The Plant Disease Clinic and Weed Identification Laboratory
2000 Annual Report

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Acknowledgements

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 2000, diagnoses in the Plant Disease Clinic in Blacksburg were performed by Mary Ann Hansen and Diane Reaver with valuable assistance from Shannon Hill and Gordon Lightbourne.

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. Claude Kenley and Dr. Kevin Bradley. 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.

Shannon Hill compiled the annual report with valuable assistance from Elizabeth Bush. Peter Sforza formatted the annual report for the World Wide Web. It can be viewed on-line at <http://oak.ppws.vt.edu/~clinic/>.

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.

The year 2000 was an interesting year for plant pathologists. The prolonged, wet weather in the spring favored many fungal and bacterial diseases. This was reflected in the year's sample load, which was 400 samples higher than in the previous year.

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. Agdia provides testing services for a wide range of plant viruses; however, testing is limited to the viruses for which antisera are available. Host inoculation was also used to identify viruses in some specimens.

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.

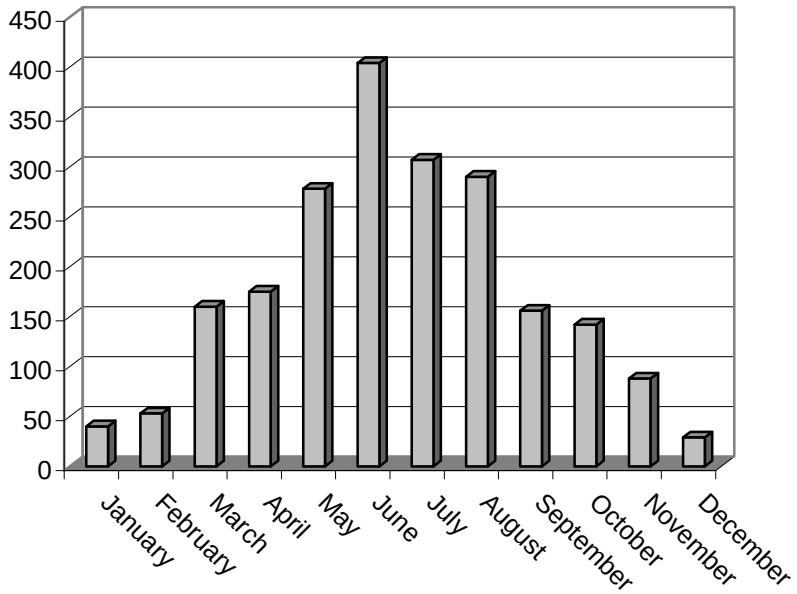
Reports are now mailed electronically to the Extension Office email address. Upon request, we will simultaneously send electronic reports to one or more individual Extension personnel. Since implementing electronic mailing, we have discontinued faxing reports. For the time being, we are continuing to send a copy of the original diagnostic form submitted by the agent back to the Extension office through the Extension Distribution Center. Any factsheets or additional printed information is attached to this form. Any comments or questions about reports or plant problems can be emailed to us at <clinic@vt.edu>.

Plant Disease Clinic

Monthly Submission Report
Number of Samples Received by Month
2000

Month	# of Samples
January	40
February	53
March	160
April	175
May	278
June	404
July	307
August	290
September	156
October	142
November	88
December	29
Total	2122

Number of Samples by Month

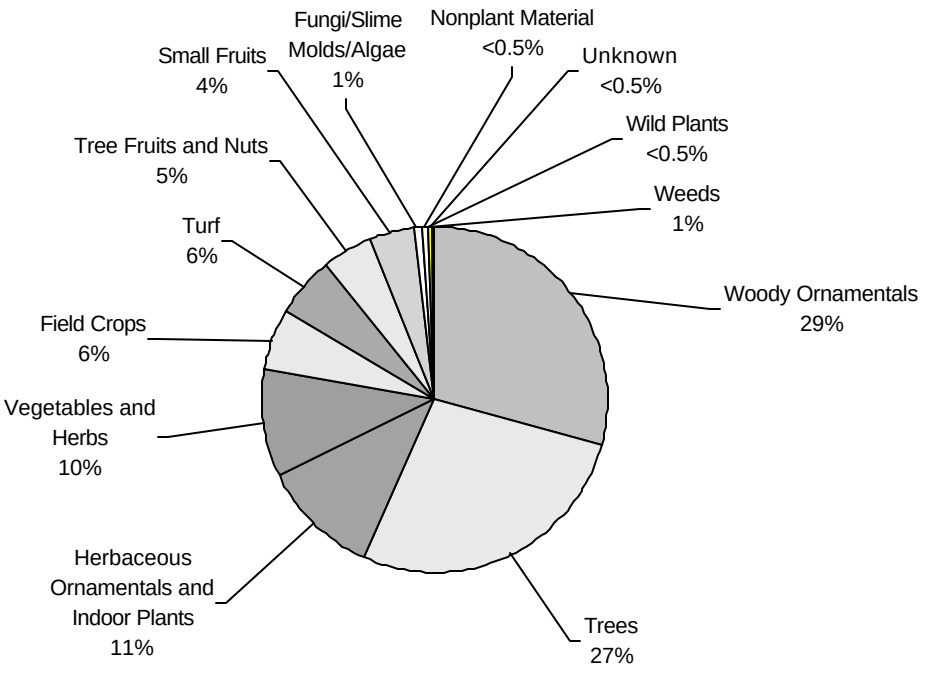


Plant Disease Clinic

Crop Category Report
Sample Totals by Major Crop Category
2000

Crop Category	# of Samples	% of Total
Woody Ornamentals	618	29%
Trees	582	27%
Herbaceous Ornamentals and Indoor Plants	237	11%
Vegetables and Herbs	214	10%
Field Crops	121	6%
Turf	119	6%
Tree Fruits and Nuts	102	5%
Small Fruits	88	4%
Fungi/Slime Molds/Algae	16	1%
Weeds	13	1%
Nonplant Material	5	0%
Wild Plants	4	0%
Unknown	3	0%
Total	2122	100

Samples by Crop Category



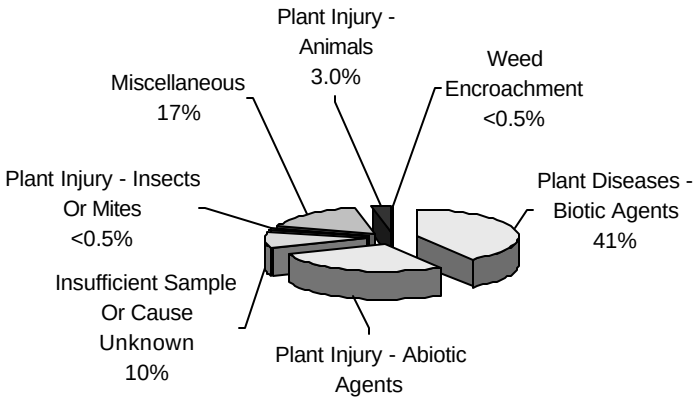
Plant Disease Clinic

Diagnostic Category Report
Distribution of Diagnoses by Major Diagnostic Category
2000

	# of Diagnoses	% of Total
Plant Diseases - Biotic Agents	928	41%
Bacterium (37)		
Fungus (782)		
Nematode (73)		
Virus (36)		
Plant Injury - Abiotic Agents	646	28%
Chemical (88)		
Environmental/cultural (538)		
Mechanical (20)		
Plant Injury - Insects Or Mites	232	10%
Insects Or Mites (232)		
Plant Injury - Animals	9	
Birds (2)		
Mammals (7)		
Insufficient Sample Or Cause Unknown	392	17%
Insufficient Sample Or Information (314)		
Unknown (78)		
Miscellaneous	69	3%
Alleopathy (4)		
Normal Condition (24)		
Other (23)		
Physiological/genetic (18)		
Weed Encroachment	2	0%
Weed (2)		
Total*	2276	100.0

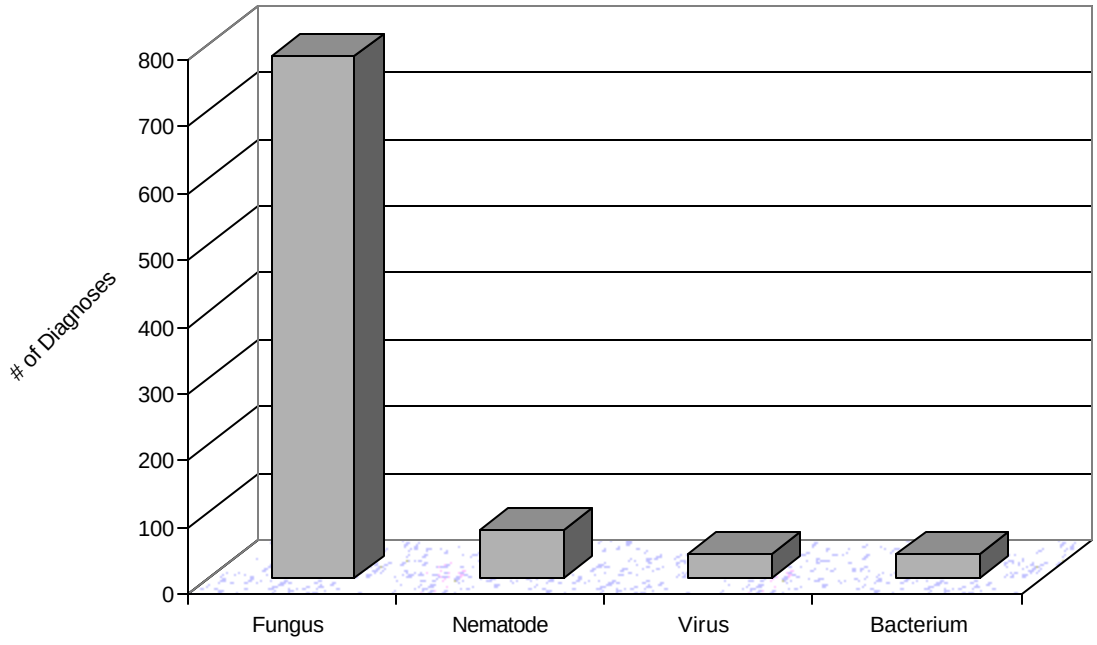
*Note that the number of diagnoses is greater than the number of samples because some samples have more than one problem.

2000 Samples by Diagnostic Category

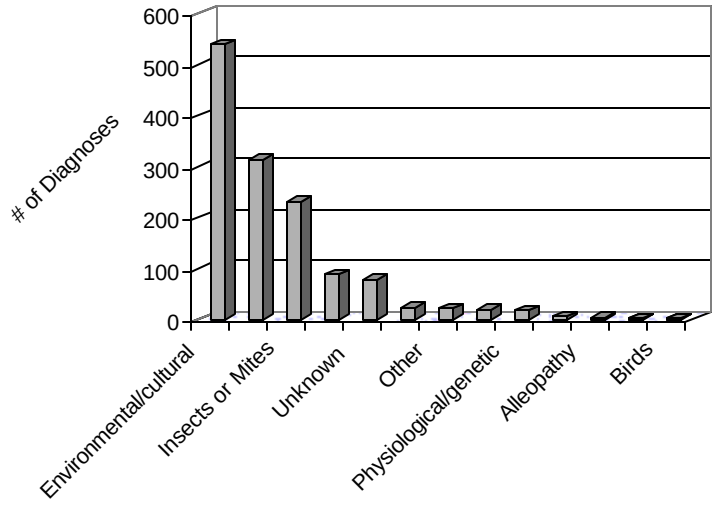


Plant Disease Clinic

Plant Pathogens, 2000



Other Agents, 2000



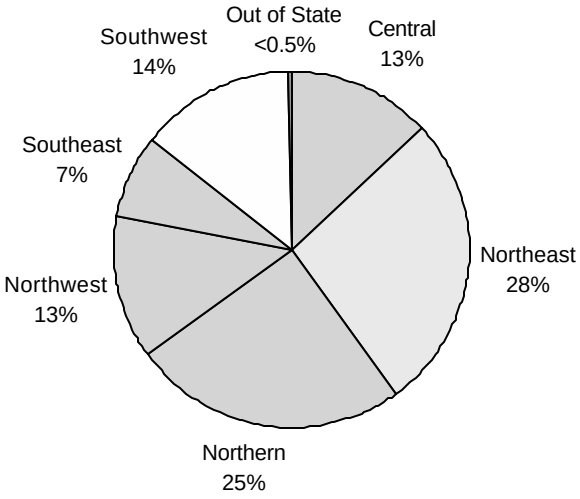
Plant Disease Clinic

Distribution of Samples by County: 2000

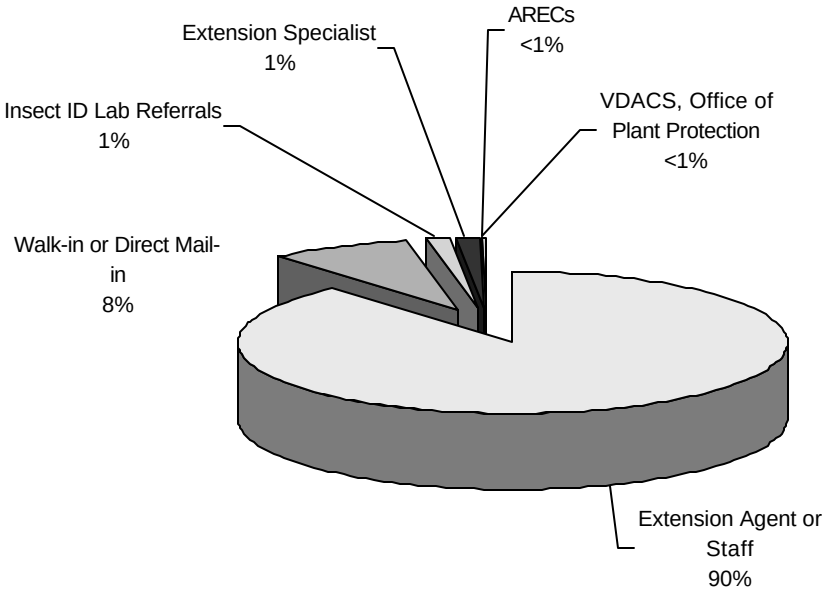
County	# of Samples	County	# of Samples
Albemarle	156	Lunenburg	29
Alexandria (IC)	1	Lynchburg (IC)	83
Amelia	3	Madison	3
Amherst	10	Mathews	11
Appomattox	3	Mecklenburg	2
Arlington	48	Middlesex	22
Augusta	37	Montgomery	145
Bath	3	Nelson	74
Bedford	15	New Kent	7
Bland	1	Newport News (IC)	4
Botetourt	15	Norfolk (IC)	28
Brunswick	20	Northampton	2
Buchanan	5	Northumberland	45
Campbell	13	Nottoway	7
Caroline	2	Orange	16
Carroll	16	Page	23
Charles City	12	Patrick	4
Chesapeake (IC)	12	Petersburg (IC)	1
Chesterfield	63	Pittsylvania	3
Clarke	8	Portsmouth (IC)	2
Craig	2	Powhatan	12
Culpeper	9	Prince Edward	4
Cumberland	4	Prince George	28
Danville (IC)	39	Prince William	15
Dickenson	8	Pulaski	11
Dinwiddie	25	Rappahannock	15
Essex	18	Richmond	3
Fairfax	36	Richmond (IC)	3
Fauquier	20	Roanoke	81
Floyd	20	Rockbridge	10
Fluvanna	43	Rockingham	60
Franklin	28	Russell	3
Frederick	15	Scott	6
Giles	16	Shenandoah	11
Gloucester	13	Smyth	4
Goochland	7	Southampton	4
Grayson	4	Spotsylvania	5
Greene	17	Stafford	15
Greensville/Emporia	16	Suffolk (IC)	3
Halifax	6	Surry	4
Hampton (IC)	31	Sussex	7
Hanover	124	Tazewell	10
Henrico	27	Unknown	3
Henry	7	Virginia Beach (IC)	16
Highland	8	Warren	4
Isle of Wight	7	Washington	21
James City	64	Westmoreland	36
King George	23	Wise	8
King William	12	Wythe	13
Lancaster	17	York	36
Lee	7	Out-of-state	3
Loudoun	20		
Louisa	15	Total	2116

Plant Disease Clinic

2000 Samples by District



Samples by Submitter Type, 2000



Weed Identification Lab

Monthly Submission Report
Number of Samples Received by Month
2000

Month	# of Samples
January	5
February	3
March	35
April	38
June	41
July	43
August	47
September	54
October	47
November	24
December	8
Total	**352**

Weed Sample Totals by Crop
2000

Crop	# of Samples
Alfalfa	6
Aquatic	42
Corn	8
Gardens/Vegetables	15
Identification Only	10
Landscapes	20
Non-crop	28
Orchards/Nurseries	4
Pastures/Hayfields	99
Small Grains	6
Soybeans	3
Tobacco	1
Turfgrass/Home Lawns	110
Total	**352**

Weed Identification Lab

Distribution of Samples by County

2000

City or County	# of Samples	City or County	# of Samples
Albemarle	9	King and Queen	1
Alexandria	1	King George	1
Amherst	3	King William	3
Appomattox	3	Lancaster	3
Arlington	1	Louisa	3
Augusta	18	Loudoun	1
Bath	7	Lunenberg	3
Bedford	2	Lynchburg	24
Bland	2	Madison	2
Botetourt	4	Middlesex	1
Brunswick	1	Montgomery	14
Buchanan	1	Nelson	1
Buckingham	1	New Kent	2
Campbell	4	Northumberland	2
Caroline	2	Nottoway	5
Carroll	4	Page	14
Charles City	2	Patrick	2
Chesapeake	1	Pittsylvania	6
Chesterfield	1	Prince Edward	2
Clarke	8	Rappahannock	12
Craig	2	Roanoke	8
Cumberland	2	Rockbridge	1
Danville (IC)	7	Rockingham	13
Dickenson	6	Russell	5
Fairfax	2	Scott	4
Fauquier	3	Shenandoah	8
Floyd	1	Smyth	5
Fluvanna	10	Spotsylvania	4
Franklin	8	Stafford	4
Frederick	3	Suffolk	1
Giles	2	Surry	1
Gloucester	1	Sussex	2
Goochland	7	Tazewell	7
Greene	2	Warren	1
Halifax	3	Washington	1
Hampton	1	Westmoreland	4
Hanover	18	Wythe	10
Henrico	4	York	4
Henry	1		
Highland	4	**Total**	**313**
James City	5		

Summary of Diagnoses by Plant
2000

FIELD CROPS

ALFALFA

1	Boron Deficiency	
1	Cause of Problem Unknown	
1	Environmental Stress	
1	Leptosphaerulina Leaf Spot	Leptosphaerulina briosiana
1	Low pH	
1	Negative for Root Disease	
1	Sclerotinia Crown and Stem Rot	Sclerotinia trifoliorum
1	Stemphylium Leaf Spot	Stemphylium botryosum
1	Suspect Boron Deficiency	
2	Suspect Iron Deficiency	
11	Total for Alfalfa	

AUSTRIAN WINTER PEA

1	Environmental Stress	
1	Total for Austrian Winter Pea	

BARLEY

1	Cold Injury	
2	Net Blotch	Pyrenophora teres
1	Suspect Chemical Injury	
4	Total for Barley	

BLUEGRASS

1	Melting Out	Drechslera poae
1	Powdery Mildew	Erysiphe graminis
1	Rust	Puccinia graminis
3	Total for Bluegrass	

CAUCASIAN BLUE-STEM

1	Seed smut	Sorosporium sp.
1	Total for Caucasian Blue-stem	

CLOVER

1	Sclerotinia Crown and Stem Rot	Sclerotinia trifoliorum
1	Total for Clover	

CORN

1	Anthracnose	Colletotrichum graminicola
1	Cause of Problem Unknown	
2	Common Rust	Puccinia sorghi
1	Flea Beetles	
1	Genetic Stripe	
1	Gray Leaf Spot	Cercospora zeae-maydis
1	Lance Nematodes	Hoplolaimus sp.
1	Leaf Sheath Spotting	
2	Low pH	
1	Magnesium Deficiency	
1	Negative for Nematodes	
1	Negative for Red Root Rot	
3	Nitrogen Deficiency	
2	Northern Corn Leaf Blight	Helminthosporium turcicum
2	Northern Leaf Spot	Bipolaris zeicola
1	Nutrient Deficiency	
2	Suspect Chemical Injury	
1	Suspect Nutrient Deficiency	
25	Total for Corn	

FESCUE

1	Heat Stress	
1	Suspect Mechanical Injury	
2	Total for Fescue	

FOXTAIL MILLET

1	Gray Leaf Spot	Pyricularia grisea
1	Total for Foxtail Millet	

OATS

1	Barley Yellow Dwarf Virus	
1	Total for Oats	

ORCHARDGRASS

1	Cause of Problem Unknown	
2	Drechslera Leaf Spot	Drechslera dactylidis
1	Environmental Stress	
1	Leaf Blotch	Cercosporidium graminis
5	Total for Orchardgrass	

RYE

1	Insufficient Sample	
1	Total for Rye	

SORGHUM

2	Maize Dwarf Mosaic Virus	
2	Total for Sorghum	

SOYBEAN

1	Anthracnose	Colletotrichum truncatum
1	Brown Spot	Septoria glycines
3	Cause of Problem Unknown	
1	Charcoal Rot	Macrophomina phaseolina
1	Chemical Injury	
2	Cyst Nematodes	Heterodera glycines
1	Environmental Stress	
3	Essex Syndrome	Fusarium oxysporum
1	Insufficient Sample	
1	Lance Nematodes	Hoplolaimus sp.
1	Lesion Nematodes	Pratylenchus sp.
1	Powdery Mildew	Microsphaera diffusa
1	Pythium Root Rot	Pythium sp.
2	Rhizoctonia Root Rot	Rhizoctonia solani
1	Rhizoctonia Stem and Root Rot	Rhizoctonia solani
1	Spiral Nematodes	Helicotylenchus sp.
1	Stem Canker	Diaporthe phaseolorum
1	Sting Nematodes	Belonolaimus sp.
1	Suspect Virus	
1	Thrips	

26	Total for Soybean	

TOBACCO

1	Aspergillus Storage Rot	Aspergillus sp.
1	Granville Wilt	Pseudomonas solanacearum
1	Insufficient Sample	
1	Penicillium Storage Rot	Penicillium sp.
1	Positive for Alternaria	Alternaria sp.
1	Positive for Penicillium	Penicillium sp.
1	Rhizoctonia Root Rot	Rhizoctonia solani
1	Root Knot Nematodes	Meloidogyne sp.

8	Total for Tobacco	

WHEAT

2	Barley Yellow Dwarf Virus	
2	Chemical Injury	
1	Cold Injury	
1	Drought	
2	Frost Injury	
9	High pH	
2	Insufficient Sample	
1	Lance Nematodes	Hoplolaimus sp.
1	Leaf Rust	Puccinia recondita
2	Low pH	
1	Natural Senescence	
2	Negative for Virus	
3	Powdery Mildew	Erysiphe graminis
1	Sharp Eyespot	Rhizoctonia solani
1	Soilborne Wheat Mosaic Virus	
2	Sunscald	
1	Suspect Cold Injury	
3	Suspect Wheat Spindle Streak Mosaic	
5	Take-all	Gaeumannomyces graminis
1	Tan Spot	Pyrenophora tritici-repentis
5	Wheat Spindle Streak Mosaic Virus	
3	Wheat Streak Mosaic Virus	

51	Total for Wheat	

GAMA GRASS

1	Rust	Puccinia tripsaci

1	Total for Gama Grass	

VEGETABLES AND HERBS

ASPARAGUS

1	Fusarium Crown Rot	Fusarium sp.
1	Total for Asparagus	

BEAN

1	Angular Leaf Spot	Phaeoisariopsis griseola
1	Anthracnose	Colletotrichum lindemuthianum
2	Insects	
1	Insufficient Information	
3	Insufficient Sample	
1	Rhizoctonia Stem and Root Rot	Rhizoctonia solani
1	Root Knot Nematodes	Meloidogyne sp.
1	Rust	Uromyces appendiculatus
2	Virus	
13	Total for Bean	

BROCCOLI

1	Environmental Stress
1	Insufficient Sample
1	Low pH
3	Total for Broccoli

CABBAGE

1	Alternaria Leaf Spot	Alternaria brassicicola
1	Aphids	
1	Fusarium Damping Off	Fusarium sp.
1	Insufficient Sample	
1	Suspect Nutrient Deficiency	
5	Total for Cabbage	

CANTALOUPE

1	Anthracnose	Colletotrichum lagenarium
1	Chemical Injury	
1	Gummy Stem Blight	Mycosphaerella citrullina
1	Insects	
1	Insufficient Information	
1	Insufficient Sample	
1	Virus	
7	Total for Cantaloupe	

COLLARDS

1	Cercosporella Leaf Spot	Cersosporella brassicae
1	Cultural Problem	
3	Low pH	
1	Oedema	
1	Wirestem	Rhizoctonia solani
7	Total for Collards	

CRESS

1	Suspect Nutrient Deficiency	
1	Total for Cress	

CUCUMBER

2	Anthracnose	Colletotrichum lagenarium
1	Bacterial Wilt	Erwinia tracheiphila
1	Cause of Problem Unknown	
2	Cucumber Beetles	
1	Cultural Problem	
1	Insects	
1	Insufficient Information	
1	Insufficient Sample	
2	Nutrient Deficiency	
1	Physiological Problem	
1	Root Knot Nematodes	Meloidogyne sp.
1	Suspect Chemical Injury	
15	Total for Cucumber	

EGGPLANT

1	Root Knot Nematodes	Meloidogyne sp.
1	Total for Eggplant	

GARLIC

1	Cold Injury
1	Total for Garlic

KALE

1	Aphids
1	Low pH
1	Suspect Nutrient Deficiency
3	Total for Kale

KIWI

1	Mites
1	Total for Kiwi

LAVENDER

1	Phytophthora Root Rot	Phytophthora parasitica
1	Rhizoctonia Stem and Root Rot	Rhizoctonia sp.
2	Total for Lavender	

LIMA BEAN

1	Insufficient Sample
1	Mites
1	Suspect Fertilizer Burn
3	Total for Lima Bean

MUSTARD

1	Suspect Nutrient Deficiency	
1	Total for Mustard	

ONION

1	Cultural Problem	
1	Environmental Stress	
2	Total for Onion	

PEPPER

3	Bacterial Spot	Xanthomonas vesicatoria
1	Stinkbugs	
1	Suspect Chemical Injury	
1	Suspect Fertilizer Burn	
1	Thrips	
1	Virus	
8	Total for Pepper	

POTATO

1	Black Scurf	Rhizoctonia solani
1	Chemical Injury	
1	Enlarged Lenticels	
1	Hollow Heart	
1	Insects	
4	Insufficient Sample	
1	Internal Sprouting	
1	Pink Rot	Phytophthora sp.
1	Potato Spindle Tuber Viroid	
1	Soft Rot	Erwinia carotovora
1	Suspect Black Leg	Erwinia carotovora
2	Wireworms	
16	Total for Potato	

PUMPKIN

2	Environmental Stress	
1	Fusarium Crown and Foot Rot	Fusarium solani
1	Healthy	
2	Insufficient Sample	
3	Microdochium Blight	Microdochium tabacinum
1	Nutrient Deficiency	
1	Sphaerotheca Powdery Mildew	Sphaerotheca fuliginea
11	Total for Pumpkin	

ROSEMARY

4	Adventitious Roots	
4	Total for Rosemary	

SQUASH

1	Cucumber Mosaic Virus	
4	Fusarium Foot Rot	Fusarium solani
1	Insufficient Sample	
1	Phytophthora Crown and Root Rot	Phytophthora capsici
1	Rhizoctonia Stem and Root Rot	Rhizoctonia sp.
1	Squash Bugs	
9	Total for Squash	

SWEET CORN

1	Bacterial Top Rot	Erwinia chrysanthemi
3	Common Rust	Puccinia sorghi
1	Common Smut	Ustilago maydis
1	Environmental Stress	
1	Insects	
1	Low pH	
2	Sunscald	
10	Total for Sweet Corn	

SWEET POTATO

1	Fusarium Surface Rot	Fusarium solani
1	Total for Sweet Potato	

THYME

1	High pH	
1	Total for Thyme	

TOMATO

1	Air Pollution	
1	Bacterial Canker	Clavibacter michiganense
4	Bacterial Speck	Pseudomonas syringae pv. tomato
2	Bacterial Spot	Xanthomonas vesicatoria
1	Bacterial Stem Rot	Erwinia carotovora
5	Bacterial Wilt	Pseudomonas solanacearum
3	Buckeye Rot	Phytophthora parasitica
12	Chemical Injury	
4	Cultural Problem	
2	Early Blight	Alternaria solani
2	Environmental Stress	
1	Eriophyid Mites	
1	Fertilizer Burn	
1	Flea Beetles	
3	Fusarium Wilt	Fusarium oxysporum
1	Graywall	
4	Insufficient Information	
11	Insufficient Sample	
1	Lightning Injury	
1	Magnesium Deficiency	
1	Manganese Deficiency	
1	Mechanical Injury	
1	Mites	
1	Negative for Virus	
2	Nutrient Deficiency	
1	Phytophthora Stem Rot	Phytophthora sp.
1	Pith Necrosis	Pseudomonas corrugata
1	Rhizoctonia Stem Canker	Rhizoctonia solani
1	Root Knot Nematodes	Meloidogyne sp.
6	Septoria Leaf Spot	Septoria lycopersici
2	Stinkbugs	
1	Suspect Blossom-end Rot	
3	Suspect Chemical Injury	
1	Suspect Cultural Problem	
1	Suspect Fertilizer Burn	
1	Suspect Low pH	
1	Transplant Shock	
1	Verticillium Wilt	Verticillium albo-atrum
1	Virus	
5	Walnut Wilt	
1	Yellow Shoulder	

95	Total for Tomato	

TOMATO TREE

1	Insufficient Sample	
1	Powdery Mildew	Oidium sp.

2	Total for Tomato Tree	

TURNIP

1	Environmental Stress	

1	Total for Turnip	

WATERMELON

1	Cause of Problem Unknown	
1	Cultural Problem	
1	Fusarium Wilt	Fusarium oxysporum
1	Insufficient Sample	
1	Mechanical Injury	

5	Total for Watermelon	

ZUCCHINI

1	Squash Bugs	
1	Suspect Fusarium Foot Rot	Fusarium solani

2	Total for Zucchini	

TREE FRUITS AND NUTS

ALMOND

1 Borers	
----	
1 Total for Almond	

APPLE

1 Bird Damage	
1 Botryosphaeria Dieback	Botryosphaeria sp.
10 Cedar-Apple Rust	Gymnosporangium juniperi-virginianae
4 Cedar-Quince Rust	Gymnosporangium clavipes
2 Cultural Problem	
1 Environmental Stress	
4 Frogeye Leaf Spot	Physalospora obtusa
1 Frost Injury	
1 Giant European Hornets	
2 Insects	
2 Insufficient Information	
6 Insufficient Sample	
4 Lichens	
1 Powdery Mildew	Podosphaera leucotricha
4 Scab	Venturia inaequalis
1 Water Core	
----	
45 Total for Apple	

CHERRY

1 Aphids	
2 Black Knot	Dibotryon morbosum
1 Brown Rot	Monilinia fructicola
1 Cause of Problem Unknown	
1 Cherry Leaf Spot	Coccomyces hiemalis
1 Insects	
1 Suspect Cold Injury	
----	
8 Total for Cherry	

CHESTNUT

1	Insects	
1	Insufficient Information	
1	Insufficient Sample	
1	Earthball	Scleroderma geaster
4	Total for Chestnut	

CRABAPPLE

1	Botryosphaeria Canker	Botryosphaeria dothidea
1	Cedar-Quince Rust	Gymnosporangium clavipes
2	Total for Crabapple	

FRUIT TREES, MISC.

1	Japanese Beetles	
1	Tent Caterpillars	
2	Total for Fruit Trees, Misc.	

HEARTNUT

1	Bunch Disease	
1	Total for Heartnut	

MULBERRY

1	Popcorn Disease	Ciboria carunculoides
1	Scales	
2	Total for Mulberry	

NECTARINE

1	Curculios	
1	Total for Nectarine	

PEACH

1	Borers	
1	Botryosphaeria Dieback	Botryosphaeria sp.
2	Brown Rot	Monilinia fructicola
2	Cause of Problem Unknown	
1	Cicadas	
2	Constriction Canker	Phomopsis amygdali
1	Curculios	
2	Insects	
2	Insufficient Sample	
1	Negative for Plum Pox	
1	Nutrient Deficiency	
1	Ring Nematodes	Criconemella sp.
1	Suspect Brown Rot	Monilinia fructicola
1	White Rot	
1	Yellows	

20	Total for Peach	

PEAR

1	Cedar-Quince Rust	Gymnosporangium clavipes
2	Entomosporium Leaf Spot	Entomosporium mespili
1	Environmental Stress	
2	Frost Injury	
2	Insufficient Sample	
1	Normal Condition	
1	Normal Condition--Cluster Base	
1	Scab	Venturia pyrina

11	Total for Pear	

PECAN

1	Environmental Stress

1	Total for Pecan

PLUM

1	Black Knot	Dibotryon morbosum
1	Borers	
1	Cause of Problem Unknown	
1	Environmental Stress	

4	Total for Plum	

WALNUT

1	Bacterial Blight	Xanthomonas juglandis
1	Cylindrosporium Leaf Spot	Cylindrosporium juglandis
1	Downy Leaf Spot	Microstroma juglandis
1	Eriophyid Mites	
1	Lichens	
1	Sapwood Rot	Schizophyllum commune

6	Total for Walnut	

SMALL FRUITS

BLACKBERRY

2	Cane and Leaf Rust	Kuehneola uredinis
1	Chemical Injury	
1	Cold Injury	
4	Insufficient Sample	
1	Psyllids	
1	Raspberry Leaf Curl Virus	
1	Rosette Disease	Cercosporella rubi
1	Suspect Cold Injury	
12	Total for Blackberry	

BLUEBERRY

1	Botryosphaeria Stem Blight	Botryosphaeria dothidea
3	Insufficient Sample	
1	Mechanical Injury	
3	Stubby Root Nematodes	Trichodorus sp.
3	Vole Injury	
11	Total for Blueberry	

FIG

2	Insufficient Sample	
1	Phytophthora Fruit Rot	Phytophthora palmivora
1	Root Knot Nematode	Meloidogyne sp.
1	Sooty Mold	
5	Total for Fig	

GRAPE

5	Black Rot	Guignardia bidwellii
1	Botrytis Bunch Rot	Botrytis cinerea
4	Chemical Injury	
1	Cladosporium	Cladosporium sp.
1	Cultural Problem	
2	Downy Mildew	Plasmopara viticola
1	Environmental Stress	
1	Eriophyid Mites	
1	Eutypa Dieback	Eutypa lata
1	Flea Beetles	
1	Insufficient Information	
5	Insufficient Sample	
1	Normal Condition-Plant Hairs	
1	Nutrient Deficiency	
2	Phomopsis Cane and Leaf Blight	Phomopsis viticola
1	Phylloxera Galls	
1	Positive for Botrytis	Botrytis cinerea
1	Ripe Rot	Colletotrichum gloeosporioides
1	Rupestris Speckle	
1	Suspect Esca Disease	
4	Suspect Nutrient Deficiency	
1	Thrips	
1	Zonate Leaf Spot	Cristulariella moricola

39	Total for Grape	

RASPBERRY

1	Botryosphaeria Canker	Botryosphaeria dothidea
1	Cane Borers	
1	Cane Botrytis	Botrytis cinerea
1	Cause of Problem Unknown	
1	Chemical Injury	
1	Environmental Stress	
1	Insufficient Information	
1	Insufficient Sample	
1	Suspect Poor Pollination	
1	White Drupelet Disorder	

10	Total for Raspberry	

STRAWBERRY

1	Anthracnose	Colletotrichum acutatum
1	Cold Injury	
1	Cultural Problem	
1	Dendrophoma Leaf Blight	Dendrophoma obscurans
2	Environmental Stress	
1	Insufficient Information	
2	Mechanical Injury`	
1	Mites	
1	Negative for Nematodes	
1	Positive for Rhizoctonia	Rhizoctonia solani
2	Pythium Root Rot	Pythium sp.
1	Rhizoctonia Crown and Root Rot	Rhizoctonia solani
7	Rhizoctonia Root Rot	Rhizoctonia solani
2	Root Knot Nematodes	Meloidogyne sp.
1	Rootworms	

25	Total for Strawberry	

HERBACEOUS ORNAMENTALS AND INDOOR PLANTS

AGLAONEMA

1	Mechanical Injury	
1	Total for Aglaonema	

AJUGA

2	Alfalfa Mosaic Virus	
1	Cucumber Mosaic Virus	
1	Negative for Virus	
4	Total for Ajuga	

ALUMINUM PLANT

1	Air Pollution	
1	Total for Aluminum Plant	

ARTEMESIA

1	Environmental Stress	
1	Total for Artemisia	

BABY'S TEARS

1	Air Pollution	
1	Total for Baby's Tears	

BEGONIA

1	Botrytis Blight	Botrytis cinerea
2	Environmental Stress	
1	Normal Coloration	
1	Rhizoctonia Root Rot	Rhizoctonia solani
1	Rhizoctonia Stem Rot	Rhizoctonia solani
6	Total for Begonia	

BELLFLOWER

1	Fusarium Crown Rot	Fusarium solani
1	Total for Bellflower	

BLACKEYED SUSAN

1	Rhizoctonia Stem Rot	Rhizoctonia solani
1	Total for Blackeyed Susan	

BLEEDING HEART

1	Chemical Injury	
1	Total for Bleeding Heart	

BLETILLA

1	Mechanical Injury	
1	Total for Bletilla	

BLUEBEARD

1	Phytophthora Stem and Root Rot	Phytophthora sp.
1	Total for Bluebeard	

BUTTERFLY WEED

1	Rhizoctonia Stem Rot	Rhizoctonia solani
1	Total for Butterfly Weed	

CACTUS

1	Cultural Problem	
1	Macrophoma Cladode Rot	Macrophoma opunticola
2	Total for Cactus	

CALADIUM

1	Pythium Root Rot	Pythium sp.
1	Total for Caladium	

CALIBRACHOA

1	Rhizoctonia Root Rot	Rhizoctonia solani
1	Total for Calibrachoa	

CANNA

1	Cultural Problem
1	Koi eggs
2	Total for Canna

CANTERBURY BELLS

1	Suspect Chemical Injury
1	Total for Canterbury Bells

CATMINT

1	Cultural Problem
1	Total for Catmint

CHRYSANTHEMUM

1	Cultural Problem	
2	Environmental Stress	
1	Insects	
1	Insufficient Sample	
1	Pythium Root Rot	Pythium sp.
1	Thrips	
7	Total for Chrysanthemum	

CLEMATIS

2	Environmental Stress	
1	Insufficient Sample	
3	Total for Clematis	

CLIVIA

1	Coniothyrium Leaf Spot	Coniothyrium sp.
1	Total for Clivia	

COLEUS

1	Air Pollution	
1	Total for Coleus	

COLUMBINE

1	Leafminers	
1	Total for Columbine	

CONEFLOWER

1	Crown Rot-Unidentified Pathogen	
1	Environmental Stress	
1	Suspect Aster Yellows	
3	Total for Coneflower	

CORAL BELLS

1	Environmental Stress	
1	Pythium Root Rot	Pythium sp.
2	Total for Coral Bells	

COREOPSIS

1	Chemical Injury	
1	Environmental Stress	
1	Rhizoctonia Stem Rot	Rhizoctonia solani
1	Rust	Coleosporium inconspicuum
1	Suspect Chemical Injury	
1	Suspect Fertilizer Burn	
1	Suspect Rhizoctonia Root Rot	Rhizoctonia solani
7	Total for Coreopsis	

DAISY

2	Pythium Root Rot	Pythium sp.
2	Total for Daisy	

DAYLILY

2	Insufficient Sample	
2	Total for Daylily	

DELOSPERMA

1	Pythium Root Rot	Pythium sp.
1	Total for Delosperma	

DIANTHUS

1	Fusarium Stem Rot	Fusarium sp.
1	Total for Dianthus	

DRACAENA

1	Cultural Problem	
1	Total for Dracaena	

DUSTY MILLER

1 Suspect Chemical Injury
---
1 Total for Dusty Miller

EASTER LILY

1 Environmental Stress
---
1 Total for Easter Lily

ELEPHANT'S EAR

1 Sour Mulch
---
1 Total for Elephants Ear

EUCALYPTUS

2 Cause of Problem Unknown
2 Suspect Pythium Root Rot — Pythium sp.
---
4 Total for Eucalyptus

FERN

1 Cultural Problem
1 Environmental Stress
---
2 Total for Fern

FIG

1 Cultural Problem
1 Phytophthora Root Rot — Phytophthora sp.
---
2 Total for Fig

FLOWERING MAPLE

1 Nutrient Deficiency
---
1 Total for Flowering Maple

FOAMFLOWER

1 Environmental Stress
---
1 Total for Foamflower

FORGET-ME-NOT

1	Rhizoctonia Web Blight	Rhizoctonia solani
1	Total for Forget-me-not	

FOXGLOVE

1	Fusarium Root Rot	Fusarium sp.
1	Insufficient Sample	
1	Pythium Root Rot	Pythium sp.
3	Total for Foxglove	

FUCHSIA

1	Fungal Leaf Spot-Unidentified Pathogen	
1	Total for Fuchsia	

GAILLARDIA

2	Pythium Root Rot	Pythium sp.
1	Slime Mold	Didymium sp.
3	Total for Gaillardia	

GARDENIA

1	Mites	
1	Total for Gardenia	

GAURA

1	Cause of Problem Unknown	
1	Total for Gaura	

GERANIUM

1	Bacterial Leaf Spot	Pseudomonas cichorii
1	Rhizoctonia Root Rot	Rhizoctonia sp.
1	Suspect Fertilizer Burn	
1	Syringae Leaf Spot	Pseudomonas syringae
4	Total for Geranium	

GLADIOLUS

1	Penicillium Corm Rot	Penicillium gladioli

1	Total for Gladiolus	

GOURD

1	Pythium Damping-Off	Pythium sp.

1	Total for Gourd	

GYPSOPHILA

1	Suspect Chemical Injury	

1	Total for Gypsophila	

HELLEBORE

1	Botrytis Blight	Botrytis cinerea
1	Pythium Root Rot	Pythium sp.
1	Suspect Environmental Stress	

3	Total for Hellebore	

HOSTA

3	Anthracnose	Colletotrichum sp.
1	Botrytis Blight	Botrytis cinerea
1	Cause of Problem Unknown	
2	Environmental Stress	
2	Insufficient Sample	
1	Rootbound	
1	Scorch	
2	Slugs	
1	Southern Blight	Sclerotium rolfsii
1	Suspect Chemical Injury	

15	Total for Hosta	

IMPATIENS

2	Air Pollution	
2	Impatiens Necrotic Spot Virus	
1	Mites	
1	Pythium Root Rot	Pythium sp.
1	Pythium Stem Rot	Pythium sp.
2	Rhizoctonia Stem Rot	Rhizoctonia solani
1	Verticillium Wilt	Verticillium albo-atrum

10	Total for Impatiens	

INDOOR PLANT, UNKNOWN

1	Cultural Problem	

1	Total for Indoor Plant, Unknown	

IRIS

2	Cause of Problem Unknown	
1	Chemical Injury	
3	Heterosporium Leaf Spot	Heterosporium iridis
1	Soft Rot	Erwinia carotovora

7	Total for Iris	

JADE

1	Cultural Problem	

1	Total for Jade	

LARKSPUR

1	Cause of Problem Unknown	
1	Total for Larkspur	

LILY

1	Air Pollution	
1	Anthracnose	Colletotrichum sp.
1	Aphids	
3	Total for Lily	

LIRIOPE

1	Environmental Stress	
1	Scales	
1	Sunscorch	
3	Total for Liriope	

LOBELIA

1	Pythium Root Rot	Pythium sp.
1	Total for Lobelia	

LOTUS

1	Insects	
1	Total for Lotus	

MADAGASCAR PERIWINKLE

1	Botrytis Stem Canker	Botrytis cinerea
1	Environmental Stress	
6	Phytophthora Blight	Phytophthora parasitica
8	Total for Madagascar Periwinkle	

MALLOW

1	Rust	Puccinia malvacearum
1	Total for Mallow	

MARIGOLD

1	Alternaria Blight	Alternaria zinniae
1	Botrytis Blight	Botrytis cinerea
1	Crown Gall	Agrobacterium tumefaciens
1	Insufficient Sample	
1	Nutrient Deficiency	
5	Total for Marigold	

ORANGE

1	Cultural Problem
1	Mealybugs
1	Scales
3	Total for Orange

ORCHID

4	Cultural Problem
1	Fungus Gnats
1	Virus
6	Total for Orchid

OSTEOSPERMUM

1	Low pH
1	Total for Osteospermum

PALM

3	Cultural Problem
1	Leaf Exudate
4	Total for Palm

PANSY

1	Black Root Rot	Thielaviopsis basicola
1	Cultural Problem	
1	Healthy	
1	Insufficient Sample	
1	Nutrient Deficiency	
4	Phytophthora Crown Rot	Phytophthora parasitica
1	Phytophthora Crown and Root Rot	Phytophthora parasitica
10	Total for Pansy	

PENTAS

1	Suspect Environmental Stress	
1	Total for Pentas	

PEONY

1	Botrytis Blight	Botrytis cinerea
2	Cladosporium Stem and Leaf Blotch	Cladosporium paeoniae
1	Fungal Saprophyte	Trichoderma sp.
1	Insufficient Sample	
5	Total for Peony	

PERIWINKLE

1	Phoma Dieback	Phoma sp.
1	Phomopsis Dieback	Phomopsis livella
1	Phyllosticta Stem Rot and Leaf Spot	Phyllosticta sp.
3	Total for Periwinkle	

PETUNIA

1	Botrytis Blight	Botrytis cinerea
1	Chemical Injury	
1	Fertilizer Burn	
1	Normal Senescence	
1	Phytophthora Root and Stem Rot	Phytophthora parasitica
1	Pythium Root Rot	Pythium sp.
1	Tobacco Mosaic Virus	
1	Tomato Mosaic Virus	
8	Total for Petunia	

PHLOX

1	Bacterial Leaf Spot	Xanthomonas campestris
1	Black Root Rot	Thielaviopsis basicola
1	Environmental Stress	
1	Insufficient Sample	
1	Physiological Problem	
1	Pythium Root Rot	Pythium sp.
6	Total for Phlox	

PHYSOSTEGIA

1	Rhizoctonia Root Rot	Rhizoctonia solani
1	Total for Physostegia	

POINSETTIA

1	Air Pollution
2	Chemical Injury
3	Cultural Problem
1	Nutrient Imbalance
7	Total for Poinsettia

POPPY

1	Environmental Stress
1	Total for Poppy

POTENTILLA

1	Cultural Problem
1	Total for Potentilla

POTHOS

1	Insufficient Information
1	Total for Pothos

ROCK ROSE

2	Chemical Injury	

2	Total for Rock Rose	

RUDBECKIA

1	Environmental Stress	
1	Insufficient Sample	
1	Pythium Root Rot	Pythium sp.
1	Rhizoctonia Root Rot	Rhizoctonia solani
1	Rootbound	

5	Total for Rudbeckia	

SALVIA

1	Downy Mildew	Peronospora lami
1	Nutrient Deficiency	
1	Rhizoctonia Stem Rot	Rhizoctonia solani
1	Suspect Chemical Injury	

4	Total for Salvia	

SARCOCOCCA

1	Cause of Problem Unknown
1	Excess Soluble Salts
1	Root Swellings

3	Total for Sarcococca

SCHEFFLERA

1	Cultural Problem
2	Scales

3	Total for Schefflera

SEDUM

2	Chemical Injury
1	Environmental Stress
1	Overwatering

4	Total for Sedum

SNAPDRAGON

1	Four-lined Plant Bugs	
1	Suspect Boron Defiiciency	
1	Verticillium Wilt	Verticillium albo-atrum
3	Total for Snapdragon	

SPATHIPHYLLUM

1	Environmental Stress	
1	Total for Spathiphyllum	

SWEET FLAG

1	Aphids	
1	Total for Sweet Flag	

VERBENA

1	Cold Injury	
1	Cultural Problem	
1	Pythium Root Rot	Pythium sp.
1	Suspect Phosphorus Deficiency	
1	Whiteflies	
5	Total for Verbena	

VERONICA

1	Rootbound	
1	Suspect Nutrient Deficiency	
2	Total for Veronica	

WATERLILY

1	Cercospora Leaf Spot	Cercospora nelumbonis
1	Insufficient Sample	
2	Total for Waterlily	

WAX PLANT

1 Cause of Problem Unknown
---
1 Total for Wax Plant

WEEPING FIG

1 Phomopsis Gall — Phomopsis sp.
---
1 Total for Weeping Fig

ZINNIA

1 Fertilizer Burn
---
1 Total for Zinnia

WOODY ORNAMENTALS

AUCUBA

1	Botryosphaeria Dieback	Botryosphaeria sp.
2	Environmental Stress	
1	Insufficient Sample	
1	Phomopsis Dieback	Phomopsis sp.
1	Phyllosticta Leaf Spot	Phyllosticta aucubae
1	Suspect Chemical Injury	
7	Total for Aucuba	

AUTUMN OLIVE

2	Insufficient Sample	
2	Total for Autumn Olive	

AZALEA

4	Botryosphaeria Dieback	Botryosphaeria sp.
3	Cause of Problem Unknown	
1	Chemical Injury	
2	Cultural Problem	
7	Environmental Stress	
3	High pH	
3	Insects	
1	Insufficient Information	
11	Insufficient Sample	
10	Lacebugs	
3	Leaf and Flower Gall	Exobasidium vaccinii
2	Lichens	
1	Low pH	
1	Mechanical Injury	
1	Negative for Root Rot	
9	Phomopsis Dieback	Phomopsis sp.
1	Phomopsis Gall	Phomopsis sp.
7	Phytophthora Root Rot	Phytophthora cinnamomi
1	Poor Drainage	
3	Rootbound	
1	Suspect Environmental Stress	
1	Winter Injury	
76	Total for Azalea	

BAMBOO

1	Rust	Puccinia sp.
1	Sooty Mold	

2	Total for Bamboo	

BARBERRY

1	Cause of Problem Unknown
1	Webworms

2	Total for Barberry

BEAR'S BREECHES

1	Southern Blight	Sclerotium rolfsii

1	Total for Bear's Breeches	

BEARBERRY

1	Pythium Root Rot	Pythium sp.

1	Total for Bearberry	

BLUEBEARD

1	Environmental Stress

1	Total for Bluebeard

BOXWOOD

2	Cause of Problem Unknown	
1	Chemical Injury	
1	Cold Injury	
5	Cultural Problem	
1	Dagger Nematodes	Xiphinema sp.
3	Deep Planting	
28	English Boxwood Decline	Paecilomyces buxi
11	Environmental Stress	
1	High pH	
2	Insufficient Information	
28	Insufficient Sample	
4	Leafminers	
5	Lesion Nematodes	Pratylenchus sp.
2	Low pH	
2	Macrophoma Leaf Spot	Macrophoma candollei
3	Mites	
1	Nematodes	
17	Phytophthora Root Rot	Phytophthora parasitica
1	Pin Nematodes	Paratylenchus sp.
11	Ring Nematodes	Criconemella sp.
1	Sheath Nematodes	Hemicycliophora sp.
17	Spiral Nematodes	Rotylenchus sp.
1	Suspect Winter Injury	
9	Winter Injury	
1	Yellow Leaf Margins-Cause Unknown	

158	Total for Boxwood	

BUTTERFLY BUSH

1	Insects
2	Insufficient Sample
1	Mites
1	Suspect Insects

5	Total for Butterfly Bush

CAMELLIA

1	Anthracnose	Colletotrichum gloeosporioides
1	Botryosphaeria Dieback	Botryosphaeria sp.
1	Cause of Problem Unknown	
2	Cold Injury	
1	Eriophyid mites	
3	Phyllosticta Leaf Spot	Phyllosticta camelliae
2	Scales	
1	Suspect Winter Injury	
5	Winter Injury	

17	Total for Camellia	

CHERRYLAUREL

1	Black Vine Weevils	
2	Borers	
2	Cause of Problem Unknown	
1	Environmental Stress	
3	Insufficient Sample	
1	Leaf Glands	
1	Poor Drainage	

11	Total for Cherrylaurel	

CLEYERA

1	Environmental Stress	

1	Total for Cleyera	

COTONEASTER

2	Environmental Stress	
1	Insufficient Sample	

3	Total for Cotoneaster	

CRAPE MYRTLE

1	Insects	
1	Insufficient Sample	

2	Total for Crape Myrtle	

DAPHNE

2	Environmental Stress	
1	Insufficient Sample	
1	Suspect Environmental Stress	

4	Total for Daphne	

ENGLISH IVY

3	Anthracnose	Colletotrichum trichellum
1	Bacterial Stem Canker	Xanthomonas hederae
1	Environmental Stress	
2	Insufficient Sample	
2	Mites	
1	Phytophthora Root Rot	Phythophthora palmivora

10	Total for English Ivy	

EUONYMUS

1	Chemical Injury	
1	Cold Injury	
1	Crown Gall	Agrobacterium tumefaciens
1	Deep Planting	
2	Environmental Stress	
1	Frost Injury	
1	Insufficient Sample	
1	Mechanical Injury	
1	Oedema	
1	Powdery Mildew	Microsphaera euonymi-japonici
4	Scales	
1	Scorch	

16	Total for Euonymus	

FORSYTHIA

2	Environmental Stress	
1	Excess Mulch	
1	Insufficient Sample	
1	Phomopsis Gall	Phomopsis sp.
1	Suspect Chemical Injury	
1	Suspect Rhizoctonia Web Blight	Rhizoctonia solani

7	Total for Forsythia	

HEMLOCK

1	Environmental Stress

1	Total for Hemlock

HOLLY

19	Black Root Rot	Thielaviopsis basicola
1	Borers	
1	Botryosphaeria Dieback	Botryosphaeria sp.
2	Cercospora Leaf Spot	Cercospora sp.
3	Cold Injury	
1	Cultural Problem	
11	Environmental Stress	
1	Establishment Failure	
1	Frost Injury	
1	Giant European Hornets	
1	High pH	
2	Insects	
22	Insufficient Sample	
1	Lesion Nematodes	Pratylenchus sp.
1	Negative for Root Disease	
1	Phytophthora Root Rot	Phytophthora cinnamomi
1	Pythium Root Rot	Pythium sp.
1	Rhizoctonia Root Rot	Rhizoctonia solani
1	Rooting Faillure	
2	Scales	
2	Sooty Mold	
2	Spine Spot	
1	Suspect Nutrient Deficiency	
14	Winter Injury	

93	Total for Holly	

HONEYSUCKLE

1	Botryosphaeria Dieback	Botryosphaeria sp.

1	Total for Honeysuckle	

HYDRANGEA

1	Low pH
1	Mites

2	Total for Hydrangea

HYPERICUM

1	Phytophthora Stem and Root Rot	Phytophthora cinnamomi

1	Total for Hypericum	

INKBERRY

1 Environmental Stress	
3 Insufficient Sample	
1 Phytophthora Root Rot	Phytophthora cinnamomi
5 Total for Inkberry	

JASMINE

1 Cultural Problem	
1 Total for Jasmine	

JUNIPER

20 Environmental Stress	
1 Insufficient Information	
12 Insufficient Sample	
11 Mites	
2 Phomopsis Tip Blight	Phomopsis juniperovora
2 Phytophthora Root Rot	Phytophthora sp.
3 Pythium Root Rot	Pythium sp.
2 Rootbound	
1 Suspect Salt Damage	
54 Total for Juniper	

LAUREL

2 Botryosphaeria Dieback	Botryosphaeria sp.
1 Cercospora Leaf Spot	Cercospora kalmiae
3 Insufficient Sample	
1 Rootbound	
1 Suspect Cultural Problem	
8 Total for Laurel	

LEUCOTHOE

1 Environmental Stress	
1 Winter Injury	
2 Total for Leucothoe	

LILAC

2	Bacterial Blight	Pseudomonas syringae
1	Cause of Problem Unknown	
2	Chemical Injury	
2	Environmental Stress	
1	Insects	
1	Insufficient Information	
4	Insufficient Sample	
2	Phytophthora Root Rot	Phytophthora sp.
1	Scorch	
1	Suspect Bacterial Blight	Pseudomonas syringae

17	Total for Lilac	

MAPLE

1	Environmental Stress	

1	Total for Maple	

NANDINA

2	Environmental Stress	
1	Suspect Environmental Stress	

3	Total for Nandina	

NINEBARK

1	Powdery Mildew	Sphaerotheca sp.

1	Total for Ninebark	

OLEANDER

1	Bacterial Gall	Pseudomonas syringae pv. savastanoi

1	Total for Oleander	

PAXISTIMA

1	Phytophthora Root Rot	Phytophthora sp.

1	Total for Paxistima	

PHOTINIA

2	Cause of Problem Unknown	
1	Chemical Injury	
4	Entomosporium Leaf Spot	Entomosporium mespili
4	Environmental Stress	
2	Insufficient Sample	
1	Powdery Mildew	Oidium sp.
1	Suspect Botryosphaeria Canker	Botryosphaeria sp.
1	Suspect Winter Injury	

16	Total for Photinia	

PIERIS

1	Botryosphaeria Dieback	Botryosphaeria sp.
1	Environmental Stress	
1	Phytophthora Root Rot	Phytophthora cinnamomi

3	Total for Pieris	

PLANTS, MISCELLANEOUS

1	Artillery Fungus	Sphaerobolus stellatus
1	Chemical Injury	
1	Environmental Stress	
2	Insects	
1	Insufficient Sample	
1	Mites	

7	Total for Plants, Miscellaneous	

PRIVET

1	Environmental Stress	
1	Phytophthora Root Rot	Phytophthora sp.
1	Winter Injury	

3	Total for Privet	

QUINCE

1	Cause of Problem Unknown	

1	Total for Quince	

RHODODENDRON

2	Black Vine Weevils	
1	Borers	
13	Botryosphaeria Dieback	Botryosphaeria sp.
2	Botryosphaeria Leaf Spot	Botryosphaeria sp.
3	Cause of Problem Unknown	
6	Cercospora Leaf Spot	Cercospora handelii
8	Environmental Stress	
1	Galls-Cause Unknown	
2	Gray Blight	Pestalotia sydowniana
1	Insects	
10	Insufficient Sample	
4	Lacebugs	
1	Low pH	
1	Negative for Phytophthora	
2	Negative for Root Disease	
2	Pestalotia Leaf Spot	Pestalotia rhododendri
2	Phomopsis Dieback	Phomopsis sp.
1	Phytophthora Root Rot	Phytophthora sp.
1	Phytophthora Stem Rot	Phytophthora cinnamomi
1	Poor Drainage	
1	Scorch	
2	Winter Injury	

67	Total for Rhododendron	

ROSE

7	Black Spot	Diplocarpon rosae
3	Chemical Injury	
1	Cold Injury	
2	Common Canker	Coniothyrium fuckelii
1	Frost Injury	
1	Insects	
1	Insufficient Sample	
2	Mites	
1	Phomopsis Cane Canker	Phomopsis sp.
2	Powdery Mildew	Sphaerotheca pannosa
1	Red-necked Cane Borers	
1	Rose Mosaic Virus	
1	Secondary Decay	
2	Suspect Chemical Injury	
1	Suspect Insect Injury	
1	Suspect Virus	
1	Thrips	
1	Virus	

30	Total for Rose	

RUSSIAN OLIVE

1 Insufficient Sample
---
1 Total for Russian Olive

SANTOLINA

1 Rhizoctonia Root Rot	Rhizoctonia sp.

---
1 Total for Santolina

SHRUB, UNKNOWN

1 Insects
---
1 Total for Shrub, Unknown

SHRUBS, MISCELLANEOUS

1 Artillery Fungus	Sphaerobolus stellatus

---
1 Total for Shrubs, Miscellaneous

SILVERBELL

1 Insufficient Sample
---
1 Total for Silverbell

SPIRAEA

1 Chemical Injury
1 Environmental Stress
---
2 Total for Spiraea

STEWARTIA

1 Environmental Stress
---
1 Total for Stewartia

STRANVAESIA

1 Insufficient Sample
---
1 Total for Stranvaesia

SUMAC

1	Normal Condition	
1	Total for Sumac	

SWEETSHRUB

1	Negative for Root Disease	
1	Total for Sweetshrub	

VIBURNUM

1	Cause of Problem Unknown	
1	Environmental Stress	
1	Insufficient Sample	
1	Oedema	
1	Vole Injury	Microtus pinetorum
1	Winter Injury	
6	Total for Viburnum	

WEIGELA

1	Environmental Stress	
1	Insufficient Sample	
1	White Rot	
3	Total for Weigela	

WISTERIA

1	Insufficient Information	
1	Insufficient Sample	
2	Total for Wisteria	

WITCHHAZEL

1	Botryosphaeria Dieback	Botryosphaeria sp.
1	Phyllosticta Leaf Blight	Phyllosticta hamamelidis
2	Total for Witchhazel	

YEW

3	Environmental Stress	
1	Insufficient Information	
5	Insufficient Sample	
6	Phytophthora Root Rot	Phytophthora parasitica
2	Poor Drainage	

17	Total for Yew	

TREES

ARBORVITAE

1	Cause of Problem Unknown	
6	Environmental Stress	
1	Insufficient Information	
4	Insufficient Sample	
1	Mites	
1	Phytophthora Root Rot	Phytophthora sp.
1	Web Blight	Rhizoctonia solani
15	Total for Arborvitae	

ASH

1	Anthracnose	Discula sp.
1	Botryosphaeria Canker	Botryosphaeria sp.
1	Environmental Stress	
1	Insufficient Sample	
1	Rust	Puccinia peridermiospora
5	Total for Ash	

BALDCYPRESS

1	Eriophyid Mites	
1	Mites	
2	Total for Baldcypress	

BEECH

1	Anthracnose	Discula umbrinella
1	Eriophyid Mites	
1	Hypoxylon Canker	Hypoxylon deustum
1	Insects	
4	Total for Beech	

BIRCH

2	Aphids	
2	Environmental Stress	
1	Insects	
1	Insufficient Sample	
1	Leafminers	
1	Scales	
8	Total for Birch	

BLACK GUM

1	Mycosphaerella Leaf Spot	Mycosphaerella nyssaecola
1	Sooty Mold	
1	Wood Decay	
3	Total for Black Gum	

BOXELDER

1	Insect Galls	
1	Wood Decay	
2	Total for Boxelder	

BUCKEYE

1	Guignardia Blotch	Guignardia aesculi
1	Total for Buckeye	

CEDAR

1	Environmental Stress	
1	Insects	
1	Insufficient Sample	
1	Mechanical Injury	
4	Total for Cedar	

COTTONWOOD

1	Cause of Problem Unknown	
1	Total for Cottonwood	

CRYPTOMERIA

2	Environmental Stress	
1	Phytophthora Root Rot	Phytophthora sp.
3	Total for Cryptomeria	

CYPRESS

1	Cause of Problem Unknown	
1	Crystalline Residue	
1	Deep Planting	
2	Environmental Stress	
1	Insects	
5	Insufficient Sample	
1	Negative for Root Pathogens	
2	Pestalotiopsis Tip Blight	Pestalotiopsis funerea
1	Phytophthora Root Rot	Phytophthora cinnamomi
3	Seasonal Needle Drop	
1	Suspect Environmental Stress	
2	Suspect Seiridium Canker	Seiridium sp.
1	Transplant Shock	
2	Winter Injury	

24	Total for Cypress	

DOGWOOD

2	Anthracnose	Colletotrichum gloeosporioides
1	Botryosphaeria Canker	Botryosphaeria sp.
1	Botryosphaeria Dieback	Botryosphaeria sp.
2	Cause of Problem Unknown	
2	Chemical Injury	
1	Cultural Problem	
1	Deep Planting	
6	Discula Anthracnose	Discula destructiva
11	Environmental Stress	
1	Excess Mulch	
3	Insects	
11	Insufficient Sample	
1	Lichens	
2	Mechanical Injury	
1	Phomopsis Dieback	Phomopsis sp.
3	Phyllosticta Leaf Spot	Phyllosticta sp.
1	Phytophthora Root Rot	Phytophthora parasitica
1	Pith	
28	Powdery Mildew	Oidium sp.
2	Septoria Leaf Spot	Septoria cornicola
26	Spot Anthracnose	Elsinoe corni
1	Suspect Chemical Injury	
1	Suspect Cold Injury	
1	Thrips	

110	Total for Dogwood	

EASTERN RED CEDAR

1	Insects	
1	Insufficient Information	
1	Insufficient Sample	
1	Mites	
1	Phomopsis Tip Blight	Phomopsis juniperovora
5	Total for Eastern Red Cedar	

ELM

1	Cause of Problem Unknown	
1	Eriophyid Mites	
2	Insects	
1	Insufficient Sample	
2	Negative for Dutch Elm Disease	
1	Thrips	
8	Total for Elm	

FALSECYPRESS

2	Environmental Stress	
2	Insufficient Sample	
1	Mites	
4	Seiridium Canker	Seiridium unicorne
9	Total for Falsecypress	

FIR

1	Cause of Problem Unknown	
1	Cultural Problem	
3	Environmental Stress	
1	Insufficient Sample	
1	Phytophthora Root Rot	Phytophthora cinnamomi
7	Total for Fir	

FRANKLINIA

1	Insufficient Sample	
1	Total for Franklinia	

FRINGE TREE

1	Phyllosticta Leaf Spot	Phyllosticta chionanthe
1	Total for Fringe Tree	

HACKBERRY

1	Leaf Gall Insects	
1	Total for Hackberry	

HAWTHORN

7	Cedar-Quince Rust	Gymnosporangium clavipes
1	Suspect Nutrient Imbalance	
8	Total for Hawthorn	

HEMLOCK

1	Cause of Problem Unknown	
1	Chemical Injury	
1	Drought	
5	Environmental Stress	
1	Insufficient Sample	
2	Mites	
2	Woolly Adelgids	
13	Total for Hemlock	

HICKORY

4	Leaf Stem Gall Insects	
4	Total for Hickory	

HONEYLOCUST

2	Plant Bugs	
2	Total for Honeylocust	

HORNBEAM

1	Secondary Organism	Melanconium sp.
1	Total for Hornbeam	

HORSE CHESTNUT

1	Guignardia Blotch	Guignardia aesculi
1	Total for Horse Chestnut	

JUNIPER

1 Environmental Stress
2 Negative for Root Disease
---
3 Total for Juniper

KATSURATREE

1 Environmental Stress
---
1 Total for Katsuratree

LINDEN

1 Environmental Stress
---
1 Total for Linden

MAGNOLIA

1 Cause of Problem Unknown
4 Environmental Stress
2 Insufficient Information
2 Insufficient Sample
1 Lacebugs
1 Leaf Hairs-Normal Condition
2 Leafminers
1 Physiological Problem
1 Powdery Mildew — Oidium sp.
1 Sassafras Weevils
7 Scales
5 Sooty Mold
1 Suspect Root Problem
4 Winter Injury
---
33 Total for Magnolia

MAPLE

15	Anthracnose	Discula sp.
1	Bacterial Wetwood	
2	Botryosphaeria Dieback	Botryosphaeria sp.
4	Cause of Problem Unknown	
7	Environmental Stress	
1	Eriophyid Mites	
1	Frost Injury	
2	Girdling Roots	
2	Hail Injury	
1	Heart Rot	
1	Insufficient Information	
12	Insufficient Sample	
1	Japanese Beetles	
3	Leafhoppers	
1	Nectria Canker	Nectria galligena
1	Negative for Anthracnose	
1	Negative for Bark Pathogens	
1	Negative for Root Pathogens	
2	Negative for Verticillium Wilt	
1	Phomopsis Dieback	Phomopsis sp.
1	Phytophthora Root Rot	Phytophthora sp.
8	Purple-eye Leaf Spot	Phyllosticta minima
2	Scorch	
1	Suspect Girdling Roots	
1	Suspect Nutrient Deficiency	
1	Suspect Rodent Injury	
3	Verticillium Wilt	Verticillium dahliae
2	Wood Decay	

79	Total for Maple	

OAK

3	Anthracnose	Apiognomonia sp.
1	Botryosphaeria Dieback	Botryosphaeria sp.
2	Cause of Problem Unknown	
6	Chemical Injury	
1	Cultural Problem	
1	Cylindrcladium Root Rot	Cylindrocladium sp.
5	Environmental Stress	
1	Eriophyid Mites	
1	Fall Coloration	
3	Insects	
4	Insufficient Sample	
3	Iron Chlorosis	
1	Lacebugs	
2	Leafminers	
1	Mechanical Injury	
1	Mites	
14	Oak Leaf Blister	Taphrina caerulescens
1	Oak Leaf Button Galls	
1	Scorch	
1	Sooty Mold	
1	Squirrel Twig Pruning	
2	Suspect Chemical Injury	
1	Suspect Mechanical Injury	
9	Tubakia Leaf Spot	Tubakia dryina
1	Vein Pocket Galls	
2	Wood Decay	

69	Total for Oak	

ORNAMENTAL CHERRY

1	Bacterial Leaf Spot	Pseudomonas syringae
2	Cause of Problem Unknown	
1	Chemical Injury	
3	Environmental Stress	
3	Insufficient Information	
2	Insufficient Sample	
1	Phomopsis Canker	Phomopsis sp.
2	Tent Caterpillars	
1	Winter Injury	
1	Wood Decay	Irpex lacteus

17	Total for Ornamental Cherry	

ORNAMENTAL CRABAPPLE

1	Suspect Nutrient Imbalance

1	Total for Ornamental Crabapple

ORNAMENTAL PEAR

1	Black Rot	Botryosphaeria obtusa
1	Cause of Problem Unknown	
2	Cedar-Hawthorn Rust	Gymnosporangium globosum
4	Cultural Problem	
8	Environmental Stress	
2	Fire Blight	Erwinia amylovora
1	Frost Injury	
1	Healthy	
7	Insufficient Sample	
1	Pear Leaf Blister Mites	
2	Suspect Chemical Injury	
1	Suspect Entomosporium Leaf Spot	Entomosporium mespili
1	Suspect Nutrient Imbalance	

32	Total for Ornamental Pear	

ORNAMENTAL PLUM

1	Chemical Injury

1	Total for Ornamental Plum

PEAR

1	Insufficient Information

1	Total for Pear

PINE

2	Atropellis Twig Canker	Atropellis sp.
1	Bark Beetles	
3	Coleosporium Needle Rust	Coleosporium sp.
1	Cultural Problem	
1	Diplodia Tip Blight	Diplodia pinea
3	Eastern Gall Rust	Cronartium quercuum
8	Environmental Stress	
1	Gall Rust	
1	Insects	
7	Insufficient Sample	
1	Negative for Root Pathogens	
1	Pales Weevils	
1	Physiological Needle Drop	
1	Phytophthora Root Rot	Phytophthora sp.
2	Pine Tip Moths	
1	Poor Drainage	
2	Procerum Root Disease	Leptographium procerum
1	Seasonal Needle Drop	
1	Sooty Mold	
1	Suspect Eastern Gall Rust	Cronartium quercuum
1	Suspect Eriophyid Mites	
1	Suspect Mechanical Injury	
1	Suspect Vole Injury	
1	Winter Fleck	

44	Total for Pine	

PISTACHE

1	Verticillium Wilt	Verticillium albo-atrum

1	Total for Pistache	

PLUM

1	Black Knot	Dibotryon morbosum

1	Total for Plum	

POPLAR

2	Botryosphaeria Canker	Botryosphaeria dothidea
1	Environmental Stress	
1	Insufficient Sample	

4	Total for Poplar	

PRUNUS

1	Black Knot	Dibotryon morbosum
1	Environmental Stress	
2	Total for Prunus	

REDBUD

1	Botryosphaeria Dieback	Botryosphaeria dothidea
1	Botrytis Blight	Botrytis cinerea
1	Frost Injury	
1	Insufficient Sample	
1	Suspect Botryosphaeria Dieback	Botryosphaeria dothidea
1	Suspect Chemical Injury	
1	Wood Decay	
7	Total for Redbud	

SERVICEBERRY

1	Environmental Stress	
1	Total for Serviceberry	

SNOWBELL

1	Environmental Stress	
1	Total for Snowbell	

SOURWOOD

1	Cercospora Leaf Spot	Cercospora oxydendri
1	Total for Sourwood	

SPRUCE

1	Cause of Problem Unknown	
1	Cultural Problem	
7	Environmental Stress	
1	Frost Injury	
1	Gall Adelgids	
2	Insects	
5	Insufficient Sample	
12	Mites	
5	Phytophthora Root Rot	Phytophthora sp.
4	Rhizosphaera Needle Blight	Rhizosphaera kalkhoffii
1	Stigmina Needle Cast	Stigmina verrucosa
1	Suspect Environmental Stress	
1	Suspect Mites	
42	Total for Spruce	

SWEET GUM

1	Wood Decay	
1	Total for Sweet Gum	

SYCAMORE

3	Anthracnose	Gnomonia platani
1	Wood Decay	
4	Total for Sycamore	

TREE, UNKNOWN

1	Gall Mites	
1	Leaf Galls	
2	Total for Tree, Unknown	

TREES, MISCELLANEOUS

2	Chemical Injury	
2	Total for Trees, Miscellaneous	

TULIP TREE

1	Cause of Problem Unknown	
1	Galls-Wound Response	
1	Insufficient Sample	
3	Total for Tulip Tree	

WILLOW

1	Botryosphaeria Canker	Botryosphaeria dothidea
2	Botryosphaeria Dieback	Botryosphaeria sp.
1	Caterpillars	
1	Cause of Problem Unknown	
1	Cytospora Canker	Cytospora sp.
1	Environmental Stress	
1	Fasciation	
1	Insects	
1	Insufficient Information	
1	Insufficient Sample	
1	Pleospora on Twigs	Pleospora herbarum
1	Rust	Melampsora epitea
1	Suspect Botryosphaeria Canker	Botryosphaeria dothidea

14	Total for Willow	

YELLOWWOOD

1	Insufficient Sample

1	Total for Yellowwood

TURF

BENTGRASS

1	Anthracnose	Colletotrichum graminicola
1	Black Layer	
1	Chemical Injury	
1	Environmental Stress	
2	Excess Thatch	
1	Insufficient Sample	
1	Pink Patch	Limonomyces roseipellis
1	Pythium Root Rot	Pythium sp.
4	Ring Nematodes	Criconemella sp.
2	Stubby Root Nematodes	Trichodorus sp.
2	Take-all	Gaeumannomyces graminis
1	Yellow Patch	Rhizoctonia cerealis

18	Total for Bentgrass	

BERMUDAGRASS

1	Helminthosporium Blight	Helminthosporium sp.
1	Weed Encroachment	

2	Total for Bermudagrass	

BLUEGRASS

1	Cultural Problem	
1	Environmental Stress	
1	Excess Thatch	
1	Melting Out	Drechslera poae
1	Rust	Puccinia graminis
1	Suspect Brown Patch	Rhizoctonia solani

6	Total for Bluegrass	

CLOVER

1	Environmental Stress	

1	Total for Clover	

FESCUE

14	Brown Patch	Rhizoctonia solani
1	Cause of Problem Unknown	
3	Chemical Injury	
2	Cultural Problem	
2	Environmental Stress	
4	Excess Thatch	
1	Healthy	
1	Helminthosporium Blight	Drechslera dictyoides
5	Insufficient Sample	
1	Poor Drainage	
1	Rust	Puccinia graminis
1	Slime Mold	Physarum sp.
1	White Patch	Melanotus philipsii

37	Total for Fescue	

RYEGRASS

2	Brown Patch	Rhizoctonia solani
1	Cause of Problem Unknown	
1	Cool Season Brown Patch	Rhizoctonia cerealis
1	Fusarium Seedling Blight	Fusarium tricinctum

5	Total for Ryegrass	

ST. AUGUSTINEGRASS

1	Gray Leaf Spot	Pyricularia grisea
1	Suspect Take-All	Gaeumannomyces graminis var. graminis

2	Total for St. Augustinegrass	

TURFGRASS

10	Anthracnose	Colletotrichum graminicola
9	Brown Patch	Rhizoctonia solani
2	Cultural Problem	
1	Environmental Stress	
4	Excess Thatch	
1	Fairy Ring	
2	Gray Leaf Spot	Pyricularia grisea
1	Heat Stress	
1	Helminthosporium Blight	Drechslera dictyoides
1	Helminthosporium Leaf Spot	Bipolaris sorokiniana
2	Insufficient Information	
4	Insufficient Sample	
5	Lance Nematodes	Hoplolaimus sp.
2	Low pH	
1	Negative for Disease	
1	Powdery Mildew	Erysiphe graminis
2	Red Thread	Laetisaria fuciformis
3	Ring Nematodes	Criconemella sp.
2	Rust	Puccinia graminis
2	Slime Mold	
1	Sour Mulch	
1	Suspect Brown Patch	Rhizoctonia solani
1	Suspect Chemical Injury	
1	Suspect Spiral Nematodes	Helicotylencus sp.
2	Weed Encroachment	

62	Total for Turfgrass	

ZOYSIA

1	Cause of Problem Unknown	
1	Excess Thatch	
1	High pH	
1	Insufficient Sample	
1	Rust	Puccinia zoysiae
2	Zoysia Patch	Rhizoctonia solani

7	Total for Zoysia	

WEEDS AND NONPLANT MATERIAL

ARABIDOPSIS

1	Thrips	
1	Total for Arabidopsis	

DEAD NETTLE

1	Phytophthora Root Rot	Phytophthora sp.
1	Suspect Insects	
2	Total for Dead Nettle	

MULCH

2	Sour Mulch	
2	Total for Mulch	

PLANTAIN

2	Phomopsis Canker	Phomopsis sp.
2	Total for Plantain	

SUBSTANCE, UNKNOWN

1	Cottony seed mass from poplars	Populus sp.
1	Total for Substance, Unknown	

VIRGINIA BUTTONWEED

1	Fusarium Stem Rot	Fusarium sp.
1	Total for Virginia Buttonweed	

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Summary of Identifications
2000

Higher Plants (46)

Family: Anacardiaceae	
Rhus sp.	Sumac
Family: Aquifoliaceae	
Ilex sp.	Holly
Family: Araliaceae	
Aralia spinosa	Devil's Walking Stick
Family: Caprifoliaceae	
Lonicera fragrantissima	Winter Honeysuckle
Lonicera morrowi	Morrow's Honeysuckle
Viburnum x burkwoodii	Burkwood Viburnum
Family: Cornaceae	
Cornus kousa	Kousa Dogwood
Family: Cucurbitaceae	
Cucumis melo	Armenian Cucumber
Family: Cupressaceae	
Chamaecyparis thyoides	Atlantic Whitecedar
Family: Elaeagnaceae	
Elaeagnus pungens	Thorny Eleagnus
Family: Ericaceae	
Rhodendron calendulaceum	Flame Azalea
Family: Fabaceae	
Cassia obtusifolia	Sicklepod
Cladrastis lutea	Yellowwood
Family: Fagaceae	
Castanea molissima	Chestnut
Family: Gramineae	
Avena sp.	Oat
Family: Hamamelidaceae	
Hamamelis sp.	Witchhazel
Family: Juncaceae	
Juncus secundus	Rush
Family: Liliaceae	
Chamaelireum luteum	Devil's Bit

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Family: Magnoliaceae	
Magnolia acuminata	Cucumbertree
Magnolia stellata	Star Magnolia
Family: Oleaceae	
Syringa vulgaris	Common Lilac
Family: Pinaceae	
Pinus thunbergii	Japanese Black Pine
Family: Poaceae	
Eremochloa ophiuroides	Centipede Grass
Poa annua (2)	Annual Bluegrass
Unknown sp.	Weed
Family: Rosaceae	
Cydonia oblonga	Quince
Geum canadense	White Avens
Malus sp. Rome Beauty	Apple
Prunus sp. (2)	Ornamental Cherry
Prunus cerasifera	Plum
Family: Solanaceae	
Solanum capsicastrum	False Jerusalem Cherry
Family: Taxaceae	
Taxus baccata Repandens	English Yew
Family: Taxodiaceae	
Cunninghamia lanceolata	Chinafir
Taxodium distichum	Bald Cypress
Family: Ulmaceae	
Celtis occidentalis	Common Hackberry
Family: Unknown	
Weed, Unknown (2)	
Insufficient Sample (2)	
Family: Verbenaceae	
Vitex agnus-castus	Chastetree
Family: Violaceae	
Viola sp.	Violet

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Fungi (25)

Class: Ascomycetes

Hypoxylon sp.	
Peziza repanda	Spreading Brown Cup Fungus
Scorias spongiosa (2)	Sooty Mold

Class: Basidiomycetes

Chlorophyllum molybdites	Chlorophyllum
Ganoderma lucidum	Varnished Conk
Phaeolus schweinitzii	Dye Polypore
Phytogaster sp.	Polypore
Psathyrella sp.	Psathyrella
Unknown sp.	Polypore

Class: Gasteromycetes

Scleroderma geaster (3)	Earthball
Sphaerobolus stellatus (3)	Artillery Fungus

Class: Hyphomycetes

Cladosporium sp.	Cladosporium sp.
Penicillium sp.	Penicillium sp.

Class: Myxomycetes

Fuligo sp. (3)	Slime Mold
Physarum cinereum (2)	Slime Mold

Class: Unknown

Insufficient Sample	
Unidentified Fungus	

Mosses (1)

Family: Brachytheciaceae

Oxyrrhynchium hians	Gaping Beakmoss

All Others (3)

Algae

Other Invertebrate, Mite, Tick

Class: Nematophora

Gordius robustus	Horsehair Worms

Unable to Identify