

# **INSECT IDENTIFICATION LABORATORY**

## **ANNUAL REPORT 1982**

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## INTRODUCTION

This report summarizes the activity of the Insect Identification Laboratory at Virginia Tech for 1982. The laboratory is located in 312 Price Hall. It is managed by Daniel J. Hilburn under the supervision of William A. Allen. This year, two work-study students, Greg Carter and Doug McGraw, and a summer intern from the Integrated Pest Management Program at Virginia Tech, Karen Hildebrand, provided assistance during peak periods.

Specimens are identified and recorded in the lab, then sent to Extension Entomologists who handle particular commodity groups for control recommendations and additional comments. 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

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.

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 2,004 requests were received in 1982, many of them with more than one insect problem per request. This causes discrepancies between the number of specimens received and the number of insects identified. The record high for the laboratory occurred in 1981 when 2,028 specimens were received.

Persons providing identifications and/or control recommendations:

Mr. Daniel J. Hilburn. . . . .General  
Laboratory Specialist

Dr. John A. Weidhaas, Jr . . . . .Ornamentals  
Extension Entomologist

Dr. William H. Robinson. . . . . Household and Structural Wood,  
Extension Entomologist        Fruits and Nuts, Lawn and Turf, Human

Dr. James E. Roberts, Sr. . . . .Vegetables, Field Crops, and Animal  
Extension Entomologist

Dr. William A. Allen . . . . .General  
Extension Entomologist

Dr. Boris C. Kondratieff . . . . .General  
Research Associate

Dr. Michael Kosztarab. . . . .Scale Insects  
Professor of Entomology

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

Mr. John M. Luna. . . . . Alfalfa  
Extension Entomologist

Dr. Sidney L. Poe. . . . .Mites  
Head, Department of Entomology

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
TOTAL	21197	6150	2202

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

<sup>b</sup>Estimated figure.

SPECIMENS RECEIVED BY THE INSECT IDENTIFICATION LABORATORY IN 1982

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL	% of TOTAL
Ornamentals, Shade Trees	13	11	57	52	136	151	101	106	86	63	31	21	828	41%
Household, Structural Wood	10	32	44	47	81	73	46	37	50	57	43	20	540	27%
General	4	4	8	22	50	29	30	26	27	18	12	3	223	12%
Vegetables, Field Crops, Forage	-	4	4	3	25	45	40	29	15	8	1	2	176	9%
Fruits, Nuts	4	2	5	5	18	19	30	19	14	8	4	-	128	6%
Lawn, Turf	1	-	1	7	15	3	10	13	6	2	-	-	58	3%
Human	1	-	1	1	-	5	-	4	-	2	1	2	17	1%
Animal	2	1	1	1	3	-	1	2	-	-	1	-	12	0.6%
Stored Products	-	2	2	-	-	1	1	-	-	4	1	-	11	0.5%
Apiculture	-	-	-	-	-	-	-	1	-	-	-	-	1	0.05%
<b>TOTAL</b>	<b>35</b>	<b>56</b>	<b>123</b>	<b>138</b>	<b>328</b>	<b>326</b>	<b>259</b>	<b>237</b>	<b>198</b>	<b>162</b>	<b>94</b>	<b>48</b>	<b>2004</b>	
<b>% OF TOTAL</b>	<b>2%</b>	<b>3%</b>	<b>6%</b>	<b>7%</b>	<b>16%</b>	<b>16%</b>	<b>13%</b>	<b>12%</b>	<b>10%</b>	<b>8%</b>	<b>5%</b>	<b>2%</b>		

MOST FREQUENTLY RECEIVES ARTHROPODS  
ORNAMENTALS AND SHADE TREES

	J	F	M	A	M	J	J	A	S	O	N	D	TOTAL
Not an insect <sup>a</sup>	1	-	4	7	7	14	4	8	4	5	3	2	59
Spruce Mite	1	-	3	1	4	14	10	3	1	-	1	-	38
Galls <sup>b</sup>	-	-	1	1	7	8	6	3	3	1	2	-	32
Aphids <sup>b</sup>	-	-	1	-	6	7	2	-	4	3	3	-	26
Boxwood Mite	-	-	5	4	1	5	5	-	-	1	1	-	22
Euonymus Scale	-	1	3	6	1	2	-	1	2	3	1	-	20
White Peach Scale	1	-	2	-	3	1	-	1	3	1	3	-	15
Bark Beetles <sup>b</sup>	-	-	1	1	-	1	2	1	3	2	2	2	15
Unidentified <sup>c</sup>	1	1	-	-	2	3	-	6	2	-	-	-	15
White Pine Aphids	-	2	3	-	2	1	-	-	-	2	2	2	14
Pine Bark Adelgid	-	-	3	5	4	-	-	-	-	1	1	-	14
Mapple Bladder Gall	-	-	-	-	4	6	1	2	1	-	-	-	14
Buck Moth Caterpillar	-	-	-	-	3	8	3	-	-	-	-	-	14
Sooty Molds	-	-	1	-	1	1	1	1	1	4	-	3	13
Boxwood Psyllid	-	-	3	2	3	2	-	-	1	1	-	-	12
Caterpillars <sup>b</sup>	-	-	-	-	3	2	1	1	3	2	-	-	12
Greenstriped Mapleworm	-	-	-	-	1	5	4	1	1	-	-	-	12
Pine Needle Scale	-	-	2	2	2	-	2	-	-	2	-	1	11
Ladybird Beetles	1	-	-	1	-	5	-	1	2	-	-	-	10
Boxwood Leafminer	-	-	3	1	-	1	2	1	-	2	-	-	10
Two-Spotted Spider Mite	1	1	-	1	1	3	-	1	-	-	1	-	9

	J	F	M	A	M	J	J	A	S	O	N	D	TOTAL
Obscure Scale	-	1	2	-	1	1	-	3	-	-	-	1	9
Azalea Lacebug	-	-	1	-	-	1	1	-	3	2	-	-	8
Scale Insects <sup>b</sup>	-	-	2	1	2	-	-	3	-	-	-	-	8
Orangestriped Oakworm	-	-	-	-	-	-	-	4	3	1	-	-	8
Hemispherical Scale	3	1	1	1	-	-	-	-	-	1	-	-	7
Bagworm	-	-	1	-	-	-	1	2	2	-	1	-	7
White Pine Weevil	-	-	2	1	-	1	-	1	-	1	1	-	7
Juniper Scale	-	-	1	1	2	-	-	-	1	-	1	1	7
Oyestershell Scale	-	-	1	-	2	1	-	2	-	1	-	-	7
Tuliptree Scale	-	-	-	1	1	-	2	1	2	-	-	-	7
Pine Tip Moths	-	-	-	2	-	1	-	1	1	1	1	-	7
Lace Bugs	-	-	-	-	1	2	-	-	1	-	3	-	7
Vein Pocket Gall	-	-	-	-	2	2	2	1	-	-	-	-	7
Hackberry Leaf Slug	-	-	-	-	-	-	-	4	3	-	-	-	7
Praying Mantis Egg Cases	2	-	-	1	1	-	-	-	1	-	-	1	6
Southern Red Mite	-	-	2	-	1	2	1	-	-	-	-	-	6
Spiny Elm Caterpillar	-	-	-	-	6	-	-	-	-	-	-	-	6
Leafhoppers	-	-	-	-	-	1	4	-	-	1	-	-	6
Twig Pruner	-	-	-	-	-	-	2	2	1	-	1	-	6
Walnut Caterpillar	-	-	-	-	-	-	2	3	1	-	-	-	6
Mulberry Whitefly	-	-	-	-	-	-	-	-	1	5	-	-	6
Mealybugs	1	-	2	-	-	-	1	1	-	-	-	-	5



	J	F	M	A	M	J	J	A	S	O	N	D	TOTAL
Fungus Gnats	-	1	-	1	1	1	-	-	-	-	-	1	5
Oak Lecanium Scale	-	-	-	1	2	-	-	2	-	-	-	-	5
March Flies	-	-	-	2	3	-	-	-	-	-	-	-	5
Gypsy Moth	-	-	-	-	1	1	2	1	-	-	-	-	5
Spiders	-	-	-	-	2	1	-	-	2	-	-	-	5
Sawflies	-	-	-	-	-	2	2	1	-	-	-	-	5
Psocids	-	-	-	-	-	-	3	1	1	-	-	-	5
Hickory Horned Devil	-	-	-	-	-	-	-	2	3	-	-	-	5
San Jose Scale	1	-	-	-	-	1	-	1	-	-	1	-	4
Pine Webworm	-	-	1	-	-	-	-	-	1	1	1	-	4
Insect Eggs	-	-	-	-	1	-	1	1	-	-	-	1	4
Fiorinia Hemlock Scale	-	-	2	1	-	-	1	-	-	-	-	-	4
Whiteflies	-	-	-	-	3	-	-	1	-	-	-	-	4
Hickory Leaf- Stem Gall	-	-	-	-	3	-	-	-	-	1	-	-	4
Forest Tent Caterpillar	-	-	-	-	4	-	-	-	-	-	-	-	4
Soldier Beetles	-	-	-	-	2	2	-	-	-	-	-	-	4
Treehoppers	-	-	-	-	1	1	-	-	-	-	-	2	4
Thrips	-	-	-	-	1	1	-	-	1	1	-	-	4
Earwigs	-	-	-	-	-	2	2	-	-	-	-	-	4
Woolly Alder Aphid	-	-	-	-	-	3	-	-	-	1	-	-	4
Dogwood Sawfly	-	-	-	-	-	-	-	4	-	-	-	-	4

## Arthropods of Ornamentals Received 3 Times

Azalea Leafminer	Imperial Moth Caterpillar
Borers <sup>b</sup>	Japanese Scale
Boxwood Webworm	Juniper Webworm
Brown Soft Scale	Locust Leafminer
Cottony Maple Leaf Scale	May Beetles
Boxwood Club Gall	Pine Tortoise Scale
<u>Epismus tyrius</u>	Puss Caterpillar
European Hornet	Redhumped Caterpillar
Fall Webworm	Rhododendron Borer
Fourlined Plant Bug	Roundheaded Borers
Giant Bark Aphid	Slippery Elm Pouch Gall
Gloomy Scale	Wheel Bug
	Woolly Apple Aphid

## Arthropods of Ornamentals Received 2 Times

Aphidlions	Hickory Peach Gall
Arborvitae Leafminer	Honeylocust Plant Bug
Azalea Stem Borer	Horntails
Azalea Whitefly	Iris Borer
Balsam Twig Aphid	Io Moth
Barberry Webworm	Japanese Weevil
Carpenterworm	Juniper Leafminer
Cecropia Moth	Katydid Eggs
Coolley Spruce Gall	Leaf Beetles
Cottony Camellia Scale	Linden Wart Gall
Cutworms	Longhorned Beetles
Darkling Beetle	Millipedes
Dogwood Borer	Mimosa Webworm
Eastern Pine Shoot Borer	Oak Kermes
Eastern Spruce Gall	Oak Lacebug
Elm Leaf Beetle	Oak Skeletonizer
European Fruit Lecanium	Parasitic Wasps
Fall Cankerworm	Pinkstriped Oakworm
Fern Scale	Rose Chafer
Flatid Planthoppers	Rose Midge
Flea Beetles	Spittlebugs
Fletcher Scale	Spring Cankerworm
Flower Flies	Tiger Moth
Greedy Scale	Yellownecked Caterpillar

## Arthropods of Ornamentals Received 1 Time

Azalea Caterpillar	Oak Spangles
Azalea Bark Scale	Oak Timberworm
Beaked Willow Gall	Oak Webworm
Bess Beetles	Orange Dog Caterpillar
Branch and Twig Borer	Oribatid Mites
Burrower Bugs	Peach Tree Borer
Butterfly Chrysalis	<u>Pineus floccus</u>
Cabbage Looper	Pit-Making Scale
<u>Camerarial</u> sp.	Plant Bugs

Carrot Beetle	Pleasing Fungus Beetle
Catalpaworm	Polyphemus Moth
Centipedes	Poplar Tent Maker
Checkered Beetles	Praying Mantis
Cicadas	Psyllids <sup>b</sup>
Clover Mite	Pyralid Moths
Common Stalk Borer	Redheaded Ash Borer
Corn Earworm	Redheaded Pine Sawfly
Cottony Maple Scale	Rose Slug
Cypress Tip Moth	Rosy Maple Moth
Deodar Weevil	Roundheaded Apple Tree Borer
Digger Wasps	Rove Beetles
Dogwood Twig Borer	Saddleback Caterpillar
Dung Beetles	Sap Beetles
Eastern Tent Caterpillar	Scarred Willow Gall
<u>Euphoria sepulchralis</u>	Shothole Borer
European Corn Borer	Snout Beetles
Firefly Larva	Sowbugs
Flat Bark Beetle	Spotted Cucumber Beetle
Flat Bark Bug	Stilt Bugs
Golden Oak Scale	Tanbark Borer
Hawthorn Lace Bug	Termites
Hemlock Rust Mite	True Armyworm
Hemlock Woolly Adelgid	Tulip Poplar Crown Borer
Hickory Tiger Moth	Tussock Moths
Holly Leafminer	Twolined Spittlebug
<u>Hoplia</u> sp.	Underwing Moth Caterpillar
Horned Oak Gall	Unicorn Caterpillar
Horsehair Worm	Viceroy Butterfly
Humpbacked Caterpillar	Virginia Pine Sawfly
Imported Willow Leaf Beetle	Violet Tip Butterfly
Japanese Beetle	White-Marked Tussock Moth
Larger Elm Leaf Beetle	White Pine Sawfly
Leaf tiers	Willow Shoot Sawfly
Luna Moth	Wool Sower Gall
Meadow Plant Bug	Woolly Beach Leaf Aphid
Moths <sup>b</sup>	Woolly Elm Aphid
Narcissus Bulb Fly	Woolly Pine Scale
Noctuid Moths	Yellow Woollybear
Oak Sawfly	Yucca Plant Bug

<sup>a</sup>Symptoms indicated a disease or physiological condition not of insect origin.

<sup>b</sup>Some species within this broad category were identified and recorded separately.

<sup>c</sup>Problem could not be diagnosed from the specimen received.

MOST FREQUENTLY RECEIVED ARTHROPODS  
HOUSEHOLDS AND STRUCTURAL WOOD

	J	F	M	A	M	J	J	A	S	O	N	D	TOTAL
Carpet Beetles	-	1	4	8	5	6	4	-	1	2	11	2	44
Termites	-	-	7	14	9	6	2	-	1	-	-	1	40
Indian Meal Moth	4	6	5	1	5	-	2	2	2	6	4	-	37
Carpenter Ants	-	2	1	2	8	4	2	1	1	1	2	-	24
Ants <sup>b</sup>	1	1	1	-	2	2	-	2	3	-	1	1	14
Blow Flies	-	-	1	-	2	3	1	-	3	1	1	2	14
Soldier Beetles	-	-	-	-	1	-	-	-	1	11	1	-	14
Longhorned Beetles	-	2	5	-	3	2	-	-	-	1	-	-	13
Saw-Toothed Grain Beetle	-	2	1	2	1	-	1	2	-	2	-	1	12
Ground Beetles	-	-	-	-	3	5	1	-	3	-	-	-	12
Moth Flies	-	1	2	-	1	-	4	2	-	-	-	-	10
Black Larder Beetle	-	-	-	-	1	8	1	-	-	-	-	-	10
Old House Borer	-	-	1	-	1	1	2	-	-	3	-	1	9
Millipedes	1	-	-	-	-	1	1	-	1	-	2	2	8
Earwigs	-	-	-	-	1	2	1	3	1	-	-	-	8
Fleas	-	-	-	-	-	1	2	-	1	-	2	2	8
Nut Weevils	-	-	-	-	-	1	-	-	-	5	2	-	8
Clothes Moths	-	3	-	-	2	1	-	-	-	1	-	-	7
Fruit Flies	-	-	2	1	-	-	-	-	-	2	2	-	7
Asiatic Oak Weevil	-	-	-	-	-	-	-	-	5	1	1	-	7
Cluster Flies	1	1	1	-	-	-	-	-	-	1	1	1	6
Wood Roaches	-	-	1	1	1	1	1	-	-	1	-	-	6
Yellow Mealworm	-	-	1	2	-	1	1	-	1	-	-	-	6

	J	F	M	A	M	J	J	A	S	O	N	D	TOTAL
Midges	-	-	1	1	1	1	1	-	-	1	-	-	6
European Hornet	-	-	-	-	2	1	1	-	1	1	-	-	6
Book Lice	-	-	-	-	-	-	2	-	2	-	-	2	6
Roundheaded Borer	-	1	-	2	-	-	-	-	1	-	1	-	5
Locust Borer	-	1	2	2	-	-	-	-	-	-	-	-	5
Bark Beetles	1	-	-	1	-	1	2	-	-	-	-	-	5
Rice Weevil	-	-	3	-	-	-	-	-	-	-	1	1	5
Parasitic Wasps	-	-	-	1	1	3	-	-	-	-	-	-	5
Springtails	-	-	-	1	-	2	1	-	-	-	-	1	5
Yellowjackets	-	-	-	-	1	-	1	-	1	2	-	-	5
Not an Insect <sup>a</sup>	-	-	-	-	-	1	1	-	1	1	1	-	5
Brown Lacewing	1	-	-	-	-	-	-	-	2	-	-	1	4
Smaller Yellow Ant	1	-	-	-	-	-	-	-	-	-	3	-	4
Spider Beetles	-	-	1	-	-	1	1	-	-	-	-	1	4
Spiders <sup>b</sup>	-	-	1	-	-	-	-	-	-	3	-	-	4
Fungus Gnats	-	-	-	1	-	1	1	1	-	-	-	-	4
Humpbacked Flies	-	-	-	1	1	-	-	1	-	-	1	-	4
Pavement Ant	-	-	-	-	1	2	1	-	-	-	-	-	4
Bed Bugs	-	-	-	-	3	1	-	-	-	-	-	-	4
Mediterranean Flour Moth	-	-	-	-	1	1	2	-	-	-	-	-	4
Spider Wasps	-	-	-	-	-	-	1	-	2	1	-	-	4
Moth Pupae	-	-	-	-	-	1	-	1	1	-	1	-	4
Powder Post Beetles	-	-	-	-	-	1	-	2	-	1	-	-	4
Face Fly	-	-	-	-	-	-	-	-	-	2	2	-	4

## Arthropods from Households and Structural Wood Received 3 Times

Angoumois Grain Moth	Mole Cricket
Burrower Bugs	Moths <sup>b</sup>
Carpenter Bees	Murky Meal Moth
Cigarette Beetle	Picture-Winged Flies
Click Beetles	Thrips
Clover Mite	Wolf Spiders
Green June Beetle	

## Arthropods from Households and Structural Wood Received 2 Times

American Cockroach	Larger Yellow Ants
Aphids	Lesser Mealworm
Black Vine Weevil	Meal Moth
Checkered Beetle	Metalic Wood Borers
Darkling Beetles	Psocids
Digger Wasps	Rove Beetles
Elm Leaf Beetle	Sawflies
German Cockroach	Small Winter Stonefly
Grain Mites	Solitary Bees
Horsehair Worm	Sowbugs
House Centipede	Stoneflies
Lady Beetles	

## Arthropods from Households and Structural Wood Received 1 Time

<u>Anisota virginiensis</u>	Leafhoppers
Aphid Wasps	Locust Borer
Assasin Bugs	Locust Leafminer
Banded Hickory Borer	Mason Wasps
Biting Midges	Mayflies
Boxelder Bug	Minute Brown Scavenger Beetles
Branch and Twig Borers	Oriental Cockroach
Broadheaded Bugs	Psyllids
<u>Callidium cantennatum</u>	Rat-Tailed Maggot
Camel Crickets	Red Flour Beetle
Caterpillars <sup>b</sup>	Redheaded Ash Borer
Centipede <sup>b</sup>	Red-Legged Ham Beetle
Cowpea weevil	Silverfish
<u>Dynastes tityus</u>	<u>Small Dung Flies</u>
Eastern Pine Looper	Snails
Flat Oak Borer	Snipe Flies
Flatheaded Borers	Snout Beetles
Flour Beetles	Soft-Winged Flower Beetle
Fly Pupae	Soldier Fly
Fungus Gnats	Sphinx Moths
Glow Worm	Tanbark Borer
Hister Beetles	Ticks
<u>Hoplia sp.</u>	Tiger Moths
House Cricket	Tile-Horned Prionus

House Fly  
Lacebugs  
Larger Yellow Ant  
Leaf Cutter Bees

Tortoise Beetle  
Wax Moth  
Wheel Bug  
Wood Wasps

<sup>a</sup>Symptoms indicated a disease or physiological condition not of insect origin.

<sup>b</sup>Some species within this broad category were identified and recorded separately.

MOST FREQUENTLY RECEIVED ARTHROPODS  
GENERAL

	J	F	M	A	M	J	J	A	S	O	N	D	TOTAL
Not an Insect <sup>a</sup>	-	-	1	1	-	1	-	1	2	1	-	1	8
Noctuid Moths	-	1	-	1	-	3	-	1	-	-	1	-	7
Wheel Bug	-	-	1	1	-	2	-	-	-	1	2	-	7
European Hornet	-	-	-	1	3	2	-	-	-	1	-	-	7
Moths <sup>b</sup>	-	-	-	1	1	-	1	1	1	1	-	-	6
Sphinx Moth	-	-	-	1	2	-	1	-	2	-	-	-	6
Smaller Yellow Ants	-	-	-	-	-	-	-	-	-	1	5	-	6
Spiders <sup>b</sup>	-	-	-	1	-	-	-	-	-	3	1	-	6
Eastern Pine Looper	-	-	3	1	-	-	-	-	-	-	-	-	4
Lady Beetles	-	-	-	3	1	-	-	-	-	-	-	-	4
Ants <sup>b</sup>	-	-	-	1	1	1	-	-	1	-	-	-	4
Tiger Moths	-	-	-	1	1	2	-	-	-	-	-	-	4
Rove Beetles	-	-	-	-	2	-	2	-	-	-	-	-	4
Termites	-	-	-	-	3	-	-	1	-	-	-	-	4
Eastern Tiger Swallowtail	-	-	-	-	-	1	-	1	2	-	-	-	4

## General Arthropods Received 3 Times

Butterfly Chrysalis	Rhinocerus Beetle
Ground Beetles	Roundheaded Borers
Horsehair Worm	Spiney Elm Caterpillar
March Flies	Tachinid Flies
Polyphemus Moth	Velvet Ant

## General Arthropods Received 2 Times

Acraea Moth	Great Leopard Moth
Aphids	Hag Moth
Bumble Bees	Japanese Weevil
Caddisflies	Jumping Spiders
Carpenter Bees	Locust Leafminer
Carpenterworm	Luna Moth
Carrot Beetle	Milkweed Tiger Moth
Centipedes	Puss Caterpillars
Corn Earworm	Sawflies
Crane Flies	Small Winter Stonefly
Eastern Tent Caterpillar	Soldier Flies
Fungus Gnats	Springtails

## General Arthropods Received 1 Time

Alleghany Mound Ant	Larger Yellow Ants
American Dog Tick	Leaf Beetles
American Plum Borer	Leaf-Footed Bugs
Apple Curculio	Long-Horned Beetles
<u>Artace cribraria</u>	May Beetles
Asiatic Oak Weevil	Mayflies
Back Swimmers	Midge Milkweed Bugs
Bald Faced Hornet	Mosquito
Black Cutworm	Net-Winged Beetle
Blackflies	Notodontid Moths
Blister Beetles	Old House Borer
Blow Flies	Orangestriped Oakworm
Boxelder Bug	Pale Tiger Moth
Branch and Twig Borers	Pansy Fritillary
Buck Moth	Paper Wasps
Burrower Bugs	Pillbugs
Camel Crickets	Praying Mantis Egg Cases
Catalpa Sphinx	Rat-Tailed Maggots
Cecropia Moth	Red Flour Beetle
Cereal Leaf Beetle	Redheaded Pine Sawfly
Checkered Beetles	Royal Walnut Moth
Cigarette Beetle	Rustic Sphinx Moth
Click Beetles	Saltmarsh Caterpillar
Clothes Moths	Sap Beetles
Clover Mite	Sepsid Flies
Cuckoo Bee	Slugs
Digger Wasps	Snow Fleas
Dobsonfly	Soldier Beetles



Dung Beetles	Sphecid Wasps
Eastern Tent Caterpillar	Spring Cankerworm
European Corn Borer	Stillete Flies
Eyed Elater	Stink Bugs
Fleas	Tentacled Prominent
Footman Moth	Tiled-Horned Prionus
Forest Tent Caterpillar	Underwing Moths
Harlequin Bug	Wasp Pupae
Hickory Horned Devil	White Grubs
House Cricket	White Marked Tussock Moth
Imperial Moth	Wood Gnats
Insect Eggs	Woolly Alder Aphid
Japanese Beetle	Yellowjackets
Lacewings	

<sup>a</sup>Symptoms indicated a disease or physiological condition not of insect origin.

<sup>b</sup>Some species within this broad category were identified and recorded separately.

MOST FREQUENTLY RECEIVED ARTHROPODS  
VEGETABLES AND FIELD CROPS

	J	F	M	A	M	J	J	A	S	O	N	D	TOTAL
Not an Insect <sup>a</sup>	-	-	-	-	2	8	2	1	2	-	1	-	16
Fall Armyworm	-	-	-	-	-	1	5	7	-	-	-	-	13
Cereal Leaf Beetle	-	-	-	1	5	3	1	-	-	-	-	-	10
Potato Leafhopper	-	-	-	-	-	1	6	1	-	-	-	-	8
Aphids <sup>b</sup>	-	-	-	-	-	1	3	1	-	-	-	2	7
Ground Beetles	-	-	-	-	-	6	-	-	-	-	-	-	6
Sap Beetles	-	-	-	-	-	1	3	-	1	-	-	-	5
Common Stalk Borer	-	-	-	-	-	2	2	-	-	-	-	-	4
Alfalfa Blotch Leafminer	-	-	-	-	-	-	2	1	-	1	-	-	4
Two-Spotted Spider Mites	-	-	-	-	-	1	2	1	-	-	-	-	4
Stink Bugs	-	-	-	-	-	-	-	3	1	-	-	-	4

Arthropods of Vegetables and Field Crops Received 3 Times

Anthomyid Flies with Fungus Disease	Northern Corn Rootworm
European Corn Borer	Pickleworm
Lady Beetles	Seedcorn Maggot
	Squash Bug

Arthropods of Vegetables and Field Crops Received 2 Times

Burrower Bugs	Unidentified <sup>C</sup>
Carrot Beetle	Cross-Striped Cabbageworm
Climbing Cutworms	Flea Beetles
Colorado Potato Beetle	Harlequin Bug
Corn Earworm	Mexican Bean Beetle

Arthropods of Vegetables and Field Crops Received 1 Time

Alfalfa Butterfly	Millipedes
Bean Leaf Beetle	Moth Pupae
Bean Weevil	Oak Lecanium Scale
Billbug	Onion Maggot
Black Cutworm	Pea Aphids
Bronzed Cutworm	Picture-Winged Flies
Cabbage Curculio	Plant Bugs
Cabbage Looper	Potato Scab Gnat
Cabbage Maggot	Potato Tuberworm
Carrot Weevil	Rhubarb Curculio
Chestnut Weevil	Root Aphids
Cicada Killer	Rove Beetle
Clover Leaf Weevil	Saddleback Caterpillar
Clover Root Curculio	Scarab Beetle
Corn Root Aphids	Serpentine Leafminer
Cowpea Weevil	Slugs
Cutworms	Smearred Dagger Moth
Earthworms	Soldier Flies
Flower Flies	Solitary Bees
Fly Pupae	Soybean Looper
Fruit Flies	Sphinx Moths
Gall Midges	Spider Mites
Green Cloverworm	Striped Cucumber Beetle
Green June Beetle	Sunflower Moth
Hercules Beetle	Tarnished Plant Bug
Hessian Fly	Termites
Imported Cabbageworm	Thrips
Insect Eggs	Tomato Pinworm
March Flies	True Armyworm

Mealybugs  
 Midges  
 Milkweed Beetle

Underwing Moths  
 Wheel Bug  
 Woollybear Caterpillar

<sup>a</sup>Symptoms indicated a disease or physiological condition not of insect origin.

<sup>b</sup>Some species within this broad category were identified and recorded separately.

<sup>c</sup>Problem could not be diagnosed from the specimen received.

MOST FREQUENTLY RECEIVED ARTHROPODS  
 FRUITS AND NUTS

	J	F	M	A	M	J	J	A	S	O	N	D	TOTAL
Not an Insect <sup>a</sup>	1	-	-	-	1	3	-	1	2	-	1	-	9
Grape Phylloxera Galls	-	-	-	-	-	-	3	3	-	1	-	-	7
Plum Curculio	-	-	-	-	-	1	2	1	1	-	-	-	5
Walnut Caterpillar	1	-	-	-	-	-	-	1	2	-	-	-	4
Aphids <sup>b</sup>	1	-	-	-	-	-	-	1	2	-	-	-	4
San Jose Scale	-	1	2	1	-	-	-	-	-	-	-	-	4
White Peach Scale	-	-	1	1	-	-	1	-	-	1	-	-	4
Apple Maggot	-	-	-	-	-	-	-	1	1	1	1	-	4

Arthropods of Fruits and Nuts Received 3 Times

Anthomyid Flies  
 with Fungus Disease  
 Eastern Tent Caterpillar  
 Locust Leafminer

Mite Galls  
 Sap Beetles  
 Spider Mites

Arthropods of Fruits and Nuts Received 2 Times

Bagworm  
 Blackberry Psyllid  
 Blister Beetles  
 Flower Flies  
 Fly Maggots  
 Grape Filbert Gall  
 Grape Sawfly

Grape Tube Gall  
 Millipedes  
 Pear Psylla  
 Praying Mantis Eggs  
 Soldier Beetles  
 Woolly Apple Aphid

## Arthropods of Fruits and Nuts Received 1 Time

Ants	Grapevine Beetle
Bark Beetles	Leaf Beetles
Beetle Pupae	March Flies
Branch and Twig Borers	Phylloxera Galls
Centipedes	Redheaded Ash Borer
Cicadas	Redhumped Caterpillar
Codling Moth	Roundheaded Apple Tree Borer
Cyclamen Mites	Sawflies
Dogwood Borer	Spiders
European Hornet	Spring Cankerworm
Fall Webworm	Thrips
Flatheaded Borers	Twig Pruner
Galls <sup>b</sup>	Underwing Moths
Grape Plume Moth	Unidentified <sup>c</sup>
Grape Root Borer	Viceroy Butterfly
Grape Scale	Walnut Husk Fly
Grape Tomato Gall	White Grubs
	Yellownecked Caterpillar

<sup>a</sup>Symptoms indicated a disease or physiological condition not of insect origin.

<sup>b</sup>Some species within this broad category were identified and recorded separately.

<sup>c</sup>Problem could not be diagnosed from the specimen received.

MOST FREQUENTLY RECEIVED ARTHROPODS  
LAWN AND TURF

	J	F	M	A	M	J	J	A	S	O	N	D	TOTAL
Solitary Bees	-	-	-	2	7	-	1	-	-	-	-	-	10
Green June Beetle	-	-	-	-	1	-	-	-	4	1	-	-	6
Cicada Killer	-	-	-	-	-	-	4	2	-	-	-	-	6

## Arthropods of Lawn and Turf Received 3 Times

Millipedes

Scoliid Wasps

## Arthropods of Lawn and Turf Received 2 Times

Ants

Black Cutworms

March Flies

Burrower Bugs

Velvet Ants

## Arthropods of Lawn and Turf Received 1 Time

Black Widow	<u>Melanoplus viridipes</u>
Boxelder Bug	Mosquitoes
Chinch Bug	Rhinoerus Beetle
Digger Bees	Soldier Beetles
Dung Beetles	Stoneflies
Fungus Gnats	Termites
Great Leopard Moth	Thrips
Japanese Beetle	Ticks
Long-Horned Beetle	White Grubs

MOST FREQUENTLY RECEIVED ARTHROPODS  
HUMAN

## Arthropods on Humans Received 3 Times

Head Lice

## Arthropods on Humans Received 2 Times

Assasin Bug <sup>s</sup>	Ticks
Not an Insect <sup>a</sup>	

## Arthropods on Humans Received 1 Time

Bethylid Wasps	House Spider
Buck Moth Caterpillar	Lone Star Tick
Fleas	Metallic Wood Boring Beetles
Flower Flies	Northern Fowl Mites
Geometrid Moths	

MOST FREQUENTLY RECEIVED ARTHROPODS  
STORED PRODUCTS

## Arthropods of Stored Products Received 4 Times

Indian Meal Moth

## Arthropods of Stored Products Received 1 Time

Angumois Grain Moth	Hairy Fungus Beetle
Cigarette Beetle	Leaf Beetles
Cowpea Weevil	Murky Meal Moth
Dark Mealworm	Windowpane Fly
Foreign Grain Beetle	

MOST FREQUENTLY RECEIVED ARTHROPODS  
ANIMAL

## Arthropods on Animals Received 2 Times

Dark Mealworm	Grain Mites
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## Arthropods on Animals Received 1 Time

Black Larder Beetles  
Bloodworms  
Ear Mites  
Fruit Flies

Goat Biting Louse  
Louse Fly  
Moth Flies  
Rat-Tailed Maggots

MOST FREQUENTLY RECEIVED ARTHROPODS  
APICULTURE

## Arthropods of Apiculture Received 1 Time

Wax Moth

<sup>a</sup>Symptoms indicated a disease or physiological condition not of insect origin.

<sup>b</sup>Some species within this broad category were identified and recorded separately.

<sup>c</sup>Problem could not be diagnosed from the specimen received.

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