Insect Identification Laboratory Annual Report
1993

Eric R. Day, Manager
Insect Identification Laboratory
Entomology Department
Virginia Tech
IDLAB@VTVM1.CC.VT.EDU

Posting Date: March 1994
Path: VCE Subject Matter/Entomology
(Approximate printed length=26 pages/Courier-12 pitch)
****

****

Best to print in a Courier type font, size 8-10

****

ID Lab Publication
Revised 1994

Insect Identification Laboratory

Annual Report 1993

Eric R. Day

F. William Ravlin

Department of Entomology

College of Agriculture and Life Sciences

Virginia Cooperative Extension

Virginia Polytechnic Institute and State University

INTRODUCTION

This report summarizes the activity of the Insect Identification Laboratory at Virginia Tech for 1993. The laboratory is located in 312 Price Hall. It is managed by Eric Day, Lab Specialist, and F. William Ravlin, Extension Entomologist, Department of Entomology.

Specimens are identified and recorded in the lab, then sent for control recommendations and additional comments to Extension Entomologists who handle particular commodity groups. 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. 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 approximately 200 times in 1993. 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 their search and compose the actual search query. This program assists agents in making identifications in their offices based on previous samples and it also is helpful in obtaining usage counts for annual reports. A manual detailing this program was sent to all county offices. Additional copies are available from the Insect Identification Laboratory. Starting in 1994 the data base will be on a personal computer in the IIL, data and information on how to use it will be available later in the year.

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

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

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

A total of 1,642 requests were received in 1993. The requests came from the following categories:

County Extension Agents	86%
Virginia Dept. of Agriculture and Consumer Serv.	.5%
VPI Experiment Stations	>1%
VPI Entomology Department	1%
Walk-in (General Public)	10%
Mail-in (General Public)	2.5%

Identification requests from homeowners accounted for 70 percent of the total, 30 percent were from commercial growers and farmers, urban pest control operators, physicians, and unspecified sources. Control recommendations were requested in 80 percent of the cases.

Insect Surveys conducted in 1993

Asian Tiger Mosquito, Aedes albopictus: Tire stores and tire dumps were surveyed. The total number of four counties with confirmed populations remains the same as 1992. These counties include Nottoway, Chesterfield and the cities of Virginia Beach and Richmond.

Western Corn Rootworm, Diabrotica virgifera: Most of the counties east of I-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 Gloucester County for the first time during the annual corn earworm survey. In 1992, D. virgifera was also found for the first time in Stafford and Richmond Counties by Michael Lachance, Grayson County by Jimmy Osborne, Franklin County by Ken Wooden, and in Accomack County by Jack Speese. Accomack County is the most eastern county in Virginia. No new records for 1993 were found. The western corn rootworm has already been found in much of the central and western portions of the commonwealth during surveys conducted in past years. See R. R. Youngman and E. R. Day. 1993. Incidence of Western Corn Rootworm Beetles (Coleoptera: Chrysomelidae) on Corn in Virginia from 1987 to 1992. J. of Entomological Science, Vol. 28, No. 1 (1993). pp. 136-141.

Corn Earworm, Heliocoverpa zea: Most of the counties east of I-95 and east of US 301 were surveyed during the week of July 21st. In that region about 43.6 percent of the ears of corn had at

least one corn earworm larva present. This is a very high state average. Corn Earworm adults leave corn and fly to soybeans to lay eggs. Corn earworm larvae damage the pods on soybeans. A low state average for corn indicates that soybeans will be at low risk for damage. See Pest Management Report, Vol. 9, No. 6. Assisting in the survey were: Ames Herbert and Mike Arrington (VPI&SU, Tidewater), John Speese III (VPI&SU, Eastern Shore), Whit Morris, (Area IPM Agent, Northern Neck).

Apple Ermine Moth: 26 pheromone baited sticky traps from thirteen counties were checked for the exotic apple ermine moth, Yponomeuta malinellus. No exotic or suspect moths found.

Cherry Bark Tortrix: 30 pheromone baited sticky traps from thirteen counties were checked for the exotic cherry bark tortrix moth, Enarmonia formosana. No exotic or suspect moths found.

Pear Leaf Blister Moth: 24 pheromone baited sticky traps from twelve counties were checked for the exotic pear leaf blister moth. No exotic or suspect moths found.

Pine Shoot Beetle: Christmas tree plantations were surveyed in Henrico and Bedford counties for the exotic pine shoot beetle, Tomicus piniperda. No exotic or suspect beetles were found.

Previous Surveys: Corn Earworm, Heliocoverpa zea, Survey (1974-1993); Western Corn Rootworm, Diabrotica virgifera (1985, 1987-93); Asian Tiger Mosquito, Aedes albopictus (1988-1992); Pear Thrips (1990-92)

Persons providing identifications and/or control recommendations:

Identifications and control recommendations covering most commodities performed 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
Cockroaches
Professor of Entomology

Dr. Richard D. Fell
Apiculture and Stinging Insects
Assoc. Professor of Entomology

Dr. Ames Herbert
Soybeans, Small grains, Peanuts, and Cotton
Assistant Professor

Mr. Steve Hiner
Aquatic Insects and Invertebrates
Technical Support Staff

Dr. Michael Kosztarab
Scale Insects
Emeriti Professor of Entomology

Dr. Douglas G. Pfeiffer
Fruit and Nuts
Associate Professor

Dr. R. L. Pienkowski
Stored Grain Pests
Professor of Entomology

Dr. F. William Ravlin
Gypsy Moths
Associate Professor of Entomology

Dr. William H Robinson
Household and Structural Wood, Lawn and Turf
Professor of Entomology

Dr. Scott Salom
Forest and Conifer
Assistant Professor of Entomology

Dr. Peter Schultz
Ornamentals
Associate Professor

Dr. Paul J. Semtner
Tobacco
Associate Professor

Dr. J. R. Voshell
Aquatic Insects
Professor of Entomology

Dr. Roger Youngman
Corn, Small grains, and Livestock
Assistant Professor

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	Identif. for Extension Agents & the Public	Identifications from Exotic Pests Surveys, Numbers of Traps Examined	Specimens sent to the Systematic Entomology Lab., USDA at Beltsville, MD*
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
1990	1629	120	37
1991	1874	120	23
1992	1516	80	13
1993	1642	160	30
TOTAL	40012	756	2479

a Service not previously provided.
b Estimated
* Includes specimens sent to other taxonomists at other

institutions

COUNTY SUMMARY

COUNTY	SPECIMENS
Accomack	3
Albemarle	67
Alexandria(IC)	1
Alleghany	22
Amelia	4
Amherst	2
Appomattox	19
Arlington	12
Augusta	46
Bath	8
Bedford	16
Bland	0
Botetourt	13
Brunswick	4
Buchanan	4
Buckingham	6
Campbell	9
Caroline	4
Carroll	25
Charles City	6
Charlotte	3
Chesapeake(IC)	7
Chesterfield	79
Clarke	9
Craig	7
Culpeper	18
Cumberland	4
Danville(IC)	25
Dickenson	23
Dinwiddie	9
Essex	11
Fairfax	6
Fauquier	28
Floyd	11
Fluvanna	7
Franklin	25
Frederick	26
Giles	15
Gloucester	7
Goochland	25
Grayson	1
Greene	5
Greensville	2

Halifax	4
Hampton(IC)	22
Hanover	55
Henrico	25
Henry	10
Highland	5
Isle of Wight	12
James City	67
King and Queen	8
King George	13
King William	9
Lancaster	11
Lee	6
Loudoun	21
Louisa	6
Lunenberg	12
Lynchburg(IC)	99
Madison	5
Mathews	12
Mecklenberg	5
Middlesex	10
Montgomery	162
Nelson	6
New Kent	2
Newport News(IC)	10
Norfolk(IC)	1
Northampton	1
Northumberland	6
Nottoway	10
Orange	13
Page	11
Patrick	3
Petersburg(IC)	5
Pittsylvania	11
Powhatan	2
Prince Edward	8
Prince George	24
Prince William	24
Pulaski	3
Rappahannock	11
Richmond	5
Richmond(IC)	2
Roanoke	16
Roanoke(IC)	42
Rockbridge	2
Rockingham	36
Russell	3
Scott	8
Shenandoah	15
Smyth	5

Southampton	15
Spotsylvania	12
Stafford	9
Suffolk(IC)	7
Surry	12
Sussex	3
Tazewell	6
Virginia Beach(IC)	5
Warren	10
Washington	16
Westmoreland	20
Wise	11
Wythe	11
York	17
Total	1642

SPECIMENS RECEIVED BY THE INSECT IDENTIFICATION LABORATORY IN 1993

	JAN JULY	FEB AUG	MAR SEP	APR OCT	MAY NOV	JUNE DEC	TOTAL % OF TOTAL
Ornamental	13	24	21	41	72	110	102
	69	70	64	40	9	636	38.7%
Household	12	10	14	27	37	74	73
	65	50	43	48	11	464	28.2%
General	3	2	0	3	6	3	4
	17	10	7	2	1	58	3.5%
Vegetables, Field Crops, Forage	1	1	2	5	18	19	29
	12	11	4	6	0	108	6.6%
Fruits and nuts	2	2	1	2	8	25	27
	18	9	2	0	2	98	6.0%

Lawns and turf	0	0	1	2	3	4	6
	11	7	4	3	0	41	2.5%
Human	2	2	1	7	7	4	12
	15	16	6	6	1	79	4.8%
Animal	1	1	8	1	1	0	2
	3	2	0	0	2	21	1.3%
Structural	4	4	7	14	11	3	1
	0	0	6	3	1	54	3.3%
Apicultural	2	0	0	2	0	0	0
	0	0	1	0	0	5	0.3%
Stored Products	2	6	8	9	12	4	5
	3	5	7	11	6	78	4.8%
	---	---	---	---	---	---	---
	---	---	---	---	---	---	---
TOTAL	42	52	63	113	175	246	261
	213	180	144	119	33	1642	
% OF TOTAL	2.6%	3.2%	3.8%	6.9%	10.7%	15.0%	15.9%
	13.0%	11.0%	8.8%	7.2%	2.0%		

INSECTS RECEIVED

Ornamental

	J	F	M	A	M	J	
	J	A	S	O	N	D	TOT
No Insects Found	0	1	1	2	5	5	
	1	4	1	2	2	1	25
Spruce Mite	0	0	0	1	2	3	

	5	2	0	0	4	0	17
Boxwood Mite	0	3	1	2	0	0	
	1	2	4	0	1	0	14
Azalea Lace Bug	0	1	0	1	2	2	
	0	1	1	1	4	0	13
Hemlock Woolly Adelgid	0	0	2	3	0	1	
	2	4	0	0	1	0	13
Twospotted Spider Mite	0	1	0	1	3	1	
	2	4	0	1	0	0	13
White Pine Weevil	0	0	0	0	0	3	
	4	3	0	0	0	0	10
Bark Beetles	0	0	0	0	1	2	
	1	4	0	0	1	0	9
Black Vine Weevil	0	1	1	3	0	1	
	0	0	2	1	0	0	9
Maple Spindlegall	0	0	0	0	2	2	
	0	3	1	0	0	8	
Aphids	0	0	0	1	1	0	
	1	1	0	3	0	0	7
Boxwood Leafminer	0	1	0	2	1	0	
	1	0	2	0	0	0	7
Boxwood Psyllid	0	0	0	1	1	1	
	2	0	1	1	0	0	7
Eriophyid Mites	0	4	0	0	0	1	
	2	0	0	0	0	0	7
Soldier Beetles	0	0	0	0	1	5	
	1	0	0	0	0	0	7
Spider Mites	0	0	0	0	0	0	
	1	1	2	2	1	0	7
Thrips	1	0	1	0	1	1	
	1	0	1	1	0	0	7
Brown Soft Scale	0	1	0	1	2	0	
	1	1	0	0	0	0	6

Bucculatrix Moth	0	0	0	0	0	0	
	0	0	0	5	1	0	6
Buck Moth	1	0	0	0	1	4	
	0	0	0	0	0	0	6
Cottony Camellia Scale	0	0	0	2	2	1	
	0	0	1	0	0	0	6
Millipedes	1	1	0	1	2	0	
	1	0	0	0	0	0	6
Spruce Aphid	0	0	0	0	1	2	
	0	0	0	0	2	1	6
Caterpillars	0	0	0	0	1	0	
	1	1	1	0	0	0	5
Greenstriped Mapleworm	0	0	0	0	0	0	
	1	3	1	0	0	0	5
Gypsy Moth	0	0	0	0	1	3	
	1	0	0	0	0	0	5
Pales Weevil	0	0	0	0	0	1	
	1	1	2	0	0	0	5
Psocids	0	0	0	1	0	1	
	3	0	0	0	0	0	5
Southern Red Mite	0	0	0	0	0	2	
	1	0	1	1	0	0	5
Stink Bugs	0	0	0	0	0	1	
	3	0	1	0	0	0	5
Tuliptree Scale	0	0	0	0	0	1	
	2	1	1	0	0	0	5
Corn Earworm	0	0	0	0	0	0	
	1	0	2	1	0	0	4
Elm Leaf Beetle	0	0	0	0	0	0	
	1	0	3	0	0	0	4
Euonymus Scale	0	0	0	2	0	0	
	2	0	0	0	0	0	4
Flower Thrips	0	0	0	1	1	1	
	0	1	0	0	0	0	4

Hickory Tussock Moth	0	0	0	0	0	0	
	2	1	0	1	0	0	4
Japanese Wax Scale	1	0	0	1	0	0	
	0	0	1	0	0	1	4
Katydids	0	0	1	0	0	0	
	0	1	0	1	1	0	4
Maple Erineum Gall	0	0	0	0	0	0	
	1	1	1	1	0	0	4

INSECTS RECEIVED

Ornamental

	J J	F A	M S	A O	M N	J D	TOT
No Mites Found	0	0	0	0	1	2	
	1	0	0	0	0	0	4
Oak Lace Bug	0	0	0	0	0	0	
	2	0	1	1	0	0	4
Pine Webworm	1	0	1	0	0	0	
	0	1	0	0	1	0	4
Roundheaded Borers	0	0	0	0	0	1	
	0	1	2	0	0	0	4

RECEIVED 3 TIMES

Azalea Caterpillar	Birch Aphid
Carpenter Ants	Combclawed Beetles
Eastern Subterranean Termite	Elongate Hemlock Scale
European Earwig	Fall Cankerworm
Fall Webworm	Magnolia
Scale	Not An Insect
Oak Button	Galls
Oak Skeletonizer	Orangestriped Oakworm
Pine Bark Adelgid	Pine Needle Scale
Root Weevil	Rose Chafer
Slugs	Spiders
Springtails	Tiger Moths

Tip Moth
Wheel Bug
Woolly Alder Aphid
Webworms
Whiteflies

RECEIVED 2 TIMES

Ambrosia Beetles
Ants
Azalea Stem Borer
Broadnecked Root Borer
Carpenterworm
Darkwinged Fungus Gnats
European Fruit Lecanium
Flies
Hickory Leaf Gall
Asiatic Garden Beetle
Boxelder Bug
Bulb Mite
Could Not Diagnose
Eastern Hercules Beetle
European Hornet
Globular
Gloomy Scale

Gouty Oak Gall
Greedy Scale
Hickory Phylloxera Galls
Introduced Pine Sawfly
Juniper Aphids
Lightningbugs
Maple Bladdergall
March Flies
Mossyrose Gall Wasp
Oak Apple Galls
Pine Sawyers
Pink And Black Lady Beetle
Poplar Tentmaker
Sawflies
Tobacco Budworm
Twig Girdler
Wood Roaches
Hackberry Nipplegall
Horned Oak Gall
Japanese Scale
Lecanium Scales
Lilac Borer
Maple Leafspot Gall
Mealybugs
Noctuid Moths
Obscure Scale
Pine Spittlebug
Planthoppers
Raspberry Cane Borer
Soldier Flies
Tussock Moths
White Peach Scale

RECEIVED 1 TIME

Adelgids
Amber Snail
Arborvitae Leafminer
Azalea Leafminer
Banded Hickory Borer
Birch Sawfly
Birdsnest Fungi
Blow Flies
Bronze Birch Borer
Camellia Scale
Cecropia Moth
Ailanthus Webworm
Aphaenogaster Ant
Armyworm
Bamboo Diaspidid Scale
Beetle
Birch Stink Bug
Blister Beetles
Borers
Bugs
Cattail Caterpillar
Checkered Beetles

Citrus Whitefly
Click Beetles
Cottony Maple Scale
Cyclamen Mite
Dimorphic Gray
Dogwood Sawfly
Earthworms
Eastern Spruce Gall Adelgid
Eyed Click Beetle
Florida Red Scale
Formica Ants
Fungus Gnats
Green And Red Stink Bug
Green Lacewings
Harlequin Bug
Hibiscus Sawfly
Hickory Leaf Stem Gall
Honey Bee
Hoplia Beetles
Imported Willow Leaf Beetle
Ivy Scale
Jumping Spiders
Leaf Beetles
Leafminers
Longhorned Beetles
Maggots
Midge Galls
Mimosa Webworm
Mites
Nantucket Pine Tip Moth
Native Holly Leafminer
Oak Spider Mite
Ophraella Leaf Beetle
Orb Weavers
Oystershell Scale
Pine Needleminer
Pine Tip Moths
Pinkspotted Hawk Moth
Polyphemus Moth
Privet Thrips
Psyllids
Pyracantha Webworm
Redheaded Pine Sawfly
Rhododendron Lace Bug
Root Maggots
Saddleback Caterpillar
Scavenger Mites
Clearwing Moths
Colorado Potato Beetle
Cutworms
Daylily Thrips
Dogwood Borer
Dolerus Sawfly
Eastern Pine Looper
Eastern Tent Caterpillar
Flatheaded Borers
Flower Longhorned Beetle
Fruitworm
Gall Wasps
Green Fruitworm
Hairy Leaf Beetle
Hemispherical Scale
Hickory Horned Devil
Holly Leafminer
Honeylocust Plant Bug
Imported Fire Ant
Insect Eggs
Japanese Beetle
Juniper Scale
Leaf Crumpler
Linden Looper
Lycaeniid Butterfly
Maple Whitefly
Midrib Tumor Gall
Minute Brown Scavenger Beetles
Moths
Narcissus Bulb Fly
Needle Sheath Mites
Old Fashioned Potato Beetle
Orange Aphid Predator
Oribatid Mites
Peony Scale
Pine Thrips
Pinhole Borer
Pinkstriped Oakworm
Prenolepis Ants
Promethea Moth
Purslane Leafminer
Reddishbrown Willow Bark Aphid
Redhumped Caterpillar
Ribbonworm
Rose Stem Sawfly
San Jose Scale
Seed Bugs

Seedcorn Maggot
Slug Caterpillar
Sooty Mold
Spicebush Swallowtail
Spruce Bud Scale
Stinging Rose Caterpillar
Tachinid Flies
Temnochila Virescens
Threadwaisted Wasps
Treehoppers
Twicestabbed Lady Beetle
Underwing Moths
Vein Pocket Gall
Walnut Erineum Gall
Waterlily Leafcutter
White Grubs
Witch-Hazel Leafgall Aphid
Woolly Oak Gall
Yellow Woollybear
Sharpshooter
Snowberry Aphid
Southern Corn Rootworm
Spittlebugs
Spur Throated Grasshoppers
Sycamore Lace Bug
Tea Scale
Tenthredinid Sawflies
Tortoise Beetles
Tuliptree Beauty
Twig Pruner
Variegated Fritillary
Viceroy
Wasp Galls
Weevils
White Pine Aphid
Wool Sower Gall
Woolly Pine Scale

INSECTS RECEIVED
Household

	J J	F A	M S	A O	M N	J D	TOT
Axyridis Lady Beetle	1 0	0 0	0 0	0 27	0 15	0 2	45
Wood Roaches	0 2	1 1	4 0	3 0	6 1	4 0	22
Millipedes	0 4	1 1	1 3	0 1	2 1	3 1	18
Black Carpenter Ant	0 6	0 4	0 2	0 0	1 0	3 0	16
Pavement Ant	0 2	0 3	0 1	0 0	0 0	6 0	12
Wolf Spiders	0 2	0 2	0 1	1 3	0 2	0 0	11
Foreign Grain Beetle	0 0	0 6	0 3	0 0	0 0	0 0	9

Indianmeal Moth	0	0	0	0	0	0	
	0	6	3	0	0	0	9
Smaller Yellow Ant	0	0	0	1	0	1	
	1	0	0	1	4	0	8
Carpenter Ants	0	0	0	0	0	4	
	1	1	1	0	0	0	7
Formica Ants	0	0	0	0	2	1	
	2	2	0	0	0	0	7
Midges	1	0	0	0	0	3	
	0	1	1	0	0	1	7
Soldier Beetles	0	0	0	0	1	0	
	1	0	1	2	2	0	7
Click Beetles	0	1	0	0	0	1	
	2	2	0	0	0	0	6
Drugstore Beetle	0	0	0	0	0	1	
	1	2	2	0	0	0	6
House Centipede	0	0	0	4	0	1	
	0	1	0	0	0	0	6
Moth Flies	0	1	0	0	0	1	
	2	1	1	0	0	0	6
No Insects Found	0	0	0	0	1	0	
	2	1	0	0	1	1	6
Bark Beetles	1	0	2	0	1	0	
	0	0	1	0	0	0	5
Caterpillars	0	0	0	0	0	1	
	0	4	0	0	0	0	5
Cigarette Beetle	0	0	0	0	0	1	
	0	2	2	0	0	0	5
European Hornet	0	0	0	0	1	0	
	0	1	3	0	0	0	5
Ground Beetles	0	0	0	0	1	1	
	1	1	1	0	0	0	5
Hoplia Beetles	0	0	0	5	0	0	
	0	0	0	0	0	0	5

Longhorned Beetles	0	2	1	0	0	0	
	2	0	0	0	0	0	5
No Mites Found	0	0	0	0	0	4	
	0	0	1	0	0	0	5
Plasterer Bees	0	0	0	0	5	0	
	0	0	0	0	0	0	5
Pseudoscorpions	0	0	1	1	0	0	
	0	0	1	0	2	0	5
Blow Flies	0	0	0	0	1	2	
	0	0	0	0	1	0	4
Crab Spiders	0	0	0	0	0	2	
	0	0	0	0	2	0	4
Eastern Subterranean Termite	0	0	0	0	0	3	
	0	1	0	0	0	0	4
Elm Leaf Beetle	0	0	0	0	0	0	
	0	1	1	0	1	1	4
European Earwig	0	0	0	0	0	2	
	2	0	0	0	0	0	4
Humpbacked Flies	1	0	0	0	0	0	
	1	0	1	0	1	0	4
Hunting Spider	0	0	0	0	0	0	
	3	0	0	0	0	1	4

RECEIVED 3 TIMES

Bat Bugs	Carolina Wolf Spider
Carrion Beetles	Could Not Diagnose
Crematogaster Ants	Grain Mite
Horsehair Worms	Leafcutting Bees
Parasitic Wasps	Pyralid Moths
Southern Yellowjacket	Springtails
Tiphiid Wasps	Vinegar Flies

INSECTS RECEIVED
Household

RECEIVED 2 TIMES

Andrenid Bees
Asiatic Oak Weevil
Camel Crickets
Clover Mite
False Honey Ant
Giant Water Bug
Ichneumon Wasps
Not An Insect
Scoliid Wasps
Solitary Bees
Spiders
Antlike Flower Beetles
Boxelder Bug
Carpet Beetles
Darkling Beetles
Flies
Horse Flies
Larder Beetle
Paper Wasps
Small Eyed Flour Beetle
Sphecid Wasps
Stink Bugs

RECEIVED 1 TIME

American Cockroach
Anobiid Beetles
Aphids
Backswimmers
Black Flies
Black Widow Spider
Booklice
Buck Moth
Bumble Bees
Chalcid Wasps
Cicada Killer
Cluster Fly
Corn Earworm
Darkwinged Fungus Gnats
Dysderid Spider
Eastern Hercules Beetle
Eastern Yellowjacket
False Powderpost Beetles
Flatheaded Borers
Frit Flies
Funnel-Web Weavers
German Cockroach
Grass Carrier Wasp
Green Bottle Fly
Jumping Bristletail
Leaf Beetles
Lesser Mealworm
Maggots
Meal Moth
Negro Bugs
Old House Borer
Pickleworm
Potter Wasps
Psocids
Angoumois Grain Moth
Ants
Assassin Bugs
Black Carpet Beetle
Black Turfgrass Ataenius
Blue Bottle Fly
Brown Recluse Spider
Bugs
Cecropia Moth
Chicken Mite
Clover Hayworm
Common Idia
Crane Flies
Dingy Cutworm
Earthworms
Eastern Tent Caterpillar
Fall Webworm
Fishflies
Flying Ants
Fungus Gnats
Gall Midges
German Yellowjacket
Greater Wax Moth
Greenhouse Millipedes
Jumping Spiders
Leconte'S Haploa
Lone Star Tick
March Flies
Minute Brown Scavenger Beetles
Oil Beetle
Oribatid Mites
Pirate Spider
Primitive Weevil
Psorophora Mosquito

Red Carpenter Ant
Redbud Borer
Roundheaded Borers
Rustic Borer
Silverfish
Small Winter Stoneflies
Soldier Flies
Spicebush Swallowtail
Tachinid Flies
Threadwaisted Wasps
Tilehorned Prionus
Whitemarked Tussock Moth
Red Oak Borer
Rodent Box Fly
Rove Beetles
Sheetweb Spiders
Skeleton Beetle
Smokybrown Cockroach
Sowbugs
Spur Throated Grasshoppers
Termites
Tiger Beetles
Water Boatmen
Yellow Ants

INSECTS RECEIVED
General

RECEIVED 3 TIMES

Bumble Bees

RECEIVED 2 TIMES

Cecropia Moth
Spiders

General

RECEIVED 1 TIME

Allegheny Mound Ant
American Dagger Moth
Andrenid Bees
Bird Mites
Cicada Killer
Darkwinged Fungus Gnats
Dock Leaf Beetles
Eastern Hercules Beetle
Funnel-Web Weavers
Greenhouse Millipedes
Hermit Flower Beetle
Hoplia Beetles
Ichneumon Wasps
Lace Bugs
Marbled Orb Weaver
Midges
Negro Bugs
Amber Snail
American Dog Tick
Banded Wood Snail
Cereal Leaf Beetle
Cicadas
Dobsonfly
Dung Beetles
Eastern Yellowjacket
Glowworms
Ground Beetles
Hickory Tussock Moth
Horsehair Worms
Isopod
Looper
Marine Isopods
Minute Brown Scavenger Beetles
No Mites Found

Noctuid Moths	Orb Weavers
Parasitic Wasps	Polyphemus Moth
Pseudoscorpions	Robber Flies
Scoliid Wasps	Slave Making Ants
Small Winter Stoneflies	Smaller Yellow Ant
Snipe Flies	Soldier Flies
Thornbugs	Thrips
Trap Door Spider	Tussock Moths
Wolf Spiders	

INSECTS RECEIVED
Veg.|Field crops

	J J	F A	M S	A O	M N	J D	TOT
Twospotted Spider Mite	0 5	0 1	0 1	1 0	0 0	0 0	8
Cereal Leaf Beetle	0 0	0 0	0 0	0 0	2 0	3 0	5
Thrips	0 3	0 0	0 0	0 2	0 0	0 0	5
Western Corn Rootworm	0 4	0 0	0 0	0 0	0 0	1 0	5

RECEIVED 3 TIMES

Seedcorn Maggot	Soldier Beetles

RECEIVED 2 TIMES

Aphids	Black Swallowtail
Garden Fleahopper	Japanese Beetle
Lady Beetles	No Insects Found
Pecan Phylloxera	Saltmarsh Caterpillar
Stink Bugs	Whiteflies

RECEIVED 1 TIME

Allegheny Mound Ant	Armyworm
Asiatic Garden Beetle	Asparagus Beetle
Assassin Bugs	Bandedwinged Whitefly
Bean Lycaenid	Billbugs
Black Cutworm	Blister Beetles
Brushfooted Butterflies	Bulb Flies

Cabbage Aphid
Colorado Potato Beetle
Dock Leaf Beetles
English Grain Aphid
Fourlined Plant Bug
Ground Beetles
Lace Bugs
Leafhoppers
Monarch Butterfly
Not Insecticide Burn
Parsleyworm
Potato Leafhopper
Sap Beetles
Soldier Flies
Squash Vine Borer
Tarnished Plant Bug
Threecornered Alfalfa Hopper
Tobacco Budworm
Tomato Fruitworm
Tussock Moths
White Grubs
Whitemarked Burrower Bug
Wireworms
Yellowstriped Armyworm
Caterpillars
Corn Leaf Aphid
Earthworms
European Corn Borer
Glowworms
Imported Cabbageworm
Leaffooted Bugs
Maggots
No Mites Found
Orb Weavers
Plasterer Bees
Rove Beetles
Scoliid Wasps
Squash Bug
Striped Cucumber Beetle
Threadwaisted Wasps
Tiger Beetles
Tobacco Thrips
Treehoppers
Vinegar Flies
Whitelined Sphinx
Whitemarked Tussock Moth
Yellownecked Caterpillar

INSECTS RECEIVED
Fruits and nuts

	J J	F A	M S	A O	M N	J D	TOT
Plum Curculio	0 4	0 1	0 1	0 0	0 0	1 0	7
No Insects Found	1 1	1 0	0 0	0 0	2 0	0 0	5
Aphids	0 1	0 1	0 0	0 0	1 0	1 0	4
Fall Webworm	0 2	0 1	0 0	0 0	0 0	1 0	4
Tarnished Plant Bug	0 1	0 0	0 1	0 0	0 0	2 0	4

RECEIVED 3 TIMES

Rose Chafer
Spider Mites

Strawberry Rootworm
Twospotted Spider Mite

RECEIVED 2 TIMES

Peachtree Borer
Pyralid Moths
Raspberry Sawfly
Rednecked Cane Borer
Rose Leaf Beetle
San Jose Scale
Sawflies
Wheel Bug
Whitemarked Tussock Moth
Woolly Apple Aphid
Yellownecked Caterpillar

RECEIVED 1 TIME

Apple Leaf Bucculatrix
Azalea Stem Borer
Barberry Webworm
Bark Beetles
Beetle
Blackberry Psyllid
Brown Soft Scale
Carolina Mantid
Chestnut Weevils
Codling Moth
Cuban Laurel Thrips
Eastern Tent Caterpillar
Eriophyid Mites
European Earwig
Flatid Planthoppers
Flower Thrips
Grape Leaffolder
Grape Tomato Gall
Green Fruitworm
Hickory Horned Devil
Hickory Shoot Curculios
Hickory Shuckworm
Honey Bee
Japanese Beetle
Leaffooted Bugs
Leafrollers
Longhorned Beetles
Not An Insect
Orangedog
Oriental Fruit Moth
Pearleaf Blister Mite
Puss Caterpillar
Raspberry Cane Borer
Raspberry Cane Maggot
Shothole Borer
Skippers
Stinging Rose Caterpillar
Tiger Moths
Tree Crickets
Twig Girdler

INSECTS RECEIVED
Lawns and turf

	J J	F A	M S	A O	M N	J D	TOT
Scoliid Wasps	0 0	0 4	0 1	0 0	0 0	0 0	5

RECEIVED 2 TIMES

Cicada Killer
Weevils

RECEIVED 1 TIME

Allegheny Mound Ant	Aphids
Asiatic Garden Beetle	Black Cutworm
Black Turfgrass Ataenius	Broadnecked Root Borer
Bronzed Cutworm	Butterflies
Cereal Leaf Beetle	Crane Flies
Eyed Click Beetle	Fall Armyworm
Formica Ants	Green June Beetle
Hickory Horned Devil	Hoplia Beetles
Hunting Billbug	Japanese Beetle
March Flies	Mealybugs
Millipedes	Muckworms
Northern Mole Cricket	Plasterer Bees
Sod Webworms	Soldier Beetles
Southern Yellowjacket	Stink Bugs
Threadwaisted Wasps	Tiger Beetles
Tilehorned Prionus	Whitemarked Tussock Moth

INSECTS RECEIVED
Human

	J J	F A	M S	A O	M N	J D	TOT
Lone Star Tick	0 2	0 8	0 5	3 0	3 0	1 0	22
American Dog Tick	0 4	0 1	0 0	0 0	2 0	0 0	7
No Mites Found	0 2	0 1	1 0	1 0	0 0	0 0	5
Black Widow Spider	0 0	0 0	0 1	0 1	0 2	0 0	4
Crab Louse	2 0	0 0	0 1	0 0	0 1	0 0	4

RECEIVED 3 TIMES

Ixodes Tick	No Insects Found
Thrips	

RECEIVED 2 TIMES

Bird Mites	Not An Insect
Orb Weavers	

RECEIVED 1 TIME

Ambush Bugs	Assassin Bugs
Beetle	Black Flies
Bot Fly	Buck Moth
Could Not Diagnose	Crane Flies
Head Louse	Hister Beetles
Human Bot Fly	Human Flea
Jumping Spiders	Lace Bugs
Oil Beetle	Stable Fly
Tephritid Flies	Ticks
Varied Carpet Beetle	Velvet Ants
Vinegar Flies	Wolf Spiders

INSECTS RECEIVED
Animal

RECEIVED 1 TIME

American Dog Tick	Anthomyiid Flies
Braconid Wasps	Brown Dog Tick
Carrion Beetles	Chicken Body Louse
Curtonotid Flies	Dark Mealworm
Darkwinged Fungus Gnats	Deer Nose Bot Fly
Fleas	Fowl Tick
Grain Mite	Ixodes Tick
Lesser Mealworm	Little Earwigs
Pteromalid Wasp	Riffle Beetles
Spiny Rat Mite	Underwing Moths
Yellow Mealworm	

INSECTS RECEIVED
Structural

	J J	F A	M S	A O	M N	J D	TOT
Eastern Subterranean Termite	0 1	0 0	5 0	11 0	4 0	1 1	23
Black Carpenter Ant	1 0	0 0	2 0	0 0	3 0	0 0	6
Carpenter Ants	1 0	1 0	0 0	1 0	2 0	1 0	6
Old House Borer	0 0	0 0	0 0	0 2	0 2	0 0	4

Roundheaded Borers	1	1	0	0	0	0	
	0	0	0	2	0	0	4

RECEIVED 2 TIMES

Drywood Termites	Powder Post Beetles

RECEIVED 1 TIME

Anobiid Powder Post Beetles	Bark Beetles
Carpenter Bee	Crematogaster Ants
Leafcutting Bees	Longhorned Beetles
Red Carpenter Ant	

INSECTS RECEIVED
Apicultural

RECEIVED 3 TIMES

Honey Bee Tracheal Mite

RECEIVED 2 TIMES

No Mites Found

INSECTS RECEIVED
Stored Products

	J	F	M	A	M	J	
	J	A	S	O	N	D	TOT
Varied Carpet Beetle	0	1	4	3	3	0	
	0	0	0	0	1	2	14
Indianmeal Moth	0	1	1	1	1	0	
	0	0	1	2	1	2	10
Drugstore Beetle	1	0	1	0	1	1	
	0	0	0	2	0	0	6
Black Carpet Beetle	0	1	0	0	1	0	
	0	0	0	1	1	0	4
Carpet Beetles	0	0	0	0	0	0	
	0	0	0	1	3	0	4

RECEIVED 3 TIMES

Angoumois Grain Moth
Cigarette Beetle
Casemaking Clothes Moth
Spider Beetles

RECEIVED 2 TIMES

Dark Mealworm
Oriental Cockroach
Grain Mite
Sawtoothed Grain Beetle

RECEIVED 1 TIME

Black Larder Beetle
Centipedes
Common Carpet Beetle
Granary Weevil
Murkymeal Moth
Not An Insect
Red Flour Beetle
Rice Weevil
Sap Beetles
Stink Bugs
Cabinet Beetle
Clothes Moths
Foreign Grain Beetle
Larder Beetle
Northern Mole Cricket
Powder Post Beetles
Redlegged Ham Beetle
Roundheaded Borers
Springtails
Twotoothed Grain Beetle