsletter, Vol. 8, No. 8, September 1989.

**Corn Earworm, *Heliothis zea*:** Most of the counties east of Interstate 95 and east of US 301 were surveyed during the week of July 21st. The overall infestation level for that region was 36% of the ears of corn had a corn earworm larva present.

**Previous Surveys:** Corn Earworm, *Heliothis zea*, Survey (1974-1989); Western Corn Rootworm, *Diabrotica virgifera* (1985, 1987-89); Asian Tiger Mosquito, *Aedes albopictus* (1988-1989).



Persons providing identifications and/or control recommendations:

*Identifications and control recommendations covering most commodities preformed by:*

Mr. Eric R. Day  
Manager, Insect Identification Laboratory

*Timely and valuable identifications and/or control recommendations were also provided by:*

Dr. Donald G. Cochran  
Professor of Entomology

Cockroaches

Dr. Richard D. Fell  
Assoc. Professor of Entomology

Apiculture and Stinging Insects

Dr. Ames Herbert  
Assistant Professor

Soybeans, Small grains,  
Peanuts, and cotton

Dr. Michael Kosztarab  
Professor of Entomology

Scale Insects

Dr. John M. Luna  
Assistant Professor

Alfalfa

Dr. Douglas G. Pfeiffer  
Associate Professor

Fruit and Nuts

Dr. F. William Ravlin  
Associate Professor of Entomology

Gypsy Moths

Dr. William H. Robinson  
Professor of Entomology

Household and Structural Wood,  
Lawn and Turf, Human

Dr. Peter Schultz  
Associate Professor

Ornamentals

Dr. Paul J. Semtner  
Associate Professor

Tobacco

Dr. E. C. Turner  
Professor of Entomology

Medically Important  
Insects

Dr. John A. Weidhaas, Jr.  
Associate Professor

Ornamentals and Vegetables

Dr. Roger Youngman  
Assistant Professor

Corn, Small grains, and Livestock

Dr. Geoff Zehnder  
Assistant Professor

Commercial Vegetable Crops

The following table lists the magnitude of activities and services provided by the Insect Identification Laboratory (IIL) and the faculty and staff associated with it since 1967.

Number of Specimens Identified

Year	Identifications for Extension Agents and the Public	Identifications from Exotic Pest Surveys, Numbers of Traps Examined	Identified by U.S. National Museum through The IIL
1967	318	a	a
1968	984	a	a
1969	1104	a	a
1970	1245	a	a
1971	1276	a	100b
1972	970	a	516
1973	1124	a	184
1974	1264	a	316
1975	1430	a	160
1976	1437	a	223
1977	1365	a	282
1978	1351	a	89
1979	1770	a	120
1980	1527	a	23
1981	2028	a	89
1982	2004	a	100
1983	1815	a	36
1984	1745	a	45
1985	1730	a	20
1986	1537	62	16
1987	1731	0	32
1988	1719	69	15
1989	1877	145	10
<b>TOTAL</b>	<b>33351</b>	<b>276</b>	<b>2376</b>

a Service not previously provided.

b Estimated

SPECIMENS RECEIVED BY THE INSECT IDENTIFICATION LABORATORY IN 1989

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	% OF TOTAL
Ornamentals, Shade trees	23	15	20	47	94	118	136	136	101	50	24	7	771	41.1%
Household	22	18	28	43	33	56	34	14	27	50	14	5	344	18.3%
General	1	1	4	6	2	10	23	18	15	8	8	4	100	5.3%
Veg.   Field crops	2	0	4	8	18	16	30	14	14	9	10	0	125	6.7%
Fruits and nuts	5	4	7	5	9	35	23	21	8	3	2	0	122	6.5%
Lawns and turf	4	1	2	5	0	3	1	8	10	7	1	0	42	2.2%
Human	2	0	3	3	9	19	18	17	13	5	2	0	91	4.8%
Animal	0	1	1	1	0	2	1	4	0	1	0	1	12	0.6%
Structural	3	5	4	22	15	14	10	4	5	5	4	0	91	4.8%
Apicultural	0	0	0	0	2	0	0	0	0	0	0	3	5	0.3%
Stored Products	12	7	19	12	12	11	15	33	21	13	14	5	174	9.3%
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	74	52	92	152	194	284	291	269	214	151	79	25	1877	
% OF TOTAL	3.9%	2.8%	4.9%	8.1%	10.3%	15.1%	15.5%	14.3%	11.4%	8.0%	4.2%	1.3%		

Ornamental	INSECTS RECEIVED												TOT
	J	F	M	A	M	J	J	A	S	O	N	D	
No Insects Found	1	1	2	7	5	5	5	11	2	1	2	0	42
Spruce Mite	1	2	1	3	1	2	3	5	2	3	1	2	26
Azalea Lace Bug	0	0	0	1	1	0	0	5	2	5	2	0	16
Hickory Leaf Stem Gall	0	0	0	0	7	6	0	0	1	0	0	0	14
Twospotted Spider Mite	0	0	0	2	2	1	5	1	1	0	0	0	12
Aphids	1	0	1	1	0	3	2	1	1	0	1	0	11
Brown Soft Scale	3	2	1	0	1	0	1	1	2	0	0	0	11
Japanese Beetle	0	0	0	0	1	0	3	3	2	2	0	0	11
Not An Insect	0	0	0	0	0	3	1	3	2	0	2	0	11
Walnut Caterpillar	0	0	0	0	0	0	6	4	1	0	0	0	11
Flower Thrips	0	0	0	0	0	4	5	1	0	0	0	0	10
Oak Lace Bug	0	0	0	0	0	2	2	6	0	0	0	0	10
Thrips	0	0	0	1	1	2	2	3	1	0	0	0	10
Boxwood Leafminer	0	0	2	2	1	3	0	0	0	1	0	0	9
Buck Moth	0	0	0	0	2	5	2	0	0	0	0	0	9
Euonymus Scale	2	0	0	0	0	0	3	0	4	0	0	0	9
Rhododendron Lace Bug	0	0	1	0	5	1	0	0	2	0	0	0	9
Roundheaded Borers	2	1	0	0	1	1	1	1	1	0	1	0	9
Poplar Tentmaker	0	0	0	0	0	0	1	4	3	0	0	0	8
Spider Mites	1	0	0	1	1	3	0	0	2	0	0	0	8
Boxwood Mite	1	0	0	2	0	1	1	1	1	0	0	0	7
Catalpa Sphinx	0	0	0	0	0	0	4	3	0	0	0	0	7
Oak Skeletonizer	0	0	0	0	0	0	0	3	1	3	0	0	7
Obscure Scale	0	0	0	0	1	0	1	1	1	2	1	0	7
Pine Bark Adelgid	1	0	0	1	0	2	1	0	0	1	1	0	7
White Pine Aphid	1	0	0	0	0	0	0	0	0	3	3	0	7
Bark Beetles	1	0	0	1	0	1	1	1	1	0	0	0	6
Black Vine Weevil	0	1	1	1	0	0	1	1	0	1	0	0	6
Boxwood Psyllid	0	0	0	1	2	1	1	0	1	0	0	0	6
Cottony Camellia Scale	0	0	1	0	3	2	0	0	0	0	0	0	6
Fall Webworm	0	0	0	0	0	1	1	1	3	0	0	0	6
Sooty Mold	0	0	1	1	0	0	0	3	0	1	0	0	6
Allegheny Mound Ant	0	0	0	0	1	1	2	1	0	0	0	0	5
Bronze Birch Borer	0	0	0	0	0	0	5	0	0	0	0	0	5
Could Not Diagnose	0	0	0	0	1	1	2	0	1	0	0	0	5
Eastern Tent Caterpillar	0	0	0	0	4	1	0	0	0	0	0	0	5
Elm Leaf Beetle	0	0	1	0	0	4	0	0	0	0	0	0	5
European Hornet	0	0	0	0	0	0	0	1	2	1	1	0	5
Gloomy Scale	1	0	0	0	2	0	1	1	0	0	0	0	5



Ornamental

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Hemispherical Scale	0	1	0	0	0	0	1	0	0	0	3	0	5
Leaf Beetles	0	0	0	0	0	1	2	0	2	0	0	0	5
Northern Pine Weevil	0	0	0	0	0	0	3	1	0	1	0	0	5
Orangestriped Oakworm	0	0	0	0	0	0	0	1	4	0	0	0	5
Tuliptree Scale	0	0	0	0	0	2	0	0	1	2	0	0	5
Yellownecked Caterpillar	0	0	0	0	0	0	1	3	1	0	0	0	5
Barberry Webworm	0	0	0	0	0	0	0	0	2	2	0	0	4
Caterpillars	0	0	0	0	2	0	1	1	0	0	0	0	4
Eastern Pine Looper	0	0	1	1	1	1	0	0	0	0	0	0	4
Iris Borer	0	0	0	0	0	2	1	0	0	1	0	0	4
Leafhoppers	0	0	0	0	0	0	3	1	0	0	0	0	4
Leafrollers	0	0	0	0	0	1	3	0	0	0	0	0	4
Locust Leafminer	0	0	0	0	0	0	3	1	0	0	0	0	4
Mimosa Webworm	0	0	0	0	0	0	2	1	1	0	0	0	4
Oak Lecanium	0	0	0	0	2	1	0	0	1	0	0	0	4
Oystershell Scale	0	0	1	1	1	1	0	0	0	0	0	0	4
Pine Needle Scale	0	0	0	1	0	0	0	2	0	1	0	0	4
Pinkstriped Oakworm	0	0	0	0	0	0	2	2	0	0	0	0	4
Redhumped Caterpillar	0	0	0	0	0	0	1	3	0	0	0	0	4
Sycamore Lace Bug	0	0	0	0	0	0	1	2	1	0	0	0	4
Tussock Moths	0	0	0	0	0	0	2	1	1	0	0	0	4
Wasp Galls	0	0	0	0	1	0	1	0	2	0	0	0	4
Wheel Bug	0	0	0	0	3	0	1	0	0	0	0	0	4
Wool Sower Gall	0	0	0	0	1	3	0	0	0	0	0	0	4

RECEIVED 3 TIMES

Darkwinged Fungus Gnats  
 Greenstriped Mapleworm  
 Hackberry Leafslug  
 Hickory Horned Devil  
 Maple Bladdergall  
 Melon Aphid  
 Oak Apple Galls  
 Puss Caterpillar  
 Termites

Dogwood Sawfly  
 Gypsy Moth  
 Hemlock Woolly Adelgid  
 Horned Oak Gall  
 Mealybugs  
 Nantucket Pine Tip Moth  
 Oak Button Galls  
 Spiny Elm Caterpillar  
 Woolly Alder Aphid

RECEIVED 2 TIMES

Aphidlions  
 Asiatic Oak Weevil  
 Azalea Caterpillar  
 Bagworm  
 Birch Leafminer  
 Boxwood Webworm  
 Cecropia Moth  
 Cottony Maple Leaf Scale  
 Crape Myrtle Aphid  
 Eastern Yellowjacket  
 European Earwig  
 Furlined Plant Bug  
 Gall Mites  
 Gregarious Oak Leafminer  
 Holly Leafminer  
 Juniper Scale

Ash Plant Bug  
 Azalea Bark Scale  
 Azalea Leafminer  
 Beech Leaf-tier  
 Boxelder Bug  
 Bumblebee Moth  
 Cooley Spruce Gall Adelgid  
 Cottony Maple Scale  
 Eastern Spruce Gall Adelgid  
 Eriophyid Mites  
 Fir Coneworm  
 Gall Adelgids  
 Green Peach Aphid  
 Hawthorn Lace Bug  
 Io Moth  
 Juniper Webworm

Ornamental

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Katydid  
Maple Leafspot Gall  
Milkweed Moth  
Pales Weevil  
Pine Webworm  
Redheaded Pine Sawfly  
Sassafras Weevil  
Sourgum Scurfy Scale  
Sycamore Plant Bug  
Twig Girdler  
Underwing Moths  
Viceroy  
Woolly Hawthorn Aphid

Lady Beetles  
Maple Petiole Borer  
Millipedes  
Pine Spittlebug  
Psocids  
Rhododendron Flea Beetle  
Solitary Oak Leafminer  
Stalk Borer  
Tiger Moths  
Twig Pruner  
Vein Pocket Gall  
Woolly Aphid  
Yucca Plant Bug

RECEIVED 1 TIME

Ambrosia Beetles  
Ants  
Azalea Stem Borer  
Basswood Leafminer  
Black Cherry Aphid  
Blackheaded Pine Sawfly  
Boisduvals Scale  
Boxelder Twig Borer  
Calico Scale  
Carpenter Ants  
Carriion Beetles  
Checkered Beetles  
Darkling Beetles  
Dusky Birch Sawfly  
Elm Cockscomb Gall  
Elongate Hemlock Scale  
False Spider Mites  
Flies  
Gall Midges  
Geometrid Moths  
Globular Hickory Leaf Gall  
Green June Beetle  
Hemlock Scale  
Honeylocust Plant Bug  
Imperial Moth  
June Beetles  
Larger Elm Leaf Beetle  
Leaf Skeletonizers  
Longhorned Beetles  
Magnolia Scale  
Midge Galls  
Moths  
Notodontid Moths  
Oak Roly Poly Gall  
Paddle Caterpillar  
Parasitic Wasps  
Phlox Plant Bug  
Pine Sawflies  
Pine Tip Moths  
Pinhole Borer  
Polyphemus Moth  
Privet Thrips  
Red Imported Fire Ant  
Rhinoceros Beetle  
Rose Chafer  
Roseslug  
Saltmarsh Caterpillar  
Sap Beetles  
Scale Insects  
Seed Bugs  
Sharpshooter  
Skippers  
Sod Webworms  
Southern Corn Rootworm  
Sphecid Wasps  
Spiders  
Spittlebugs  
Strawberry Root Weevil  
Tea Scale  
Twospotted Stink Bug  
Webworms  
Western Flower Thrips  
White Pine Weevil  
Whitemarked Tussock Moth  
Woolly Larch Aphid

Anthomyiid Flies  
Arborvitae Leafminer  
Baltimore  
Birch Skeletonizer  
Black Scale  
Bogus Yucca Moth  
Borers  
Brown Prionid  
Carolina Mantid  
Carpenterworm  
Celery Leaf-tier  
Click Beetles  
Dogwood Clubgall Midge  
Earwigs  
Elm Sawfly  
European Corn Borer  
Flatid Planthoppers  
Forest Tent Caterpillar  
Garden Webworm  
Gladiolus Thrips  
Green Fruitworm  
Ground Beetles  
Hickory Tussock Moth  
Hoplia Beetles  
Imported Willow Leaf Beetle  
Lace Bugs  
Latania Scale  
Leaffooted Bugs  
Longlegged Flies  
Maple Erineum Gall  
Miscanthus Mealybug  
Nigra Scale  
Oak Eriococcid  
Obliquebanded Leafroller  
Pandora Sphinx  
Pecan Leafroll Mite  
Pin Oak Sawfly  
Pine Sawyers  
Pine Tortoise Scale  
Planthoppers  
Potter Wasps  
Question Mark  
Redheaded Ash Borer  
Root Weevil  
Rose Leaf Beetle  
Saddled Prominent  
San Jose Scale  
Sawflies  
Scoliid Wasps  
Seedcorn Maggot  
Silverspotted Skipper  
Slugs  
Soldier Beetles  
Southern Red Mite  
Spicebush Swallowtail  
Spiny Elm Sawfly  
Stink Bugs  
Sycamore Leafminer  
Treehoppers  
Vellida Lappet Moth  
Wedge-Shaped Beetles  
White Peach Scale  
Whiteflies  
Wood Roaches  
Woolly Oak Gall

Household	INSECTS RECEIVED												TOT
	J	F	M	A	M	J	J	A	S	O	N	D	
Soldier Beetles	0	0	0	0	0	0	0	0	7	24	1	0	32
Elm Leaf Beetle	2	0	4	11	3	1	0	0	1	0	0	0	22
Millipedes	2	2	1	2	1	1	2	3	3	1	1	0	19
Wood Roaches	0	0	0	4	1	5	1	0	1	1	0	0	13
Larger Yellow Ant	1	0	3	3	5	0	0	0	0	0	0	0	12
Pavement Ant	0	0	1	1	3	5	1	0	0	0	1	0	12
Moth Flies	0	0	1	0	1	2	0	0	1	1	2	0	8
Earwigs	0	1	0	0	0	4	2	0	0	0	0	0	7
Tanbark Borer	0	0	1	1	3	1	1	0	0	0	0	0	7
Carpenter Ants	0	0	1	3	0	1	1	0	0	0	0	0	6
Fungus Gnats	0	0	1	0	0	1	3	0	0	1	0	0	6
Blow Flies	0	0	0	1	0	0	1	0	2	0	1	0	5
Clover Mite	2	0	0	1	2	0	0	0	0	0	0	0	5
No Insects Found	3	0	0	0	0	1	0	0	0	0	0	1	5
Small Winter Stoneflies	3	1	1	0	0	0	0	0	0	0	0	0	5
Smaller Yellow Ant	2	1	0	0	0	0	0	1	0	1	0	0	5
Springtails	0	0	2	0	0	1	0	0	0	2	0	0	5
Wolf Spiders	0	0	0	0	0	1	0	1	0	3	0	0	5
Bark Beetles	0	0	0	0	1	1	0	0	0	1	1	0	4
Camel Crickets	0	0	0	0	0	0	0	1	2	0	0	1	4
European Hornet	0	0	0	0	1	1	0	1	0	0	1	0	4
Formica Ants	0	0	0	1	1	1	1	0	0	0	0	0	4
Leafcutting Bees	0	0	0	2	0	1	0	0	1	0	0	0	4
Longhorned Beetles	0	1	0	0	2	0	1	0	0	0	0	0	4
Not An Insect	1	0	0	1	0	0	0	1	0	0	0	1	4
Paper Wasps	0	2	0	0	1	0	0	0	1	0	0	0	4

RECEIVED 3 TIMES

Booklice  
 German Cockroach  
 Honey Bee  
 Oriental Cockroach

Boxelder Bug  
 Ground Beetles  
 March Flies  
 Sowbugs

RECEIVED 2 TIMES

Asiatic Oak Weevil  
 Burrower Bugs  
 Caterpillars  
 Click Beetles  
 Darkling Beetles  
 European Earwig  
 Hoplia Beetles  
 House Centipede  
 Parasitic Wasps  
 Planthoppers  
 Small Dung Flies  
 Sphecid Wasps  
 Vinegar Flies

Bird Mites  
 Carolina Wolf Spider  
 Centipedes  
 Crazy Ant  
 Dobsonfly  
 Flies  
 Horsehair Worms  
 Mayflies  
 Pharaoh Ant  
 Rove Beetles  
 Softwinged Flower Beetles  
 Spiders  
 Yellow Ants

INSECTS RECEIVED

Household

RECEIVED 1 TIME

American Cockroach	Andrenid Bees
Antlike Flower Beetles	Backswimmers
Banded Hickory Borer	Bed Bug
Bigheaded Ant	Black Carpenter Ant
Blister Beetles	Branch And Twig Borers
Brown Lacewings	Buck Moth
Buprestid Beetle	Bush Cricket
Carpet Beetles	Chestnut Weevils
Cicadas	Clover Hayworm
Comblawed Spiders	Cornfield Ant
Crane Flies	Crematogaster Ants
Crickets	Darkwinged Fungus Gnats
Dixid Midges	Dung Beetles
Eastern Yellowjacket	Ensign Wasps
Flea Beetles	Fleas
Flesh Fly	German Yellowjacket
Green Bottle Fly	Hister Beetles
House Fly	Insect Eggs
Lady Beetles	Lesser Mealworm
Locust Leafminer	Midges
Minute Brown Scavenger Beetles	Myrmica Ant
Painted Hickory Borer	Plasterer Bees
Psocids	Red Carpenter Ant
Rustic Borer	Scarab Beetles
Solitary Bees	Spider Wasps
Spotted-Winged Grain Psocid	Stink Bugs
Stoneflies	Threadwaisted Wasps
Velvet Ants	Window Flies
Winter Stoneflies	

INSECTS RECEIVED

General

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Eastern Hercules Beetle	0	0	0	0	0	0	3	2	0	0	0	0	5
Parasitic Wasps	0	0	0	1	0	0	0	1	0	0	1	1	4

RECEIVED 3 TIMES

Hickory Horned Devil                      Orb Weavers

RECEIVED 2 TIMES

Bark Beetles	Bumblebee Moth
Glowworms	Imperial Moth
Painted Hickory Borer	Rhinoceros Beetle
Sawflies	Seed Bugs
Sphinx Moths	Tiger Moths
Tussock Moths	Velvet Ants

RECEIVED 1 TIME

Allegheny Mound Ant	American Dagger Moth
Andrenid Bees	Assassin Bugs
Beautiful Woodnymph	Broadnecked Root Borer
Buck Moth	Camel Crickets
Carolina Mantid	Carolina Wolf Spider
Caterpillars	Chestnut Weevils
Crab Spiders	Crane Flies
Cuckoo Wasps	Dung Beetles
Earwigs	Eastern Tent Caterpillar
European Hornet	False Potato Beetle
Fungus Gnats	Giant Water Scavenger Beetle
Ground Beetles	Hawaiian Beet Webworm Moth
Horntails	Horsehair Worms
Ichneumon Wasps	Io Moth
Ivorymarked Beetle	Jumping Spiders
June Beetles	Leaf Beetles
Luna Moth	March Flies
Milkweed Moth	Millipedes
Mud-Dauber Wasps	Noctuid Moths
Owflies	Polyphemus Moth
Pseudoscorpions	Psocids
Pyralid Moths	Ribbonworm

INSECTS RECEIVED

General

Rosy Maple Moth	Saltmarsh Caterpillar
Slug Caterpillar	Smartweed Caterpillar
Spiders	Springtails
Stink Bugs	Sweat Bees
Threadwaisted Wasps	Tiger Swallowtail
Trap Door Spider	Treehoppers
Underwing Moths	Weevils
Whitelined Sphinx	Wolf Spiders
Wood Roaches	

INSECTS RECEIVED

Veg. | Field crops

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
No Insects Found	0	0	0	1	0	1	3	1	0	1	0	0	7
Flea Beetles	0	0	1	0	1	0	2	1	0	0	0	0	5
Thrips	0	0	0	0	0	2	1	0	2	0	0	0	5
Potato Tuberworm	0	0	0	0	0	0	0	0	1	2	1	0	4
Seedcorn Maggot	0	0	0	1	3	0	0	0	0	0	0	0	4
Stink Bugs	0	0	0	1	0	0	0	2	1	0	0	0	4
Threecornered Alfalfa Hopper	0	0	0	0	0	0	0	0	0	0	4	0	4
Twospotted Spider Mite	0	0	0	0	0	0	4	0	0	0	0	0	4

RECEIVED 3 TIMES

Clover Root Curculio	Dingy Cutworm
Pea Aphid	Potato Leafhopper
Soldier Beetles	Spider Mites
Tomato Hornworm	Western Corn Rootworm

RECEIVED 2 TIMES

Armyworm	Fall Armyworm
Harlequin Bug	Hickory Horned Devil
Meadow Spittlebug	Sap Beetles
Slugs	Striped Cucumber Beetle
Wireworms	

RECEIVED 1 TIME

Aeolus Wireworms	Alfalfa Weevil
Alfalfa Weevil Parasite	Aphids
Asiatic Garden Beetle	Asparagus Beetle
Bean Root Aphid	Blister Beetles
Cabbage Aphid	Cabbage Maggot
Caterpillars	Cereal Leaf Beetle
Conoderus Wireworms	Corn Leaf Aphid
Corn Rootworms	Cornfield Ant
Cutworms	Earwigs
European Corn Borer	Fourlined Plant Bug
Gall Midges	Grain Aphid
Grape Colaspis	Grasshoppers
Green Peach Aphid	Greenbug
Ground Beetles	Lady Beetles
Melanotus Wireworms	Melon Aphid
Millipedes	Northern Corn Rootworm
Painted Lady	Parasitic Wasps
Pickleworm	Rove Beetles
Saddleback Caterpillar	Saltmarsh Caterpillar
Sawflies	Southern Corn Rootworm
Stalk Borer	Tarnished Plant Bug
Tobacco Hornworm	Tobacco Wireworm
White Grubs	Woollybears

Fruits and nuts	INSECTS RECEIVED												TOT
	J	F	M	A	M	J	J	A	S	O	N	D	
Eastern Tent Caterpillar	0	2	2	1	0	4	3	0	1	0	1	0	14
Plum Curculio	0	0	0	0	2	7	1	2	0	1	0	0	13
No Insects Found	1	0	1	0	0	4	4	2	0	0	0	0	12
San Jose Scale	2	1	2	0	0	2	0	1	0	1	0	0	9

RECEIVED 3 TIMES

Aphids	Blackberry Psyllid
Grape Phylloxera	Pecan Leafroll Mite
Spider Mites	Twospotted Spider Mite
Wheel Bug	Woolly Apple Aphid

RECEIVED 2 TIMES

Codling Moth	Grape Leafroller
Grape Tomato Gall	Japanese Beetle
Pear Psylla	Sap Beetles
Stink Bugs	Syrphid Flies
Walnut Caterpillar	

RECEIVED 1 TIME

Apple Aphid	Apple Maggot
Bark Beetles	Beetle
Blueberry Stem Gall	Branch And Twig Borers
Carolina Mantid	European Hornet
European Red Mite	Gall Mites
Grapevine Aphid	Hickory Sawfly
Inch Worm	Longhorned Leaf Beetle
March Flies	Not An Insect
Nymphalid Butterfly	Oriental Fruit Moth
Pecan Catocala	Plant Bugs
Psyllids	Rednecked Cane Borer
Roundheaded Appletree Borer	Saltmarsh Caterpillar
Spittlebugs	Strawberry Root Weevil
Tarnished Plant Bug	Thrips
Trumpet Leafminers	Tussock Moths
Twig Pruner	Underwing Moths

Lawns and turf	INSECTS RECEIVED												TOT
	J	F	M	A	M	J	J	A	S	O	N	D	
Green June Beetle	1	0	0	0	0	0	0	0	5	2	0	0	8
White Grubs	0	0	0	2	0	0	0	1	1	0	1	0	5
Scoliid Wasps	0	0	0	0	0	0	0	4	0	0	0	0	4

RECEIVED 2 TIMES

Crane Flies	Fungus Gnats
Glowworms	June Beetles
Millipedes	No Insects Found
Plasterer Bees	

RECEIVED 1 TIME

Aphids	Aphodian Dung Beetles
Black Turfgrass Ataenius	Cicada Killer
Clover Mite	Frit Flies
Japanese Beetle	Sod Webworms
Sowbugs	Springtails
Tiphid Wasps	

Human	INSECTS RECEIVED												
	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Lone Star Tick	0	0	0	0	1	8	3	11	10	0	0	0	33
Thrips	0	0	0	0	0	5	1	1	0	0	0	0	7
Brown Dog Tick	0	0	1	1	0	0	1	1	0	0	0	0	4
Buck Moth	0	0	0	0	1	0	3	0	0	0	0	0	4
No Insects Found	1	0	1	1	1	0	0	0	0	0	0	0	4

RECEIVED 3 TIMES

American Dog Tick                      Head Louse

RECEIVED 2 TIMES

Bird Mites                                      Black Flies  
 Black Widow Spider                      Ticks  
 Velvet Ants                                      Wheel Bug

RECEIVED 1 TIME

Assassin Bugs	Bat Bugs
Bed Bug	Booklice
Bumble Bees	Crab Spiders
Horse Flies	Ixodes Tick
March Flies	Mosquitoes
Not An Insect	Plant Bugs
Plasterer Bees	Ponera Ants
Puss Caterpillar	Saddleback Caterpillar
Secondary Screworm Fly	Spiders
Springtails	Stink Bugs
Vinegar Flies	

Animal	INSECTS RECEIVED												
	J	F	M	A	M	J	J	A	S	O	N	D	TOT
RECEIVED 2 TIMES													
Cat Flea													Dark Mealworm
Lesser Mealworm													
RECEIVED 1 TIME													
Blow Flies													Brown Dog Tick
Eye Gnats													Fleas
Ixodes Tick													Springtails

Structural	INSECTS RECEIVED												
	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Carpenter Ants	0	4	2	7	5	7	4	3	2	3	0	0	37
Eastern Subterranean Termite	0	0	2	12	7	2	1	0	1	0	1	0	26
Old House Borer	2	0	0	1	0	1	4	0	0	0	2	0	10
Powder Post Beetles	1	0	0	0	0	1	0	0	1	1	1	0	5
Carpenter Bee	0	0	0	1	2	1	0	0	0	0	0	0	4

Structural  
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INSECTS RECEIVED  
RECEIVED 3 TIMES

Crematogaster Ants

RECEIVED 1 TIME

Anobiid Powder Post Beetles      Branch And Twig Borers  
Drywood Termites                      False Powderpost Beetles  
No Insects Found                      Pavement Ant

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Apicultural  
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INSECTS RECEIVED  
RECEIVED 3 TIMES

Honey Bee Tracheal Mite

RECEIVED 2 TIMES

Nosema Infection

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Stored Products  
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INSECTS RECEIVED  
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	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Indianmeal Moth	1	3	3	4	3	3	3	1	6	2	2	2	33
Carpet Beetles	2	1	2	0	2	5	1	5	4	4	4	2	32
Foreign Grain Beetle	0	1	1	0	0	0	3	16	2	1	0	0	24
Sawtoothed Grain Beetle	3	1	2	0	0	0	0	0	0	1	1	0	8
Drugstore Beetle	0	0	2	0	0	1	2	0	1	0	1	0	7
Grain Mite	0	0	0	0	0	0	2	4	1	0	0	0	7
Rice Weevil	0	0	0	1	0	0	1	0	1	1	1	1	6
Black Carpet Beetle	1	0	0	0	3	0	0	0	1	0	0	0	5
Cigarette Beetle	0	0	0	0	0	0	1	0	3	0	1	0	5
Red Flour Beetle	0	0	0	1	0	0	1	0	0	2	1	0	5
Angoumois Grain Moth	0	0	1	0	1	0	1	1	0	0	0	0	4
Lesser Mealworm	1	1	1	0	0	0	0	1	0	0	0	0	4

RECEIVED 3 TIMES

Humpbacked Flies                      Meal Moth  
Varied Carpet Beetle

RECEIVED 2 TIMES

Casemaking Clothes Moth              Clothes Moths  
Murkymeal Moth                          Small Eyed Flour Beetle  
Yellow Mealworm

RECEIVED 1 TIME

Booklice                                      Cadelle  
Clover Hayworm                              Confused Flour Beetle  
Corn Sap Beetle                              Hairy Fungus Beetle  
Larder Beetle                                  Lesser Grain Borer  
Mealworm                                      Moth Flies  
No Insects Found                              Plaster Bagworm  
Silken Fungus Beetles                        Silverfish  
Squarenecked Grain Beetle



COUNTY SUMMARY

COUNTY	SPECIMENS
Accomack	3
Albemarle	42
Alexandria(IC)	4
Alleghany	16
Amelia	13
Amherst	11
Appomattox	17
Arlington	37
Augusta	58
Bath	11
Bedford	13
Bland	4
Botetourt	12
Brunswick	6
Buchanan	2
Buckingham	5
Campbell	9
Caroline	12
Carroll	22
Charles City	17
Charlotte	11
Chesapeake(IC)	7
Chesterfield	32
Clarke	13
Craig	9
Culpeper	17
Cumberland	3
Danville(IC)	29
Dickenson	8
Dinwiddie	14
Essex	6
Fairfax	8
Fauquier	23
Floyd	13
Fluvanna	11
Franklin	25
Frederick	35
Giles	8
Gloucester	8
Goochland	4
Grayson	4
Greene	6
Greensville	5
Halifax	5
Hampton(IC)	27
Hanover	73
Henrico	22
Henry	34
Highland	17
Isle of Wight	14
James City	56
King and Queen	8
King George	12
King William	3
Lancaster	16
Lee	14
Loudoun	27
Louisa	5
Lunenburg	17
Lynchburg(IC)	45
Madison	32
Mathews	27
Mecklenberg	6
Middlesex	5
Montgomery	177
Nelson	7
New Kent	11
Newport News(IC)	31
Norfolk(IC)	2
Northampton	0
Northumberland	31
Nottoway	13
Orange	32
Page	45
Patrick	9
Petersburg(IC)	4
Pittsylvania	6
Powhatan	9
Prince Edward	16
Prince George	23
Prince William	58
Pulaski	6

COUNTY SUMMARY (CONTINUED)

COUNTY	SPECIMENS
Rappahannock	17
Richmond	8
Richmond(IC)	2
Roanoke	11
Roanoke(IC)	15
Rockbridge	13
Rockingham	53
Russell	4
Scott	4
Shenandoah	12
Smyth	5
Southampton	0
Spotsylvania	4
Stafford	5
Suffolk(IC)	9
Surry	5
Sussex	3
Tazewell	21
Virginia Beach(IC)	15
Warren	28
Washington	11
Westmoreland	26
Wise	6
Wythe	17
York	25
<b>Total</b>	<b>1877</b>

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Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, and September 30, 1977, in cooperation with the U.S. Department of Agriculture. James F. Johnson, Acting Director, Virginia Cooperative Extension Service, and Acting Vice Provost for Extension, Virginia Polytechnic Institute and State University, Blacksburg, Virginia; Clinton V. Turner, Administrator, 1890 Extension Program, Virginia State University, Petersburg, Virginia.