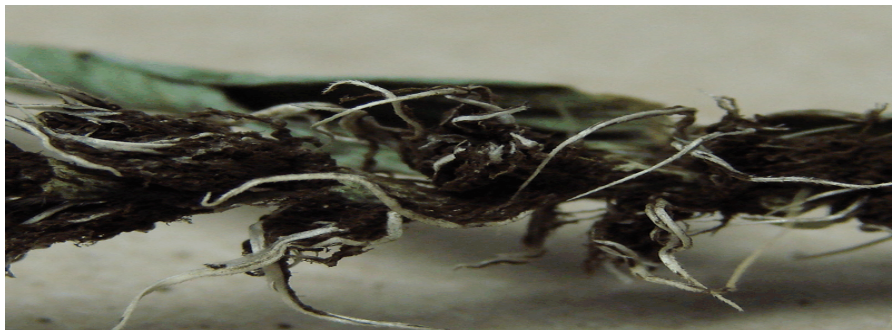


Annual Plant Disease Clinic Summary 2007



Department of Plant Pathology
Compiled by Holly Thornton

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Introduction

The Plant Pathology Department at the University of Georgia's College of Agricultural and Environmental Sciences maintains two plant disease diagnostic clinics—one in Athens, Ga., and one in Tifton, Ga. Commercial turf, fruits, forage crops, greenhouse, ornamental nursery and homeowner samples are analyzed at the Plant Disease Clinic in Athens. Samples of commercial field crops, pecans and vegetables are diagnosed at the Plant Disease Clinic in Tifton. Diagnoses and management recommendations are returned to county faculty. The clinics maintain a computerized database of samples and their diagnoses and a reference library for use by extension agents, specialists, researchers and students.

Extension Plant Pathology specialists also participate in digital plant diagnostics using the DDDI system, which helps provide a more timely diagnosis and recommendation for a number of plant disease samples.

Some pathogens identified in the “Crop Summaries” section are listed by both genus and species, whereas others are identified as the genus or “species.” Our plant disease clinic does not routinely identify plant pathogens by species because species identification is very time-consuming and often not necessary for management recommendations. In cases where only one species is known or where species are easily identifiable, the species of the pathogen is listed.

The following abbreviations are used throughout the summaries:

PDC: Plant Disease Clinic

C: Commercial

IPM: Homeowner IPM Clinic

H: Homeowner

TDTD: Too deteriorated to diagnose. This indicates that the plant sample submitted to the clinic was too deteriorated to properly diagnose.

ETRI: Ectotrophic root-infecting fungi (similar to *G. graminis*)

GGG: *Gaeumannomyces graminis* var. *graminis*

LSREP: Lower stem, root or environmental problem. This diagnosis indicates that no pathogens were associated with the part of the plant submitted and that the origin of the problem either was occurring lower on the plant or was due to environmental or cultural conditions.

This report includes both physical samples submitted to the Plant Disease Clinics and results from analyses of digital samples submitted through the DDDI system. The DDDI database includes the samples contained herein and serves as a record-keeping system for our diagnostic clinics (www.dddi.org/uga).

Finally, it is interesting to see which sample categories have increased or decreased over the last two years. For instance, commercial herbaceous ornamental samples decreased by half from 2006 to 2007. This could be a factor of the severe drought. On the other hand, turfgrass sample submission has increased over the last year. In addition, homeowner sample numbers bounced back from 2006, when the diagnostic clinic was closed for over half the year.

Addresses for submission of physical samples to the Plant Disease Clinics are:

Athens Clinic: Commercial turf, ornamentals, forestry and fruits
Homeowner Samples

Address: Plant Disease Clinic
2106 Miller Plant Sciences Bldg.
Athens, GA 30602-4356

Tifton Clinic: Commercial vegetables, row crops and pecans

Address: Tifton Plant Disease Clinic
Room 116
4604 Research Way
Tifton, GA 31793

Information for preparation of samples for submission can be found at:
<http://plantpath.caes.uga.edu/extension/DiseaseLibrary.html>

Plant Disease Clinic Summaries:

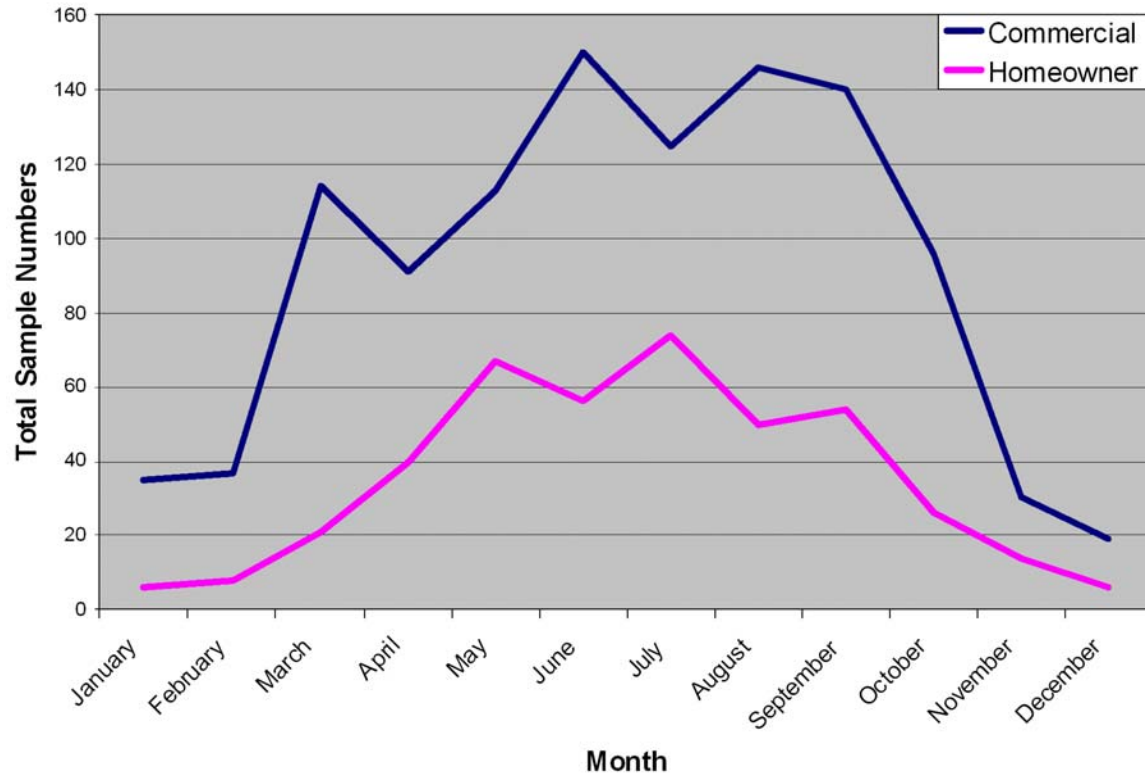
2007 Plant Specimen Diagnoses			
Crop	Commercial Samples	Homeowner IPM Samples	Total
Field Crops	220	5	225
Vegetables	303	57	360
Fruits & Nuts	105	26	131
Herbaceous Ornamentals	87	47	134
Woody Ornamentals	148	91	239
Trees	80	84	164
Turf	400	95	595
Miscellaneous	7	8	15
Total*	1350	513	1863

*The total number of diagnoses shown here is larger than the total number of samples received (shown by Monthly Sample Submission in the table below) because some samples had more than one problem or diagnosis.

The largest crop category received by the diagnostic clinics for both commercial and homeowner samples was turfgrass, followed by vegetables (commercial) and woody ornamentals (homeowner).

2007 Monthly Sample Submission Summary		
Month	Samples	
	Commercial	Homeowner
January	35	6
February	37	8
March	114	21
April	91	40
May	113	67
June	150	56
July	125	74
August	146	50
September	140	54
October	96	26
November	30	14
December	19	6
Total	1,096	422

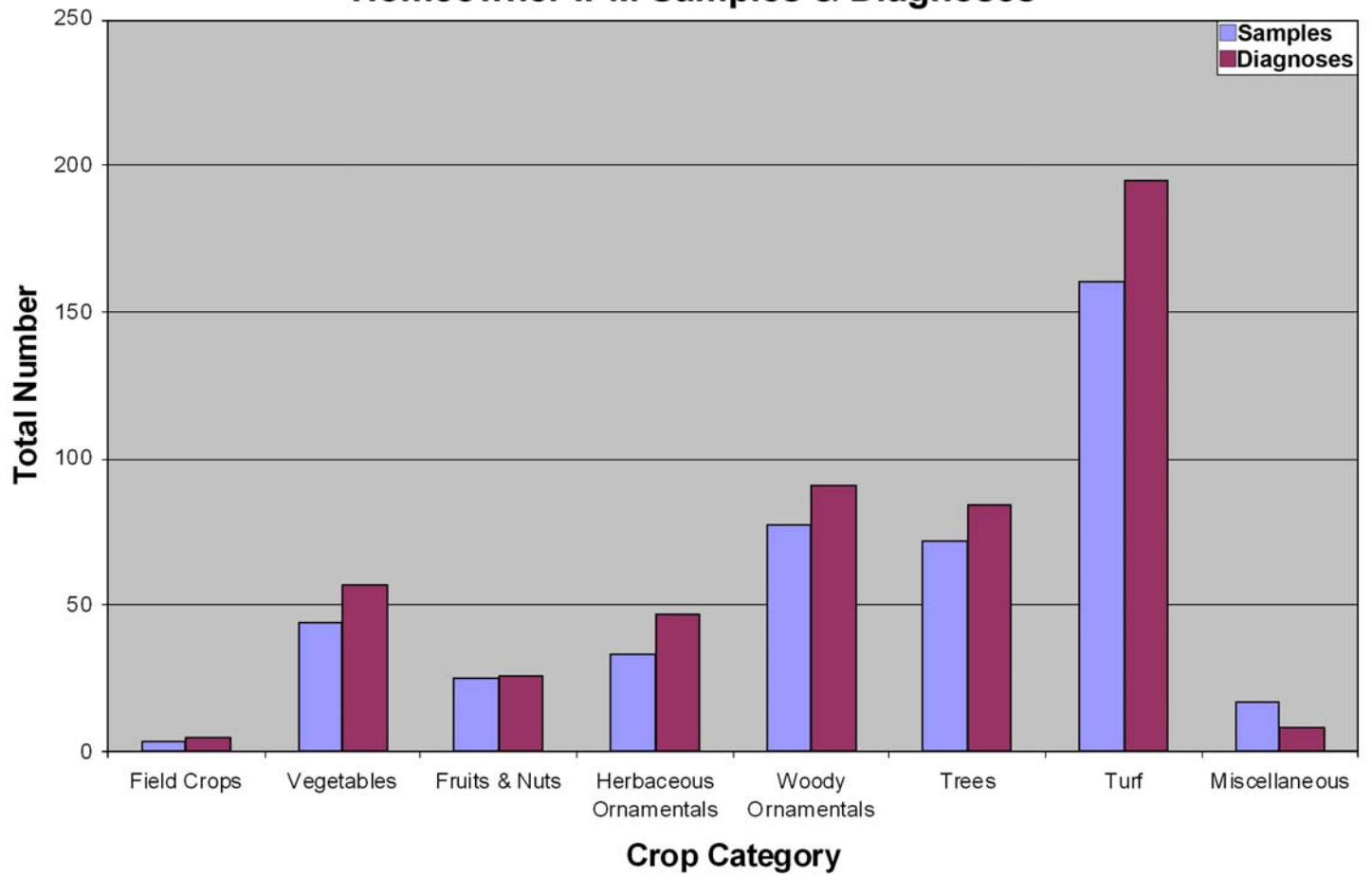
Monthly Sample Submission (Commercial & Homeowner)



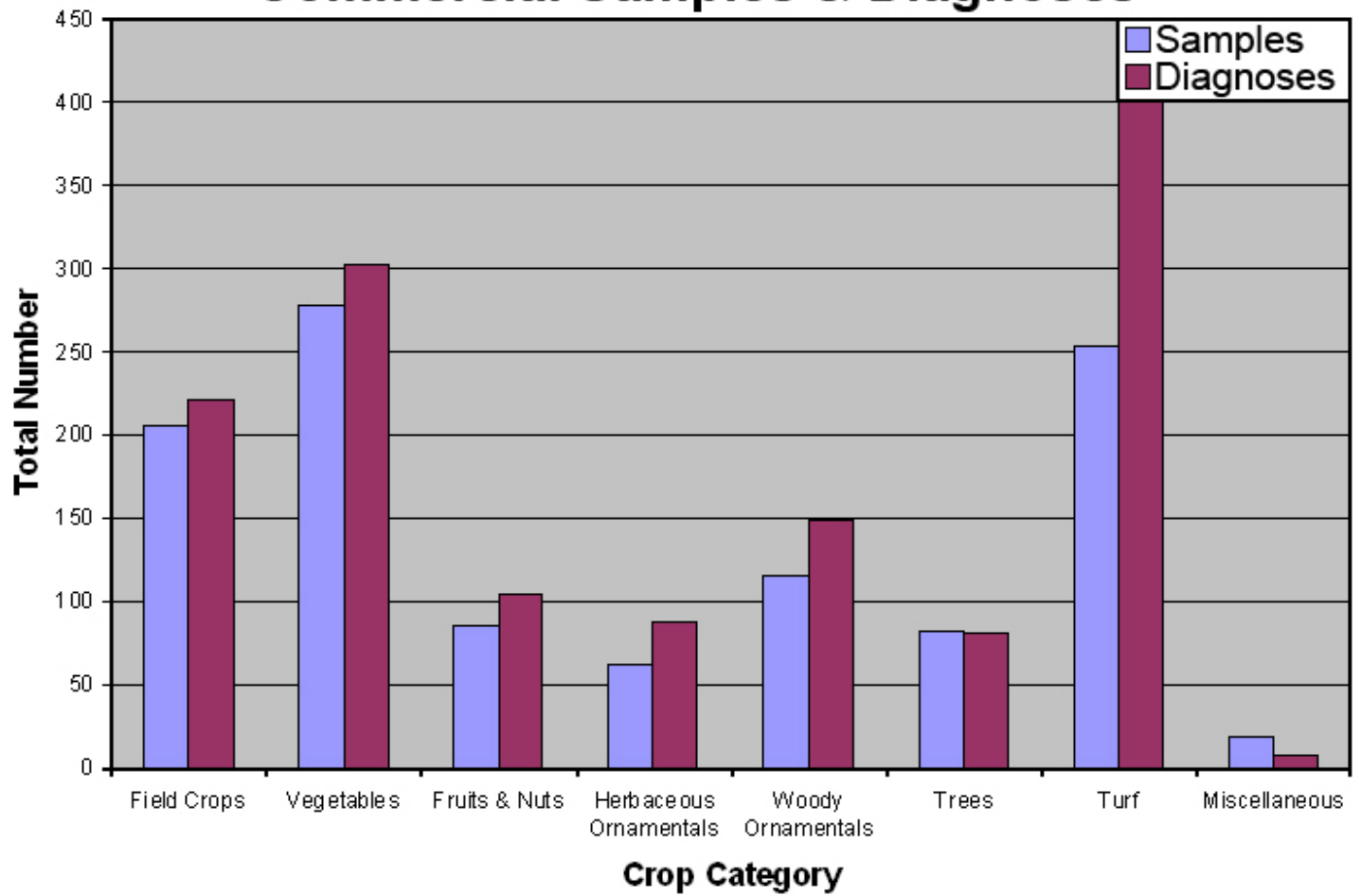
As shown above, the busiest months in the diagnostic clinics are March and June through October. Sample numbers decrease dramatically during the winter months.

Comparisons between the number of samples submitted to the clinic and the number of diagnoses made are shown on pages 3 and 4 for both homeowner and commercial samples. The numbers oftentimes differ due to the fact that some plant samples have multiple pathogenic organisms contributing to the death of the plant. This is especially true for turfgrass samples and diseases.

Homeowner IPM Samples & Diagnoses



Commercial Samples & Diagnoses



Distribution of Homeowner Samples by County

County	Samples		County	Samples
Appling	1		Gwinnett	17
Atkinson	2		Hall	1
Bacon	1		Harris	8
Baker	4		Henry	5
Baldwin	2		Houston	2
Banks	1		Jackson	9
Barrow	4		Jeff Davis	3
Bartow	9		Jefferson	3
Berrien	5		Jenkins	7
Bibb	31		Johnson	1
Bryan	1		Laurens	1
Burke	1		Lee	10
Camden	1		Lincoln	1
Candler	3		Long	2
Carroll	13		Lowndes	2
Chatham	6		Lumpkin	3
Cherokee	6		Macon	2
Clarke	21		Madison	4
Clayton	1		Miller	1
Cobb	5		Mitchell	1
Coffee	1		Monroe	20
Columbia	3		Morgan	10
Cook	1		Muscogee	9
Coweta	16		Newton	7
Crawford	1		Oconee	2
Crisp	2		Paulding	2
Dade	2		Pickens	1
Decatur	2		Pierce	8
DeKalb	6		Pulaski	3
Dooly	3		Rabun	3
Dougherty	16		Randolph	1
Douglas	2		Richmond	3
Echols	2		Rockdale	4
Effingham	2		Schley	6
Elbert	1		Stephens	4
Evans	1		Thomas	1
Fannin	2		Toombs	4
Fayette	28		Troup	2
Floyd	1		Union	1
Forsyth	3		Upson	1
Franklin	1		Walker	2
Fulton	4		Walton	1
Gilmer	1		Ware	15
Glynn	1		Webster	1
Gordon	1		Whitfield	3
Grady	7		Wilkes	3
Greene	3		NA*	4
* Samples were submitted without indicating a county of origin.				

Distribution of Commercial Samples by County

County	Samples		County	Samples
Appling	5		Gilmer	2
Atkinson	2		Glynn	1
Bacon	17		Gordon	6
Banks	1		Grady	20
Barrow	1		Gwinnett	8
Bartow	2		Habersham	3
Berrien	38		Hall	3
Bibb	5		Harris	7
Bleckley	1		Hart	2
Brantley	2		Henry	2
Brooks	1		Houston	5
Bulloch	10		Irwin	9
Burke	18		Jasper	1
Butts	1		Jeff Davis	12
Calhoun	2		Jefferson	5
Camden	3		Jenkins	2
Candler	1		Lamar	7
Carroll	4		Lanier	8
Catoosa	1		Laurens	7
Chatham	5		Lee	2
Cherokee	3		Liberty	1
Clarke	28		Lincoln	1
Clay	1		Lowndes	58
Clinch	7		Lumpkin	2
Cobb	16		Macon	18
Coffee	15		Madison	2
Colquitt	13		Marion	1
Columbia	20		McDuffie	48
Cook	13		Meriwether	1
Coweta	3		Miller	19
Crisp	5		Mitchell	11
Dade	1		Monroe	1
Dawson	2		Montgomery	4
Decatur	7		Morgan	12
DeKalb	12		Newton	2
Dodge	8		Oconee	13
Dooly	10		Oglethorpe	1
Dougherty	13		Paulding	1
Douglas	5		Peach	1
Early	3		Pickens	1
Echols	17		Pierce	20
Effingham	8		Polk	2
Emanuel	11		Pulaski	9
Evans	7		Quitman	1
Fayette	5		Rabun	3
Floyd	8		Randolph	1
Forsyth	10		Richmond	35
Fulton	7		Rockdale	7

County	Samples		County	Samples
Schley	2		Walker	2
Screven	6		Walton	6
Seminole	11		Ware	2
Spalding	1		Washington	2
Stephens	1		Wayne	5
Sumter	4		Webster	7
Tattnall	7		Wheeler	5
Telfair	2		White	1
Tift	23		Wilcox	15
Troup	1		Worth	11
Turner	12		NA*	223
Union	3			
* Samples were submitted without indicating a county of origin.				

Summary of Diagnoses by Crop

Field Crops

(Total Diagnoses: C = 220; H = 5)

Diagnostic Responsibilities: Tifton Clinic: Tobacco, Corn, Cotton, Soybean, Peanut

Athens Clinic: Homeowner samples

Host	Disease	Causal Organism	Samples
Alecia, Hay C = 1 H = 0	Rust		1
Alfalfa C = 4 H = 0	Wilt Crown and Stem Rot Crown and Stem Rot No Disease	Undetermined <i>Sclerotinia</i> sp. <i>Sclerotinia trifoliorum</i>	1 1 1 1
Amaranth C = 2 H = 0	Root Rot LSREP	<i>Pythium</i> sp.	1 1
Bahia Grass C = 2 H = 2	Head Blight Anthracnose	<i>Fusarium</i> sp. <i>Colletotrichum</i> sp. <i>Helminthosporium</i> sp. <i>Sclerotinia</i> sp.	1 1 1 1
Bermuda, Hay C = 2 H = 0		<i>Helminthosporium</i> sp. <i>Colletotrichum</i> sp.	1 1
Clover C = 1 H = 2	Black/Sooty Blotch No Disease Unknown		1 1 1
Corn C = 14 H = 0	Southern Corn Leaf Blight Southern Rust Ear Rot Smut No Disease	<i>Bipolaris maydis</i> <i>Puccinia polysora</i> <i>Fusarium</i> sp. <i>Ustilago maydis</i> <i>Helminthosporium</i> sp.	2 2 2 1 1 6
Cotton C = 14 H = 0	Rhizoctonia Soreshin Fusarium Wilt Leaf Spot Leaf Spot No Disease	<i>Rhizoctonia solani</i> <i>Rhizoctonia</i> sp. <i>Fusarium</i> sp. <i>Stemphylium</i> sp. <i>Alternaria</i> sp.	1 1 1 7 2 2
Fescue, Tall C = 2 H = 0	Rust	<i>Bipolaris</i> sp.	1 1
Grain, Small C = 1 H = 0	Powdery Mildew		1
Millet C = 3 H = 0	Leaf Spot	<i>Pyricularia</i> sp.	3
Oat C = 5 H = 0	Virus No Disease LSREP	Barley Yellow Dwarf	3 1 1

Host	Disease	Causal Organism	Samples
Peanut C = 45 H = 0	Crown Rot	<i>Aspergillus</i> sp.	3
	Leaf Scorch	<i>Leptosphaerulina crassiasca</i>	1
	Limb Rot	<i>Rhizoctonia</i> sp.	1
	Early Leaf Spot	<i>Cercospora arachidicola</i>	3
	Late Leaf Spot	<i>Cercosporidium personatum</i>	1
	Funky Leaf Spot		1
	Virus	Tomato Spotted Wilt	7
	Collar Rot	<i>Diplodia</i> sp.	2
	White Mold	<i>Sclerotium rolfsii</i>	2
	Cylindrocladium Black Rot	<i>Cylindrocladium crotalariae</i>	1
	Nematode Damage	<i>Meloidogyne</i> sp.	1
	Unknown		2
		<i>Rhizoctonia</i> sp.	1
		<i>Neocosmospora</i> sp.	3
		<i>Rhizoctonia solani</i>	2
	No Disease		14
Rye C = 3 H = 0	No Disease		3
Sorghum C = 3 H = 0	Gray Leaf Spot	<i>Cercospora</i> sp.	1
		<i>Rhizoctonia</i> sp.	1
	No Disease		1
Soybean C = 70 H = 1	Charcoal Rot	<i>Macrophomina</i> sp.	4
	Rust	<i>Phakopsora pachyrhizi</i>	1
	Bacterial Disease		1
	Downy Mildew	<i>Peronospora manshurica</i>	13
	Root Rot	<i>Rhizoctonia</i> sp.	1
	Stem Blight	<i>Phomopsis</i> sp.	1
	Wilt	<i>Fusarium</i> sp.	1
	Stem Canker/Lesion	<i>Phomopsis</i> / <i>Diaporthe</i> sp.	1
	White Mold	<i>Sclerotium rolfsii</i>	1
	Leaf Spot	<i>Cercospora</i> sp.	1
		<i>Neocosmospora</i> sp.	1
	No Disease		41
	TDTD		1
	Unknown		3
Tobacco C = 43 H = 0	Collar Rot	<i>Sclerotinia sclerotiorum</i>	2
	Brown Spot	<i>Alternaria</i> sp.	2
	Black Shank	<i>Phytophthora nicotianae</i> var. <i>parasitica</i>	6
	Black Shank Race-1	<i>Phytophthora nicotianae</i> var. <i>parasitica</i>	4
	Stem Rot	<i>Sclerotium rolfsii</i>	1
	Stalk Rot	<i>Erwinia</i> sp.	1
	Virus	Tomato Spotted Wilt	6
	Virus	Tobacco Mosaic	1
		<i>Rhizoctonia</i> sp.	1
		<i>Rhizoctonia solani</i>	5
		<i>Pythium</i> sp.	3
		<i>Pseudomonas</i> sp.	1
	No Disease		8
	TDTD		1
	LSREP		1
Wheat C = 5 H = 0	Virus	Soil-Borne Wheat	1
	No Disease		2
	LSREP		2

Vegetables
(Total Diagnoses: C = 303; H = 57)

Diagnostic Responsibilities: Tifton Clinic: Commercial
Athens Clinic: Homeowner

Host	Disease	Causal Organism	Samples
Arugula C = 1 H = 0	Root Rot	<i>Pythium</i> sp.	1
Basil C = 2 H = 0	Root Rot Stem and Leaf Blight	<i>Pythium</i> sp. <i>Phytophthora</i> sp.	1 1
Bean, Lima C = 1 H = 1	Unknown No Disease		1 1
Bean, Snap C = 14 H = 4	Ashy Stem Blight Cottony Leak Leaf Spot/Blight No Disease LSREP Unknown TDTD	<i>Macrophomina phaseolina</i> <i>Pythium</i> sp. Bacterial <i>Rhizoctonia solani</i> <i>Pythium</i> sp.	1 1 1 2 1 9 1 1 1
Cabbage C = 9 H = 0	Root Rot LSREP No Disease Unknown	<i>Pythium</i> sp. <i>Rhizoctonia</i> sp. <i>Rhizoctonia solani</i> Cold Injury	1 1 1 1 1 4
Cantaloupe C = 17 H = 0	Gummy Stem Blight Root Rot Powdery Mildew Virus Crown Decline No Disease	<i>Mycosphaerella citrullina</i> <i>Pythium</i> sp. Poty	2 2 2 3 1 7
Carrot C = 1 H = 0		<i>Rhizoctonia solani</i>	1
Collard C = 7 H = 3	Root Rot Nematode Damage Downy Mildew No Disease LSREP	<i>Pythium</i> sp. Possible <i>Peronospora parasitica</i> <i>Alternaria</i> sp.	1 1 1 1 5 1
Corn, Sweet C = 8 H = 1	Common Rust Purple Sheath Northern Corn Leaf Blight No Disease Undetermined	<i>Puccinia sorghi</i> <i>Exserohilum turicum</i>	1 1 1 5 1
Cucumber C = 14 H = 0	Virus Gummy Stem Blight Downy Mildew Phytophthora Blight No Disease TDTD	Cucumber Mosaic <i>Mycosphaerella citrullina</i> <i>Pseudoperonospora cubensis</i> <i>Pythium</i> sp. <i>Phytophthora capsici</i>	1 1 2 1 1 7 1

Host	Disease	Causal Organism	Samples
Eggplant C = 2 H = 0	Anthracnose	<i>Phomopsis</i> sp.	1 1
Gourd C = 1 H = 0	Leaf Spot	<i>Alternaria</i> sp.	1
Greens, Mustard C = 1 H = 1	Leaf Spot LSREP	<i>Cercospora</i> sp.	1 1
Greens, Turnip Greens, Micro C = 7 H = 4	Virus Virus Root Rot Leaf Spot No Disease LSREP TDTD	Gemini <i>Rhizoctonia</i> sp. <i>Cercospora</i> sp. <i>Pythium</i> and/or <i>Phytophthora</i> sp.	1 1 1 2 1 2 1 2
Kale C = 0 H = 3	LSREP TDTD	<i>Pythium</i> and/or <i>Rhizoctonia</i> sp.	1 1 1
Okra C = 2 H = 0	Wilt No Disease	Possible <i>Fusarium</i> sp.	1 1
Onion C = 11 H = 0	Stem Lesion Leaf Blight Basal Plate Rot Sour Skin Neck Rot Bacteria No Disease TDTD	<i>Botrytis</i> sp. <i>Stemphylium</i> sp. <i>Fusarium</i> sp. <i>Burkholderia cepacia</i> <i>Botrytis</i> sp. <i>Botrytis allii</i> Probable <i>Pantoea</i> sp. Probable <i>Erwinia</i> sp.	1 1 1 1 1 1 1 1 1 1
Parsley C = 0 H = 1	Crown Rot	<i>Sclerotinia sclerotiorum</i>	1
Pea C = 2 H = 2	Stems Stems Unknown	<i>Rhizoctonia</i> sp. <i>Pythium</i> sp. <i>Fusarium</i> sp.	1 1 1 1

Host	Disease	Causal Organism	Samples
Pepper C = 33 H = 1	Virus	Tomato Spotted Wilt	2
	Fruit Rot	Possible <i>Erwinia</i> sp.	1
	Leaf Spot	<i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (Copper Sensitive)	5
	Leaf Spot	<i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> (Copper Insensitive)	1
	Stem Lesions	<i>Erwinia</i> sp.	1
	Anthracnose		1
	Leaf Spot	<i>Xanthomonas campestris</i> pv. <i>vesicatoria</i>	1
	Root and Stem Rot	Possible <i>Pythium</i> sp.	3
	Roots	<i>Phytophthora</i> sp.	1
		<i>Pythium</i> sp.	5
		<i>Xanthomonas</i> sp.	3
	LSREP		1
	No Disease	Sunscald	7
Potato, Irish C = 3 H = 1	Leaf Spot	Bacterial	1
		<i>Fusarium</i> sp.	1
		Possible <i>Erwinia</i> sp.	1
	No Disease		1
Pumpkin C = 0 H = 3	Blossom / Fruit Blight	<i>Choanephora</i> sp.	1
	Crown Decline		1
	No Disease		1
Rape C = 0 H = 1	Root Rot	<i>Pythium</i> and/or <i>Rhizoctonia</i> sp.	1
Spinach C = 2 H = 0	Root Rot	<i>Pythium</i> sp.	1
	Virus	Cucumber Mosaic	1
Squash C = 5 H = 2	Virus	Squash Mosaic	1
	Virus	Cucumber Mosaic	1
	Phytophthora Blight	<i>Phytophthora capsici</i>	1
		<i>Xanthomonas</i> sp.	1
		<i>Pythium</i> sp.	1
	Downy Mildew	<i>Pseudoperonospora cubensis</i>	1
	No Disease		2
Tomato C = 42 H = 27	Leaf Mold	<i>Fulvia fulva</i>	1
	Early Blight	<i>Alternaria</i> sp.	1
	Leaf Spot	<i>Xanthomonas campestris</i> pv. <i>vesicatoria</i>	2
	Virus	Tomato Spotted Wilt	22
	Virus	Cucumber Mosaic	1
	Virus	Tobacco Mosaic	1
	Virus (Possible)	Tomato Yellow Leaf Curl	1
		<i>Pythium</i> sp.	2
		<i>Xanthomonas</i> sp.	2
	Blossom End Rot		3
	Cat Facing		1
	No Disease		20
	Unknown		5
	LSREP		2
	TDTD		3
	Insufficient Sample		2
Unknown Multiple Samples C = 0 H = 1	No Disease	Herbicide Damage	1

Host	Disease	Causal Organism	Samples
Watermelon C = 115 H = 1	Gummy Stem Blight	<i>Mycosphaerella citrullina</i>	3
	Fruit Blotch	<i>Acidovorax avenae</i> subsp. <i>citrulli</i>	19
	Fusarium Wilt (Probable)	<i>Fusarium</i> sp.	17
	Virus	Poty	3
	Nematode Damage	<i>Meloidogyne</i> sp.	1
	Crown Decline		2
	Powdery Mildew		4
	Virus		1
	Cottony Leak	<i>Pythium</i> sp.	1
		<i>Fusarium</i> sp.	3
		<i>Erwinia</i> sp.	1
		<i>Rhizoctonia solani</i>	1
		<i>Pythium</i> sp.	2
	No Disease		56
	Unknown		1
	Insufficient Sample		1
Zucchini C = 1 H = 0	Downy Mildew	<i>Pseudoperonospora cubensis</i>	1

Fruits and Nuts
(Total Diagnoses: C = 105; H= 26)

Diagnostic Responsibilities: Tifton Clinic: Commercial Nuts
Athens Clinic: Fruit (Commercial and Homeowner), Homeowner Nuts

Host	Disease	Causal Organism	Samples
Apple C = 3 H = 4	White Rot	<i>Botryosphaeria</i> sp.	1
	Bot Canker	<i>Botryosphaeria</i> sp.	1
	Leaf Spot	<i>Botryosphaeria</i> sp.	1
	Galling	Unknown	1
		<i>Alternaria</i> sp.	1
	No Disease		2
Blackberry C = 6 H = 4	Cane Blotch	<i>Cephaleuros virescens</i>	1
	Fire Blight	<i>Erwinia amylovora</i>	1
	White Rot		1
	Cane & Leaf Rust	<i>Kuehneola uredinis</i>	2
	Virus	Tomato Ringspot	1
		<i>Fusicoccum</i> sp.	1
	No Disease Unknown		1 2
Blueberry C = 56 H = 2	Twig Blight	<i>Phomopsis</i> sp.	1
	Root Rot	<i>Pythium</i> sp.	4
	Canker	<i>Sphaeropsis</i> sp.	1
	Root Rot	<i>Phytophthora</i> sp.	2
	Root Rot	<i>Pythium</i> sp. & <i>Phytophthora</i> sp.	1
	Root Rot		4
		<i>Rhizoctonia</i> sp.	1
		<i>Pythium</i> sp.	4
		<i>Phytophthora</i> sp.	3
		<i>Pythium</i> & <i>Phytophthora</i> sp.	1
		<i>Alternaria</i> sp.	1
		<i>Phyllosticta</i> sp.	1
	Xyellela (questionable)	<i>Xyellela fastidiosa</i>	1
	No Disease		5
	Unknown		13
	LSREP		15
Cherry C = 0 H = 1	Shot Hole	<i>Blumeriella jaapii</i>	1
Citrus C = 3 H = 1		<i>Cercospora</i> sp.	1
	No Disease		2
	No Sample Sent		1
Fig C = 0 H = 3	Anthrachnose		1
	Secondary Organisms		1
	LSREP		1
Grape, Wine C = 5 H = 1	Bitter Rot	<i>Melanconium fuligineum</i>	1
		<i>Botrytis</i> sp.	1
	No Disease		4
Muscadine C = 2 H = 1	Root Rot	<i>Pythium</i> sp.	1
		<i>Phytophthora</i> sp.	1
	No Disease		1
Peach C = 1 H = 1	Brown Rot	<i>Monilinia fructicola</i>	1
	No Disease		1
Pear, Pineapple C = 0 H = 1	LSREP		1

Host	Disease	Causal Organism	Samples
Pecan C = 5 H = 0	Unknown No Disease		2 3
Persimmon C = 3 H = 0	Leaf Spot No Disease Unknown	<i>Cercospora</i> sp.	1 1 1
Plum C = 0 H = 3	Canker Shot Hole LSREP	<i>Blumeriella jaapii</i>	1 1 1
Pomegranate C = 2 H = 3	Fruit Rot Heart Rot LSREP	<i>Pestalotia</i> sp.	2 1 1 1
Ribes C = 0 H = 1	LSREP		1
Strawberry C = 19 H = 0	Leaf Spot Root Rot Root Rot Root Rot Crown Rot Leaf Spot, Bacterial Root & Crown Rot Seedling & Basal Stem Rot Anthracnose (Possible) No Disease LSREP	<i>Mycosphaerella</i> sp. <i>Phytophthora</i> sp. <i>Pythium</i> sp. <i>Phytophthora</i> sp. <i>Xanthomonas</i> sp. <i>Rhizoctonia</i> sp. <i>Rhizoctonia</i> sp. <i>Phomopsis</i> sp. <i>Pythium</i> sp. <i>Botrytis</i> sp. <i>Phytophthora</i> sp.	1 2 1 1 2 1 1 1 1 1 2 1 1 1 2 1

Herbaceous Ornamentals
(Total Diagnoses: C = 87; H = 47)

Diagnostic Responsibilities: Athens Clinic: All Samples (Commercial and Homeowner)

Host	Disease	Causal Organism	Samples
Agapanthus C = 1 H = 0	Soft Rot, Bacterial	<i>Erwinia carotovora</i>	1
Agalinis C = 1 H = 0	No Disease		1
Ajuga C = 2 H = 0	Crown & Root Rot Crown Rot	<i>Phoma</i> sp. <i>Phoma</i> sp.	1 1
Amaryllis C = 0 H = 1	No Disease		1
Argyranthemum C = 1 H = 0	Crown Gall	<i>Agrobacterium tumefaciens</i>	1
Acorus C = 0 H = 1	No Disease		1
Begonia C = 2 H = 2	Stem & Root Rot Root Rot No Disease	<i>Fusarium</i> sp. <i>Pythium</i> sp. <i>Pythium</i> sp.	1 1 1 1
Bromeliad C = 0 H = 1	Insufficient Sample		1
Cactus C = 0 H = 3	Sooty Mold No Disease LSREP		1 1 1
Calibrochoa C = 1 H = 0		<i>Pythium</i> sp. & <i>Rhizoctonia</i> sp.	1
Callicarpa C = 1 H = 0	No Disease		1
Clematis C = 0 H = 1	No Disease		1
Chrysanthemum C = 6 H = 0	Root Rot Stem Rot No Disease	<i>Pythium</i> sp. <i>Fusarium</i> sp.	2 1 3
Coleus C = 0 H = 1	Downy Mildew	<i>Peronospora</i> sp.	1
Dahlia C = 1 H = 0	Stem Rot	<i>Rhizoctonia</i> sp.	1
Daylily C = 2 H = 1	Crown Rot Root Rot No Disease	<i>Rhizoctonia</i> sp. <i>Pythium</i> sp. & <i>Fusarium</i> sp.	1 1 1

Host	Disease	Causal Organism	Samples
Euphorbia C = 1 H = 0	Root Rot	<i>Pythium</i> sp.	1
Fern C = 1 H = 2	No Disease		3
Geranium C = 2 H = 0	No Disease		2
Helleborus C = 1 H = 2	Crown Rot Downy Mildew	<i>Phytophthora</i> sp. <i>Peronospora pulveracea</i> <i>Cladosporium</i> sp.	1 1 1
Heuchera C = 2 H = 0	Root Rot No Disease	<i>Pythium</i> sp. & <i>Phytophthora</i> sp.	1 1
Hollyhock C = 0 H = 2	Rust	<i>Puccinia malvacearum</i>	2
Hosta C = 14 H = 0	Anthracnose Virus Virus No Disease	<i>Colletotrichum</i> sp. Tomato Spotted Wilt Hosta Virus X	1 1 6 6
Houseplants, Misc. C = 0 H = 1	No Disease		1
Impatiens C = 6 H = 0	Crown Rot Root Rot Nematode Damage No Disease	<i>Rhizoctonia</i> sp. <i>Pythium</i> sp. & <i>Rhizoctonia</i> sp. <i>Meloidogyne</i> sp.	1 1 1 3
Iris C = 2 H = 3	Leaf Spot Virus Virus Virus LSREP	<i>Heterosporium iridis</i> Tobacco Ringspot Poty Possible	1 1 1 1 1
Ivy C = 1 H = 5	Leaf Spot, Bacterial Anthracnose Root Rot	<i>Xanthomonas campestris</i> pv. <i>hedera</i> <i>Colletotrichum</i> sp. <i>Phytophthora</i> sp. <i>Macrophoma</i> sp. <i>Pythium</i> sp. and Clamp Fungi	1 1 1 1 1
Kalanchoe C = 1 H = 0	No Disease		1
Kale, Ornamental C = 1 H = 0	Wire Stem	<i>Rhizoctonia</i> sp.	1
Liriope C = 7 H = 2	Crown Rot Anthracnose Crown Rot Crown Rot Root Rot No Disease	<i>Fusarium</i> sp. <i>Colletotrichum</i> sp. <i>Fusarium</i> sp. & <i>Rhizoctonia</i> sp. <i>Phytophthora palmivora</i> <i>Pythium</i> sp. & <i>Phytophthora</i> sp.	2 2 1 1 1 2
Miscanthus C = 0 H = 1	No Disease		1

Host	Disease	Causal Organism	Samples
Mondo Grass C = 2 H = 0	Anthrachnose No Disease	<i>Colletotrichum</i> sp.	1 1
Monkey Face C = 0 H = 1	No Disease		1
Orchid C = 4 H = 0	Crown & Root Rot Root Rot Root Rot No Disease	<i>Fusarium</i> sp. <i>Pythium</i> sp. & <i>Rhizoctonia</i> sp. <i>Pythium</i> sp.	1 1 1 1
Osteospermum C = 1 H = 0	Crown Rot	<i>Rhizoctonia</i> sp.	1
Pachysandra C = 0 H = 3	Stem Lesion Leaf Spot Unknown	<i>Rhizoctonia</i> sp. <i>Volutella</i> sp.	1 1 1
Panicum C = 1 H = 0	Leaf Rust	<i>Puccinia</i> sp.	1
Pansy C = 5 H = 1	Crown & Stem Rot Black Root Rot No Disease	<i>Botrytis</i> sp. <i>Thielaviopsis</i> sp.	1 2 3
Penta C = 2 H = 0	Root Rot No Disease	<i>Phytophthora</i> sp.	1 1
Petunia C = 1 H = 3	Blight Root Rot	<i>Botrytis</i> sp. <i>Pythium</i> sp. & <i>Rhizoctonia</i> sp. <i>Rhizoctonia</i> sp. <i>Pythium</i> sp.	1 1 1 1
Phlox C = 1 H = 0	No Disease		1
Poinsettia C = 3 H = 0	Stem Rot No Disease	<i>Phytophthora</i> sp.	1 2
Sansevieria C = 1 H = 0	Crown Rot	<i>Fusarium</i> sp.	1
Sarracenia C = 2 H = 0	No Disease	<i>Penicillium</i> sp.	1 1
Scaveola C = 1 H = 0	Root Rot	<i>Pythium</i> sp. & <i>Phytophthora</i> sp.	1
Schefflera C = 0 H = 1	Bacterial or Viral (Possible)		1
Snapdragon C = 1 H = 1	Rust Root Rot	<i>Puccinia</i> sp. <i>Pythium</i> sp.	1 1
Streptocarpus C = 2 H = 0	No Disease		2
Tulip C = 0 H = 3	LSREP	<i>Botrytis</i> sp. <i>Penicillium</i> sp. Cold Damage	1 1 1

Host	Disease	Causal Organism	Samples
Thrift C = 0 H = 1	Web Blight	<i>Rhizoctonia</i> sp.	1
Verbena C = 1 H = 0	No Disease		1
Vinca C = 2 H = 1	Black Root Rot Root & Stem Rot No Disease	<i>Thielaviopsis</i> sp.	1 1 1
Zinnia C = 0 H = 3	Stem Rot Root Rot Virus	<i>Alternaria</i> sp. <i>Pythium</i> sp. Tomato Spotted Wilt	1 1 1

Trees

(Total Diagnoses: C = 80; H= 84)

Diagnostic responsibilities: Athens Clinic: All Samples (Commercial and Homeowner)

Host	Disease	Causal Organism	Samples
Birch C = 1 H = 0	LSREP		1
Cedar, Deodara C = 1 H = 0	LSREP		1
Cherry C = 0 H = 2	LSREP Unknown		1 1
Conifer C = 0 H = 1	LSREP		1
Cordyline C = 1 H = 0	No Disease		1
Crape Myrtle C = 1 H = 3	Sooty Mold No Disease LSREP		1 1 2
Cryptomeria C = 15 H = 16	Twig Blight Bot Canker Secondary Organisms No Disease LSREP	<i>Cercosporidium</i> sp. <i>Fusicoccum</i> sp. <i>Colletotrichum</i> sp. <i>Alternaria</i> sp.	1 1 1 1 4 16 7
Cypress, Leyland C = 11 H = 8	Canker Root Rot Root Rot Needle Blight Bot Canker No Disease LSREP	Possible <i>Seiridium</i> or Bot <i>Pythium</i> sp. <i>Cercosporidium</i> sp. <i>Sphaeropsis</i> sp.	5 1 1 2 1 8 1
Cupressus C = 1 H = 0	No Disease		1
Dogwood C = 0 H = 2	No Disease LSREP		1 1
Ehretia C = 1 H = 0	No Disease		1
Fagus C = 0 H = 1	Heart/Root Rot and/or Slime Flux		1
Ficus C = 1 H = 0	Leaf Spot	<i>Corynespora</i> sp.	1
Hardwoods, Misc. C = 0 H = 2		Algae Bacteria	1 1

Host	Disease	Causal Organism	Samples
Hemlock C = 0 H = 1	No Disease		1
Magnolia C = 9 H = 5	Algal Leaf Spot Powdery Mildew Root & Stem Rot No Disease LSREP LSREP Unknown	<i>Cephaleuros</i> sp. <i>Fusarium</i> sp. Transplant Shock	2 2 1 5 1 2 1
Maple C = 14 H = 15	Tar Spot Leaf Spot Anthracnose Leaf Spot Bot Canker Root Rot No Disease LSREP Unknown	<i>Rhytisma</i> sp. Bacterial <i>Gloeosporium</i> sp. <i>Cristulariella</i> sp. <i>Sphaeropsis</i> sp. <i>Phytophthora</i> sp. <i>Coenocytic hyphae</i> (Possible Oomycete)	2 1 1 1 1 1 1 17 3 1
Metasequoia C = 1 H = 0	Charcoal Rot	<i>Macrophomina phaseoli</i>	1
Myrtle C = 1 H = 0	No Disease		1
Oak C = 7 H = 13	Canker Canker Leaf Spot Wetwood No Disease LSREP LSREP Sample Sent Forward	<i>Endothiella</i> sp. <i>Nectria</i> sp. <i>Phyllosticta</i> sp. Bacterial <i>Cordyceps</i> sp. Lightning Damage To Entomology	1 1 1 1 1 7 1 6 1
Palm C = 2 H = 1	LSREP No Disease	<i>Pythium</i> sp. Transplant Shock	1 1 1
Pear C = 0 H = 2	No Disease LSREP		1 1
Pine C = 5 H = 3	Crown Rot Root Rot Root Rot No Disease LSREP	<i>Pythium</i> sp. <i>Phytophthora</i> sp. <i>Pythium</i> sp. & <i>Rhizoctonia</i> sp. Algae Bacteria Air Pollution	1 1 1 1 1 3 1
Poplar C = 0 H = 2	LSREP Unable to Diagnose		1 1
Prunus C = 1 H = 0	No Disease		1
Redbud C = 0 H = 1	No Disease		1

Host	Disease	Causal Organism	Samples
Spruce C = 0 H = 2	LSREP	<i>Calonectria</i> sp.	1 1
Thuja C = 5 H = 1	Bot Canker Root Rot Needle Blight No Disease LSREP	<i>Botryosphaeria</i> sp. <i>Cercosporidium</i> sp.	1 1 1 2 1
Unknown C = 1 H = 2	No Disease Unable to Diagnose		2 1
Vitex C = 1 H = 0	Root & Crown Rot	<i>Phytophthora</i> sp. & <i>Rhizoctonia</i> sp.	1
Yew C = 0 H = 1	LSREP		1

Woody Ornamentals
(Total Diagnoses: C = 148; H = 91)

Diagnostic Responsibilities: Athens Clinic: All Samples (Commercial and Homeowner)

Host	Disease	Causal Organism	Samples
Althea C = 1 H = 0	No Disease		1
Arborvitae C = 5 H = 1	Root Rot No Disease	<i>Phytophthora</i> sp.	1 5
Aucuba C = 3 H = 1	Anthracnose No Disease LSREP		1 1 2
Azalea C = 15 H = 5	Dieback Root Rot Root Decline Powdery Mildew Root Rot Root Rot Anthracnose Anthracnose Root Rot Leaf Spot No Disease LSREP	<i>Botryosphaeria</i> sp. <i>Pythium</i> sp. & <i>Phytophthora</i> sp. Unknown Fungi <i>Microsphaera azaleae</i> <i>Pythium</i> sp. <i>Phytophthora</i> sp. <i>Colletotrichum</i> sp. <i>Gloeosporium</i> sp. <i>Pythium</i> sp. & <i>Rhizoctonia</i> sp. <i>Basidiomycete</i> <i>Cylindrocladium</i> sp.	1 3 1 1 2 1 1 1 1 1 1 1 4 2
Barberry C = 1 H = 0	TDTD		1
Bougainvillea C = 0 H = 1	No Disease		1
Boxwood C = 8 H = 8	Volutella Blight Root Rot Boxwood Decline Root Rot Root Rot No Disease Unknown	<i>Volutella buxi</i> <i>Pythium</i> sp. <i>Phytophthora</i> sp. <i>Pythium</i> sp. & <i>Phytophthora</i> sp.	4 2 1 1 2 5 1
Camellia C = 18 H = 10	Bot Canker Leaf Spot Root Rot Anthracnose Leaf Spot Dieback Leaf Gall No Disease LSREP Unknown	<i>Botryosphaeria</i> sp. <i>Pythium</i> sp. & <i>Rhizoctonia</i> sp. <i>Gloeosporium</i> sp. <i>Phyllosticta</i> sp. <i>Leptosphaeria</i> sp. <i>Exobasidium</i>	1 1 1 1 1 1 1 17 3 1
Chamaecyparis C = 0 H = 2	Twig Blight No Disease	<i>Phomopsis</i> sp.	1 1
Chionanthus C = 0 H = 1	Slime Flux/Wetwood		1

Host	Disease	Causal Organism	Samples
Illicium C = 4 H = 0	Leaf Spot Leaf Spot Bot Canker No Disease	<i>Cercospora</i> sp. <i>Gloeosporium</i> sp. <i>Sphaeropsis</i> sp.	1 1 1 1
Jasmine C = 2 H = 4	Leaf Spot, Bacterial Southern Blight Root Rot Root Rot LSREP	Possible <i>Sclerotium rolsfii</i> <i>Pythium</i> sp. <i>Rhizoctonia</i> sp. Possible <i>Rhizoctonia</i> sp.	1 1 1 1 1 1
Juniper C = 6 H = 6	Aerial Blight Root Rot Twig Blight Canker (Possible) No Disease LSREP Unknown	<i>Rhizoctonia</i> sp. <i>Verticillium</i> sp. <i>Pythium</i> sp. & <i>Phytophthora</i> sp. <i>Pestalotia</i> sp.	1 1 1 1 1 5 1 1
Kolkwitzia C = 1 H = 0	Root Rot	<i>Pythium</i> sp.	1
Hypericum C = 2 H = 0	Black Root Rot Root Rot	<i>Thielaviopsis</i> sp. <i>Pythium</i> sp. & <i>Rhizoctonia</i> sp.	1 1
Lantana C = 1 H = 1	Nematode Damage No Disease	<i>Meloidogyne</i> sp.	1 1
Laurel, Cherry C = 0 H = 2	Black Root Rot Shot Hole	<i>Thielaviopsis basicola</i> <i>Scolytus rugulosus</i>	1 1
Lavandula C = 1 H = 0	Root Rot	<i>Pythium</i> sp. & <i>Rhizoctonia</i> sp.	1
Leucothoe C = 1 H = 2	Root Rot Powdery Mildew LSREP	<i>Pythium</i> sp. <i>Erysiphe vaccinii</i>	1 1 1
Ligustrum C = 4 H = 3	Leaf Spot Wood Rotting Fungi Sooty Mold No Disease LSREP	<i>Cercospora</i> sp. <i>Armillaria</i> sp.	1 1 1 3 1
Loropetalum C = 1 H = 0	TDTD		1
Mahonia C = 1 H = 0	Root Rot	<i>Pythium</i> sp.	1
Nandina C = 3 H = 0	Stem & Root Rot Root Rot Leaf Spot	<i>Rhizoctonia</i> sp. <i>Pythium</i> sp. <i>Cercospora</i> sp.	1 1 1
Physocarpus C = 1 H = 0	No Disease		1
Pieris C = 2 H = 0	Black Root Rot Root Rot	<i>Thielaviopsis basicola</i> <i>Pythium</i> sp. & <i>Rhizoctonia</i> sp.	1 1

Host	Disease	Causal Organism	Samples
Pittosporum C = 1 H = 0		<i>Coenocytic hyphae</i> (Possible Oomycete)	1
Rhaphiolepis C = 3 H = 3	Leaf Spot Leaf Spot Root Rot No Disease TDTD	<i>Entomosporium</i> sp. <i>Cercospora</i> sp. <i>Pythium</i> sp. & <i>Phytophthora</i> sp.	2 1 1 1 1
Rhododendron C = 2 H = 2	Root Rot No Disease		1 3
Rose C = 12 H = 9	Root Rot Black Spot Leaf Spot Wilt Root Rot Root Rot Downy Mildew No Disease LSREP Unknown	Possible <i>Armillaria</i> <i>Marssonina rosea</i> <i>Cercospora</i> sp. <i>Verticillium dahliae</i> <i>Rhizoctonia</i> sp. <i>Phytophthora</i> sp. <i>Peronospora sparsa</i> <i>Alternaria</i> sp.	1 2 1 2 1 1 1 1 1 7 3 1
Spirea C = 0 H = 1	TDTD		1
Tea Olive C = 1 H = 0	No Disease		1
Unknown C = 0 H = 2	No Disease LSREP	Transplant Shock	1 1
Viburnum C = 6 H = 3	Root Rot No Disease LSREP	<i>Pythium</i> sp. & <i>Phytophthora</i> sp.	1 7 1

Turf and Forage Grasses
(Total Diagnoses: C = 400; H = 195)

Diagnostic Responsibilities: Athens Clinic: All samples (Commercial and Homeowner)

Host	Disease	Causal Organism	Samples
Bentgrass C = 80 H = 0	Anthracnose (Basal Rot)	<i>Colletotrichum</i> sp.	23
	ETRI		2
	ETRI	<i>Magnaporthe poae</i> or GGG	3
	Summer Patch	<i>Magnaporthe</i> sp.	1
		<i>Pythium</i> sp.	21
		<i>Rhizoctonia</i> sp.	8
		Algae	3
		GGG	1
	Nematode Damage	Suspect or Recommend Check	8
	Sulfides/Anaerobic Conditions		5
	No Disease		5
Bermuda C = 88 H = 23	Brown Patch	<i>Rhizoctonia</i> sp.	3
	Large Patch	<i>Rhizoctonia</i> sp.	4
	Rust	<i>Puccinia</i> sp.	2
	ETRI		7
	Take-all	GGG	24
	Dollar Spot	<i>Sclerotinia homeocarpa</i>	1
	SDS	Possible	1
	Bermuda Decline		3
	Rust	<i>Puccinia cynodontis</i>	1
		<i>Helminthosporium</i> sp.	4
		<i>Pythium</i> sp.	12
		<i>Rhizoctonia</i> sp.	16
		<i>Bipolaris</i> sp.	9
		<i>Colletotrichum</i> sp.	3
		<i>Curvularia</i> sp.	4
		<i>Cladosporium</i> sp.	1
		<i>Sclerotinia homeocarpa</i>	1
	Saprophyte		1
	No Disease		9
	Insufficient Sample		1
	TDTD		4
Bluegrass C = 0 H = 1	ETRI		1
Centipede C = 66 H = 57	Take-all	GGG	42
	Fairy Ring	Possible	10
	Large Patch	<i>Rhizoctonia</i> sp.	5
	ETRI		2
	Root Rot	<i>Rhizoctonia</i> sp.	2
	Gray Leaf Spot	<i>Pyricularia</i> sp.	1
	Anthracnose	<i>Colletotrichum</i> sp.	1
	Fairy Ring		1
		<i>Curvularia</i> sp.	7
		<i>Colletotrichum</i> sp.	4
		<i>Rhizoctonia</i> sp.	17
		<i>Bipolaris</i> sp.	2
		<i>Pythium</i> sp.	4
		Clamp Fungi	1
	No Disease		21
	LSREP		1
	Insufficient Sample		1
	TDTD		1

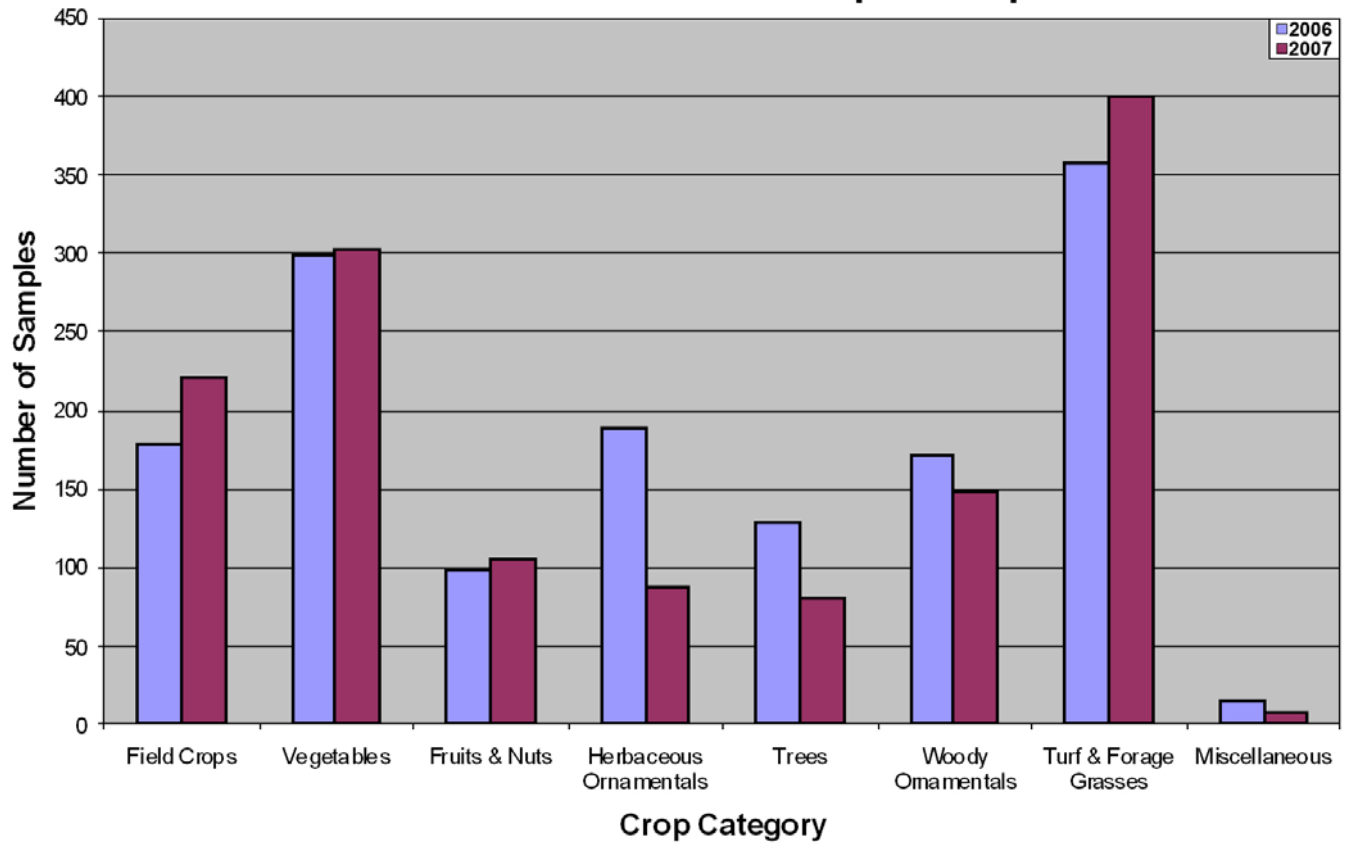
Host	Disease	Causal Organism	Samples
Fescue C = 8 H = 4	Brown Patch	<i>Rhizoctonia</i> sp.	1
	ETRI		1
	Nematode Damage		1
		<i>Rhizoctonia</i> sp.	2
		<i>Pythium</i> sp.	3
		<i>Colletotrichum</i> sp.	1
	No Disease		2
	Unable to Diagnose		1
Grass C = 1 H = 16	Rust	<i>Puccinia</i> sp.	1
	Take-all	GGG	8
	Anthrachnose	<i>Gloeosporium</i> sp.	1
	Large Patch	<i>Rhizoctonia</i> sp.	1
		<i>Rhizoctonia</i> sp.	1
		<i>Curvularia</i> sp.	3
	No Disease		1
	TDTD		1
Greens C = 28 H = 0	Summer Patch		2
	ETRI		3
		<i>Rhizoctonia</i> sp.	3
		<i>Pythium</i> sp.	12
		<i>Magnaporthe poae</i>	3
		<i>Colletotrichum</i> sp.	4
	Nematode Damage		1
Lawn C = 0 H = 7	Earth Stars	Gasteromycetes	1
	Take-all	GGG	2
		<i>Drechslera</i> sp.	1
		Clamp Fungi	1
	No Disease		1
	LSREP		1
Paspalum, Seashore C = 16 H = 0	Anthrachnose		1
		<i>Rhizoctonia</i> sp.	7
		GGG	4
		<i>Curvularia</i> sp.	1
		<i>Bipolaris</i> sp.	3
Ryegrass C = 2 H = 0		<i>Pythium</i> sp.	2
St. Augustine C = 50 H = 49	Take-all	GGG	61
	Slime Mold		1
	Root Rot	<i>Pythium</i> sp.	1
	Root Rot	<i>Rhizoctonia</i> sp.	1
	Large Patch	<i>Rhizoctonia</i> sp.	4
	ETRI-mycelium		1
	Anthrachnose	<i>Colletotrichum</i> sp.	2
	Fairy Ring		2
		<i>Curvularia</i> sp.	5
		<i>Bipolaris</i> sp.	3
		<i>Pythium</i> sp.	4
		<i>Rhizoctonia</i> sp.	7
		<i>Drechslera</i> sp.	1
		Fungal mass	1
	No Disease		3
	Unable to Determine		1
	Insufficient Sample		2
Sod C = 1 H = 0		<i>Basidiomycete</i>	1

Host	Disease	Causal Organism	Samples
Turf C = 3 H = 9	Large Patch	<i>Rhizoctonia</i> sp.	3
	Take-all	GGG	4
		<i>Curvularia</i> sp.	1
	Nematode Damage	<i>Pythium</i> sp.	1
	No Disease	Suspect	1
			3
Unknown C = 0 H = 2	Take-all	GGG	1
		<i>Curvularia</i> sp.	1
Zoysia C = 57 H = 27	Large Patch	<i>Rhizoctonia</i> sp.	5
	Rust	<i>Puccinia zoysia</i>	2
	Take-all	GGG	12
	ETRI	<i>Pythium</i> sp.	3
	Root Rot		2
	Fairy Ring		5
		<i>Rhizoctonia</i> sp.	11
		<i>Bipolaris</i> sp.	6
		<i>Curvularia</i> sp.	8
		<i>Colletotrichum</i> sp.	3
		<i>Rhizoctonia solani</i>	1
		<i>Pythium</i> sp.	2
		Clamp Fungi	1
		Stress Fungi	1
	No Disease		17
	Unknown		1
	Insufficient Sample		1
	TDTD		3

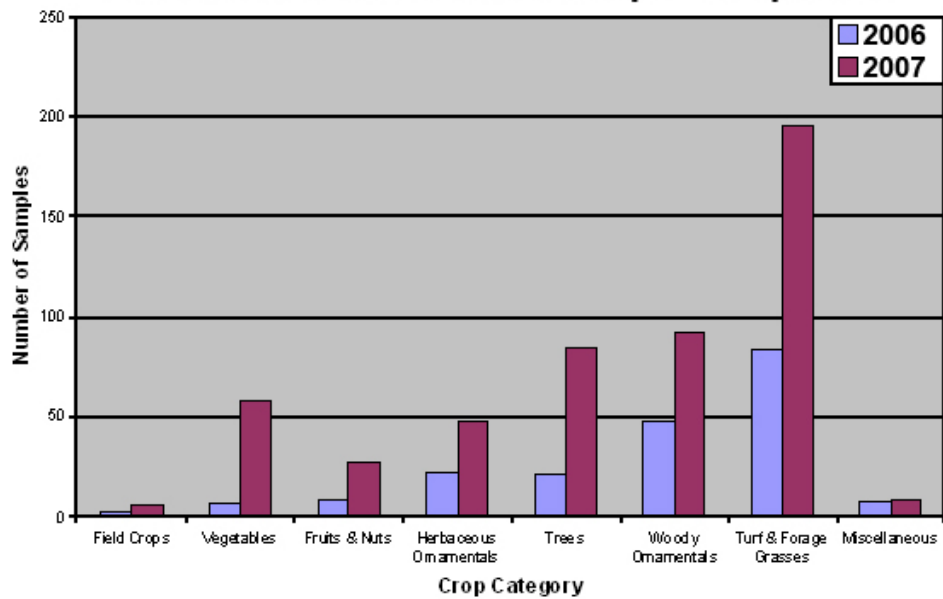
Miscellaneous
(Total Diagnoses: C = 7; H = 8)

Host	Disease	Causal Organism	Samples
Fungal ID	Conk	Wood Rot Fungi	1
C = 1	Mushroom	<i>Fuligo septica</i>	1
H = 2	ID of Fungi on Soil Surface	<i>Chromelosporium</i> sp.	1
Misc. Unknown	Various Cuttings	LSREP Cold/Drought Stress	1
C = 6	Unknown	Insect Galls	1
H = 4	Wood	<i>Stemonitis</i> sp.	1
	Leaf Spot	<i>Cercospora</i> sp.	4
	No Disease		1
	Unknown		1
	TDTD		1
Plant ID	Plant ID	<i>Zoysia</i> sp.	1
C = 0	Plant ID	<i>Sida rhombifolia</i>	1
H = 2			

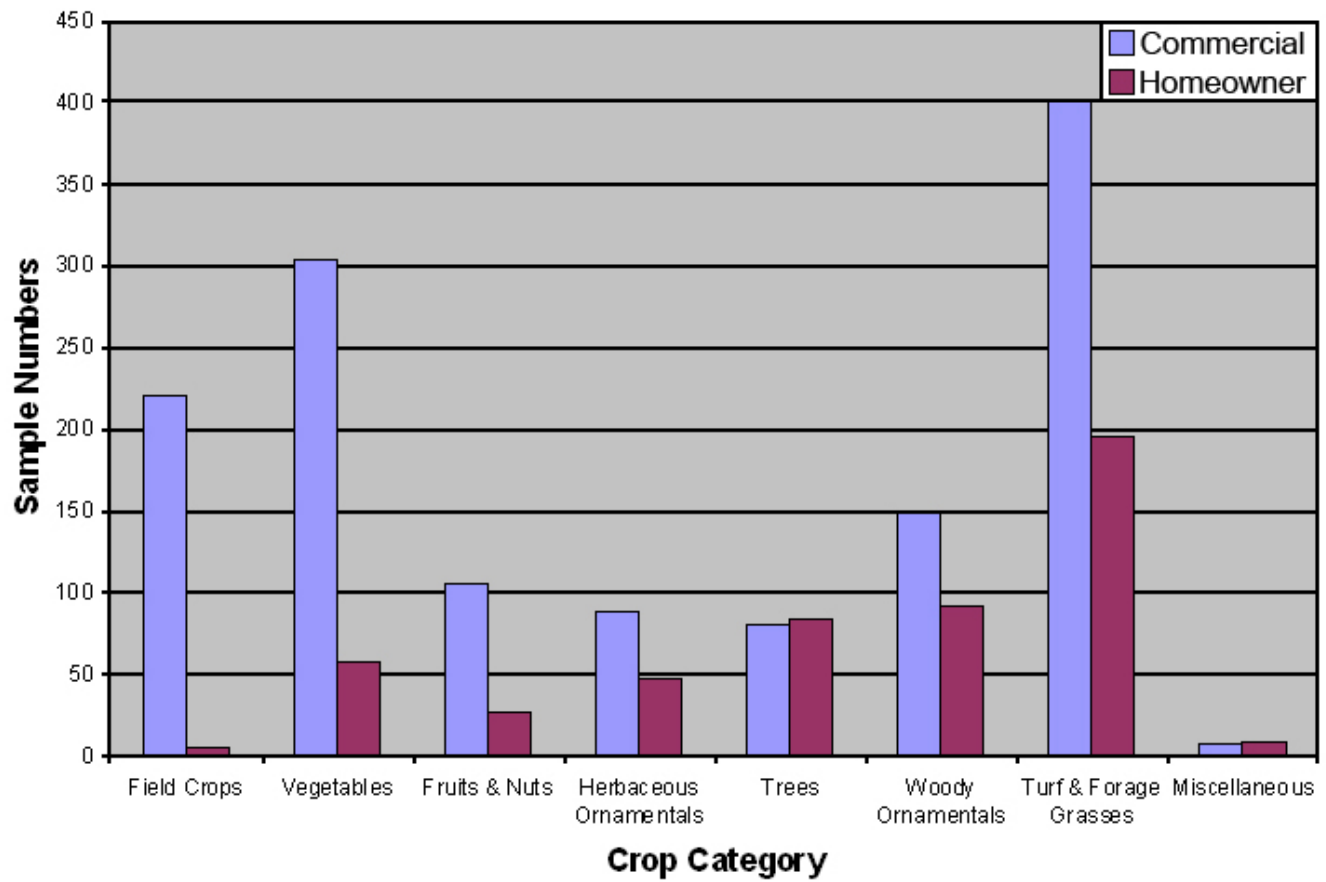
2006 vs. 2007 Commercial Sample Comparison



2006 vs. 2007 Homeowner Sample Comparison



2007 Commercial vs. Homeowner Sample Comparison



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