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Insect Identification Laboratory

Annual Report 1988

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TABLE OF CONTENTS

INTRODUCTION

This report summarizes the activity of the Insect Identification Laboratory at Virginia Tech for 1988. 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 198 times in 1987. 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 24061-5796
(703) 231-4899
SCATS 230-4899

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

A total of 1,719 requests were received in 1988. Eighty-seven percent were forwarded by Extension Agents; the rest were brought or sent in directly by the general public. Identification requests from homeowners accounted for 66% of the total, 34% were from commercial growers, urban pest control operators, medical doctors, university faculty and staff, and unspecified sources. Control recommendations were requested in 79% of the cases.

Persons providing identifications and/or control recommendations:

Mr. Eric R. Day Laboratory Specialist	General
Dr. John A. Weidhaas, Jr Extension Entomologist	Ornamentals
Dr. William H Robinson Extension Entomologist	Household and Structural Wood, Lawn and Turf, Human
Dr. James E. Roberts, Sr. Extension Entomologist	Vegetables, Field Crops, and Animal
Dr. Michael Kosztarab Professor of Entomology	Scale Insects
Dr. Richard D. Fell Assoc. Professor of Entomology	Apiculture and Stinging Insects
Dr. John M. Luna. Extension Entomologist	Alfalfa
Dr. Donald G. Cochran Professor of Entomology	Cockroaches
Dr. F. William Ravlin Associate Professor of Entomology	Gypsy Moths
Dr. Douglas G. Pfeiffer Assistant Professor	Fruit and Nuts

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
TOTAL	31474	131	2366

a Service not previously provided.
b Estimated

SPECIMENS RECEIVED BY THE INSECT IDENTIFICATION LABORATORY IN 1988

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	% OF TOTAL
Ornamentals, Shade trees	8	13	32	60	118	134	95	97	66	54	20	11	708	41.2%
Household	20	31	20	33	22	48	39	28	19	25	36	9	330	19.2%
General	0	3	2	6	5	12	7	11	11	12	0	3	72	4.2%
Veg.|Field crops	0	2	4	7	21	23	24	25	11	6	4	2	129	7.5%
Fruits and nuts	1	4	8	8	16	35	12	16	5	8	3	2	118	6.9%
Lawns and turf	0	1	1	0	2	5	3	13	4	7	0	0	36	2.1%
Human	1	5	5	1	3	12	3	13	12	3	0	2	60	3.5%
Animal	0	2	0	0	0	2	5	1	1	3	0	0	14	0.8%
Structural	4	5	14	17	14	15	18	9	8	5	6	3	118	6.9%
Apicultural	0	0	0	0	0	1	0	1	1	0	0	0	3	0.2%
Stored Products	6	6	17	17	9	14	10	14	9	15	9	5	131	7.6%
TOTAL	40	72	103	149	210	301	216	228	147	138	78	37	1719	
% OF TOTAL	2.3%	4.2%	6.0%	8.7%	12.2%	17.5%	12.6%	13.3%	8.6%	8.0%	4.5%	2.2%		

INSECTS RECEIVED

Ornamental

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
No Insects Found	1	2	2	3	7	4	6	3	6	5	3	0	42
Spruce Mite	0	0	0	3	2	5	3	5	4	3	2	1	28
Boxwood Mite	0	1	2	6	3	0	2	2	1	0	0	0	17
Elm Leaf Beetle	0	0	2	1	0	2	3	6	0	0	0	1	15
Twospotted Spider Mite	0	1	1	0	0	5	3	2	0	0	1	0	13
Azalea Lace Bug	1	0	0	1	0	0	3	4	1	1	1	0	12
Boxwood Leafminer	0	1	0	1	4	3	0	2	0	0	0	0	11
Brown Soft Scale	0	2	2	1	1	3	0	2	0	0	0	0	11
Hickory Leaf Stem Gall	0	0	0	0	3	8	0	0	0	0	0	0	11
Not An Insect	0	0	4	2	0	4	1	0	0	0	0	0	11
Boxwood Psyllid	0	0	1	1	3	2	0	2	1	0	0	0	10
Boxelder Bug	0	0	0	0	0	2	4	1	1	0	0	1	9
Twig Pruner	0	0	0	0	0	5	4	0	0	0	0	0	9
Bark Beetles	0	0	0	2	2	1	2	0	1	0	0	0	8
Birch Aphid	0	0	1	0	4	3	0	0	0	0	0	0	8
Cottony Maple Scale	0	0	0	0	2	4	0	1	0	1	0	0	8
Oak Button Galls	0	0	0	0	2	4	2	0	0	0	0	0	8
Buck Moth	0	0	0	0	1	5	1	0	0	0	0	0	7
Spiny Elm Caterpillar	0	0	0	0	7	0	0	0	0	0	0	0	7
Thrips	0	0	1	0	0	1	2	1	0	1	1	0	7
Aphids	0	0	0	1	2	1	1	1	0	0	0	0	6
Bagworm	0	0	0	0	1	1	0	3	1	0	0	0	6
Eastern Tent Caterpillar	0	0	0	2	2	2	0	0	0	0	0	0	6
Flower Thrips	0	0	0	0	0	0	1	3	1	1	0	0	6
Fourlined Plant Bug	0	0	0	0	0	4	2	0	0	0	0	0	6
Iris Borer	0	0	1	1	1	0	0	1	2	0	0	0	6

INSECTS RECEIVED

Ornamental

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Japanese Beetle	0	0	0	0	0	0	3	3	0	0	0	0	6
Lady Beetles	0	0	0	0	2	1	1	0	1	1	0	0	6
Pine Bark Adelgid	0	0	1	3	0	2	0	0	0	0	0	0	6
Pine Sawyers	0	0	1	0	0	1	2	0	2	0	0	0	6
Plant Bugs	0	0	0	1	0	4	1	0	0	0	0	0	6
Sassafras Weevil	0	0	0	0	0	3	1	1	0	1	0	0	6
Seedcorn Maggot	0	0	0	0	6	0	0	0	0	0	0	0	6
Southern Red Mite	0	0	0	1	1	1	0	1	0	1	0	1	6
White Pine Aphid	1	0	0	2	1	0	1	0	0	1	0	0	6
Woolly Alder Aphid	0	0	0	0	0	6	0	0	0	0	0	0	6
Azalea Stem Borer	0	0	0	0	0	0	0	2	2	1	0	0	5
Darkwinged Fungus Gnats	0	0	0	0	0	0	2	0	0	2	1	0	5
Fall Webworm	0	0	0	0	0	1	1	0	3	0	0	0	5
Hemlock Woolly Adelgid	0	0	0	1	0	0	1	1	0	1	0	1	5
Oak Lecanium	0	0	0	0	3	0	2	0	0	0	0	0	5
Pales Weevil	0	0	0	0	0	1	1	2	1	0	0	0	5
Pine Needle Scale	0	0	0	1	0	1	1	1	0	1	0	0	5
Wasp Galls	0	0	0	0	0	0	1	1	3	0	0	0	5
White Peach Scale	0	0	1	0	0	0	0	0	1	1	0	2	5
Carpenterworm	0	0	1	0	1	1	0	0	0	1	0	0	4
Eastern Pine Looper	0	0	0	1	3	0	0	0	0	0	0	0	4
Gall Mites	0	0	0	0	0	3	0	0	1	0	0	0	4
Katydids	0	1	0	1	0	0	0	1	1	0	0	0	4
Sowbugs	0	0	0	0	1	1	0	1	0	1	0	0	4
Spider Mites	0	0	0	0	0	0	2	1	1	0	0	0	4
Stink Bugs	0	0	0	0	0	1	1	1	0	0	0	1	4

INSECTS RECEIVED

Ornamental

RECEIVED 3 TIMES

Cottony Camellia Scale
Dogwood Twig Borer
Euonymus Scale
Flatheaded Borers
Gall Wasps
Gregarious Oak Leafminer
Hackberry Leafslug
Hoplia Beetles
Juniper Scale
Mealybugs
Obscure Scale
Polyphemus Moth
Privet Thrips
Wheel Bug
Yellownecked Caterpillar
Could Not Diagnose
Eriophyid Mites
European Fruit Lecanium
Gall Midges
Greenstriped Mapleworm
Ground Beetles
Hemispherical Scale
Japanese Weevil
Lace Bugs
Millipedes
Orangestriped Oakworm
Poplar Tentmaker
Walnut Caterpillar
White Pine Weevil

RECEIVED 2 TIMES

Azalea Bark Scale
Broadnecked Root Borer
Caterpillars
Checkered Beetles
Darkling Beetles
Eastern Subterranean Termite
Flannel Moths
Horned Oak Gall
Japanese Scale
Maple Leafspot Gall
Noctuid Moths
Oak Skeletonizer
Oak Webworm
Psyllids
Rottenwood Caterpillars
Saddleback Caterpillar
Sawflies
Sooty Mold
Tree Crickets
Webworms
Yucca Plant Bug
Beech Blight Aphid
Bulb Mite
Cecropia Moth
Cooley Spruce Gall Adelgid
Dogwood Borer
European Hornet
Honeylocust Plant Bug
Ips Engraver Beetles
Maple Bladdergall
Mulberry Whitefly
Oak Aphids
Oak Treehopper
Pine Spittlebug
Rhododendron Lace Bug
Roundheaded Borers
San Jose Scale
Scurfy Scale
Tiphiid Wasps
Vein Pocket Gall
Whiteflies

RECEIVED 1 TIME

Allegheny Mound Ant
Arborvitae Leafminer
Ash Plant Bug
Azalea Caterpillar
Ambrosia Beetles
Armyworm
Assassin Bugs
Birch Lace Bug

INSECTS RECEIVED

Ornamental

Black Vine Weevil
Borers
Calico Scale
Catalpa Sphinx
Chrysanthemum Gall Midge
Cottony Maple Leaf Scale
Cuckoo Wasps
Digger Bees
Erineum Galls
European Earwig
Flatheaded Appletree Borer
Formica Ants
Gall Adelgids
Giant Willow Aphid
Gloomy Scale
Gouty Oak Gall
Green June Beetle
Hackberry Nipplegall
Hickory Onion Gall
Hydrangea Leaftier
June Beetles
Latania Scale
Leaf Skeletonizers
Leafminers
Lesser Peachtree Borer
Longhorned Beetles
Maggots
Maple Gall Midge
Maple Spindlegall
Midge Galls
Nantucket Pine Tip Moth
Oak Apple Galls
Periodical Cicada
Pigeon Tremex
Pine Webworm
Poplar-And-Willow Borer
Privet Thirps
Red And Black Stink Bug
Redhumped Oakworm
Root Weevil
Russian Olive Aphid
Scentless Plant Bugs
Soldier Beetles
Springtails
Stinging Rose Caterpillar
Sycamore Lace Bug
Tussock Moths
Underwing Moths
Walnut Scale
Weevils
Willow Potato Gall
Witch Hazel Cone Gall

Blister Beetles
Boxwood Webworm
Carpenter Ants
Chestnut Aphid
Cotoneaster Webworm
Crab Spiders
Cyclamen Mite
Elongate Hemlock Scale
Eriococcid Scale
Flatfooted Flies
Forest Tent Caterpillar
Fungus Weevils
Giant Bark Aphid
Globular Hickory Leaf Gall
Golden Oak Scale
Gouty Vein Gall
Gypsy Moth
Hemlock Rust Mite
Horntails
Insect Eggs
Larger Yellow Ant
Leaf Beetles
Leafhoppers
Leafrollers
Locust Leafminer
Luna Moth
Maple Erineum Gall
Maple Petiole Borer
Maskell Scale
Mites
Northern Pine Weevil
Oystershell Scale
Petiole Borer
Pine Heartwood Borer
Pitch Pine Midge
Praying Mantids
Psocids
Redhumped Caterpillar
Root Aphids
Rosy Maple Moth
Scale Insects
Smaller Yellow Ant
Spiders
Stalk Borer
Strawberry Root Weevil
Tilehorned Prionus
Twolined Chestnut Borer
Variegated Fritillary
Webspinning Sawflies
Willow Aphids
Willow Rosette Gall
Wool Sower Gall

INSECTS RECEIVED

Ornamental

Woolly Apple Aphid
Woolly Oak Gall
Woollybears
Woolly Elm Aphid
Woolly Oak Leaf Gall
Yucca Weevil

INSECTS RECEIVED

Household

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Boxelder Bug	1	4	3	0	0	0	0	0	0	3	5	0	16
Elm Leaf Beetle	2	1	2	6	2	0	2	0	1	0	0	0	16
Springtails	4	1	0	0	0	6	2	0	0	1	0	2	16
Wood Roaches	0	0	1	4	2	6	0	0	0	0	0	1	14
Clover Mite	0	2	0	5	1	0	0	0	0	0	0	1	9
Ground Beetles	0	0	0	0	1	5	2	0	0	1	0	0	9
Yellow Ants	0	0	0	0	2	2	1	0	0	1	2	0	8
Longhorned Beetles	0	0	2	1	1	1	2	0	0	0	0	0	7
Blow Flies	0	1	0	2	0	1	0	0	1	0	1	0	6
Millipedes	0	0	0	0	0	0	1	2	1	0	2	0	6
No Insects Found	1	2	0	0	0	0	0	0	2	0	1	0	6
Pavement Ant	0	0	0	0	0	2	2	0	1	1	0	0	6
Smaller Yellow Ant	0	0	0	0	0	0	0	0	0	2	4	0	6
Bed Bug	1	0	0	0	0	0	2	0	1	0	0	1	5
Darkwinged Fungus Gnats	0	1	0	0	0	0	0	2	0	0	2	0	5
Moth Flies	0	0	0	0	0	0	0	2	1	1	1	0	5
Soldier Beetles	0	0	0	0	0	0	0	0	0	5	0	0	5
Spiders	0	1	0	0	1	1	0	0	2	0	0	0	5
Bat Bugs	0	0	0	1	0	0	1	2	0	0	0	0	4
Booklice	0	1	0	1	0	0	0	1	0	0	1	0	4
Camel Crickets	0	1	0	0	1	0	0	1	1	0	0	0	4
European Earwig	0	0	0	0	0	3	0	1	0	0	0	0	4
German Cockroach	1	1	0	0	0	0	1	0	1	0	0	0	4
Hoplia Beetles	0	0	1	3	0	0	0	0	0	0	0	0	4
Horsehair Worms	0	0	0	0	0	0	2	1	0	1	0	0	4
March Flies	0	0	0	0	0	0	0	0	0	0	3	1	4

INSECTS RECEIVED

Household

RECEIVED 3 TIMES

American Cockroach
Centipedes
Crazy Ant
Larger Yellow Ant
Psocids
Stoneflies
Twospotted Stink Bug
Bark Beetles
Cicada Killer
Formica Ants
Pharaoh Ant
Soldier Flies
Threadwaisted Wasps
Vinegar Flies

RECEIVED 2 TIMES

Aphids
Bird Mites
Blister Beetles
Carolina Wolf Spider
Clothes Moths
Green June Beetle
Jumping Spiders
Minute Brown Scavenger Beetles
Oriental Cockroach
Sowbugs
Stink Bugs
Wheel Bug
Bed Bugs
Black Widow Spider
Brown Lacewings
Click Beetles
Greater Wax Moth
Humpbacked Flies
Midges
Moths
Small Winter Stoneflies
Spider Wasps
Tiphiid Wasps
Wolf Spiders

RECEIVED 1 TIME

Anobiid Beetles
Argentine Ant
Bean Weevil
Booklouse
Buprestid Beetle
Carrion Beetles
Cowpea Weevil
Ctenid Spider
Dobsonfly
Eastern Yellowjacket
Flat Bark Beetles
Fungus Gnats
Halictid Bees
House Centipede
Japanese Weevil
Lasius Ants
May Beetles
Mites
Negro Bugs
Northern Pine Weevil
Parasitic Wasps
Antlions
Asiatic Oak Weevil
Black Carpet Beetle
Brown Dog Tick
Carpet Beetles
Colletid Bees
Crematogaster Ants
Dance Flies
Eastern Tent Caterpillar
European Hornet
Fleas
Gall Midges
Horse Flies
House Fly
June Beetles
Leafcutting Bees
Mayflies
Murkymeal Moth
Noctuid Moths
Paper Wasps
Plant Bugs

INSECTS RECEIVED

Household

Plasterer Bees
Rattailed Maggots
Scoliid Wasps
Silverfish
Spider Mites
Stadium Mite
Tanbark Borer
Weevils

Pyralid Moths
Rove Beetles
Seed Bugs
Southern Yellowjacket
Stable Fly
Syrphid Flies
Tussock Moths
Yellow Mealworm

INSECTS RECEIVED

General

RECEIVED 3 TIMES

Tiger Moths

RECEIVED 2 TIMES

Lady Beetles
Mole Crickets
Saddleback Caterpillar
Wolf Spiders
Leafcutting Bees
Parasitic Wasps
Wheel Bug

RECEIVED 1 TIME

Amphipod
Assassin Bugs
Broadnecked Root Borer
Carolina Wolf Spider
Crab Spiders
European Hornet
Footpath Sallow
Glowworms
Honey Bee
Horntails
Humpbacked Flies
Insect Eggs
Mason Wasps
Megarhyssa Wasp
Moth Flies
Noctuid Moths
Painted Hickory Borer
Polyphemus Moth
Redheaded Ash Borer
Roundheaded Borers
Scoliid Wasps
Small Tolype
Smaller Yellow Ant
Sphinx Moths
Spider Wasps
Stiletto Flies
Tomato Hornworm
Viceroy
Armyworm
Boxelder Bug
Carolina Mantid
Carpenterworm
Cuckoo Wasps
Flannel Moths
Geometrid Moths
Gypsy Moth
Hoplia Beetles
House Centipede
Imperial Moth
Leafhoppers
May Beetles
Mites
Moths
Not An Insect
Plume Moth
Ptilodactylid Beetles
Rhinoceros Beetle
Scarab Beetles
Slave Making Ants
Small Winter Stoneflies
Snails
Spicebush Swallowtail
Spiders
Tilehorned Prionus
Tortoise Beetles

INSECTS RECEIVED

Veg.|Field crops

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Twospotted Spider Mite	0	0	0	0	2	0	6	5	0	0	0	0	13
Seedcorn Maggot	0	0	0	3	5	1	0	0	0	0	0	0	9
Flea Beetles	0	0	2	0	1	1	1	0	1	0	1	0	7
Thrips	0	0	0	1	0	2	1	3	0	0	0	0	7
No Insects Found	0	1	0	1	1	0	1	0	1	1	0	0	6
Wireworms	0	0	1	1	1	2	0	0	0	1	0	0	6
Blister Beetles	0	0	0	0	0	0	0	3	1	0	0	0	4
European Corn Borer	0	0	0	0	0	1	0	3	0	0	0	0	4
Squash Bug	0	0	0	0	0	0	2	1	1	0	0	0	4

RECEIVED 3 TIMES

Alfalfa Weevil
Ground Beetles
European Earwig
Parasitic Wasps

RECEIVED 2 TIMES

Clover Leaf Weevil
Green June Beetle
May Beetles
Spider Mites
Tobacco Aphid
Corn Rootworms
Greenbug
Rove Beetles
Stink Bugs

RECEIVED 1 TIME

Aphids
Assassin Bugs
Bean Leaf Beetle
Cabbage Looper
Corn Leaf Aphid
Eastern Tent Caterpillar
Io Moth
Leafminers
Maggots
Mealybugs
Minute Brown Scavenger Beetles
Noctuid Moths
Palestriped Flea Beetle
Potato Leafhopper
Red Flour Beetle
Aphodian Dung Beetles
Bean Aphid
Billbugs
Corn Earworm
Darkwinged Fungus Gnats
Hessian Fly
Leafhoppers
Leafrollers
Meadow Spittlebug
Millipedes
Mites
Onion Thrips
Pea Aphid
Potato Stalk Borer
Root Aphids

INSECTS RECEIVED

Veg.|Field crops

Sap Beetles
Squash Vine Borer
Threecornered Alfalfa Hopper
Tussock Moths
Yellow-Collared Scape Moth
Squash Beetle
Stalk Borer
Tobacco Webworm
White Grubs

INSECTS RECEIVED

Fruits and nuts

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Eastern Tent Caterpillar	0	0	0	1	0	5	1	1	0	1	1	1	11
Plum Curculio	0	0	0	0	0	6	2	2	0	1	0	0	11
Apple Aphid	0	0	0	0	1	3	1	0	0	0	0	0	5
Raspberry Cane Borer	0	0	0	0	0	1	3	1	0	0	0	0	5
Chestnut Weevils	0	0	0	0	0	0	0	0	0	2	2	0	4
No Insects Found	0	0	1	0	1	1	0	0	1	0	0	0	4
Periodical Cicada	0	0	1	2	1	0	0	0	0	0	0	0	4
San Jose Scale	0	1	1	0	0	0	0	1	1	0	0	0	4

RECEIVED 3 TIMES

Stink Bugs

RECEIVED 2 TIMES

Ambrosia Beetles
European Hornet
Pecan Leafroll Mite
Rednecked Cane Borer
Spider Mites
Walnut Caterpillar
White Apple Leafhopper
Aphids
Largid Bugs
Redhumped Caterpillar
Seedcorn Maggot
Strawberry Leafroller
Wheel Bug

RECEIVED 1 TIME

Bagworm
Blackberry Psyllid
Cecropia Moth
Eightspotted Forester
European Red Mite
Flatheaded Borers
Fourlined Plant Bug
Golden Tortoise Beetle
Grape Tomato Gall
Japanese Beetle
Katydids
Locust Leafminer
Pear Psylla
Rosy Apple Aphid
Shothole Borer
Sooty Mold
Black Cherry Aphid
Borers
Currant Aphid
European Earwig
Flatheaded Appletree Borer
Flea Beetles
Gall Mites
Grape Scale
Hoplia Beetles
Japanese Weevil
Lady Beetles
Peachtree Borer
Pecan Phylloxera
Roundheaded Appletree Borer
Soldier Beetles
Southern Red Mite

INSECTS RECEIVED

Fruits and nuts

Spiders
Strawberry Rootworm
Thrips
Twospotted Spider Mite
Yellownecked Caterpillar
Strawberry Root Weevil
Syrphid Flies
Tussock Moths
Woolly Apple Aphid

INSECTS RECEIVED

Lawns and turf

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Scoliid Wasps	0	0	0	0	0	0	0	10	1	0	0	0	11
Green June Beetle	0	0	0	0	0	0	1	0	1	4	0	0	6

RECEIVED 3 TIMES

Ground Beetles

RECEIVED 2 TIMES

Cicada Killer
Crane Flies

RECEIVED 1 TIME

Bagworm
Black Turfgrass Ataenius
Digger Bees
Greenbug
Plasterer Bees
Thrips
Billbugs
Chinch Bug
European Earwig
Millipedes
Pyralid Moths
White Grubs

INSECTS RECEIVED

Human

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Lone Star Tick	0	0	0	0	0	0	0	7	3	0	0	0	10
Carpet Beetles	0	2	0	0	0	0	2	0	0	0	0	1	5
Crab Louse	0	0	3	0	0	1	0	0	0	1	0	0	5
No Insects Found	1	1	1	0	0	0	0	0	1	0	0	1	5

RECEIVED 3 TIMES

Bird Mites
Puss Caterpillar
Brown Dog Tick

RECEIVED 2 TIMES

American Dog Tick
Horse Flies
Thrips
European Hornet
Paper Wasps

RECEIVED 1 TIME

Aphids
Bark Beetles
Blow Flies
Buck Moth
Leafcutting Bees
Pyralid Moths
Southern Yellowjacket
Velvet Ants
Baldfaced Hornet
Black Widow Spider
Booklouse
Gall Midges
Phantom Midges
Silverfish
Spider Wasps
Weevils

INSECTS RECEIVED

Animal	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Brown Dog Tick	0	0	0	0	0	1	1	0	0	2	0	0	4

RECEIVED 3 TIMES

Rattailed Maggots

RECEIVED 2 TIMES

Springtails

RECEIVED 1 TIME

Fleas
Larder Beetle
Lone Star Tick
Horse Flies
Lesser Mealworm

INSECTS RECEIVED

Structural

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Carpenter Ants	2	3	10	6	8	5	7	5	3	1	3	0	53
Eastern Subterranean Termite	0	0	3	7	4	2	1	0	1	0	1	0	19
Old House Borer	2	1	0	2	0	2	2	2	2	1	0	1	15
Termites	0	0	0	0	1	0	2	0	0	1	1	1	6
Carpenter Bee	0	0	1	0	0	2	1	0	0	0	0	0	4
Pavement Ant	0	0	0	0	0	2	0	2	0	0	0	0	4

RECEIVED 3 TIMES

Powder Post Beetles

RECEIVED 1 TIME

Bark Beetles
Carpet Beetles
Confused Flour Beetle
Horntails
Longhorned Beetles
Not An Insect
Southern Lyctus Beetle
Black Carpenter Ant
Checkered Beetles
Flatheaded Borers
Ivorymarked Beetle
Northern Pine Weevil
Pine Sawyers
Weevils

INSECTS RECEIVED

Apicultural

RECEIVED 1 TIME

Could Not Diagnose
Pesticide Kill

Minute Brown Scavenger Beetles

INSECTS RECEIVED

Stored Products

	J	F	M	A	M	J	J	A	S	O	N	D	TOT
Indianmeal Moth	3	4	6	7	1	3	1	3	2	3	0	2	35
Carpet Beetles	0	0	4	0	0	3	4	1	4	4	4	0	24
Drugstore Beetle	0	0	0	1	0	0	1	2	2	0	0	0	6
Black Carpet Beetle	0	1	1	0	1	0	0	1	0	1	0	0	5
Casemaking Clothes Moth	0	0	0	2	1	0	0	0	0	0	0	2	5
Foreign Grain Beetle	0	0	0	0	0	0	0	3	1	1	0	0	5
Sawtoothed Grain Beetle	0	0	1	0	0	0	1	0	0	2	1	0	5
Cigarette Beetle	0	1	0	0	1	0	0	0	0	1	1	0	4
Larder Beetle	1	0	0	1	0	0	1	1	0	0	0	0	4
Lesser Mealworm	0	0	0	0	0	1	2	1	0	0	0	0	4
Rice Weevil	0	0	0	2	1	1	0	0	0	0	0	0	4
Varied Carpet Beetle	0	0	3	0	1	0	0	0	0	0	0	0	4

RECEIVED 3 TIMES

Cabinet Beetle
Red Flour Beetle

RECEIVED 2 TIMES

Confused Flour Beetle
Lesser Grain Borer
Murkymeal Moth
Hide Beetle
Meal Moth

RECEIVED 1 TIME

Angoumois Grain Moth
Grain Mite
Minute Brown Scavenger Beetles
Spider Beetles
Tarnished Plant Bug
Clothes Moths
Ground Beetles
Shiny Spider Beetle
Springtails
Twotoothed Grain Beetle

COUNTY SUMMARY

COUNTY SUMMARY

COUNTY	SPECIMENS
Albemarle	28
Alexandria(IC)	5
Alleghany	15
Amelia	7
Amherst	7
Appomattox	13
Arlington	8
Augusta	70
Bath	13
Bedford	24
Bland	3
Botetourt	8
Brunswick	8
Buchanan	2
Buckingham	4
Campbell	4
Caroline	9
Carroll	27
Charles City	10
Charlotte	4
Chesapeake(IC)	16
Chesterfield	28
Clarke	13
Craig	8
Culpeper	7
Cumberland	6
Danville(IC)	31
Dickenson	16
Dinwiddie	11
Essex	8
Fairfax	6
Fauquier	21
Floyd	15
Fluvanna	11
Franklin	24
Frederick	19
Giles	11
Gloucester	7
Goochland	2
Grayson	11
Greene	7
Halifax	1
Hampton(IC)	17
Hanover	57
Henrico	35
Henry	47
Highland	5
Isle of Wight	14
James City	45
King George	10
King William	6
Lancaster	14
Lee	4
Loudoun	20
Louisa	3
Lunenberg	14

COUNTY SUMMARY

COUNTY	SPECIMENS
Lynchburg(IC)	51
Madison	24
Mathews	5
Mecklenberg	7
Middlesex	5
Montgomery	222
Nelson	11
New Kent	16
newport news(ic)	27
Norfolk(IC)	3
Northumberland	20
Nottoway	4
Orange	23
Page	50
Patrick	6
Petersburg(IC)	5
Pittsylvania	14
Powhatan	5
Prince Edward	8
Prince George	19
Prince William	11
Pulaski	18
Rappahannock	12
Richmond(IC)	2
Roanoke	11
Roanoke(IC)	12
Rockbridge	8
Rockingham	44
Russell	5
Scott	17
Shanandoah	11
Smyth	9
Southampton	5
Spotsylvania	4
Stafford	14
Suffolk(IC)	10
Surry	5
Sussex	8
Tazewell	30
Virginia Beach(IC)	20
Warren	15
Washington	13
Westmoreland	34
Wise	13
Wythe	7
York	17
	1719