

Insect Identification Laboratory Publication

Revised 2021

Insect Identification Laboratory

Annual Report 2020



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 1,007 requests were received in 2020. This report summarizes the activity of the Insect Identification Laboratory at Virginia Tech for 2020.

In 2020 56% of samples were submitted electronically, see Source of Samples on page 3.

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: Periodical Cicada, Brood IX, Craig County, May 24, 2020, photo by Eric Day

Source of Samples

Row Labels	Count of SubmissionType
Agent	109
Agent Electronic	310
EDDMaps	5
eXtension Ask an Expert	93
Government, Local	18
Mail In	28
Mail-in Citizen Electronic	138
Mail-in Electronic	12
Medical Doctor	1
Other	2
Referral from Plant Disease Clinic	110
SLF Detection Portal	2
USDA APHIS PPQ	3
VDACS	90
VDF	10
Virginia Department of Corrections	1
VPI Campus	11
VPI Entomology	30
VPI Station	14
Walk-In	18
(blank)	
Grand Total	1005

Monthly Submission Summary

Month	# Samples
2020 *	
January	66 *
February	45 *
March	62 *
April	57 *
May	143 *
June	106 *
July	112 *
August	125 *
September	112 *
October	96 *
November	62 *
December	21 *
Total for 2020 within the specified date range	1,007 *

Submitter Affiliation Summary

Submitter Type	# of Samples	% of Total
Alson H. Smith, Jr. AREC	12	1%
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	3	0%
Entomology	217	22%
Eric Bowen	0	0%
Extension Agent or Staff	613	61%
Extension Specialist - Campus	2	0%
Food Science and Technology	0	0%
Forestry	14	1%
Hampton Roads AREC	16	2%
Horticulture	0	0%

Master Gardener	3	0%
Master Gardener Coordinator	1	0%
Medical Doctor	0	0%
Northern Piedmont AREC	0	0%
Plant Pathology, Physiology and Weed Science	0	0%
Researcher, University	1	0%
Shenandoah Valley Agricultural Research and Extens	0	0%
Southern Piedmont AREC	0	0%
Southwest Va AREC	0	0%
SPDN Lab	0	0%
State Agency	0	0%
Survey	0	0%
Tidewater AREC	0	0%
Univeristy or College	0	0%
University or College	0	0%
Unknown	2	0%
US Forest Service	0	0%
USDA APHIS PPQ	4	0%
VA Department of Forestry	10	1%
VDACS	20	2%
VDACS, Office of Plant Protection	70	7%
Veterinary College	0	0%
Virginia State University	0	0%
Virginia Tech	1	0%
Walk-in or Direct Mail-in	18	2%
Warsaw AREC	0	0%
Winchester AREC	0	0%
Total	1,007	

Crop Category

Crop Location	# of Samples	% of Total
Animal	10	1
Arboretum	0	0
Athletic Field	0	0
Barn or other structure for animals	1	0.1
Barn, Shed, or Outbuilding	3	0.3

Bee Hive	4	0.4
Botanical Garden	2	0.2
Botanical Garden	0	0
Building	20	2
Christmas Tree Farm	4	0.4
Cold Frame	0	0
Compost	0	0
Container in Landscape	0	0
Driveway	3	0.3
Driveway or Sidewalk	2	0.2
Earth Box	0	0
Feed	1	0.1
Field/Farm	34	3.4
Food, Food Products	4	0.4
Forest	15	1.5
Garden	29	2.9
Garden center	2	0.2
Golf Course	1	0.1
Green Roof	0	0
Greenhouse	6	0.6
Ground	14	1.4
Growth chamber	1	0.1
Heated hoop house	0	0
High Tunnel	1	0.1
Hoop House	0	0
House	152	15.1
House	5	0.5
House Wood	25	2.5
Household and Recreational Area	0	0
Human	29	2.9
Hydroponic Culture	2	0.2
Indoor Laboratory Hydroponic Research ^[Disabled]	0	0
Indoor Plant	1	0.1
Insect	0	0
Kitchen, Pantry, or food storage area	0	0
Lake	0	0
Lawn/Landscape	417	41.5
Lumber	0	0
Mason bee house	0	0

Maze	0	0
Mountain	0	0
Mulch or Compost	0	0
Museum	0	0
Natural Setting	2	0.2
None Given	1	0.1
Nursery	24	2.4
Orchard	22	2.2
Other	4	0.4
Outdoor Hydroponic Culture[Disabled]	0	0
Outdoor Potted Plant	0	0
Park	7	0.7
Parking Lot	2	0.2
Pasture	3	0.3
Playground	1	0.1
Pond	1	0.1
Pool	2	0.2
Porch, Deck, or Patio	27	2.7
Potted Plant	7	0.7
Poultry House	0	0
Raised Bed	0	0
Research Plot	0	0
Research, indoor	0	0
Retail Outlet	1	0.1
River	0	0
Roadside	4	0.4
Sentinel plot	0	0
Shopping Center / Parking Lot	0	0
Sidewalk	1	0.1
Sod Farm	0	0
Soil	2	0.2
Spring	0	0
Starting Bed	0	0
Storage	0	0
Stored Products	7	0.7
Traffic Island	1	0.1
Trap, Insect	66	6.6
Tree Farm	0	0
Unknown	23	2.3
Vehicle	2	0.2

Vineyard	5	0.5
Vineyard	0	0
Water Garden	0	0
Water system, House	0	0
water well	0	0
Wetlands	1	0.1
Wildlife Habitat	0	0
Total	1,004	
Samples with no crop location specified	3	

91 Record(s)

Host Pest Data for 2020

No Crop Type Specified		
Bluebell; Mertensia		
1	Large carpenter bee	<i>Xylocopa micans</i>
1	Total for Bluebell; Mertensia	
Bok Choy; Chinese Cabbage		
1	Yellowmargined leaf beetle	<i>Microtheca ochroloma</i>
1	Total for Bok Choy; Chinese Cabbage	
Curley Dock		
1	Spotted lanternfly	<i>Lycorma delicatula</i>
1	Total for Curley Dock	
Daphniphyllum		
1	GRANULATE AMBROSIA BEETLE	<i>Xylosandrus crassiusculus</i>
1	Total for Daphniphyllum	
Horse		
1	DEER TICK	<i>Ixodes scapularis</i>
1	Total for Horse	

Lumber

1	BARK BEETLES	
1	OAK TIMBERWORM	<i>Arrhenodes minutus</i>
1	Oxoplatypus quadridentatus	<i>Oxoplatypus quadridentatus</i>

3 Total for Lumber

Nuttall Oak

1	Zale Moths	<i>Zale sp.</i>
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1 Total for Nuttall Oak

Outside on ground

3	ALLEGHENY MOUND ANT	<i>Formica exsectoides Forel</i>
1	American bumble bee	<i>Bombus pensylvanicus</i>
1	ANDRENID BEES	
1	ANTS	
1	ARMYWORM	<i>Pseudaletia unipuncta</i>
1	ASIAN NEEDLE ANT	<i>Pachycondyla chinensis</i>
1	Bark-gnawing beetle	<i>Temnoscheila virescens</i>
1	BEDSTRAW SPHINX	<i>Hyles gallii</i>
1	BOXELDER BUG	<i>Leptocoris trivittatus</i>
1	BUMBLE BEES	<i>Bombus sp.</i>
1	Bumblebee wax moth	<i>Aphomia sociella</i>
1	Burrowing wolf spider	<i>Geolycosa xera</i>
1	COMMON CONEHEADS	<i>Neoconocephalus sp.</i>
3	Corklid trapdoor spiders	<i>Ummidia sp.</i>
1	COULD NOT DIAGNOSE	
2	CRAB SPIDERS	
1	CRANE FLIES	
2	DOGDAY CICADA	<i>Tibicen spp.</i>
7	Eastern Cicada Killer	<i>Sphecius speciosus</i>
13	EUROPEAN HORNET	<i>Vespa crabro germana Christ</i>
1	GIANT RESIN BEE	<i>Megachile sculptularis Smith</i>
1	GIANT STAG BEETLE	<i>Lucanus elaphus F.</i>
1	GLOWWORMS	<i>Phengodes sp.</i>
1	GREAT GOLDEN DIGGER WASP	<i>Sphex ichneumonis</i>
3	GREEN JUNE BEETLE	<i>Cotinis nitida</i>
1	HERMIT SPHINX	<i>Sphinx eremitus</i>
1	HICKORY HORNED DEVIL	<i>Citheronia regalis</i>
2	HORSEHAIR WORMS	
1	Ilia Underwing	<i>Catocala ilia</i>
1	LAMPYRID BEETLES	
1	LARGER ELM LEAF BEETLE	<i>Monocesta coryli</i>
1	LONE STAR TICK	<i>Amblyomma americanum</i>

1	Myrmica Ants	<i>Myrmica sp./spp.</i>
1	OIL BEETLE	<i>Meloe spp.</i>
1	PAVEMENT ANT	<i>Tetramorium caespitum</i>
1	PERIODICAL CICADA	<i>Magicicada septendecim</i>
1	PHIDIPPUS SPIDERS	<i>Phidippus sp.</i>
4	RED IMPORTED FIRE ANT	<i>Solenopsis invicta Buren</i>
1	Red oak borer	<i>Enaphalodes rufulus</i>
2	SALTMARSH CATERPILLAR	<i>Estigmene acrea</i>
1	SEXTON BEETLES	<i>Nicrophorus spp.</i>
1	SMALLER YELLOW ANT	<i>Acanthomyops claviger</i>
1	SOLITARY BEES	
1	Southern yellowjacket	<i>Vespula squamosa</i>
8	Spotted lanternfly	<i>Lycorma delicatula</i>
1	SPRINGTAILS	
3	Terrestrial flatworm	<i>Bipalium kewense</i>
1	TOBACCO HORNWORM	<i>Manduca sexta</i>
1	TOMATO HORNWORM	<i>Manduca quinquemaculata</i>
1	UNDERWING MOTHS	<i>Catocala spp.</i>
1	WEEVILS	
1	WHEEL BUG	<i>Arilus cristatus</i>
1	WHITESPOTTED SAWYER	<i>Monochamus scutellatus</i>
1	Wolf spider	<i>Rabidosa rabida</i>
1	WOODLOUSE SPIDER	<i>Dysdera crocata</i>
1	YELLOW ANTS	<i>Acanthomyops spp.</i>

96	Total for Outside on ground
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Smooth Sumac

1	Biglegged Plant Bug	<i>Acanthocephala declivis</i>
1	Spotted lanternfly	<i>Lycorma delicatula</i>

2	Total for Smooth Sumac
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Wood

1	LONGHORNED BEETLES
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1	Total for Wood
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Yellow Water Lily

1	PLANT BUGS
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1	Total for Yellow Water Lily
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Animal

Cat

- 1 LONE STAR TICK *Amblyomma americanum*
- 1 TICKS

2	Total for Cat
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Cattle	
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- 2 Longhorned Tick *Haemaphysalis longicornis*

2	Total for Cattle
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Chicken	
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- 1 LONE STAR TICK *Amblyomma americanum*

1	Total for Chicken
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Domestic Dog	
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- 1 AMERICAN DOG TICK *Dermacentor variabilis*
- 2 DEER TICK *Ixodes scapularis*
- 2 LONE STAR TICK *Amblyomma americanum*

5	Total for Domestic Dog
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Farm animal; livestock	
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- 1 BLACKLEGGED TICK *Ixodes scapularis*

1	Total for Farm animal; livestock
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Animal Feed	
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Feed, Animal	
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- 1 DARK MEALWORM *Tenebrio obscurus Fabricius*

1	Total for Feed, Animal
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Bee Hive	
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Bee Hive	
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- 3 EUROPEAN HORNET *Vespa crabro germana Christ*
- 1 HONEY BEE *Apis mellifera L.*

4	Total for Bee Hive
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Field Crops	
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Barley	
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- 1 APHIDS

1	Total for Barley
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Clover

1 CLOVER LEAF WEEVIL *Hypera punctata*

1 Total for Clover

Corn

1 LESSER MEALWORM *Alphitobius diaperinus*

1 Total for Corn

Hay

1 DARK MEALWORM *Tenebrio obscurus Fabricius*

1 GREEN JUNE BEETLE *Cotinis nitida*

2 Total for Hay

Hemp

1 AMBUSH BUGS

1 COULD NOT DIAGNOSE

1 Eurasian Hemp Borer *Grapholita delineana*

1 Insidious flower bug *Orius insidiosus*

1 LADY BEETLES

1 NO INSECTS FOUND

1 POTTER WASPS

1 PRAYING MANTIDS

1 Rice Root Aphid *Rhopalosiphum rufiabdominale*

1 ROOT MAGGOTS

1 TWOSPOTTED SPIDER MITE *Tetranychus urticae Koch*

1 WHITE MARGINED BURROWER BUG *Sehirus cinctus*

12 Total for Hemp

Pasture

4 RED IMPORTED FIRE ANT *Solenopsis invicta Buren*

4 Total for Pasture

Rye

1 BLACK SOLDIER FLY *Hermetia illucens*

1 Total for Rye

Soybean

1 ALLEGHENY MOUND ANT *Formica exsectoides Forel*

1 POTATO LEAFHOPPER *Empoasca fabae*

1 THREECORNERED ALFALFA HOPPER *Spissistilus festinus*

3	Total for Soybean
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Wheat

1	English grain aphid	<i>Sitobion (Macrosiphum) avenae</i>
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1	Total for Wheat
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Herbaceous Ornamentals and Indoor Plants

Amaranth

1	DISONYCHA FLEA BEETLES	<i>Disonycha sp.</i>
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1	Flower Thrips	<i>Frankliniella sp.</i>
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2	Total for Amaranth
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Cactus

1	MEALYBUGS
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1	Total for Cactus
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Coneflower

1	SPIDER MITES
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1	Total for Coneflower
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Daffodil

1	HOPLIA BEETLES	<i>Hoplia spp.</i>
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1	Total for Daffodil
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Euphorbia

1	DARKWINGED FUNGUS GNATS
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1	Total for Euphorbia
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Flower, Unknown

1	HONEY BEE	<i>Apis mellifera L.</i>
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1	NIESTHREA LOUISIANICA	<i>Niesthrea louisianica Sailer</i>
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2	Total for Flower, Unknown
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Gardenia

1	CITRUS WHITEFLY	<i>Dialeurodes citri</i>
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1	SOOTY MOLD
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2	Total for Gardenia
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Gladiolus

2 BAGWORM *Thyridopteryx ephemeraeformis*

2 Total for Gladiolus

Houseplant

1 SPIDER MITES

1 Total for Houseplant

Indoor Plants, Miscellaneous

1 EASTERN YELLOWJACKET *Vespula maculifrons*

1 Total for Indoor Plants, Miscellaneous

Iris

1 CHRYSOLINA LEAF BEETLES *Chrysolina spp.*

1 THRIPS

2 Total for Iris

Milkweed

1 MILKWEED TUSSOCK MOTH *Euchaetias egle Drury*

1 Total for Milkweed

Pachysandra

1 FORBES SCALE *Diaspidiotus forbesi*

1 SCURFY SCALE *Chionaspis furfura*

2 Total for Pachysandra

Pansy

1 MONARCH BUTTERFLY *Danaus plexippus*

1 Ornate aphid *Myzus ornatus*

2 Total for Pansy

Phlox

1 SNOWBERRY CLEARWING *Hemaris diffinia*

1 Total for Phlox

Plant, Unknown

1 Aerial yellowjacket *Dolichovespula arenaria*

1 Banded Argiope spider *Argiope trifasciata*

1 BUMBLE BEES *Bombus sp.*

1 EUROPEAN HORNET *Vespa crabro germana Christ*

1	LARGER ELM LEAF BEETLE	<i>Monocesta coryli</i>
1	MAYFLIES	
1	PICTUREWING FLIES	
1	RHUBARB WEEVIL	<i>Lixus concavus</i>
1	SOLDIER FLIES	
1	YELLOW GARDEN SPIDER	<i>Argiope aurantia</i>

10	Total for Plant, Unknown
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Scabiosa

1	VIRGIN TIGER MOTH	<i>Apantesis virgo</i>
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1	Total for Scabiosa
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Schefflera

1	BROWN SOFT SCALE	<i>Coccus hesperidum Linnaeus</i>
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1	Total for Schefflera
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Sedum

1	ANDRENID BEES
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1	Total for Sedum
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Sunflower

1	Entylia carinata	<i>Entylia carinata</i>
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1	Total for Sunflower
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Sweet Flag

1	FALSE OLEANDER SCALE	<i>Pseudaulacaspis cockerelli</i>
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1	Total for Sweet Flag
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Unknown Indoor Plant

1	BULB MITE	<i>Rhizoglyphus echinopus</i>
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1	Total for Unknown Indoor Plant
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Zinnia

1	DISONYCHA FLEA BEETLES	<i>Disonycha sp.</i>
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1	Total for Zinnia
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Household and Recreational Area

Automobile; recreational vehicle

1	ANGOUMOIS GRAIN MOTH	<i>Sitotroga cerealella</i>
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1	DOBSONFLY	<i>Corydalus cornutus</i>
1	Eastern Cicada Killer	<i>Sphecius speciosus</i>
1	INDIANMEAL MOTH	<i>Plodia interpunctella</i>

4	Total for Automobile; recreational vehicle
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Building

1	AGELENOPSIS FUNNEL WEAVERS	<i>Agelenopsis spp.</i>
3	BED BUG	<i>Cimex lectularius Linnaeus</i>
1	BLACK CARPENTER ANT	<i>Camponotus pennsylvanicus</i>
1	BLOW FLIES	
1	CATERPILLAR EGGS	
1	DARKLING BEETLES	
1	DARKWINGED FUNGUS GNATS	
1	Eastern Cicada Killer	<i>Sphecius speciosus</i>
1	ENTOMOBRYID SPRINGTAILS	
1	EUROPEAN HORNET	<i>Vespa crabro germana Christ</i>
1	GLOWWORMS	<i>Phengodes sp.</i>
1	GREEN LACEWINGS	
1	LEAFHOPPERS	
1	MINUTE BROWN SCAVENGER BEETLES	
1	PSOCIDS	
1	SOWBUGS	
1	VINEGAR FLIES	
1	WOOD ROACHES	<i>Parcoblatta spp.</i>

20	Total for Building
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Driveway/Sidewalk

1	CATERPILLARS
1	CRANE FLIES

2	Total for Driveway/Sidewalk
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Food; Food Products

1	BLACK CARPET BEETLE	<i>Attagenus megatoma</i>
1	CARPET BEETLES	
1	DRUGSTORE BEETLE	<i>Stegobium paniceum</i>
1	GRAIN MITE	<i>Acarus siro Linnaeus</i>
2	INDIANMEAL MOTH	<i>Plodia interpunctella</i>
1	MURKY MEAL MOTH	<i>Aglossa caprealis Hubner</i>
1	PSOCIDS	
1	SAWTOOTHED GRAIN BEETLE	<i>Oryzaephilus surinamensis</i>
3	VARIED CARPET BEETLE	<i>Anthrenus verbasci</i>
1	VINEGAR FLIES	

13 Total for Food; Food Products**House**

1	ANTLIKE FLOWER BEETLES	
1	APHIDS	
1	ASIAN NEEDLE ANT	<i>Pachycondyla chinensis</i>
1	ASSASSIN BUG	<i>Pselliopus barberi</i>
1	BAT BUG	<i>Cimex adjunctus</i>
1	BETHYLID WASPS	
1	BIGHEADED GROUND BEETLE	<i>Scarites subterraneus</i>
1	BITING MIDGES	
1	BLOW FLIES	
1	BROWN GARDEN SNAIL	<i>Helix aspersa</i>
2	CAMEL CRICKETS	
1	CAT FLEA	<i>Ctenocephalides felis</i>
1	CATERPILLAR EGGS	
1	Checkered beetle	<i>Enoclerus ichneumoneus</i>
1	COULD NOT DIAGNOSE	
1	CRICKETS	
1	Cryptolestes grain beetles	<i>Cryptolestes sp./spp.</i>
1	DARK HOPLIA	<i>Hoplia trivialis</i>
2	DARKWINGED FUNGUS GNATS	
1	DRUGSTORE BEETLE	<i>Stegobium paniceum</i>
1	EARTHWORM	<i>Lumbricus rubellus</i>
1	Eastern Bark Centipede	<i>Hemiscolopendra marginata</i>
2	Eastern Cicada Killer	<i>Sphecius speciosus</i>
2	EASTERN CONENOSE	<i>Triatoma sanguisuga</i>
1	EASTERN HERCULES BEETLE	<i>Dynastes tityus</i>
1	EASTERN SUBTERRANEAN TERMITE	<i>Reticulitermes flavipes</i>
1	ENTOMOBRYID SPRINGTAILS	
15	EUROPEAN HORNET	<i>Vespa crabro germana Christ</i>
1	FALL WEBWORM	<i>Hyphantria cunea</i>
2	FOREIGN GRAIN BEETLE	<i>Ahasverus advena</i>
1	Four spotted yellowneck	<i>Oegoconia quadripuncta</i>
1	GARDEN MILLIPEDE	<i>Oxidus gracilis</i>
1	GERMAN COCKROACH	<i>Blattella germanica</i>
4	GROUND BEETLES	
1	HARPALUS GROUND BEETLES	<i>Harpalus SP.</i>
1	ICHNEUMON MENDEX	<i>Ichneumon mendex</i>
2	INDIANMEAL MOTH	<i>Plodia interpunctella</i>
1	Insidious flower bug	<i>Orius insidiosus</i>
1	LEAFFOOTED BUGS	
1	LEAFHOPPERS	
1	LIPOSCELIS BOOKLICE	<i>Liposcelis spp.</i>

1	LONG NECK SEED BUG	<i>Myodocha serripes</i>
1	LONGHORNED BEETLES	
2	MIDGES	
4	NO BITING INSECTS FOUND	
4	NO INSECTS OR MITES FOUND	
1	NOT AN INSECT	
4	ODOROUS HOUSE ANT	<i>Tapinoma sessile</i>
2	PHORID FLIES	
1	PIGEON TREMEX	<i>Tremex columba</i>
4	PSOCIDS	
1	PYRALID MOTHS	
1	RED FLOUR BEETLE	<i>Tribolium castaneum</i>
1	RICE WEEVIL	<i>Sitophilus oryzae</i>
1	ROBBER FLIES	
1	RODENT BOT FLIES	<i>Cuterebra spp.</i>
1	Rusty spider wasp	<i>Tachypompilus ferrugineus</i>
1	SAC SPIDERS	
1	SILKEN FUNGUS BEETLES	
1	SMOKYBROWN COCKROACH	<i>Periplaneta fuliginosa</i>
1	SOLITARY WASPS	
1	SOWBUGS	
2	STINK BUGS	
2	STONEFLIES	
1	SUNFLOWER MOTH	<i>Homoeosoma electellum</i>
1	THIEF ANT	<i>Solenopsis molesta</i>
1	TIGROSA ANNEXA	<i>Tigrosa annexa</i>
1	VARIED CARPET BEETLE	<i>Anthrenus verbasci</i>
1	WHEEL BUG	<i>Arilus cristatus</i>
2	WOLF SPIDERS	
1	WOOL CARDER BEE	<i>Anthidium manicatum</i>
4	YELLOW ANTS	<i>Acanthomyops spp.</i>

115	Total for House
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House Wood

1	ACROBAT ANTS	<i>Crematogaster spp.</i>
3	BLACK CARPENTER ANT	<i>Camponotus pennsylvanicus</i>
1	DARKLING BEETLES	
1	DRYWOOD TERMITES	
1	HALICTID BEES	
2	LEAF-CUTTER BEES	
1	NO INSECTS FOUND	
1	OAK TIMBERWORM	<i>Arrhenodes minutus</i>
1	PINE PINHOLE BORER	<i>Platypus flavicornis F.</i>
1	POWDERPOST BEETLES	

1 ROUNDHEADED BORERS

14 Total for House Wood

Human Clothing

1 CASEMAKING CLOTHES MOTH *Tinea pellionella L.*

1 Total for Human Clothing

Outside on structure

1	American Bird Grasshopper	<i>Schistocerca americana</i>
1	Biglegged Plant Bug	<i>Acanthocephala declivis</i>
1	BROWN MARMORATED STINK BUG	<i>Halyomorpha halys</i>
1	BUMBLE BEES	<i>Bombus sp.</i>
2	CAROLINA MANTID	<i>Stagmomantis carolina</i>
2	CATERPILLARS	
2	COULD NOT DIAGNOSE	
10	Eastern Cicada Killer	<i>Sphecius speciosus</i>
1	EIGHTSPOTTED FORESTER	<i>Alypia octomaculata</i>
94	EUROPEAN HORNET	<i>Vespa crabro germana Christ</i>
1	FLATHEADED APPLETREE BORER	<i>Chrysobothris femorata</i>
1	GARDEN MILLIPEDE	<i>Oxidus gracilis</i>
3	Globular Springtails	
1	GREAT GOLDEN DIGGER WASP	<i>Sphex ichneumonis</i>
1	HAG MOTH	<i>Phobetron pithecium</i>
1	IMPERIAL MOTH	<i>Eacles imperialis</i>
1	INSECT EGGS	
1	Interrupted dagger	<i>Acronicta interrupta</i>
1	KATYDID EGGS	
1	LEAF BEETLES	
3	MIDGES	
1	NOCTUID MOTHS	
1	PINK-SPOTTED HAWK MOTH	<i>Agrius cingulatus</i>
3	PROMACHUS RUFIPES	<i>Promachus rufipes</i>
1	SCULPTURED PINE BORER	<i>Chalcophora virginensis</i>
1	SHORT-HORNED GRASSHOPPER	
1	SOUTHERN BLACK WIDOW SPIDER	<i>Latrodectus mactans</i>
1	Southern yellowjacket	<i>Vespula squamosa</i>
5	Spotted lanternfly	<i>Lycorma delicatula</i>
1	SUCCINEA AMBER SNAILS	<i>Succinea spp.</i>
1	THORNBUGS	
1	TREEHOPPERS	
1	Western Leaf-footed Bug	<i>Leptoglossus clypealis</i>
2	WHEEL BUG	<i>Arilus cristatus</i>
1	WIDOW SPIDERS	<i>Latrodectus sp.</i>

1 YELLOW GARDEN SPIDER *Argiope aurantia*

152 Total for Outside on structure

Wood Flooring

1 BLACK POLYCAON *Polycaon stouti*
5 BORERS
1 FOREIGN GRAIN BEETLE *Ahasverus advena*
1 NO INSECTS FOUND
1 OLD HOUSE BORER *Hylotrupes bajulus*
3 POWDERPOST BEETLES
3 ROUNDHEADED BORERS
2 SOUTHERN LYCTUS BEETLE *Lyctus carbonarius Waltl 1832*
1 SUBTERRANEAN TERMITES *Reticulitermes spp.*
1 VARIED CARPET BEETLE *Anthrenus verbasci*
1 WESTERN LYCTUS *Lyctus cavicollis*

20 Total for Wood Flooring

Wooden object

1 POWDERPOST BEETLES
1 West Indian drywood termite *Cryptotermes brevis*

2 Total for Wooden object

Yard

1 DARKWINGED FUNGUS GNATS
1 EARTHWORM *Lumbricus rubellus*
2 Eastern Cicada Killer *Sphecius speciosus*
1 EASTERN SUBTERRANEAN TERMITE *Reticulitermes flavipes*
2 EUROPEAN HORNET *Vespa crabro germana Christ*
1 PUSS CATERPILLAR *Megalopyge opercularis*
1 Southern yellowjacket *Vespula squamosa*
1 Tipula Crane Flies *Tipula sp.*

10 Total for Yard

Human

Human

1 AMERICAN DOG TICK *Dermacentor variabilis*
1 BAT BUG *Cimex adjunctus*
1 BED BUG *Cimex lectularius Linnaeus*
1 Bombardier Beetle *Brachinus sp.*
1 CARPET BEETLES
1 CLOVER MITE *Bryobia praetiosa Koch*

1	COULD NOT DIAGNOSE	
2	DEER TICK	<i>Ixodes scapularis</i>
1	EASTERN CONENOSE	<i>Triatoma sanguisuga</i>
3	GULF COAST TICK	<i>Amblyomma maculatum</i>
1	IXODES TICKS	<i>Ixodes spp.</i>
1	LACEWINGS	
6	LONE STAR TICK	<i>Amblyomma americanum</i>
1	Longhorned Tick	<i>Haemaphysalis longicornis</i>
1	LOUSE FLIES	
1	MINUTE BROWN SCAVENGER BEETLES	
1	MITES	
2	NO BITING INSECTS FOUND	
2	PUSS CATERPILLAR	<i>Megalopyge opercularis</i>
1	ROBBER FLIES	
1	TICKS	
1	WHEEL BUG	<i>Arilus cristatus</i>

32	Total for Human
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Mulch

Compost

1	Small dung fly	<i>Family Sphaeroceridae</i>
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1	Total for Compost
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Nonplant Material

Mulch

1	Woodland ant	<i>Aphaenogaster rudis</i>
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1	Total for Mulch
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Soil

2	Jumping Worm	<i>Amyntas spp</i>
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2	Total for Soil
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Pest Survey

Trap, Insect

1	AEOLUS WIREWORMS	<i>Aeolus spp.</i>
2	Agrilus Beetles	<i>Agrilus sp.</i>
1	AMBROSIA BEETLE	<i>Oxyoplatypus quadridentatus</i>
37	BARK BEETLES	
2	BEAN PLATASPID	<i>Megacopta cribraria</i>

2	CAMPBOR SHOT BORER	<i>Cnestus mutilatus</i>
2	CONODERUS VESPERTINUS	<i>Conoderus vespertinus</i>
1	GRAPE LEAFFOLDER	<i>Desmia funeralis</i>
15	MOTHS	
1	NOCTUID MOTHS	
1	PYRALID MOTHS	
10	WALNUT TWIG BEETLE	<i>Pityophthorus juglandis</i>
1	XYLEBORINUS SAXESENII	<i>Xyleborinus saxesenii</i>
1	XYLEBORUS PUBESCENS	<i>Xyleborus pubescens</i>

77	Total for Trap, Insect
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Walnut

1	GRANULATE AMBROSIA BEETLE	<i>Xylosandrus crassiusculus</i>
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1	Total for Walnut
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Small Fruits

Blueberry

1	Drexel's Datana	<i>Datana drexelii</i>
1	Green coneheaded planthopper	<i>Acanalonia conica</i>
1	SOLDIER BEETLES	

3	Total for Blueberry
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Fig

1	EUROPEAN HORNET	<i>Vespa crabro germana Christ</i>
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1	Total for Fig
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Grape

1	APHIDS
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1	Total for Grape
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Raspberry

1	JAPANESE BEETLE	<i>Popillia japonica Newman</i>
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1	Total for Raspberry
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Strawberry

1	ANTS
1	APHIDS

2	Total for Strawberry
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Tree Fruits and Nuts

Apple

1	BORERS	
1	EASTERN TENT CATERPILLAR	<i>Malacosoma americanum</i>
1	FLEA BEETLES	
1	FOREST TENT CATERPILLAR	<i>Malacosoma disstria Hubner</i>
2	LOCUST LEAFMINER	<i>Odontota dorsalis</i>
1	ROSY APPLE APHID	<i>Dysaphis plantaginea</i>
1	Strawberry bud weevil	<i>Anthonomus signatus</i>
1	TIPHIID WASPS	
1	WHITE PEACH SCALE	<i>Pseudaulacaspis pentagona</i>
2	WOOLLY APPLE APHID	<i>Eriosoma lanigerum</i>

12 Total for Apple

Apricot

1	PLUM CURCULIO	<i>Conotrachelus nenuphar</i>
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1 Total for Apricot

Asian Pear

1	PLUM CURCULIO	<i>Conotrachelus nenuphar</i>
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1 Total for Asian Pear

Cherry

1	BORERS	
1	EASTERN HERCULES BEETLE	<i>Dynastes tityus</i>
1	WHITE PEACH SCALE	<i>Pseudaulacaspis pentagona</i>

3 Total for Cherry

Chestnut

1	DARKWINGED FUNGUS GNATS	
2	GRANULATE AMBROSIA BEETLE	<i>Xylosandrus crassiusculus</i>
1	XYLOSANDRUS GERMANUS	<i>Xylosandrus germanus</i>

4 Total for Chestnut

Mulberry

1	FALL WEBWORM	<i>Hyphantria cunea</i>
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1 Total for Mulberry

Peach

1	JAPANESE BEETLE	<i>Popillia japonica Newman</i>
2	PEACHTREE BORER	<i>Synanthedon exitiosa</i>

3	PLUM CURCULIO	<i>Conotrachelus nenuphar</i>
1	WHITESPOTTED SAWYER	<i>Monochamus scutellatus</i>
1	WIREWORMS	

8 Total for Peach

Plum

2	PLUM CURCULIO	<i>Conotrachelus nenuphar</i>
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2 Total for Plum

Tree Fruit, Unknown

1	GROUND BEETLES	
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1 Total for Tree Fruit, Unknown

Walnut

1	EUWALIACEA VALIDUS	<i>Euwaliacea validus</i>
1	FLATHEADED BORERS	
1	NOT INSECT DAMAGE	
1	WALNUT CATERPILLAR	<i>Datana integerrima Grote & Robinson</i>
1	WALNUT TWIG BEETLE	<i>Pityophthorus juglandis</i>

5 Total for Walnut

Trees

Arborvitae

2	ARBORVITAE LEAFMINER	<i>Argyresthia thuiella</i>
1	ARMORED SCALES	
1	CRYPTOMERIA SCALE	<i>Aspidiotus cryptomeriae Kuwana</i>
1	FALSE SPIDER MITES	
1	MASKELL SCALE	<i>Lepidosaphes spp.</i>
1	NO INSECTS OR MITES FOUND	
2	SPRUCE MITE	<i>Oligonychus ununguis</i>

9 Total for Arborvitae

Ash

1	Agrilus Beetles	<i>Agrilus sp.</i>
1	Ash Leaf Gall	<i>Dasineura pellex</i>
5	EMERALD ASH BORER	<i>Agrilus planipennis Fairmaire</i>
1	FLATID PLANTHOPPERS	
1	Six-spotted Tiger Beetle	<i>Cicindela sexguttata</i>

9 Total for Ash

Baldcypress

1 FLETCHER SCALE *Parthenolecanium fletcheri*

1 Total for Baldcypress

Beech

1 CATERPILLARS

1 COULD NOT DIAGNOSE

1 FLATHEADED APPLETREE BORER *Chrysobothris femorata*

3 Total for Beech

Birch

1 LEOPARD MOTH *Zeuzera pyrina*

1 SPINY WITCH-HAZEL GALL APHID *Hamamelistes spinosus*

2 Total for Birch

Black Gum

1 Sourgum Gall mite *Eriophyes nyssae*

1 Sourgum scale *Chionaspis (Phenacaspis) nyssae*

1 SWEETGUM SCALE *Diaspidiotus liquidambaris*

3 Total for Black Gum

Catalpa

1 CATALPA SPHINX *Ceratonia catalpae*

1 Total for Catalpa

Cherry

1 ROUNDHEADED BORERS

1 Total for Cherry

Chestnut

1 POTATO LEAFHOPPER *Empoasca fabae*

1 Total for Chestnut

Cypress

1 CINARA APHIDS *Cinara spp.*

3 JUNIPER SCALES *Carulaspis spp.*

1 ORIBATID MITES

1 SPRUCE MITE *Oligonychus ununguis*

1 VELVET MITES

7 Total for Cypress

Dogwood

1	DOGWOOD BORER	<i>Synanthedon scitula</i>
2	DOGWOOD SAWFLY	<i>Macremphytus tarsatus</i>
1	FLATHEADED APPLETREE BORER	<i>Chrysobothris femorata</i>
1	SADDLED PROMINENT	<i>Heterocampa guttivitta</i>

5 Total for Dogwood

Douglasfir

1	Douglas-fir pitch moth	<i>Synanthedon novoarvensis</i>
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1 Total for Douglasfir

Eastern Hophornbeam

1	JAPANESE MAPLE SCALE	<i>Lopholeucaspis japonica</i>
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1 Total for Eastern Hophornbeam

Elm

1	GREEN LACEWINGS	
1	LARGER ELM LEAF BEETLE	<i>Monocesta coryli</i>
1	LECANIUM SCALES	<i>Parthenolecanium spp.</i>
1	NOT INSECT DAMAGE	
2	WOOLLY ELM APHID	<i>Eriosoma americanum</i>

6 Total for Elm

Fir

1	BALSAM TWIG APHID	<i>Mindarus abietinus Koch</i>
1	CINARA APHIDS	<i>Cinara spp.</i>

2 Total for Fir

Hackberry

1	COULD NOT DIAGNOSE	
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1 Total for Hackberry

Kentucky Coffee Tree

1	Spotted lanternfly	<i>Lycorma delicatula</i>
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1 Total for Kentucky Coffee Tree

Linden

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

Live Oak

- | | | |
|---|-------------------|-------------------------|
| 1 | OAK KERMES | <i>Kermes pubescens</i> |
| 2 | ODOROUS HOUSE ANT | <i>Tapinoma sessile</i> |

3 Total for Live Oak

Magnolia

- | | | |
|---|----------------------|-----------------------------------|
| 1 | FALSE OLEANDER SCALE | <i>Pseudaulacaspis cockerelli</i> |
| 1 | Leaffooted bug | <i>Leptoglossus fulvicornis</i> |
| 1 | MAGNOLIA SCALE | <i>Neolecanium cornuparvum</i> |
| 1 | YELLOW POPLAR WEEVIL | <i>Odontopus calceatus</i> |

4 Total for Magnolia

Maple

- | | | |
|---|--------------------------------|--------------------------------------|
| 3 | BAGWORM | <i>Thyridopteryx ephemeraeformis</i> |
| 1 | BANDED WOOD SNAIL | <i>Cepaea nemoralis</i> |
| 1 | BROWN MARMORATED STINK BUG | <i>Halyomorpha halys</i> |
| 1 | CAMPBOR SHOT BORER | <i>Cnestus mutilatus</i> |
| 1 | FALL WEBWORM | <i>Hyphantria cunea</i> |
| 1 | GLOOMY SCALE | <i>Melanaspis tenebricosa</i> |
| 1 | JAPANESE BEETLE | <i>Popillia japonica Newman</i> |
| 1 | JAPANESE MAPLE SCALE | <i>Lopholeucaspis japonica</i> |
| 1 | LECANIUM SCALES | <i>Parthenolecanium spp.</i> |
| 1 | Mite Predator | <i>Phytoseiulus persimilis</i> |
| 1 | MULTICOLORED ASIAN LADY BEETLE | <i>Harmonia axyridis</i> |
| 1 | NO INSECTS FOUND | |
| 1 | NOT INSECT DAMAGE | |
| 1 | OYSTERSHELL SCALE | <i>Lepidosaphes ulmi</i> |
| 1 | PIGEON TREMEX | <i>Tremex columba</i> |
| 1 | POTATO LEAFHOPPER | <i>Empoasca fabae</i> |
| 1 | SHEETWEB WEAVER SPIDERS | |
| 3 | Spotted lanternfly | <i>Lycorma delicatula</i> |
| 1 | TWOSPOTTED SPIDER MITE | <i>Tetranychus urticae Koch</i> |

23 Total for Maple

Oak

- | | | |
|---|----------------------------|------------------------------------|
| 1 | ANTS | |
| 2 | CATERPILLARS | |
| 2 | CONTRACTED DATANA | <i>Datana contracta Walker</i> |
| 4 | COULD NOT DIAGNOSE | |
| 1 | EUROPEAN HORNET | <i>Vespa crabro germana Christ</i> |
| 1 | FLATHEADED APPLETREE BORER | <i>Chrysobothris femorata</i> |
| 1 | HORNED OAK GALL | <i>Callirhytis cornigera</i> |
| 1 | LIVE OAK WOOLLY LEAF GALL | <i>Andricus quercuslanigera</i> |

1	Lobeliae Dagger Moth	<i>Acrionicta lobeliae</i>
1	Nitidulid beetle	<i>Glischrochilus quadrisignatus</i>
1	NO INSECTS FOUND	
1	OAK BULLET GALLS	<i>Neuroterus spp.</i>
2	OAK BUTTON GALL	<i>Neuroterus umbilicatus</i> Bass.
1	OAK LACE BUG	<i>Corythucha arcuata</i>
1	OAK SKELETONIZER	<i>Bucculatrix ainsliella</i> Murtfeldt
1	Oak Twig Galls	<i>Callirhytis sp.</i>
1	PIGEON TREMEX	<i>Tremex columba</i>
1	ROUNDHEADED BORERS	
1	Spotted lanternfly	<i>Lycorma delicatula</i>
1	WEDGE-SHAPED OAK GALL	<i>Andricus quercusstrobianus</i>

26	Total for Oak
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Ornamental Cherry

1	FALL WEBWORM	<i>Hyphantria cunea</i>
2	JAPANESE BEETLE	<i>Popillia japonica</i> Newman
1	PEACHTREE BORER	<i>Synanthedon exitiosa</i>
1	SHOTHOLE BORER	<i>Scolytus rugulosus</i>

5	Total for Ornamental Cherry
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Ornamental Peach

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

1	JAPANESE MAPLE SCALE	<i>Lopholeucaspis japonica</i>
1	ORIENTAL BEETLE	<i>Anomala orientalis</i>

2	Total for Ornamental Plum
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Osage-orange

1	Spotted lanternfly	<i>Lycorma delicatula</i>
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1	Total for Osage-orange
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Pine

1	ARROWHEAD BORER	<i>Xylotrechus sagittatus</i>
1	BAGWORM	<i>Thyridopteryx ephemeraeformis</i>
1	Bark-gnawing beetle	<i>Temnoscheila virescens</i>
2	BLACK TURPENTINE BEETLE BORERS	<i>Dendroctonus terebrans</i>
1	CAROLINA MANTID	<i>Stagmomantis carolina</i>
1	CHRYSOLINA LEAF BEETLES	<i>Chrysolina spp.</i>

4	EASTERN FIVESPINED IPS	<i>Ips grandicollis</i>
1	EASTERN PINE ENGRAVER	<i>Ips pini</i>
1	INTRODUCED PINE SAWFLY	<i>Diprion similis</i>
1	LONGHORNED BEETLES	
1	MULTICOLORED ASIAN LADY BEETLE	<i>Harmonia axyridis</i>
1	NOT INSECT DAMAGE	
1	PALES WEEVIL	<i>Hylobius pales</i>
1	PINE NEEDLE SCALE	<i>Chionaspis pinifoliae</i>
2	PINE SAWYERS	<i>Monochamus spp.</i>
2	REDHEADED PINE SAWFLY	<i>Neodiprion lecontei</i>
1	RUST MITES	
1	SAP BEETLES	
1	Spotted lanternfly	<i>Lycorma delicatula</i>
1	Xyleborus Bark Beetle	<i>Xyleborus</i>
1	XYLEBORUS PUBESCENS	<i>Xyleborus pubescens</i>

28 Total for Pine

Serviceberry

1	CATERPILLARS	
1	JAPANESE BEETLE	<i>Popillia japonica Newman</i>
1	PEAR SAWFLY	<i>Caliroa cerasi</i>

3 Total for Serviceberry

Shortleaf Pine

1	Margarodid scale	<i>Matsucoccus sp./spp.</i>
1	PITCH MIDGES	<i>Cecidomyia sp.</i>

2 Total for Shortleaf Pine

Snowbell

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

Spruce

1	COULD NOT DIAGNOSE	
1	NOT AN INSECT	
1	PYRALID CATERPILLARS	
1	SPRUCE SPIDER MITE	<i>Oligonychus ununguis</i>
1	WHITE PINE WEEVIL	<i>Pissodes strobi</i>

5 Total for Spruce

Sweet Gum

1	GRANULATE AMBROSIA BEETLE	<i>Xylosandrus crassiusculus</i>
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1	Total for Sweet Gum
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Tree, Unknown

1	BALDFACED HORNET	<i>Dolichovespula maculata</i>
1	Biglegged Plant Bug	<i>Acanthocephala declivis</i>
1	CERASTIPSOCUS VENOSUS	<i>Cerastipsocus venosus</i>
1	CROWNED SLUG	<i>Isa textula</i>
1	Eastern Cicada Killer	<i>Sphecius speciosus</i>
1	EIPSOCID BARKLICE	
1	HORNED OAK GALL	<i>Callirhytis cornigera</i>
1	LARGER ELM LEAF BEETLE	<i>Monocesta coryli</i>
1	LONGHORNED BEETLES	
1	OAK TIMBERWORM	<i>Arrhenodes minutus</i>
1	ORANGESTRIPED OAKWORM	<i>Anisota senatoria</i>
1	PINKSTRIPED OAKWORM	<i>Anisota virginiensis</i>
1	Spotted lanternfly	<i>Lycorma delicatula</i>
1	WHEEL BUG	<i>Arilus cristatus</i>

14	Total for Tree, Unknown
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Tree-of-heaven

1	Spotted lanternfly	<i>Lycorma delicatula</i>
1	TREEHOPPERS	

2	Total for Tree-of-heaven
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Trees, Miscellaneous

1	CERASTIPSOCUS VENOSUS	<i>Cerastipsocus venosus</i>
1	MEALYBUGS	

2	Total for Trees, Miscellaneous
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Tulip Tree

1	Spotted lanternfly	<i>Lycorma delicatula</i>
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1	Total for Tulip Tree
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Willow, Black

1	Spotted lanternfly	<i>Lycorma delicatula</i>
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1	Total for Willow, Black
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Yellow Poplar

1	COULD NOT DIAGNOSE	
1	Tuliptree aphid	<i>Illinoia (Macrosiphum) liriodendri</i>
2	YELLOW POPLAR WEEVIL	<i>Odontopus calceatus</i>

4	Total for Yellow Poplar
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Turf

Turfgrass

1	ANDRENID BEES	
1	ASIAN NEEDLE ANT	<i>Pachycondyla chinensis</i>
1	CUTWORMS	
1	NORTHERN MOLE CRICKET	<i>Neocurtilla hexadactyla</i>

4 Total for Turfgrass

Unknown

Unknown Outdoor Plant

1	BLACK-WAVED FLANNEL MOTH	<i>Lagoa crispata</i>
1	Bush katydid	<i>Scudderia sp./spp.</i>
1	DOBSONFLY	<i>Corydalus cornutus</i>
1	EARTHWORMS	
1	Eastern Cicada Killer	<i>Sphecius speciosus</i>
1	FLORIDA PREDATORY STINK BUG	<i>Euthyrhynchus floridanus L.</i>
1	Grapevine epimenis	<i>Psychomorpha epimenis</i>
1	HONEY BEE	<i>Apis mellifera L.</i>
1	LEAFFOOTED BUG	<i>Leptoglossus phyllopus</i>
1	NIESTHREA LOUISIANICA	<i>Niesthrea louisianica Sailer</i>
1	PERIODICAL CICADA	<i>Magicicada septendecim</i>
1	PIGEON TREMEX	<i>Tremex columba</i>
1	PUSS CATERPILLAR	<i>Megalopyge opercularis</i>
1	Southeastern Sunflower Burrowing-Resin bee	<i>Paranthidium jugatorium lepidum</i>
1	TOMATO HORNWORM	<i>Manduca quinquemaculata</i>

15 Total for Unknown Outdoor Plant

Unknown; No Site Specified

1	ALDERFLIES	
1	ASSASSIN BUG	<i>Pselliopus barberi</i>
1	BAT BUG	<i>Cimex adjunctus</i>
1	BED BUG	<i>Cimex lectularius Linnaeus</i>
1	BED BUGS	
1	BLACK CARPENTER ANT	<i>Camponotus pennsylvanicus</i>
2	BROAD-NECKED ROOT BORER	<i>Prionus laticollis</i>
1	BROWN MARMORATED STINK BUG	<i>Halyomorpha halys</i>
1	CEDAR TREE BORER	<i>Semanotus ligneus</i>
1	Checkered beetle	<i>Enoclerus ichneumoneus</i>

1	Eastern Cicada Killer	<i>Sphecius speciosus</i>
6	EUROPEAN HORNET	<i>Vespa crabro germana</i> Christ
1	HARLEQUIN BUG	<i>Murgantia histrionica</i>
1	LARGER CANNA LEAFROLLER	<i>Calpodex ethlius</i>
1	LONE STAR TICK	<i>Amblyomma americanum</i>
1	PIGEON TREMEX	<i>Tremex columba</i>
2	PROMACHUS RUFIPES	<i>Promachus rufipes</i>
1	ROBBER FLIES	
1	Rosy predator snail	<i>Euglandina rosea</i>
1	SOUTHERN PINE SAWYER	<i>Monochamus titillator</i>
1	Southern yellowjacket	<i>Vespula squamosa</i>
1	WHEEL BUG	<i>Arilus cristatus</i>
1	WOLF SPIDERS	

30	Total for Unknown; No Site Specified
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Vegetables and Herbs

Basil

1	Bush katydid	<i>Scudderia sp./spp.</i>
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1	Total for Basil
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Bean

1	Bean leafroller	<i>Urbanus proteus</i>
1	BROWN MARMORATED STINK BUG	<i>Halyomorpha halys</i>
1	LOCUST LEAFMINER	<i>Odontota dorsalis</i>
1	MEXICAN BEAN BEETLE	<i>Epilachna varivestis</i> Mulsant

4	Total for Bean
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Collards

1	Cabbage Flea Beetle	<i>Phyllotreta cruciferae</i>
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1	Total for Collards
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Cucumber

2	Flower Thrips	<i>Frankliniella sp.</i>
1	SHORE FLIES	

3	Total for Cucumber
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Ginger

1	INSECT DAMAGE
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1	Total for Ginger
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Ginseng

1 Flower Thrips *Frankliniella sp.*

1 Total for Ginseng

Gourd

1 Eastern Cicada Killer *Sphecius speciosus*

1 Total for Gourd

Herbs, Miscellaneous

1 Ground Mealybugs *Rhizoecus sp.*

1 Total for Herbs, Miscellaneous

Kale

1 Cabbage Flea Beetle *Phyllotreta cruciferae*

1 HARLEQUIN BUG *Murgantia histrionica*

2 Total for Kale

Lettuce

1 Flower Thrips *Frankliniella sp.*

1 Total for Lettuce

Parsley

1 CARPET BEETLES

1 Total for Parsley

Pea

1 Flower Thrips *Frankliniella sp.*

1 Total for Pea

Pepper

1 Flower Thrips *Frankliniella sp.*

1 LEAFFOOTED BUGS

2 Total for Pepper

Potato

1 Neolema Leaf beetle *Neolema sp./spp.*

1 TORTOISE BEETLES

2 Total for Potato

Pumpkin

1 Flower Thrips *Frankliniella sp.*

1 Total for Pumpkin

Sage

1 LEAFHOPPERS

1 Total for Sage

Salad Greens

1 COULD NOT DIAGNOSE

1 Total for Salad Greens

Squash

1 GROUND BEETLES

1 LEAFFOOTED BUGS

1 SQUASH BUG *Anasa tristis*

1 SQUASH VINE BORER *Melittia cucurbitae*

1 STRIPED CUCUMBER BEETLE *Acalymma vittatum*

5 Total for Squash

Sweet Corn

1 LEAFFOOTED BUGS

1 STEM WEEVILS

2 Total for Sweet Corn

Tomato

1 BROWN MARMORATED STINK BUG *Halyomorpha halys*

1 Flower Thrips *Frankliniella sp.*

1 Spined stilt bug *Jalysus wickhami*

1 THRIPS

1 TOMATO FRUITWORM *Heliothis zea*

5 Total for Tomato

Vegetable Garden

1 COMMON CONEHEADS *Neoconocephalus sp.*

1 STINK BUGS

2 Total for Vegetable Garden

Vegetable Garden Soil

1 EARTHWORMS

1 Total for Vegetable Garden Soil

Zucchini

1 NO INSECTS OR MITES FOUND

1 Total for Zucchini

Weeds

Milkweed

1 OLEANDER APHID *Aphis nerii Fonscolombe*

1 Total for Milkweed

Woody Ornamentals

Azalea

1 AZALEA CATERPILLAR *Datana major Grote and Robinson*

1 AZALEA LACE BUG *Stephanitis pyrioides*

1 BALDFACED HORNET *Dolichovespula maculata*

1 Iliia Underwing *Catocala ilia*

4 Total for Azalea

Bamboo

1 Thread scale *Kuwanaspis hikosani*

1 Total for Bamboo

Barberry

2 BARBERRY WEBWORM *Omphalocera dentosa*

2 Total for Barberry

Beautyberry

1 CRAPE MYRTLE BARK SCALE *Eriococcus lagerstroemiae Kuwana*

1 Total for Beautyberry

Bittersweet

1 EUONYMUS SCALE *Unaspis euonymi*

1 Total for Bittersweet

Boxwood

19 BOXWOOD LEAFMINER *Monarthropalpus buxi*

32 BOXWOOD MITE *Eurytetranychus buxi*

2 BOXWOOD PSYLLID *Psylla buxi*

4 COULD NOT DIAGNOSE

- 1 FUNGUS GNATS
- 1 NORTHERN FLATID PLANTHOPPER *Anormenis chloris*
- 1 ORIBATID MITES
- 1 OYSTERSHELL SCALE *Lepidosaphes ulmi*
- 1 SNAILS
- 1 SOFT SCALES
- 1 TEA SCALE *Fiorinia theae Green*

64 Total for Boxwood

Camellia

- 1 CAMELLIA RUST MITES
- 1 COTTONY CAMELLIA SCALE *Pulvinaria floccifera*
- 1 SPIDER MITES

3 Total for Camellia

Cherrylaurel

- 2 BLACK VINE WEEVIL *Otiorhynchus sulcatus*
- 1 SOUTHERN RED MITE *Oligonychus ilicis*
- 1 WHITE PEACH SCALE *Pseudaulacaspis pentagona*

4 Total for Cherrylaurel

Crape Myrtle

- 7 CRAPE MYRTLE BARK SCALE *Eriococcus lagerstroemiae Kuwana*
- 1 FALL WEBWORM *Hyphantria cunea*
- 1 Ladybird beetle *Hyperaspis sp./spp.*
- 1 LECANIUM SCALES *Parthenolecanium spp.*

10 Total for Crape Myrtle

Euonymus

- 1 NOT AN INSECT
- 1 RUST MITES

2 Total for Euonymus

Holly

- 1 Boxwood webworm *Galasa nigrinodis*
- 4 COTTONY CAMELLIA SCALE *Pulvinaria floccifera*
- 1 COULD NOT DIAGNOSE
- 1 INDIAN WAX SCALE *Ceroplastes ceriferus*
- 2 JAPANESE MAPLE SCALE *Lopholeucaspis japonica*
- 1 LATANIA SCALE *Hemiberlesia lataniae*
- 1 SCALE INSECTS
- 1 SOOTY MOLD

- 3 TEA SCALE
- 1 WHITEFLIES

Fiorinia theae Green

16 Total for Holly

Hydrangea

- 1 Chilli thrips; Yellow tea thrips *Scirtothrips dorsalis*

1 Total for Hydrangea

Juniper

- 1 SPRUCE MITE *Oligonychus ununguis*
- 1 WEEVILS

2 Total for Juniper

Linden

- 1 TWIG GIRDLER *Oncideres cingulata*

1 Total for Linden

Ninebark

- 1 CATERPILLARS

1 Total for Ninebark

Pieris

- 1 ANDROMEDA LACE BUG *Stephanitis takeyai* Drake & Maa.
- 1 TWOSPOTTED SPIDER MITE *Tetranychus urticae* Koch

2 Total for Pieris

Privet

- 1 EUONYMUS SCALE *Unaspis euonymi*
- 1 PRIVET RUST MITE *Aculus ligustri*

2 Total for Privet

Pyracantha

- 2 INDIAN WAX SCALE *Ceroplastes ceriferus*

2 Total for Pyracantha

Quince

- 1 HAWTHORN LACE BUG *Corythucha cydoniae*

1 Total for Quince

Rhododendron

1	AZALEA STEM BORER	<i>Oberea myops</i> Haldeman
1	BLACK VINE WEEVIL	<i>Otiorhynchus sulcatus</i>
1	RHODODENDRON BORER	<i>Synanthedon rhododendri</i> <i>Beutenmuller</i>
1	Tipula Crane Flies	<i>Tipula</i> sp.

4	Total for Rhododendron
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Scotch Broom

1	Scotch Broom Eriophyid mite	<i>Aceria genistae</i>
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1	Total for Scotch Broom
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Smoke Tree

1	Spotted lanternfly	<i>Lycorma delicatula</i>
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1	Total for Smoke Tree
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Trumpetvine

1	Spotted lanternfly	<i>Lycorma delicatula</i>
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1	Total for Trumpetvine
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Yew

1	COTTONY CAMELLIA SCALE	<i>Pulvinaria floccifera</i>
1	COTTONY TAXUS SCALE	<i>Pulvinaria floccifera</i>

2	Total for Yew
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0	Samples with No Host Specified
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County Data 2020

County	# of Samples	% of Total
Out of State	5	0.5
ACCOMACK, VA	5	0.5
ALBEMARLE, VA	35	3.5

ALEXANDRIA CITY, VA	6	0.6
ALLEGHANY, VA	1	0.1
AMELIA, VA	4	0.4
AMHERST, VA	2	0.2

APPOMATTOX, VA	1	0.1
ARLINGTON, VA	9	0.9
AUGUSTA, VA	20	2
BATH, VA	3	0.3
BEDFORD, VA	14	1.4
BLAND, VA	1	0.1
BOTETOURT, VA	5	0.5
BUCKINGHAM, VA	2	0.2
CAMPBELL, VA	4	0.4
CAROLINE, VA	3	0.3
CARROLL, VA	9	0.9
CHARLES CITY, VA	3	0.3
CHARLOTTE, VA	3	0.3
CHESAPEAKE CITY, VA	11	1.1
CHESTERFIELD, VA	25	2.5
CLARKE, VA	14	1.4
CRAIG, VA	7	0.7
CULPEPER, VA	5	0.5
CUMBERLAND, VA	2	0.2
DANVILLE CITY, VA	3	0.3

DICKENSON, VA	4	0.4
DINWIDDIE, VA	6	0.6
ESSEX, VA	2	0.2
FAIRFAX, VA	54	5.4
FAUQUIER, VA	8	0.8
FLOYD, VA	28	2.8
FLUVANNA, VA	10	1
FRANKLIN, VA	8	0.8
FREDERICK, VA	55	5.5
GILES, VA	8	0.8
GLOUCESTER, VA	3	0.3
GOOCHLAND, VA	24	2.4
GRAYSON, VA	11	1.1
GREENE, VA	2	0.2
GREENSVILLE, VA	2	0.2
HALIFAX, VA	9	0.9
HAMPTON CITY, VA	7	0.7
HANOVER, VA	13	1.3
HENRICO, VA	65	6.5
HENRY, VA	8	0.8
HIGHLAND, VA	2	0.2

ISLE OF WIGHT, VA	4	0.4
JAMES CITY, VA	8	0.8
KING AND QUEEN, VA	1	0.1
KING GEORGE, VA	2	0.2
LANCASTER, VA	7	0.7
LEE, VA	6	0.6
LOUDOUN, VA	22	2.2
LOUISA, VA	2	0.2
LUNENBURG, VA	1	0.1
LYNCHBURG CITY, VA	17	1.7
MADISON, VA	11	1.1
MECKLENBURG, VA	1	0.1
MONTGOMERY, VA	66	6.6
NELSON, VA	16	1.6
NEW KENT, VA	1	0.1
NEWPORT NEWS CITY, VA	7	0.7
NORFOLK CITY, VA	4	0.4

NORTHAMPTON, VA	5	0.5
NORTHUMBERLAND, VA	6	0.6
NOTTOWAY, VA	6	0.6
ORANGE, VA	3	0.3
PAGE, VA	11	1.1
PATRICK, VA	2	0.2
PITTSYLVANIA, VA	4	0.4
PORTSMOUTH CITY, VA	4	0.4
POWHATAN, VA	10	1
PRINCE EDWARD, VA	1	0.1
PRINCE GEORGE, VA	5	0.5
PRINCE WILLIAM, VA	21	2.1
PULASKI, VA	5	0.5
RAPPAHANNOCK, VA	12	1.2
RICHMOND CITY, VA	7	0.7
ROANOKE, VA	27	2.7
ROCKBRIDGE, VA	10	1

ROCKINGHAM, VA	8	0.8
RUSSELL, VA	5	0.5
SCOTT, VA	2	0.2
SHENANDOAH, VA	10	1
SMYTH, VA	2	0.2
SOUTHAMPTON, VA	1	0.1
SPOTSYLVANIA, VA	7	0.7
STAFFORD, VA	12	1.2
SUFFOLK CITY, VA	4	0.4
SURRY, VA	1	0.1
SUSSEX, VA	2	0.2

TAZEWELL, VA	3	0.3
VIRGINIA BEACH, VA	31	3.1
WARREN, VA	7	0.7
WASHINGTON, VA	11	1.1
WESTMORELAND, VA	2	0.2
WILLIAMSBURG CITY, VA	1	0.1
WISE, VA	13	1.3
WYTHE, VA	9	0.9
YORK, VA	30	3
Total	1,007	
Samples with no county entered	0	