



COOPERATIVE EXTENSION SERVICE
UNIVERSITY OF KENTUCKY • COLLEGE OF AGRICULTURE

PLANT DISEASES

in

KENTUCKY

Plant Disease Diagnostic Laboratory Summary

1992

by:

**P. R. Bachi
B. C. Eshenaur
J. R. Hartman
D. E. Hershman
W. C. Nesmith
P. C. Vincelli**

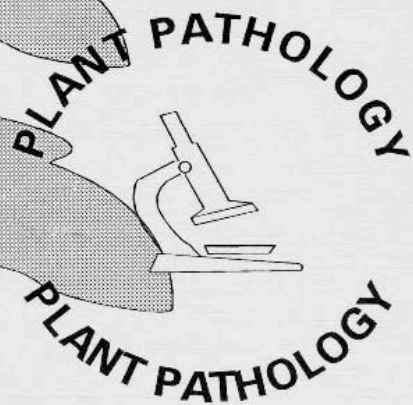


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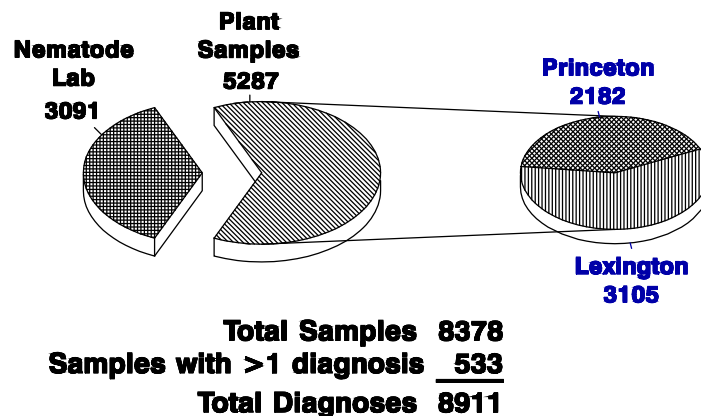
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INTRODUCTION

The Plant Disease Diagnostic Lab (Lexington and Princeton) handled 5287 plant samples and 3091 nematode soil samples during 1992. Samples with more than one problem numbered 496, bringing the total number of actual diagnoses to 6665. The Lexington Lab diagnosed 3105 specimens. The Princeton Lab's specimens totaled 5273; of this number 2182 were plant samples and 3091 were soil samples submitted, exclusively, for soybean cyst nematode analysis. A total of 462 of the nematode samples were submitted by researchers and 2629 were submitted by commercial growers through the county Extension offices.

These numbers are summarized in Figure 1 below:

PLANT DISEASE DIAGNOSTIC LAB, TOTALS 1992



HIGHLIGHTS

The year of 1992, overall, was a good year for plants but there were some periods which boldly tested their endurance. The winter period was mild which helped small grains to green-up ahead of schedule but a sudden cold snap which occurred the previous fall (November 19, 1991) killed the Canola crop and injured many landscape plants, especially azalea and spruce. Spring was characterized by periodic cold temperatures well up into June. This caused injury to many greenhouse and plantbed-grown tobacco plants as well as many ornamentals. Zinc deficiency symptoms in corn and phosphorus deficiency symptoms in tobacco were also encouraged by the abnormally cool temperatures. Along with the cold periods there was below normal rainfall in the spring in the western portion of the state but the central and eastern portions were more normal. During the summer the cooler than normal temperatures continued as indicated by the weather station at Princeton not recording any days over 100 F. The rainfall was more than normal for the summer. Fall seemed to arrive early in mid-August but temperatures climbed once again in early September. Precipitation was relatively low which allowed for many days of field preparation and planting of forages and small grains. Late fall was not marked by any sudden drops in temperature which allowed for steady growth of small grains and gradual hardening-off for landscape plants.

The tobacco "float system" found its way on to more and more farms but early-season cold snaps tested the growers skills as greenhouse managers. We have now cataloged twenty disease organisms/disorders associated with this method of tobacco transplant production, many which are new to the state. Although **Black Shank** once more caused severe problems in many fields across the state, this was not the main disease story. That distinction was held by **Blue Mold** which reared its ugly head first, for a switch, in the western part of the state. The disease infected plantbeds and fields in nearly all western counties and was perhaps as extensive as in 1979. After the fungus got a foot-hold in the west it was only a matter of time before the central and eastern portions of the state were extensively infected.

The other major story in tobacco was the large increase plants infected with viruses. **Tobacco Etch, Streak, Virus Complex, and Tomato Spotted Wilt** each showed a large increase in their occurrence.

Corn problems were relatively few and the good growing conditions allowed for record corn yields across the state. **Northern Leaf Blight**, rarely diagnosed over the last decade, was diagnosed regularly during the mid to late growing season. Diplodia Ear Rot became prevalent later in the year. Stalk Rot diseases were noticeably absent.

Soybean problems, as for the last few years, were at a low level. **Soybean Cyst Nematode** remains the major yield-limiting disease factor in the majority of soybean producing acreage. **Sudden Death Syndrome** was also seen in many areas of western Kentucky but overall yields were not affected because symptoms of the disease came along after the crop was already made. **Brown Spot** starting infecting plants much earlier and more severely because of the abundant moisture during the growing season.

Small grains, primarily wheat, were not plagued with as many problems as in the past several years. Periodic cold spells provided much damaged tissue and resulted in colonization by the fungi which cause diseases such as **Septoria Leaf Complex, and Glume Blotch**. Head Scab was very much reduced because rains did not occur for the most part during the flowering period.

Forages in general did not suffer from any major disease problems. Root rots of alfalfa, caused by species of *Phytophthora* and *Aphanomyces*, continued to be monitored and were found causing damage in some fields.

On vegetables the cool spring and early summer temperatures favored diseases such as **Downy Mildews** on broccoli and cucumbers as well as **Late Blight** on tomatoes.

Monitoring for **Dogwood Anthracnose** (caused by *Discula destructiva*) continued this year. This destructive disease was first diagnosed in Kentucky in 1989. Several new cases of the disease were found in 1990 (see Figure 2) and beginning in 1991 diagnosis of this disease became relatively common. We continue to monitor the incidence of this disease in the state and educate the ornamental industries and public as to the presence of the disease and control recommendations.

In addition to the day to day diagnosis of samples, **monitorings** of several organisms and the diseases they cause are conducted by the diagnostic laboratory during the year. Blue Mold on tobacco is watched very closely because of its destructive potential. The viruses Tomato Spotted Wilt and Impatiens Necrotic Spot are also monitored to alert tobacco and commercial vegetable growers and the floral greenhouse industry, respectively. New hosts for the fastidious xylem-inhabiting bacterium, *Xylella fastidiosa*, are carefully screened. The detection of soybean cyst nematodes in new areas of the state planted to soybeans and on commercial ornamental stock for export is also conducted. In all, a major activity of the laboratory is to serve as an educational resource to County Extension Agents and Extension Specialists for assistance in the diagnosis of plant diseases, common, complex, and new.

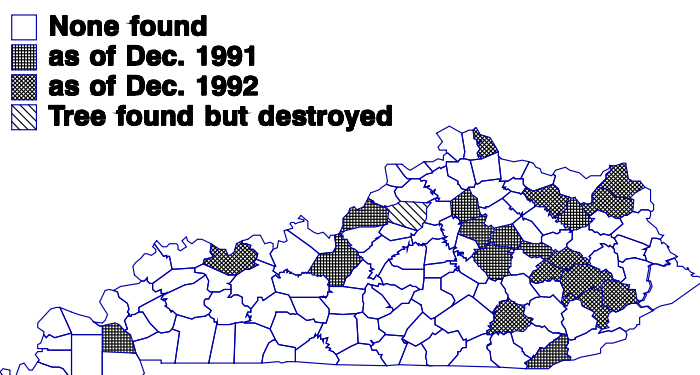


Figure 2. Incidence of Dogwood Anthracnose in Kentucky through 1992.

EXPLANATORY REMARKS

As you examine the main body of this report, you will notice three columns of numbers following the diagnosis and causal agent sections. The first column indicates the number of primary diagnoses, the second column the number of secondary diagnoses and the third column is the total of the previous two. The primary diagnosis is the main, or frequently, the only problem observed on a plant sample. If a second problem of equal or lesser importance was observed, it was entered as the secondary diagnosis. Occasionally, a problem may have only been diagnosed as a secondary problem, and never as a primary problem (e.g. *Lophodermium* needlecast on Pine). In these cases, a zero (0) will appear in the primary diagnosis column to indicate the absence of samples with that particular problem.

No disease: This indicates that no pathogen was observed on the specimen submitted, and that based on the sample and information provided, we were unable to pinpoint an exact abiotic or biotic cause of the problem, if there was one.

Referrals and consultations: Insect problems were generally identified or verified by a specialist in the Entomology Department. Chemical injuries on all commercially grown crops were diagnosed by a weed control specialist or by the crop specialist in the Agronomy or Horticulture Departments. On a number of occasions we also consulted with crop specialists in other departments to diagnose or verify abiotic problems.

Root problems: Samples designated as having a "root problem" had above ground symptoms suggestive of root disfunction and/or evidence of root degeneration, however, a specific biotic or abiotic cause could not be determined.

ACKNOWLEDGEMENTS

Two technicians within the department of Plant Pathology have made significant contributions to the Plant Diagnostic Laboratories. As the technician in charge of performing all soybean cyst nematode extractions and counting, Debbie Morgan has been dutifully carrying out her responsibilities since 1985 in the Nematode Laboratory in Princeton. Rusty Wiglesworth has been working at the Lexington Laboratory since 1990, performing many valuable services such as computer database management, mailing diagnostic responses and other tasks as needed, all of which contribute to the efficiency of the lab.

We wish to thank Freddie Higgins for his assistance in the computer operation of the lab. We would also like to thank the College of Agriculture's extension specialists and researchers who served as consultants to the diagnostic lab in 1992. Their services ranged from making actual diagnoses to providing answers to plant, insect, weed or pesticide questions. These individuals are too numerous to mention here (see Table 9) but we are grateful nonetheless to each for their valuable assistance.

Table 1.

SUMMARY OF DIAGNOSES¹ BY CROP CATEGORY AND CAUSAL AGENT TYPE.

Crop Category	Abiotic Problems	Biotic² Problems	Chemical Injury	Inadequate Specimen	Insect Injury	Other³	Total Diagnoses
<u>Agronomic</u>							
Corn	96	58	29	11	28	34	256
Forages	40	68	1	4	8	24	145
Rapeseed (Canola)	0	0	0	0	0	0	0
Small grains	23	102	3	1	0	13	142
Soybeans	39	3211*	31	2	1	26	3310
Tobacco	801	1040	149	36	21	281	2328
<u>Fruit</u>							
Small fruit	25	39	7	6	11	22	110
Tree fruit	36	88	3	8	35	31	201
<u>Herbs</u>							
	7	12	0	2	0	3	24
<u>Identification</u>							
	0	52	0	2	0	0	54
<u>Ornamentals</u>							
Herbaceous and Houseplants	49	88	2	8	20	57	224
Turfgrass	23	46	0	3	0	47	119
Woody	436	300	27	82	239	3351	1419
<u>Vegetables</u>							
	121	232	30	29	22	133	567
<u>Miscellaneous</u>							
	0	0	0	0	1	11	12
<u>Total</u>							
	1696	5336	282	194	386	1017	8911

¹ All counts and totals include primary diagnoses plus secondary diagnoses.

² Refer to Table 2 for a further breakdown of this category.

³ "Other" includes the causal agent categories: No disease and Unknown.

* Includes 3091 samples sent to the Nematode Laboratory in Princeton.

Table 2. SUMMARY OF BIOTIC PROBLEMS BY CROP CATEGORY.

Crop Category	Bacterial	Fungal	Nematode	Virus	Other¹
<u>Agronomic</u>					
Corn	6	47	0	5	0
Forages	1	66	0	0	1
Rapeseed (Canola)	0	0	0	0	0
Small grains	6	73	0	23	0
Soybeans	2	73	3127	0	0
Tobacco	186	623	0	227	4
<u>Fruit</u>					
Small fruit	0	38	0	1	0
Tree fruit	28	60	0	0	0
<u>Herbs</u>					
	0	12	0	0	0
<u>Identification</u>					
	0	27	0	0	25
<u>Ornamentals</u>					
Herbaceous and Houseplants	7	73	1	7	0
Turfgrass	0	43	0	0	3
Woody	20	270	1	2	7
<u>Vegetables</u>					
	56	139	3	34	0
<u>Miscellaneous</u>					
	0	0	0	0	0
<u>Total</u>	312	1544	3132	299	39

¹ Other includes these categories: Animal (rodent and bird damage), Plant (plant identifications), and Algae, Lichen and MLO (mycoplasma-like organism).

Table 3. NUMBER OF SPECIMENS BY CROP CATEGORY, EXPRESSED AS PERCENTAGES

Crop Category	Number of Specimens	Percentage of Total Specimens
Agronomic (-Tobacco)	3713	44.3
Tobacco	2098	25.0
Fruit 287	3.4	
Herbs	23	0.3
Identifications	53	0.6
Ornamentals	1660	19.8
Vegetables	532	6.4
Miscellaneous	12	0.2
Total Specimens	8378	100.0

Table 4.

SUMMARY OF DIAGNOSES BY CROP CATEGORY AND CROP.

Crop Category and Crop	Number of Primary Diagnoses¹	Number of Secondary Diagnoses²	Total
<u>Agronomic</u>			
Corn	216	40	256
Forages	127	18	145
Rapeseed (Canola)	0	0	0
Small grains	105	37	142
Soybeans	3265	45	3310
Tobacco	2098	230	2328
<u>Fruit</u>			
Small fruit	100	10	110
Tree fruit	187	14	201
<u>Herbs</u>			
	23	1	24
<u>Identification</u>			
	53	1	54
<u>Ornamentals</u>			
Herbaceous and Houseplants	216	8	224
Turfgrass	113	6	119
Woody	1331	88	1419
<u>Vegetables</u>			
	532	35	567
<u>Miscellaneous</u>			
	12	0	12
<u>Total</u>	8378	533	8911

¹ The number of primary diagnoses corresponds to the number of different specimens examined.

² If a second problem was evident on the plant specimen it was considered the secondary diagnosis. See "Explanatory Remarks."

³ Total diagnoses equals the number of primary plus the number of secondary diagnoses.

Table 5.

SUMMARY OF SAMPLES RECEIVED BY GROWER TYPE AND CROP GROUP.

Crop Group	Grower Type							
	Commercial		Homeowner		Research		Institution	
	Ext¹	Non-Ext²	Ext¹	Non-Ext²	Ext¹	Non-Ext²	Ext¹	Non-Ext²
<u>Agronomic</u>								
Corn	198	12	0	0	4	0	2	0
Forages	121	2	1	0	3	0	0	0
Small grains	96	7	0	0	1	0	1	0
Soybeans	2794	5	0	0	466	0	0	0
Tobacco	1973	106	0	0	19	0	0	0
<u>Fruit</u>								
Small Fruit	16	1	72	4	7	0	0	0
Tree Fruit	33	3	131	13	7	0	0	0
<u>Herbs</u>								
	0	2	16	3	1	0	1	0
<u>Identification</u>								
	2	0	40	6	1	0	2	2
<u>Ornamental</u>								
Herbaceous and Houseplants	53	18	120	13	2	0	7	3
Turfgrass	25	14	59	4	6	0	5	0
Woody	68	6	1129	54	35	0	28	11
<u>Vegetable</u>								
	239	5	266	9	13	0	0	0
<u>Miscellaneous</u>								
	2	0	10	0	0	0	0	0
<u>Total</u>								
	5620	181	1844	106	565	0	46	16
<u>Total/Grower Type</u>								
	5801		1950		565		62	

Total number of samples received = 8378

¹ Ext = Extension samples submitted via County Extension Agents or Extension Specialists.

² Non-Ext = Non-extension samples submitted directly by the grower or other non-extension clients.

Table 6.

**NUMBER OF SAMPLES REFERRED TO OTHER DEPARTMENTS,
UK LABORATORY FACILITIES OR OUTSIDE AGENCIES FOR DIAGNOSIS.***

Department, Facility or outside agency	Crop Category					Total
	Agronomic	Fruit	Ornamental	Vegetable	Other	
Agronomy Department	1	0	1	0	0	2
Entomology Department	6	4	38	3	0	51
Horticulture Department	0	1	1	0	0	2
NC State	0	1	0	0	0	1
Regulatory Services	6	0	2	0	0	8
Univ. of Georgia	0	1	0	0	0	1
					<u>Total</u>	65
					<u>Total number of plant samples</u>	5287
					<u>Percent of plant samples referred outside Diagnostic Lab for diagnosis</u>	1.2%

* Numbers do not reflect the total number of diagnoses and/or consultations conducted by other departments (See Table 9).

| TABLE 7.**SPECIAL LABORATORY TESTS PERFORMED.**

Test Number of Cases	
Culturing	80
Incubation	231
Nematode extraction (total = 1641)	
Pinewood nematode	11
Soybean cyst nematode	3091
Soil tests (total = 164)	
pH	218
Soluble salts	8
pH/Soluble Salts	12
Soil bioassays	1
Virus assays (total = 56)	
Electron Microscope	1
ELISA	84
Indicator plants	2

Table 8. NUMBER OF PLANT SAMPLES RECEIVED BY COUNTY AND CROP CATEGORY
(KY AND OUT-OF-STATE SOURCES).

COUNTY	Total	Agronomic ¹	Tobacco	Fruit	Ornamental	Vegetable	Other
ADAIR	5	2	3	0	0	0	0
ALLEN	71	4	41	2	11	13	0
ANDERSON	20	1	14	2	2	1	0
BALLARD	36	12	19	1	2	2	0
BARREN	87	32	41	2	12	0	0
BATH	58	4	37	5	4	7	1
BELL	19	0	0	5	9	4	1
BOONE	55	1	6	2	34	11	1
BOURBON	73	4	56	2	8	0	3
BOYD	6	0	0	0	5	0	1
BOYLE	60	8	12	3	35	2	0
BRACKEN	17	1	16	0	0	0	0
BREATHITT	32	6	7	1	16	2	0
BRECKINRIDGE	29	2	20	1	5	1	0
BULLITT	66	3	12	7	41	1	2
BUTLER	36	11	15	1	5	3	0
CALDWELL	147	26	57	12	37	9	6
CALLOWAY	97	15	47	9	24	2	0
CAMPBELL	40	4	0	4	29	2	1
CARLISLE	16	3	8	1	2	2	0
CARROLL	14	0	8	1	2	3	0
CARTER	38	2	21	1	8	2	1
CASEY	36	2	24	0	4	6	0
CHRISTIAN	298	41	110	21	100	24	2
CLARK	26	3	20	3	10	0	0
CLAY	10	0	4	0	1	5	0
CLINTON	19	2	15	0	1	1	0
CRITTENDEN	24	1	1	7	13	2	0
CUMBERLAND	17	0	13	0	1	3	0
DAVIESS	314	46	78	16	50	124	0
EDMONSON	59	5	35	6	8	5	0
ELLIOTT	18	1	14	0	1	3	0
ESTILL	30	1	17	0	7	5	0
FAYETTE	461	19	67	19	317	24	15
FLEMING	30	0	20	3	6	1	0
FLOYD	16	1	0	2	6	1	0
FRANKLIN	78	5	19	1	38	4	11
FULTON	5	0	0	1	4	0	0
GALLATIN	12	0	10	0	0	2	0
GARRARD	12	0	11	1	0	0	0
GRANT	28	0	17	0	7	4	0
GRAVES	108	14	59	5	22	6	2
GRAYSON	9	0	3	2	2	2	0
GREEN	6	0	4	1	0	1	0
GREENUP	10	1	0	2	7	0	0
HANCOCK	16	1	10	0	4	1	0
HARDIN	76	5	12	11	37	10	1
HARLAN	6	0	1	1	2	1	1
HARRISON	26	4	16	1	4	1	0
HART	33	5	25	2	0	1	0
HENDERSON	74	25	13	4	26	6	0
HENRY	40	3	28	1	4	4	0
HICKMAN	10	1	2	0	5	2	0
HOPKINS	53	10	12	0	25	6	0
JACKSON	28	1	13	3	9	2	0
JEFFERSON	57	3	3	1	43	6	1
JESSAMINE	24	0	17	0	6	1	0
JOHNSON	12	0	3	0	5	4	0
KENTON	39	1	4	5	26	2	1
KNOTT	13	0	0	0	13	0	0
KNOX	8	1	6	0	1	0	0

COUNTY	Total	Agronomic ¹	Tobacco	Fruit	Ornamental	Vegetable	Other
LARUE	29	10	14	2	2	0	1
LAUREL	21	2	7	0	6	5	1
LAWRENCE	14	1	9	0	4	0	0
LEE	10	1	4	3	2	0	0
LESLIE	16	0	0	0	6	1	9
LETCHER	0	0	0	0	0	0	0
LEWIS	27	2	21	0	1	3	0
LINCOLN	17	6	5	1	1	3	1
LIVINGSTON	23	11	2	4	6	0	0
LOGAN	99	16	55	6	13	8	1
LYON	31	2	15	1	12	0	1
McCRACKEN	111	10	17	12	60	10	2
McCREARY	5	0	0	0	3	2	0
McLEAN	45	5	24	1	6	8	1
MADISON	107	3	71	5	23	4	1
MAGOFFIN	7	0	7	0	0	0	0
MARION	14	0	4	1	9	0	0
MARSHALL	86	5	22	7	32	19	1
MARTIN	5	0	0	2	0	3	0
MASON	14	1	12	0	1	0	0
MEADE	62	7	37	2	11	3	2
MENIFEE	14	1	7	1	3	2	0
MERCER	37	5	12	3	15	2	0
METCALFE	7	0	7	0	0	0	0
MONROE	15	2	9	0	4	0	0
MONTGOMERY	69	4	34	4	23	3	1
MORGAN	24	0	13	2	4	5	0
MUHLENBERG	47	9	17	0	10	11	0
NELSON	30	11	7	1	12	0	0
NICHOLAS	9	0	7	0	2	0	0
OHIO	10	3	7	0	0	0	0
OLDHAM	37	1	4	2	25	5	0
OWEN	40	2	30	2	6	0	0
OWSLEY	12	0	8	2	2	0	0
PENDELTON	16	3	10	1	2	0	0
PERRY	8	0	4	0	4	0	0
PIKE	0	0	0	0	0	0	0
POWELL	13	1	5	1	3	3	0
PULASKI	44	6	9	3	22	2	2
ROBERTSON	36	0	35	0	1	0	0
ROCKCASTLE	12	1	5	0	2	4	0
ROWAN	6	0	1	0	5	0	0
RUSSELL	80	5	19	4	30	22	0
SCOTT	26	0	22	0	1	3	0
SHELBY	80	15	29	2	29	2	2
SIMPSON	19	2	8	0	9	0	0
SPENCER	34	5	3	3	11	10	2
TAYLOR	27	7	14	0	3	3	0
TODD	71	17	35	4	3	11	1
TRIGG	61	5	42	2	7	5	0
TRIMBLE	8	0	5	2	0	1	0
UNION	53	33	1	2	9	5	3
WARREN	78	6	19	11	35	6	1
WASHINGTON	54	7	34	0	12	1	0
WAYNE	58	5	28	3	8	14	0
WEBSTER	56	24	17	2	11	1	1
WHITLEY	34	3	18	1	12	0	0
WOLFE	16	2	10	0	4	0	0
WOODFORD	44	5	13	2	21	3	0
Out-of-State	8	7	78	0	3	0	0
TOTALS	5287	622	2098	287	1660	532	88

¹ Agronomic crops include corn, soybeans, forages, rapeseed (Canola) and small grains but in this particular case, it excludes tobacco.

Table 9.

THE NUMBER OF CASES IN WHICH EXTENSION SPECIALISTS, DIAGNOSTICIANS OR RESEARCHERS WERE INVOLVED IN MAKING A PRIMARY DIAGNOSIS AND THE NUMBER OF CASES IN WHICH THEY SERVED AS CONSULTANTS.

Specialists, Researchers, Diagnosticians	Department	Number of cases	
		Primary Diagnosis ¹	Consultations ²
LEXINGTON			
Anderson, RG	Horticulture	5	4
Bitzer, MJ	Agronomy	13	1
Bessin, RT	Entomology	12	6
Doney, JC	Plant Pathology	0	1
Eshenaur, BC (Diagnostician)	Plant Pathology	2213	74
Fountain, WF	Horticulture	1	2
Green, JD	Agronomy	36	14
Hartman, JR	Plant Pathology	91	13
Henning, JC	Agronomy	1	1
McNiel, RE	Horticulture	1	1
Nesmith, WC	Plant Pathology	225	33
Palmer, GK	Agronomy	144	18
Pirone, TP	Plant Pathology	3	0
Potter, MF	Entomology	0	1
Powell, AJ	Agronomy	0	1
Roberts, CR	Horticulture	0	2
Smiley, JH	Agronomy	188	6
Strang, JG	Horticulture	3	4
Townsend, LH	Entomology	35	15
Vincelli, PC	Plant Pathology	141	12
Wigglesworth, MD	Plant Pathology	4	1
PRINCETON			
Bachi, PR (Diagnostician)	Plant Pathology	1968	62
Brown, GR	Horticulture	1	18
Dunwell, WC	Horticulture	14	74
Herbek, JH	Agronomy	9	23
Hershman, DE	Plant Pathology	100	32
Johnson, DJ	Entomology	6	17
Lacefield, GD	Agronomy	1	12
Martin, JR	Agronomy	12	54
Murdock, LW	Agronomy	4	22
Maksymowicz, WC	Agronomy	53	135
Rasnake, M	Agronomy	0	4

¹ The specialist or diagnostician signing the Plant Diagnostic Form was considered the primary diagnoser.

² In some cases, more than one person was consulted, however, only one name can be entered into the computer database. Therefore, these numbers may indicate fewer consultations than were actually performed.

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
<u>AGRONOMIC CROPS</u>					
CORN (Zea)					
	ANTHRACNOSE	- COLLETOTRICHUM	1	0	1
	BUGGY WHIPPING	- UNKNOWN	0	1	1
	CHARCOAL ROT	- MACROPHOMINA	0	1	1
	CHEMICAL INJURY	- HERBICIDE, UNKNOWN	26	3	29
	CRAZY TOP	- SCLEROPHTHORA	1	0	1
	EAR/KERNEL ROTS	- DIPLODIA	7	0	7
		- FUSARIUM	1	0	1
		- GIBBERELLA	0	1	1
		- RHIZOCTONIA	1	0	1
	ENVIRONMENTAL	- COLD INJURY	16	1	17
		- COMPACTION	3	1	4
		- OTHER STRESSES	9	6	15
	GRAY LEAF SPOT	- CERCOSPORA	7	2	9
	HOLCUS SPOT	- PSEUDOMONAS	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		45	-	45
	INSECT INJURY		19	9	28
	LEAF SPOT	- HELMINTHOSPORIUM	1	0	1
		- UNKNOWN	0	1	1
	NORTHERN LEAF BLIGHT	- SETOSPHAERIA	9	1	10
	NUTRITIONAL	- ACID SOIL	12	4	16
		- ZN DEFICIENCY	27	0	27
		- OTHERS	11	5	16
	ROOT ROT	- PYTHIUM	1	0	1
	RUST, COMMON	- PUCCINIA	7	4	11
	SMUT	- USTILAGO	1	0	1
	STEWART'S WILT	- ERWINIA	4	0	4
		- MAIZE CHLOROTIC DWARF	1	0	1
		- MAIZE DWARF MOSAIC	2	1	3
	VIRUS	- UNKNOWN	1	0	1
<u>FORAGES</u>					
ALFALFA (Medicago)					
	CHEMICAL INJURY	- GROWTH REGULATOR	0	1	1
	CROWN/ROOT ROT	- FUSARIUM	1	0	1
	CROWN/STEM ROT	- SCLEROTINIA	1	1	2
	ENVIRONMENTAL STRESSES		25	2	27
	INADEQUATE SPECIMEN, NO DISEASE		19	-	19
	INSECT INJURY		2	6	8
	LEAF SPOT	- LEPTOSPHAERULINA	16	2	18
		- PSEUDOMONAS	1	0	1
		- PSEUDOPEZIZA	0	1	1
		- STEMPHYLIUM	1	0	1
	NUTRITIONAL	- B DEFICIENCY	4	0	4
		- OTHER	5	1	6
	ROOT ROT	- APHANOMYCES	28	0	28
		- FUSARIUM	1	0	1
		- PHYTOPHTHORA	2	2	4

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
ALFALFA (cont)					
	STEM CANCKER	- RHIZOCTONIA	3	0	3
	SUMMER BLACK STEM	- CERCOSPORA	3	0	3
	VARIEGATION	- GENETIC	1	1	2
CLOVER (Trifolium)					
	DODDER	- CUSCUTA	1	0	1
	ENVIRONMENTAL	- STRESS	0	1	1
	INADEQUATE SPECIMEN, NO DISEASE		5	-	5
	SUMMER BLACK STEM	- CERCOSPORA	1	0	1
DALLISGRASS (Paspalum)					
	NO DISEASE		1	-	1
ORCHARDGRASS (Dactylis)					
	LEAF SPOT	- DRECHSLERA	1	0	1
	NO DISEASE		2	-	2
SUDANGRASS (Sorghum)					
	ENVIRONMENTAL	- STRESS	1	0	1
	NO DISEASE		1	-	1
<u>SOYBEAN</u>					
SOYBEAN (Glycine)					
	ANTHRACNOSE	- COLLETOTRICHUM	0	1	1
	BROWN SPOT	- SEPTORIA	9	9	18
	CHEMICAL INJURY	- HERBICIDE, GROWTH REG.	22	4	26
		- UNKNOWN	5	0	5
	DOWNY MILDEW	- PERONOSPORA	3	2	5
	ENVIRONMENTAL STRESSES		14	4	18
	INADEQUATE SPECIMEN, NO DISEASE		28	-	21
	INDUCED CHLOROSIS	- RHIZOBIUM	2	0	2
	INSECT INJURY		0	1	1
	LEAF SPOT	- ALTERNARIA	1	0	1
		- FUNGAL	1	0	1
	NUTRITIONAL	- K DEFICIENCY	8	1	9
		- MG DEFICIENCY	2	0	2
		- MN DEFICIENCY	2	3	5
		- POOR NODULATION	1	1	2
		- OTHER	2	0	2
	ROOT/STEM ROT	- FUNGAL	1	0	1
		- PHYTOPHTHORA	5	0	5
		- RHIZOCTONIA	5	5	10
	SOYBEAN CYST NEMATODE - on plant samples		24	12	36
	HETERODERA	* in soil samples	2388		2388
		* absent in soil samples	703		703
		(*soil submitted to Nematode Laboratory)			
	SUDDEN DEATH SYNDROME	- FUSARIUM	37	0	37
	VIRUS	- SOYBEAN MOSIAC	2	0	2
		- UNKNOWN	1	0	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
<u>SMALL GRAINS</u>					
BARLEY (Hordeum)					
	ENVIRONMENTAL STRESSES		2	0	2
	LEAF SPOT	- SEPTORIA	0	1	1
	SCALD	- RHYNCHOSPORIUM	1	0	1
MILLET (Pennisetum)					
	BLAST	- PYRICULARIA	2	0	2
OAT (Avena)					
	ENVIRONMENTAL STRESSES		1	1	2
	LEAF BLIGHT	- SEPTORIA	1	0	1
	LEAF BLOTCH	- HELMINTHOSPORIUM	1	0	1
	NO DISEASE		1	-	1
	RUST/LEAF	- PUCCINIA	1	0	1
RYE (Secale)					
	CHEMICAL INJURY	- HERBICIDE	1	0	1
	LEAF BLIGHT	- SEPTORIA	1	0	1
SORGHUM (Sorghum)					
	DAMPING-OFF	- RHIZOCTONIA	1	0	1
	NORTHERN LEAF BLIGHT	- EXSEROHILUM	1	0	1
	ROOT ROT	- PYTHIUM	1	0	1
	VIRUS	- COMPLEX	1	0	1
WHEAT (Triticum)					
	BLACK STRIPE	- XANTHOMONAS	0	5	5
	CHEMICAL	- HERBICIDE	2	0	2
	ENVIRONMENTAL	- COLD INJURY	11	3	14
		- OTHER	2	0	2
	GLUME BLOTCH	- SEPTORIA	12	0	12
	INADEQUATE SPECIMEN, NO DISEASE		13	-	13
	LEAF BLOTCH	- SEPTORIA	15	21	36
	NUTRITIONAL	- FERTILIZER BURN	2	0	2
	POWDERY MILDEW	- ERYSIPHE	1	1	2
	RUST/LEAF	- PUCCINIA	2	0	2
	SCAB	- GIBBERELLA	4	3	7
	SMUT	- USTILAGO	0	1	1
	TAKE-ALL	- GAEUMANNOMYCES	3	0	3
	TAN SPOT	- PYRENOPHORA	0	1	1
	VIRUS	- BARLEY YELLOW DWARF	20	0	20
		- SOIL-BORNE MOSAIC	1	0	1
		- WHEAT SPINDLE STREAK	1	0	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
<u>TOBACCO</u>					
TOBACCO (Nicotiana)					
ALGAE		- BLUE-GREEN	1	1	2
		- GREEN	2	0	2
ANGULAR LEAF SPOT		- PSEUDOMONAS	79	21	100
ANTHRACNOSE		- COLLETOTRICHUM	4	2	6
BACTERIAL SOFT ROT		- ERWINIA	24	3	27
BLACKLEG		- ERWINIA	17	23	40
BLACK ROOT ROT		- CHARLARA	34	5	39
BLACK SHANK		- PHYTOPHTHORA	245	1	246
BLUE MOLD		- PERONOSPORA	159	12	171
BROWN SPOT		- ALTERNARIA	11	5	16
CHEMICAL INJURY		- BURN	4	0	4
		- DISINFECTANT	2	0	2
		- FUNGICIDE	1	0	1
		- GROWTH REGULATOR	43	1	44
		- HERBICIDE	62	2	64
		- HYDRAULIC FLUID	2	0	2
		- INSECTICIDE	0	1	1
		- STREPTOMYCIN	0	1	1
		- SUCKER AGENT	5	2	7
		- UNKNOWN	29	1	30
CROWN/STEM ROT		- RHIZOCTONIA	13	2	15
		- SCLEROTINIA	27	0	27
CULTURAL		- TRANSPLANT SHOCK	4	0	4
		- OTHER	20	2	22
DAMPING-OFF		- RHIZOCTONIA	1	0	1
EARLY FLOWERING		- ENVIRONMENTAL	8	0	8
ENVIRONMENTAL		- COLD INJURY	103	10	113
		- COMPACTION	10	4	14
		- LIGHTNING	20	1	21
		- WET FEET	12	4	16
		- WEATHER SCALD	35	9	44
		- OTHER	71	9	80
FALSE BROOMRAPE		- UNKNOWN	1	0	1
FRENCHING		- METABOLITES	5	0	5
FROGEYE		- CERCOSPORA	10	3	13
HOLLOW STALK		- ERWINIA	18	1	19
HOUSEBURN		- BACTERIAL	2	0	2
INADEQUATE SPECIMEN, NO DISEASE, UNKNOWN			317	-	317
INSECT INJURY			10	11	21
LEAF SPOT		- PHYSIOLOGICAL	7	1	8
NUTRITIONAL		- ACID SOIL	25	4	29
		- FERTILIZER BURN	50	4	54
		- K DEFICIENCY	23	6	29
		- MN TOXICITY	122	6	128
		- N DEFICIENCY	30	5	35
		- P DEFICIENCY	133	10	143
		- OTHER	12	3	15
PHYSICAL INJURIES			6	2	8

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
TOBACCO (cont)					
	POWDERY MILDEW	- OIDIUM	1	0	1
	RAGGED SPOT	- ASCOCHYTA	1	0	1
	ROOT ROT	- PYTHIUM	20	5	25
	SORE SHIN	- RHIZOCTONIA	27	7	34
	STORAGE MOLD	- ASPERGILLUS	1	0	1
		- MUCOR	1	0	1
		- PENICILLIUM	0	1	1
	STUNT	- MYCORRHIZAE	2	0	2
	TARGET SPOT	- RHIZOCTONIA	12	5	17
	VARIEGATION	- GENETIC	1	0	1
	VIRUS	- ALFALFA MOSAIC	6	1	7
		- COMPLEX	64	6	70
		- POTATO VIRUS Y	0	1	1
		- TOBACCO ETCH	21	9	30
		- TOBACCO MOSAIC	2	1	3
		- TOBACCO RINGSPOT	10	1	11
		- TOBACCO STREAK	11	5	16
		- TOBACCO VEIN MOTTLING	2	0	2
		- TOMATO SPOTTED WILT	56	3	59
		- UNKNOWN	25	3	28
	WEATHER FLECK	- OZONE	14	3	17
	WILT	- FUSARIUM	2	1	3

FRUIT CROPS

SMALL FRUITS

BLUEBERRY (Vaccinium)

	ENVIRONMENTAL STRESSES		3	1	4
	LEAF SPOT	- CERCOSPORA	0	1	1
	NO DISEASE		4	-	4
	NUTRITIONAL	- FE DEFICIENCY	1	0	1

BRAMBLES - Blackberry and Raspberry (Rubus)

	CANE BLIGHT	- GNOMONIA	1	0	1
		- PHOMA	1	0	1
	CHEMICAL INJURY	- HERBICIDE	1	0	1
	DOUBLE BLOSSOM	- CERCOSPORELLA	1	0	1
	ENVIRONMENTAL	- COLD INJURY	12	2	14
	FIRE BLIGHT	- ERWINIA	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		8	-	8
	INSECT INJURY		4	0	4
	LEAF SPOT	- SEPTORIA	2	0	2
	ORANGE RUST	- GYMNOCONIA	1	0	1
	ROOT ROT	- PHYTOPHTHORA	3	0	3
	ROSETTE	- CERCOSPORELLA	2	0	2
	VIRUS	- STERILITY	0	1	1

CURRANT (Ribes)

	LEAF SPOT	- SEPTORIA	1	0	1
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<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
GOOSEBERRY (Ribes)					
	INSECT INJURY		0	1	1
	POWDERY MILDEW	- species	1	0	1
GRAPE (Vitis)					
	ANTHRACNOSE	- ELSINOE	1	0	1
	BITTER ROT	- MELANCONIUM	1	0	1
	BLACK ROT	- GUIGNARDIA	11	0	11
	CHEMICAL INJURY	- GROWTH REGULATOR	5	0	5
		- UNKNOWN	1	1	2
	DOWNY MILDEW	- PLASMOPORA	1	1	2
	ENVIRONMENTAL	- COLD INJURY	1	1	2
	GRAY MOLD	- BOTYRTIS	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		7	-	7
	INSECT INJURY		3	0	3
STRAWBERRY (Fragaria)					
	ANTHRACNOSE	- COLLETOTRICHUM	2	0	2
	BLACK ROOT	- COMPLEX	1	0	1
	BLACK ROOT ROT	- RHIZOCTONIA	2	0	2
	ENVIRONMENTAL STRESS		2	0	2
	FRUIT ROT	- GLOEOSPORIUM	1	0	1
	GRAY MOLD	- BOTRYTIS	2	0	2
	INADEQUATE SPECIMEN, NO DISEASE		9	-	9
	INSECT INJURY		3	0	3
	LEAF SPOT	- MYCOSPHAERELLA	1	0	1
	NUTRITIONAL	- ACID SOIL	0	1	1
<u>TREE FRUITS</u>					
APPLE (Malus)					
	BITTER ROT	- GLOMERELLA	2	0	2
	BURR KNOT	- PHYSIOLOGICAL	1	0	1
	CEDAR APPLE RUST	- GYMNOSPORANGIUM	0	3	3
	CEDAR QUINCE RUST	- GYMNOSPORANGIUM	11	0	11
	COLLAR ROT	- PHYTOPHTHORA	2	0	2
	ENVIRONMENTAL STRESSES		2	0	2
	FIRE BLIGHT	- ERWINIA	24	1	24
	FLYSPECK	- SCHIZOTHYRIUM	1	1	2
	FROGEYE	- BOTRYOSPHAERIA	5	0	5
	GROWTH CRACK	- ENVIRONMENTAL	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		21	-	21
	INSECT INJURY		12	2	14
	NECROTIC LEAF BLOTCH	- PHYSIOLOGICAL	4	0	4
	NUTRITIONAL	- GENERAL	1	0	1
	PHYSICAL INJURY	- MOWER	1	0	1
	SCAB	- VENTURIA	5	1	6
	SOOTY BLOTCH	- GLOEODES	1	1	2
	WALNUT WILT	- JUGLONE	1	0	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
CHERRY (Prunus)					
	CHEMICAL INJURY	- UNKNOWN	1	0	1
	ENVIRONMENTAL	- COLD INJURY	7	0	7
	INADEQUATE SPECIMEN, NO DISEASE		4	-	4
	INSECT INJURY		2	0	2
	POWDERY MILDEW	- PODOSPHAERA	1	0	1
PEACH, NECTARINE and APRICOT (Prunus)					
	BLUE MOLD	- PENICILLIUM	0	1	1
	BROWN ROT	- MONILINIA	5	0	5
	CANKER	- LEUCOSTOMA	1	0	1
	ENVIRONMENTAL STRESSES		4	1	5
	INADEQUATE SPECIMEN, NO DISEASE		5	-	5
	INSECT INJURY		11	1	12
	NUTRITIONAL	- NITROGEN DEFICIENCY	4	0	4
	WHITE ROT	- BOTRYOSPHAERIA	2	0	2
PEAR (Pyrus)					
	CHEMICAL INJURY	- UNKNOWN	0	1	1
	CULTURAL	- TRANSPLANT SHOCK	1	0	1
	ENVIRONMENTAL STRESSES		5	0	5
	FIRE BLIGHT	- ERWINIA	3	0	3
PECAN (Carya)					
	ENVIRONMENTAL	- COLD INJURY	1	0	1
	INSECT INJURY		4	1	5
	NO DISEASE		3	-	3
	PHYSIOLOGICAL	- INTERNAL BREAKDOWN	4	0	4
	SCAB	- CLADOSPORIUM	1	0	1
PLUM (Prunus)					
	BLACK KNOT	- APOSPORINA	8	0	8
	BROWN ROT	- MONILINIA	1	0	1
	ENVIRONMENTAL STRESSES		2	0	2
	INADEQUATE SPECIMEN, NO DISEASE		7	-	7
	INSECT INJURY		3	0	3
	PLUM POCKETS	- TAPHRINA	4	0	4

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
<u>HERBS</u>					
BASIL (Ocimum)					
ROOT ROT		- RHIZOCTONIA	1	0	1
BAY (Persea)					
NO DISEASE			1	-	1
BLACK PEPPER (Tiper)					
EXODATE		- NATURAL	1	0	1
CHAMOMILE (Anthemis)					
INADEQUATE SPECIMEN			1	-	1
GARLIC (Allium)					
NO DISEASE			1	-	1
GINSENG (Panax)					
BLIGHT		- ALTERNARIA	1	0	1
DAMPING-OFF		- RHIZOCTONIA	2	0	2
ENVIRONMENTAL STRESSES			5	0	5
NO DISEASE			1	-	1
ROOT KNOW NEMATODE		- MELOIDOGYNE	3	0	3
ROOT ROT		- FUSARIUM	1	1	2
		- PHYTOPHTHORA	1	0	1
ROSEMARY (Rosmarinus)					
CULTURAL STRESS			1	0	1
SAGE (Salvia)					
GRAY MOLD		- BOTRYTIS	1	0	1
INADEQUATE SPECIMEN			1	-	1
THYME (Thymus)					
GRAY MOLD		- BOTRYTIS	1	0	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
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IDENTIFICATIONS

FUNGAL IDENTIFICATION

AGARICUS	- CAMPESTRIS	1	0	1
AURICULARIA	- species	1	0	1
BASIDIOMYCETE	- UNKNOWN	3	0	3
CALOCERA	- species	1	0	1
CALVATIA	- GIGANTEA	1	0	1
CAVULINA	- CRISTATA	1	0	1
CHANTERELLE	- species	1	0	1
CHANTHARELLOS	- species	1	0	1
CHLOROPHYLLUM	- MOLYBDITES	1	0	1
GANODERMA	- CURTISII	1	0	1
	- species	1	0	1
HYMENOASTER	- species	1	0	1
INADEQUATE SPECIMEN		2	-	2
LICHENS	- species	11	0	11
MORCHELLA	- species	4	0	4
MUTINUS	- CANINUS	1	0	1

PLANT IDENTIFICATION

ACANTHOPANAX	- SIEBOLDIANUS	1	0	1
ACER	- NEGUNDO	1	0	1
BRASSICA	- species	3	0	3
CITRUS	- PARADIS	1	0	1
CONIUM	- MACULATUM	1	0	1
DIGITARIA	- ISCHAEMON	1	0	1
DODDER	- CUSCUTA	1	0	1
JUGLANS	- CINEREA	1	0	1
LIGUSTRUM	- VULGARE	1	0	1
LIQUIDAMBAR	- species	1	0	1
LYCOPODIUM	- OBSCURUM	1	0	1
PETUNIA	- species	2	0	2
PRUNUS	- SEROTINA	1	0	1
RHODODENDRON	- species	1	0	1
RHUS	- RADCANS	1	0	1
ROBINIA	- HISPINIA	1	0	1
ULMUS	- PUMILA	1	0	1
XANTHIUM	- STRUMARIUM	1	0	1

MISCELLANEOUS

SOIL

NO DISEASE		11	-	11
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WEED

INSECT INJURY		1	0	1
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<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
<u>ORNAMENTALS</u>					
<u>HERBACEOUS ORNAMENTALS AND INDOOR PLANTS</u>					
AGERATUM (Ageratum)	INSECT INJURY		1	0	1
ALOE (Aloe)	NO DISEASE		2	-	2
ALYSSUM (Lobularia)	ROOT ROT	- RHIZOCTONIA	1	0	1
AMARANTH (Gomphrena)	NO DISEASE		1	-	1
ARALIA (Polyscias)	CULTURAL	- OEDEMA	1	0	1
	INSECT INJURY		1	0	1
BABYS BREATH (Gypsophila)	NO DISEASE		1	-	1
BEGONIA (Begonia)	ANTHRACNOSE	- COLLETOTRICHUM	1	0	1
	ENVIRONMENTAL	- STRESS	1	0	1
	NO DISEASE		2	-	2
	ROOT ROT	- PYTHIUM	1	0	1
	POWDERY MILDEW	- OIDIUM	2	0	2
	VIRUS	- IMPATIENS NECROTIC SPOT	1	1	2
BENJAMIN FIG (Ficus)	ENVIRONMENTAL	- STRESS	2	0	2
CACTUS (various)	INSECT INJURY		1	0	1
	STEM ROT	- CURVULARIA	1	0	1
CAMELLIA (Camellia)	INSECT INJURY		1	0	1
CANNA (Canna)	BACTERIAL BUD ROT	- XANTHOMONAS	1	0	1
CELISIA (Celisia)	NO DISEASE		1	-	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
CHRYSANTHEMUM (Chrysanthemum)					
	BACTERIAL BLIGHT	- ERWINIA	1	0	1
	LEAF/STEM BLIGHT	- COLLETOTRICHUM	1	0	1
	ROOT/STEM ROT	- PYTHIUM	2	0	2
	VIRUS	- POTYVIRUS	1	0	1
CITRON (Citrus)					
	ROOT ROT	- RHIZOCTONIA	1	0	1
CLEMATIS (Clematis)					
	CROWN GALL	- AGROBACTERIUM	1	0	1
	NO DISEASE		1	-	1
COLUMBINE (Aquilegia)					
	INSECT INJURY		1	0	1
CROWN-OF-THORNS (Euphorbia)					
	INADEQUATE SPECIMEN		1	-	1
CYPRESS-VINE (Ipomoea)					
	INSECT INJURY		1	0	1
DAFFODIL (Narcissus)					
	ENVIRONMENTAL	- COLD INJURY	1	0	1
DAHLIA (Dahlia)					
	GRAY MOLD	- BOTRYTIS	1	0	1
DAISY (Chrysanthemum)					
	NO DISEASE		1	-	1
DAYLILY (Hemerocallis)					
	ENVIRONMENTAL	- STRESS	1	0	1
	CULTURAL	- OEDEMA	3	0	3
	LEAF SCORCH	- COLLETOTRICHUM	1	0	1
	NO DISEASE		1	-	1
DELPHINIUM (Delphinium)					
	INADEQUATE SPECIMEN		1	-	1
DIANTHUS (Dianthus)					
	NO DISEASE		2	-	2
	ROOT ROT	- RHIZOCTONIA	1	0	1
DICTAMUS (Dictamus)					
	NO DISEASE		1	-	1
DUSTY-MILLER (Centauria)					
	ROOT ROT	- RHIZOCTONIA	1	0	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
EPIPHYLLUM (Epiphyllum)	ENVIRONMENTAL	- STRESS	1	0	1
FERN (various)	CULTURAL	- TRANSPLANT SHOCK	1	0	1
	NO DISEASE		2	-	2
	NUTRITIONAL	- GENERAL	1	0	1
FIG (FICUS)	INSECT INJURY		1	0	1
	NO DISEASE		3	-	3
	SOOTY MOLD	- species	1	0	1
FUCHSIA (Fuchsia)	GRAY MOLD	- BOTRYTIS	1	0	1
GARDENIA (Gardenia)	NO DISEASE		2	-	2
GAYFEATHER (Liatris)	ROOT ROT	- RHIZOCTONIA	1	0	1
GERANIUM (Pelargonium)	BACTERIAL BLIGHT	- XANTHOMONAS	1	0	1
	CHEMICAL INJURY	- BURN	1	0	1
	CULTURAL	- OEDEMA	3	0	3
	ENVIRONMENTAL	- WET FEET	1	0	1
	GRAY MOLD	- BOTRYTIS	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		3	-	3
	NUTRITIONAL	- FERTILIZER BURN	1	0	1
		- SOLUBLE SALTS	1	0	1
	RUST	- PUCCINIA	3	0	3
	STEM ROT	- SCLEROTINIA	1	0	1
GODETIA (Godetia)	NO DISEASE		1	-	1
HENS-AND-CHICKS (Sempervivum)	LEAF SPOT	- COLLETOTRICHUM	1	0	1
HOLLYHOCK (Althaea)	RUST	- PUCCINIA	1	0	1
HOSTA (Hosta)	ENVIRONMENTAL STRESS		2	1	3
	SLIME MOLD	- species	1	0	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
IMPATIENS (Impatiens)					
	AIR POLLUTION	- UNKNOWN	1	0	1
	CULTURAL	- OVERWATERING	1	0	1
	GRAY MOLD	- BOTRYTIS	2	0	2
	INADEQUATE SPECIMEN, NO DISEASE		7	-	7
	NUTRITIONAL	- SOLUBLE SALTS	1	0	1
		- UNKNOWN	1	0	1
	ROOT ROT	- PYTHIUM	0	1	1
	STEM ROT	- RHIZOCTONIA	1	0	1
	VIRUS	- IMPATIENS NECROTIC SPOT	2	0	2
IRIS (Iris)					
	BACTERIAL SOFT ROT	- ERWINIA	1	0	1
	INSECT INJURY		1	0	1
IVY (various)					
	ENVIRONMENTAL STRESSES		4	0	4
	LEAF SPOT	- COLLETOTRICHUM	2	1	3
		- PHYLLOSTICTA	1	0	1
	NO DISEASE		1	-	1
JADE PLANT (Crassula)					
	POWDERY MILDEW	- SPHAEROTHECA	1	0	1
KALANCHOE (Kalanchoe)					
	ROOT ROT	- RHIZOCTONIA	1	0	1
LANTANA (Lantana)					
	INSECT INJURY		1	0	1
	NO DISEASE		1	-	1
LARKSPUR (Delphinium)					
	LEAF SPOT	- ASCOCHYTA	1	0	1
LILY (Lilium)					
	GRAY MOLD	- BOTRYTIS	1	0	1
LYTHIUM (Lythium)					
	NO DISEASE		2	-	2
MARIGOLD (Tagetes)					
	BACTERIAL LEAF SPOT	- XANTHOMONAS	1	0	1
	ENVIRONMENTAL STRESSES		2	0	2
	GRAY MOLD	- BOTRYTIS	1	0	1
	INSECT INJURY		1	0	1
	LEAF SPOT	- SEPTORIA	1	0	1
	NUTRITIONAL	- NITROGEN DEFICIENCY	1	0	1
	ROOT ROT	- RHIZOCTONIA	1	0	1
	VIRUS	- IMPATIENS NECROTIC SPOT	1	0	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
ORANGE (Citrus)	INSECT INJURY		1	0	1
ORCHID (Various)	BROWN SPOT	- PSEUDOMONAS	1	0	1
PACHYSANDRA (Pachysandra)	LEAF/STEM BLIGHT	- PSEUDONECTRIA	3	0	3
	NO DISEASE		1	-	1
PALM (various)	ENVIRONMENTAL	- STRESS	1	0	1
	NO DISEASE		1	-	1
PANSY (Viola)	NO DISEASE		2	-	2
	NUTRITIONAL	- NITROGEN DEFICIENCY	1	0	1
PEONY (Paeonia)	ENVIRONMENTAL	- COLD INJURY	1	0	1
	NO DISEASE		1	-	1
	RED SPOT	- CLADOSPORIUM	2	0	2
PETUNIA (Petunia)	ENVIRONMENTAL STRESSES		2	0	2
	NUTRITIONAL	- CALCIUM DEFICIENCY	1	0	1
	VIRUS	- IMPATIENS NECROTIC SPOT	1	0	1
PHILODENDRON (Philodendron)	NO DISEASE		1	-	1
	PHYSICAL INJURY	- HUMAN	1	0	1
PHLOX (Phlox)	BLACK ROOT ROT	- CHARLARA	1	0	1
	NO DISEASE		2	-	2
POINSETTIA (Euphorbia)	ENVIRONMENTAL	- STRESS	2	0	2
	NO DISEASE		3	-	3
	NUTRITIONAL	- GENERAL	2	0	2
	ROOT ROT	- PYTHIUM	2	0	2
	ROOT/STEM ROT	- FUSARIUM	0	1	1
		- RHIZOCTONIA	2	0	2
PORTULACA (Portulaca)	CHEMICAL INJURY	- HERBICIDE	1	0	1
	VIRUS	- UNKNOWN	1	0	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
RHOICISSUS (Rhoicissus)	NO DISEASE		2	-	2
RUBBER PLANT (Ficus)	INADEQUATE SPECIMEN		1	-	1
SALVIA (Salvia)	GRAY MOLD	- BOTRYTIS	1	0	1
	NO DISEASE		1	-	1
	ROOT ROT	- RHIZOCTONIA	0	1	1
SCHEFFLERA (Brassaia)	ENVIRONMENTAL STRESSES		3	0	3
	INSECT INJURY		3	0	3
	NO DISEASE		1	-	1
	NUTRITIONAL	- OVER FERTILIZATION	1	0	1
SEDUM (Sedum)	NO DISEASE		1	-	1
	ROOT KNOT NEMATODE	- MELOIDOGYNE	1	0	1
SNAPDRAGON (Antirrhinum)	DOWNY MILDEW	- PERONOSPORA	5	0	5
	STEM ROT	- FUSARIUM	1	0	1
SPATHIPHYLLUM (Spathiphyllum)	NO DISEASE		1	-	1
	ROOT ROT	- CYLINDROCLADIUM	1	0	1
STRAWFLOWER (Helichrysum)	ROOT/STEM ROT	- RHIZOCTONIA	1	0	1
SUNFLOWER (Helianthus)	NO DISEASE		1	-	1
SWEET WOODRUF (Galium)	CROWN ROT	- ALTHELIA	1	0	1
	INADEQUATE SPECIMEN		1	-	1
TRUMPETVINE (Campsis)	INSECT INJURY		1	0	1
	POWDERY MILDEW	- species	0	1	1
UNKNOWN	INSECT INJURY		1	0	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
VERBENA (Verbena)					
	INSECT INJURY		1	0	1
VINCA (Vinca)					
	CANKER/DIEBACK	- PHOMA	2	0	2
	CULTURAL	- OVERWATERING	1	0	1
		- TRANSPLANT SHOCK	1	0	1
	GRAY MOLD	- BOTRYTIS	2	0	2
	INADEQUATE SPECIMEN, NO DISEASE		4	-	4
	INSECT INJURY		1	0	1
VIOLET (Viola)					
	INSECT INJURY		2	0	2
	NO DISEASE		2	-	2
	POWDERY MILDEW	- SPHAEROTHECA	1	0	1
YARROW (Achillea)					
	FLOWER MOLD	- PENICILLIUM	1	0	1
YUCCA (Yucca)					
	LEAF SPOT	- CONIOTHYRIUM	1	0	1
ZINNIA (Zinnia)					
	POWDERY MILDEW	- ERYSIPHE	1	0	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
<u>TURFGRASS</u>					
BENTGRASS (Agrostis)					
	ALGAE	- BLUE-GREEN	2	0	2
	ANTHRACNOSE	- COLLETOTRICHUM	2	0	2
	BROWN PATCH	- RHIZOCTONIA	1	0	1
	CULTURAL	- OVERWATERING	1	0	1
	ENVIRONMENTAL	- WET FEET	1	0	1
	FADING OUT	- CURVULARIA	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		10	-	10
	ROOT ROT	- PYTHIUM	3	3	6
	YELLOW PATCH	- RHIZOCTONIA	2	0	2
BERMUDAGRASS (Cynodon)					
	SMUT	- USTILAGO	2	0	2
BLUEGRASS (Poa)					
	ANTHRACNOSE	- COLLETOTRICHUM	1	0	1
	BROWN PATCH	- RHIZOCTONIA	2	0	2
	CULTURAL	- HEAVY THATCH	6	0	6
	DOLLAR SPOT	- LANZIA/MOELL.	3	0	3
	ENVIRONMENTAL	- COMPACTION	0	1	1
	LEAF SPOT	- SEPTOSPHAERULINA	0	1	1
	NO DISEASE		13	-	13
	RED THREAD	- LAETISARIA	2	0	2
	RUST	- FUNGAL	1	0	1
		- PUCCINIA	1	0	1
FESCUE (Festuca)					
	BROWN PATCH	- RHIZOCTONIA	3	0	3
	CULTURAL	- UNDERWATERING	1	0	1
	ENVIRONMENTAL STRESSES		6	0	6
	INADEQUATE SPECIMEN, NO DISEASE		10	-	10
	RED THREAD	- LAETISARIA	1	0	1
	POWDERY MILDEW	- ERYSIPIHE	1	0	1
	SLIME MOLD	- species	1	0	1
	SMUT	- USTILAGO	1	0	1
RYEGRASS (Lolium)					
	ANTHRACNOSE	- COLLETOTRICHUM	1	0	1
	LEAF SPOT	- DRECHSLERA	1	0	1
	NO DISEASE		2	-	2
	RUST	- PUCCINIA	1	0	1

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TURF (Various)					
	ALGAE	- GREEN	1	0	1
	BROWN PATCH	- RHIZOCTONIA	2	0	2
	CULTURAL	- HEAVY THATCH	2	0	2
	DOLLAR SPOT	- LANZIA./MOELL.	1	0	1
	ENVIRONMENTAL STRESSES		5	0	5
	INADEQUATE SPECIMEN, NO DISEASE		11	-	11
	LEAF SPOT	- DRECHSLERA	0	1	1
	NECROTIC RING SPOT	- LEPTOSPHAERULINA	1	0	1
	RED THREAD	- LAETISARIA	1	0	1
	SLIME MOLD	- species	1	0	1
	SUMMER PATCH	- PHIALOPHORA	0	1	1
	YELLOW PATCH	- RHIZOCTONIA	1	0	1

WOODY ORNAMENTALS

ALLSPICE (Calycanthus)					
	NO DISEASE		2	-	2
ARBORVITAE (Thuja)					
	ENVIRONMENTAL STRESS		5	0	5
	INSECT INJURY		3	0	3
	NO DISEASE		6	-	6
	PHYSICAL INJURY	- UNKNOWN	2	0	2
	TWIG BLIGHT	- PESTALOTIOPSIS	0	1	1
ASH (Fraxinus)					
	ANTHRACNOSE	- DISCULA	17	0	17
	CHEMICAL	- UNKNOWN	1	0	1
	ENVIRONMENTAL STRESSES		2	1	3
	INADEQUATE SPECIMEN, NO DISEASE		4	-	4
	INSECT INJURY		2	1	3
	POWDERY MILDEW	- PHYLLACTINIA	1	0	1
AZALEA - See listing under RHODODENDRON					
BALDCYPRESS (Taxodium)					
	INSECT INJURY		1	0	1
BARBERRY (Berberis)					
	CULTURAL	- TRANSPLANT SHOCK	1	0	1
	ENVIRONMENTAL	- COLD INJURY	2	0	2
	INADEQUATE SPECIMEN, NO DISEASE		2	-	2
BAYBERRY (Myrica)					
	CULTURAL	- TRANSPLANT SHOCK	1	0	1

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BEECH (Fagus)					
	CANKER	- NECTRIA	1	0	1
	NO DISEASE		1	-	1
BIRCH (Betula)					
	ENVIRONMENTAL	- STRESS	1	1	2
	INSECT INJURY		2	0	2
	LEAF SPOT	- FUNGAL	1	0	1
		- GLOEOSPORIUM	1	0	1
		- MARSSONINA	1	0	1
	NO DISEASE		1	-	1
	NUTRITIONAL	- FE DEFICIENCY	1	0	1
	PHYSICAL INJURY	- CONSTRUCTION	1	0	1
BITTERSWEET (Celatrus)					
	FRUIT SPOT	- CLADOSPORIUM	1	0	1
	INADEQUATE SPECIMEN		1	-	1
BLACKGUM (Nyssa)					
	ENVIRONMENTAL	- WET FEET	1	0	1
	INSECT INJURY		0	1	1
	LEAF SPOT	- COLLETOTRICHUM	1	0	1
BOXELDER (Acer)					
	INADEQUATE SPECIMEN, NO DISEASE		2	-	2
	INSECT INJURY		1	0	1
BOXWOOD (Buxus)					
	CULTURAL	- TRANSPLANT SHOCK	1	0	1
	ENVIRONMENTAL	- COLD INJURY	5	0	5
	NO DISEASE		2	-	2
BUCKTHORN (Rhamnus)					
	INADEQUATE SPECIMEN		1	-	1
CATALPA (Catalpa)					
	CHEMICAL INJURY	- UNKNOWN	1	0	1
	ENVIRONMENTAL	- COLD INJURY	1	0	1
	INADEQUATE SPECIMEN		1	-	1
	LEAF SPOT	- PHYLLOSTICTA	1	0	1
CEDAR - See listing under JUNIPER					
CHAMAECYPARIS (Chamaecyparis)					
	NO DISEASE		4	-	4
CHERRY (Prunus)					
	CULTURAL	- TRANSPLANT SHOCK	3	0	3
	ENVIRONMENTAL STRESSES		19	0	19
	INADEQUATE SPECIMEN, NO DISEASE		8	-	8
	INSECT INJURY		1	0	1

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CHERRY LAUREL (Prunus)					
	CHEMICAL INJURY	- HERBICIDE	0	1	1
	ENVIRONMENTAL	- COLD INJURY	1	0	1
	NO DISEASE		1	-	1
COTONEASTER (Coneaster)					
	CULTURAL	- OVERWATERING	1	0	1
COTTONWOOD (Populus)					
	LEAF SPOT	- MARSSONINA	1	0	1
CRABAPPLE (Malus)					
	CANKER	- BOTRYOSPHAERIA	0	1	1
	CULTURAL	- TRANSPLANT SHOCK	1	0	1
	FROGEYE	- BOTRYOSPHAERIA	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		4	-	4
	INSECT INJURY		1	1	2
	NUTRITIONAL	- N DEFICIENCY	1	0	1
	SCAB	- VENTURIA	4	0	4
	WOOD DECAY	- BASIDIOMYCETE	1	0	1
GRAPEMYRTLE (Lagerstroemia)					
	POWDERY MILDEW	- ERYSIPHE	3	0	3
DOGWOOD (Cornus)					
	ANTHRACNOSE	- DISCULA	17	0	17
	CHEMICAL INJURY	- GROWTH REGULATOR	1	0	1
		- UNKNOWN	2	0	2
	CULTURAL	- TRANSPLANT SHOCK	7	1	8
	ENVIRONMENTAL STRESSES		20	4	24
	FALL COLOR	- NORMAL	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		66	-	66
	INSECT INJURY		4	1	5
	LEAF SCORCH	- ENVIRONMENTAL	3	0	3
		- UNKNOWN	3	0	3
	LEAF SPOT	- PHOMOPSIS	1	0	1
		- PHYLLOSTICTA	2	0	2
		- SEPTORIA	4	0	4
	NUTRITIONAL	- ACID SOIL	0	1	1
		- UNKNOWN	1	0	1
	SPOT ANTHRACNOSE	- ELSINOE	4	0	4
	THREAD BLIGHT	- CERATOBASIDIUM	1	0	1
	WOOD DECAY	- BASIDIOMYCETE	1	0	1
DOUGLAS FIR (Pseudotsuga)					
	INADEQUATE SPECIMEN		1	-	1

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ELM (Ulmus)					
	DECLINE	- UNKNOWN	1	0	1
	DUTCH ELM DISEASE	- CERATOCYSTIS	5	0	5
	INADEQUATE SPECIMEN, NO DISEASE		12	-	12
	INSECT INJURY		3	0	3
	WOOD DECAY	- BASIDIOMYCETE	1	0	1
EUONYMUS (Euonymus)					
	CHEMICAL INJURY	- UNKNOWN	1	0	1
	CROWN GALL	- AGROBACTERIUM	3	0	3
	CULTURAL	- OEDEMA	1	0	1
	DOWNY MILDEW	- PERONOSPORA	1	0	1
	ENVIRONMENTAL STRESSES		6	1	7
	INSECT INJURY		6	0	6
	NO DISEASE		4	-	4
	POWDERY MILDEW	- MICROSPHAERA	6	1	7
FILBERT (Corylus)					
	CHEMICAL INJURY	- UNKNOWN	1	0	1
FIR (Abies)					
	CULTURAL	- IMPROPER DEPTH	1	0	1
	ENVIRONMENTAL	- WET FEET	1	0	1
	INSECT INJURY		2	0	2
	NO DISEASE		1	-	1
	TIP BLIGHT	- SPHAEROPSIS	1	0	1
FORSYTHIA (Forsythia)					
	INADEQUATE SPECIMEN, NO DISEASE		4	-	4
HACKBERRY (Celtis)					
	INSECT INJURY		3	0	3
	NO DISEASE		1	-	1
	WOOD DECAY	- BASIDIOMYCETE	1	0	1
HAWTHORN (Crataegus)					
	CEDAR-QUINCE RUST	- GYMNOSPORANGIUM	1	0	1
	CULTURAL	- TRANSPLANT SHOCK	1	0	1
	ENVIRONMENTAL	- WET FEET	0	1	1
	FIRE BLIGHT	- ERWINIA	1	0	1
	INSECT INJURY		2	0	2
	LEAF BLIGHT	- ENTOMOSPORIUM	1	0	1
HEMLOCK (Tsuga)					
	CULTURAL	- IMPROPER DEPTH	1	0	1
	ENVIRONMENTAL	- WET FEET	5	0	5
	INSECT INJURY		2	0	2
	NO DISEASE		3	-	3
	NEEDLE DROP	- NORMAL	1	0	1
HIBISCUS (Hibiscus)					
	CHEMICAL INJURY	- UNKNOWN	1	0	1

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HICKORY (Carya)					
	INADEQUATE SPECIMEN		2	-	2
	INSECT INJURY		5	0	5
	NUTRITIONAL	- ZINC DEFICIENCY	1	0	1
HOLLY, INKBERRY and WINTERBERRY (Ilex)					
	BLACK ROOT ROT	- CHARLARA	2	0	2
	CULTURAL	- IMPROPER DEPTH	1	0	1
		- NO POLLINATION	1	0	1
		- OEDEMA	1	0	1
		- TRANSPLANT SHOCK	3	0	3
	ENVIRONMENTAL STRESSES		11	2	13
	INADEQUATE SPECIMEN, NO DISEASE		14	-	14
	INSECT INJURY		9	2	11
	LEAF DROP	- NORMAL	0	1	1
	LEAF SPOT	- FUNGAL	3	0	3
		- PHYLLOSTICTA	1	0	1
	NUTRITIONAL	- IRON DEFICIENCY	3	1	4
		- HIGH pH	1	0	1
	TWIG BLIGHT	- PHOMA	1	0	1
HONEYLOCUST (Gleditsia)					
	ENVIRONMENTAL	- STRESS	0	1	1
	INSECT INJURY		1	0	1
	LEAF SPOT	- CERCOSPORA	1	0	1
		- SEPTORIA	1	0	1
HONEYSUCKLE (Lonicera)					
	ENVIRONMENTAL	- COLD INJURY	1	0	1
	NO DISEASE		1	-	1
HYDRANGEA (Hydrangea)					
	INSECT INJURY		3	0	3
	NO DISEASE		2	-	2
JUNIPER (Juniperus)					
	CEDAR/APPLE RUST	- GYMNOSPORANGIUM	1	0	1
	CEDAR/QUINCE RUST	- GYMNOSPORANGIUM	1	0	1
	CULTURAL	- TRANSPLANT SHOCK	3	0	3
	ENVIRONMENTAL STRESSES		8	0	8
	INSECT INJURY		9	2	11
	NO DISEASE		22	-	22
	PHYSICAL INJURY	- UNKNOWN	1	0	1
	SLIME MOLD	- species	1	0	1
	TWIG BLIGHT	- KABATINA	6	1	7
		- PHOMOPSIS	2	0	2

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LILAC (Syringa)					
	BACTERIAL BLIGHT	- PSEUDOMONAS	1	0	1
	CULTURAL	- OEDEMA	1	0	1
		- TRANSPLANT SHOCK	3	0	3
	ENVIRONMENTAL STRESSES		2	0	2
	INADEQUATE SPECIMEN, NO DISEASE		4	-	4
	INSECT INJURY		1	0	1
	POWDERY MILDEW	- MICROSPHAERA	1	0	1
	SOOTY MOLD	- species	0	1	1
LINDEN (Tilia)					
	ENVIRONMENTAL	- STRESS	1	0	1
	INADEQUATE SPECIMEN		1	-	1
LOCUST (Robinia)					
	INSECT INJURY		3	0	3
	LEAF SPOT	- CERCOSPORA	1	0	1
	NO DISEASE		1	-	1
MAGNOLIA (Magnolia)					
	BACTERIAL LEAF SPOT	- PSEUDOMONAS	0	1	1
	ENVIRONMENTAL STRESSES		5	3	8
	INSECT INJURY		11	2	13
	LEAF SCORCH	- ENVIRONMENTAL	4	0	4
	LEAF SPOT	- FUNGAL	2	0	2
	NO DISEASE		3	-	3
	NUTRITIONAL	- IRON DEFICIENCY	1	0	1
	PHYSICAL INJURY	- BIRD	1	0	1
MAHONIA (Mahonia)					
	ENVIRONMENTAL	- WINTER INJURY	1	0	1
	NO DISEASE		1	-	1
MAPLE (Acer)					
	ANTHRACNOSE	- DISCULA	1	1	2
		- KABATIELLA	6	0	6
	BULLS-EYE SPOT	- CRISTULARIELLA	1	0	1
	CHEMICAL INJURY	- HERBICIDE	2	0	2
	CULTURAL	- TRANSPLANT SHOCK	6	0	6
	DECLINE	- ENVIRONMENTAL, UNKNOWN	4	0	4
	ENVIRONMENTAL STRESSES		19	2	21
	INADEQUATE SPECIMEN, NO DISEASE		46	-	46
	INSECT INJURY		27	1	28
	LEAF SCORCH	- ENVIRONMENTAL, UNKNOWN	3	0	3
	LEAF SPOT	- DICHOMERA	1	0	1
		- PHYLLOSTICTA	9	1	10
		- SEPTORIA	1	0	1
	NUTRITIONAL	- ACID SOIL	0	1	1
		- GENERAL	1	0	1
		- SOLUBLE SALTS	2	0	2
	PHYSICAL INJURY	- TOPPING	1	0	1
	WILT	- VERTICILLIUM	8	0	8

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
MOUNTAIN ASH (Sorbus)					
	CANKER	- CYTOSPORA	1	0	1
MOUNTAIN LAUREL (Kalmia)					
	LEAF SPOT	- PHYLLOSTICTA	1	0	1
	INSECT INJURY		0	1	1
MULBERRY (Morus)					
	POPCORN DISEASE	- CIBORIA	1	0	1
OAK (Quercus)					
	ANTHRACNOSE	- APIOGNOMONIA	2	0	2
	BACTERIAL SCORCH	- XYLELLA	10	0	10
	CANKER/DIEBACK	- BOTRYOSPHAERIA	1	0	1
	CHEMICAL INJURY	- GROWTH REGULATOR	4	0	4
		- HERBICIDE	4	0	4
	CULTURAL	- TRANSPLANT SHOCK	1	0	1
	ENVIRONMENTAL STRESSES		11	1	12
	INADEQUATE SPECIMEN, NO DISEASE		26	-	26
	INSECT INJURY		22	5	27
	LEAF BLISTER	- TAPHRINA	1	0	1
	LEAF SCORCH	- ENVIRONMENTAL	4	0	4
	LEAF SPOT	- TUBAKIA	13	4	17
	NUTRITIONAL	- ACID SOIL	2	0	2
		- GENERAL	0	1	1
		- IRON DEFICIENCY	4	3	7
		- HIGH pH	1	0	1
	PHYSICAL INJURY	- UNKNOWN	1	0	1
	POWDERY MILDEW	- species	3	1	4
	WOOD DECAY	- BASIDIOMYCETE	1	0	1
PAGODATREE (Saphora)					
	NO DISEASE		1	-	1
PEAR (Pyrus)					
	CHEMICAL INJURY	- GROWTH REGULATOR	1	0	1
		- HERBICIDE	1	0	1
	CULTURAL	- TRANSPLANT SHOCK	3	0	3
	ENVIRONMENTAL	- STRESS	2	0	2
	FIRE BLIGHT	- ERWINIA	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		3	-	3
	INSECT INJURY		1	0	1
PHOTINIA (Photinia)					
	LEAF SPOT	- ENTOMOSPORIUM	3	0	3
PINE (Pinus)					
	AIR POLLUTION	- OZONE	1	0	1
	CANKER	- ATROPELIS	1	0	1
		- FUNGAL	1	0	1
	CULTURAL	- TRANSPLANT SHOCK	13	0	13
	DECLINE	- ENVIRONMENTAL	1	0	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
PINE (cont)					
	ENVIRONMENTAL STRESSES		20	4	24
	INADEQUATE SPECIMEN, NO DISEASE		51	-	51
	INSECT INJURY		35	2	37
	NEEDLE CAST	- LOPHODERMIIUM	3	0	3
	NEEDLE DROP	- NORMAL	7	0	7
	NEEDLE RUST	- COLEOSPORIUM	5	0	5
	PHYSICAL INJURY	- CULTURAL	1	0	1
		- WOODPECKER	1	0	1
	PINEWOOD NEMATODE	- BURSAPHELENCUS	1	0	1
	SOOTY MOLD	- species	3	0	3
	TIP BLIGHT	- SPHAEROPSIS	37	0	37
	TIP BURN	- UNKNOWN	2	0	2
	UNKNOWN	- SAPROPHYTE	1	0	1
	WOOD DECAY	- ASCOMYCETE	1	0	1
	WHITE PINE DECLINE	- ENVIRONMENTAL	24	0	24
PLUM (Prunus)					
	ENVIRONMENTAL	- COLD INJURY	1	0	1
	INADEQUATE SPECIMEN		1	-	1
POPLAR (Populus)					
	CHEMICAL INJURY	- GROWTH REGULATOR	1	0	1
	ENVIRONMENTAL	- COLD INJURY	14	0	14
	INSECT INJURY		5	0	5
	LEAF BLIGHT	- MARSSONINA	1	0	1
	NO DISEASE		3	-	3
PRIVET (Ligustrum)					
	ENVIRONMENTAL	- WET FEET	1	0	1
PYRACANTHA (Pyracantha)					
	ENVIRONMENTAL	- WET FEET	1	0	1
	FIRE BLIGHT	- ERWINIA	1	0	1
	INSECT INJURY		2	1	3
	NO DISEASE		1	-	1
	SCAB	- SPILOCAEA	1	0	1
RAINTREE (Samanea)					
	CANKER	- CYTOSPORA	1	0	1
REDBUD (Cercis)					
	CANKER	- BOTRYOSPHAERIA	1	0	1
	CULTURAL	- TRANSPLANT SHOCK	1	0	1
	ENVIRONMENTAL	- COLD INJURY	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		2	-	2
	INSECT INJURY		2	0	2
	WILT	- VERTICILLIUM	1	0	1
REDWOOD, DAWN (Metasequoia)					
	ENVIRONMENTAL	- COLD INJURY	1	0	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
RHODODENDRON and AZALEA (Rhododendron)					
CULTURAL		- OEDEMA	1	0	1
		- TRANSPLANT SHOCK	9	0	9
DIEBACK		- BOTRYOSPHAERIA	2	1	3
ENVIRONMENTAL STRESSES			15	1	16
INADEQUATE SPECIMEN, NO DISEASE			28	-	28
INSECT INJURY			10	1	11
LEAF/FLOWER GALL		- EXOBASIDIUM	2	0	2
LEAF SCORCH		- WINTER DRYING	1	0	1
NUTRITIONAL		- FE DEFICIENCY	1	0	1
PHYSICAL INJURY		- CONSTRUCTION	1	0	1
ROSE (Rosa)					
BLACK SPOT		- DIPLOCARPON	3	1	4
BROWN CANKER		- CRYPTOSPORELLA	0	1	1
CHEMICAL INJURY		- GROWTH REGULATOR	1	0	1
		- HERBICIDE	2	0	2
CULTURAL		- HEAT STRESS	1	0	1
ENVIRONMENTAL STRESSES			2	1	3
GRAY MOLD		- BOTRYTIS	1	0	1
INADEQUATE SPECIMEN, NO DISEASE			3	-	3
INSECT INJURY			1	1	2
PHYSICAL INJURY		- UNKNOWN	2	0	2
POWDERY MILDEW		- SPHAEROTHECA	3	0	3
ROSETTE		- UNKNOWN	5	0	5
SPOT ANTHRACNOSE		- ELSINOE	0	1	1
VIRUS		- ROSE MOSAIC	1	1	2
RUSSIAN-OLIVE (Elaeagnus)					
CANKER		- BOTRYOSPHAERIA	1	0	1
SERVICEBERRY (Amelanchier)					
CULTURAL		- TRANSPLANT SHOCK	1	0	1
SOURWOOD (Oxydendrum)					
ENVIRONMENTAL		- COLD INJURY	1	0	1
SPRUCE (Picea)					
CANKER		- FUNGAL	0	1	1
CULTURAL		- OEDEMA	1	0	1
		- TRANSPLANT SHOCK	2	1	3
ENVIRONMENTAL STRESSES			17	1	18
INSECT INJURY			27	2	29
NEEDLE CAST		- RHIZOSPHAERA	2	0	2
NO DISEASE			20	-	20
PHYSICAL INJURY		- UNKNOWN	1	0	1
SWEETGUM (Liquidambar)					
CULTURAL		- OEDEMA	2	0	2
INADEQUATE SPECIMEN, NO DISEASE			2	-	2

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
SYCAMORE and PLANETREE (Platanus)					
	ANTHRACNOSE	- APIOGNOMONIA	8	0	8
	CULTURAL	- TRANSPLANT SHOCK	1	0	1
	NO DISEASE		1	-	1
	THREAD BLIGHT	- CERATOBASIDIUM	1	0	1
TAXUS (Taxus)					
	BACTERIAL SOFT ROT	- ERWINIA	1	0	1
	BLACKLEG	- ERWINIA	0	1	1
	CULTURAL	- IMPROPER DEPTH	1	0	1
		- OEDEMA	0	1	1
	ENVIRONMENTAL STRESSES		16	0	16
	INADEQUATE SPECIMEN, NO DISEASE		36	-	36
	INSECT INJURY		1	0	1
	PHYSICAL INJURY	- PRUNING	0	1	1
	ROOT ROT	- PHYTOPHTHORA	1	0	1
TULIPTREE (Liriodendron)					
	AIR POLLUTION	- OZONE	0	1	1
	ANTHRACNOSE	- GLOMERELLA	2	0	2
	INADEQUATE SPECIMEN, NO DISEASE		2	-	2
	POWDERY MILDEW	- PHYLLACTINIA	1	0	1
	THREAD BLIGHT	- CERATOBASIDIUM	1	0	1
VIBURNUM (Viburnum)					
	BACTERIAL LEAF SPOT	- PSEUDOMONAS	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		4	-	4
	INSECT INJURY		1	0	1
WALNUT (Juglans)					
	ANTHRACNOSE	- GNOMONIA	1	0	1
	INSECT INJURY		1	0	1
	NUTRITIONAL	- ZINC DEFICIENCY	1	0	1
WEIGELA (Weigela)					
	NO DISEASE		1	-	1
WILLOW (Salix)					
	CANKER	- BOTRYOSPHAERIA	1	1	2
		- CRYPTODIAPORTHE	0	1	1
	CROWN GALL	- AGROBACTERIUM	1	0	1
	ENVIRONMENTAL STRESSES		6	0	6
	INADEQUATE SPECIMEN, NO DISEASE		5	-	5
	INSECT INJURY		2	0	2
	LEAF BLIGHT	- VENTURIA	1	0	1
WISTERIA (Wisteria)					
	NO DISEASE		1	-	1
YELLOWWOOD (Cladrastis)					
	CULTURAL	- TRANSPLANT SHOCK	1	0	1
	ENVIRONMENTAL	- WET FEET	0	1	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
<u>VEGETABLES</u>					
ASPARAGUS (Asparagus)					
	INSECT INJURY		1	0	1
	NO DISEASE		1	-	1
BEAN (Phaseolus)					
	AIR POLLUTION	- OZONE	1	0	1
	ANTHRACNOSE	- COLLETOTRICHUM	2	0	2
	DAMPING-OFF	- RHIZOCTONIA	2	0	2
	ENVIRONMENTAL STRESSES		10	1	11
	GRAY MOLD	- BOTRYTIS	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		10	-	10
	INSECT INJURY		1	2	3
	NUTRITIONAL	- ACID SOIL	1	0	1
		- GENERAL	1	0	1
		- NITROGEN TOXICITY	1	0	1
	ROOT PROBLEM	- UNKNOWN	1	0	1
	ROOT/STEM ROT	- RHIZOCTONIA	6	1	7
	RUST	- UROMYCES	1	0	1
	VIRUS	- BEAN COMMON MOSAIC	1	0	1
		- BEAN YELLOW MOSAIC	7	0	7
	WEB BLIGHT	- RHIZOCTONIA	1	0	1
	YEAST SPOT	- NEMATOSPORA	1	0	1
BROCCOLI - see listing under CRUCIFERS					
CABBAGE - see listing under CRUCIFERS					
CANTALOUPE - see listing under CUCURBITS					
CAULIFLOWER - see listing under CRUCIFERS					
CORN, sweet (Zea)					
	CHEMICAL INJURY	- UNKNOWN	1	0	1
	CULTURAL	- POOR GERMINATION	1	0	1
	EAR/KERNEL ROT	- DIPLODIA	1	0	1
	ENVIRONMENTAL	- STRESS	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		3	-	3
	INSECT INJURY		2	0	2
	NORTHERN LEAF BLIGHT	- SETOSPHAERIA	0	1	1
	NUTRITIONAL	- ACID SOIL	2	0	2
		- FERTILIZER BURN	1	0	1
		- MANGANESE TOXICITY	1	0	1
		- UNKNOWN	1	0	1
		- ZN DEFICIENCY	2	0	2
	POOR POLLINATION	- UNKNOWN	1	0	1
	RUST	- PUCCINIA	2	0	2
	STEWART'S WILT	- ERWINIA	7	0	7
	VIRUS	- MAIZE CHLOROTIC DWARF	0	2	2
		- MAIZE DWARF MOSAIC	2	0	2
		- UNKNOWN	1	0	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
CRUCIFERS - BROCCOLI, CABBAGE, CAULIFLOWER, KALE and TURNIP (Brassica) and RADISH (Raphanus)					
	BLACK ROOT ROT	- APHANOMYCES	2	0	2
	BLACK ROT	- XANTHOMONAS	3	0	3
	BLACK SPOT	- ALTERNARIA	3	1	4
	CHEMICAL INJURY	- GROWTH REGULATOR	1	0	1
		- HERBICIDE	1	0	1
	CULTURAL	- OEDEMA	0	1	1
	DAMPING-OFF	- PYTHIUM	1	0	1
		- RHIZOCTONIA	1	0	1
	DOWNY MILDEW	- PERONOSPORA	5	0	5
	EARLY FLOWERING	- ENVIRONMENTAL	1	0	1
	ENVIRONMENTAL STRESSES		2	0	2
	INADEQUATE SPECIMENS, NO DISEASE		16	-	16
	LEAF SPOT	- PSEUDOMONAS	1	0	1
	NUTRITIONAL	- ACID SOIL	1	0	1
		- GENERAL	1	0	1
		- UNKNOWN	1	0	1
	ROOT KNOT NEMATODE	- MELOIDOGYNE	1	0	1
	WIRE STEM	- RHIZOCTONIA	3	0	3
CUCURBITS - CANTALOUPE, CUCUMBER (Cucumis), PUMPKIN, SQUASH (Cucurbita) and WATERMELON (Citrulis)					
	ANTHRACNOSE	- COLLETOTRICHUM	1	0	1
	BACTERIAL SPOT	- XANTHOMONAS	1	0	1
	BACTERIAL WILT	- ERWINIA	5	0	5
	CHEMICAL INJURY	- UNKNOWN	2	0	2
	CULTURAL	- TRANSPLANT SHOCK	1	0	1
	DAMPING-OFF	- PYTHIUM	1	0	1
		- RHIZOCTONIA	1	0	1
	DOWNY MILDEW	- PSEUDOPERONOSPORA	2	1	3
	ENVIRONMENTAL STRESSES		6	0	6
	FRUIT CRACK	- PHYSIOLOGICAL	1	0	1
	FRUIT ROT	- CHOANEPHORA	1	1	2
	GUMMY STEM BLIGHT	- DIDYMELLA	2	0	2
	INADEQUATE SPECIMEN, NO DISEASE		26	-	26
	INSECT INJURY		2	0	2
	LEAF SPOT	- ALTERNARIA	0	2	2
	NUTRITIONAL	- ACID SOIL	2	0	2
		- UNKNOWN	2	0	2
	POLLINATION PROBLEM	- UNKNOWN	2	0	2
	POWDERY MILDEW	- ERYSIPE	3	0	3
		- SPHAEROTHECA	1	0	1
	ROOT ROT	- FUSARIUM	1	0	1
	VIRUS	- CUCUMBER MOSAIC	1	0	1
		- SQUASH MOSAIC	1	0	1
		- UNKNOWN	1	0	1
	ROOT ROT	- FUSARIUM	3	0	3
	ROOT/STEM ROT	- RHIZOCTONIA			

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
EGGPLANT (Solanum)					
	CHEMICAL INJURY	- UNKNOWN	1	0	1
LETTUCE (Lactuca)					
	CHEMICAL INJURY	- BIOCIDES	1	0	1
	INSECT INJURY		1	0	1
	NO DISEASE		1	-	1
	NUTRITIONAL	- ACID SOIL	1	0	1
OKRA (Hibiscus)					
	BLACK ROOT ROT	- CHARLARA	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		3	-	3
ONION (Allium)					
	NUTRITIONAL	- FERTILIZER BURN	1	0	1
PEA (Pisum)					
	CULTURAL	- OEDEMA	1	0	1
	ENVIRONMENTAL	- SUNSCLAD	2	0	2
	INADEQUATE SPECIMEN, NO DISEASE		3	-	3
	NUTRITIONAL	- IRON DEFICIENCY	1	0	1
	ROOT ROT	- RHIZOCTONIA	1	0	1
	VIRUS	- PEA MOSAIC	1	0	1
		- UNKNOWN	1	0	1
PEANUT (Arachis)					
	BLIGHT	- BOTRYTIS	1	0	1
	INSECT INJURY		1	0	1
	STEM BLIGHT	- SCLEROTINIA	1	0	1
PEPPER (Capsicum)					
	ANTHRACNOSE	- COLLETOTRICHUM	5	0	5
	BACTERIAL LEAF SPOT	- ERWINIA	1	0	1
	BACTERIAL SPOT	- XANTHOMONAS	25	2	27
	BLOSSOM END ROT	- CA DEFICIENCY/DRY	1	0	1
	CHEMICAL INJURY	- GROWTH REGULATOR	3	0	3
		- HERBICIDE	1	0	1
		- UNKNOWN	2	0	2
	ENVIRONMENTAL STRESSES		7	0	7
	FRUIT SPOT	- UNKNOWN	1	0	1
	GRAY MOLD	- BOTRYTIS	3	0	3
	INADEQUATE SPECIMEN, NO DISEASE		28	-	28
	INSECT INJURY		3	1	4
	LEAF ROLL	- PHYSIOLOGICAL	0	1	1
	LEAF SPOT	- FUNGAL	1	0	1
	ROOT ROT	- RHIZOCTONIA	1	0	1
	SOUTHERN BLIGHT	- ATHELIA	2	0	2
	STEM ROT	- BOTRYTIS	1	2	3
		- SCLEROTINIA	4	0	4
	VIRUS	- TOMATO SPOTTED WILT	2	0	2
		- UNKNOWN	3	0	3
	WILT	- PHYTOPHTHORA	1	0	1

<i>CROP</i>	<i>DIAGNOSIS</i>	<i>CAUSAL AGENT</i>	<i>#1 DIAGs</i>	<i>#2 DIAGs</i>	<i>TOTAL</i>
POTATO (Solanum)					
	BLACK LEG	- ERWINIA	5	0	5
	HOLLOW HEART	- ENVIRONMENTAL	2	0	2
	INADEQUATE SPECIMEN, NO DISEASE		4	-	4
	INSECT INJURY		1	0	1
	INTERNAL BROWN SPOT	- HEAT/DROUGHT	1	0	1
	ROOT KNOT NEMATODE	- MELOIDOGYNE	1	0	1
	SCAB	- STREPTOMYCES	1	0	1
	VIRUS	- UNKNOWN	1	0	1
PUMPKIN - see listing under CUCURBITS					
RADISH - see listing under CRUCIFERS					
RHUBARB (Rheum)					
	CROWN ROT	- FUNGAL	1	0	1
		- PHYTOPHTHORA	1	0	1
	ENVIRONMENTAL	- WET FEET	1	0	1
	NO DISEASE		1	-	1
SQUASH - see listing under CUCURBITS					
SWEET POTATO (Ipomoea)					
	ENVIRONMENTAL	- GROWTH CRACK	1	0	1
		- STRESS	1	0	1
	SCURF	- MONILOCHAETE	2	0	2
TOMATO (Lycopersicon)					
	ANTHRACNOSE	- COLLETOTRICHUM	1	0	1
	BACTERIAL CANKER	- CLAVIBACTER	3	0	3
	BACTERIAL SPECK	- PSEUDOMONAS	1	0	1
	BACTERIAL SPOT	- XANTHOMONAS	2	0	2
	BLOSSOM END ROT	- CA DEFICIENCY/DRY	4	0	4
	BLOTCHY RIPENING	- PHYSIOLOGICAL	1	0	1
	BUCKEYE ROT	- PHYTOPHTHORA	5	0	5
	CATFACING	- ENVIRONMENTAL	3	1	4
	CHEMICAL INJURY	- BURN	1	0	1
		- GROWTH REGULATOR	4	0	4
		- HERBICIDE	3	0	3
		- UNKNOWN	3	0	3
	CULTURAL	- OVERWATERING	1	1	2
		- POOR LIGHT	0	1	1
	EARLY BLIGHT	- ALTERNARIA	21	1	22
	ENVIRONMENTAL STRESSES		11	3	14
	FRUIT ROT	- FUNGAL	1	0	1
	GRAY WALL	- PHYSIOLOGICAL	1	0	1
	INADEQUATE SPECIMEN, NO DISEASE		63	-	63
	INSECT INJURY		3	4	7
	INTERNAL WHITE TISSUE	- UNKNOWN	2	0	2
	LATE BLIGHT	- PHYTOPHTHORA	5	0	5
		- STEMPHYLIUM	1	0	1

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TOMATO (cont)					
	LEAF MOLD	- CLADOSPORIUM	1	0	1
	LEAF ROLL	- PHYSIOLOGICAL	3	1	4
	LEAF SPOT	- SEPTORIA	5	0	5
	NAIL HEAD SPOT	- ALTERNARIA	1	0	1
	NUTRITIONAL	- FERTILIZER BURN	2	0	2
		- GENERAL	4	1	5
		- MAGNESIUM DEFICIENCY	1	0	1
		- MANGANESE DEFICIENCY	2	0	2
		- N DEFICIENCY	3	0	3
		- POTASSIUM DEFICIENCY	1	1	2
	PHYSIOLOGICAL	- UNKNOWN	1	0	1
	POLLINATION PROBLEM	- UNKNOWN	0	1	1
	ROOT KNOT NEMATODE	- MELOIDOGYNE	1	0	1
	ROOT/STEM ROT	- RHIZOCTONIA	1	0	1
	STEM ROT	- SCLEROTINIA	8	0	8
	UNKNOWN		1	-	1
	VIRUS	- TOMATO SPOTTED WILT	9	0	9
		- UNKNOWN	1	0	1
	WALNUT WILT	- JUGLONE	6	0	6
	WILT	- FUSARIUM	4	0	4
	ZIPPERING	- ENVIRONMENTAL	1	1	2

TURNIP - see listing under CRUCIFERS

WATERMELON - see listing under CUCURBITS

TOTALS **8378** **533** **8911**

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