

**The Plant Disease Clinic and Weed Identification Laboratory
2003 Annual Report**

Table of Contents

Acknowledgements	ii
Introduction	iii
Plant Disease Clinic Summaries	
Monthly Submission Report	1
Crop Category Report	2
Diagnostic Category Report	3
Samples by Diagnostic Category	3
Plant Pathogens, Other Assistance	4
Other Agents	4
Distribution of Samples by County	5
Samples by District	6
Samples by Submitter Type.....	6
Weed Identification Lab Summaries	
Monthly Submission Report	7
Sample Totals by Crop	7
Distribution of Samples by County.....	8
Summary of Diagnoses by Plant	
Field Crops	9
Herbaceous Ornamentals and Indoor Plants	12
Small Fruits	21
Trees	23
Tree Fruits and Nuts	31
Turf	34
Vegetables and Herbs	36
Weeds	40
Woody Ornamentals	41
Woody Ornamentals	49
Summary of Plant Identifications	50

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The Plant Disease Clinic depends on a industrious staff of both full-time and part-time employees to prepare culture media, isolate pathogens from plant tissue, measure soil pH, extract nematodes from soil and plant tissue, maintain records, answer the telephone, keep track of samples, and send out reports. In 2003, diagnoses in the Plant Disease Clinic in Blacksburg were performed by Mary Ann Hansen, and Nina Hopkins, with valuable assistance from Shannon Hill.

Plant Clinic staff consult with many faculty and staff in various departments in order to make complete, accurate diagnoses and recommendations. We would like to thank the following people for their helpful assistance during the past year:

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The Weed Identification Clinic is operated by Dr. Scott Hagood with the assistance of Mr. Josh Beam and Mr. Lloyd Hipkins. Mr. Tom Wieboldt, curator of the Herbarium in the Biology Department, performs many of the plant and weed identifications.

We would also like to thank Mr. Todd Powell of TSP Software for designing and continuing to support the Plant Clinic database ("PClinic"). The database has given us the ability to keep complete records of Plant Clinic samples and to mail reports to Extension Offices electronically. Information on purchasing PClinic can be obtained from the Clinic at <clinic@vt.edu>. We are also especially grateful to Mr. Shahrooz Feizabadi for maintaining our computer system and network.

Andrea Lowe and Shannon Hill painstakingly compiled the annual report. It can be viewed on-line at <<http://oak.ppws.vt.edu/~clinic/info.html>>.

Introduction

The annual report for the Plant Disease Clinic and the Weed Identification Clinic located on the Virginia Tech campus in Blacksburg is presented in the following pages. Results of the soil assays performed by the Nematode Assay Laboratory are not included, nor are plant specimens which were submitted to and diagnosed at the Agricultural Research and Extension Centers throughout the Commonwealth. Note that the number of diagnoses performed was higher than the number of samples received because some samples have more than one problem.

For those pathogens that could be identified to species or for which only one species is known to occur on the host plant in question, the species name is listed. For those diseases in which one of several species could have been involved, the epithet is listed as "sp." The Plant Disease Clinic did not routinely identify pathogenic organisms to species since species identification can sometimes be a very time-consuming process and often has little bearing on control recommendations. Most pathogens were assumed to be disease incitants if they were cultured in sufficient numbers from the plant tissue, if they were reported in the literature to be pathogens of the particular host plant, and if they were reported to cause the observed symptoms.

Viral problems were, for the most part, diagnosed by the ELISA (Enzyme-Linked Immunosorbent Serological Assay) method by Agdia, Inc. or by Agdia's immunostrip testing system. Host inoculation was also used to identify viruses in some specimens. In some cases, identification of the specific virus was not desired by the client. In those cases, if symptoms indicated a virus infection, the diagnosis is listed simply as "virus".

Nematode diseases were diagnosed by extracting nematodes from soil or plant tissue. Samples must include at least 1 pint of soil for nematode assays. Nematode assays were routinely performed on samples of plant species known to be affected by nematodes, e. g. boxwood. Nematode populations in the sample were compared to damage threshold levels in making a control recommendation. Threshold levels have been developed in research trials for many, but not all, crops grown in VA.

The phrase "Cause of Problem Unknown" is used for specimens for which no pathogen could be isolated and for which no obvious environmental or cultural condition could be associated with the problem. Trees have more specimens in this category and in the category "Insufficient Sample" than any other type of plant. Tree problems are more difficult to diagnose in a clinic setting than problems of annual plants for several reasons. First, tree problems often develop over the course of several years and current symptoms may be related to stressful conditions that occurred in previous years. Also, it is difficult for growers to supply an appropriate plant specimen for diagnosis since the causes of many tree diseases occur in the trunk or roots.

Some insect problems are also listed in this report. Insect damage is often mistaken for disease, and samples with insect damage are sometimes submitted to the Plant Disease Clinic rather than the Insect Identification Lab. We make a preliminary diagnosis of insect damage on these samples and refer them to Mr. Eric Day in the Insect Identification Lab. The final diagnosis on all samples of insect damage is performed by Mr. Day.

Reports are now mailed electronically to the Extension Office email address. Upon request, we will simultaneously send electronic reports to one or more individual Extension personnel. Since implementing electronic mailing, we have discontinued faxing reports. For the time being, we are continuing to send a copy of the original diagnostic form submitted by the agent back to the Extension office through the Extension Distribution Center if a diagnostic form with carbon copies is submitted with the sample. Any factsheets or additional printed information is attached to this form. The new diagnostic forms available through the Extension Distribution Center do not have carbon copies. For samples submitted with these forms, we send out only the electronic report. Any comments or questions about reports or plant problems can be emailed to us at <clinic@vt.edu>.

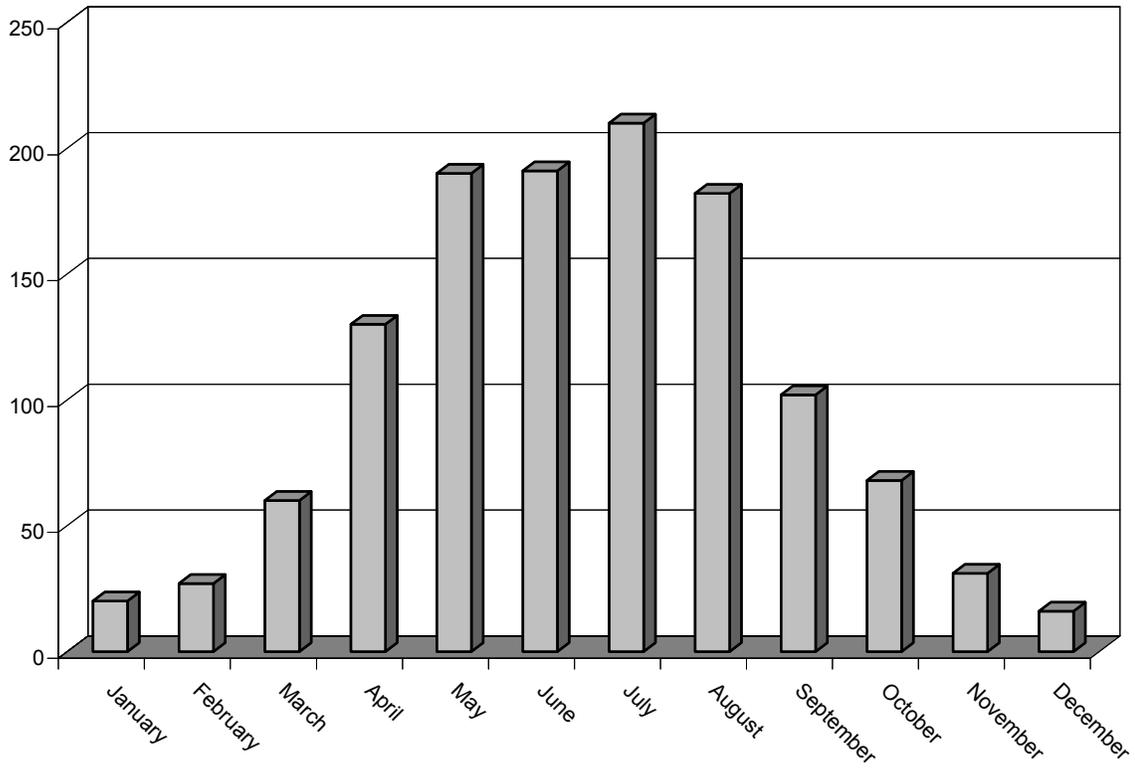
For information on how to submit samples and complete the appropriate forms, please refer to the following web site for an audiovisual web presentation: <http://www.ext.vt.edu/vce/staffdev/anrtraining/>

Plant Disease Clinic

**Monthly Submission Report
Number of Samples Received by Month
2003**

Month	# of Samples
January	20
February	27
March	60
April	130
May	190
June	191
July	210
August	182
September	102
October	68
November	31
December	16
Total	1227

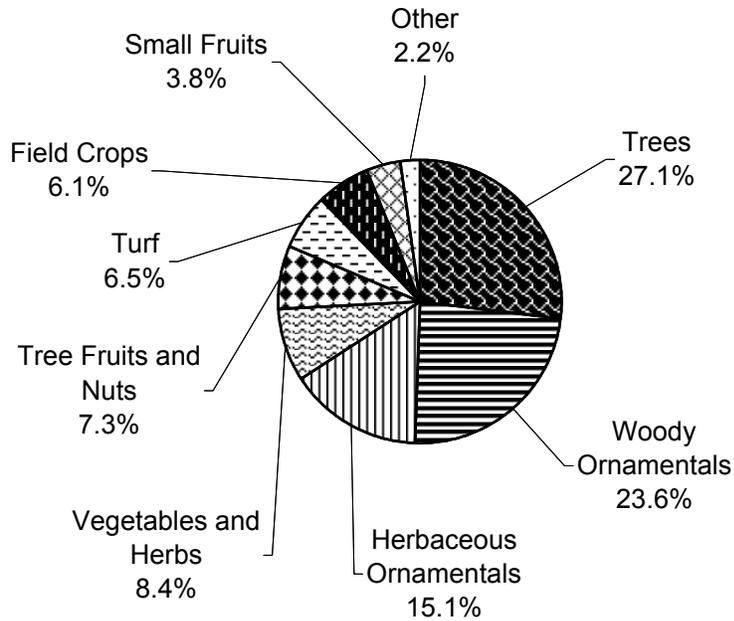
Number of Samples by Month



**Crop Category Report
Sample Totals by Major Crop
2003**

Crop	# of Samples	% of Total
Trees	333	27.1
Woody Ornamentals	290	23.6
Herbaceous Ornamentals	185	15.1
Vegetables and Herbs	103	8.4
Tree Fruits and Nuts	90	7.3
Turf	80	6.5
Field Crops	75	6.1
Small Fruits	47	3.8
Other	24	2.2
Total	1227	100%

Samples by Crop Category

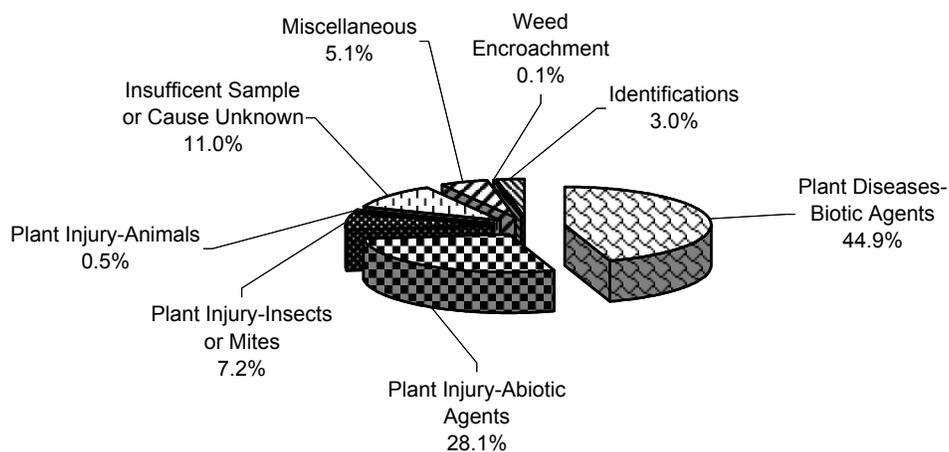


Plant Disease Clinic

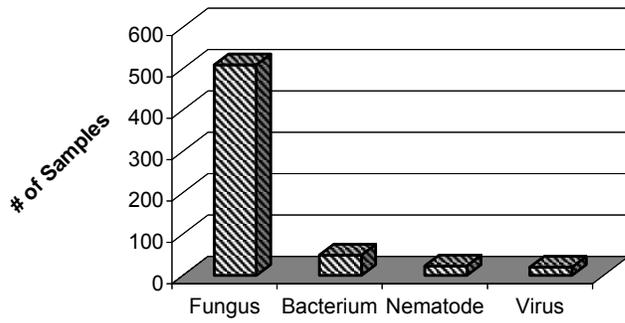
Diagnostic Category Report
Distribution of Diagnoses by Major Diagnostic Category
2003

	# of Diagnoses	% of Total
Plant Diseases-Biotic Agents	601	44.9
Bacterium (49)		
Fungus (509)		
Nematode (23)		
Virus (20)		
Plant Injury-Abiotic Agents	376	28.1
Chemical (61)		
Environmental/cultural (307)		
Mechanical (8)		
Plant Injury-Insects or Mites	97	7.2
Insects Or Mites (97)		
Plant Injury-Animals	7	0.5
Birds (1)		
Mammals (6)		
Insufficient Sample or Cause Unknown	148	11
Insufficient Sample Or Information (136)		
Unknown (12)		
Miscellaneous	62	5.1
Normal Condition (10)		
Other (34)		
Physiological/genetic (18)		
Weed Encroachment	2	0.1
Weed (2)		
Identifications	40	3
Algae (1)		
Fungi (15)		
Plant (21)		
Unable To Identify (3)		
Total	1340	100%

2003 Samples by Diagnostic Category



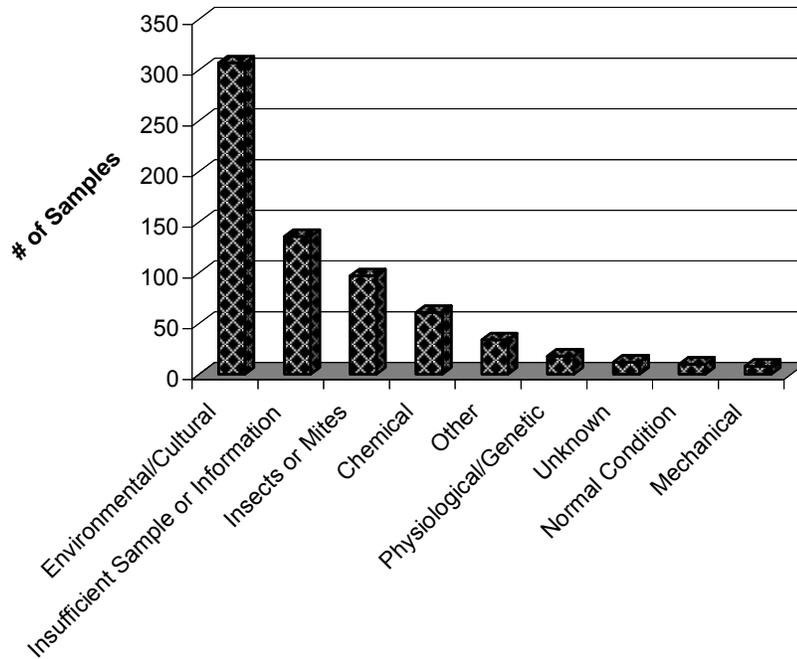
Plant Pathogens, 2003



Other Assistance, 2003

Type	# of Inquiries
E-mail	67
Digital Images	160
Phone Calls	13

Other Agents, 2003

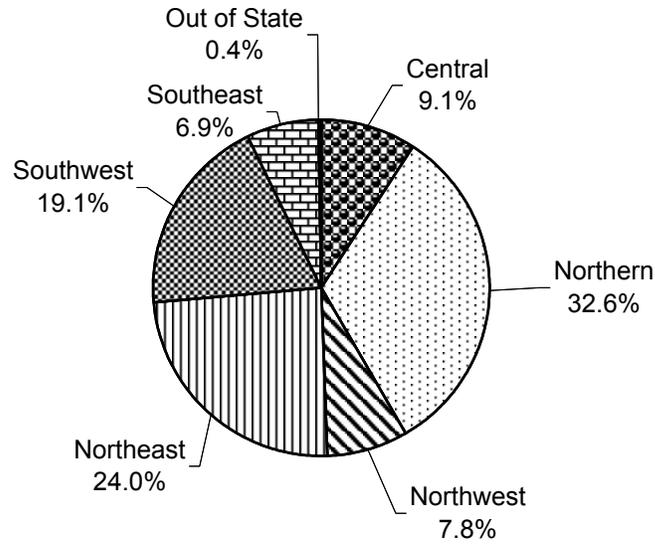


Plant Disease Clinic
Distribution of Samples by County
2003

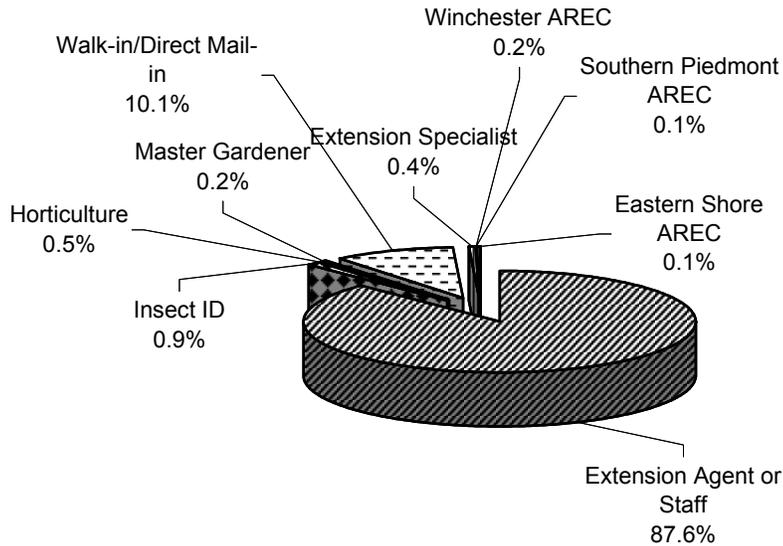
County	# of Samples	County	# of Samples
Accomack	2	Lancaster	7
Albemarle	42	Lee	10
Alexandria (IC)	1	Loudoun	28
Alleghany	3	Louisa	6
Amelia	2	Lunenburg	2
Amherst	3	Lynchburg (IC)	31
Appomattox	2	Madison	6
Arlington	31	Mathews	3
Augusta	14	Mecklenburg	2
Bath	2	Middlesex	18
Bedford	11	Montgomery	88
Bland	5	Nelson	67
Botetourt	5	New Kent	8
Brunswick	4	Newport News (IC)	8
Buckingham	2	Norfolk (IC)	5
Campbell	7	Northampton	3
Caroline	7	Northumberland	18
Carroll	9	Nottoway	2
Charles City	1	Orange	9
Charlotte	1	Page	3
Chesapeake (IC)	19	Patrick	2
Chesterfield	1	Pittsylvania	9
Clarke	12	Portsmouth (IC)	3
Craig	4	Powhatan	12
Culpeper	2	Prince Edward	6
Cumberland	3	Prince George	26
Danville (IC)	11	Prince William	11
Dickenson	6	Pulaski	6
Essex	9	Rappahannock	5
Fairfax	36	Richmond (IC)	2
Fauquier	12	Roanoke	20
Floyd	33	Rockbridge	5
Fluvanna	16	Rockingham	6
Franklin	5	Russell	1
Frederick	6	Scott	9
Giles	7	Shenandoah	10
Gloucester	6	Smyth	2
Goochland	11	Spotsylvania	12
Grayson	5	Stafford	90
Greene	3	Suffolk (IC)	6
Halifax	3	Surry	1
Hampton (IC)	5	Sussex	3
Hanover	27	Tazewell	8
Henrico	19	Virginia Beach (IC)	13
Henry	6	Warren	2
Highland	4	Washington	22
Isle of Wight	4	Westmoreland	22
James City	79	Wise	11
King and Queen	1	Wythe	7
King George	16	York	31
King William	7	Out-of-state	5
		Total	1227

Plant Disease Clinic

2003 Samples by District



Samples by Submitter Type, 2003



Weed Identification Lab

**Monthly Submission Report
Number of Samples Received by Month
2003**

Month	# of Samples
January	3
February	3
March	19
April	26
May	36
June	36
July	30
August	43
September	40
October	30
November	12
December	6
Total	284

**Sample Totals by Crop
2003**

Crop	# of Samples
Corn	3
Wheat/Barley/Oats	6
Soybeans	10
Pasture	44
Turf	86
Aquatic	23
Fallow	18
Flower bed/Garden	22
Alfalfa/Hay	26
Fruits	2
Forest	8
Roadside	3
None Given	33
Total	284

Weed Identification Lab

Distribution of Samples by County 2003

County	# of Samples	County	# of Samples
Albemarle	12	Lynchburg	17
Amelia	1	Mecklenburg	1
Amherst	2	Montgomery	23
Appomatox	1	Nelson	1
Augusta	5	New Kent	5
Bedford	2	Northumberland	3
Bland	2	Nottoway	1
Botetourt	6	Pittsylvania	9
Brunswick	1	Powhatan	16
Buckingham	1	Prince Edward	2
Campbell	3	Prince George	2
Caroline	1	Prince William	1
Clarke	2	Pulaski	1
Craig	3	Rappahanack	3
Cumberland	1	Richmond	2
Dickenson	14	Roanoke	3
Essex	1	Rockbridge	3
Fairfax	1	Rockingham	3
Fauquier	2	Russell	2
Fluvanna	2	Shendoah	5
Frederick	2	Smyth	2
Goochland	3	Spotsylvania	9
Greene	1	Stafford	1
Halifax	1	Surry	1
Hampton	1	Sussex	4
Hanover	5	Tazewell	4
Henrico	1	Warren	5
Henry	4	Washington	13
Highland	2	Westmoreland	15
James City	6	Williamsburg	1
King + Queen	2	Winchester, VA	1
King George	1	Wise	6
King William	1	Wythe	5
Lancaster	2	York	7
Lee	4	None given	4
Loudoun	1	Out-of-State	1
Lunenburg	2	Total	284

**Summary of Diagnoses by Plant
2003**

FIELD CROPS

ALFALFA

1 Boron Deficiency	
2 Environmental Stress	
2 Leafhoppers	
6 Leptosphaerulina Leaf Spot	Leptosphaerulina briosiana
1 Rhizoctonia Stem and Leaf Blight	Rhizoctonia solani
9 Spring Black Stem and Leaf Spot	Phoma medicaginis
1 Suspect Boron Deficiency	

22 Total for Alfalfa	

BARLEY

1 Frost Injury	
1 Scab	Fusarium graminearum
1 Spot Form of Net Blotch	Pyrenophora teres

3 Total for Barley	

BLUEGRASS

1 Brown Patch	Rhizoctonia solani

1 Total for Bluegrass	

CORN

1 Chemical Injury	
1 Environmental Stress	
1 Insufficient Information	
1 Insufficient Sample	
2 Low pH	
1 Nematodes	
1 Northern Corn Leaf Spot	Cochliobolus carbonum
1 Nutrient Deficiency	
1 Red Root Rot	Pyrenochaeta terrestris
1 Soil Compaction	
1 Southern Corn Leaf Blight	Bipolaris maydis
1 Southern Rust	Puccinia polysora
1 Suspect Genetic Abnormality	
1 Zinc Deficiency	

15 Total for Corn	

Plant Disease Clinic

FESCUE

1 Environmental Stress	
1 Ergot	Claviceps purpurea
2 Insufficient Sample	
1 Scab	Fusarium sp.

5 Total for Fescue	

MILLET

1 Gray Leaf Spot	Pyricularia grisea

1 Total for Millet	

ORCHARDGRASS

1 Anthracnose	Colletotrichum graminicola
2 Insufficient Sample	
2 Leaf Streak	Cercosporidium graminis
1 Negative for Virus	
1 Powdery Mildew	Erysiphe graminis f. sp. avenae
1 Secondary Basidiomycete	

8 Total for Orchardgrass	

PEANUT

1 Chemical Injury	
1 Thrips	

2 Total for Peanut	

SOYBEAN

1 Anthracnose	Colletotrichum truncatum
1 Cause of Problem Unknown	
1 Environmental Stress	
1 Low pH	
1 Negative for Root Disease	
1 Root Knot Nematodes	Meloidogyne sp.
1 Suspect Chemical Injury	
1 Thrips	

8 Total for Soybean	

SWITCHGRASS

1 Penicillium Seedling Blight	Penicillium sp.
1 Spot Blotch	Bipolaris sorokiniana

2 Total for Switchgrass	

TIMOTHY

1 Drechslera Leaf Streak	Drechslera phlei
1 Thrips	

2 Total for Timothy	

Plant Disease Clinic

TOBACCO

1 Black Leg	<i>Erwinia carotovora</i> s. <i>atroseptica</i>
1 Suspect Black Leg	<i>Erwinia carotovora</i>

2 Total for Tobacco	

WHEAT

1 Ascochyta Leaf Spot	<i>Ascochyta tritici</i>
1 Chemical Injury	
1 Environmental Stress	
1 Fusarium Seedling Blight	<i>Fusarium moniliforme</i>
2 Insufficient Sample	
3 Negative for Black Chaff	
1 Negative for Root Disease	
2 Powdery Mildew	<i>Erysiphe graminis</i>
2 Powdery Mildew Resistant Reaction	
1 Scab	<i>Fusarium graminearum</i>
1 Sharp Eyespot	<i>Rhizoctonia solani</i>
2 Stagonospora Leaf and Glume Blotch	<i>Stagonospora nodorum</i>
1 Suspect Wheat Streak Mosaic Virus	
3 Tan Spot	<i>Pyrenophora tritici-repentis</i>
1 Wheat Spindle Streak Mosaic Virus	

23 Total for Wheat	

HERBACEOUS ORNAMENTALS AND INDOOR PLANTS

AFRICAN VIOLET

- 1 Crystalline Material
- 1 Excess Soluble Salts
- 1 Suspect Water Spots
-
- 3 Total for African Violet

AJUGA

- 1 Environmental Stress
-
- 1 Total for Ajuga

ANEMONE

- 1 Foliar Nematodes Aphelenchoides sp.
- 1 Pythium Root Rot Pythium sp.
-
- 2 Total for Anemone

ARTEMISIA

- 1 Web Blight Rhizoctonia solani
-
- 1 Total for Artemisia

BEGONIA

- 1 Insufficient Sample
- 1 Pythium Root Rot Pythium sp.
- 1 Southern Blight Sclerotium rolfsii
- 1 Suspect Chemical Injury
-
- 4 Total for Begonia

BELLFLOWER

- 1 Chemical Injury
-
- 1 Total for Bellflower

BLEEDING HEART

- 1 Tobacco Rattle Virus
-
- 1 Total for Bleeding Heart

CANDY LILY

- 1 Heterosporium Leaf Spot Heterosporium echinulatum
-
- 1 Total for Candy Lily

CANDYTUFT

- 1 Downy Mildew Peronospora parasitica
-
- 1 Total for Candytuft

Plant Disease Clinic

CERATOSTIGMA

- 1 Salt Injury
-
- 1 Total for Ceratostigma

CHRYSANTHEMUM

- 1 Bacterial Leaf Spot Pseudomonas cichorii
- 1 Low pH
- 1 Pythium Stem and Root Rot Pythium sp.
- 1 Suspect Chemical Injury
-
- 4 Total for Chrysanthemum

COLEUS

- 1 Fusarium Stem and Root Rot Fusarium sp.
- 1 Mealybugs
-
- 2 Total for Coleus

COLUMBINE

- 1 Suspect Chemical Injury
-
- 1 Total for Columbine

CORAL BELLS

- 1 Chemical Injury
-
- 1 Total for Coral Bells

COREOPSIS

- 1 Bacterial Leaf Blight Pseudomonas cichorii
- 1 Cultural Problem
- 1 Thrips
-
- 3 Total for Coreopsis

CORYDALIS

- 1 Environmental Stress
-
- 1 Total for Corydalis

DAFFODIL

- 18 Negative for Stem and Bulb Nematodes
- 1 Stem and Bulb Nematodes Ditylenchus dipsaci
-
- 19 Total for Daffodil

DAISY

- 1 Cultural Problem
-
- 1 Total for Daisy

Plant Disease Clinic

ORCHID

1 Anthracnose	Colletotrichum sp.
1 Bacterial Brown Spot	Acidovorax avenae ss. cattleyae
1 Mesophyll Cell Collapse	
1 Virus	

4 Total for Orchid	

OXALIS

1 Environmental Stress

1 Total for Oxalis

PACHYSANDRA

1 High pH	
1 Septoria Leaf Spot	Septoria pachysandrae
4 Volutella Blight	Volutella pachysandrae

6 Total for Pachysandra	

PALM

1 Excess Soluble Salts

1 Total for Palm

PANSY

1 Black Root Rot	Thielaviopsis basicola
1 Botrytis Blight	Botrytis cinerea
1 Chemical Injury	
1 Cold Injury	
1 Healthy	
1 High pH	
2 Pythium Root Rot	Pythium sp.
1 Suspect Chemical Injury	

9 Total for Pansy	

PENNISETUM

1 Environmental Stress

1 Total for Pennisetum

PEONY

1 Botrytis Blight	Botrytis cinerea
3 Cladosporium Stem and Leaf Blotch	Cladosporium paeoniae
1 Suspect Chemical Injury	
1 Suspect Nutrient Imbalance	
1 Suspect Peony Ringspot Virus	

7 Total for Peony	

Plant Disease Clinic

PETUNIA

- 1 Nutrient Deficiency
- 1 Thrips
-
- 2 Total for Petunia

PHACELIA

- 1 Insufficient Sample
-
- 1 Total for Phacelia

PHLOX

- 1 Downy Mildew
 - 2 Powdery Mildew
 -
 - 3 Total for Phlox
- Peronospora phlogina
Erysiphe cichoracearum

PHORMIUM

- 1 Suspect Vole Injury
-
- 1 Total for Phormium

PITCHER PLANT

- 1 Negative for Pythium
- 1 Suspect Chemical Injury
-
- 2 Total for Pitcher Plant

PLANT, UNKNOWN

- 1 Insects
- 1 Insufficient Sample
-
- 2 Total for Plant, Unknown

POINSETTIA

- 2 Bacterial Leaf Spot
 - 1 Chemical Injury
 - 1 Cold Injury
 - 1 Normal Condition
 - 1 Nutrient Deficiency
 -
 - 6 Total for Poinsettia
- Xanthomonas campestris pv. poinsett.

PRIMROSE

- 2 Physiological Response
-
- 2 Total for Primrose

PRIVET

- 2 Winter Injury
-
- 2 Total for Privet

Plant Disease Clinic

SOLOMON'S SEAL

1 Fusarium on Roots

Fusarium oxysporum

1 Total for Solomon's Seal

SPATHIPHYLLUM

2 Cultural Problem

2 Total for Spathiphyllum

SPIDER PLANT

1 Cultural Problem

1 Total for Spider Plant

SPIDERWORT

1 Cause of Problem Unknown

1 Total for Spiderwort

STOKESIA

2 Physiological Problem

2 Total for Stokesia

SUNFLOWER

1 Rhizoctonia Stem Canker

Rhizoctonia sp.

1 Total for Sunflower

VERBENA

1 Bacterial Blight

Pseudomonas cichorii

1 Cause of Problem Unknown

1 Chemical Injury

1 Impatiens Necrotic Spot Virus

1 Pythium Root Rot

Pythium sp.

1 Suspect Fertilizer Burn

6 Total for Verbena

YARROW

1 Insufficient Sample

1 Total for Yarrow

SMALL FRUITS

BLACKBERRY

2 Cane Blight	Leptosphaeria coniothyrium
1 Cane and Leaf Rust	Kuehneola uredinis
1 Gray Mold	Botrytis cinerea
1 Mites	
1 Orange Rust	Gymnoconia peckiana
1 Psyllids	

7 Total for Blackberry	

BLUEBERRY

1 Cause of Problem Unknown	
1 Phytophthora Root Rot	Phytophthora cinnamomi

2 Total for Blueberry	

FIG

1 Insufficient Sample
1 Scales

2 Total for Fig

GRAPE

1 Anthracnose	Elsinoe ampelina
1 Bitter Rot	Greeneria uvicola
3 Black Rot	Guignardia bidwellii
2 Botryosphaeria Dieback	Botryosphaeria sp.
1 Botrytis Bunch Rot	Botrytis cinerea
2 Cause of Problem Unknown	
2 Chemical Injury	
1 Cold Injury	
1 Crown Gall	Agrobacterium vitis
1 Cultural Problem	
1 Eriophyid Mites	
1 Nonspecific Fruit Rot	
1 Petri Disease	Phaeoacremonium sp.
2 Phomopsis Cane and Leaf Blight	Phomopsis viticola
1 Phylloxera Galls	
2 Powdery Mildew	Uncinula necator
1 Zonate Leaf Spot	Cristulariella moricola

24 Total for Grape	

RASPBERRY

1 Cane Blight	Coniothyrium fuckellii
1 Cane Botrytis	Botrytis cinerea
1 Cause of Problem Unknown	
1 Pythium Root Rot	Pythium sp.

4 Total for Raspberry	

Plant Disease Clinic

STRAWBERRY

1 Angular Leaf Spot	Xanthomonas fragariae
2 Anthracnose	Colletotrichum acutatum
1 Cultural Problem	
3 Dendrophoma Leaf Blight	Dendrophoma obscurans
1 Environmental Stress	
2 Frost Injury	
1 Leaf Scorch	Marssonina fragariae
1 Negative for Anthracnose	
1 Phytophthora Crown Rot	Phytophthora cactorum
1 Rhizoctonia Leaf Blight	Rhizoctonia solani
1 Suspect Frost Injury	
1 Suspect Nutrient Deficiency	

16 Total for Strawberry	

WINEBERRY

1 Negative for Disease	

1 Total for Wineberry	

TREES

ARBORVITAE

- 1 Cultural Problem
- 1 Environmental Stress
- 1 Mites
- 1 Normal Senescence
- 1 Pestalotiopsis Twig Blight Pestalotiopsis funerea
-
- 5 Total for Arborvitae

ASH

- 1 Anthracnose Discula sp.
- 2 Chemical Injury
- 1 Insufficient Sample
-
- 4 Total for Ash

BALDCYPRESS

- 1 Suspect Chemical Injury
-
- 1 Total for Baldcypress

BIRCH

- 1 Anthracnose Discula betulina
- 1 Mites
- 1 Septoria Leaf Spot Septoria betulicola
-
- 3 Total for Birch

BLACK GUM

- 1 Eriophyid Mites
-
- 1 Total for Black Gum

BLACK LOCUST

- 1 Environmental Stress
-
- 1 Total for Black Locust

BUCKEYE

- 1 Environmental Stress
-
- 1 Total for Buckeye

Plant Disease Clinic

CEDAR

1 Cedar-Quince Rust	Gymnosporangium clavipes
3 Environmental Stress	
1 Negative for Disease	
1 Suspect Frost Injury	
1 Webworms	

7 Total for Cedar	

CHERRY

1 Mechanical Injury

1 Total for Cherry

CRYPTOMERIA

1 Insufficient Sample

1 Total for Cryptomeria

CYPRESS

1 Algae	
2 Botryosphaeria Dieback	Botryosphaeria sp.
1 Cause of Problem Unknown	
1 Cytospora Canker	Cytospora sp.
4 Environmental Stress	
8 Insufficient Sample	
1 Macrophoma Canker	Macrophoma sp.
1 Male Cones	
1 Normal Bark Formation	
2 Pestalotiopsis Tip Blight	Pestalotiopsis funerea
2 Phomopsis Tip Blight	Phomopsis sp.
1 Scales	
4 Seiridium Canker	Seiridium unicorne
5 Suspect Seiridium Canker	Seiridium sp.
1 Winter Injury	

35 Total for Cypress	

DOGWOOD

1 Botrytis Blight	Botrytis cinerea
1 Chemical Injury	
9 Discula Anthracnose	Discula destructiva
3 Environmental Stress	
1 Frost Injury	
1 Insufficient Information	
6 Insufficient Sample	
1 Nutrient Deficiency	
1 Physiological Problem	
5 Powdery Mildew	Oidium sp.
4 Scorch	
7 Septoria Leaf Spot	Septoria cornicola
6 Spot Anthracnose	Elsinoe corni

Plant Disease Clinic

1 Suspect Mechanical Injury

47 Total for Dogwood

DOUGLASFIR

1 Gray Mold	Botrytis cinerea
1 Pythium Root Rot	Pythium sp.

2 Total for Douglasfir	

ELM

4 Black Spot	Gloeosporium ulmeum
2 Dutch Elm Disease	Ophiostoma ulmi
1 Eriophyid Mites	
1 Negative for Dutch Elm Disease	
1 Negative for Root Disease	

9 Total for Elm	

FALSECYPRESS

1 Botrytis Blight	Botrytis cinerea
1 Environmental Stress	
1 Web Blight	Rhizoctonia solani

3 Total for Falsecypress	

FIR

2 Chemical Injury	
3 Cultural Problem	
1 Deep Planting	
1 Environmental Stress	
1 Girdling Roots	
2 Insufficient Sample	
6 Phytophthora Root Rot	Phytophthora sp.

16 Total for Fir	

GOLDEN-RAIN-TREE

1 Suspect Bacterial Scorch	Xylella fastidiosa

1 Total for Golden-rain-tree	

HAWTHORN

1 Cedar-Quince Rust	Gymnosporangium clavipes

1 Total for Hawthorn	

HEMLOCK

2 Environmental Stress	
1 Eriophyid Mites	

3 Total for Hemlock	

Plant Disease Clinic

HICKORY

1 Leaf Stem Gall Insects

1 Total for Hickory

IRONWOOD

1 Cultural Problem
1 Environmental Stress

2 Total for Ironwood

JUNIPER

1 Cytospora Blight
1 Kabatina Tip Blight
1 Mites

3 Total for Juniper

Cytospora sp.
Kabatina juniperi

KATSURA TREE

1 Negative for Disease

1 Total for Katsuratree

LINDEN

1 Cultural Problem
1 Environmental Stress

2 Total for Linden

LONDON PLANETREE

1 Anthracnose
1 Bird's Nest Fungus

2 Total for London Planetree

Gnomonia platani
Cyathus sp.

MAGNOLIA

1 Alternaria Leaf Spot
1 Chemical Injury
2 Environmental Stress
1 Insufficient Sample
1 Mites
1 Normal Condition
5 Winter Injury

12 Total for Magnolia

Alternaria sp.

MAPLE

9 Anthracnose
1 Botryosphaeria Canker
2 Environmental Stress
1 Eriophyid Mites
2 Frost Injury

Discula sp.
Botryosphaeria dothidea

Plant Disease Clinic

3	Insects	
12	Insufficient Sample	
2	Leafhoppers	
1	Lichens	
1	Mycosphaerella Leaf Spot	Mycosphaerella sp.
1	Negative for Disease	
1	Negative for Verticillium Wilt	
1	Nutrient Deficiency	
1	Phoma Leaf Spot	Phoma sp
1	Phomopsis Dieback	Phomopsis sp.
3	Purple-eye Leaf Spot	Phyllosticta minima
1	Scales	
1	Scorch	
1	Sooty Mold	
1	Suspect Salt Injury	
1	Suspect Wood Decay	
1	Tar Spot	Rhytisma acerinum
1	Wood Decay	
10	Zonate Leaf Spot	Cristulariella pyramidalis

59	Total for Maple	
MIMOSA		
1	Suspect Mimosa Wilt	Fusarium oxysporum f. sp. pernicos

1	Total for Mimosa	
OAK		
3	Anthracnose	Apiognomonina sp.
2	Bacterial Wetwood	
1	Botryosphaeria Dieback	Botryosphaeria sp.
2	Chemical Injury	
1	Eastern Gall Rust	Cronartium quercuum
1	Environmental Stress	
1	Gall Insect	
1	Insufficient Sample	
1	Iron Chlorosis	
1	Low pH	
2	Negative for Oak Wilt	
1	Normal Leaf Retention	
1	Oak Leaf Blister	Taphrina caerulescens
7	Oak Leaf Button Galls	
1	Saprophytic Fungus	
2	Scales	
1	Sooty Mold	
1	Suspect Bacterial Scorch	
1	Suspect Chemical Injury	
2	Suspect Environmental Stress	
1	Suspect Hail Injury	
6	Tubakia Leaf Spot	Tubakia dryina

40	Total for Oak	

Plant Disease Clinic

ORNAMENTAL CHERRY

2 Insufficient Sample
1 Scales
1 Suspect Chemical Injury
1 White Rot

5 Total for Ornamental Cherry

Irpex lacteus

ORNAMENTAL PEAR

1 Chemical Injury
1 Cultural Problem
2 Fire Blight
1 Insufficient Sample

5 Total for Ornamental Pear

Erwinia amylovora

PINE

3 Cultural Problem
3 Diplodia Tip Blight
1 Dothistroma Needle Blight
1 Environmental Stress
1 Insects
7 Insufficient Sample
1 Mite Question
1 Negative for Pinewood Nematodes
1 Phytophthora Root Rot
1 Procerum Root Disease
1 Sooty Mold
1 Suspect Drought
1 Web Blight
1 Webworms

24 Total for Pine

Diplodia pinea
Dothistroma pini

Phytophthora cinnamomi
Leptographium procerum

Rhizoctonia solani

POPLAR

1 Botryosphaeria Dieback
1 Fusarium Canker

2 Total for Poplar

Botryosphaeria sp.
Fusarium solani

PRUNUS

2 Black Knot

2 Total for Prunus

Dibotryon morbosum

Plant Disease Clinic

REDBUD

2 Botrytis Blight	Botrytis cinerea
1 Chemical Injury	
1 Insufficient Sample	
1 Mites	
1 Negative for Disease	

6 Total for Redbud	

SERVICEBERRY

1 Aphids	
1 Botryosphaeria Canker	Botryosphaeria dothidea
1 Cedar-Quince Rust	Gymnosporangium clavipes
1 Suspect Chemical Injury	

4 Total for Serviceberry	

SPRUCE

1 Cultural Problem	
10 Environmental Stress	
2 Insufficient Sample	
6 Mites	
1 Negative for Disease	
1 Nutrient Deficiency	
3 Rhizosphaera Needle Blight	Rhizosphaera kalkhoffii
1 Seasonal Needle Drop	

25 Total for Spruce	

SWEET GUM

1 Botryosphaeria Canker	Botryosphaeria dothidea

1 Total for Sweet Gum	

SYCAMORE

2 Anthracnose	Gnomonia platani

2 Total for Sycamore	

TREES, MISCELLANEOUS

1 Chemical Injury	

1 Total for Trees, Miscellaneous	

TULIP TREE

1 Chemical Injury	
1 Sooty Mold	
1 Tarspot	Ectostroma liriodendri

3 Total for Tulip Tree	

Plant Disease Clinic

WILLOW

1 Adventitious Roots	
1 Anthracnose	Gloeosporium sp.
2 Crown Gall	Agrobacterium tumefaciens
1 Cytospora Canker	Cytospora sp.
1 Suspect Cytospora Canker	Cytospora sp.

6 Total for Willow	

YELLOWWOOD

1 Suspect Chemical Injury	

1 Total for Yellowwood	

TREE FRUITS AND NUTS

APPLE

1 Bitter Rot	<i>Glomerella cingulata</i>
1 Black Rot	<i>Physalospora obtusa</i>
1 Burrknot	
4 Cedar-Apple Rust	<i>Gymnosporangium juniperi-virginianae</i>
2 Environmental Stress	
3 Fire Blight	<i>Erwinia amylovora</i>
1 Fly Speck	<i>Microthyriella rubi</i>
2 Frogeye Leaf Spot	<i>Physalospora obtusa</i>
1 Insects	
1 Insufficient Sample	
1 Mites	
1 Poor Drainage	
1 Russetting	
2 Scales	
1 Suspect Fire Blight	<i>Erwinia amylovora</i>
1 Suspect Hail Injury	

24 Total for Apple	

APRICOT

1 Insufficient Sample	

1 Total for Apricot	

CHERRY

2 Black Knot	<i>Dibotryon morbosum</i>
2 Brown Rot	<i>Monilinia fructicola</i>
2 Cherry Leaf Spot	<i>Coccomyces hiemalis</i>
3 Environmental Stress	
1 Insects	
3 Insufficient Sample	
1 Phoma Canker	<i>Phoma</i> sp.
1 Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
1 Powdery Mildew	<i>Oidium</i> sp.

16 Total for Cherry	

CHESTNUT

1 Gall Insects	

1 Total for Chestnut	

Plant Disease Clinic

CRABAPPLE

1 Burrknot	
1 Cedar-Quince Rust	<i>Gymnosporangium clavipes</i>
1 Fire Blight	<i>Erwinia amylovora</i>
5 Scab	<i>Venturia inaequalis</i>
1 Virus	

9 Total for Crabapple	

MULBERRY

1 False Mildew	<i>Cercospora arachnoidea</i>
1 Insufficient Sample	
1 Suspect Squirrel Damage	
1 Twig Blight	

4 Total for Mulberry	

NECTARINE

1 Curculios	
1 Insufficient Sample	
1 Peach Leaf Curl	<i>Taphrina deformans</i>

3 Total for Nectarine	

PEACH

1 Borers	
5 Brown Rot	<i>Monilinia fructicola</i>
1 Environmental Stress	
2 Gummosis	<i>Botryosphaeria</i> sp.
1 Insufficient Sample	
2 Physiological Problem	
1 Poor Drainage	
1 Scab	<i>Cladosporium carpophilum</i>

14 Total for Peach	

PEAR

1 Alternate Year Bearing	
1 Bitter Rot	<i>Colletotrichum gloeosporioides</i>
1 Blister Mites	
1 Coniothyrium Leaf Spot	<i>Coniothyrium</i> sp.
1 Cultural Problem	
1 Entomosporium Fruit Spot	<i>Entomosporium mespili</i>
1 Entomosporium Leaf Spot	<i>Entomosporium mespili</i>
9 Fire Blight	<i>Erwinia amylovora</i>
1 Negative for Disease	
1 Physiological Problem	
1 Scorch	

19 Total for Pear	

Plant Disease Clinic

PECAN

1 Environmental Stress

1 Scab

2 Total for Pecan

Cladosporium caryigenum

PERSIMMON

1 Phomopsis Dieback

1 Total for Persimmon

Phomopsis sp.

PLUM

1 Brown Rot

1 Girdling Roots

1 Sooty Mold

1 Suspect Frost Injury

4 Total for Plum

Monilinia fruticola

WALNUT

1 Anthracnose

1 Bacterial Blight

2 Total for Walnut

Gnomonia leptostyla

Xanthomonas juglandis

TURF

BENTGRASS

1 Algae	
2 Anthracnose	Colletotrichum graminicola
1 Lance Nematodes	Hoplolaimus sp.
1 Lectophilic Fairy Ring	
1 Low pH	

6 Total for Bentgrass	

BERMUDAGRASS

1 Bermudagrass Decline	Gaeumannomyces graminis
1 Bipolaris Leaf Spot and Crown Rot	Bipolaris cynodontis
1 Leaf Blotch	Bipolaris cynodontis

3 Total for Bermudagrass	

BLUEGRASS

2 Anthracnose	Colletotrichum graminicola
1 Black Layer	
4 Brown Patch	Rhizoctonia solani
1 Dollar Spot	Sclerotinia homeocarpa
3 Environmental Stress	
1 Excess Thatch	
1 Helminthosporium Leaf Spot	Bipolaris sorokiniana
1 Lance Nematodes	Hoplolaimus sp.
1 Ring Nematodes	Criconemella sp.
1 Rust	Puccinia graminis

16 Total for Bluegrass	

FESCUE

1 Algae	
1 Ascochyta Blight	Ascochyta hordei
15 Brown Patch	Rhizoctonia solani
1 Bulbous Oatgrass	Arrhenatherum elatius var. bulbosa
1 Fairy Ring	
5 Helminthosporium Blight	Drechslera dictyoides
4 Insufficient Sample	
2 Negative for Disease	
1 Red Thread	Laetisaria fuciformis
1 Rust	Puccinia graminis
1 Slime Mold	
1 Stripe Smut	Ustilago striiformis
1 Suspect Dog Damage	
1 Suspect Environmental Stress	
1 Suspect Nutrient Deficiency	
1 White Patch	Melanotus philipsii

38 Total for Fescue	

Plant Disease Clinic

RYEGRASS

- 1 Cultural Problem
- 1 Insufficient Sample
- 1 Mechanical Injury
-
- 3 Total for Ryegrass

SMOOTH CRABGRASS

- 1 Brown Patch Rhizoctonia solani
-
- 1 Total for Smooth Crabgrass

ST. AUGUSTINEGRASS

- 1 Gray Leaf Spot Pyricularia grisea
-
- 1 Total for St. Augustinegrass

TURFGRASS

- 1 Algae
- 5 Brown Patch Rhizoctonia solani
- 1 Cicadas
- 2 Cultural Problem
- 1 Excess Thatch
- 1 Gray Leaf Spot Pyricularia grisea
- 1 Helminthosporium Leaf Spot Bipolaris sorokiniana
- 2 Insufficient Sample
- 1 Melting Out Drechslera poae
- 1 Red Thread Laetisaria fuciformis
- 3 Rust Puccinia graminis
- 1 Slime Mold
-
- 20 Total for Turfgrass

ZOYSIA

- 1 Rust Puccinia zoysiae
- 1 Suspect Zoysia Patch Rhizoctonia solani
- 1 Zoysia Patch Rhizoctonia solani
-
- 3 Total for Zoysia

VEGETABLES AND HERBS

BASIL

1 Fusarium Wilt	Fusarium oxysporum

1 Total for Basil	

BEAN

1 Chemical Injury	
1 Fusarium Root Rot	Fusarium solani
3 Rhizoctonia Root Rot	Rhizoctonia solani
1 Rhizoctonia Stem and Root Rot	Rhizoctonia solani
1 Root Knot Nematodes	Meloidogyne sp.
1 Suspect Bacterial Blight	Pseudomonas syringae

8 Total for Bean	

BEET

1 Root Knot Nematodes	Meloidogyne sp.

1 Total for Beet	

BROCCOLI

1 High pH	

1 Total for Broccoli	

CABBAGE

1 Environmental Stress	
1 Pythium Root Rot	Pythium sp.

2 Total for Cabbage	

CANTALOUPE

1 Anthracnose	Colletotrichum orbiculare
1 Chemical Injury	
1 Insufficient Sample	

3 Total for Cantaloupe	

COLLARDS

1 Downy Mildew	Peronospora parasitica
1 Nutrient Deficiency	

2 Total for Collards	

Plant Disease Clinic

CUCUMBER

1 Angular Leaf Spot	<i>Pseudomonas lachrymans</i>
1 Anthracnose	<i>Colletotrichum lagenarium</i>
1 Chemical Injury	
1 Downy Mildew	<i>Pseudoperonospora cubensis</i>
3 Insufficient Sample	
1 Pythium Root Rot	<i>Pythium sp.</i>

8 Total for Cucumber	

EGGPLANT

1 Environmental Stress	

1 Total for Eggplant	

LAVENDER

1 Low pH	

1 Total for Lavender	

LETTUCE

1 Suspect Nutrient Deficiency	

1 Total for Lettuce	

OKRA

1 Root Knot Nematodes	<i>Meloidogyne sp.</i>

1 Total for Okra	

OREGANO

1 Low pH	
1 Plant Bugs	

2 Total for Oregano	

PEPPER

1 Excess Soluble Salts	
1 Fusarium Stem Rot	<i>Fusarium solani</i>
1 Nutrient Deficiency	

4 Total for Pepper	

Plant Disease Clinic

POTATO

1 Blackleg	Erwinia carotovora
1 Chemical Injury	
1 Flea Beetles	
1 Insects	
1 Insufficient Sample	
1 Low pH	
1 Penicillium Rot	Penicillium sp.
1 Powdery Mildew	Oidium sp.

8 Total for Potato	

PUMPKIN

1 Plectosporium Blight	Plectosporium tabacinum
2 Pythium Root Rot	Pythium sp.
1 Root Knot Nematodes	Meloidogyne sp.

4 Total for Pumpkin	

ROSEMARY

1 Botrytis Blight	Botrytis cinerea
1 Cultural Problem	
1 Environmental Stress	

3 Total for Rosemary	

SAGE

1 Rhizoctonia Blight	Rhizoctonia sp.

1 Total for Sage	

SHALLOT

1 Black Mold	Aspergillus niger

1 Total for Shallot	

SQUASH

1 Chemical Injury	
1 Rhizoctonia Root Rot	Rhizoctonia solani

2 Total for Squash	

SWEET CORN

1 Bacterial Top Rot	Erwinia chrysanthemi

1 Total for Sweet Corn	

THYME

1 Environmental Stress	

1 Total for Thyme	

Plant Disease Clinic

TOMATO

1 Abiotic Problem	
3 Air Pollution	
1 Anaerobic Soil Conditions	
1 Anthracnose	Colletotrichum coccodes
1 Bacterial Speck	Pseudomonas syringae pv. tomato
1 Bacterial Spot	Xanthomonas vesicatoria
1 Bacterial Wilt	Ralstonia solanacearum
3 Chemical Injury	
1 Cold Injury	
1 Cultural Problem	
1 Early Blight	Alternaria solani
5 Environmental Stress	
1 High pH	
4 Insufficient Sample	
1 Negative for Virus	
5 Nutrient Deficiency	
1 Pith Necrosis	Pseudomonas corrugata
1 Southern Blight	Sclerotium rolfsii
3 Suspect Chemical Injury	
2 Suspect Environmental Stress	
1 Timber Rot	Sclerotinia sclerotiorum
4 Tomato Spotted Wilt Virus	

43 Total for Tomato	

WATERMELON

1 Fungus Gnats
2 Insufficient Sample
1 Suspect Chemical Injury

4 Total for Watermelon

ZUCCHINI

1 Insects
1 Suspect Air Pollution

2 Total for Zucchini

WEEDS

DEAD NETTLE

1 Bacterial Blight	Pseudomonas cichorii

1 Total for Dead Nettle	

KUDZU

1 Cause of Problem Unknown	

1 Total for Kudzu	

QUACKGRASS

1 Ergot	Claviceps purpurea

1 Total for Quackgrass	

WEED

1 Italian Ryegrass	Lolium multiflorum

1 Total for Weed	

WOODY ORNAMENTALS

ARBORVITAE		
1	Macrophoma Dieback	Macrophoma sp.

1	Total for Arborvitae	
AUCUBA		
1	Frost Injury	
1	Phomopsis Dieback	Phomopsis sp.

2	Total for Aucuba	
AZALEA		
1	Botrytis Blight	Botrytis cinerea
1	Cultural Problem	
1	Deep Planting	
2	Environmental Stress	
1	High pH	
1	Insufficient Information	
7	Insufficient Sample	
1	Lacebugs	
2	Leaf and Flower Gall	Exobasidium vaccinii
1	Low pH	
1	Nutrient Imbalance	
2	Phomopsis Dieback	Phomopsis sp.
1	Suspect Chemical Injury	

22	Total for Azalea	
BARBERRY		
1	Insects	

1	Total for Barberry	
BLUEBEARD		
1	Insufficient Sample	
1	Pythium Root Rot	Pythium sp.

2	Total for Bluebeard	
BOSTON IVY		
1	Suspect Chemical Injury	

1	Total for Boston Ivy	
BOXWOOD		
12	Cultural Problem	
15	English Boxwood Decline	Paecilomyces buxi
3	Environmental Stress	
3	Frost Injury	
1	Insufficient Information	

COTONEASTER

- 1 Lacebugs
-
- 1 Total for Cotoneaster

CRAPE MYRTLE

- 1 Insufficient Sample
- 1 Squirrel Twig Pruning
-
- 2 Total for Crape Myrtle

ENGLISH IVY

- 2 Anthracnose Colletotrichum trichellum
-
- 2 Total for English Ivy

EUONYMUS

- 1 Cultural Problem
- 1 Excess Soil Moisture
- 1 Insufficient Sample
- 1 Negative for Disease
- 1 Salt Injury
-
- 5 Total for Euonymus

FORSYTHIA

- 1 Insufficient Sample
- 1 Suspect Frost Injury
-
- 2 Total for Forsythia

HIBISCUS

- 1 Bird's Nest Fungus Cyathus sp.
- 1 Physiological Problem
- 1 Suspect Chemical Injury
-
- 3 Total for Hibiscus

HOLLY

- 1 Anthracnose Gloeosporium sp.
- 10 Black Root Rot Thielaviopsis basicola
- 1 Botryosphaeria Dieback Botryosphaeria sp.
- 1 Cercospora Leaf Spot Cercospora sp.
- 2 Cultural Problem
- 3 Environmental Stress
- 1 Girdling Roots
- 5 Insufficient Sample
- 1 Negative for Root Disease
- 1 Nutrient Toxicity
- 2 Phytophthora Root Rot Phytophthora cinnamomi
- 1 Poor Drainage
- 1 Rootbound

Plant Disease Clinic

1 Spine Spot
1 Suspect Black Root Rot Thielaviopsis basicola
1 Suspect Chemical Injury
2 Suspect Environmental Stress
3 Winter Injury

38 Total for Holly

HYDRANGEA

1 Cercospora Leaf Spot Cercospora hydrangeae
1 Insufficient Sample
1 Winter Injury

3 Total for Hydrangea

HYPERICUM

2 Bacterial Leaf Spot Burkholderia andropogonis
1 Botrytis Blight Botrytis cinerea

3 Total for Hypericum

INDIAN HAWTHORN

2 Entomosporium Leaf Spot Entomosporium mespili

2 Total for Indian Hawthorn

INKBERRY

1 Black Root Rot Thielaviopsis basicola
1 Gray Mold Botrytis cinerea
2 Phytophthora Root Rot Phytophthora sp.
1 Salt Injury

5 Total for Inkberry

JUNIPER

4 Cultural Problem
2 Environmental Stress
1 High pH
1 Insufficient Information
4 Insufficient Sample
1 Low pH
1 Negative for Disease
2 Negative for Root Disease
3 Phomopsis Tip Blight Phomopsis juniperovora
3 Phytophthora Root Rot Phytophthora sp.
1 Pythium Root Rot Pythium sp.
1 Rootbound
1 Salt Injury
1 Suspect Mechanical Injury
1 Vole Injury
1 Winter Injury
1 Wood Decay

Plant Disease Clinic

PHOTINIA

1 Cultural Problem
6 Entomosporium Leaf Spot Entomosporium mespili

7 Total for Photinia

PIERIS

1 Lacebugs
1 Phomopsis Dieback Phomopsis sp.
1 Sooty Mold

3 Total for Pieris

PLANTS, MISCELLANEOUS

1 Artillery Fungus Sphaerobolus stellatus
1 Chemical Injury
1 Environmental Stress
1 Insects
1 Negative for Disease

5 Total for Plants, Miscellaneous

PRIVET

1 Environmental Stress
1 Winter Injury

2 Total for Privet

PYRACANTHA

1 Phytophthora Root Rot Phytophthora sp.
1 Salt Injury

2 Total for Pyracantha

RED CEDAR

1 Mites
1 Pestalotia Blight Pestalotia funerea

2 Total for Red Cedar

Plant Disease Clinic

RHODODENDRON

1 Borers	
10 Botryosphaeria Dieback	Botryosphaeria sp.
1 Cultural Problem	
3 Insufficient Sample	
1 Lacebugs	
1 Negative for Root Disease	
1 Nutrient Toxicity	
1 Scorch	
1 Tissue Proliferation	
2 Winter Injury	

22 Total for Rhododendron	

ROSE

1 Air Pollution	
1 Botrytis Blight	Botrytis cinerea
1 Common Canker	Coniothyrium fuckelii
4 Rose Rosette	
1 Suspect Hail Injury	
4 Suspect Rose Rosette	

12 Total for Rose	

SHRUB, UNKNOWN

1 Insufficient Sample	

1 Total for Shrub, Unknown	

SKIMMIA

1 Insufficient Sample	

1 Total for Skimmia	

SMOKE TREE

1 Verticillium Wilt	Verticillium dahliae

1 Total for Smoke Tree	

SPIREA

1 Mycosphaerella Leaf Spot	Mycosphaerella sp.

1 Total for Spirea	

SWEETSHRUB

1 Suspect Chemical Injury	

1 Total for Sweetshrub	

Plant Disease Clinic

SWEETSPIRE

- 1 Suspect Chemical Injury
-
- 1 Total for Sweetspire

VIBURNUM

- 1 Borers
- 1 Botryosphaeria Dieback Botryosphaeria dothidea
- 1 Cultural Problem
- 1 Frost Injury
- 2 Insufficient Sample
- 1 Powdery Mildew Microsphaera sp.
- 1 Pythium Root Rot Pythium sp.
- 2 Winter Injury
-
- 10 Total for Viburnum

WAX MYRTLE

- 1 Mycosphaerella Leaf Spot Mycosphaerella sp.
-
- 1 Total for Wax Myrtle

WEIGELA

- 1 Insufficient Sample
-
- 1 Total for Weigela

WINTERGREEN

- 1 Cercospora Leaf Spot Cercospora sp.
-
- 1 Total for Wintergreen

YEW

- 2 Environmental Stress
- 1 Negative for Root Disease
- 1 Suspect Winter Injury
-
- 4 Total for Yew

MISCELLANEOUS

MULCH

- 1 Sour Mulch
-
- 1 Total for Mulch

MOSS

- 1 Environmental Stress
-
- 1 Total for Moss

**Summary of Plant Identifications
2003**

Higher Plants (21)

Family: Bryophytes	Moss
Family: Capperaceae Could not determine sp.	Member of Capperaceae
Family: Elaeagnaceae Elaeagnus pungens	Thorny Elaeagnus
Family: Ericaceae Rhododendron pericylmenoides Vaccinium angustifolium	Pinxterbloom Azalea Late Low Blueberry
Family: Fabaceae Sophora japonica	Japanese Pagodatree
Family: Lamiaceae Glechoma hederacea	Ground Ivy
Family: Pinaceae Pinus thunbergiana	Japananese Black Pine
Family: Poaceae Dactylis glomerata	Orchardgrass
Family: Potamogetonaceae Potamogeton foliosus	Pondweed
Family: Passifloraceae Passiflora lutea	Yellow Passionflower
Family: Rosaceae Agrimonia parsiflora Amelanchier arboreta Fragaria virginiana Pyrus pyrifolia (2) Pyrus sp.	Small-flowered Agrimony Serviceberry Wild Strawberry Asian Pear Ornamental Pear
Family: Salicaceae Salix discolor	Pussywillow
Family: Santalaceae Pyrularia pubera	Buffalonut
Family: Scrophulariaceae Veronica officinalis	Common Speedwell

Plant Disease Clinic

Family: Violaceae
Viola papilionacea

Wild Violet

Fungi (15)

Amanita pantherina
Boletus sp.
Bondarzewia berkeleyi
Cantharellus laeteritius
Cyathus sp.
Fuligo septica
Ganoderma applanatum
Mutinus caninus
Mycenastrum corium
Scleroderma geaster
Scleroderma sp.
Sphaerobolus stellatus
Trametes versicolor
Unidentified Fungus (2)

Amanita
Bolete
Bondarzewia
Golden Chantarelle
Bird's Nest Fungus
Slime mold
Artist's Conk
Stinkhorn
Mycenastrum
Dead Man's Hand
Earthball
Artillery Fungus
Turkey Tail
Decay Fungus

ALL OTHERS (4)

Algae (1)
Insufficient Sample (2)
Nonliving Substance (1)