

Insect Identification Laboratory Publication

Revised 2021

Insect Identification Laboratory

Annual Report 2019



Eric R. Day

Theresa A. Dellinger

Douglas G. Pfeiffer

Department of Entomology, College of Agriculture and Life Sciences

Virginia Cooperative Extension

Virginia Polytechnic Institute and State University

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INTRODUCTION

A total of 1,282 requests were received in 2019. This report summarizes the activity of the Insect Identification Laboratory at Virginia Tech for 2019. In 2019 23% of samples were submitted electronically, see Source of Samples below. The laboratory is located in 205A Price Hall and is managed by Eric R. Day, Lab Manager, Theresa Dellinger, Assistant Lab Manager, and Doug Pfeiffer, Extension Entomologist, Department of Entomology, Virginia Tech, Blacksburg, Virginia. Front cover photo: Catalpa Sphinx, *Ceratomia catalpae*, Craig County, VA, October 12, 2019, photo by Eric Day

Source of Samples

Row Labels	Count of SubmissionType
Agent	339
Agent Electronic	211
Electronic	20
eXtension Ask an Expert	43
Government, Local	6
Mail In	60
Mail-in Citizen Electronic	11
Mail-in Electronic	34
Medical Doctor	1
National Park Service (NPS)	1
Referral from Plant Disease Clinic	323
SLF Detection Portal	6
VDACS	87
VDF	14
VPI Campus	18
VPI Entomology	49
VPI Station	11
Walk-In	45
(blank)	
Grand Total	1279

Monthly Submission Summary

2019 *	
January	43 *
February	31 *
March	55 *
April	86 *
May	153 *
June	141 *
July	200 *
August	172 *
September	160 *
October	115 *
November	92 *
December	34 *
Total for 2019 within the specified date range	1,281 *

Grand Total	1,282
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Submitter Affiliation Summary

Submitter Type	# of Samples	% of Total
Alson H. Smith, Jr. AREC	4	0%
APHIS-VA Wildlife Conflict Helpline	0	0%
Buildings and Grounds	0	0%
Commercial Greenhouse[Disabled]	0	0%
Crop and Soil Environmental Sciences	0	0%
Eastern Shore AREC	0	0%
Entomology	252	20%
Eric Bowen	1	0%
Extension Agent or Staff	891	70%
Extension Specialist - Campus	2	0%

Food Science and Technology	0	0%
Forestry	3	0%
Hampton Roads AREC	4	0%
Horticulture	3	0%
Master Gardener	0	0%
Master Gardener Coordinator	0	0%
Medical Doctor	1	0%
Northern Piedmont AREC	0	0%
Plant Pathology, Physiology and Weed Science	1	0%
Researcher, University	0	0%
Shenandoah Valley AREC	1	0%
Southern Piedmont AREC	1	0%
Southwest Va AREC	0	0%
SPDN Lab	0	0%
State Agency	2	0%
Survey	0	0%
Tidewater AREC	2	0%
Univeristy or College	1	0%
University or College	0	0%
Unknown	0	0%
US Forest Service	0	0%
USDA APHIS PPQ	0	0%
VA Department of Forestry	14	1%
VDACS	15	1%
VDACS, Office of Plant Protection	67	5%
Veterinary College	1	0%
Virginia State University	0	0%
Virginia Tech	1	0%
Walk-in or Direct Mail-in	15	1%
Warsaw AREC	0	0%
Winchester AREC	0	0%
Total	1,282	

Crop Category

Crop Location	# of Samples	% of Total
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Animal	9	0.7
Arboretum	1	0.1
Athletic Field	2	0.2
Barn or other structure for animals	0	0
Barn, Shed, or Outbuilding	8	0.6
Bee Hive	1	0.1
Botanical Garden	21	1.6
Botanical Garden	2	0.2
Building	44	3.4
Christmas Tree Farm	10	0.8
Cold Frame	0	0
Compost	2	0.2
Container in Landscape	2	0.2
Driveway	0	0
Driveway or Sidewalk	4	0.3
Earth Box	0	0
Feed	3	0.2
Field/Farm	60	4.7
Food, Food Products	2	0.2
Forest	21	1.6
Garden	42	3.3
Garden center	0	0
Golf Course	2	0.2
Green Roof	0	0
Greenhouse	24	1.9
Ground	18	1.4
Growth chamber	0	0
Heated hoop house	0	0
High Tunnel	1	0.1
Hoop House	1	0.1
House	179	14
House	15	1.2
House Wood	11	0.9
Household and Recreational Area	6	0.5
Human	29	2.3
Hydroponic Culture	3	0.2
Indoor Laboratory Hydroponic Research [Disabled]	0	0
Indoor Plant	3	0.2
Insect	0	0
Kitchen, Pantry, or food storage area	12	0.9
Lake	0	0
Lawn/Landscape	460	36
Lumber	0	0
Mason bee house	1	0.1
Maze	1	0.1

Mountain	0	0
Mulch or Compost	2	0.2
Museum	3	0.2
Natural Setting	5	0.4
None Given	6	0.5
Nursery	23	1.8
Orchard	22	1.7
Other	2	0.2
Outdoor Hydroponic Culture[Disabled]	0	0
Outdoor Potted Plant	1	0.1
Park	6	0.5
Parking Lot	3	0.2
Pasture	0	0
Playground	1	0.1
Pond	1	0.1
Pool	3	0.2
Porch, Deck, or Patio	33	2.6
Potted Plant	7	0.5
Poultry House	0	0
Raised Bed	0	0
Research Plot	0	0
Research, indoor	0	0
Retail Outlet	2	0.2
River	0	0
Roadside	2	0.2
Sentinel plot	0	0
Shopping Center / Parking Lot	0	0
Sidewalk	1	0.1
Sod Farm	0	0
Soil	0	0
Spring	0	0
Starting Bed	0	0
Storage	0	0
Stored Products	4	0.3
Traffic Island	0	0
Trap, Insect	107	8.4
Tree Farm	0	0
Unknown	23	1.8
Vehicle	9	0.7
Vineyard	10	0.8
Vineyard	1	0.1
Water Garden	0	0
Water system, House	1	0.1
water well	0	0

Wetlands	0	0
Wildlife Habitat	0	0
Total	1,278	
Samples with no crop location specified	4	

91 Record(s)

Host Pest Data for 2019

No Crop Type Specified

Cattle Feed

1 BLACK SOLDIER FLY *Hermetia illucens*

1 Total for Cattle Feed

Goat

1 DEER TICK *Ixodes scapularis*

1 GOAT BITING LOUSE *Bovicola caprae*

2 Total for Goat

Organism

1 TICKS

1 Total for Organism

Outside on ground

1 ALLEGHENY MOUND ANT *Formica exsectoides Forel*

2 ANDRENID BEES

1 ASSASSIN BUGS

2 BROAD-NECKED ROOT BORER *Prionus laticollis*

1 Cicada Turrets

1 DARKWINGED FUNGUS GNATS

1 EASTERN HERCULES BEETLE *Dynastes tityus*

1 EASTERN SUBTERRANEAN
TERMITE *Reticulitermes flavipes*

1 EUROPEAN HORNET *Vespa crabro germana Christ*

1 GLOWWORMS *Phengodes sp.*

1 GREEN STINK BUG *Acrosternum hilare*

1	Ground spiders, Family	
	Gnaphosidae	
1	HARLEQUIN BUG	<i>Murgantia histrionica</i>
1	LARGER YELLOW ANT	<i>Acanthomyops interjectus</i>
1	LEOPARD MOTH	<i>Zeuzera pyrina</i>
1	MYRMICA AMERICANA	<i>Myrmica americana</i>
1	NORTHERN MOLE CRICKET	<i>Neocurtilla hexadactyla</i>
3	RED IMPORTED FIRE ANT	<i>Solenopsis invicta Buren</i>
1	Saddlebags Dragonflies	<i>Tramea</i>
1	SATURNIID MOTHS	
1	SOLITARY BEES	
9	Spotted lanternfly	<i>Lycorma delicatula</i>
1	VELVET ANT	<i>Dasymutilla occidentalis</i>
1	WHEEL BUG	<i>Arilus cristatus</i>
1	WHITE-LINED SPHINX	<i>Hyles lineata</i>
1	YELLOW POPLAR WEEVIL	<i>Odontopus calceatus</i>
1	No Diagnosis or Sample Quality Entered	

39	Total for Outside on ground
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Wood

1	MOTH PUPAE
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1	Total for Wood
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Animal

Cat

1	DEER TICK	<i>Ixodes scapularis</i>
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1	Total for Cat
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Cattle

1	Longhorned Tick	<i>Haemaphysalis longicornis</i>
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1	Total for Cattle
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Domestic Dog

1	DEER TICK	<i>Ixodes scapularis</i>
1	LONE STAR TICK	<i>Amblyomma americanum</i>
1	SAP BEETLES	
1	SARCOPHAGA FLESH FLIES	<i>Sarcophaga, sp.</i>

4	Total for Domestic Dog
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Farm animal; livestock

1 Longhorned Tick *Haemaphysalis longicornis*

1 Total for Farm animal; livestock

Animal Feed

Feed, Animal

1 GALL MIDGES

1 PSOCIDS

2 Total for Feed, Animal

Bee Hive

Bee Hive

1 No Diagnosis or Sample Quality Entered

1 Total for Bee Hive

Field Crops

Alfalfa

1 ALFALFA WEEVIL *Hypera postica*

1 WHITEFRINGED BEETLES *Graphognathus spp.*

2 Total for Alfalfa

Bluegrass

1 Annual Bluegrass Weevil *Listronotus maculicollis*

1 Total for Bluegrass

Corn

1 BLACK CUTWORM *Agrotis ipsilon*

1 DARKWINGED FUNGUS GNATS

1 PINK AND BLACK LADY BEETLE *Coleomagila maculata L.*

1 SOUTHERN ARMY WORM *Spodoptera eridania*

1 SPIDERS

5 Total for Corn

Cotton

1 YELLOW POPLAR WEEVIL *Odontopus calceatus*

1 Total for Cotton

Hay

1 CAROLINA MANTID *Stagmomantis carolina*

1 Total for Hay

Hemp

2 APHIDS

1 BIGHEADED GROUND BEETLE *Scarites subterraneus*

2 BLACK TURFGRASS ATAENIUS *Ataenius spretulus*

1 Cannabis Aphid *Phorodon cannabis*

1 CORN EARWORM *Heliocoverpa zea*

1 COULD NOT DIAGNOSE

1 CUTWORMS

1 Eurasian Hemp Borer *Grapholita delineana*

2 EUROPEAN CORN BORER *Ostrinia nubilalis*

1 FALL WEBWORM *Hyphantria cunea*

1 GEOMETRID CATERPILLARS

1 HARPALUS PENNSYLVANICUS *Harpalus pennsylvanicus*

4 Hemp Russet Mites *Aculops sp.*

1 IO MOTH *Automeris io*

2 MELANOTUS COMMUNIS-DIETRICH *Melanotus communis-deitrichi*

1 SALTMARSH CATERPILLAR *Estigmene acrea*

1 STALK BORER *Papaipema nebris*

1 Stink bug eggs

1 TARNISHED PLANT BUG *Lygus lineolaris*

1 TOBACCO BUDWORM *Heliocoverpa viresicans*

6 TWOSPOTTED SPIDER MITE *Tetranychus urticae Koch*

1 YELLOWSTRIPED ARMYWORM *Spodoptera ornithogalli*

34 Total for Hemp

Hops

1 CRANE FLIES

1 JAPANESE BEETLE *Popillia japonica Newman*

1 Stink bug eggs

1 STINK BUGS

1 WIREWORMS

5 Total for Hops

mung bean

1 COWPEA APHID *Aphis crassivora*

1 DARKWINGED FUNGUS GNATS

1 THRIPS

1 YELLOWSTRIPED ARMYWORM *Spodoptera ornithogalli*

4 Total for mung bean

Oats

1 GREENBUG *Schizaphis graminum*

1 Total for Oats

Quinoa

1 SPINACH LEAFMINER *Pegomya hyoscyami*

1 TARNISHED PLANT BUG *Lygus lineolaris*

2 Total for Quinoa

Soybean

2 BROWN MARMORATED STINK BUG *Halyomorpha halys*

1 SILVERSPOTTED SKIPPER *Epargyreus clarus*

3 Total for Soybean

Tobacco

1 SYRPHID FLIES

1 Total for Tobacco

general

Potting Soil; growing media

1 No Diagnosis or Sample Quality Entered

1 Total for Potting Soil; growing media

Herbaceous Ornamentals and Indoor Plants

Aster

1 COMMON THRIPS

1 Total for Aster

Bedding Plants, Miscellaneous

1 SOWBUGS

1 Total for Bedding Plants, Miscellaneous

Bitter Cress

1 Lettuce Root Aphid *Pemphigus bursarius*

1 Total for Bitter Cress

Brugmansia

1 SPIDER MITES

1 Total for Brugmansia

Butterfly Weed

1 Stink bug eggs

1 Total for Butterfly Weed

Chrysanthemum

1 LEAF SKELETONIZERS

1 Total for Chrysanthemum

Citrus Plant

1 GRASSHOPPERS

1 Total for Citrus Plant

Clematis

1 Dark-Spotted Palthis *Palthis angulalis*

1 EUROPEAN PEPPER MOTH *Duponchelia fovealis* Zeller

2 Total for Clematis

Coneflower

1 Bee-Like Flower Scarab *Trichiotinus piger*

1 Total for Coneflower

Dahlia

1 COMMON THRIPS

1 WESTERN FLOWER THRIPS *Frankliniella occidentalis*

2 Total for Dahlia

Daylily

1 Flower Thrips *Frankliniella sp.*

1 Total for Daylily

Dianthus

1 APHIDS

1 Flower Thrips *Frankliniella sp.*

2	Total for Dianthus
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False Indigo

1	GENISTA BROOM MOTH	<i>Uresiphita reversalis</i>
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1	Total for False Indigo
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Flower, Unknown

1	FLOWER THRIPS	<i>Frankliniella tritici</i>
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1	Total for Flower, Unknown
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Houseplant

1	STINK BUGS
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1	Total for Houseplant
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Iris

1	CYCLAMEN MITE	<i>Steneotarsonemus pallidus</i>
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1	Total for Iris
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Joe-pye Weed

1	Entylia carinata	<i>Entylia carinata</i>
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1	Total for Joe-pye Weed
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Liriope

1	TWOSPOTTED SPIDER MITE	<i>Tetranychus urticae Koch</i>
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1	Total for Liriope
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Lotus

1	PYRALID CATERPILLARS
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1	Total for Lotus
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Marigold

1	BROAD MITE	<i>Polyphagotarsonemus latus</i>
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1	Total for Marigold
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Orchid

1	NO INSECTS FOUND
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1	Total for Orchid
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Ornamental Grass

1	Cattail Toothpick Grasshopper	<i>Leptysma marginicollis</i>
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1	Total for Ornamental Grass
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Oxalis

1 MOTH FLIES

1	Total for Oxalis
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Plant, Unknown

1 ACARID MITES

1 LESSER MEADOW KATYDIDS *Conocephalus sp.*

1 WHITESPOTTED SAWYER *Monochamus scutellatus*

3	Total for Plant, Unknown
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Rudbeckia

1 RUDBECKIA PSYLLID *Bactericera antennata*

1 STALK BORER *Papaipema nebris*

2	Total for Rudbeckia
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Schefflera

1 BROWN SOFT SCALE *Coccus hesperidum Linnaeus*

1 SPIDER MITES

2	Total for Schefflera
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Sedge

1 DARKWINGED FUNGUS GNATS

1 FLOWER THRIPS *Frankliniella tritici*

2	Total for Sedge
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Solomon's Seal

1 Flower Thrips *Frankliniella sp.*

1 THRIPS

2	Total for Solomon's Seal
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Unknown Indoor Plant

1 PHIDIPPUS SPIDERS *Phidippus sp.*

1 SPIDER MITES

2	Total for Unknown Indoor Plant
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Verbena

1 LADY BEETLES

1	Total for Verbena
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Water Lily

1 SMARTWEED CATERPILLAR *Acrionicta oblinita*

1 Total for Water Lily

Household and Recreational Area**Automobile; recreational vehicle**

1 BLACK CARPET BEETLE *Attagenus megatoma*
1 Common Fruit Fly *Drosophila melanogaster*
2 Cryptolestes grain beetles *Cryptolestes sp./spp.*
1 FALL WEBWORM *Hyphantria cunea*
1 ISOPOD
1 NO BED BUGS FOUND
2 NO BITING INSECTS FOUND
1 PHORID FLIES
1 SPIDERS
1 Spotted lanternfly *Lycorma delicatula*
1 UNDERWING MOTHS *Catocala spp.*
1 VARIED CARPET BEETLE *Anthrenus verbasci*
1 YELLOW POPLAR WEEVIL *Odontopus calceatus*
1 Zale Moths *Zale sp.*

16 Total for Automobile; recreational vehicle

Building

1 ACROBAT ANTS *Crematogaster spp.*
1 AMAUROBIID SPIDERS
1 AMERICAN COCKROACH *Periplaneta americana*
2 BED BUG *Cimex lectularius Linnaeus*
1 BED BUGS
1 BEETLES
2 Bird Mites *Ornithonyssus*
1 BLACK SOLDIER FLY *Hermetia illucens*
1 COULD NOT DIAGNOSE
1 DARKLING BEETLES
1 DARKWINGED FUNGUS GNATS
1 DRAIN FLIES
1 FLIES
1 FOREIGN GRAIN BEETLE *Ahasverus advena*
1 GARDEN MILLIPEDE *Oxidus gracilis*
1 GELECHIID MOTHS
1 GREEN LACEWINGS

1	GROUNDSELBUSH BEETLE	<i>Trirhabda bacharidis</i>
3	MIDGES	
2	MINUTE BROWN SCAVENGER BEETLES	
1	MOTH FLIES	
1	MUD DAUBER WASPS	
1	ODOROUS HOUSE ANT	<i>Tapinoma sessile</i>
1	PAVEMENT ANT	<i>Tetramorium caespitum</i>
1	PLANT SEEDS	
2	PSOCIDS	
1	PSYCHODA MOTH FLIES	<i>Psychoda spp.</i>
1	Sidewalk Mites	
1	SILKEN FUNGUS BEETLES	
2	SILVERFISH	<i>Lepisma saccharina Linnaeus</i>
1	SMOOTH SPRINGTAILS	
1	Spotted lanternfly	<i>Lycorma delicatula</i>
1	THIEF ANT	<i>Solenopsis molesta</i>
1	TREEHOPPERS	
1	Uropodina Mites	
1	VARIED CARPET BEETLE	<i>Anthrenus verbasci</i>
1	Wood Midges	
2	YELLOW POPLAR WEEVIL	<i>Odontopus calceatus</i>

46	Total for Building
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Driveway/Sidewalk

1	GARDEN MILLIPEDE	<i>Oxidus gracilis</i>
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1	Total for Driveway/Sidewalk
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Food; Food Products

1	ANGOUMOIS GRAIN MOTH	<i>Sitotroga cerealella</i>
1	COULD NOT DIAGNOSE	
2	DRUGSTORE BEETLE	<i>Stegobium paniceum</i>
1	FLESH FLIES	
1	INDIANMEAL MOTH	<i>Plodia interpunctella</i>
1	RICE WEEVIL	<i>Sitophilus oryzae</i>
2	VARIED CARPET BEETLE	<i>Anthrenus verbasci</i>

9	Total for Food; Food Products
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House

5	ACROBAT ANTS	<i>Crematogaster spp.</i>
1	ANTHONOMUS BUD WEEVILS	<i>Anthonomus spp.</i>
1	ASSASSIN BUG	<i>Pselliopus barberi</i>
1	ASSASSIN BUGS	

2	BAT BUG	<i>Cimex adjunctus</i>
3	BED BUG	<i>Cimex lectularius</i> Linnaeus
1	BEETLES	
3	Bird Mites	<i>Ornithonyssus</i>
4	BLACK CARPENTER ANT	<i>Camponotus pennsylvanicus</i>
1	BLACK CARPET BEETLE	<i>Attagenus megatoma</i>
1	Black Corsair	<i>Melanolestes picipes</i>
1	BLACK HORSE FLY	<i>Tabanus atratus</i> F.
1	BLUE BOTTLE FLY	<i>Calliphora vicina</i>
3	BOXELDER BUG	<i>Leptocoris trivittatus</i>
1	BRONZE BOTTLE FLY	<i>Phaenicia cuprina</i>
1	BROWN HOUSE MOTH	<i>Hofmannophila pseudospretella</i>
1	BROWN MARMORATED STINK BUG	<i>Halyomorpha halys</i>
2	CAMEL CRICKETS	
1	CAROLINA WOLF SPIDER	<i>Hogna carolinensis</i> Walckenaer
1	CARPENTER ANTS	<i>Camponotus</i> spp.
2	CARPET BEETLES	
1	<i>Centruroides vittatus</i>	<i>Centruroides vittatus</i>
1	CHIMNEY SWIFT BUG	<i>Cimexopsis nyctalis</i>
2	CIGARETTE BEETLE	<i>Lasioderma serricorne</i>
2	CLICK BEETLES	
1	CLOVER MITE	<i>Bryobia praetiosa</i> Koch
1	COBWEB WEAVERS	
3	COCKROACHES	
1	COMBCLAWED BEETLES	
1	COMBFOOTED SPIDERS	
1	Common Fruit Fly	<i>Drosophila melanogaster</i>
1	COMMON STONEFLIES	
4	COULD NOT DIAGNOSE	
2	CRAB SPIDERS	
1	DARK HOPLIA	<i>Hoplia trivialis</i>
2	DARKWINGED FUNGUS GNATS	
1	DRAIN FLIES	
4	DRUGSTORE BEETLE	<i>Stegobium paniceum</i>
9	EASTERN CONENOSE	<i>Triatoma sanguisuga</i>
8	EASTERN SUBTERRANEAN TERMITE	<i>Reticulitermes flavipes</i>
2	EASTERN YELLOWJACKET	<i>Vespula maculifrons</i>
2	ENTOMOBRYID SPRINGTAILS	
4	EUROPEAN HORNET	<i>Vespa crabro germana</i> Christ
1	FIELD CRICKETS	
3	FISHING SPIDER	<i>Dolomedes tenebrosus</i>
1	FISHING SPIDERS	
1	FLORIDA PREDATORY STINK BUG	<i>Euthyrhynchus floridanus</i> L.

4	FOREIGN GRAIN BEETLE	<i>Ahasverus advena</i>
7	GARDEN MILLIPEDE	<i>Oxidus gracilis</i>
1	GERMAN COCKROACH	<i>Blattella germanica</i>
1	GLOWWORMS	<i>Phengodes sp.</i>
1	GRAIN MITE	<i>Acarus siro Linnaeus</i>
1	GREEN LACEWINGS	
3	GROUND BEETLES	
1	HARPALUS GROUND BEETLES	<i>Harpalus SP.</i>
1	HOUSE CENTIPEDE	<i>Scutigera coleoptrata</i>
1	HUMPBACKED FLIES	
1	HUNTING SPIDERS	
2	ICHNEUMONID WASPS	
5	INDIANMEAL MOTH	<i>Plodia interpunctella</i>
1	IVORYMARKED BEETLE	<i>Eburia quadrigeminata</i>
1	LEAFFOOTED BUG	<i>Leptoglossus phyllopus</i>
1	LEAFFOOTED BUGS	
1	LONGBODIED CELLAR SPIDERS	
1	Longhorned Tick	<i>Haemaphysalis longicornis</i>
1	MAIZE WEEVIL	<i>Sitophilus zeamais Motschulsky</i>
1	MIDGES	
2	MINUTE BROWN SCAVENGER BEETLES	
5	MOTH FLIES	
1	NIESTHREA LOUISIANICA	<i>Niesthrea louisianica Sailer</i>
3	NO BITING INSECTS FOUND	
2	NO INSECTS FOUND	
8	NO INSECTS OR MITES FOUND	
1	NO MITES FOUND	
1	NOCTUID CATERPILLARS	
1	NORTHERN MOLE CRICKET	<i>Neocurtilla hexadactyla</i>
3	Northern Paper Wasp	<i>Polistes fuscatus</i>
3	NOT AN INSECT	
3	OAK TIMBERWORM	<i>Arrhenodes minutus</i>
2	ODOROUS HOUSE ANT	<i>Tapinoma sessile</i>
1	ORANGE ASSASSIN BUG	<i>Pseliopus barberi</i>
1	ORIENTAL COCKROACH	<i>Blatta orientalis Linnaeus</i>
1	PENNSYLVANIA WOODS COCKROACH	<i>Parcoblatta pennsylvanica</i>
6	PHORID FLIES	
1	PISAUINA MIRA	<i>Pisaurina mira</i>
1	PLASTER BEETLE	<i>Cartodere constricta</i>
3	PSOCIDS	
1	RED CARPENTER ANT	<i>Camponotus ferrugineus</i>
1	RODENT BOT FLIES	<i>Cuterebra spp.</i>

1	RUSTY GRAIN BEETLE	<i>Cryptolestes ferrugineus</i>
1	SAP BEETLES	
1	SARCOPHAGA FLESH FLIES	<i>Sarcophaga, sp.</i>
1	SAWTOOTHED GRAIN BEETLE	<i>Oryzaephilus surinamensis</i>
1	SILKEN FUNGUS BEETLES	
1	SILVERFISH	<i>Lepisma saccharina Linnaeus</i>
1	SMOKYBROWN COCKROACH	<i>Periplaneta fuliginosa</i>
1	SMOOTH SPRINGTAILS	
1	SOLDIER BEETLES	
2	SPHECID WASPS	
1	SPIDER WASPS	
2	SPIDERS	
1	Spined Assassin Bugs	<i>Sinea sp.</i>
1	SPINY RAT MITE	<i>Echinolaelaps echidninus</i>
2	Spotted lanternfly	<i>Lycorma delicatula</i>
2	SPRINGTAILS	
1	STINK BUGS	
2	STONEFLIES	
1	TUMBLING FLOWER BEETLES	
5	VARIED CARPET BEETLE	<i>Anthrenus verbasci</i>
2	WESTERN CONIFER SEED BUG	<i>Leptoglossus occidentalis</i>
2	WHEEL BUG	<i>Arilus cristatus</i>
2	WOLF SPIDERS	
3	WOOD ROACHES	<i>Parcoblatta spp.</i>
2	No Diagnosis or Sample Quality Entered	

224	Total for House
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House Wood

2	BLACK CARPENTER ANT	<i>Camponotus pennsylvanicus</i>
1	DRYWOOD TERMITES	
3	EASTERN SUBTERRANEAN TERMITE	<i>Reticulitermes flavipes</i>
1	KALOTERMES DRYWOOD TERMITES	<i>Kaloterme spp.</i>
1	POWDERPOST BEETLES	
1	WOOD ROACHES	<i>Parcoblatta spp.</i>

9	Total for House Wood
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Human Clothing

1	DRUGSTORE BEETLE	<i>Stegobium paniceum</i>
1	VARIED CARPET BEETLE	<i>Anthrenus verbasci</i>

2	Total for Human Clothing
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Outside on structure

1	ACORN WEEVILS	<i>Curculio spp.</i>
1	AILANTHUS WEBWORM	<i>Atteva aurea Fitch</i>
1	AMERICAN CARRION BEETLE	<i>Necrophila americana L.</i>
1	BANDED TUSSOCK MOTH	<i>Halysidota tessellaris</i>
1	Black witch moth	<i>Ascalapha odorata</i>
1	CECROPIA MOTH	<i>Hyalophora cecropia</i>
2	DOBSONFLY	<i>Corydalus cornutus</i>
1	Eastern Cicada Killer	<i>Sphecius speciosus</i>
1	EASTERN HERCULES BEETLE	<i>Dynastes tityus</i>
2	EASTERN YELLOWJACKET	<i>Vespula maculifrons</i>
1	EUROPEAN HORNET	<i>Vespa crabro germana Christ</i>
1	FISHING SPIDER	<i>Dolomedes tenebrosus</i>
1	FLORIDA PREDATORY STINK BUG	<i>Euthyrhynchus floridanus L.</i>
1	GIANT RESIN BEE	<i>Megachile sculptularis Smith</i>
1	GREAT LEOPARD MOTH	<i>Ecpantheria scribonia</i>
1	JUMPING BRISTLETAIL	
1	Large Paectes	<i>Paectes abrostoloides</i>
1	LARGER ELM LEAF BEETLE	<i>Monocesta coryli</i>
2	LEOPARD MOTH	<i>Zeuzera pyrina</i>
1	Lovebug	<i>Plecia nearctica</i>
2	MIDGES	
1	MONOBIA POTTER WASPS	<i>Monobia sp.</i>
1	NORTHERN BLACK WIDOW SPIDER	<i>Latrodectus variolus</i>
1	POLISTES EXCLAMANS	<i>Polistes exclamans</i>
1	PUSS CATERPILLAR	<i>Megalopyge opercularis</i>
1	RED CARPENTER ANT	<i>Camponotus ferrugineus</i>
1	SPINED MICRATHENA	<i>Micrathena gracilis</i>
4	Spotted lanternfly	<i>Lycorma delicatula</i>
1	STINK BUGS	
1	WESTERN CONIFER SEED BUG	<i>Leptoglossus occidentalis</i>
2	WHEEL BUG	<i>Arilus cristatus</i>
1	WHITESPOTTED SAWYER	<i>Monochamus scutellatus</i>
2	YELLOW POPLAR WEEVIL	<i>Odontopus calceatus</i>
1	Yellowjacket Hover Fly	<i>Milesia virginiensis</i>

43 Total for Outside on structure

Wood Flooring

2	BROWN POWDERPOST BEETLE	<i>Lyctus brunneus</i>
1	POWDERPOST BEETLES	
2	ROUNDHEADED BORERS	
3	SOUTHERN LYCTUS BEETLE	<i>Lyctus carbonarius Waltl 1832</i>

8 Total for Wood Flooring

Wooden object

1 DRYWOOD TERMITES

1 Total for Wooden object**Yard**

3	ALLEGHENY MOUND ANT	<i>Formica exsectoides Forel</i>
2	BLUE-WINGED WASP	<i>Scolia dubia</i>
1	Corklid trapdoor spiders	<i>Ummidia sp.</i>
2	CRANE FLIES	
1	CUTEREBRA BOT FLIES	<i>Cuterebra sp.</i>
1	DARK HOPLIA	<i>Hoplia trivialis</i>
1	DRAGONFLIES	
1	Eastern Cicada Killer	<i>Sphecius speciosus</i>
1	EASTERN HERCULES BEETLE	<i>Dynastes tityus</i>
1	EUROPEAN HORNET	<i>Vespa crabro germana Christ</i>
1	Jumping Worm	<i>Amyntas spp</i>
1	Longhorned Tick	<i>Haemaphysalis longicornis</i>
1	MIDGES	
1	PANDORUS SPHINX	<i>Eumorpha pandorus</i>
1	PINE TUSSOCK MOTH	<i>Dasychira spp.</i>
1	PSOCIDS	
1	Six-spotted Tiger Beetle	<i>Cicindela sexguttata</i>
1	SMALL WINTER STONEFLIES	
3	Spotted lanternfly	<i>Lycorma delicatula</i>
1	TERSA SPHINX	<i>Xylophanes tersa</i>
1	TIGER MOTHS	
1	WHITE MARGINED BURROWER BUG	<i>Sehirus cinctus</i>
1	YELLOW POPLAR WEEVIL	<i>Odontopus calceatus</i>

29 Total for Yard**Human****Human**

1	AGELENOPSIS FUNNEL WEAVERS	<i>Agelenopsis spp.</i>
1	AMAUROBIID SPIDERS	
1	APHIDS	
1	ARMYWORM	<i>Pseudaletia unipuncta</i>
1	ASSASSIN BUGS	
1	BED BUG	<i>Cimex lectularius Linnaeus</i>
1	BLACK FLIES	
1	Common Fruit Fly	<i>Drosophila melanogaster</i>

1	COULD NOT DIAGNOSE	
7	DEER TICK	<i>Ixodes scapularis</i>
1	EASTERN CONENOSE	<i>Triatoma sanguisuga</i>
1	GARDEN MILLIPEDE	<i>Oxidus gracilis</i>
1	GRANULATE AMBROSIA BEETLE	<i>Xylosandrus crassiusculus</i>
8	LONE STAR TICK	<i>Amblyomma americanum</i>
1	MOSQUITOES	
2	NO INSECTS OR MITES FOUND	
1	RAT MITES	<i>Laelaps sp.</i>
1	VELVET ANTS	
2	VINEGAR FLIES	
1	Zelus Assassin Bugs	<i>Zelus sp.</i>

35	Total for Human
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Insect	
Insect	

1	SARCOPHAGA FLESH FLIES	<i>Sarcophaga, sp.</i>
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1	Total for Insect
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Mulch	
Compost	

1	EARTHWORMS	
2	Jumping Worm	<i>Amyntas spp</i>

3	Total for Compost
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Nonplant Material	
Mulch	

1	Jumping Worm	<i>Amyntas spp</i>
1	SPRINGTAILS	

2	Total for Mulch
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Pest Survey	
Oak	

1	GARDEN MILLIPEDE	<i>Oxidus gracilis</i>
1	PLANT BUGS	

2	Total for Oak
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Trap, Insect	
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1	AMBROSIA BEETLE	<i>Oxyoplatypus quadridentatus</i>
1	AMBROSIA BEETLES	
1	AMBROSIODMUS RUBICOLLIS	<i>Ambrosiodmus rubicollis</i>
1	APHIDS	
1	ASIATIC OAK WEEVIL	<i>Cyrtepistomus castaneus</i>
88	BARK BEETLES	
2	CONOTRACHELUS WEEVILS	<i>Conotrachelus sp.</i>
2	FLIES	
1	GRANULATE AMBROSIA BEETLE	<i>Xylosandrus crassiusculus</i>
1	GROUND BEETLES	
1	HOUSE PSEUDOSCORPION	<i>Chelifer cancroides</i>
1	LESSER SHOTHOLE BORER	<i>Xyleborinus saxeseni</i>
1	Longhorned Tick	<i>Haemaphysalis longicornis</i>
1	MONARTHURUM BARK BEETLES	<i>Monarthrum spp.</i>
17	MOTHS	
3	OEDOPHRYNS HILLERI	<i>Oedophrys hilleri</i>
1	PINE PINHOLE BORER	<i>Platypus flavicornis F.</i>
1	Pinhole Ambrosia Beetle	<i>Euplatypus compositus</i>
1	SOLDIER BEETLES	
1	SPIDERS	
3	Spotted lanternfly	<i>Lycorma delicatula</i>
1	THISTLE HEAD WEEVIL	<i>Rhinocyllus conicus</i>
4	WALNUT TWIG BEETLE	<i>Pityophthorus juglandis</i>
1	WEEVILS	
2	XYLEBORINUS SAXESENII	<i>Xyleborinus saxesenii</i>

138	Total for Trap, Insect
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Walnut

1	LEAF BEETLES
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1	Total for Walnut
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Small Fruits

Blackberry

1	RASPBERRY CROWN BORER	<i>Pennisetia marginata</i>
1	REDNECKED CANE BORER	<i>Agrilus ruficollis</i>
1	TWOSPOTTED SPIDER MITE	<i>Tetranychus urticae Koch</i>

3	Total for Blackberry
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Blueberry

1	ARMYWORM	<i>Pseudaletia unipuncta</i>
1	AZALEA CATERPILLAR	<i>Datana major Grote and Robinson</i>
1	BAGWORM	<i>Thyridopteryx ephemeraeformis</i>

- | | | |
|---|--------------------|---------------------------------|
| 1 | EUROPEAN EARWIG | <i>Forficula auricularia L.</i> |
| 1 | FALL WEBWORM | <i>Hyphantria cunea</i> |
| 1 | LEAF SKELETONIZERS | |
| 1 | TORTRICID MOTHS | |

7	Total for Blueberry
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Fig

- | | | |
|---|-------------------------|--------------------------------|
| 1 | AMBROSIODMUS RUBICOLLIS | <i>Ambrosiodmus rubicollis</i> |
| 1 | CATERPILLARS | |
| 1 | Oriental bark beetles | <i>Hypothenemus</i> |

3	Total for Fig
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Grape

- | | | |
|---|----------------------------|---------------------------------|
| 1 | BROWN MARMORATED STINK BUG | <i>Halyomorpha halys</i> |
| 2 | GRAPE BERRY MOTH | <i>Endopiza viteana Clemens</i> |
| 1 | GRAPELEAF SKELETONIZER | <i>Harrisina americana</i> |
| 2 | LASIOUS ANTS | <i>Lasius spp.</i> |
| 1 | LASIOUS NEONIGER | <i>Lasius neoniger</i> |
| 1 | MIDGE LARVAE | |
| 1 | ODOROUS HOUSE ANT | <i>Tapinoma sessile</i> |
| 3 | PAVEMENT ANT | <i>Tetramorium caespitum</i> |
| 1 | RUST MITES | |

13	Total for Grape
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Raspberry

- | | | |
|---|----------------------|--------------------------|
| 1 | RASPBERRY CANE BORER | <i>Oberea bimaculata</i> |
| 1 | SMALL CARPENTER BEE | <i>Ceratina spp.</i> |

2	Total for Raspberry
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Strawberry

- | | | |
|---|------------------------|---------------------------------|
| 1 | Rice stink bug | <i>Oebalus pugnax</i> |
| 1 | TWOSPOTTED SPIDER MITE | <i>Tetranychus urticae Koch</i> |

2	Total for Strawberry
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Tree Fruits and Nuts

Apple

- | | | |
|---|----------------------------|--------------------------|
| 1 | ALTICA FLEA BEETLES | <i>Altica sp.</i> |
| 3 | BROWN MARMORATED STINK BUG | <i>Halyomorpha halys</i> |
| 1 | Clover head weevil | <i>Hypera meleus</i> |
| 1 | CLOVER ROOT CURCULIO | <i>Sitona hispidulus</i> |
| 1 | CODLING MOTH | <i>Cydia pomonella</i> |

1	EUROPEAN RED MITE	<i>Panonychus ulmi</i>
2	GRANULATE AMBROSIA BEETLE	<i>Xylosandrus crassiusculus</i>
1	JAPANESE BEETLE	<i>Popillia japonica Newman</i>
1	LEAFFOLDERS	
1	LEAFHOPPERS	
1	TARNISHED PLANT BUG	<i>Lygus lineolaris</i>
2	WEEVILS	
1	WHITE MARGINED BURROWER BUG	<i>Sehirus cinctus</i>
1	WHITE PEACH SCALE	<i>Pseudaulacaspis pentagona</i>
1	XYLEBORINUS SAXESENII	<i>Xyleborinus saxesenii</i>
1	XYLOSANDRUS GERMANUS	<i>Xylosandrus germanus</i>

20	Total for Apple
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Asian Pear

1	CODLING MOTH	<i>Cydia pomonella</i>
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1	Total for Asian Pear
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Cherry

1	GREEN LACEWINGS
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1	Total for Cherry
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Chestnut

1	NO INSECTS FOUND	
1	PINKSTRIPED OAKWORM	<i>Anisota virginensis</i>

2	Total for Chestnut
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Fruit Trees, Misc.

1	EUROPEAN HORNET	<i>Vespa crabro germana Christ</i>
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1	Total for Fruit Trees, Misc.
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Lemon

1	BROWN SOFT SCALE	<i>Coccus hesperidum Linnaeus</i>
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1	Total for Lemon
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Nectarine

1	PLUM CURCULIO	<i>Conotrachelus nenuphar</i>
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1	Total for Nectarine
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Peach

1	COULD NOT DIAGNOSE
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- 1 DARKWINGED FUNGUS GNATS
- 1 JUNE BEETLES
- 1 KATYDID EGGS
- 1 LESSER PEACHTREE BORER *Synanthedon pictipes*
- 2 PEACHTREE BORER *Synanthedon exitiosa*
- 2 PLUM CURCULIO *Conotrachelus nenuphar*

9 Total for Peach

Pear

- 1 COULD NOT DIAGNOSE
- 1 YELLOWJACKETS

2 Total for Pear

Pecan

- 1 BLACK WALNUT ERINEUM GALL *Eriophyes caulis Cook*
- 1 SPIDER MITES
- 1 STINK BUGS
- 1 SYRPHID FLIES
- 1 THRIPS
- 1 YELLOW PECAN APHID *Monelliopsis pecanis*

6 Total for Pecan

Tree Fruit, Unknown

- 1 KATYDID EGGS

1 Total for Tree Fruit, Unknown

Walnut

- 1 BLACK WALNUT ERINEUM GALL *Eriophyes caulis Cook*
- 1 LARGER ELM LEAF BEETLE *Monocesta coryli*
- 2 Spotted lanternfly *Lycorma delicatula*
- 1 WALNUT HUSK FLY *Rhagoletis completa Cresson*

5 Total for Walnut

Trees

Arborvitae

- 3 ARBORVITAE LEAFMINER *Argyresthia thuiella*
- 3 BAGWORM *Thyridopteryx ephemeraeformis*
- 1 COULD NOT DIAGNOSE
- 2 JUNIPER SCALES *Carulaspis spp.*
- 1 Mite Predator *Phytoseiulus persimilis*
- 3 SPRUCE MITE *Oligonychus ununguis*

5	SPRUCE SPIDER MITE	<i>Oligonychus ununguis</i>
1	No Diagnosis or Sample Quality Entered	

19	Total for Arborvitae
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Ash

1	BANDED ASH BORER	<i>Neoclytus caprea</i>
1	COULD NOT DIAGNOSE	
1	DARKLING BEETLES	
14	EMERALD ASH BORER	<i>Agrilus planipennis Fairmaire</i>
1	REDHEADED ASH BORER	<i>Neoclytus acuminatus</i>

18	Total for Ash
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Beech

2	BEECH ERINEUM	<i>Acalitus fagerinea</i>
1	LEAFHOPPERS	
1	Poblicia fuliginosa	<i>Poblicia fuliginosa</i>
1	SOOTY MOLD	

5	Total for Beech
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Birch

1	BORERS	
3	SPINY WITCH-HAZEL GALL APHID	<i>Hamamelistes spinosus</i>
1	Spotted lanternfly	<i>Lycorma delicatula</i>

5	Total for Birch
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Black Gum

1	ARMORED SCALES	
1	COULD NOT DIAGNOSE	
2	SWEETGUM SCALE	<i>Diaspidiotus liquidambaris</i>

4	Total for Black Gum
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Cedar

1	DEODAR WEEVIL	<i>Pissodes nemorensis Germar</i>
1	REDHEADED PINE SAWFLY	<i>Neodiprion lecontei</i>
1	ROUNDHEADED BORERS	

3	Total for Cedar
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Cryptomeria

4	MASKELL SCALE	<i>Lepidosaphes spp.</i>
1	SPRUCE MITE	<i>Oligonychus ununguis</i>
1	SPRUCE SPIDER MITE	<i>Oligonychus ununguis</i>

6	Total for Cryptomeria
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Cypress

- | | | |
|---|---------------------|--------------------------------------|
| 3 | BAGWORM | <i>Thyridopteryx ephemeraeformis</i> |
| 1 | CONIFER SPITTLEBUGS | <i>Aphrophora spp.</i> |
| 1 | NO INSECTS FOUND | |

5	Total for Cypress
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Dawn Redwood

- | | | |
|---|-----------------|---------------------------------|
| 1 | JAPANESE BEETLE | <i>Popillia japonica Newman</i> |
|---|-----------------|---------------------------------|

1	Total for Dawn Redwood
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Dogwood

- | | | |
|---|--------------------|---------------------------|
| 1 | Spotted lanternfly | <i>Lycorma delicatula</i> |
| 1 | THRIPS | |

2	Total for Dogwood
----------	--------------------------

Eastern Red Cedar

- | | | |
|---|------------------------|---------------------------------|
| 1 | TWOSPOTTED SPIDER MITE | <i>Tetranychus urticae Koch</i> |
|---|------------------------|---------------------------------|

1	Total for Eastern Red Cedar
----------	------------------------------------

Elm

- | | | |
|---|------------------------|-------------------------------|
| 1 | ELM LEAF BEETLE | <i>Pyrrhalta luteola</i> |
| 1 | ELM SAWFLY | <i>Cimbex americana Leach</i> |
| 1 | LARGER ELM LEAF BEETLE | <i>Monocesta coryli</i> |

3	Total for Elm
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False Arborvitae

- | | | |
|---|-----------------------|---------------------|
| 1 | Oriental bark beetles | <i>Hypothenemus</i> |
|---|-----------------------|---------------------|

1	Total for False Arborvitae
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Falsecypress

- | | | |
|---|----------------------|-------------------------|
| 1 | BUPRESTID BEETLES | |
| 1 | CYPRESS BARK BEETLES | <i>Phloeosinus spp.</i> |
| 1 | LONGHORNED BEETLES | |
| 1 | SPIDER MITES | |

4	Total for Falsecypress
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Fir

- | | | |
|---|------------------------|--------------------------------|
| 1 | CINARA APHIDS | <i>Cinara spp.</i> |
| 1 | ELONGATE HEMLOCK SCALE | <i>Fiorinia externa Ferris</i> |

- | | | |
|---|--------------------|-----------------------------|
| 1 | PALES WEEVIL | <i>Hylobius pales</i> |
| 1 | SPRUCE SPIDER MITE | <i>Oligonychus ununguis</i> |

4	Total for Fir
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Fringe Tree

- | | | |
|---|---------------------|-------------------------|
| 1 | BANDED ASH BORER | <i>Neoclytus caprea</i> |
| 1 | FRINGETREE LACE BUG | <i>Leptoypha mutica</i> |

2	Total for Fringe Tree
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Hackberry

- | | | |
|---|------------------------|--------------------------|
| 1 | HACKBERRY PSYLLIDS | <i>Pachypsylla spp.</i> |
| 1 | LEAFHOPPERS | |
| 1 | Pleasing Fungus Beetle | <i>Megalodacne heros</i> |

3	Total for Hackberry
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Hemlock

- | | | |
|---|------------------------|--------------------------------|
| 1 | CATERPILLARS | |
| 3 | ELONGATE HEMLOCK SCALE | <i>Fiorinia externa Ferris</i> |
| 1 | SPRUCE MITE | <i>Oligonychus ununguis</i> |
| 1 | SPRUCE SPIDER MITE | <i>Oligonychus ununguis</i> |

6	Total for Hemlock
----------	--------------------------

Hickory

- | | | |
|---|-------------|-------------------------|
| 1 | GYPSY MOTH | <i>Lymantria dispar</i> |
| 1 | MIDGE GALLS | |

2	Total for Hickory
----------	--------------------------

Hornbeam

- | | | |
|---|------------------|-------------------------|
| 1 | Orchestes mixtus | <i>Orchestes mixtus</i> |
|---|------------------|-------------------------|

1	Total for Hornbeam
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Kentucky Coffee Tree

- | | | |
|---|--------------|--|
| 1 | SPIDER MITES | |
|---|--------------|--|

1	Total for Kentucky Coffee Tree
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Linden

- | | | |
|---|--------------------|---------------------------|
| 1 | Spotted lanternfly | <i>Lycorma delicatula</i> |
|---|--------------------|---------------------------|

1	Total for Linden
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London Planetree

- | | | |
|---|--------------------|---------------------------|
| 1 | Spotted lanternfly | <i>Lycorma delicatula</i> |
|---|--------------------|---------------------------|

1 Total for London Planetree**Magnolia**

1	FALSE OLEANDER SCALE	<i>Pseudaulacaspis cockerelli</i>
1	JAPANESE MAPLE SCALE	<i>Lopholeucaspis japonica</i>
1	MAGNOLIA SCALE	<i>Neolecanium cornuparvum</i>
1	Spotted lanternfly	<i>Lycorma delicatula</i>
1	YELLOW POPLAR WEEVIL	<i>Odontopus calceatus</i>

5 Total for Magnolia**Maple**

1	COTTONY MAPLE SCALE	<i>Pulvinaria innumerabilis</i>
3	GLOOMY SCALE	<i>Melanaspis tenebricosa</i>
1	Graphisurus fasciatus	<i>Graphisurus fasciatus</i>
4	JAPANESE BEETLE	<i>Popillia japonica Newman</i>
2	JAPANESE MAPLE SCALE	<i>Lopholeucaspis japonica</i>
1	LEAFHOPPERS	
1	NORWAY MAPLE APHID	<i>Periphyllus lyropictus</i>
1	SPIDER MITES	
1	SPIDERS	
2	Spotted lanternfly	<i>Lycorma delicatula</i>
1	WOOLLY ALDER APHID	<i>Paraprociophilus tessellatus</i>

18 Total for Maple**Mimosa**

1	MIMOSA WEBWORM	<i>Homadaula anisocentra Meyrick</i>
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1 Total for Mimosa**Oak**

1	AMBROSIA BEETLES	
1	BARK BEETLES	
1	BARK-GNAWING BEETLES	
1	CATERPILLARS	
1	EYED CLICK BEETLE	<i>Alaus oculatus</i>
1	FLATHEADED APPLETREE BORER	<i>Chrysobothris femorata</i>
1	GOUTY OAK GALL	<i>Callirhytis punctata</i>
1	JUMPING BULLET GALL WASP	<i>Neuroterus saltatorius</i>
1	NO INSECTS FOUND	
1	OAK APPLE GALLS	
7	OAK BUTTON GALL	<i>Neuroterus umbilicatus Bass.</i>
3	OAK LACE BUG	<i>Corythucha arcuata</i>
1	OAK LEAFTIER	<i>Croesia semipurpurana</i>
4	OAK SKELETONIZER	<i>Bucculatrix ainsliella Murtfeldt</i>

5	OAK SPIDER MITE	<i>Oligonychus bicolor</i>
2	PIN OAK SAWFLY	<i>Caliroa lineata</i>
1	PINHOLE BORERS	<i>Platypus spp.</i>
2	ROUNDHEADED BORERS	
2	SCARLET OAK SAWFLY	<i>Caliroa quercuscoccineae</i>
4	SOLITARY OAK LEAFMINER	<i>Cameraria hamadryadella</i>
1	Spotted lanternfly	<i>Lycorma delicatula</i>
1	Willow Oak Bud Gall	<i>Andricus coronus</i>
2	WOOL SOWER GALL	<i>Callirhytis seminator</i> Harr.
1	WOOLLY OAK GALL	<i>Callirhytis lanata</i> Gill.
1	YELLOWNECKED CATERPILLAR	<i>Datana ministra</i>

47	Total for Oak
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Oriental Arborvitae

1	SPRUCE MITE	<i>Oligonychus ununguis</i>
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1	Total for Oriental Arborvitae
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Ornamental Cherry

1	COULD NOT DIAGNOSE	
1	FALL WEBWORM	<i>Hyphantria cunea</i>
1	MAY BEETLES	<i>Phyllophaga spp.</i>
1	PEACHTREE BORER	<i>Synanthedon exitiosa</i>

4	Total for Ornamental Cherry
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Ornamental Pear

1	PEARLEAF BLISTER MITE	<i>Eriophyes pyri</i>
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1	Total for Ornamental Pear
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Pine

1	ALLEGHENY MOUND ANT	<i>Formica exsectoides</i> Forel
1	BAGWORM	<i>Thyridopteryx ephemeraeformis</i>
3	BARK BEETLES	
2	BLACK TURPENTINE BEETLE	<i>Dendroctonus terebrans</i>
1	CAMBIUM MINER	<i>Phytobius sp.</i>
1	CAROLINA MANTID	<i>Stagmomantis carolina</i>
1	GARDEN MILLIPEDE	<i>Oxidus gracilis</i>
1	GREEN LACEWINGS	
1	MOTHS	
2	NANTUCKET PINE TIP MOTH	<i>Rhyacionia frustrana</i>
1	NO INSECTS FOUND	
3	PALES WEEVIL	<i>Hylobius pales</i>
1	PARASITIC WASP COCOONS	
4	PINE BARK ADELGID	<i>Pineus strobi</i>

3	PINE NEEDLE SCALE	<i>Chionaspis pinifoliae</i>
1	PINE PINHOLE BORER	<i>Platypus flavicornis F.</i>
4	PINE SAWYERS	<i>Monochamus spp.</i>
1	PITYOGENES HOPKINSI	<i>Pityogenes hopkinsi</i>

32	Total for Pine
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Redbud

1	GRANULATE AMBROSIA BEETLE	<i>Xylosandrus crassiusculus</i>
1	HACKBERRY LEAFSLUG	<i>Norape cretata Grt.</i>
1	Spotted lanternfly	<i>Lycorma delicatula</i>
2	TWOSPOTTED SPIDER MITE	<i>Tetranychus urticae Koch</i>
1	XYLOSANDRUS GERMANUS	<i>Xylosandrus germanus</i>

6	Total for Redbud
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Sassafras

1	BARK BEETLES	
1	FLATHEADED BORERS	
1	No Diagnosis or Sample Quality Entered	

3	Total for Sassafras
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Snowbell

1	GRANULATE AMBROSIA BEETLE	<i>Xylosandrus crassiusculus</i>
1	LESSER SHOTHOLE BORER	<i>Xyleborinus saxeseni</i>
1	XYLOSANDRUS GERMANUS	<i>Xylosandrus germanus</i>

3	Total for Snowbell
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Spruce

1	NO MITES FOUND	
1	ROUNDHEADED BORERS	
2	SPRUCE MITE	<i>Oligonychus ununguis</i>
4	SPRUCE SPIDER MITE	<i>Oligonychus ununguis</i>
1	WHITE PINE WEEVIL	<i>Pissodes strobi</i>

9	Total for Spruce
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Sweet Gum

1	BARK BEETLES	
1	LESSER SHOTHOLE BORER	<i>Xyleborinus saxeseni</i>
1	XYLOSANDRUS GERMANUS	<i>Xylosandrus germanus</i>

3	Total for Sweet Gum
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Thorny Olive

1 BARK BEETLES

1 Total for Thorny Olive

Tree, Unknown

1	AMERICAN ERMINE MOTH	<i>Yponomeuta multipunctella</i>
1	BAGWORM	<i>Thyridopteryx ephemeraeformis</i>
1	BALDFACED HORNET	<i>Dolichovespula maculata</i>
1	FALL CANKERWORM	<i>Alsophila pometaria</i>
1	GALL MITES	
1	GARDEN MILLIPEDE	<i>Oxidus gracilis</i>
1	LEAF BEETLES	
1	ROUNDHEADED BORERS	
1	SPIDERS	
2	Spotted lanternfly	<i>Lycorma delicatula</i>
1	WHITESPOTTED SAWYER	<i>Monochamus scutellatus</i>
1	Yellow-bellied sapsucker	<i>Sphyrapicus varius</i>

13 Total for Tree, Unknown

Tree-of-heaven

7	Spotted lanternfly	<i>Lycorma delicatula</i>
1	No Diagnosis or Sample Quality Entered	

8 Total for Tree-of-heaven

Willow

1	Spotted lanternfly	<i>Lycorma delicatula</i>
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1 Total for Willow

Woodlot

2	DARKLING BEETLES	
1	RIBBED PINE BORER	<i>Rhagium inquisitor</i>

3 Total for Woodlot

Yellow Poplar

2	DARKWINGED FUNGUS GNATS	
1	ODOROUS HOUSE ANT	<i>Tapinoma sessile</i>
2	ORIBATID MITES	
2	SMOOTH SPRINGTAILS	
5	YELLOW POPLAR WEEVIL	<i>Odontopus calceatus</i>

12 Total for Yellow Poplar

Turf

Bermudagrass

- | | | |
|---|-------------|--------------------------|
| 1 | BILLBUGS | <i>Sphenophorus spp.</i> |
| 1 | WHITE GRUBS | |

2 Total for Bermudagrass

Bluegrass

- | | | |
|---|-------------|--|
| 1 | WHITE GRUBS | |
|---|-------------|--|

1 Total for Bluegrass

Turfgrass

- | | | |
|---|-------------------|-----------------------|
| 1 | GREEN JUNE BEETLE | <i>Cotinis nitida</i> |
| 1 | GROUND BEETLES | |
| 1 | HOPLIA BEETLES | <i>Hoplia spp.</i> |
| 1 | MOTH PUPAE | |
| 2 | NO MITES FOUND | |

6 Total for Turfgrass

Unknown

Unknown Outdoor Plant

- | | | |
|---|-----------------------------|---|
| 2 | ASSASSIN BUGS | |
| 1 | Bicolored Striped-Sweat bee | <i>Agapostemon virescens</i> |
| 1 | BLACK SWALLOWTAIL | <i>Papilio polyxenes asterius Stoll</i> |
| 1 | COSSONUS BARK WEEVILS | <i>Cossonus sp.</i> |
| 1 | COTESIA WASPS | <i>Cotesia spp.</i> |
| 1 | COTTONY MAPLE SCALE | <i>Pulvinaria innumerabilis</i> |
| 1 | COULD NOT DIAGNOSE | |
| 1 | DELTA FLOWER SCARAB | <i>Trigonopeltastes delta</i> |
| 1 | Eastern Tiger Swallowtail | <i>Papilio glaucus Linnaeus</i> |
| 1 | FLORIDA PREDATORY STINK BUG | <i>Euthyrhynchus floridanus L.</i> |
| 1 | GREEN LACEWINGS | |
| 1 | GYPSY MOTH | <i>Lymantria dispar</i> |
| 1 | HICKORY TUSsock MOTH | <i>Lophocampa caryae</i> |
| 1 | HUMMINGBIRD CLEARWING | <i>Hemaris thysbe</i> |
| 1 | LOOPERS | |
| 1 | NIESTHREA LOUISIANICA | <i>Niesthrea louisianica Sailer</i> |
| 1 | SMALL MILKWEED BUG | <i>Lygaeus kalmii</i> |
| 2 | Spotted lanternfly | <i>Lycorma delicatula</i> |

20 Total for Unknown Outdoor Plant

Unknown; No Site Specified

1	ASSASSIN BUG	<i>Pseliopus barberi</i>
1	DARKWINGED FUNGUS GNATS	
1	Eastern Cicada Killer	<i>Sphecius speciosus</i>
1	EASTERN CONENOSE	<i>Triatoma sanguisuga</i>
1	Eastern Tiger Swallowtail	<i>Papilio glaucus Linnaeus</i>
1	GARDEN MILLIPEDE	<i>Oxidus gracilis</i>
1	LACEWINGS	
1	MINUTE BROWN SCAVENGER BEETLES	
1	NO INSECTS FOUND	
1	PARASITIC WASP COCOONS	
1	PARASITIC WASPS	
1	SOLDIER FLIES	
1	SPHINX MOTHS	
1	SPIROSTREPTIDA MILLIPEDES	
1	Spotted lanternfly	<i>Lycorma delicatula</i>
1	TIGER MOTHS	
1	TUMBLING FLOWER BEETLES	
1	VARIED CARPET BEETLE	<i>Anthrenus verbasci</i>
1	WHEEL BUG	<i>Arilus cristatus</i>
1	Zelus Assassin Bugs	<i>Zelus sp.</i>

20 Total for Unknown; No Site Specified**Water**

1	FLOWER THRIPS	<i>Frankliniella tritici</i>
1	NO INSECTS FOUND	

2 Total for Water**Vegetables and Herbs****Bean**

1	FLOWER THRIPS	<i>Frankliniella tritici</i>
3	Gray Hairstreak	<i>Strymon melinus</i>
1	MARCH FLIES	
2	MEXICAN BEAN BEETLE	<i>Epilachna varivestis Mulsant</i>
1	SKIPPERS	

8 Total for Bean**Cabbage**

1	CABBAGE MAGGOT	<i>Delia radicum</i>
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1 Total for Cabbage

Cucumber

- 1 Flower Thrips *Frankliniella sp.*
- 1 NOT AN INSECT

2 Total for Cucumber

Eggplant

- 1 EGGPLANT TORTOISE BEETLE *Nuzonia pallidula*

1 Total for Eggplant

Garlic

- 1 BULB MITE *Rhizoglyphus echinopus*
- 1 ONION MAGGOT *Delia antiqua*

2 Total for Garlic

Ginger

- 1 PYRALID CATERPILLARS

1 Total for Ginger

Kale

- 1 BROWN GRAIN MITE *Penthaleus major*

1 Total for Kale

Leek

- 1 ONION MAGGOT *Delia antiqua*

1 Total for Leek

Lettuce

- 1 FOXGLOVE APHID *Acyrtosiphon solani*
- 1 MELON APHID *Aphis gossypii Glover*
- 1 Yellowjacket Hover Fly *Milesia virginiensis*

3 Total for Lettuce

Mint

- 1 DARKWINGED FUNGUS GNATS
- 1 LEAFHOPPERS

2 Total for Mint

Nasturtium

- 1 MINUTE FUNGUS BEETLES

1	Total for Nasturtium
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Onion

1	ONION THRIPS	<i>Thrips tabaci Lindeman</i>
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1	Total for Onion
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Oregano

1	Flower Thrips	<i>Frankliniella sp.</i>
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1	Total for Oregano
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Parsley

1	COMMON THRIPS
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1	Total for Parsley
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Pepper

1	BROWN MARMORATED STINK BUG	<i>Halyomorpha halys</i>
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1	COTTON APHID	<i>Aphis gossypii Glover</i>
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1	Flower Thrips	<i>Frankliniella sp.</i>
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3	Total for Pepper
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Plants, Miscellaneous

1	STINK BUGS
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1	Total for Plants, Miscellaneous
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Potato

1	TOMATO HORNWORM	<i>Manduca quinquemaculata</i>
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1	Total for Potato
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Pumpkin

1	PICKLEWORM	<i>Diaphania nitidalis</i>
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1	SQUASH BEETLE	<i>Epilachna borealis</i>
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2	Total for Pumpkin
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Rosemary

1	PLANT BUGS
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1	Total for Rosemary
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Salad Greens

1	HARLEQUIN BUG	<i>Murgantia histrionica</i>
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1	Total for Salad Greens
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Squash

- | | | |
|---|---------------------|----------------------------|
| 1 | MARCH FLIES | |
| 1 | PICKLEWORM | <i>Diaphania nitidalis</i> |
| 1 | SQUASH BUG | <i>Anasa tristis</i> |
| 1 | SQUASH VINE BORER | <i>Melittia cucurbitae</i> |
| 1 | TWOLINED SPITTLEBUG | <i>Prosapia bicincta</i> |

5	Total for Squash
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Tomato

- | | | |
|---|------------------------|----------------------------------|
| 1 | BROAD MITE | <i>Polyphagotarsonemus latus</i> |
| 2 | FLEA BEETLES | |
| 2 | POTATO APHID | <i>Macrosiphum euphorbiae</i> |
| 2 | TOMATO FRUITWORM | <i>Heliothis zea</i> |
| 1 | TOMATO RUSSET MITE | <i>Aculops lycopersici</i> |
| 1 | WIREWORMS | |
| 1 | YELLOWSTRIPED ARMYWORM | <i>Spodoptera ornithogalli</i> |

10	Total for Tomato
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Vegetable Garden

- | | | |
|---|----------------|--|
| 1 | SCARAB BEETLES | |
| 1 | TIGER MOTHS | |

2	Total for Vegetable Garden
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Watermelon

- | | | |
|---|-------------------------|--|
| 1 | SPOTTED CUCUMBER BEETLE | <i>Diabrotica undecimpunctata howardi</i>
<i>Barber</i> |
|---|-------------------------|--|

1	Total for Watermelon
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Zucchini

- | | | |
|---|-------------------|----------------------------|
| 1 | SQUASH VINE BORER | <i>Melittia cucurbitae</i> |
|---|-------------------|----------------------------|

1	Total for Zucchini
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Weeds

Milkweed

- | | | |
|---|------------------------|---------------------------------|
| 1 | SMALL MILKWEED BUG | <i>Lygaeus kalmii</i> |
| 1 | TWOSPOTTED SPIDER MITE | <i>Tetranychus urticae</i> Koch |

2	Total for Milkweed
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Virginia Creeper

1 PANDORUS SPHINX *Eumorpha pandorus*

1 Total for Virginia Creeper

Woody Ornamentals

Azalea

1 AZALEA BARK SCALE *Eriococcus azaleae* Comstock

9 AZALEA LACE BUG *Stephanitis pyrioides*

1 NO MITES FOUND

1 SOOTY MOLD

1 SOUTHERN RED MITE *Oligonychus ilicis*

2 SPIDER MITES

1 STRIPED MEALYBUG *Ferrisia virgata*

1 TWOSPOTTED SPIDER MITE *Tetranychus urticae* Koch

17 Total for Azalea

Bamboo

1 MASON BEES

1 NOXIOUS BAMBOO MEALYBUG *Antonina praetiosa*

2 Total for Bamboo

Barberry

2 BARBERRY WEBWORM *Omphalocera dentosa*

2 Total for Barberry

Boston Ivy

1 Spotted lanternfly *Lycorma delicatula*

1 Total for Boston Ivy

Boxwood

1 ARTILLERY FUNGUS *Sphaerobolus stellatus*

35 BOXWOOD LEAFMINER *Monarthropalpus buxi*

76 BOXWOOD MITE *Eurytetranychus buxi*

4 BOXWOOD PSYLLID *Psylla buxi*

2 BOXWOOD WEBWORM *Galasa nigrinodis*

1 CATERPILLARS

1 DEFOLIATORS

1 EUROPEAN HORNET *Vespa crabro germana* Christ

1 FLATID PLANTHOPPERS

2 JAPANESE MAPLE SCALE *Lopholeucaspis japonica*

1 SAN JOSE SCALE *Quadraspidiotus perniciosus*

125	Total for Boxwood
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Butterfly Bush

1	AMBROSIODMUS RUBICOLLIS	<i>Ambrosiodmus rubicollis</i>
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1	Total for Butterfly Bush
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Camellia

2	CAMELLIA RUST MITES
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1	COTTONY CAMELLIA SCALE	<i>Pulvinaria floccifera</i>
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1	NO INSECTS FOUND
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4	Total for Camellia
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Cherrylaurel

2	BARK BEETLES
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11	BLACK VINE WEEVIL	<i>Otiorhynchus sulcatus</i>
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1	JAPANESE MAPLE SCALE	<i>Lopholeucaspis japonica</i>
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1	SOUTHERN RED MITE	<i>Oligonychus ilicis</i>
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1	SPIDER MITES
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6	WHITE PEACH SCALE	<i>Pseudaulacaspis pentagona</i>
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22	Total for Cherrylaurel
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Cotoneaster

1	JAPANESE MAPLE SCALE	<i>Lopholeucaspis japonica</i>
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1	Total for Cotoneaster
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Crape Myrtle

1	APHIDS
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1	CRAPE MYRTLE APHID	<i>Tinocallis kahawaluokalani</i>
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2	CRAPE MYRTLE BARK SCALE	<i>Eriococcus lagerstroemiae</i> Kuwana
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1	DEFOLIATORS
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1	LADY BEETLES
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2	SOOTY MOLD
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8	Total for Crape Myrtle
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English Ivy

1	SPIDER MITES
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1	Total for English Ivy
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Euonymus

1	EUONYMUS SCALE	<i>Unaspis euonymi</i>
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1	LATANIA SCALE	<i>Hemiberlesia lataniae</i>
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1 OYSTERSHELL SCALE *Lepidosaphes ulmi*

3 Total for Euonymus

Evodia

1 Spotted lanternfly *Lycorma delicatula*

1 Total for Evodia

Flowering Quince

1 RUST MITES

1 Total for Flowering Quince

Hibiscus

1 HIBISCUS SAWFLY *Atomacera decepta Rohwer*

1 MELON APHID *Aphis gossypii Glover*

2 NIESTHREA LOUISIANICA *Niesthrea louisianica Sailer*

4 Total for Hibiscus

Holly

1 BLACK VINE WEEVIL *Otiorhynchus sulcatus*

1 CERASTIPSOCUS VENOSUS *Cerastipsocus venosus*

6 COTTONY CAMELLIA SCALE *Pulvinaria floccifera*

1 COULD NOT DIAGNOSE

1 DEFOLIATORS

1 INDIAN WAX SCALE *Ceroplastes ceriferus*

2 LATANIA SCALE *Hemiberlesia lataniae*

1 RUST MITES

1 SOOTY MOLD

3 SOUTHERN RED MITE *Oligonychus ilicis*

1 SPIDER MITES

1 SPIDERS

1 Spotted lanternfly *Lycorma delicatula*

21 Total for Holly

Hydrangea

2 BROAD MITE *Polyphagotarsonemus latus*

1 CARPENTER BEES

1 GRASSHOPPERS

1 POTTER WASPS

1 SAC SPIDERS

1 SPIDER MITES

2 TWOSPOTTED SPIDER MITE *Tetranychus urticae Koch*

9 Total for Hydrangea

Japanese Zelkova

1 Spotted lanternfly *Lycorma delicatula*

1 Total for Japanese Zelkova

Jasmine

1 COTTONY CAMELLIA SCALE *Pulvinaria floccifera*

1 Total for Jasmine

Juniper

1 BAGWORM *Thyridopteryx ephemeraeformis*

1 COULD NOT DIAGNOSE

2 JUNIPER SCALES *Carulaspis spp.*

1 MIDGES

5 SPRUCE MITE *Oligonychus ununguis*

1 SPRUCE SPIDER MITE *Oligonychus ununguis*

1 WEEVILS

12 Total for Juniper

Lilac

1 EUROPEAN HORNET *Vespa crabro germana Christ*

1 NO INSECTS FOUND

1 WAVED SPHINX *Ceratomia undulosa*

1 WHITE PEACH SCALE *Pseudaulacaspis pentagona*

4 Total for Lilac

Mountain Laurel

1 Aleuroplatus whiteflies *Aleuroplatus sp.*

1 Total for Mountain Laurel

Ninebark

1 TWOSPOTTED SPIDER MITE *Tetranychus urticae Koch*

1 Total for Ninebark

Pieris

1 ANDROMEDA LACE BUG *Stephanitis takeyai Drake & Maa.*

1 NOT AN INSECT

1 SOUTHERN RED MITE *Oligonychus ilicis*

3 Total for Pieris

Pyracantha

- | | | |
|---|----------------------|--------------------------------|
| 1 | HAWTHORN LACE BUG | <i>Corythucha cydoniae</i> |
| 1 | JAPANESE MAPLE SCALE | <i>Lopholeucaspis japonica</i> |

2	Total for Pyracantha
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Rhododendron

- | | | |
|---|--------------------------|--|
| 1 | BUGS | |
| 1 | GARDEN MILLIPEDE | <i>Oxidus gracilis</i> |
| 1 | RHODODENDRON LACE BUG | <i>Stephanitis rhododendri</i> Horvath |
| 1 | SPECKLED GREEN FRUITWORM | <i>Orthosia hibisci</i> |
| 2 | SPIDER MITES | |

6	Total for Rhododendron
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Rose

- | | | |
|---|------------------------|----------------------------------|
| 1 | JAPANESE BEETLE | <i>Popillia japonica</i> Newman |
| 1 | POTTER WASPS | |
| 1 | ROSE CHAFER | <i>Macrodactylus subspinosus</i> |
| 1 | ROSE ROSETTE MITES | |
| 1 | Rose Twig Galls | <i>Diplolepis</i> sp. |
| 2 | ROESLUG | <i>Endelomyia aethiops</i> |
| 2 | SPIDER MITES | |
| 1 | Spotted lanternfly | <i>Lycorma delicatula</i> |
| 1 | TWOSPOTTED SPIDER MITE | <i>Tetranychus urticae</i> Koch |

11	Total for Rose
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Rose-of-Sharon

- | | | |
|---|-----------------------|-------------------------------------|
| 2 | NIESTHREA LOUISIANICA | <i>Niesthrea louisianica</i> Sailer |
|---|-----------------------|-------------------------------------|

2	Total for Rose-of-Sharon
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Sweetspire

- | | | |
|---|------------------------|------------------------------|
| 1 | COTTONY CAMELLIA SCALE | <i>Pulvinaria floccifera</i> |
|---|------------------------|------------------------------|

1	Total for Sweetspire
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Viburnum

- | | | |
|---|----------------------|--|
| 1 | COULD NOT DIAGNOSE | |
| 1 | LEAFFOLDERS | |
| 1 | PYRALID CATERPILLARS | |

3	Total for Viburnum
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Witchhazel

- | | | |
|---|------------------------------|------------------------------|
| 1 | HICKORY TUSSOCK MOTH | <i>Lophocampa caryae</i> |
| 1 | SPINY WITCH-HAZEL GALL APHID | <i>Hamamelistes spinosus</i> |

2	Total for Witchhazel
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Yew

- 2 COTTONY CAMELLIA SCALE *Pulvinaria floccifera*
- 1 COTTONY TAXUS SCALE *Pulvinaria floccifera*
- 1 WEEVILS

4 Total for Yew**0 Samples with No Host Specified**

County Data 2019

County	# of Samples	% of Total
Out of State	5	0.4
ACCOMACK, VA	5	0.4
ALBEMARLE, VA	68	5.3
ALLEGHANY, VA	5	0.4
AMELIA, VA	4	0.3
AMHERST, VA	3	0.2
APPOMATTOX, VA	4	0.3
ARLINGTON, VA	23	1.8
AUGUSTA, VA	15	1.2
BATH, VA	4	0.3
BEDFORD, VA	14	1.1
BLAND, VA	1	0.1
BOTETOURT, VA	13	1

BRUNSWICK, VA	8	0.6
BUCHANAN, VA	5	0.4
CAMPBELL, VA	5	0.4
CAROLINE, VA	2	0.2
CARROLL, VA	20	1.6
CHARLOTTE, VA	5	0.4
CHESAPEAKE CITY, VA	21	1.6
CHESTERFIELD, VA	26	2
CLARKE, VA	6	0.5
CRAIG, VA	12	0.9
CULPEPER, VA	8	0.6
CUMBERLAND, VA	8	0.6
DANVILLE CITY, VA	3	0.2

DICKENSON, VA	6	0.5
DINWIDDIE, VA	6	0.5
ESSEX, VA	2	0.2
FAIRFAX, VA	42	3.3
FAUQUIER, VA	12	0.9
FLOYD, VA	17	1.3
FLUVANNA, VA	5	0.4
FRANKLIN, VA	12	0.9
FREDERICK, VA	74	5.8
GILES, VA	16	1.2
GLOUCESTER, VA	7	0.5
GOOCHLAND, VA	9	0.7
GRAYSON, VA	5	0.4
GREENE, VA	11	0.9
GREENSVILLE, VA	2	0.2
HALIFAX, VA	1	0.1
HAMPTON CITY, VA	4	0.3
HANOVER, VA	14	1.1
HENRICO, VA	54	4.2
HENRY, VA	1	0.1
HIGHLAND, VA	5	0.4

ISLE OF WIGHT, VA	3	0.2
JAMES CITY, VA	25	2
KING AND QUEEN, VA	1	0.1
KING GEORGE, VA	3	0.2
KING WILLIAM, VA	5	0.4
LANCASTER, VA	6	0.5
LEE, VA	10	0.8
LOUDOUN, VA	18	1.4
LOUISA, VA	10	0.8
LUNENBURG, VA	1	0.1
LYNCHBURG CITY, VA	31	2.4
MADISON, VA	8	0.6
MATHEWS, VA	1	0.1
MECKLENBURG, VA	3	0.2
MIDDLESEX, VA	3	0.2
MONTGOMERY, VA	84	6.6
NELSON, VA	35	2.7
NEW KENT, VA	8	0.6

NEWPORT NEWS CITY, VA	17	1.3
NORFOLK CITY, VA	24	1.9
NORTHAMPTON, VA	1	0.1
NORTHUMBERLAND, VA	8	0.6
NOTTOWAY, VA	4	0.3
ORANGE, VA	6	0.5
PAGE, VA	16	1.2
PATRICK, VA	3	0.2
PETERSBURG CITY, VA	1	0.1
PITTSYLVANIA, VA	5	0.4
PORTSMOUTH CITY, VA	4	0.3
POWHATAN, VA	10	0.8
PRINCE EDWARD, VA	6	0.5
PRINCE GEORGE, VA	6	0.5
PRINCE WILLIAM, VA	29	2.3
PULASKI, VA	7	0.5
RAPPAHANNOCK, VA	16	1.2

RICHMOND, VA	1	0.1
RICHMOND CITY, VA	19	1.5
ROANOKE, VA	34	2.7
ROCKBRIDGE, VA	20	1.6
ROCKINGHAM, VA	7	0.5
RUSSELL, VA	16	1.2
SCOTT, VA	6	0.5
SHENANDOAH, VA	13	1
SMYTH, VA	3	0.2
SOUTHAMPTON, VA	4	0.3
SPOTSYLVANIA, VA	7	0.5
STAFFORD, VA	17	1.3
SUFFOLK CITY, VA	7	0.5
SUSSEX, VA	1	0.1
TAZEWELL, VA	5	0.4
VIRGINIA BEACH, VA	11	0.9
WARREN, VA	7	0.5
WASHINGTON, VA	5	0.4

WESTMORELAND, VA	11	0.9
WISE, VA	10	0.8
WYTHE, VA	25	2
YORK, VA	37	2.9

Total	1,282	
Samples with no county entered	0	