

**Clemson University Plant Problem Clinic,
Nematode Assay Lab and Molecular Plant
Pathogen Detection Lab Semi-Annual Report
For 2013 (January – June)**

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Clemson University Plant Problem Clinic, Nematode Assay Lab and Molecular Plant Pathogen Detection Lab Semi-Annual Report For 2013 (January-June)

The Plant Problem Clinic serves the people of South Carolina as a multidisciplinary lab that provides diagnoses of plant diseases and identifications of weeds and insect pests of plants and structures. Plant pathogens, insect pests and weeds can significantly reduce plant growth and development. Household insects can infest our food and cause structural damage to our homes. The Plant Problem Clinic addresses these problems by providing identifications, followed by management recommendations. The Clinic also serves as an information resource for Clemson University Extension, teaching, regulatory and research personnel.

As a part of the Department of Plant Industry in Regulatory Services, the Plant Problem Clinic also helps to detect and document new plant pests and diseases in South Carolina. The Molecular Plant Pathogen Detection Lab is vital to the effort of detecting regulated pathogens, especially in support of Cooperative Agricultural Pest Surveys and, on occasion, from Plant Problem Clinic samples.

In the first half of 2013, the Plant Problem Clinic received 524 samples. The continued success of the Plant Problem Clinic could only be accomplished through the cooperation of numerous individuals in various disciplinary areas across the Clemson University system. A listing of our collaborators, showing the number of samples with which they assisted, follows.

The Nematode Assay Lab, directed by Dr. Paula Agudelo, located within the Department of Entomology, Soils and Plant Sciences, provides the valuable service of identifying plant parasitic nematodes in soil samples sent through the Clinic. The Nematode Assay Lab received 855 samples from January through June in 2013. Many of these samples are in support of research performed by Clemson University faculty in Agricultural Sciences.

Each summer, we are assisted by Clemson University students or, in some cases graduates or graduate students. This year, Mr. Mark Chestnut, a graduate with a B.S. degree in Biology, worked in our lab. He put this report together and we appreciate this effort and all the additional help he has provided throughout the summer.

Diagnostic Inputs

Primary Identifiers Providing
Diagnoses/Identifications for the Clinic in 2013

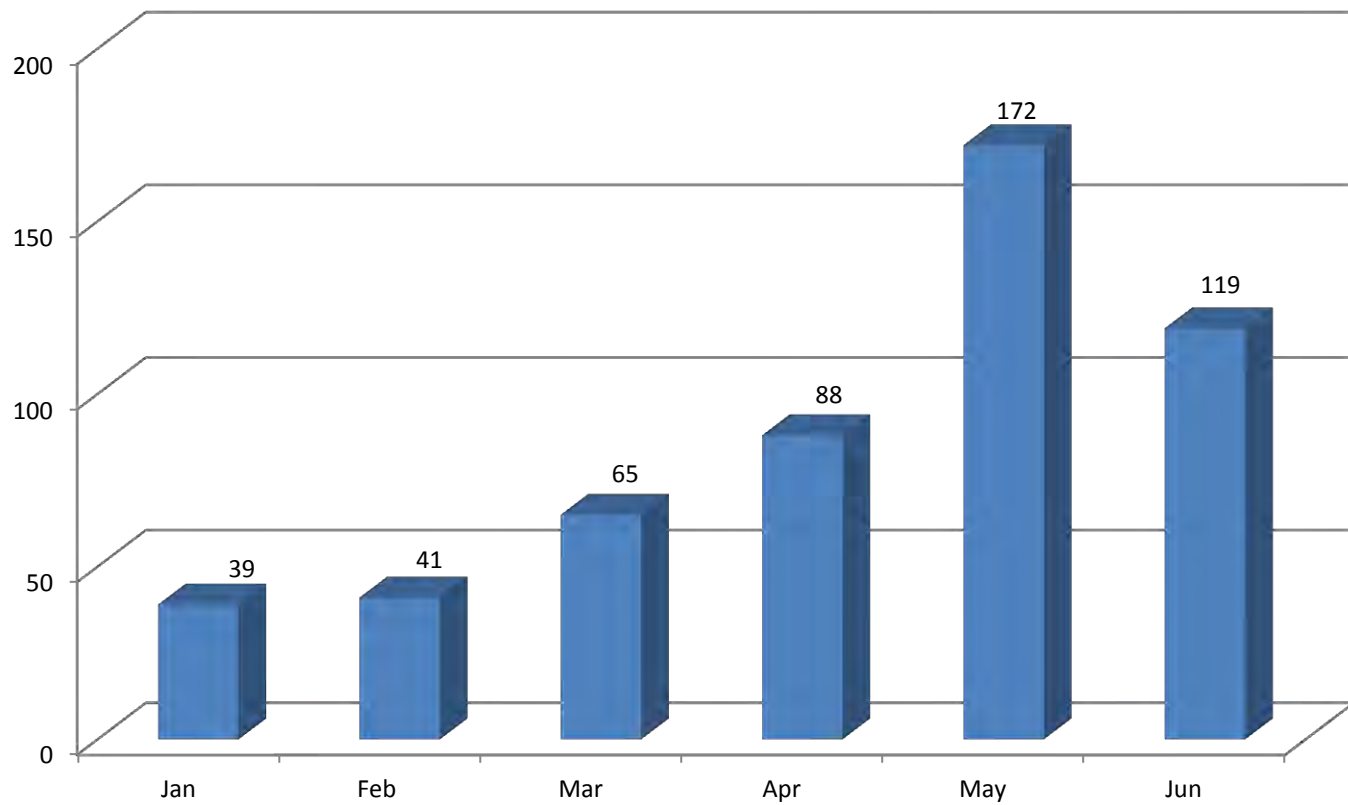
Meg Williamson diagnosed 416 samples.
Tim Drake diagnosed 103 samples.
Dixie Damrel diagnosed 52 samples.
Curt Colburn diagnosed 12 samples.
John Hains diagnosed 3 samples.
Julia Kerrigan diagnosed 2 samples.

Consultant Inputs

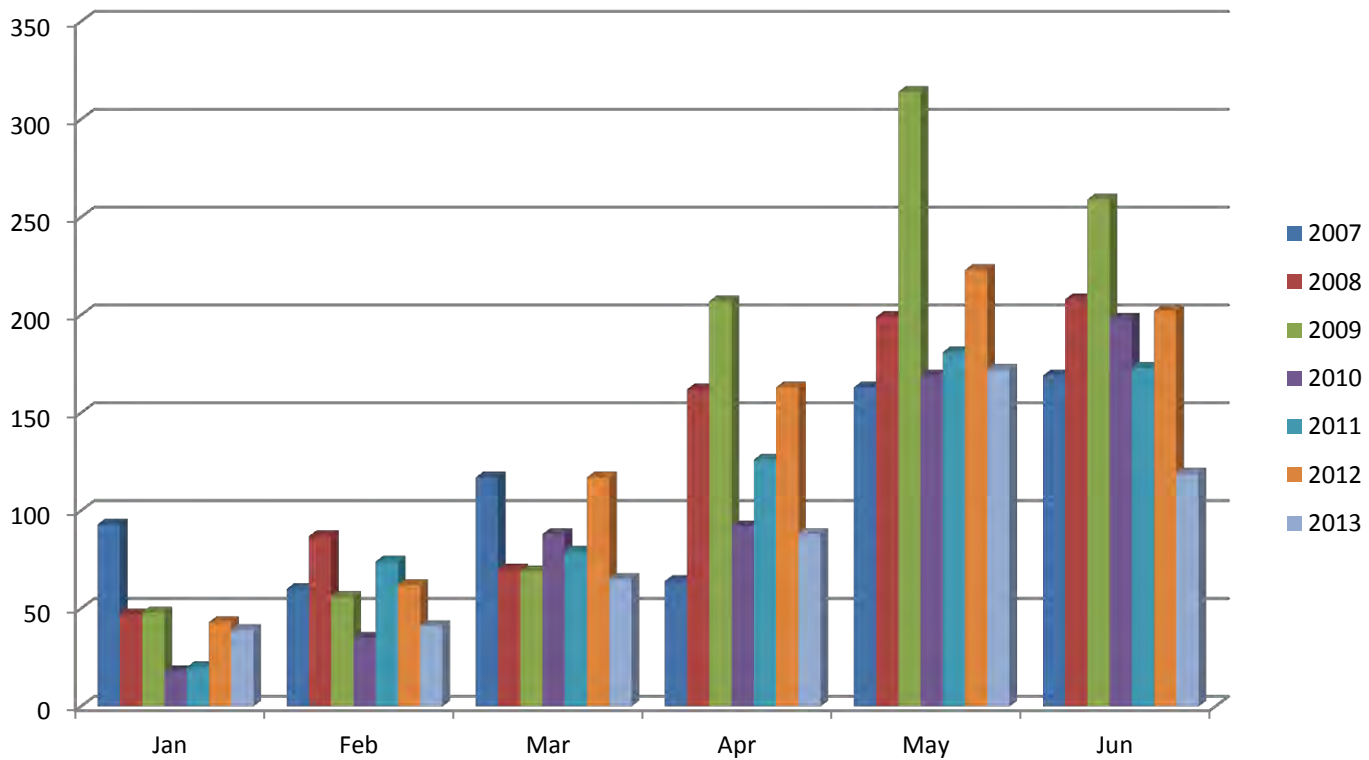
Advisory Consultants Providing Management
Recommendations for the Clinic in 2013

Eric Benson gave advice for 29 samples.
Corey Heaton gave advice for 22 samples.
Joey Williamson gave advice for 22 samples.
Bob Polomski gave advice for 15 samples.
Mike Marshall gave advice for 6 samples.
Sally Brock gave advice for 5 samples.
Juang-Horng 'JC' Chong gave advice for 4 samples.
Powell Smith gave advice for 3 samples.
Bruce Martin gave advice for 2 samples.
John Andrae gave advice for 2 samples.
John Rogers gave advice for 1 sample.

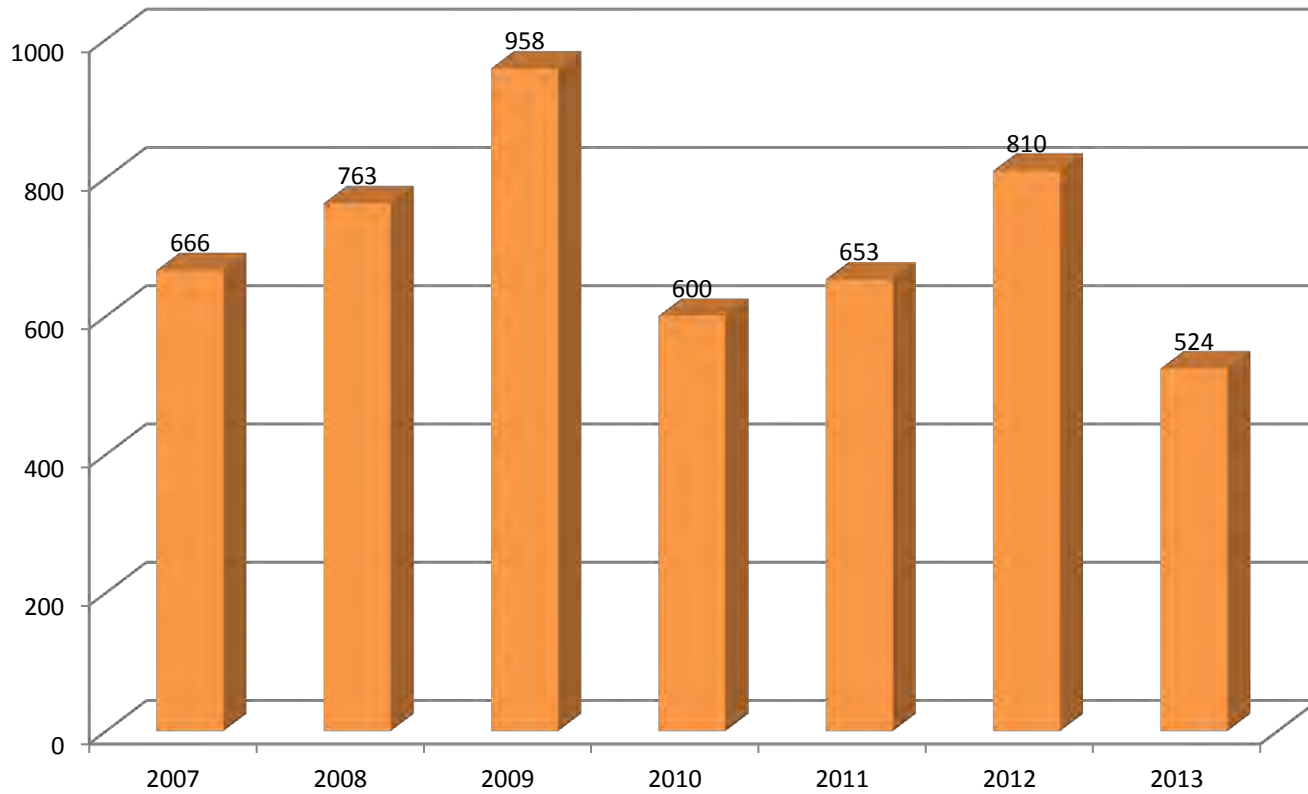
Plant Problem Clinic Monthly Sample Numbers for January - June of 2013



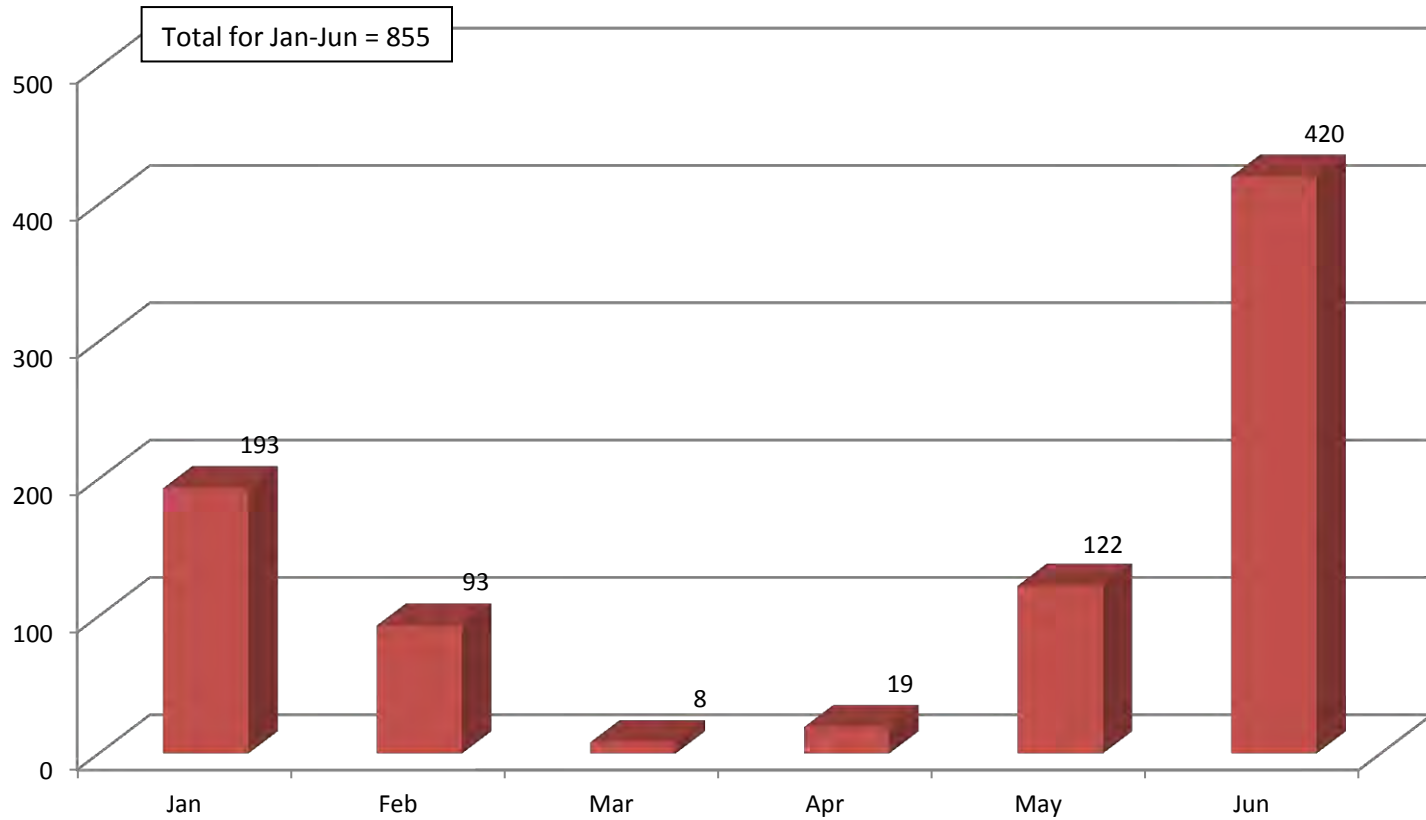
Plant Problem Clinic Monthly Sample Numbers for January - June of 2007 - 2013



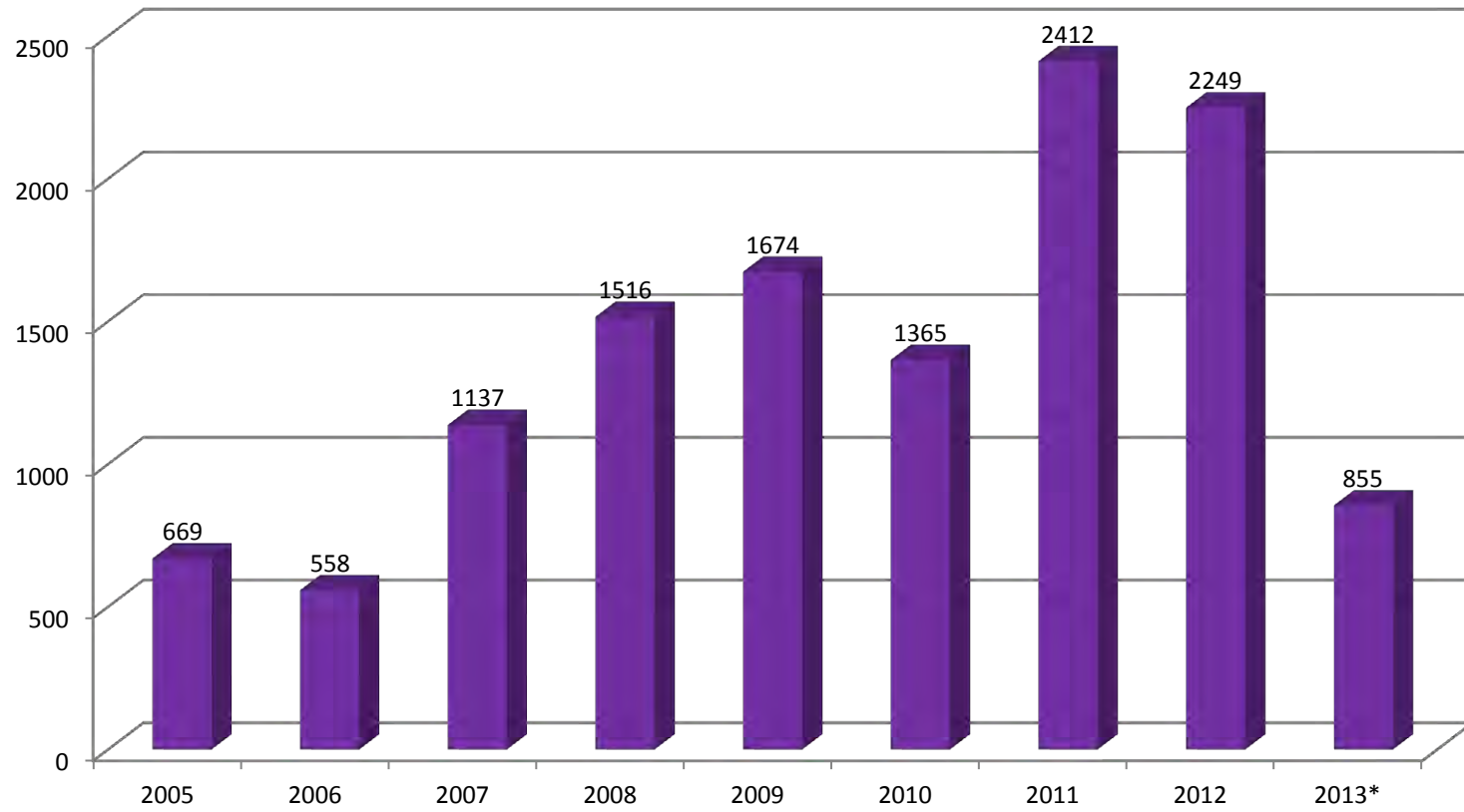
**Plant Problem Clinic Semi-Annual Sample Numbers 2007 - 2013
(January - June)**



Monthly Samples Recieved January - June of 2013 by the Clemson University Nematode Assay Lab

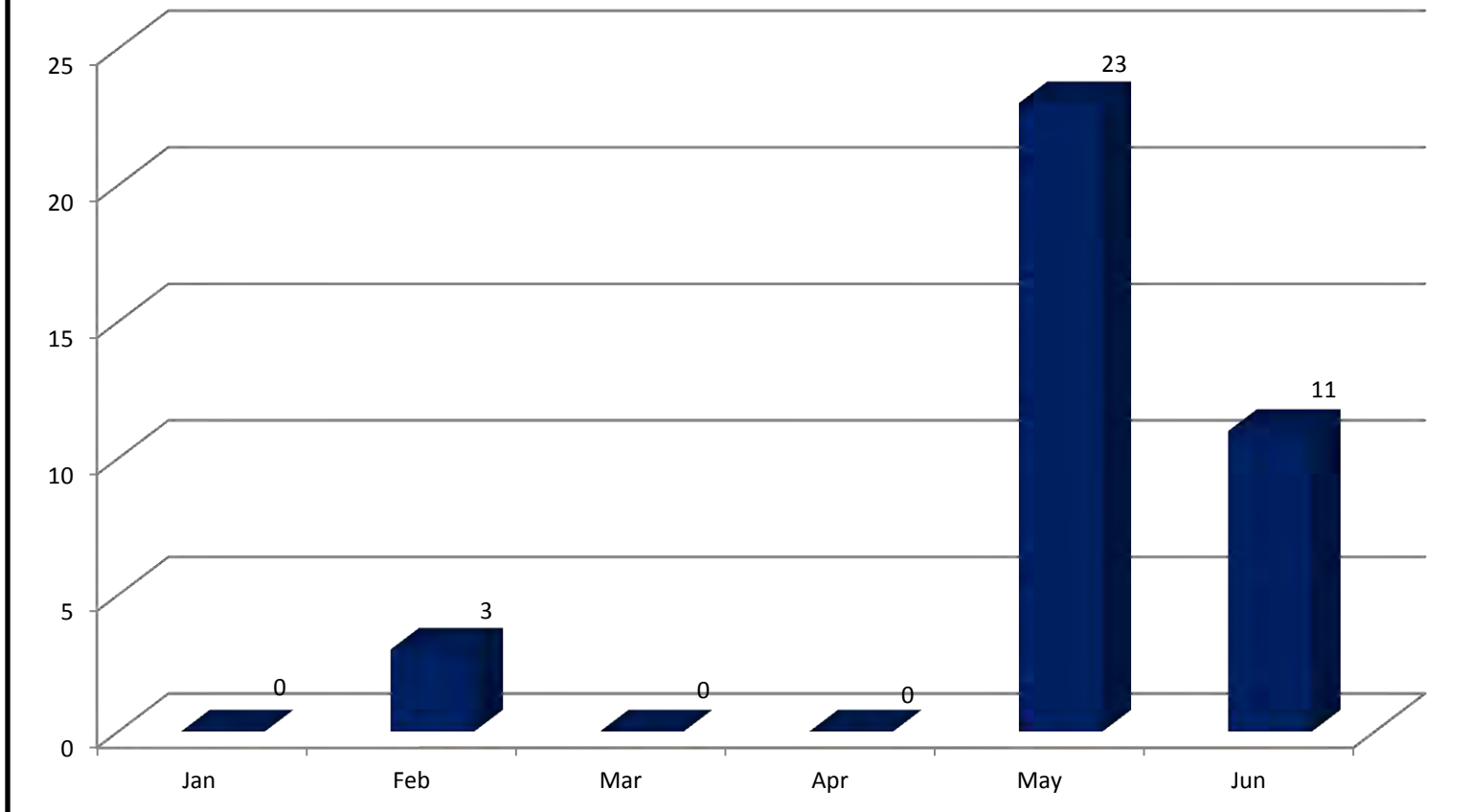


Samples Received by the Clemson University Nematode Assay Lab over the past 8 years

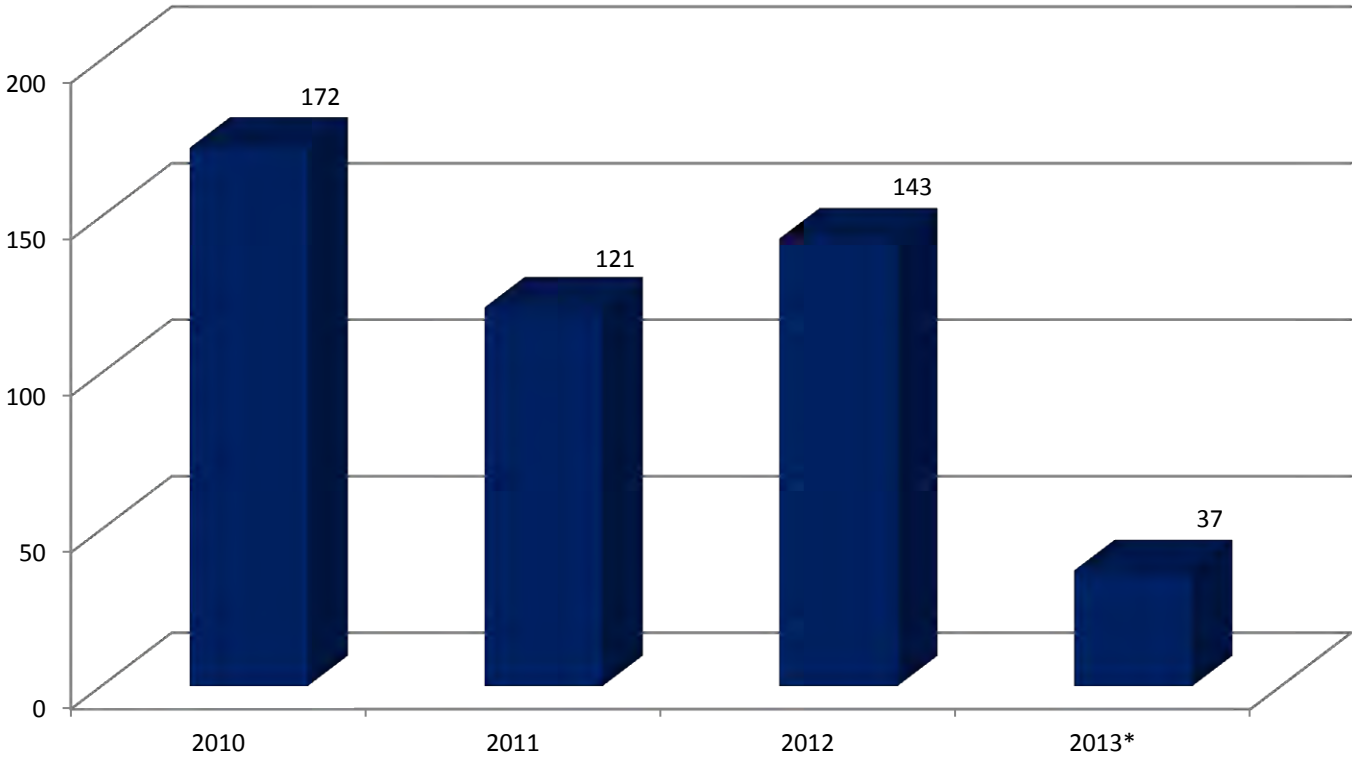


*2013 Sample numbers only through June

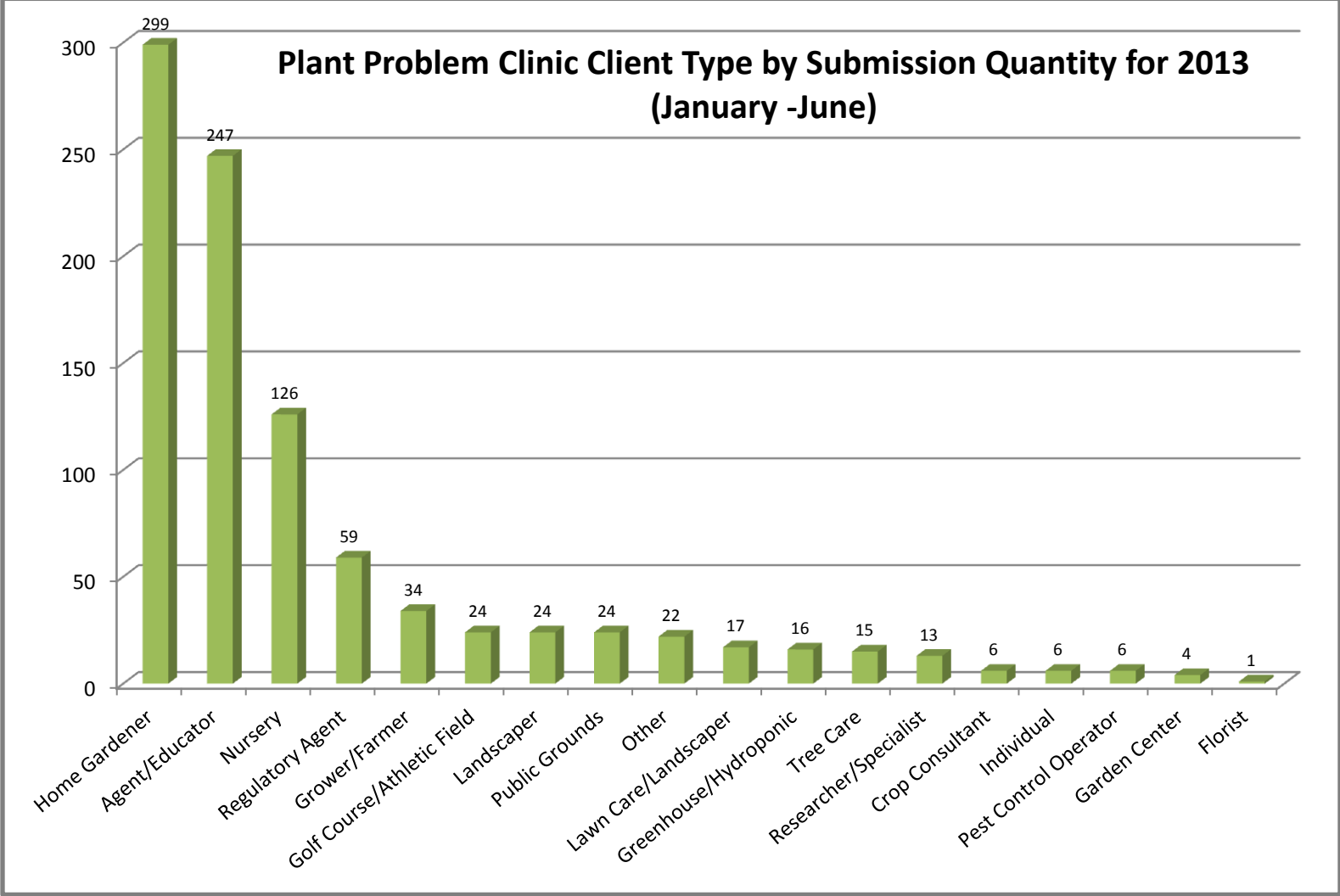
Monthly Samples Received January - June of 2013 by the Molecular Plant Pathogen Detection Lab



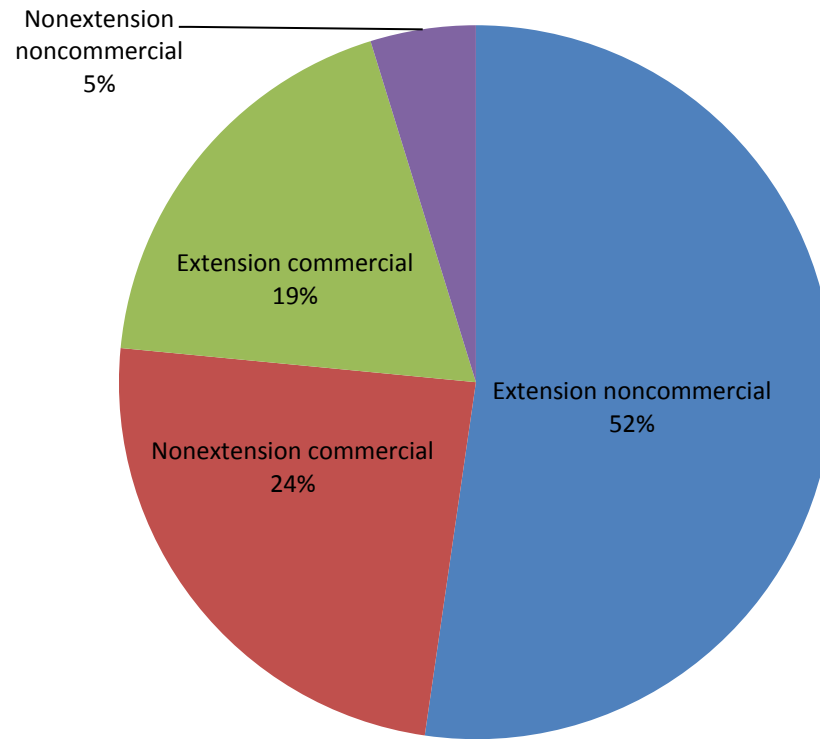
Samles Received by the Molecular Plant Pathogen Lab over the Past 4 Years



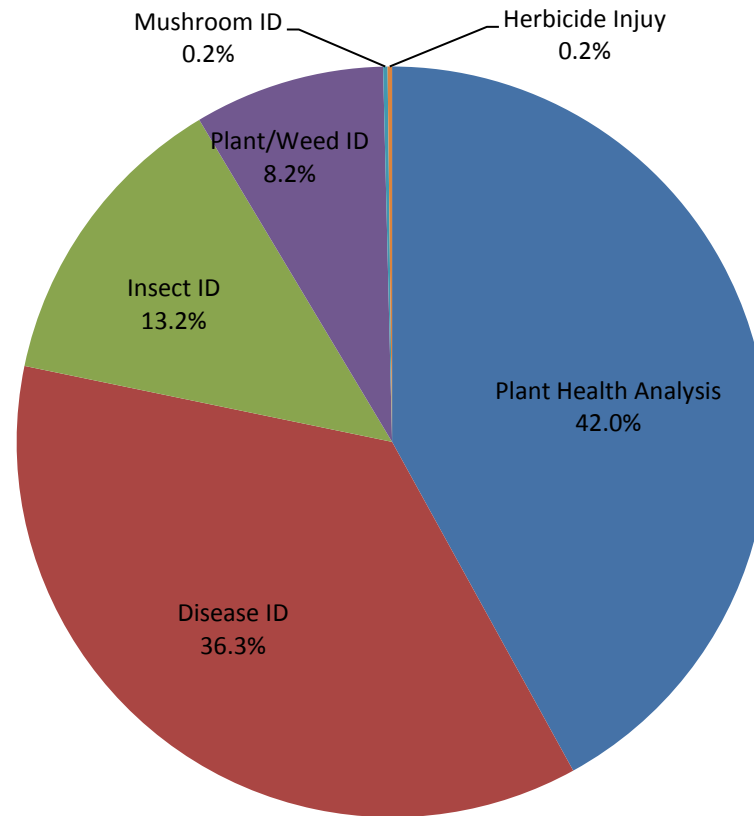
*2013 Sample numbers only through June



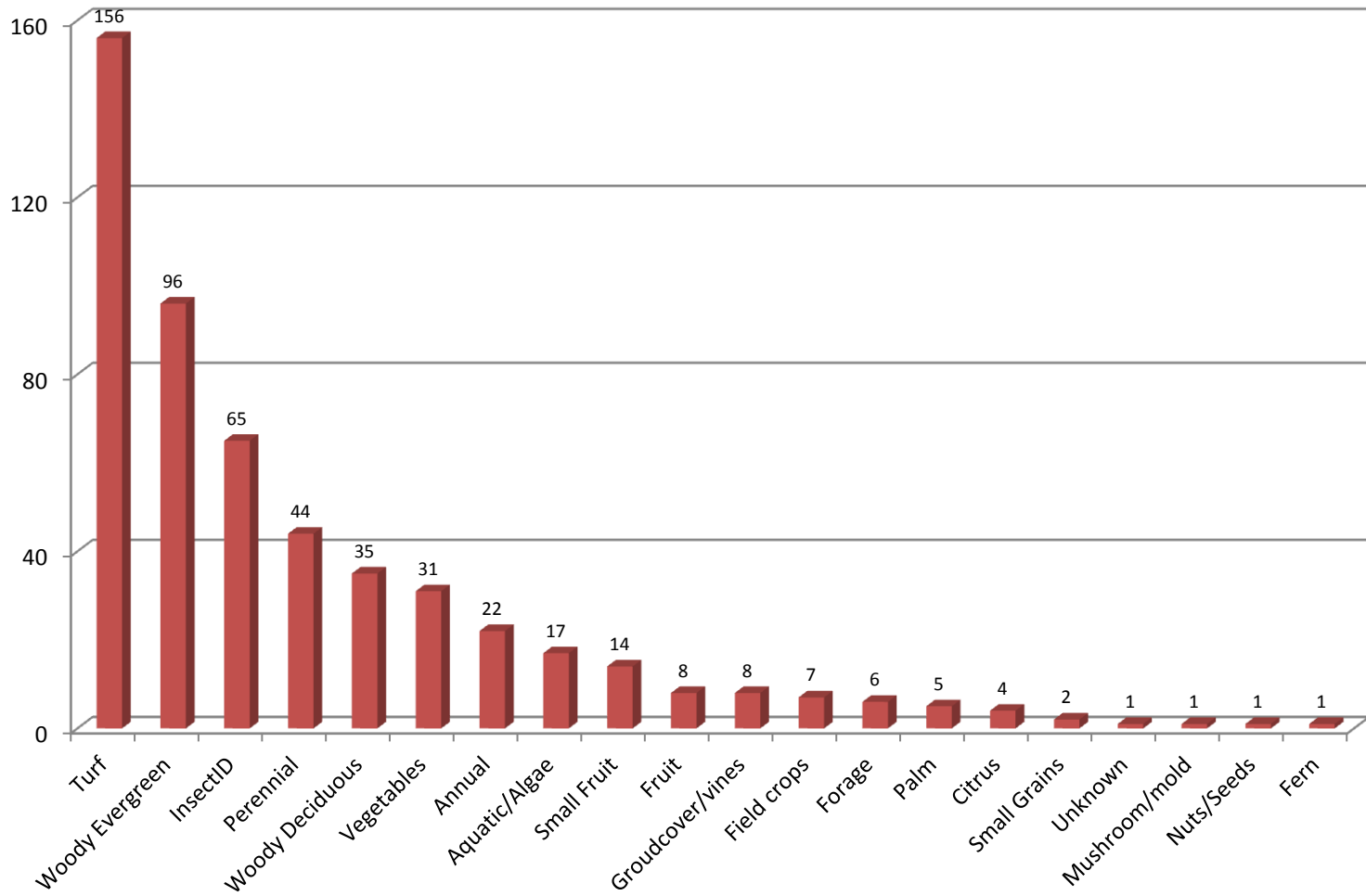
Plant Problem Clinic Samples by Submitter Type for 2013 (January-June)



**Diagnoses/Identifications Requested from the Plant Problem Clinic for 2013
(January-June)**



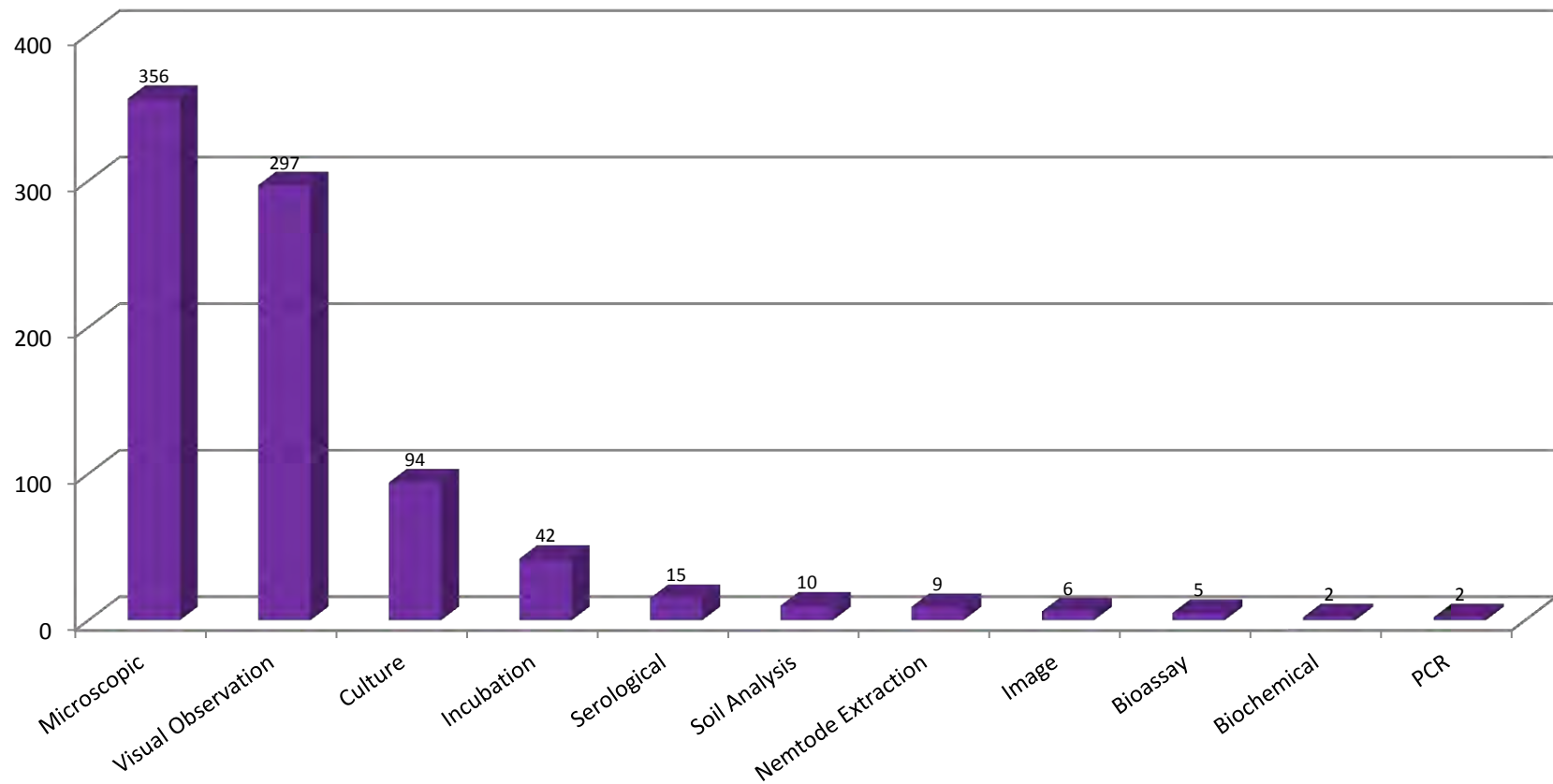
**Plant Problem Clinic Sample Categories by Number of Samples for 2013
(January-June)**



Number of Samples by State of Origin for 2013 (Jan-Jun)

South Carolina	507
North Carolina	8
Alabama	3
Georgia	2
Virginia	2
Florida	1
West Virginia	1
Total	524

Types of Methods used in the Plant Problem Clinic by Count for 2013 (January-June)*



*More than one method use for most samples

Diagnoses/Identifications on Ornamentals & Trees

	Confirmed	Not Detected	Suspected	Inconclusive
African Marigold (<i>Tagetes erecta</i>) 1				
Iron Toxicity (Abiotic disorder)	1	0	0	0
Alyssum (<i>Alyssum</i> spp.) 1				
Bacterial Leaf Spot (<i>Pseudomonas syringae</i>)	1	0	0	0
Angel's Trumpet (<i>Brugmansia versicolor</i>) 2				
Unidentified Virus (Unidentified Virus)	0	0	2	0
Aralia, Japanese (<i>Fatsia japonica</i>) 3				
Sooty Mold (Unidentified Fungus)	0	0	0	2
Whiteflies (Family Aleyrodidae)	0	0	0	1
Asiatic Jasmine (<i>Trachelospermum asiaticum</i>) 1				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Avens (<i>Geum</i> sp./spp.) 3				
Downy Mildew (<i>Peronospora</i> sp./spp.)	0	0	1	0
Twospotted Spider Mite (<i>Tetranychus urticae</i>)	1	0	0	0
Western Flower Thrips (<i>Frankliniella occidentalis</i>)	1	0	0	0
Azalea (<i>Rhododendron</i> sp./spp.) 8				
Cultural/Environmental Problem (Abiotic disorder)	1	0	3	0
Leaf Spot (Unknown cause)	1	0	0	0
Leaf and Flower Gall (<i>Exobasidium azaleae</i>)	1	0	0	0
Nutrient Imbalance (Abiotic disorder)	1	0	0	0
Oedema; Edema (Abiotic disorder)	1	0	0	0
Phomopsis Dieback; Tip Blight; Canker (<i>Phomopsis</i> sp./spp.)	0	0	1	0
Spider Mites (Family Tetranychidae)	0	0	0	1
Blue Star Creeper (<i>Laurentia fluviatilis</i>) 1				
Impatiens Necrotic Spot (Impatiens Necrotic Spot Virus (INSV))	1	0	0	0
Bluemink (<i>Ageratum houstonianum</i>) 1				
Cultural/Environmental Problem (Abiotic disorder)	1	0	0	0
Bottlebrush (<i>Callistmon</i> sp./spp.) 1				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0

	Confirmed	Not Detected	Suspected	Inconclusive
Boxwood (Buxus sp./spp.) 7				
Common Boxwood (Buxus sempervirens)	1	0	0	0
Cultural/Environmental Problem (Abiotic disorder)	0	0	4	0
No Pathogen Found (Identification Analysis)	0	0	0	1
Root Problems (Abiotic disorder)	1	0	0	0
Boxwood, Common (Buxus sempervirens) 5				
Boxwood Leafminer (Monarthropalpus flavus (buxi))	1	0	0	0
Boxwood Mite (Eurytetranychus buxi)	0	0	1	0
Cottony Cushion Scale (Icerya purchasi)	1	0	0	0
Leaf Blight (Volutella buxi)	1	0	0	0
Macrophoma Blight; Dieback (Macrophoma sp./spp.)	1	0	0	0
Boxwood, Edging (Buxus sempervirens) 4				
Boxwood Mite (Eurytetranychus buxi)	2	0	0	0
Cultural/Environmental Problem (Abiotic disorder)	1	0	0	0
Lichens (Lichenes)	0	0	0	1
Boxwood, Japanese (Buxus microphylla) 1				
No Pathogen Found (Identification Analysis)	0	0	0	1
Bushy Wallflower (Erysimum repandum) 1				
Bacterial Blight (Unidentified Bacteria]	0	0	0	1
Camellia (Camellia sp./spp.) 3				
Purple Camellia Mite (Calacarus carinatus)	1	0	0	0
Scorch (Abiotic disorder)	0	0	1	0
yellow camellia rust mite (Acaphylla steinvedeni)	1	0	0	0
Camellia, Common (Camellia japonica) 9				
Camellia Yellow Mottle (Camellia Yellow Mottle Virus)	0	0	1	0
Cultural/Environmental Problem (Abiotic disorder)	1	0	1	0
Insufficient Sample (Identification Analysis)	0	0	0	1
Orange Camellia Rust Mite (Acaphylla steinwedeni)	1	0	0	0
Purple Camellia Mite (Calacarus carinatus)	1	0	0	0
Scorch (Abiotic disorder)	1	0	0	0
Tea Scale (Fiorinia theae)	1	0	0	0

	Confirmed	Not Detected	Suspected	Inconclusive
Unidentified Virus (Unidentified Virus)	0	0	0	1
Camellia, Sasanqua (Camellia sasanqua) 5				
Algal Leaf Spot (Cephaleuros virescens)	1	0	0	0
Colletotrichum Dieback (Glomerella (Colletotrichum) cingulata (gloeosporioides))	0	0	1	0
Dieback; Canker; Twig Blight (Botryosphaeria sp./spp.)	1	0	0	0
Tea Scale (Fiorinia theae)	2	0	0	0
Candytuff (Iberis sempervirens) 1				
Bacterial Blight (Unidentified Bacteria)	0	0	0	1
Cedar, Deodar (Cedrus deodara) 2				
Cultural/Environmental Problem (Abiotic disorder)	0	0	2	0
Cedar, Eastern Red (Juniperus virginiana) 1				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Cedar, Japanese (Cryptomeria japonica) 3				
Cryptomeria Scale (Aspidiotus cryptomeriae)	1	0	0	0
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Phomopsis Dieback; Tip Blight; Canker (Phomopsis sp./spp.)	1	0	0	0
Chrysanthemum (Chrysanthemum sp./spp.) 1				
Slime Mold (Class Mxomycetes; Myxomycota)	0	0	0	1
Clematis (Clematis sp./spp.) 8				
Black Root Rot (Thielaviopsis (Chalara) basicola (elegans))	4	0	0	0
Botrytis Blight (Botrytis sp./spp.)	1	0	0	0
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
No Pathogen Found (Identification Analysis)	0	1	0	0
Root Problems (Abiotic disorder)	1	0	0	0
Coneflower (Echinacea sp./spp.) 1				
Leaf Spot (Abiotic disorder)	0	0	1	0
Coneflower, Orange (Rudbeckia fulgida) 1				
Chemical; Environmental Injury (Abiotic disorder)	0	0	1	0
Confederate jasmine (Trachelospermum Jasminoide) 1				
Mealybug (Planococcus sp./spp.)	1	0	0	0

	Confirmed	Not Detected	Suspected	Inconclusive
Crabapple (Malus sp./spp.) 1				
Woolly Apple Aphid (<i>Eriosoma lanigerum</i>)	0	0	1	0
Cypress, Italian (Cupressus sempervirens) 2				
Seiridium Canker (<i>Lepteutypa</i> (<i>Seiridium</i>) <i>cupressi</i> (<i>unicorne</i>))	1	0	0	0
Stem Rot; Dieback; Canker (<i>Botryodiplodia</i> sp./spp.)	1	0	0	0
Cypress, Leyland (X cupressocyparis leylandii) 8				
Cultural/Environmental Problem (Abiotic disorder)	0	0	4	0
Pestalotiopsis Needle Blight; Tip Blight (<i>Pestalotiopsis</i> sp./spp.)	2	0	0	0
Seiridium Canker (<i>Lepteutypa</i> (<i>Seiridium</i>) <i>cupressi</i> (<i>unicorne</i>))	2	0	0	0
Daisy, Shasta (Leucanthemum x superbum) 1				
Nutritional Deficiency (Abiotic disorder)	0	0	1	0
Daylily (Hemerocallis sp./spp.) 2				
Daylily Leaf Streak (<i>Collecephalus hemerocallidis</i>)	1	0	0	0
Root Problems (Abiotic disorder)	0	0	1	0
Dogwood (Cornus sp./spp.) 2				
Brown Felt (<i>Septobasidium</i> sp./spp.)	0	0	1	0
Obscure Scale (<i>Melanaspis obscura</i>)	1	0	0	0
Dogwood, Flowering (Cornus florida) 5				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Dieback; Canker; Twig Blight (<i>Botryosphaeria</i> sp./spp.)	1	0	0	0
Phyllosticta Leaf Spot (<i>Phyllosticta</i> sp./spp.)	1	0	0	0
Phytophthora Root and Crown Rot (<i>Phytophthora cinnamomi</i>)	1	0	0	0
Spot Anthracnose (<i>Elsinoe corni</i>)	1	0	0	0
Dragonhead, False (Physostegia virginiana) 2				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Impatiens Necrotic Spot (Impatiens Necrotic Spot Virus (INSV))	1	0	0	0
Distylium, Myrtle-leaved (Distylium myricoides) 1				
Bacterial Canker (<i>Pseudomonas syringae</i>)	1	0	0	0
Eucalyptus (Eucalyptus sp./spp.) 1				
Eucalyptus leaf beetle (<i>Paropsisterna m-fuscum</i>)	1	0	0	0

	Confirmed	Not Detected	Suspected	Inconclusive
Fern, Staghorn (<i>Platycerium sp./spp.</i>) 1				
Cercospora Leaf Spot (<i>Cercospora sp./spp.</i>)	1	0	0	0
Fringe flower, Chinese (<i>Lorapetalum chinense</i>) 4				
Copper Deficiency (Abiotic disorder)	0	0	1	0
Cultural/Environmental Problem (Abiotic disorder)	0	0	2	0
Nutritional Deficiency (Abiotic disorder)	0	0	1	0
Fringetree, Chinese (<i>Chionanthus retusus</i>) 1				
Dieback; Canker; Twig Blight (<i>Botryosphaeria sp./spp.</i>)	1	0	0	0
Gardenia (<i>Gardenia sp./spp. hybrids</i>) 3				
Anthracnose; Colletotrichum Leaf Spot (<i>Colletotrichum sp./spp.</i>)	1	0	0	0
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Whiteflies (Family Aleyrodidae)	0	0	0	1
Gardenia, Common (<i>Gardenia jasminoides</i>) 2				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Nutrient Imbalance (Abiotic disorder)	1	0	0	0
Geranium, House (<i>Pelargonium x hortorum</i>) 6				
Botrytis Blight (<i>Botrytis sp./spp.</i>)	1	0	0	0
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Iron Toxicity (Abiotic disorder)	1	0	0	0
Oedema; Edema (Abiotic disorder)	2	0	0	0
Twospotted Spider Mite (<i>Tetranychus urticae</i>)	1	0	0	0
Hackberry (<i>Celtis sp./spp.</i>) 3				
Herbicide Drift (Abiotic disorder)	0	0	1	0
Wood Decay Fungus (Unidentified Fungus)	0	0	0	1
Wood cockroach (<i>Parcoblatta sp.</i>)	1	0	0	0
Hemlock, Eastern (<i>Tsuga canadensis</i>) 1				
Elongate Hemlock Scale (<i>Fiorinia externa</i>)	1	0	0	0
Heuchera (<i>Heuchera sp./spp.</i>) 1				
Freeze; Frost; Cold Damage (Abiotic disorder)	0	0	1	0

	Confirmed	Not Detected	Suspected	Inconclusive
Hibiscus (Hibiscus sp./spp.) 4				
Bacterial Leaf Spot (<i>Pseudomonas syringae</i>)	2	0	0	0
Bacterial Leaf Spot (<i>Xanthomonas campestris</i>)	2	0	0	0
Holly, East Palatka (Ilex x attenuate) 2				
Dieback; Canker; Twig Blight (<i>Botryosphaeria</i> sp./spp.)	1	0	0	0
Greedy Scale (<i>Hemiberlesia rapax</i>)	1	0	0	0
Holly, Japanese (Ilex crenata) 4				
Black Root Rot (<i>Thielaviopsis</i> (<i>Chalara</i>) <i>basicola</i> (<i>elegans</i>))	1	0	0	0
Boxwood Mite (<i>Eurytetranychus buxi</i>)	1	0	0	0
Peony Scale (<i>Pseudaonidia paeoniae</i>)	1	0	0	0
Transplant Shock; Stress (Abiotic disorder)	0	0	1	0
Hydrangea, Bigleaf (Hydrangea macrophylla) 1				
Fusarium Leaf Spot (<i>Fusarium</i> sp./spp.)	1	0	0	0
Impatiens (Impatiens walleriana) 1				
No Pathogen Found (Identification)	0	0	0	1
Impatiens (Impatiens balsamina) 1				
Insufficient Sample (Identification Analysis)	0	0	0	1
Impatiens, New Guinea (Impatiens hawkeri) 3				
Cultural/Environmental Problem (Abiotic disorder)	0	0	3	0
Indian Hawthorne (Raphiolepis indica) 8				
Greedy Scale (<i>Hemiberlesia rapax</i>)	1	0	0	0
Leaf Spot (<i>Diplocarpon</i> (<i>Entomosporium</i>) <i>mespili</i> (<i>maculata</i>))	3	0	0	0
Planting Too Deep (Abiotic disorder)	1	0	0	0
Scale Insects (Order homoptera)	0	0	0	1
Twospotted Spider Mite (<i>Tetranychus urticae</i>)	1	0	0	0
Leaf Spot (<i>Diplocarpon</i> (<i>Entomosporium</i>) <i>mespili</i> (<i>maculata</i>))	1	0	0	0
Ivy, English (Hedera helix) 1				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Juniper (Juniperus sp./spp.) 1				
Cultural/Environmental Problem (Abiotic disorder)	1	0	0	0

	Confirmed	Not Detected	Suspected	Inconclusive
Juniper, Rocky Mtn (<i>Juniperus scopulorum</i>) 1				
Rust (<i>Gymnosporangium</i> sp./spp.)	0	0	1	0
Juniper, Shore (<i>Juniperus conferta</i>) 3				
No Pathogen Found (Identification Analysis)	0	0	0	1
Pestalotiopsis Needle Blight; Tip Blight (<i>Pestalotiopsis</i> sp./spp.)	1	0	0	0
Stem Rot; Dieback; Canker (<i>Botryodiplodia</i> sp./spp.)	1	0	0	0
Lantana (<i>Lantana camara</i>) 1				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Laurel, Cherry (<i>Prunus caroliniana</i>) 1				
Witches Broom; Leaf Blister; Leaf Curl (<i>Taphrina cerasi</i>)	1	0	0	0
Laurel, Mountain (<i>Kalmia latifolia</i>) 1				
Phytophthora Leaf Spot (<i>Phytophthora</i> sp./spp.)	1	0	0	0
Laurustinus (<i>Viburnum tinus</i>) 1				
Phytophthora Root and Crown Rot (<i>Phytophthora cinnamomi</i>)	1	0	0	0
Ligustrum; Privet (<i>Ligustrum</i> sp./spp.) 8				
Glyphosate Injury (Abiotic disorder)	0	0	1	0
Leaf Spot (<i>Pseudocercospora</i> sp./spp.)	3	0	0	0
No Pathogen Found (Identification Analysis)	0	0	0	1
Nutrient Imbalance (Abiotic disorder)	0	0	2	0
Oedema; Edema (Abiotic disorder)	1	0	0	0
Lily, Canna (<i>Canna x generalis</i>) 3				
Canna Yellow Mottle (Canna Yellow Mottle Virus (CAYMV))	0	0	2	0
Lesser Canna Leafroller (<i>Geshna cannalis</i>)	0	0	1	0
Lily Turf (<i>Liriope muscari</i>) 5				
Anthracnose; Colletotrichum Leaf Spot (<i>Colletotrichum</i> sp./spp.)	2	0	0	0
Crown Rot (<i>Rhizoctonia</i> sp./spp.)	1	0	0	0
Rhizoctonia Crown and Stem Rot (<i>Rhizoctonia</i> sp./spp.)	2	0	0	0
Lilyturf; bordergrass (<i>Liriope</i> sp./spp.) 6				
Anthracnose Basal Rot; Crown Rot (<i>Colletotrichum</i> sp./spp.)	1	0	0	0
Anthracnose; Colletotrichum Leaf Spot (<i>Colletotrichum</i> sp./spp.)	1	0	0	0
Fusarium Basal Rot (<i>Fusarium</i> sp./spp.)	1	0	0	0

	Confirmed	Not Detected	Suspected	Inconclusive
Fusarium Root Rot (Fusarium sp./spp.)	1	0	0	0
Fusarium Root; Crown Rot (Fusarium sp./spp.)	2	0	0	0
Magnolia, Southern (Magnolia grandiflora) 10				
Algal Leaf Spot (Cephaleuros virescens)	1	0	0	0
Boron Toxicity (Abiotic disorder)	0	0	1	0
Citrus Red Mite (Panonychus citri)	1	0	0	0
Cultural/Environmental Problem (Abiotic disorder)	0	0	2	0
False Oleander Scale (Pseudaulacaspis cockerelli)	1	0	0	0
Root Problems (Abiotic disorder)	0	0	1	0
Septoria Leaf Spot (Septoria sp./spp.)	1	0	0	0
Sporodesmium sp./spp.	1	0	1	0
Wax Scale (Ceroplastes sp./spp.)	1	0	0	0
Magnolia, Sweet Bay (Magnolia virginiana) 2				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Lichenized Algal Leaf Spot (Strigula sp./spp.)	0	0	1	0
Maple, Japanese (Acer Palmatum) 3				
Canker: Dieback; Leaf Blight (Fusicoccum sp./spp.)	1	0	0	0
Phomopsis Dieback; Tip Blight; Canker (Phomopsis sp./spp.)	1	0	0	0
Phytophthora Root and Crown Rot (Phytophthora cinnamomi)	1	0	0	0
Maple, Red (Acer rubrum) 2				
No Specified Pathology (Fusarium sp./spp.)	1	0	0	0
Obscure Scale (Melanaspis obscura)	1	0	0	0
Million Bells (Calibrachoa sp./spp.) 1				
Black Root Rot (Thielaviopsis (Chalara) basicola (elegans))	1	0	0	0
Mondgrass (Ophiopogon japonicas) 7				
Anthraxnose; Colletotrichum Leaf Spot (Colletotrichum sp./spp.)	3	0	0	0
Crown Rot (Rhizoctonia sp./spp.)	1	0	0	0
Fern Scale (Pinnaspis aspidistrae)	1	0	0	0
Fusarium Crown Rot (Fusarium sp./spp.)	1	0	0	0
Rhizoctonia Crown and Stem Rot (Rhizoctonia sp./spp.)	0	0	1	0
Money plant (Lunaria annua) 1				
Unidentified Virus (Unidentified Virus)	0	0	0	1

	Confirmed	Not Detected	Suspected	Inconclusive
Morningglory (Ipomoea sp./spp.) 1				
Unidentified Virus (Unidentified Virus)	0	0	0	1
Moss, Phlox (pink phlox)(Phlox subulata) 1				
Tomato Spotted Wilt (Tomato Spotted Wilt Virus (TSWV))	1	0	0	0
Nicotiana (Nicotiana sp./spp.) 1				
Pythium Root and/or Crown Rot (Pythium sp./spp.)	1	0	0	0
Oak, Laurel (Quercus laurifolia) 3				
Discula Anthracnose (Discula sp./spp.)	0	0	1	0
Oak Leaf Blister (Taphrina caerulescens) [1]	1	0	0	0
Pine Oak Gall Rust (Cronartium quercuum)	1	0	0	0
Oak, Live (Quercus virginiana) 4				
Cylindrosporium Leaf Spot (Cylindrosporium sp./spp.)	1	0	0	0
Oak Lecanium (Parthenolecanium quercifex)	1	0	0	0
Pine Oak Gall Rust (Cronartium quercuum)	1	0	0	0
oak gall (Family Cynipidae)	0	0	0	1
Oak, White (Quercus alba) 1				
Environmental Stress; Problem (Abiotic disorder)	0	0	1	0
Oak, Willow (Quercus phellos) 7				
Actinopelte Leaf Spot (Actinopelte dryina)	1	0	0	0
Environmental Stress; Problem (Abiotic disorder)	0	0	1	0
Nutrient Imbalance (Abiotic disorder)	0	0	1	0
Oak Twig Blight (Coryneum kunzei)	1	0	0	0
Obscure Scale (Melanaspis obscura)	1	0	0	0
Pine Oak Gall Rust (Cronartium quercuum)	1	0	0	0
True Bugs (Order hemiptera)	0	0	0	1
Oleander (Nerium oleander) 1				
Bacterial Leaf Scorch (BLS) (Xylella fastidiosa (BLS))	0	0	1	0
Pachysandra (Pachysandrasp./spp.) 3				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Leaf and Stem Blight (Volutella pachysandrae)	1	0	0	0
Oystershell Scale (Lepidosaphes ulmi)	1	0	0	0

	Confirmed	Not Detected	Suspected	Inconclusive
Palm (Family arecaceae) 3				
Anthracnose; Colletotrichum Leaf Spot (Colletotrichum sp./spp.)	1	0	0	0
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Palmetto Scale (Comstockiella sabalis)	1	0	0	0
Palm, Pindo (Butia capitata) 1				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Palm, Sago (Cycas revolute) 4				
False Oleander Scale (Pseudaulacaspis cockerelli)	1	0	0	0
No Pathogen Found (Identification Analysis)	0	1	0	0
Nutrient Imbalance (Abiotic disorder)	0	0	1	0
Nutritional Deficiency (Abiotic disorder)	0	0	1	0
Pansy (Viola wittrockiana) 10				
Aphids (Plant Lice) (Family Aphididae)	0	0	0	1
Black Root Rot (Thielaviopsis (Chalara) basicola (elegans))	3	0	0	0
Botrytis Blight (Botrytis sp./spp.)	3	0	0	
Mechanical Damage (Abiotic disorder)	1	0	0	0
Phytophthora Canker; Dieback (Phytophthora cactorum)	1	0	0	0
Rhizoctonia Stem Rot (Rhizoctonia sp./spp.)	1	0	0	0
Periwinkle, lesser (Vinca minor) 2				
Cultural/Environmental Problem (Abiotic disorder)	1	0	0	0
Leaf Spot (Unidentified Fungus)	0	0	0	1
Pine (Pinus sp./spp.) 1				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Pittosporum, Japanese (Pittosporum tobira) 1				
Alternaria Leaf Spot (Alternaria tenuissima)	1	0	0	0
Rhododendron hybrids 2				
Botrytis Blight (Botrytis sp./spp.)	1	0	0	0
Freeze; Frost; Cold Damage (Abiotic disorder)	0	0	1	0
Rhododendron, Rosebay (Rhododendron maximum) 2				
Leaf Spot (Pseudocercospora sp./spp.)	1	0	0	0
Powdery Mildew (Microsphaera sp./spp.)	0	0	1	0

	Confirmed	Not Detected	Suspected	Inconclusive
Rose (Rosa sp./spp.) 13				
Botrytis Blight (Botrytis sp./spp.)	1	0	0	0
Bristly Roseslug (Cladius difformis)	0	0	1	0
Glyphosate Injury (Abiotic disorder)	0	0	1	0
Herbicide Carryover (Abiotic disorder)	0	0	1	0
Insufficient Sample (Identification Analysis)	0	0	0	1
No Pathogen Found (Identification Analysis)	0	1	0	0
Not Pathogen; Saprophyte (Secondary Agents; Saprophytes; Unspecif.)	0	0	0	1
Rose Rosette Disease (Rose rosette-associated virus (RRaV))	1	1	1	0
Twospotted Spider Mite (Tetranychus urticae)	0	0	1	0
Unspecified Pathology (Botrytis sp./spp.)	1	0	0	0
Sage, Scarlet (Salvia splendens) 1				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Sage, Salvia (Salvia sp./spp.) 1				
Botrytis Blight (Botrytis sp./spp.)	1	0	0	0
Snapdragon (Antirrhinum sp./spp.) 1				
Dieback/ Stem Rot (Sclerotinia)	1	0	0	0
Speedwell, Longleaf (Veronica longifolia) 2				
Downy Mildew (Peronospora grisea)	1	0	0	0
Downy Mildew (Peronospora grisea)	1	0	0	0
Speedwell, Spiked (Veronica spicata) 1				
Basal Shoot Proliferation (Rhodococcus fascians)	0	0	1	0
Spruce, Norway (Picea abies) 2				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Mite Damage (Unidentified Mite)	0	0	0	1
Spurge, Japanese (Pachysandra terminalis) 2				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Leaf and Stem Blight (Volutella pachysandrae)	1	0	0	0
Sweet (tea) olive (Osmanthus fragans) 2				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Twig Blight (Coryneum japonicum)	1	0	0	0
Verbena, Garden (Verbena glandularia) 1				
Leaf Spot (Unidentified Fungus)	1	0	0	0

	Confirmed	Not Detected	Suspected	Inconclusive
Viburnum, Japanese (Viburnum japonica) 1				
Herbicide Injury; Exposure (Abiotic disorder)	1	0	0	0
Viburnum, Sandankwa (Viburnum suspensum) 1				
Seasonal Leaf Drop (Abiotic disorder)	0	0	1	0
Violas (Viola sp./spp.) 2				
Leaf /Stem/Twig Blight; Rot; Gray Mold (Botryotinia (Botrytis) fuckeliana (cinerea))	1	0	0	0
Pesticide Toxicity (Abiotic disorder)	0	0	1	0
Willow (Salix sp./spp.) 2				
Cytospora Canker; Dieback (Cytospora sp./spp.)	1	0	0	0
Fungal Canker (Various Fungi)	0	0	1	0
Yew, Japanese (Podocarpus sp./spp.) 3				
Cultural/Environmental Problem (Abiotic disorder)	1	0	1	0
Phomopsis Dieback; Tip Blight; Canker (Phomopsis sp./spp.)	0	0	1	0

Diagnoses/Identifications on Turf

	Confirmed	Not Detected	Suspected	Inconclusive
Bentgrass (<i>Agrostis</i> sp./spp.) 6				
Cultural/Environmental Problem (Abiotic disorder)	0	0	4	0
No Pathogen Found (Identification Analysis)	0	2	0	0
Bentgrass, Creeping (<i>Agrostis stolonifera</i>) 1				
Dollar Spot (<i>Sclerotinia homeocarpa</i>)	1	0	0	0
Bermudagrass (<i>Cynodon dactylon</i>) 27				
Chemical; Environmental Injury (Abiotic disorder)	0	0	1	0
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Dense Thatch Layer (Abiotic disorder)	1	0	0	0
Dollar Spot (<i>Sclerotinia homeocarpa</i>)	1	0	0	0
Fairy Ring (Various Fungi)	0	0	0	1
Indianhemp; Hemp Dogbane (<i>Apocynum cannabinum</i>)	1	0	0	0
Insufficient Sample (Identification Analysis)	0	0	0	0
Leaf Rust; rust (<i>Puccinia</i> sp./spp.)	1	0	0	0
Leaf Spot (<i>Bipolaris</i> sp./spp.)	3	0	0	0
Leaf Spot (<i>Exserohilum</i> sp./spp.)	1	0	0	0
Poor Leaf Emergence (Abiotic disorder)	1	0	0	0
Pythium Blight; Cottony Blight (<i>Pythium</i> sp./spp.)	1	0	0	0
Root Decline of Warm Season Grasses (<i>Gaeumannomyces graminis</i> var. <i>graminis</i>)	1	0	0	0
Root Knot Nematodes (<i>Meloidogyne</i> sp./spp.)	3	0	0	0
Root Problems (Abiotic disorder)	1	0	0	0
Root-knot Nematodes (Family Heteroderidae)	0	0	0	2
Sheathoid Nematode (<i>Hemicriciconemoides</i> sp./spp.)	1	0	0	0
Soil Compaction (Abiotic disorder)	1	0	0	0
Sting Nematodes (<i>Belonolaimus</i> sp./spp.)	1	0	0	0
Torpedograss (<i>Panicum repens</i>)	1	0	0	0
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Root Problems (Abiotic disorder)	1	0	0	0
Sixweeks Fescue (<i>Vulpia octoflora</i>)	1	0	0	0

	Confirmed	Not Detected	Suspected	Inconclusive
Carpetgrass (Axonopus affinis) 1				
Creeping Lilyturf (<i>Liriope spicata</i>)	1	0	0	0
Centipedegrass (Eremochloa ophiuroides) 119				
Annual Bluegrass (<i>Poa annua</i>)	1	0	0	0
Anthracnose (<i>Colletotrichum graminicola</i>)	1	0	0	0
Anthracnose; Colletotrichum Leaf Spot (<i>Colletotrichum</i> sp./spp.)	6	0	0	0
Brown Patch (<i>Rhizoctonia</i> sp./spp.)	3	0	0	0
Brown Patch (<i>Thanatephorus</i> (<i>Rhizoctonia</i>) <i>cucumeris</i> (<i>solani</i>))	1	0	0	0
Butterflies; Moths; Caterpillars (Order lepidoptera)	0	0	0	1
Corn Speedwell (<i>Veronica arvensis</i>)	1	0	0	0
Crown and Stem Rot (<i>Fusarium</i> sp./spp.)	2	0	0	0
Cultural/Environmental Problem (Abiotic disorder)	6	0	16	0
Dense Thatch Layer (Abiotic disorder)	3	0	0	0
Digger Bee (<i>Anthophora</i> sp./spp.)	1	0	0	0
Dollar Spot (<i>Sclerotinia homeocarpa</i>)	1	0	0	0
Environmental Stress; Problem (Abiotic disorder)	1	0	0	0
European Field Pansy (<i>Viola arvensis</i>)	1	0	0	0
Field Burrweed; Spurweed (<i>Soliva sessilis</i> (<i>pterosperma</i>))	1	0	0	0
Groundpears (<i>Margarodes</i> sp./spp.)	1	0	0	0
Hairy Cat's Ear (<i>Hypochaeris radicata</i>)	1	0	0	0
Herbicide Injury; Exposure (Abiotic disorder)	0	0	1	0
Large Patch (<i>Thanatephorus</i> (<i>Rhizoctonia</i>) <i>cucumeris</i> (<i>solani</i>))	9	0	0	0
Low pH; Nutrient Imbalance (Abiotic disorder)	2	0	1	0
Mealybugs (Family Pseudococcidae)	0	0	0	1
Nematodes; General Plant (Order tylenchida)	1	0	0	0
Nutrient Imbalance (Abiotic disorder)	2	0	1	0
Nutritional Deficiency (Abiotic disorder)	2	0	0	0
Phosphorous Deficiency (Abiotic disorder)	1	0	0	0
Poor Leaf Emergence (Abiotic disorder)	15	0	9	0
Potassium Deficiency (Abiotic disorder)	0	0	1	0
Pythium Blight; Cottony Blight (<i>Pythium</i> sp./spp.)	1	0	0	0
<i>Rhizoctonia</i> Leaf Spot and/or Leaf Blight (<i>Rhizoctonia</i> sp./spp.)	3	0	0	0

	Confirmed	Not Detected	Suspected	Inconclusive
Rhodesgrass Mealybug (<i>Antonina graminis</i>)	2	0	0	0
Ring Nematode (<i>Mesocriconema</i> sp./spp.)	2	0	0	0
Soil Compaction (Abiotic disorder)	3	0	0	0
Spoonleaf Purple Everlasting (<i>Gamochaeta purpurea</i>)	1	0	0	0
Sting Nematodes (<i>Belonolaimus</i> sp./spp.)	3	0	0	0
Tiny Vetch (<i>Vicia hirstua</i>)	1	0	0	0
Tweedy's cat's ear (<i>Hypochaeris brasiliensis</i> var. <i>tweediei</i>)	1	0	0	0
Twolined Spittlebug (<i>Prosapia bicincta</i>)	0	0	3	0
Weedy Grasses (Family Poaceae)	0	0	0	1
Fescue, Tall (<i>Festuca arundinacea</i>) 1				
Low pH; Nutrient Imbalance (Abiotic disorder)	1	0	0	0
Fescues (<i>Festuca</i> spp.) 4				
Annual Bluegrass (<i>Poa annua</i>)	0	0	1	0
Anthrachnose (<i>Colletotrichum graminicola</i>)	1	0	0	0
Leaf Rust; rust (<i>Puccinia</i> sp./spp.)	1	0	0	0
Red Thread (<i>Laetisaria fuciformis</i>)	1	0	0	0
Ryegrass (<i>Lolium</i> sp./spp.) 1				
Helminthosporium Leaf Spot (<i>Drechslera</i> sp./spp.)	1	0	1	0
St. Augustinegrass (<i>Stenotaphrum secundatum</i>) 10				
Chinch Bug Complex (<i>Blissus</i> sp./spp.)	2	0	0	0
Cultural/Environmental Problem (Abiotic disorder)	1	0	3	0
Gray Leaf Spot (<i>Magnaporthe</i> (ana. <i>Pyricularia</i>) <i>grisea</i>)	1	0	0	0
Insufficient Sample (Identification Analysis)	0	0	0	1
Low pH; Nutrient Imbalance (Abiotic disorder)	1	0	0	0
Poor Leaf Emergence (Abiotic disorder)	0	0	1	0
Turfgrass (mixed species) 3				
Cultural/Environmental Problem (Abiotic disorder)	1	0	0	0
Garden Vetch (<i>Vicia sativa</i>)	1	0	0	0
Torpedograss (<i>Panicum repens</i>)	0	0	0	1
Zoysia (<i>Zoysia japonica</i>) 2				
Cultural/Environmental Problem (Abiotic disorder)	2	0	0	0

	Confirmed	Not Detected	Suspected	Inconclusive
Zoysia Grass (Zoysia sp./spp.) 40				
Cereal/ Grass Disease (Bipolaris sp./spp.)	1	0	0	0
Cultural/Environmental Problem (Abiotic disorder)	2	0	4	0
Dollar Spot (Sclerotinia homeocarpa)	4	0	0	0
Insufficient Sample (Identification Analysis)	1	0	0	2
Large Patch (Thanatephorus (Rhizoctonia) cucumeris (solani)	6	0	0	0
Leaf Rust; rust (Puccinia sp./spp.)	2	0	0	0
Mechanical Damage (Abiotic disorder)	1	0	0	0
Partridge Berry (Mitchella repens)	1	0	0	0
Pythium Blight; Cottony Blight (Pythium sp./spp.)	2	0	0	0
Pythium Root Dysfunction (Pythium sp./spp.)	1	0	0	0
Rhodesgrass Mealybug (Antonina graminis)	0	0	1	0
Root Knot Nematodes (Meloidogyne sp./spp.)	1	0	0	0
Root Problems (Abiotic disorder)	1	0	3	0
Rust; Leaf Rust (Puccinia zoysiae)	6	0	0	0
Soil Compaction (Abiotic disorder)	1	0	0	0

Diagnoses/Identifications on Vegetables & Herbs

	Confirmed	Not Detected	Suspected	Inconclusive
Asparagus (<i>Asparagus officinalis</i>) 1				
Asparagus Fusarium Crown Rot (<i>Fusarium oxysporum</i> f.sp. <i>asparagi</i>)	1	0	0	0
Broccoli (<i>Brassica oleracea</i> var. <i>botrytis</i>) 2				
Downy Mildew (<i>Hyaloperonospora</i> (<i>Peronospora</i>) <i>parasitica</i>)	2	0	0	0
Cabbage (<i>Brassica oleracea</i>) 3				
Downy Mildew (<i>Hyaloperonospora</i> (<i>Peronospora</i>) <i>parasitica</i>)	2	1	0	0
Cucumber (<i>Cucumis sativus</i>) 3				
Black Leg; Pythium Stem Rot (<i>Pythium</i> sp./spp.)	1	0	0	0
Fusarium Stem Rot (<i>Fusarium</i> sp./spp.)	1	0	0	0
Twospotted Spider Mite (<i>Tetranychus urticae</i>)	1	0	0	0
Pepper (<i>Capsicum annuum</i> var.) 3				
Common Thrips (Family Thripidae)	0	0	0	1
Tomato Spotted Wilt (Tomato Spotted Wilt Virus (TSWV))	1	0	0	0
Unidentified Virus (Unidentified Virus)	0	0	0	1
Pepper, Bell (<i>Capsicum annuum grossum</i>) 2				
Cyclamen Mite (<i>Phytonemus</i> (<i>Steneotarsonemus</i>) <i>pallidus</i>)	0	0	1	0
Tomato Spotted Wilt (Tomato Spotted Wilt Virus (TSWV))	1	0	0	0
Pepper, Jalapeno (<i>Capsicum annuum annuum</i>) 1				
Tomato Spotted Wilt Virus (TSWV)	1	0	0	0
Pepper, ornamental (<i>Capsicum</i> sp./spp.) 1				
Unidentified Virus (Unidentified Virus)	0	0	0	1
Snap bean; green bean (<i>Phaseolus vulgaris</i>) 1				
Dieback/ Stem Rot (<i>Sclerotinia sclerotiorum</i>)	0	0	1	0
Squash (<i>Cucurbita</i> sp./spp.) 1				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Sweetpotato (<i>Ipomoea batatas</i>) 8				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Environmental Stress; Problem (Abiotic)	0	0	1	0
Fusarium Root Rot (<i>Fusarium solani</i>)	1	0	0	0

	Confirmed	Not Detected	Suspected	Inconclusive
Fusarium Root; Stem Rot (<i>Fusarium solani</i>)	1	0	0	0
Fusarium Surface Rot (<i>Fusarium</i> sp./spp.)	1	0	0	0
Root Damage (Abiotic disorder)	0	0	1	0
Sweetpotato Black Rot (<i>Ceratocystis</i> (ana. <i>Chalara</i>) <i>fimbriata</i>)	2	0	0	0
Tomato (<i>Lycopersicon esculentum</i>) 14				
Bacterial Stem Rot (<i>Dickeya</i> (<i>Pectobacterium</i>) <i>chrysanthemi</i>)	0	0	1	0
Blossom End Rot (Abiotic disorder)	1	0	0	0
Botrytis Blight (<i>Botrytis</i> sp./spp.)	1	0	0	0
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Graywall (Unknown Agent)	0	0	1	0
Herbicide Drift (Abiotic disorder)	0	0	1	0
Herbicide Injury; Exposure (Abiotic disorder)	1	0	2	0
Nutrient Imbalance (Abiotic disorder)	0	0	2	0
Tomato Spotted Wilt (Tomato Spotted Wilt Virus (TSWV))	1	1	0	0
White Mold (Stem Rot) (<i>Sclerotinia sclerotiorum</i>)	1	0	0	0

Diagnoses/Identifications on Fruits & Nuts

	Confirmed	Not Detected	Suspected	Inconclusive
Blackberry (<i>Rubus</i> sp./spp.) 6				
Blackberry Yellow Vein-Associated (Crinivirus Blackberry Yellow Vein- Associated Virus)	0	0	2	0
Botrytis Blight (<i>Botrytis</i> sp./spp.)	2	0	0	0
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Phomopsis Dieback; Tip Blight; Canker (<i>Phomopsis</i> sp./spp.)	1	0	0	0
Blueberry (<i>Vaccinium</i> sp./spp.) 1				
Dieback; Canker; Twig Blight (<i>Botryosphaeria</i> sp./spp.)	1	0	0	0
Blueberry, Rabbit-eye (<i>Vaccinium ashei</i>) 1				
Unknown Abiotic Disorder (Abiotic disorder)	0	0	0	1
Grape (<i>Vitis</i> sp./spp.) 3				
Canker; Stem Blight; Dieback (<i>Botryosphaeria dothidea</i>)	1	0	0	0
Phomopsis Dieback; Tip Blight; Canker (<i>Phomopsis</i> sp./spp.)	1	0	0	0
Root Problems (Abiotic disorder) [1	0	0	0
Grape, Muscadine (<i>Vitis rotundifolia</i>) 1				
Grape Root Borer (GRB) (<i>Vitacea</i> <i>polistiformes</i>)	1	0	0	0
Grapefruit (<i>Citrus paradisi</i>) 4				
Purple Scale (<i>Lepidosaphes beckii</i>)	1	0	0	0
Thrips (Order thysanoptera)	0	0	0	1
Lemon (<i>Citrus limon</i>) 5				
Aphidlions (Green Lacewings) (Family <i>Chrysopidae</i>)	0	0	0	1
Citrus Leafminer (CLM) (<i>Phyllocnistis</i> <i>citrella</i>)	0	0	1	0
Citrus Snow Scale (<i>Unaspis citri</i>)	0	0	1	0
Leafminer (<i>Phyllonorycter</i> sp./spp.)	0	0	1	0
Nutritional Deficiency (Abiotic disorder)	0	0	1	0
Peach (<i>Prunus persica</i>) 3				
Copper Toxicity (Abiotic disorder)	1	0	0	0
No Pathogen Found (Identification Analysis)	0	1	0	0
Noctuid Moths (Family <i>Noctuidae</i>)	0	0	0	1

	Confirmed	Not Detected	Suspected	Inconclusive
Pear, Callery (Pyrus calleryana) 1				
Anthracnose; Colletotrichum Leaf Spot (Colletotrichum sp./spp.)	0	0	0	1
Pecan (Carya illinoensis) 1				
Pecan; Hickory Scab (Cladosporium caryigenum)	1	0	0	0
Strawberry (Fragaria sp./spp.) 3				
Glyphosate Injury (Abiotic disorder)	1	0	0	0
Rhizoctonia Leaf Spot and/or Leaf Blight (Rhizoctonia sp./spp.)	1	0	0	0
Twospotted Spider Mite (Tetranychus urticae)	1	0	0	0
Strawberry, Commercial (garden) (Fragaria x ananassa) 9				
Botrytis Blight (Botrytis sp./spp.)	1	0	0	0
Fusarium Blight (Fusarium sp./spp.)	1	0	0	0
Fusarium Crown Rot (Fusarium sp./spp.)	1	0	0	0
No Pathogen Found (Identification Analysis)	0	1	0	0
Phytophthora Root and Crown Rot (Phytophthora cactorum)	3	0	0	0
Spider Mites (Family Tetranychidae)	0	0	0	1
Strawberry Angular Leaf Spot; A (Xanthomonas fragariae)	1	0	0	0
Tangelo (Citrus x tangelo) 1				
Anthracnose Fruit Rot (Colletotrichum sp./spp.)	1	0	0	0
Watermelon (Citrullus lanatus) 6				
Anthracnose Basal Rot; Crown Rot (Colletotrichum sp./spp.)	1	0	0	0
Damping Off (Fusarium sp./spp.)	1	0	0	0
Natural Senescence (Abiotic disorder)	0	0	1	0
No Pathogen Found (Identification Analysis)	0	0	0	1
Pythium Root and/or Crown Rot (Pythium sp./spp.)	1	0	0	0
Watermelon Fusarium Wilt (Fusarium oxysporum f.sp. niveum)	1	0	0	0

Diagnoses/Identifications on Field Crops, Pastures & Forage

	Confirmed	Not Detected	Suspected	Inconclusive
Alfalfa (<i>Medicago sativa</i>) 1				
Curly Dock (<i>Rumex crispus</i>)	1	0	0	0
Clover, Crimson (<i>Trifolium incarnatum</i>) 2				
Dieback/ Stem Rot (<i>Sclerotinia sclerotiorum</i>)	1	0	0	0
Rust (<i>Uromyces</i> sp./spp.)	1	0	0	0
Corn (<i>Zea mays</i>) 2				
Damping Off (<i>Fusarium</i> sp./spp.)	1	0	0	0
Herbicide Injury; Exposure (Abiotic disorder)	1	0	0	0
Hay straw (<i>Poaceae</i> sp./spp.) 1				
Little Barley (<i>Hordeum pusillum</i>)	1	0	0	0
Pasture (habitat) 2				
Annual Trampweed (<i>Facelis retusa</i>)	1	0	0	0
Everlasting (<i>Gamochaeta</i> sp.)	1	0	0	0
Peanut (<i>Arachis hypogaea</i>) 1				
Jerusalem Artichoke (<i>Helianthus tuberosus</i>)	1	0	0	0
Sunflower (<i>Helianthus annuus</i>) 5				
Alternaria Leaf Spot (<i>Alternaria</i> sp./spp.)	1	0	0	0
Chemical; Environmental Injury (Abiotic disorder)	0	0	1	0
Fusarium Stem; Root Rot (<i>Fusarium</i> sp./spp.)	1	0	0	0
Herbicide Carryover (Abiotic disorder)	0	0	1	0
Unknown Abiotic Disorder (Abiotic disorder)	0	0	0	1
Tobacco (<i>Nicotiana tabacum</i>) 2				
Cultural/Environmental Problem (Abiotic disorder)	0	0	1	0
Nutrient Imbalance (Abiotic disorder)	0	0	1	0
Wheat, Common (<i>Triticum aestivum</i>) 6				
Anthracnose (<i>Colletotrichum graminicola</i>)	1	0	0	0
Black Head Mold (<i>Epicoccum nigrum</i>)	1	0	0	0
Cladosporium Black Head Mold (<i>Cladosporium</i> sp./spp.)	1	0	0	0
Leaf Spot (<i>Phaeosphaeria</i> (<i>Stagonospora</i>) <i>nodorum</i>)	1	0	0	0
Nutrient Imbalance (Abiotic disorder)	0	0	2	0

Plant & Mushroom Identifications

	Confirmed	Not Detected	Suspected	Inconclusive
Aquatic Habitat (general) 2				
Chlamydomonas (unicellular green algae)	1	0	0	0
Filamentous Green Algae (Spirogyra; Oedogonium; Cladophora sp./spp.)	1	0	0	0
Mushroom (general) 1				
Mold; Mildew (Peziza domiciliana)	1	0	0	0
Plant Id Request (general) 8				
Black Cherry (Prunus serotina)	1	0	0	0
Blackberries and Raspberries (Rubus sp./spp.)	1	0	0	0
Filamentous Green Algae (Spirogyra; Oedogonium; Cladophora sp./spp.)	1	0	0	0
Florida Betony (Stachys floridana)	1	0	0	0
Japanese Plum Yew (Cephalotaxus harringtonia)	1	0	0	0
Piedmont Bedstraw (Cruciata pedmontana)	0	0	1	0
River cane (Arundinaria gigantea)	1	0	0	0
Waterthread Pondweed (Potamogeton diversifolius)	1	0	0	0
Ponds; Lakes; Impounded waters (Aquatic habitat) 13				
Baldwin's Spikerush (Eleocharis baldwinii)	1	0	0	0
Blue (Carolina) Waterhyssop (Bacopa caroliniana)	1	0	0	0
Blue-green Algae (Oscillatoria sp./spp.)	1	0	0	0
Chlamydomonas (unicellular green algae)	1	0	0	0
Filamentous Green Algae (Spirogyra; Oedogonium; Cladophora sp./spp.)	3	0	0	0
Hydrilla (Hydrilla verticillata)	1	0	0	0
Lemna Duckweed (Lemna sp./spp.)	1	0	0	0
Parrot-feather (Myriophyllum aquaticum)	1	0	0	0
Stonewort (Chara sp./spp.)	1	0	0	0
Twoleaf Watermilfoil (Myriophyllum heterophyllum)	1	0	0	0
Watershield (Brasenia schreberi)	1	0	0	0
Water sample (aquatic habitat) 1				
Blue-green Algae (Microcystis sp./spp.)	1	0	0	0

Insect Identifications

	Confirmed	Not Detected	Suspected	Inconclusive
Firewood (habitat) 1				
Flower Flies (Family Syrphidae)	0	0	0	1
Insect Id request (general) 66				
Angoumois Grain Moth (Sitotroga cerealella)	1	0	0	0
Anthomyiid Flies (Family Anthomyiidae)	0	0	0	1
Argentine Ant (Linepithema humile)	1	0	0	0
Beetle (Coleoptera)	0	0	0	1
Black Carpenter Ant (Camponotus pennsylvanicus)	1	0	0	0
Black Carpet Beetle (Attagenus sp.)	1	0	0	0
Blacklegged Tick (Ixodes scapularis)	1	0	0	0
Brachymyrmex patagonicus (dark rover ant)	1	0	0	0
Braconid Parasite Wasps (Family Braconidae)	0	0	0	1
Brown Marmorated Stink Bug (Halyomorpha halys)	1	0	0	0
Butterflies; Moths; Caterpillars (Order lepidoptera)	0	6	0	1
Cabbage Looper (CL) (Trichoplusia ni)	1	0	0	0
Camel (Cave) Crickets (Subfamily Rhaphidophorinae)	0	6	0	1
Cerambycid Beetles (Family Cerambycidae)	0	0	0	1
Cigarette Beetle (Lasioderma serricorne)	1	0	0	0
Darkling/ground beetle (Tenebrionidae)	0	0	0	1
Deer Tick (Ixodes dammini)	2	0	0	0
Digger Bee (Andrena sp.)	1	0	0	0
Eastern Subterranean Termite (Reticulitermes flavipes)	3	0	0	0
Formosan Subterranean Termite (Coptotermes formosanus)	3	0	1	0
Ground Beetles (Family Carabidae)	0	0	0	1
Gulf Coast Tick (Amblyomma maculatum)	1	0	0	0
Humpbacked Flies (Family Phoridae)	0	0	0	1
Japanese Beetle (Popillia japonica)]	1	0	0	0
Leafhoppers (Family Cicadellidae)	0	0	0	1
Lesser Mealworm (Alphitobius diaperinus)	1	0	0	0
Lone Star Tick (Amblyomma americanum)	1	0	0	0
No arthropods found	0	0	0	1

	Confirmed	Not Detected	Suspected	Inconclusive
No biting or stinging insects found	0	0	0	1
No insect found	0	1	0	1
No insects found	0	7	0	0
Noctuid Moths (Family Noctuidae)	0	0	0	1
Odorous House Ant (Tapinoma sessile)	3	0	0	0
Pavement Ant (Tetramorium caespitum)	1	0	0	0
Psocids (Family Psocidae; Psocoptera)	0	0	0	1
Scoliid Wasps (Family Scoliidae)	0	0	0	1
Smoky Brown Cockroach (Periplaneta fuliginosa)	1	0	0	0
Spring Cankerworm (Paleacrita vernata)	1	0	0	0
Springtails (Order collembola)	0	0	0	1
Thrips (Frankliniella sp./spp.)	1	0	0	0
Thrips (Order thysanoptera)	0	0	1	0
Varied Carpet Beetle (Anthrenus verbasci)	1	0	0	0
Velvet Mites (Family Trombididae)	0	0	0	1
Vinegar Fly (Drosophila melanogaster)	1	0	0	0
no insect found	0	1	0	0

Diagnoses and Identifications of Regulatory Significance

	Confirmed	Not Detected	Suspected	Inconclusive
Grapefruit (Citrus paradisi) 2				
Citrus Greening, Huanglongbing (Asian)(Candidatus Liberibacter asiaticus)	0	1	0	0
Citrus Greening, Huanglongbing (Brazilian)Candidatus Liberibacter americanus)	0	1	0	0
Insects (general) 7				
European Grapevine Moth (Lobesia botrana)	0	1	0	0
False Codling Moth (Thaumatotibia leucotreta)	0	3	0	0
Light Brown Apple Moth (Epiphyas postvittana)	0	2	0	0
Summer Fruit Tortrix Moth (Adoxophyes orana)	0	1	0	0