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# **INSECT IDENTIFICATION LABORATORY**

## **ANNUAL REPORT 1983**

Daniel J. Hilburn

Department of Entomology  
College of Agriculture and Life Sciences  
Virginia Cooperative Extension Service  
Virginia Polytechnic Institute and State University

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## INTRODUCTION

This report summarizes the activity of the Insect Identification Laboratory at Virginia Tech for 1983. The laboratory is located in 312 Price Hall. It is managed by Daniel J. Hilburn, Lab Specialist, Department of Entomology. This year, Kassi Jean, a USAID sponsored intern from the Cameroon Republic, provided assistance during part of the year.

Specimens are identified and recorded in the lab, then sent to Extension Entomologists who handle particular commodity groups for control recommendations and additional comments. This year, for the first time, specimen data was entered in the Virginia Tech mainframe computer. This greatly facilitated sorting and storage of the information. Sue Rutherford deserves the credit for writing the programs which made it possible. This report was generated by a program she wrote. Some of the records were sent via the computer to the Cooperative National Plant Pest Survey and Detection Program.

Local offices of the Cooperative Extension Service in counties and municipalities are provided with Insect Identification and Diagnosis Request forms (form 444-113), alcohol vials, and mailing tubes for sending insects and insect damaged specimens to the lab. Specimens may be brought directly to the lab or mailed to:

Insect Identification Laboratory  
Extension Entomology  
312 Price Hall  
VPI&SU  
Blacksburg, VA 24061-5796

In many cases, no effort is made to identify insects beyond the family level, and common names are used where possible because of their wide recognition.

A total of 1,815 requests were received in 1983. Eighty-three percent were forwarded by Extension Agents, the rest were brought in or sent in directly by members of the general public. Identification requests for homeowners accounted for 90% of the total, 7% were for commercial growers, and 3% were for urban pest control operators, medical doctors, and others. Control recommendations were requested in 71% of the cases, 15% requested identification only, and 14% did not specify one or the other.

Persons providing identifications and/or control recommendations:

Mr. Daniel J. Hilburn Laboratory Specialist	General
Dr. John A. Weidhaas, Jr Extension Entomologist	Ornamentals
Dr. William H. Robinson Extension Entomologist	Household and Structural Wood, Fruits and Nuts, Lawn and Turf, Human
Dr. James E. Roberts, Sr. Extension Entomologist	Vegetables, Field Crops, and Animal
Dr. Boris C. Kondratieff Research Associate	General
Dr. Michael Kosztarab Professor of Entomology	Scale Insects
Dr. William A. Allen Extension Entomologist	General
Dr. Richard D. Fell Assistant Professor of Entomology	Apiculture and Stinging Insects
Mr. John M. Luna Extension Entomologist	Alfalfa
Dr. Sidney L. Poe Head, Department of Entomology	Mites



The following table lists the growth 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 Black Light Traps at Ports of Entry	Identified by U.S. National Museum through The IIL
1967	318	a	a
1968	984	130	a
1969	1104	140	a
1970	1245	490	a
1971	1276	1120	100 <sup>b</sup>
1972	970	557	516
1973	1124	683	184
1974	1264	742	316
1975	1430	781	160
1976	1437	457	223
1977	1365	500 <sup>b</sup>	282
1978	1351	550 <sup>b</sup>	89
1979	1770	0	120
1980	1527	0	23
1981	2028	0	89
1982	2004	0	100
1983	1815	0	36
TOTAL	23012	6150	2238

<sup>a</sup>Service not previously provided.

<sup>b</sup>Estimated figure.

SPECIMENS RECEIVED BY THE INSECT IDENTIFICATION LABORATORY IN 1983

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	% OF TOTAL
Ornamentals, Shade trees	22	9	26	54	74	131	130	95	63	51	20	9	684	37.7%
Household, Structural Wood	36	34	37	67	81	95	85	51	61	41	42	27	657	36.2%
Fruits and nuts	4	6	8	6	13	23	20	18	14	13	7	4	136	7.5%
Veg.   Field crops	1	2	2	0	14	31	30	24	17	6	2	2	131	7.2%
General	6	6	4	9	24	21	18	17	15	5	1	0	126	6.9%
Lawns and turf	0	0	0	2	8	7	7	7	9	5	1	1	47	2.5%
Animal	2	0	1	0	2	1	2	3	2	0	1	1	15	0.8%
Human	0	1	0	1	3	4	0	1	0	0	0	0	10	0.5%
Stored products	0	0	0	0	0	2	0	1	3	0	0	1	7	0.4%
Apicultural	0	0	0	0	1	0	0	0	0	0	0	0	1	0%
	---	---	---	---	---	---	---	---	---	---	---	---	---	
TOTAL	71	58	78	139	220	315	292	217	184	121	74	45	1815	
% OF TOTAL	3.9%	3.2%	4.3%	7.6%	12.1%	17.4%	16.1%	11.9%	10.1%	6.7%	4.1%	2.5%		

MOST FREQUENTLY RECEIVED ARTHROPODS  
ORNAMENTAL PLANTS AND SHADE TREES

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Not An Insect	1	1	2	4	6	13	6	1	2	2	2	0	40
No Insects Found	2	0	3	5	3	6	5	6	4	3	0	0	37
Spruce Mite	0	0	1	3	4	5	5	0	1	2	1	1	23
Could Not Diagnose	0	1	0	2	1	3	3	6	2	1	0	0	19
Psocids	0	0	0	0	1	3	7	6	0	0	0	0	17
Boxwood Mite	0	1	2	3	3	1	0	2	0	1	0	2	15
Bark Beetles	0	1	0	1	3	1	2	2	1	2	1	0	14
Greenstriped Mapleworm	0	0	0	0	0	4	5	2	1	0	0	0	12
Pine Bark Adelgid	0	0	3	3	2	3	1	0	0	0	0	0	12
Hemlock Woolly Adelgid	0	0	0	2	3	2	1	1	1	1	0	0	11
Lace Bugs	0	1	1	0	0	2	5	2	0	0	0	0	11
Walnut Caterpillar	0	0	1	0	1	0	5	3	1	0	0	0	11
Aphids	2	0	0	0	1	6	1	0	0	0	0	0	10
Maple Bladdergall	0	0	0	0	2	4	3	0	0	1	0	0	10
Sooty Mold	6	0	0	1	2	1	0	0	0	0	0	0	10
Spider Mites	0	0	0	0	1	2	0	4	1	2	0	0	10
Twospotted Spider Mite	1	0	0	0	0	3	2	1	1	0	0	0	8
Boxwood Leafminer	0	0	2	1	0	0	0	1	0	1	0	2	7
Oystershell Scale	1	0	0	1	1	1	0	1	0	1	1	0	7
Pine Tip Moths	0	0	0	0	0	2	2	2	0	0	1	0	7
White Pine Aphid	0	0	0	2	1	3	0	1	0	0	0	0	7
Armored Scales	1	0	0	1	0	1	0	0	1	2	0	0	6
Azalea Lace Bug	0	0	1	1	0	0	0	2	2	0	0	0	6
Buck Moth Caterpillar	0	0	0	0	1	3	2	0	0	0	0	0	6
Obscure Scale	0	0	0	1	2	1	1	1	0	0	0	0	6
Soldier Beetles	0	0	0	0	1	4	1	0	0	0	0	0	6

MOST FREQUENTLY RECEIVED ARTHROPODS  
ORNAMENTAL PLANTS AND SHADE TREES

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
White Pine Weevil	0	0	0	0	1	2	2	1	0	0	0	0	6
Boxwood Psyllid	0	0	1	0	0	0	0	1	0	1	0	2	5
Catalpa Sphinx	0	0	0	0	0	0	3	2	0	0	0	0	5
Hemispherical Scale	1	0	0	2	0	0	0	1	0	0	1	0	5
Lady Beetles	0	0	0	1	0	4	0	0	0	0	0	0	5
Leaf Beetles	0	0	0	1	0	0	2	1	1	0	0	0	5
Noctuid Moths	0	0	1	1	0	0	0	2	0	1	0	0	5
Spittlebugs	0	0	0	0	3	2	0	0	0	0	0	0	5
Anthomyiid Flies	0	0	0	0	1	3	0	0	0	0	0	0	4
Brown Soft Scale	2	0	0	0	0	0	1	0	0	0	0	1	4
Insect Eggs	0	0	0	1	0	1	0	2	0	0	0	0	4
Maple Spindlegall	0	0	0	0	0	4	0	0	0	0	0	0	4
Pine Needle Scale	0	0	1	0	0	1	0	1	1	0	0	0	4
Roundheaded Borers	0	0	0	0	0	1	1	2	0	0	0	0	4
Sawflies	0	0	0	0	0	0	1	2	1	0	0	0	4
Scarab Beetles	0	0	0	0	0	1	1	2	0	0	0	0	4
Thrips	0	0	0	0	0	1	3	0	0	0	0	0	4
Wheel Bug	0	0	1	1	0	1	0	1	0	0	0	0	4

RECEIVED 3 TIMES

Azalea Stem Borer  
Birch Leafminer  
Euonymus Scale  
European Hornet  
Gloomy Scale  
Juniper Webworm  
Leafminers  
Millipedes  
Notodontid Moths  
Orangestriped Oakworm  
Pine Sawyers

Poplar Tentmaker  
Rose Chafer  
Southern Red Mite  
Spiny Oakworm  
Swallowtail Butterflies  
Tuliptree Scale  
Underwing Moths  
White Peach Scale  
Wool Sower Gall  
Woolly Apple Aphid

RECEIVED 2 TIMES

Azalea Caterpillar	Leafhoppers
Azalea Leafminer	Longhorned Beetles
Borers	Magnolia Scale
Boxelder Bug	Maple Leafspot Gall
Carpenter Bees	March Flies
Casebearers	Mimosa Webworm
Checkered Beetles	Mulberry Whitefly
Erineum Galls	Oak Lecanium
European Fruit Lecanium	Oak Spangles
Fern Scale	Parasitic Wasps
Gall Midges	Pine Webworm
Gall Mites	Polyphemus Moth
Geometrid Moths	Saddleback Caterpillar
Gouty Vein Gall	Sap Beetles
Hickory Horned Devil	Scoliid Wasps
Hickory Leaf Stem Gall	Spiders
Hickory Tussock Moth	Spiny Elm Caterpillar
Holly Leafminers	Springtails
Horntails	Stink Bugs
Io Moth	Termites
Japanese Beetle	Tiger Moths
Japanese Scale	Wax Scale
Juniper Scale	Woolly Alder Aphid
Katydids	

RECEIVED 1 TIME

Ants	Darkling Beetles
Arborvitae Leafminer	Darkwinged Fungus Gnats
Arrowshaped Micrathena	Dogwood Clubgall
Arvorvitae Leafminer	Earthworms
Assassin Bugs	Earwigs
Azalea Bark Scale	Elm Leaf Beetle
Bagworm	Elm Scurfy Scale
Baldfaced Hornet	Eriophyid Mites
Black Vine Weevil	European Elm Scale
Blister Beetles	Eyed Elater
Bristly Roseslug	Fall Webworm
Brown Lacewings	Five Pronged Sphinx
Calico Scale	Flat Bugs
Camellia Parlatoria Scale	Fletcher Scale
Camellia Scale	Forest Tent Caterpillar
Carpenter Ants	Fourlined Plant Bug
Caterpillars	Froghoppers
Cecropia Moth	Gall Wasps
Chalcid Wasps	Galls
Chrysanthemum Lace Bug	Garden Fleahopper
Climbing Cutworms	Giant Bark Aphid
Comstock Mealybug	Gladiolus Thrips
Cooley Spruce Gall Adelgid	Globular Hickory Leaf Gall
Corn Earworm	Gouty Oak Gall
Cyclamen Mite	Ground Beetles
Cynipid Galls	Hackberry Button Gall

Hag Moth	Praying Mantids
Hickory Seed Gall	Psyllids
Hister Beetles	Puss Caterpillar
<u>Hoplia</u> sp.	Redheaded Pine Sawfly
<u>Horned</u> Oak Gall	Redhumped Caterpillar
Imperial Moth	Regal Moth
Japanese Weevil	Rhododendron Borer
June Beetles	Saltmarsh Caterpillar
Juniper Bud Mites	San Jose Scale
Lacewings	Scale Insects
Leafrollers	Skippers
Lesser Snow Scale	Small Fruit Flies
Mealybugs	Snipe Flies
Metallic Wood Borers	Soft Scales
Midges	Soldier Flies
Mites	Solitary Bees
Moth Pupa	Solitary Oak Leafminer
Native Holly Leafminer	Sphinx Moths
Northern Pine Weevil	Spotted Cucumber Beetle
Oak Lace Bug	Stilt Bugs
Oak Red Mite	Sweetgum Scale
Oak Treehoppers	Tussock Moths
Oleander Scale	Twicestabbed Lady Beetle
Oriental Cockroach	Twig Girdler
Pales Weevil	Variable Oakleaf Caterpillar
Pandora Sphinx	Vein Pocket Gall
Peachtree Borer	Viceroy
Phylloxerans	Virginia Pine Scale
Pine False Webworm	Weevils
Pine Tortoise Scale	White Pine Sawfly
Pinkstriped Oakworm	Whiteflies
Pit Scales	Yellow Wollybear
Planthoppers	Yellownecked Caterpillar

MOST FREQUENTLY RECEIVED ARTHROPODS  
HOUSEHOLD AND STRUCTURAL WOOD

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Termites	1	1	1	14	11	5	7	0	5	2	1	0	48
Carpenter Ants	2	1	2	9	6	4	7	7	5	0	0	1	44
Carpet Beetles	2	1	4	6	6	7	1	0	3	3	5	1	39
Indianmeal Moth	2	2	2	3	5	1	1	3	5	4	2	1	31
Longhorned Beetles	2	0	5	5	6	3	1	2	0	0	0	1	25
Old House Borer	0	2	0	0	2	1	2	3	4	1	1	2	18
Soldier Beetles	0	0	0	0	1	3	0	0	1	7	3	0	15
Ground Beetles	0	0	0	0	2	2	7	1	2	0	0	0	14
Larder Beetle	0	0	0	0	4	5	0	1	0	0	2	0	12
Pavement Ant	0	0	0	1	0	5	5	0	0	0	1	0	12
No Insects Found	1	2	1	0	1	2	1	0	2	1	0	0	11
Bark Beetles	2	1	1	0	3	0	0	0	0	1	0	2	10
Millipedes	1	0	0	0	1	2	2	0	1	0	3	0	10
Powder Post Beetles	1	0	0	2	3	1	0	1	0	1	0	1	10
Ants	0	1	0	1	0	2	2	3	0	0	0	0	9
Smaller Yellow Ant	0	1	0	0	0	0	1	0	0	3	4	0	9
Sawtoothed Grain Beetle	1	0	1	0	1	1	1	1	0	0	1	1	8
Spider Beetles	1	1	0	3	1	1	0	0	1	0	0	0	8
Wood Roaches	0	0	0	0	2	3	3	0	0	0	0	0	8
Cigarette Beetle	1	0	0	1	1	1	1	0	1	0	1	0	7
Earwigs	0	0	0	0	0	3	2	0	1	0	1	0	7
Midges	2	0	0	1	0	0	2	0	1	0	0	1	7
Casemaking Clothes Moth	0	1	0	0	0	1	0	0	1	1	2	0	6
Cluster Fly	1	2	1	1	1	0	0	0	0	0	0	0	6
Larger Yellow Ant	0	0	2	0	1	2	1	0	0	0	0	0	6
Locust Borer	0	1	2	0	1	1	0	1	0	0	0	0	6

MOST FREQUENTLY RECEIVED ARTHROPODS  
HOUSEHOLD AND STRUCTURAL WOOD

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
March Flies	0	0	0	4	2	0	0	0	0	0	0	0	6
Moth Flies	0	0	0	0	0	1	2	0	1	0	1	1	6
Booklice	0	0	0	0	0	1	1	0	2	0	0	1	5
Crematogaster Ants	0	0	0	0	0	0	1	2	1	0	1	0	5
Drugstore Beetle	0	0	0	0	0	2	0	2	1	0	0	0	5
Fleas	0	0	0	0	0	1	1	0	1	1	1	0	5
Red Flour Beetle	1	0	0	0	0	1	0	1	0	0	1	1	5
Angoumois Grain Moth	2	0	0	0	0	0	1	0	1	0	0	0	4
Clothes Moths	0	0	1	0	0	2	1	0	0	0	0	0	4
Clover Mite	0	0	1	2	1	0	0	0	0	0	0	0	4
European Hornet	0	0	0	0	0	2	0	0	1	1	0	0	4
Face Fly	0	3	0	1	0	0	0	0	0	0	0	0	4
Fungus Gnats	0	0	1	1	0	0	1	0	0	0	0	1	4
House Centipede	0	0	0	1	0	1	0	1	0	1	0	0	4
Moth Pupae	1	1	0	0	0	2	0	0	0	0	0	0	4
Murkymeal Moth	0	0	0	0	0	0	0	0	1	1	2	0	4
Redheaded Ash Borer	2	0	1	0	0	0	0	0	0	0	0	1	4
Small Fruit Flies	0	2	1	0	0	0	0	0	0	1	0	0	4
Springtails	1	0	0	0	0	2	0	0	0	0	0	1	4

RECEIVED 3 TIMES

Bed Bugs  
Bird Mites  
Carolina Wolf Spider  
Carpenter Bees  
Carrion Beetles  
Foreign Grain Beetle  
Ivorymarked Beetle

Mites  
Slugs  
Smokybrown Cockroach  
Spider Wasps  
Stoneflies  
Tiphiid Wasps  
Velvet Ants



American Cockroach	Leafcutting Bees
Aphid Wasps	Lesser Mealworm
Bean Weevil	Minute Brown Scavenger Beetles
Black Carpet Beetle	Moth
Bumble Bees	Not An Insect
Camel Crickets	Oak Skeletonizer
Could Not Diagnose	Oriental Cockroach
Crane Flies	Paper Wasps
Darkwinged Fungus Gnats	Parasitic Wasps
Drywood Termites	Pine Sawyers
Ensign Wasps	Rove Beetles
Eyed Elater	Scarab Beetles
German Cockroach	Soldier Flies
Grain Mite	Sowbugs
Grass Carrying Wasp	Strawberry Root Weevil
Horsehair Worms	Tiger Moths
Jumping Spiders	Wood Wasps

## RECEIVED 1 TIME

Allegheny Mound Ant	Meal Moth
Anthomyid Flies	Mimosa Webworm
Antlike Flower Beetles	Mud-Dauber Wasps
Aphids	Mulberry Whitefly
Asiatic Garden Beetle	Myodocha serripes
Asiatic Oak Weevil	Noctuid Moths
Beetles	Orb Weavers
Biting Midges	Phymatodes varius
Black Soldier Fly	Pseudoscorpions
Blister Beetles	Pyralid Moths
Bostrichid Beetles	Red Carpenter Ant
Brown Lacewings	Redlegged Ham Beetle
Brownbanded Cockroach	<u>Reticulitermes hageni</u>
Cat Flea	Rice Weevil
Cicadas	Robber Flies
Click Beetles	Roundheaded Borers
Clover Hayworm	Sawflies
Clubionid Spiders	Seed Bugs
Combclawed Beetles	Shining Flower Beetles
Copepods	Silverfish
Cornfield Ant	Small Dung Flies
Cowpea Weevil	Sphecid Wasps
Daddy Longlegs Spiders	Spiders
Darkling Beetles	Spruce Bud Scale
Elm Leaf Beetle	Spruce Mite
European Grain Moth	Stink Bugs
Flat Bark Beetles	Swallowtail Butterflies
Fly Puparia	Tachinid Flies
Fruit Flies	Thrips
Gnaphosid Spiders	Twospotted Lady Beetle
Green June Beetle	Twospotted Spider Mite
Halictid Bees	Vespid Wasps
Honey Bee	Wax Scale
Horse Flies	Weevils
House Pseudoscorpion	Wheel Bug
Humpbacked Flies	Wolf Spiders
Ichneumon Wasps	Yellow Mealworm
Mayflies	Yellowjackets

## MOST FREQUENTLY RECEIVED ARTHROPODS

## FRUITS AND NUTS

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Not An Insect	0	0	0	0	4	1	0	1	0	1	1	0	8
Grape Phylloxera	0	0	0	0	0	2	1	3	1	0	0	0	7
San Jose Scale	0	1	1	1	0	0	0	0	1	1	1	1	7
Apple Maggot	0	0	0	0	0	0	1	1	0	3	0	0	5
Plum Curculio	0	0	0	0	1	0	1	3	0	0	0	0	5
Aphids	0	0	1	1	0	1	1	0	0	0	0	0	4
Pear Psylla	0	0	0	0	0	0	1	2	1	0	0	0	4
Plant Bugs	0	0	0	0	0	1	1	2	0	0	0	0	4

## RECEIVED 3 TIMES

Codling Moth  
 Could Not Diagnose  
 Grape Cane Girdler  
 Grape Tomato Gall

Oriental Fruit Moth  
 Twospotted Spider Mite  
 Walnut Husk Fly  
 White Peach Scale

## RECEIVED 2 TIMES

Bark Beetles  
 European Red Mite  
 Fall Webworm  
 March Flies  
 No Insects Found  
 Peach Twig Borer  
 Psocids

Puss Caterpillar  
 Rose Chafer  
 Scoliid Wasps  
 Underwing Moths  
 Weevils  
 Yellownecked Caterpillar  
 Woolly Apple Aphid

## RECEIVED 1 TIME

Ambrosia Beetles  
 Anthomyiid Flies  
 Apple Skeletonizer  
 Asparagus Beetle  
 Blackberry Psyllid  
 Burrowing Bugs  
 Carpenter Bees  
 Cicadas  
 Eastern Tent Caterpillar  
 Eightspotted Forester  
 European Hornet  
 Filbertworm  
 Grape Applegall  
 Grape Sawfly  
 Grape Scale  
 Grape Seed Chalcid  
 Indianmeal Moth  
 Katydid  
 Lesser Peach Tree Borer  
 Locust Leafminer

Millipedes  
 Moths  
 Notodontid Moths  
 Pandora Sphinx  
 Pigeon Tremex  
 Praying Mantids  
 Redhumped Caterpillar  
 Rednecked Cane Borer  
 Roundheaded Appletree Borer  
 Sap Beetles  
 Soft Scales  
 Sooty Mold  
 Speckled Green Fruitworm  
 Spider Mites  
 Stem Miner  
 Stink Bugs  
 Tussock Moths  
 Walnut Caterpillar  
 Wheel Bug  
 Whitemarked Tussock Moth

MOST FREQUENTLY RECEIVED ARTHROPODS  
VEGETABLES AND FIELD CROPS

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
No Insects Found	0	0	0	0	0	5	1	1	0	0	0	1	8
Not An Insect	0	0	0	0	0	2	2	1	0	0	0	0	5
Black Cutworm	0	0	0	0	0	1	1	0	2	0	0	0	4
Stalk Borer	0	0	0	0	0	0	4	0	0	0	0	0	4
Stink Bugs	0	0	0	0	0	0	1	2	1	0	0	0	4
	RECEIVED					3 TIMES							
Aphids						Ground Beetles							
Armyworm						Potato Leafhopper							
Blister Beetles						Sap Beetles							
Cereal Leaf Beetle						Wireworms							
Could Not Diagnose													
	RECEIVED					2 TIMES							
Cicada Killer						Root Maggots							
Clover Leaf Weevil						Seedcorn Maggot							
Clover Root Curculio						Sod Webworms							
Corn Leaf Aphid						Spider Mites							
Harlequin Bug						Squash Bug							
Lady Beetles						Thrips							
Mites						Twospotted Spider Mite							
Pyralid Moths													
	RECEIVED					1 TIME							
Alfalfa Blotch Leafminer						Pea Moth							
Alfalfa Weevil						Pickleworm							
Asparagus Beetle						Plant Bugs							
Assassin Bugs						Potato Scab Gnat							
<u>Ataenius spretulus</u>						Potato Tuberworm							
Bigeyed Bugs						Potter Wasps							
Bristly Cutworm						Seed Bugs							
Carrot Beetle						Silverspotted Skipper							
Click Beetles						Slugs							
Colorado Potato Beetle						Soldier Beetles							
Corn Earworm						Soldier Flies							
Corn Rootworms						Southern Corn Rootworm							
Corn Sap Beetle						Sphinx Moths							
Cowpea Curculio						Squash Vine Borer							
Cross-Striped Cabbageworm						Sunflower Seed Midge							
Digger Bees						Swallowtail Butterflies							
Dingy Cutworm						Syrphid Flies							
Earthworms						Termites							
Fall Armyworm						Tiger Beetles							
Garden Symphylan						Tortoise Beetles							
Io Moth						Weevils							
Leaffooted Bugs						Wheat Stem Sawfly							
Locust Leafminer						Whiteflies							
Millipedes						Whitelined Sphinx							
Mole Crickets													

MOST FREQUENTLY RECEIVED ARTHROPODS

GENERAL

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Sphinx Moths	0	0	0	0	1	1	1	2	1	0	0	0	6
Polyphemus Moth	0	0	0	0	0	3	0	1	0	0	0	0	4
Mosquitoes	RECEIVED 3 TIMES												
Tiger Moths	RECEIVED 2 TIMES												
Black Soldier Fly	Lady Beetles												
Buck Moth Caterpillar	Leopard Moth												
Cecropia Moth	Midges												
Eastern Hercules Beetle	Millipedes												
Eastern Tent Caterpillar	Mole Crickets												
Geometrid Moths	Noctuid Moths												
Great Leopard Moth	<u>Pinotus carolinus</u>												
Gypsy Moth	<u>Puss Caterpillar</u>												
Hickory Horned Devil	Rove Beetles												
Horsehair Worms	Snowfleas												
Io Moth	Solitary Bees												
Jumping Spiders	RECEIVED 1 TIME												
Allegheny Mound Ant	Moth Pupae												
<u>Anomala flavipennis</u>	Netwinged Beetles												
Ants	No Insects Found												
<u>Blaberus discoidales</u>	Not An Insect												
Black Flies	Orb Weavers												
Brownhooded Cockroach	Pine Tube Moth												
Buckeye Butterfly	Pine Webworm												
Bumblebee Moth	Pinkstriped Oakworm												
Carpenter Ants	Praying Mantids												
Checkered Beetles	Regal Moth												
Cicada Killer	Sap Beetles												
Darkwinged Fungus Gnats	Scoliid Wasps												
Doodlebugs	Seed Beetles												
Earthworms	Seed Weevils												
Eastern Pine Looper	Silverfish												
<u>Euphoria herbacea</u>	Smaller Yellow Ant												
Forest Tent Caterpillar	Sowbugs												
Gall Midges	Spiders												
Gall Wasps	Spruce Mite												
Glowworms	Stalk Borer												
Ground Beetles	Stiletto Flies												
Hag Moth	<u>Tapinoma sessile</u>												
Half Winged Geometer	Termites												
Halictid Bees	Terrestrial Flatworms												
Hickory Tussock Moth	Threadwaisted Wasps												
Honeydew	Tiphid Wasps												
Imperial Moth	Tobacco Hornworm												
Larger Yellow Ant	Twospotted Spider Mite												
Lesser Mealworm	<u>Ummidia audouini</u>												
March Flies	Water Boatmen												
Mites	Weevils												
Moth Flies	Wheel Bug												

## MOST FREQUENTLY RECEIVED ARTHROPODS

## LAWN AND TURF

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Allegheny Mound Ant	0	0	0	0	2	0	1	1	0	0	0	0	4
Ground Beetles	0	0	0	0	0	3	0	0	0	1	0	0	4
	RECEIVED 3 TIMES												
Velvet Ants	RECEIVED 2 TIMES												
Cicada Killer							Scoliid Wasps						
Japanese Beetle							Sod Webworms						
Millipedes							Solitary Bees						
No Insects Found							Threadwaisted Wasps						
	RECEIVED 1 TIME												
Aphodian Dung Beetles							Green June Beetle						
Bumble Bees							Green Lacewings						
Burrowing Webworms							Larger Yellow Ant						
Chinch Bug							Mason Wasps						
Cicadas							Mole Cricket						
Could Not Diagnose							Not An Insect						
Crane Flies							Plant Bugs						
Dragonflies							Tiphiid Wasps						
European Hornet							White Grubs						
Face Fly							Yellowjackets						

## MOST FREQUENTLY RECEIVED ARTHROPODS

## ANIMAL

	RECEIVED 2 TIMES											
Grain Mite	RECEIVED 1 TIMES											
Biting Lice							House Fly					
Black Soldier Fly							Leaches					
Cat Flea							Lesser Mealworm					
Cattle Biting Louse							Sheep Bot					
Dark Mealworm							Ticks					
Fleas							Yellow Mealworm					
Hide Beetle												

HUMAN MOST FREQUENTLY RECEIVED ARTHROPODS

RECEIVED 2 TIMES

No Insects Found

RECEIVED 1 TIME

American Dog Tick	Ctenuchid Moths
Bird Mites	Halictid Bees
Buck Moth Caterpillar	Honey Bee
Crab Louse	Jumping Spiders

STORED PRODUCTS MOST FREQUENTLY RECEIVED ARTHROPODS

RECEIVED 1 TIME

Booklice	No Insects Found
Carpet Beetles	Pecan Weevil
Corn Earworm	Redlegged Ham Beetle
Indianmeal Moth	

APICULTURAL MOST FREQUENTLY RECEIVED ARTHROPODS

RECEIVED 1 TIME

Honey Bee

## COUNTY SUMMARY

COUNTY -----	SPECIMENS -----
Albemarle	40
Alexandria(City)	17
Alleghany	16
Amelia	20
Amherst	7
Appomattox	23
Arlington	27
Augusta	51
Bath	1
Bath	1
Bedford	32
Bland	3
Botetourt	19
Brunswick	7
Buchanan	2
Buckingham	2
Buena Vista(IC)	1
Campbell	7
Caroline	13
Carroll	35
Charles City	5
Charlotte	2
Charlottesville	18
Chesapeake(City)	34
Chesterfield	13
Clarke	17

COUNTY SUMMARY

COUNTY	SPECIMENS
-----	-----
Clifton Forge(IC)	1
Craig	4
Culpepper	12
Cumberland	6
Danville(City)	12
Dickenson	9
Dinwiddie	15
Essex	4
Fairfax	23
Fauquier	19
Floyd	19
Franklin	13
Frederick	30
Fredericksburg(IC)	1
Galax(IC)	1
Giles	18
Gloucester	11
Goochland	3
Grayson	6
Greene	7
Greensville	4
Halifax	3
Hampton(City)	34
Hanover	73
Henrico	67
Henry	43
Highland	17
Isle of Wight	6



## COUNTY SUMMARY

COUNTY	SPECIMENS
-----	-----
James City	49
King and Queen	2
King George	7
King William	2
Lancaster	7
Lee	11
Loudoun	27
Louisa	10
Lunenburg	20
Lynchburg(City)	42
Madison	6
Mathews	21
Mecklenburg	10
Middlesex	6
Montgomery	156
Nelson	4
New Kent	7
Newport News	8
Norfolk(City)	16
Northampton	1
Northumberland	1
Nottoway	7
Orange	17
Page	7
Patrick	8
Petersburg(City)	4

## COUNTY SUMMARY

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COUNTY	SPECIMENS
-----	-----
Pittsylvania	7
Portsmouth(IC)	1
Powhatan	8
Prince Edward	13
Prince George	17
Prince William	24
Pulaski	28
Rappahannock	17
Richmond	5
Richmond(City)	21
Roanoke	28
Roanoke(City)	14
Rockbridge	9
Rockingham	52
Russell	4
Scott	16
Shenandoah	10
Smyth	9
Southampton	3
Spotsylvania	8
Stafford	35
Suffolk(City)	14
Surry	7
Sussex	14
Tazewell	16
Virginia Beach	3

## COUNTY SUMMARY

COUNTY	SPECIMENS
-----	-----
Warren	28
Washington	8
Waynesboro(IC)	1
Westmoreland	23
Wise	6
Wythe	23
York	<u>3</u>
TOTAL	1815

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