



**Plant Disease Diagnostic Laboratory  
Summary**

**2015**

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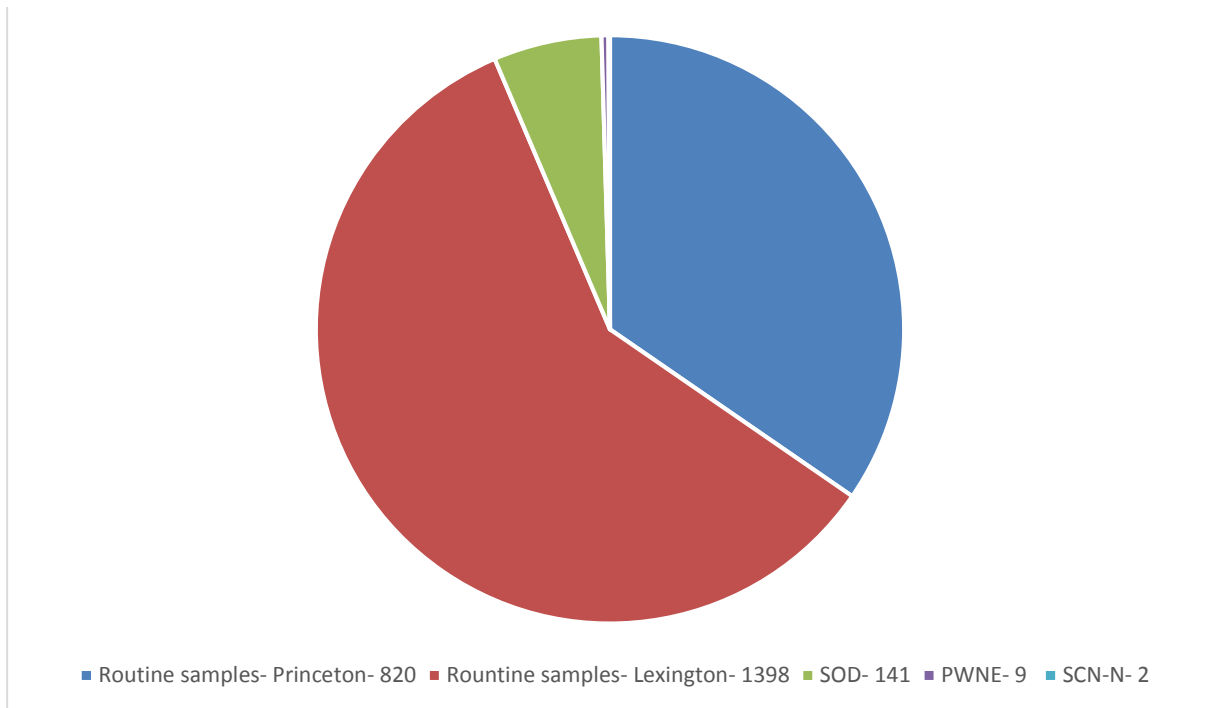
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## INTRODUCTION

The Plant Disease Diagnostic Laboratory (Lexington and Princeton) processed 2370 plant samples. Plant samples with more than one problem numbered 448 bringing the total number of actual diagnoses to 2818. The Lexington Laboratory diagnosed 1548 specimens, including 1398 routine plant samples, 141 samples from commercial nurseries surveyed for the Sudden Oak Death (SOD) pathogen, and 9 eastern red cedar (*Juniperus virginiana*) samples from commercial lumber companies for pinewood nematode extraction (PWNE). The Princeton Laboratory diagnosed 820 routine plant specimens and 2 soil samples from commercial nurseries for soybean cyst nematode screening. Sample totals are summarized in Figure 1 below.

**Figure 1: Plant Disease Diagnostic Laboratory – 2015**



<b>Total Samples</b>	<b>2370</b>
<b><u>Samples with &gt;1 diagnosis</u></b>	<b><u>448</u></b>
	<b>2818</b>

## NATURE OF WORK

Plant disease diagnosis is an ongoing educational and research activity of the U.K. Department of Plant Pathology. There are two branches of the Plant Disease Diagnostic Laboratory (PDDL), one on the U.K. campus in Lexington, and one at the U.K. Research and Education Center in Princeton.

Diagnosis of plant diseases requires keen observation and investigation into the possible causes of plant problems. Most visual diagnoses involve microscopy to determine which plant parts are affected and to identify the pathogen(s) involved. In addition, many specimens require special tests such as moist chamber incubation, pathogen isolation from plant tissue, enzyme-linked immunosorbent assay (ELISA), nematode extraction, or soil pH and soluble salts tests. The laboratory uses the polymerase-chain-reaction (PCR) technique for identification of certain pathogens.

A database of laboratory records is maintained to provide information used for conducting plant disease surveys, identifying new disease outbreaks, and formulating educational programs. In addition, information from the laboratory provides the basis for timely news of plant disease problems through the Kentucky Pest News newsletter, radio and television tapes, and plant health care workshops. Both laboratories report diagnoses of plant diseases to USDA-APHIS as part of the National Plant Diagnostic Network.

## WEATHER SUMMARY

In 2015 Kentucky temperatures were slightly above normal and precipitation was well above normal. The state averaged 58.29 inches of precipitation for the year, which is over 10 inches above normal. This ranks as the 5<sup>th</sup> wettest year in Kentucky with data going back to 1895.

A major winter storm dropped 8 to 12 inches of snow across much of the state on February 16<sup>th</sup>, followed by a round of dangerously cold Arctic air. It was the fourth coldest February on record. Another significant winter storm occurred during the first week of March and was followed by another Arctic event with temperatures again dropping well below zero. April was the second wettest on record, with an average of 8 inches of precipitation statewide (4 inches above normal), which delayed planting through much of the month. One frost/freeze event occurred on the night of April 23<sup>rd</sup> with temperatures in the upper 20s to low 30s. May was dry with an average of 2.67 inches of rain, but a wet weather pattern developed by late June, and July was the wettest on record with 9.37 inches of rain. Cooler temperatures and below normal precipitation prevailed from August until late October. The first frost across much of the state occurred on the nights of October 16<sup>th</sup> and 17<sup>th</sup>. November was the 7<sup>th</sup> warmest and December was warmest on record with highs in the 70s on multiple occasions. 2015 ended with four straight months of above normal temperatures.

Detailed Kentucky weather information is available from the UK AgWeather Center at <http://www.agwx.ca.uky.edu>.

## ACKNOWLEDGMENTS

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## EXPLANATORY REMARKS

In the main body of this report (Table 10), three columns of numbers appear following the diagnosis and causal agent sections. The first column contains the number of primary diagnoses, the second column contains the number of secondary diagnoses and the third column is the total of columns 1 and 2. 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 not as a primary problem, thus a zero (0) will appear in the primary diagnosis column.

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 crop specialist. Specialists in other departments at UK also may have provided input on diagnoses of abiotic problems.

**Table 1. SUMMARY OF DIAGNOSES<sup>a</sup> BY CROP CATEGORY AND CAUSAL AGENT TYPE**

<b>Crop Category</b>	<b>Abiotic Problems</b>	<b>Biotic<sup>b</sup> Problems</b>	<b>Chemical Injury</b>	<b>Inadequate Specimen</b>	<b>Insect Injury</b>	<b>Other<sup>c</sup></b>	<b>Total Diagnoses</b>
<b>Agronomic</b>							
Corn	26	29	2	1	2	4	64
Forages	9	22	1	1	0	1	34
Small grains	6	16	1	0	1	3	27
Soybeans	27	41	8	3	1	11	91
Tobacco	47	147	23	3	3	22	245
<b>Fruit</b>							
Small fruit	19	73	7	1	11	9	120
Tree fruit	17	70	2	1	35	13	138
<b>Herbs</b>	5	15	0	0	1	0	21
<b>Identifications</b>	0	33	0	5	0	0	38
<b>Ornamentals</b>							
Herbaceous/ Houseplants	33	135	4	2	20	14	208
Turfgrass	15	66	1	10	1	7	100
Woody	249	465 <sup>d</sup>	38	11	189	235 <sup>d</sup>	1187
<b>Vegetables</b>	59	326	45	13	34	32	509
<b>Miscellaneous</b>	5	18	1	0	3	9 <sup>e</sup>	36
<b>Total</b>	<b>517</b>	<b>1456</b>	<b>133</b>	<b>51</b>	<b>301</b>	<b>360</b>	<b>2818</b>

<sup>a</sup>All counts and totals include primary diagnoses plus secondary diagnoses.

<sup>b</sup>Refer to Table 2 for further breakdown of this category.

<sup>c</sup>"Other" includes the causal agent categories: No disease and Unknown.

<sup>d</sup>Numbers include 141 SOD survey samples (38 fungal disease diagnoses; 103 samples with no disease) and 9 juniper no disease.

<sup>e</sup>Number includes 2 SCN-N samples.

<b>Crop Category</b>	<b>Bacterial</b>	<b>Fungal</b>	<b>Nematode</b>	<b>Virus</b>	<b>Other<sup>b</sup></b>
<b>Agronomic</b>					
Corn	1	28	0	0	0
Forages	1	21	0	0	0
Small grains	0	13	0	3	0
Soybeans	0	40	1	0	0
Tobacco	12	124	0	11	0
<b>Fruit</b>					
Small fruit	5	68	0	0	0
Tree fruit	17	53	0	0	0
<b>Herbs</b>					
	1	14	0	0	0
<b>Identifications</b>					
	0	22	0	0	11
<b>Ornamentals</b>					
Herbaceous/ Houseplants	13	117	1	2	2
Turfgrass	0	66	0	0	0
Woody	54	396 <sup>c</sup>	2	2	11
<b>Vegetables</b>					
	49	259	3	15	0
<b>Miscellaneous</b>					
	1	14	0	1	0
<b>Total</b>	<b>154</b>	<b>1235</b>	<b>7</b>	<b>34</b>	<b>24</b>

<sup>a</sup>All counts and totals include primary diagnoses plus secondary diagnoses.

<sup>b</sup>"Other" includes these categories: Animal (rodent and bird damage), Plant (plant identifications or parasitic plant) and Alga, Lichen and Phytoplasma.

<sup>c</sup>Number includes 38 Sudden Oak Death (SOD) survey samples with problems caused by fungi.

<b>Crop Category</b>	<b>No. of Plant Specimens</b>	<b>% of Total Plant Specimens</b>
Agronomic (-Tobacco)	170	7.2
Tobacco	205	8.6
Fruit	215	9.1
Herbs	19	0.8
Identifications	38	1.6
Ornamentals (+141 SODs + 9 PWNs)	1258	53.1
Vegetables	432	18.2
Miscellaneous (+2 SCN-Ns)	33	1.4
<b>Total Plant Samples</b>	<b>2370</b>	<b>100.00</b>

**Table 4. SUMMARY OF DIAGNOSES BY CROP CATEGORY AND CROP**

<b>Crop Category and Crop</b>	<b>No. of Primary Diagnoses<sup>a</sup></b>	<b>No. of Secondary Diagnoses<sup>b</sup></b>	<b>Total Diagnoses<sup>c</sup></b>
<b>Agronomic</b>			
Corn	49	15	64
Forages	26	8	34
Small grains	23	4	27
Soybeans	72	19	91
Tobacco	205	40	245
<b>Fruit</b>			
Small fruit	99	21	120
Tree fruit	116	22	137
<b>Herbs</b>	19	2	21
<b>Identifications</b>	38	NA	37
<b>Ornamentals</b>			
Herbaceous and Houseplants	166	41	207
Turfgrass	83	17	100
Woody	1009 <sup>d</sup>	179	1190
<b>Vegetables</b>	432	77	509
<b>Miscellaneous<sup>e</sup></b>	33	3	36
<b>Total</b>	<b>2370</b>	<b>448</b>	<b>2818</b>

<sup>a</sup>The number of primary diagnoses corresponds to the number of different specimens examined.

<sup>b</sup>If a second problem was evident on the plant specimen it was considered the secondary diagnosis.

<sup>c</sup>Total diagnoses equals the number of primary plus the number of secondary diagnoses.

<sup>d</sup>Number include 141 SOD samples and 9 PWNE samples.

<sup>e</sup>Number include 2 SCN-N samples



**Table 5. SUMMARY OF ROUTINE SAMPLES RECEIVED BY GROWER TYPE AND CROP CATEGORY**

Crop Group	Grower Type							
	Commercial		Homeowner		Research		Institution	
	Ext <sup>a</sup>	NE <sup>b</sup>	Ext <sup>a</sup>	NE <sup>b</sup>	Ext <sup>a</sup>	NE <sup>b</sup>	Ext <sup>a</sup>	NE <sup>b</sup>
<b>Agronomic</b>								
Corn	47	1	0	0	0	1	0	0
Forages	18	0	0	0	0	8	0	0
Small grains	12	7	0	0	1	3	0	0
Soybeans	62	9	0	0	0	1	0	0
Tobacco	191	6	0	0	1	7	0	0
<b>Fruit</b>								
Small Fruit	45	0	48	3	0	3	0	0
Tree Fruit	17	1	92	1	1	2	2	0
<b>Herbs</b>								
	13	0	4	0	1	0	0	1
<b>Identifications</b>								
	3	2	26	3	0	2	0	2
<b>Ornamental</b>								
Herbaceous/ Houseplants	86	17	57	3	0	3	0	0
Turfgrass	27	19	31	1	1	2	0	2
Woody	84	149	580	22	1	4	15	4
<b>Vegetable</b>								
	214	9	173	7	3	16	8	2
<b>Miscellaneous</b>								
	21	2	1	0	1	6	0	0
<b>Total</b>	<b>840</b>	<b>222</b>	<b>1012</b>	<b>40</b>	<b>10</b>	<b>58</b>	<b>25</b>	<b>11</b>
<b>Total/Grower Type</b>	<b>1062</b>		<b>1052</b>		<b>68</b>		<b>36</b>	
<b>Total No. of routine samples received = 2218</b>								

<sup>a</sup>Ext = Extension samples submitted via County Extension Agents or Extension Specialists.

<sup>b</sup>NE = Non-extension samples submitted directly by the grower or other non-extension clients.

**Table 6. NUMBER OF ROUTINE 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	
Agdia, Inc.	3	0	0	0	0	3
Entomology Department	6	12	53	11	0	82
Horticulture Department	1	11	51	17	4	84
Plant & Soil Sciences Department	102	2	7	14	5	130
<b>Total</b>						<b>299</b>
<b>Total no. of routine plant specimens</b>						<b>2218</b>
<b>Percentage of specimens referred outside Diagnostic Lab for diagnosis</b>						<b>13.5</b>

\*Numbers do not reflect the total no. of diagnoses and/or consultations conducted by other departments (See Table 9).

**Table 7. SPECIAL LABORATORY TESTS PERFORMED BY PLANT DISEASE DIAGNOSTIC LABORATORY\***

Test	No. of Tests
Polymerase Chain Reaction (PCR)	11
Culturing	36
Enzyme-linked Immunosorbent Assay (ELISA) (127 routine plant samples + 141 SOD)	268
Microscopy	1430
Nematode extraction (2 routine plant samples + 9 PWNE +2 SCN-N)	13
Soil tests	36
Visual examination	576
<b>Total</b>	<b>2370</b>

\*Based on 2218 routine plant samples, 9 PWNE, 2 SCN-N and 141 SOD samples = 2370

Note: Some samples may have required more than one test but only the definitive test was recorded.

**Table 8. NO. OF ROUTINE PLANT SAMPLES RECEIVED BY COUNTY AND CROP CATEGORY  
(KY AND OUT-OF-STATE SOURCES)<sup>a</sup>**

COUNTY	TOTAL	AGRONOMIC <sup>b</sup>	TOBACCO	FRUIT	ORNAMENTAL	VEGETABLE	OTHER
ADAIR	14	2	3	2	5	2	0
ALLEN	29	0	1	0	5	23	0
ANDERSON	18	3	0	4	6	5	0
BALLARD	9	2	0	2	5	0	0
BARREN	26	4	1	2	14	5	0
BATH	14	6	0	2	4	2	0
BELL	4	0	0	1	2	1	0
BOONE	43	0	0	2	36	5	0
BOURBON	17	3	3	0	7	0	4
BOYD	7	0	0	0	6	1	0
BOYLE	13	0	1	0	6	3	3
BRACKEN	2	1	1	0	0	0	0
BREATHITT	15	0	1	4	1	8	1
BRECKINRIDGE	56	6	21	9	6	14	0
BULLITT	21	0	2	0	17	2	0
BUTLER	13	2	0	2	6	3	0
CALDWELL							
(+UKREC)	30	7	1	3	16	3	0
CALLOWAY	14	1	7	1	4	1	0
CAMPBELL	14	0	0	1	7	4	2
CARLISLE	12	2	0	3	6	1	0
CARROLL	3	0	0	0	0	3	0
CARTER	7	0	2	1	3	1	0
CASEY	33	1	2	2	11	17	0
CHRISTIAN	103	18	15	6	35	29	0
CLARK	24	1	1	0	11	4	7
CLAY	6	0	1	3	0	2	0
CLINTON	16	6	2	2	3	3	0
CRITTENDEN	18	0	0	3	10	4	1
CUMBERLAND	4	0	0	1	3	0	0
DAVISS	98	3	7	6	55	24	3
EDMONSON	1	1	0	0	0	0	0
ELLIOTT	6	0	0	1	1	4	0
ESTILL	2	0	0	0	2	0	0
FAYETTE							
(+LEX.							
CAMPUS)	322	14	13	12	243	20	20
FLEMING	15	2	3	0	7	3	0
FLOYD	2	0	0	0	1	1	0
FRANKLIN	27	2	1	0	15	8	1
FULTON	2	0	0	0	2	0	0
GALLATIN	4	0	0	1	3	0	0
GARRARD	8	0	2	0	1	2	3
GRANT	5	0	0	1	2	2	0
GRAVES	33	1	8	5	8	11	0
GRAYSON	19	4	5	1	1	7	1
GREEN	6	1	2	0	1	2	0
GREENUP	5	0	0	0	2	3	0
HANCOCK	16	1	6	2	7	0	0
HARDIN	5	3	0	0	0	1	1
HARLAN	10	0	0	0	7	3	0
HARRISON	17	3	6	1	5	1	1
HART	13	1	2	0	8	2	0
HENDERSON	18	1	2	6	9	0	0
HENRY	12	1	2	1	4	4	0
HICKMAN	3	0	0	2	1	0	0
HOPKINS	31	6	2	3	14	2	4
JACKSON	13	0	0	2	5	0	6
JEFFERSON	28	0	0	0	23	2	3
JESSAMINE	11	0	2	0	8	1	0

COUNTY	TOTAL	AGRONOMIC <sup>b</sup>	TOBACCO	FRUIT	ORNAMENTAL	VEGETABLE	OTHER
JOHNSON	1	0	0	0	1	0	0
KENTON	8	1	0	3	3	1	0
KNOTT	2	0	0	1	1	0	0
KNOX	14	0	0	0	4	10	0
LARUE	8	0	2	1	2	3	0
LAUREL	17	1	0	2	8	6	0
LAWRENCE	2	0	0	0	1	1	0
LEE	5	0	0	0	0	5	0
LESLIE	0	0	0	0	0	0	0
LETCHER	10	0	0	3	3	4	0
LEWIS	11	0	1	1	5	4	0
LINCOLN	18	3	2	1	5	7	0
LIVINGSTON	4	0	0	1	2	1	0
LOGAN	29	0	11	6	8	3	1
LYON	17	5	1	2	3	4	2
McCRACKEN	46	1	0	4	26	14	1
McCREARY	1	0	0	0	1	0	0
McLEAN	17	7	4	1	5	0	0
MADISON	21	0	3	1	10	7	0
MAGOFFIN	9	0	0	1	5	1	2
MARION	15	2	1	2	9	1	0
MARSHALL	27	0	0	5	14	8	0
MARTIN	0	0	0	0	0	0	0
MASON	13	2	1	0	8	2	0
MEADE	27	1	1	1	12	7	5
MENIFEE	12	0	0	5	4	3	0
MERCER	12	0	0	1	9	2	0
METCALFE	29	0	2	13	13	1	0
MONROE	2	0	0	2	0	0	0
MONTGOMERY	18	2	1	0	11	4	0
MORGAN	8	0	0	0	6	2	0
MUHLENBERG	28	1	2	1	8	16	0
NELSON	20	0	0	2	16	2	0
NICHOLAS	14	2	3	4	4	1	0
OHIO	2	2	0	0	0	0	0
OLDHAM	26	7	0	6	9	3	1
OWEN	9	1	0	2	6	0	0
OWSLEY	4	0	0	1	2	1	0
PENDELTON	1	0	0	0	0	1	0
PERRY	5	0	0	0	5	0	0
PIKE	10	0	0	0	9	1	0
POWELL	0	0	0	0	0	0	0
PULASKI	24	4	3	2	12	1	2
ROBERTSON	1	0	0	1	0	0	0
ROCKCASTLE	0	0	0	0	0	0	0
ROWAN	8	1	0	1	4	2	0
RUSSELL	27	4	0	2	12	7	2
SCOTT	21	0	1	2	18	0	0
SHELBY	18	2	1	1	10	2	2
SIMPSON	14	0	4	2	4	4	0
SPENCER	5	1	0	0	4	0	0
TAYLOR	19	2	0	4	11	0	2
TODD	57	3	21	3	18	12	0
TRIGG	35	3	6	1	14	8	3
TRIMBLE	2	0	0	0	0	2	0
UNION	17	1	0	2	12	2	0

COUNTY	TOTAL	AGRONOMIC <sup>b</sup>	TOBACCO	FRUIT	ORNAMENTAL	VEGETABLE	OTHER
WARREN	44	0	2	7	31	2	2
WASHINGTON	3	0	0	0	3	0	0
WAYNE	8	0	2	0	4	2	0
WEBSTER	23	1	0	9	12	1	0
WHITLEY	14	0	0	1	4	8	1
WOLFE	2	0	0	1	1	0	0
WOODFORD	30	2	2	2	23	1	0
OUT-OF-STATE	4	0	1	0	3	0	0
<b>TOTALS</b>	<b>2218</b>	<b>170</b>	<b>205</b>	<b>215</b>	<b>1108</b>	<b>432</b>	<b>88</b>

<sup>a</sup>Excludes PWNE, SCN-N, and SOD samples collected by nursery inspectors.

<sup>b</sup>Agonomic crops include corn, soybeans, forages, and small grains.

**Table 9. NUMBER OF PRIMARY DIAGNOSES AND CONSULTATIONS MADE BY UK EXTENSION SPECIALISTS, DIAGNOSTICIANS AND RESEARCHERS**

Specialists, Researchers, Diagnosticians	Department	Primary Diagnosis <sup>a</sup>	Consultations <sup>b</sup>
Bailey, WA	Plant & Soil Sciences	20	21
Beale, JW (Diagnostician)	Plant Pathology	1041	42
Becker, DW	Horticulture	5	3
Berberich, SG	Horticulture	0	6
Bessin, RT	Entomology	11	18
Bradley, CA	Plant Pathology	1	10
Dunwell, WC	Horticulture	36	11
Dutton, SR	Horticulture	0	1
Fountain, WM	Horticulture	1	8
Gaskill, C	Veterinary Diagnostic Lab	0	1
Gauthier, NW	Plant Pathology	1	10
Grable, C	Horticulture	0	1
Green, JD	Plant & Soil Sciences	11	19
Hershman, DE	Plant Pathology	1	5
Johnson, DW	Entomology	1	2
Kennedy, BS (Diagnostician)	Plant Pathology	675	90
Knott, CA	Plant & Soil Sciences	2	4
Lee, CD	Plant & Soil Sciences	4	4
Long, SJ (Diagnostic Assistant)	Plant Pathology	455	1
Martin, JR	Plant & Soil Sciences	21	12
Munshaw, GC	Plant & Soil Sciences	4	1
Murdock, LW	Plant & Soil Sciences	6	1
Pearce, RC	Plant & Soil Sciences	15	4
Pfeufer, EE	Plant Pathology	3	20
Philips, TD	Plant & Soil Sciences	1	0
Ritchey, EL	Plant & Soil Sciences	12	0
Saha, SK	Horticulture	5	7
Smith, SR	Plant & Soil Sciences	0	2
Strang, JG	Horticulture	2	4
Townsend, LH	Entomology	31	31
Vincelli, P	Plant Pathology	2	10
Wilson, P	Horticulture	1	0
Wurts, WA	KSU-Aquaculture	0	1
Wright, S	Horticulture	2	1

<sup>a</sup>Specialist or diagnostician making the primary diagnosis.

<sup>b</sup>In some cases more than one person was consulted, however only one name can be entered into the computer database. Therefore, these numbers may indicated fewer consultations than were actually performed.

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
<b>AGRONOMIC CROPS</b>					
CORN	BROWN SPOT	PHYSODERMA	0	1	1
	CHEMICAL	STEADFAST	1		1
	CHEMICAL	UNKNOWN	1		1
	CULTURAL	IMPROPER DEPTH	0	4	4
	CULTURAL	POOR STAND	1		1
	EAR/KERNEL ROT	FUSARIUM	1		1
	EAR/KERNEL ROT	GIBBERELLA	1		1
	EAR/KERNEL ROT	STENOCARPELLA	3		3
	ENVIRONMENTAL	COMPACTION	5	1	6
	ENVIRONMENTAL	POOR POLLINATION	0	1	1
	ENVIRONMENTAL	STRESSES	2		2
	ENVIRONMENTAL	WET FEET	0	1	1
	GRAY LEAF SPOT	CERCOSPORA	7	3	10
	INAD	INAD	1		1
	INSECT	STINKBUG	1		1
	INSECT	WIREWORM	1		1
	KERNEL ROT	YEAST	1		1
	ND	ND	4		4
	NO.LEAF BLIGHT	SETOPHAERIA	0	2	2
	NUTRITIONAL	K.DEFICIENCY	1		1
	NUTRITIONAL	MG.DEFICIENCY	1		1
	NUTRITIONAL	PH HIGH	2		2
	NUTRITIONAL	TEMP.K	2		2
	NUTRITIONAL	UNKNOWN	1		1
	NUTRITIONAL	ZN.DEFICIENCY	4		4
	ROOT ROT	FUSARIUM	0	1	1
	RUST	PUCCINIA	1		1
	RUST/SOUTHERN	PUCCINIA	5		5
	SEED DECAY	FUSARIUM	1		1
	STALK ROT	GIBBERELLA	1		1
	STEWART'S WILT	ERWINIA	0	1	1
	ALFALFA	BACT.SPOT	XANTHOMONAS	1	
CHEMICAL		UNKNOWN	1		1
CROWN ROT		FUSARIUM	1		1
CROWN ROT		RHIZOCTONIA	1		1
CULTURAL		WET FEET	0	3	3
DAMPING OFF		PYTHIUM	1		1
INAD		INAD	1		1
LEAF SPOT		LEPTOSPHAERULINA	1		1
NUTRITIONAL		LOW FERTILITY	0	1	1
NUTRITIONAL		N.DEFICIENCY	1		1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	NUTRITIONAL	POOR NODULATION	1		1
	SPRING BLK. STEM	PHOMA	1		1
	STEM CANKER	RHIZOCTONIA	1		1
	SUMMER BLK. STEM	CERCOSPORA	2	1	3
	ANTHRACNOSE	COLLETOTRICHUM	1		1
	RUST	PUCCINIA	1		1
CLOVER	ND	ND	1		1
CRABGRASS	NUTRITIONAL	N.DEFICIENCY	1		1
ORCHARDGRASS	ANTHRACNOSE	COLLETOTRICHUM	2	1	3
	BROWN STRIPE	CERCOSPORIDIUM	2	1	3
	ENVIRONMENTAL	COMPACTION	1		1
	RUST	PUCCINIA	1		1
PER. RYEGRASS	ANTHRACNOSE	COLLETOTRICHUM	0	1	1
	RUST	PUCCINIA	2		2
SWITCHGRASS	NUTRITIONAL	SOLUBLE SALTS	1		1
SOYBEAN	ANTHRACNOSE	COLLETOTRICHUM	0	4	4
	BROWN SPOT	SEPTORIA	0	1	1
	CHARCOAL ROT	MACROPHOMINA	0	1	1
	CHEMICAL	CADET	0	1	1
	CHEMICAL	GROWTH REGULATOR	2		2
	CHEMICAL	HERBICIDE	2	1	3
	CHEMICAL	PPO INHIBITOR	1		1
	CHEMICAL	UNKNOWN	1		1
	CULTURAL	LOW TEMPERATURE	1		1
	DOWNY MILDEW	PERONOSPORA	2	2	4
	ENVIRONMENTAL	COMPACTION	9	2	11
	ENVIRONMENTAL	STRESSES	1		1
	ENVIRONMENTAL	UNKNOWN	3		3
	ENVIRONMENTAL	WET FEET	1		1
	FROGEYE	CERCOSPORA	8	4	12
	INAD	INAD	3		3
	INSECT	THRIPS	1		1
	LEAF BLIGHT	CERCOSPORA	1		1
	LEAF SPOT	PHYLLOSTICTA	1		1
	ND	ND	11		11
	NUTRITIONAL	ACID SOIL	1		1
	NUTRITIONAL	K.DEFICIENCY	4		4
	NUTRITIONAL	POOR NODULATION	4		4
	NUTRITIONAL	SOLUBLE SALTS	0	1	1
	PURPLE SEED STAI	CERCOSPORA	1		1
	ROOT/STEM ROT	PHYTOPHTHORA	5		5
	ROOT/STEM ROT	RHIZOCTONIA	0	1	1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	SCN	HETERODERA	0	1	1
	SEED DECAY	FUSARIUM	1		1
	SEED STAIN	CERCOSPORA	1		1
	STEM CANKER	DIAPORTHE	1		1
	SUDDEN DEATH	FUSARIUM	6		6
BARLEY	ENVIRONMENTAL	FREEZE INJURY	1		1
	ND	ND	1		1
CANOLA	WHITE MOLD	SCLEROTINIA	1		1
MILLET	GRAY LEAF SPOT	PYRICULARIA	1		1
OAT	VIRUS	BYDV	1		1
SORGHUM	CULTURAL	IMPROPER DEPTH	0	1	1
	ENVIRONMENTAL	COMPACTION	1		1
	ENVIRONMENTAL	DRIVING RAIN	1		1
	GRAY LEAF SPOT	CERCOSPORA	1		1
	INSECT	SUGARCANE APHID	1		1
	ND	ND	1		1
	ROUGH LEAF SPOT	ASCOCHYTA	1		1
WHEAT	CHEMICAL	GROWTH REGULATOR	1		1
	ENVIRONMENTAL	COMPACTION	2		2
	LEAF SPOT	SEPTORIA	4		4
	LEAF SPOT	STAGNOSPORA	0	1	1
	ND	ND	1		1
	SOOTY MOLD	CLADOSPORIUM	1		1
	TAN SPOT	DRECHSLERA	1	2	3
	VIRUS	SBWMV	1		1
	VIRUS	WSSMV	1		1
TOBACCO	ANG.LEAF SPOT	PSEUDOMONAS	4	2	6
	BACT.SOFT ROT	ERWINIA	0	1	1
	BLACK SHANK	PHYTOPHTHORA	36		36
	BLACKLEG	ERWINIA	3		3
	CHEMICAL	COMMAND	0	1	1
	CHEMICAL	FUNGICIDE	1		1
	CHEMICAL	GROWTH REGULATOR	8		8
	CHEMICAL	HERBICIDE	5		5
	CHEMICAL	SPARTAN	2	3	5
	CHEMICAL	SUCKER CONTROL	1		1
	CHEMICAL	TERRAMASTER	1		1
	CHEMICAL	UNKNOWN	2		2
	CULTURAL	HEAT INJURY	1		1
	CULTURAL	TRANSPLANT SHOCK	7	2	9
	DAMPING OFF	RHIZOCTONIA	2		2
	ENVIRONMENTAL	COLD INJURY	0	1	1



**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	ENVIRONMENTAL	DRIVING RAIN	1		1
	ENVIRONMENTAL	DROWNING	1		1
	ENVIRONMENTAL	HEAT INJURY	2		2
	ENVIRONMENTAL	LIGHTNING	1		1
	ENVIRONMENTAL	SCALD	0	1	1
	ENVIRONMENTAL	STRESSES	1		1
	ENVIRONMENTAL	SUNSCALD	1		1
	ENVIRONMENTAL	WET FEET	1		1
	FRENCHING	METABOLITES	4		4
	FROGEYE	CERCOSPORA	12	6	18
	HOLLOW STALK	ERWINIA	2		2
	INAD	INAD	3		3
	INSECT	BUDWORM	2		2
	INSECT	MOTH LARVAE	1		1
	LEAF SPOT	ENVIRONMENTAL	1		1
	LEAF SPOT	UNKNOWN	2	1	3
	ND	ND	21		21
	NUTRITIONAL	ACID SOIL	2		2
	NUTRITIONAL	B.DEFICIENCY	3		3
	NUTRITIONAL	CA.DEFICIENCY	1		1
	NUTRITIONAL	K.DEFICIENCY	2		2
	NUTRITIONAL	MN.TOXICITY	3	1	4
	NUTRITIONAL	P.DEFICIENCY	1		1
	NUTRITIONAL	SOLUBLE SALTS	0	1	1
	PHYSICAL INJURY	BUD LOSS	1		1
	PHYSICAL INJURY	UNKNOWN	1		1
	ROOT ROT	PYTHIUM	25	7	32
	ROOT ROT	RHIZOCTONIA	2	2	4
	ROOT/STEM ROT	PYTHIUM	2		2
	ROOT/STEM ROT	RHIZOCTONIA	1		1
	SOOTY MOLD	SP.	0	1	1
	SORE SHIN	RHIZOCTONIA	0	5	5
	STORAGE MOLD	CERCOSPORA	1		1
	STORAGE MOLD	PENICILLIM	0	1	1
	TARGET SPOT	RHIZOCTONIA	13	4	17
	VIRUS	AMV	1		1
	VIRUS	POTY	1		1
	VIRUS	PVY	1		1
	VIRUS	TMV	1		1
	VIRUS	TSV	2		2
	VIRUS	TSWV	5		5
	WILT	FUSARIUM	4		4

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	WX.FLECK	OZONE	3		3
<b>FRUIT CROPS: SMALL FRUIT</b>					
BLACK RASPBERRY	ENVIRONMENTAL	WINTER INJURY	1		1
BLACKBERRY	CANE BLIGHT	LEPTOSPHERIA	1	1	2
	CHEMICAL	HERBICIDE	1		1
	ENVIRONMENTAL	WINTER INJURY	4		4
	INSECT	CANE BORER	0	2	2
	INSECT	SPIDER MITE	1		1
	LEAF SPOT	CERCOSPORA	1		1
BLUEBERRY	CANKER	BOTRYOSPHERIA	4		4
	DIEBACK	PESTALOTIA	0	1	1
	ENVIRONMENTAL	COMPACTION	2		2
	ENVIRONMENTAL	WINTER INJURY	1		1
	FRUIT DECAY	PHYLLOSTICTA	1		1
	INAD	INAD	1		1
	INSECT	CRAN FRUITWORM	1		1
	ND	ND	4		4
	NUTRITIONAL	FE.DEFICIENCY	1		1
	NUTRITIONAL	N.DEFICIENCY	1		1
	NUTRITIONAL	PH HIGH	1	1	2
	ROOT ROT	PHYTOPHTHORA	5	1	6
	ROOT ROT	RHIZOCTONIA	1		1
	SCORCH	XYLELLA	1		1
	STEM BLIGHT	BOTRYOSPHERIA	1		1
	TWIG BLIGHT	PHOMOPSIS	1	1	2
GOOSEBERRY	THREAD BLIGHT	CORTICIUM	1		1
GRAPE	ANTHRACNOSE	ELSINOE	2	2	4
	BITTER ROT	MELANCONIUM	1		1
	BLACK ROT	GUIGNARDIA	12	1	13
	CHEMICAL	GROWTH REGULATOR	4	1	5
	CROWN GALL	AGROBACTERIUM	1		1
	CULTURAL	WET FEET	1		1
	DOWNY MILDEW	PLASMOPARA	2		2
	ENVIRONMENTAL	SCALD	0	2	2
	INSECT	JAPANESE BEETLE	1	1	2
	INSECT	PHYLLOXERA	2	1	3
	INSECT	STINK BUG	0	2	2
	LEAF BLIGHT	ISARIOPSIS	0	1	1
	ND	ND	2		2
HASKAP BERRY	CHEMICAL	GLYPHOSATE	1		1
	LEAF SPOT	CERCOSPORA	1		1
RASPBERRY	DIEBACK	UNKNOWN	1		1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	ENVIRONMENTAL	WINTER INJURY	2	1	3
	LEAF SPOT	SEPTORIA	1		1
	LEAF SPOT	SPHAERULINA	2		2
	ROOT ROT	PHYTOPHTHORA	6		6
	ROOT/CROWN ROT	PHYTOPHTHORA	2		2
STRAWBERRY	ANTHRACNOSE	COLLETOTRICHUM	3		3
	BACT.LEAF SPOT	XANTHOMONAS	3		3
	BLACK ROOT ROT	FUSARIUM	1	1	2
	BLACK ROOT ROT	RHIZOCTONIA	1		1
	FRUIT ROT	PHOMOPSIS	1		1
	LEAF BLIGHT	PHOMOPSIS	2		2
	LEAF SPOT	CERCOSPORA	1		1
	LEAF SPOT	MYCOSPHAERELLA	5		5
	ND	ND	2		2
	NUTRITIONAL	PH HIGH	0	1	1
<b>FRUIT CROPS: TREE FRUITS</b>					
APPLE	BITTER ROT	GLOMERELLA	4		4
	BLACK ROT	BOTRYOSPHAERIA	1		1
	BURR KNOT	UNKNOWN	1		1
	C/APPLE RUST	GYMNOSPORANGIUM	9	1	10
	COLLAR ROT	PHYTOPHTHORA	1		1
	CROWN GALL	AGROBACTERIUM	2		2
	ENVIRONMENTAL	HAIL INJURY	0	1	1
	ENVIRONMENTAL	STRESSES	0	1	1
	FIRE BLIGHT	ERWINIA	6		6
	FLYSPECK	SCHIZOTHYRIUM	0	2	2
	FROGEYE	BOTRYOSPHAERIA	1	2	3
	FRUIT ROT	PHOMA	0	1	1
	FRUIT ROT	UNKNOWN	1		1
	INAD	INAD	1		1
	INSECT	APHID	0	1	1
	INSECT	JAPANESE BEETLE	1		1
	INSECT	PLUM CURCULIO	3	1	4
	INSECT	SAN JOSE SCALE	1		1
	INSECT	STINKBUG	1		1
	ND	ND	2		2
	SCAB	VENTURIA	1		1
	SOOTY BLOTCH	GLOEODES	1	3	4
	THREAD BLIGHT	CORTICIUM	6		6
	WATER CORE	PHYSIOLOGICAL	1		1
	WHITE ROT	BOTRYOSPHAERIA	1		1
APRICOT	ND	ND	2		2

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
CHERRY	BACT.CANKER	PSEUDOMONAS	2		2
	BACT.SPOT	XANTHOMONAS	1		1
	CANKER	LEUCOSTOMA	1		1
	ENVIRONMENTAL	FREEZE INJURY	1		1
	ENVIRONMENTAL	STRESSES	1		1
	ENVIRONMENTAL	WINTER INJURY	0	1	1
	INSECT	CICADA	0	1	1
	LEAF SPOT	BLUMERIELLA	1		1
	LEAF SPOT	FUNGAL	1		1
	ROOT ROT	PHYTOPHTHORA	1		1
	THREAD BLIGHT	CORTICIUM	1		1
FIG	LEAF SPOT	CERCOSPORA	1		1
HAZELNUT	KERNEL DECAY	UNKNOWN	1		1
NECTARINE	CULTURAL	TRANSPLANT SHOCK	1		1
	GUMMOSIS	UNKNOWN	1		1
	INSECT	PEACHTREE BORER	1		1
	LEAF CURL	TAPHRINA	1		1
PEACH	BACT.CANKER	PSEUDOMONAS	1		1
	BROWN ROT	MONILINIA	2		2
	CROWN GALL	AGROBACTERIUM	1		1
	CULTURAL	TRANSPLANT SHOCK	1		1
	ENVIRONMENTAL	WET FEET	0	1	1
	ENVIRONMENTAL	WINTER INJURY	2		2
	INSECT	BORER	1		1
	INSECT	CATERPILLAR	1		1
	INSECT	ORIENTAL FM	1		1
	INSECT	PLUM CURCULIO	1		1
	INSECT	SAWFLY	0	1	1
	INSECT	WHITE PEACH SCAL	1		1
	LEAF CURL	TAPHRINA	3		3
	ND	ND	5		5
	PEAR	CHEMICAL	GROWTH REGULATOR	1	
CHEMICAL		HERBICIDE	1		1
ENVIRONMENTAL		WINTER INJURY	1		1
FIRE BLIGHT		ERWINIA	3	1	4
INSECT		UNKNOWN	1		1
ND		ND	1		1
OVER RIPE		PHYSIOLOGICAL	1		1
PECAN	INSECT	PHYLLOXERA	4		4
	INSECT	SHUCKWORM	2		2
	INSECT	SPIDER MITE	1		1
	INSECT	STINKBUG	7		7

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<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	INSECT	UNKNOWN	1		1
	INSECT	WEEVIL	0	2	2
	LEAF SPOT	PESTALOTIA	1		1
	LEAF SPOT	PHOMOPSIS	1		1
	ND	ND	2		2
	SCAB	CLADOSPORIUM	2		2
	SOOTY MOLD	SP.	0	1	1
PLUM	ENVIRONMENTAL	WINTER INJURY	0	1	1
	INSECT	CICADA	1		1
	ND	ND	1		1
QUINCE	RUST	GYMNOSPORANGIUM	1		1
<b>HERBS</b>					
BASIL	DOWNY MILDEW	PERONOSPORA	2		2
GARLIC	CULTURAL	MOISTURE	1		1
	WHITE ROT	SCLEROTIUM	1		1
HOPS	INSECT	SPIDER MITE	1		1
	LEAF SPOT	FUNGAL	1		1
LAVENDER	CULTURAL	WET FEET	1	1	2
	ENVIRONMENTAL	WINTER INJURY	1		1
	ROOT ROT	PHYTOPHTHORA	5		5
	ROOT/STEM ROT	RHIZOCTONIA	2		2
PARSLEY	CROWN ROT	ERWINIA	1		1
SAGE	NUTRITIONAL	FERTILIZER BURN	0	1	1
	ROOT/STEM ROT	RHIZOCTONIA	1		1
	WILT	FUSARIUM	1		1
STEVIA	STEM ROT	BOTRYTIS	1		1
<b>IDENTIFICATIONS</b>					
FUNGAL ID	BASIDIOMYCETE	SP.	2		2
	CANTHARELLUS	SP.	1		1
	CLAVULINA	SP.	1		1
	COPRINUS	SP.	1		1
	CRATERELLUS	SP.	1		1
	FUSARIUM	SP.	1		1
	GANODERMA	APPLANATUM	1		1
	GANODERMA	LUCIDUM	1		1
	INAD	INAD	5		5
	INONOTUS	DRYADEUS	1		1
	IRPEX	LACTEUS	1		1
	LEPIOTA	NAUCINOIDES	1		1
	MERIPILUS	SUMSTINEI	1		1
	MOLD	SP.	1		1
	MORCHELLA	SP.	1		1

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<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	PANELLUS	SEROTINUS	1		1
	SLIME MOLD	PHYSARUM	1		1
	SLIME MOLD	SP.	2		2
	TRAMETES	VERSICOLOR	1		1
	TREMELLA	SP.	1		1
	TRICHODERMA	SP.	1		1
PLANT ID	AGROSTIS	SP.	1		1
	BRASSICACEAE	UNKNOWN	1		1
	FICUS	BENJAMINA	1		1
	LIGUSTRUM	VICARYI	1		1
	MICROSTEGIUM	VIMINEUM	1		1
	MUHLENBERGIA	SCHREBERI	1		1
	NOSTOC	COMMUNE	3		3
	POA	PRATENSIS	1		1
	POPULUS	ALBA	1		1
<b>MISCELLANEOUS</b>					
HEMP	BLIGHT	BOTRYTIS	1		1
	CHEMICAL	FUNGICIDE	1		1
	CULTURAL	DEEP PLANTING	1		1
	DISTORTION	UNKNOWN	1		1
	ENVIRONMENTAL	WET FEET	0	1	1
	GENETIC	CHIMERA	1		1
	MUTATION				
	INSECT	SPIDER MITE	2		2
	INSECT	STALK BORER	1		1
	LEAF SPOT	CERCOSPORA	1		1
	LEAF SPOT	UNKNOWN	6		6
	ND	ND	4		4
	ROOT ROT	PYTHIUM	5	2	7
	ROOT/STEM ROT	PYTHIUM	1		1
	STEM CANKER	BOTRYTIS	1		1
MULCH	ND	ND	1		1
NICOTIANA	NUTRITIONAL	P.DEFICIENCY	1		1
	VIRUS	INSV	1		1
RAPESEED	BLACK ROT	XANTHOMONAS	1		1
SOIL	ND	ND	1		1
<b>ORNAMENTALS: HERBACEOUS</b>					
ANEMONE	FOLIAR NEMA	APHELENCHOIDES	1		1
ASTER	NUTRITIONAL	FE.DEFICIENCY	1		1
	ROOT ROT	PYTHIUM	0	1	1
BEGONIA	BACT.SPOT	XANTHOMONAS	1	1	2
	CULTURAL	SUNSCALD	1		1
	ROOT ROT	PYTHIUM	1		1

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<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	ROOT/STEM ROT	RHIZOCTONIA	1		1
BLEEDING HEART	INSECT	UNKNOWN	1		1
CALIBRACHOA	BLIGHT	BOTRYTIS	2		2
	INSECT	FUNGUS GNAT	0	1	1
	INSECT	THRIPS	1		1
	NUTRITIONAL	LOW FERTILITY	0	1	1
	NUTRITIONAL	N.DEFICIENCY	1		1
	NUTRITIONAL	PH HIGH	1		1
CATHARANTHUS	BLIGHT	BOTRYTIS	1		1
	ROOT ROT	PYTHIUM	1	1	2
	WILT	PHYTOPHTHORA	1		1
CHRYSANTHEMUM	BACT.SPOT	PSEUDOMONAS	1		1
	CHEMICAL	UNKNOWN	1		1
	INSECT	LEAF MINER	0	1	1
	LEAF SPOT	ALTERNARIA	2		2
	LEAF SPOT	CERCOSPORA	1		1
	ND	ND	1		1
	NUTRITIONAL	FE.DEFICIENCY	0	1	1
	NUTRITIONAL	FERTILIZER BURN	1		1
	PHYSICAL INJURY	MECHANICAL	2		2
	PHYSICAL INJURY	RODENT	1		1
	ROOT ROT	PYTHIUM	8	2	10
	ROOT ROT	RHIZOCTONIA	1	1	2
	SCALD	UNKNOWN	1		1
	SLIME MOLD	SP.	1		1
	SO.BLIGHT	SCLEROTIUM	2		2
	WEB BLIGHT	RHIZOCTONIA	8	1	9
	WILT	FUSARIUM	10	1	11
COLEUS	ND	ND	1		1
COLUMBINE	INSECT	LEAF MINER	1		1
DAHLIA	INSECT	SPIDER MITE	1		1
DAISY	INSECT	LACEBUG	1		1
	ROOT ROT	RHIZOCTONIA	0	1	1
	ROOT/STEM ROT	PYTHIUM	1		1
DAYLILY	INSECT	APHID	1		1
	INSECT	THRIPS	1		1
	LEAF SPOT	PHOMOPSIS	0	1	1
FERN	BACT.SPOT	UNKNOWN	1		1
	CHEMICAL	UNKNOWN	1		1
	LEAF SPOT	PHYLLOSTICTA	1		1
	ND	ND	3		3
	NUTRITIONAL	SOLUBLE SALT	0	1	1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	ROOT ROT	PYTHIUM	1		1
FUCHSIA	LEAF SPOT	FUNGAL	1		1
	ND	ND	1		1
GERANIUM	GHOST SPOT	BOTRYTIS	1		1
	NUTRITIONAL	ACID SOIL	0	2	2
	NUTRITIONAL	FE.TOXICITY	2		2
	ROOT ROT	PYTHIUM	1		1
GERBERA	ND	ND	1		1
	ROOT ROT	PYTHIUM	1		1
GINGER	ROOT/STEM ROT	RHIZOCTONIA	1		1
GOLDENROD	ND	ND	1		1
HAIRY MINT	ROOT/STEM ROT	RHIZOCTONIA	1		1
HELLEBORE	VIRUS	HeNNV	1		1
HOLLYHOCK	INSECT	JAPANESE BEETLE	0	1	1
	RUST	PUCCINIA	4		4
HOSTA	INSECT	APHID	3		3
IMPATIENS	INSECT	CYCLAMEN MITE	1		1
	ROOT ROT	PYTHIUM	1		1
IRIS	BACT.SOFT ROT	ERWINIA	1		1
	LEAF SPOT	MYCOSPHAERELLA	1		1
	ND	ND	1		1
IVY	ENVIRONMENTAL	WINTER INJURY	1		1
	ROOT/STEM ROT	PYTHIUM	0	1	1
	ROOT/STEM ROT	RHIZOCTONIA	1		1
LAMIUM	INSECT	UNKNOWN	1		1
LARKSPUR	INSECT	PLANT BUG	1		1
LIRIOPE	ANTHRACNOSE	COLLETOTRICHUM	0	1	1
	NUTRITIONAL	PH HIGH	1		1
LISIANTHUS	ND	ND	1		1
LOBELIA	STEM ROT	SCLEROTINIA	1		1
LUPINE	ANTHRACNOSE	UNKNOWN	1		1
	ROOT ROT	PYTHIUM	0	1	1
MANDEVILLA	CHEMICAL	GROWTH REGULATOR	1		1
	LEAF SPOT	COLLETOTRICHUM	1		1
MARIGOLD	ROOT ROT	PYTHIUM	1		1
PACHYSANDRA	INSECT	SCALE	1		1
	LEAF/STEM BLIGHT	VOLUTELLA	3		3
PANSY	ROOT ROT	PYTHIUM	1		1
PEONY	BACTERIAL BLIGHT	UNKNOWN	5		5
	BLIGHT	BOTRYTIS	0	1	1
	BUD BLAST	ENVIRONMENTAL	1		1
	CHEMICAL	GROWTH REGULATOR	1		1



**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	LEAF BLOTCH	CLADOSPORIUM	0	1	1
	ND	ND	3		3
	NUTRITIONAL	UNKNOWN	1		1
	POWDERY MILDEW	ERYSIPHE	3		3
	STEM ROT	SCLEROTINIA	1		1
PETUNIA	BLACK ROOT ROT	THIELAVIOPSIS	1		1
	BLIGHT	BOTRYTIS	2	1	3
	CULTURAL	LOW LIGHT	0	1	1
	ENVIRONMENTAL	COLD INJURY	1		1
	GRAY MOLD	BOTRYTIS	1		1
	INAD	INAD	1		1
	INSECT	FUNGUS GNAT	1		1
	NUTRITIONAL	LOW FERTILITY	1		1
	NUTRITIONAL	UNKNOWN	1	2	3
	POWDERY MILDEW	SP.	0	1	1
	ROOT ROT	PYTHIUM	3	2	5
	ROOT ROT	RHIZOCTONIA	0	2	2
	ROOT/STEM ROT	PYTHIUM	0	1	1
	ROOT/STEM ROT	RHIZOCTONIA	1		1
	STEM ROT	SCLEROTINIA	2		2
PHLOX	POWDERY MILDEW	ERYSIPHE	1		1
POINSETTIA	NUTRITIONAL	PH HIGH	1		1
	VIRUS	PNMV	0	1	1
PULMONARIA	NUTRITIONAL	SOLUBLE SALT	1		1
SEDUM	ROOT/STEM ROT	RHIZOCTONIA	1		1
SLENDER MT MINT	INAD	INAD	1		1
SPURGE	ROOT ROT	RHIZOCTONIA	1		1
SUNFLOWER	SOFT ROT	ERWINIA	1		1
SWAMP MILKWEED	INSECT	APHID	0	1	1
	STEM ROT	RHIZOCTONIA	1		1
SWEETPEA	ROOT ROT	PYTHIUM	1		1
	ROOT ROT	RHIZOCTONIA	0	1	1
VERBENA	CULTURAL	SCORCH	1		1
VINCA	CANKER/DIEBACK	PHOMA	1		1
ZINNIA	BACT.LEAF SPOT	XANTHOMONAS	2		2
	CULTURAL	HEAT INJURY	1		1
	POWDERY MILDEW	OIDIUM	1		1
	ROOT ROT	PYTHIUM	1	1	2
	ROOT/STEM ROT	RHIZOCTONIA	0	1	1
<b>ORNAMENTALS: INDOOR PLANTS</b>					
AGLAONEMA	LEAF SPOT	PHOMOPSIS	1		1
ANTHURIUM	ANTHRACNOSE	COLLETOTRICHUM	0	1	1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	ENVIRONMENTAL	SUNSCALD	1		1
AVOCADO	ND	ND	1		1
FIG	LEAF SPOT	PHOMOPSIS	1		1
HIBISCUS	INSECT	WHITEFLY	1		1
LUCKY BAMBOO	LEAF SPOT	ALGAE	1		1
MEDINILLA	ROOT ROT	PYTHIUM	0	1	1
	ROOT ROT	RHIZOCTONIA	1		1
PALM	NUTRITIONAL	F.TOXICITY	1		1
PEPPEROMIA	CULTURAL	OVERWATERING	1		1
	ROOT ROT	PYTHIUM	1		1
PLUMERIA	SCALD	ENVIRONMENT	1		1
<b>ORNAMENTALS: TURFGRASS</b>					
BENTGRASS	ANTHRACNOSE	COLLETOTRICHUM	4		4
	BLIGHT	PYTHIUM	1	1	2
	COPPER SPOT	GLOEOCERCOSPORA	2		2
	CULTURAL	THATCH LAYER	1	1	2
	CULTURAL	WET FEET	1		1
	DOLLAR SPOT	SCLEROTINIA	3		3
	ENVIRONMENTAL	STRESSES	2		2
	INAD	INAD	5		5
	LEAF BLIGHT	CURVULARIA	0	1	1
	ND	ND	2		2
	PINK SNOW MOLD	MICRODOCHIUM	1		1
	ROOT PROBLEM	UNKNOWN	3		3
	ROOT ROT	PYTHIUM	3	3	6
	SOUTHERN BLIGHT	SCLEROTIUM	1		1
	TAKE-ALL PATCH	GAEUMANNOMYCES	5	1	6
	YELLOW PATCH	RHIZOCTONIA	1		1
BERMUDAGRASS	CULTURAL	WET FEET	0	1	1
	NUTRITIONAL	ACID SOIL	1		1
	ROOT ROT	COMPLEX	1		1
BLUEGRASS	CROWN DECAY	GAEUMANNOMYCES	0	1	1
	CULTURAL	HEAVY THATCH	1		1
	DOLLAR SPOT	SCLEROTINIA	1		1
	ROOT ROT	PYTHIUM	1		1
	SUMMER PATCH	MAGNAPORTHE	1		1
CRABGRASS	INAD	INAD	1		1
FESCUE	ANTHRACNOSE	COLLETOTRICHUM	4	1	5
	BROWN PATCH	RHIZOCTONIA	10	3	13
	ENVIRONMENTAL	COMPACTION	2		2
	ENVIRONMENTAL	STRESSES	4		4
	FADING OUT	CURVULARIA	0	1	1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	INAD	INAD	3		3
	LEAF SPOT	ASCOCHYTA	2		2
	LEAF SPOT	CERCOSPORA	0	1	1
	LEAF SPOT	CURVULARIA	1		1
	ND	ND	2		2
	RED THREAD	LAETISARIA	4	1	5
	ROOT ROT	FUNGAL	0	1	1
	SNOW MOLD	COPRINUS	1		1
RYEGRASS	BROWN PATCH	RHIZOCTONIA	1		1
TURFGRASS	BROWN PATCH	RHIZOCTONIA	1		1
	CHEMICAL	HERBICIDE	1		1
	INAD	INAD	1		1
	INSECT	GRUB	1		1
	ND	ND	2		2
	NUTRITIONAL	N.DEFICIENCY	1		1
<b>ORNAMENTALS: WOODY</b>					
ALMOND	BACT.SPOT	XANTHOMONAS	1		1
ARBORVITAE	BLIGHT	BOTRYTIS	1		1
	CANKER	BOTRYOSPHAERIA	1		1
	CANKER	DIAPORTHE	1		1
	CANKER	SEIRIDIUM	2		2
	CHEMICAL	UNKNOWN	1		1
	CULTURAL	TRANSPLANT SHOCK	1		1
	ENVIRONMENTAL	STRESSES	1		1
	ENVIRONMENTAL	WINTER DRYING	3	1	4
	ENVIRONMENTAL	WINTER INJURY	3	1	4
	INSECT	JUNIPER SCALE		1	1
	INSECT	LEAF MINER	1		1
	INSECT	SPIDER MITE	9	1	10
	LEAF SCORCH	ENVIRONMENTAL	1		1
	ND	ND	5		5
	PHYSICAL INJURY	MECHANICAL	1		1
	PHYSICAL INJURY	UNKNOWN	1		1
	ROOT PROBLEM	UNKNOWN	1		1
	TWIG BLIGHT	PESTALOTIOPSIS	0	1	1
ASH	ANTHRACNOSE	APIOGNOMONIA	2		2
	CANKER	UNKNOWN	1		1
	CHEMICAL	HERBICIDE	1		1
	LICHEN	SP.	0	1	1
	ND	ND	2		2
	ROOT ROT	ARMILLARIA	1		1
	WOOD DECAY	BASIDIOMYCETE	1		1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
AZALEA	ENVIRONMENTAL	STRESSES	1		1
	ENVIRONMENTAL	WINTER INJURY	2		2
	INSECT	LACEBUG	3	1	4
	INSECT	MEALYBUG	1		1
	LEAF/FLOWER GALL	EXOBASIDIUM	5		5
	LICHEN	SP.	0	1	1
	NUTRITIONAL	ACID SOIL	1		1
	NUTRITIONAL	LOW FERTILITY	0	1	1
BALD CYPRESS	INSECT	TWIG GALL MIDGE	1		1
BEECH	ANTHRACNOSE	DISCULA	1		1
	BLEEDING CANCKER	PHYTOPHTHORA	1		1
	ND	ND	2		2
BIRCH	LEAF SPOT	SEPTORIA	2		2
	ND	ND	1		1
BLACK GUM	CULTURAL	TRANSPLANT SHOCK	1		1
	CULTURAL	WET FEET	0	1	1
	ENVIRONMENTAL	FREEZE INJURY	2		2
BOXWOOD	BLIGHT	CALONECTRIA	2		2
	CANKER	PSEUDONECTRIA	25	13	38
	CHEMICAL	DEICING SALTS	1		1
	CHEMICAL	HERBICIDE	1		1
	CULTURAL	TRANSPLANT SHOCK	1		1
	ENVIRONMENTAL	FREEZE INJURY	1		1
	ENVIRONMENTAL	WINTER DRYING	9		9
	ENVIRONMENTAL	WINTER INJURY	10	2	12
	INSECT	LEAF MINER	3	5	8
	INSECT	SPIDER MITE	3	2	5
	INSECT	THRIPS	1		1
	LEAF/TWIG BLIGHT	MACROPHOMA	0	14	14
	ND	ND	3		3
	PHYSICAL INJURY	MECHANICAL	1		1
BUCKEYE	INSECT	BEETLE	0	1	1
	LEAF BLOTCH	GUIGNARDIA	1		1
BUTTERFLY BUSH	ENVIRONMENTAL	WINTER INJURY	1		1
	INSECT	PLANT BUG	1		1
	INSECT	SPIDER MITE	0	1	1
	INSECT	THRIPS	1		1
	ND	ND	1		1
CEDAR	ENVIRONMENTAL	WINTER INJURY	1		1
	INAD	INAD	1		1
	ND	ND	1		1
CHAMAECYPARIS	INSECT	SPIDER MITE	1		1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	INSECT	UNKNOWN	1		1
	ND	ND	2		2
CHERRY	BACT.SPOT	UNKNOWN	1		1
	BACT.SPOT	XANTHOMONAS	2		2
	CANKER	BOTRYOSPHAERIA	1		1
	CANKER	CYTOSPORA	3		3
	CANKER	FUNGAL	1		1
	CHEMICAL	UNKNOWN	1	1	2
	ENVIRONMENTAL	FREEZE INJURY	2	1	3
	ENVIRONMENTAL	STRESSES	0	2	2
	ENVIRONMENTAL	WINTER INJURY	3	2	5
	FIRE BLIGHT	ERWINIA	2		2
	INSECT	CHEWING	0	1	1
	INSECT	JAPANESE BEETLE	1		1
	INSECT	SAN JOSE SCALE	1		1
	LEAF SPOT	BLUMERIELLA	1		1
	LEAF SPOT	CERCOSPORA	2		2
	LEAF SPOT	FUNGAL	1	1	2
	ND	ND	1		1
	PHYSICAL INJURY	PRUNING	1		1
	WOOD DECAY	IRPEX	1		1
CHERRYLAUREL	ANTHRACNOSE	COLLETOTRICHUM	1		1
	BACT.SPOT	XANTHOMONAS	1		1
	CANKER	BOTRYOSPHAERIA	1		1
	ENVIRONMENTAL	WINTER INJURY	0	1	1
	INSECT	BARK BEETLE	0	1	1
	SHOT HOLE	FUNGAL	1		1
CHESTNUT	BLIGHT	CRYPHONECTRIA	1		1
	CULTURAL	TRANSPLANT SHOCK	1		1
	ENVIRONMENTAL	DROUGHT	1		1
	ND	ND	2		2
CRABAPPLE	SCAB	VENTURIA	2		2
	THREAD BLIGHT	CORTICIUM	1		1
CRAPEMYRTLE	ENVIRONMENTAL	WINTER INJURY	1		1
CRYPTOMERIA	ENVIRONMENTAL	STRESSES	1		1
	ENVIRONMENTAL	WINTER INJURY	1		1
DAWN REDWOOD	CHEMICAL	GROWTH REGULATOR	1		1
	INSECT	JAPANESE BEETLE	1		1
DOGWOOD	ANTHRACNOSE	DISCULA	10	1	11
	CHEMICAL	HERBICIDE	1		1
	CHEMICAL	UNKNOWN	2		2
	CULTURAL	TRANSPLANT SHOCK	1	1	2

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	ENVIRONMENTAL	STRESSES	5	1	6
	LEAF SPOT	CERCOSPORA	0	1	1
	LEAF SPOT	FUNGAL	1		1
	LICHEN	SP.	1		1
	ND	ND	4		4
	NUTRITIONAL	FE.DEFICIENCY	1		1
	POWDERY MILDEW	ERYSIPHE	8	9	17
	SLIME FLUX	YEAST	1		1
	SPOT	ELSINOE	3	1	4
	ANTHRACNOSE				
DOUGLASFIR	SWISS NEEDLECAST	PHAEOCRYPOTOPUS	1		1
ELM	ANTHRACNOSE	ASTEROMA	3		3
	CANKER	TUBERCULARIA	1		1
	ELM YELLOWS	PHYTOPLASMA	1		1
	INSECT	BEETLE	0	2	2
	INSECT	CICADA	1		1
	ND	ND	5		5
EUONYMUS	CANKER	PHOMOPSIS	1		1
	CULTURAL	TRANSPLANT SHOCK	1		1
	ENVIRONMENTAL	WINTER DRYING	2		2
	ENVIRONMENTAL	WINTER INJURY	1		1
	INSECT	EUONYMUS SCALE	2	2	4
	INSECT	SPIDER MITE	2		2
	ND	ND	3		3
	NUTRITIONAL	FE.DEFICIENCY	1		1
	WILT	VERTICILLIUM	1		1
FILBERT	BLIGHT	ANISOGRAMMA	1		1
FIR	CULTURAL	TRANSPLANT SHOCK	1		1
	ND	ND	1		1
FORSYTHIA	CHEMICAL	GROWTH REGULATOR	1		1
	GALL	PHOMOPSIS	1		1
	ND	ND	1		1
FRINGE TREE	ND	ND	1		1
GINKGO	CHEMICAL	GROWTH REGULATOR	1		1
	DISTORTION	UNKNOWN	1		1
GOLDENRAIN TREE	CHEMICAL	ROUNDUP	1		1
HACKBERRY	INSECT	LEAF GALL	1		1
	INSECT	LEAF MINER	1		1
	INSECT	PETIOLE GALL	0	1	1
	ND	ND	1		1
HAWTHORN	C/QUINCE RUST	GYMNOSPORANGIUM	2	1	3
	INSECT	LEAF MINER	1		1
	ND	ND	1		1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>	
HEMLOCK	CULTURAL	TRANSPLANT SHOCK	1		1	
	ENVIRONMENTAL	STRESSES	2		2	
	INSECT	SCALE	1		1	
	ND	ND	3		3	
	NEEDLE DECAY	UNKNOWN	1		1	
HICKORY	INSECT	PHYLLOXERA	1		1	
HOLLY	ANTHRACNOSE	GLOMERELLA	1		1	
	BLACK ROOT ROT	THIELAVIOPSIS	7		7	
	CANKER	BOTRYOSPHAERIA	2		2	
	CANKER	FUSARIUM	1		1	
	CULTURAL	GIRDLING ROOT	1		1	
	CULTURAL	TRANSPLANT SHOCK	0	1	1	
	ENVIRONMENTAL	WET FEET	1		1	
	ENVIRONMENTAL	WINTER DRYING	7	3	10	
	ENVIRONMENTAL	WINTER INJURY	15		15	
	INSECT	EUONYMUS SCALE	0	2	2	
	INSECT	SPIDER MITE	4		4	
	LEAF SPOT	FUNGAL	1	1	2	
	ND	ND	6		6	
	NUTRITIONAL	FE.DEFICIENCY	1		1	
SOOTY MOLD	SP.	1		1		
HONEYLOCUST	LEAF SPOT	CERCOSPORA	1		1	
HORNBEAM	INSECT	SCALE	1		1	
HORSECHESNUT	LEAF BLOTCH	GUIGNARDIA	1		1	
HYDRANGEA	ANTHRACNOSE	COLLETOTRICHUM	1	1	2	
	BACT.SPOT	XANTHOMONAS	1		1	
	CHEMICAL	HERBICIDE	2		2	
	CULTURAL	TRANSPLANT SHOCK	1		1	
	LEAF SCORCH	ENVIRONMENTAL	1		1	
	LEAF SPOT	CERCOSPORA	6		6	
	LEAF SPOT	PHOMA	1		1	
	ND	ND	2		2	
	NUTRITIONAL	P.DEFICIENCY	1		1	
	ROOT ROT	PYTHIUM	1		1	
	ROOT ROT	RHIZOCTONIA	0	1	1	
	WEB BLIGHT	RHIZOCTONIA	1		1	
	JUNIPER	CANKER	BOTRYOSPHAERIA	2		2
		CANKER	CYTOSPORA	1		1
CULTURAL		TRANSPLANT SHOCK	3		3	
ENVIRONMENTAL		WINTER DRYING	1		1	
INAD		INAD	1		1	
INSECT		JUNIPER SCALE	0	1	1	

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	INSECT	SPIDER MITE	1		1
	ND	ND	4		4
	PHYSICAL INJURY	SQUIRREL	1		1
LEYLAND CYPRESS	CANKER	BOTRYOSPHAERIA	1		1
	CANKER	SEIRIDIUM	5		5
	CULTURAL	TRANSPLANT SHOCK	1		1
	ENVIRONMENTAL	COMPACTION	1		1
	ENVIRONMENTAL	STRESSES	2		2
	ENVIRONMENTAL	WINTER DRYING	4		4
	ENVIRONMENTAL	WINTER INJURY	11	3	14
	INSECT	ARMORED SCALE	0	1	1
	INSECT	JUNIPER SCALE	0	3	3
	INSECT	SPIDER MITE	2		2
LILAC	ANTHRACNOSE	COLLETOTRICHUM	1		1
	ANTHRACNOSE	DISCULA	1		1
	BACT.SCORCH	XYLELLA	1		1
	CULTURAL	TRANSPLANT SHOCK	0	1	1
	INAD	INAD	1		1
	LEAF SPOT	PHYLLOSTICTA	1		1
	POWDERY MILDEW	ERYSIPHE	1		1
LOCUST	ND	ND	1		1
MAGNOLIA	CULTURAL	TRANSPLANT SHOCK	1		1
	ENVIRONMENTAL	WINTER DRYING	11		11
	INSECT	SCALE	1		1
	LEAF SPOT	CERCOSPORA	0	1	1
	LEAF SPOT	FUNGAL	1		1
	ND	ND	1		1
	POWDERY MILDEW	SP.	1		1
	SENESCENCE	NATURAL	1		1
MAPLE	ANTHRACNOSE	DISCULA	1		1
	ANTHRACNOSE	KABATIELLA	12		12
	BLEEDING CANKER	PHYTOPHTHORA	1		1
	CANKER	BOTRYOSPHAERIA	1		1
	CANKER	NECTRIA	2		2
	CHEMICAL	GROWTH REGULATOR	1		1
	CHEMICAL	HERBICIDE	1		1
	CHEMICAL	UNKNOWN	1		1
	CULTURAL	TRANSPLANT SHOCK	3		3
	ENVIRONMENTAL	DECLINE	1		1
	ENVIRONMENTAL	STRESSES	4	2	6
	INAD	INAD	1		1
	INSECT	BEETLE	1		1



**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	INSECT	BLADDER GALL	0	2	2
	INSECT	GLOOMY SCALE	1		1
	INSECT	JAPANESE BEETLE	0	1	1
	INSECT	LEAFHOPPER	1		1
	INSECT	OBSCURE SCALE	1		1
	INSECT	OYSTERSHELL SCAL	1		1
	INSECT	PETIOLE BORER	1		1
	INSECT	SAP FEEDER	0	1	1
	INSECT	SOFT SCALE	1		1
	LEAF BLIGHT	COLLETOTRICHUM	2		2
	LEAF SPOT	FUNGAL	3		3
	LEAF SPOT	MARSSONINA	1		1
	LEAF SPOT	PHYLLOSTICTA	5	4	9
	LICHEN	SP.	0	1	1
	ND	ND	12		12
	PHYSICAL INJURY	RUBBING	1		1
	PHYSICAL INJURY	SAPSUCKER	0	1	1
	TAR SPOT	RHYTISMA	3		3
	WILT	VERTICILLIUM	2		2
	WOOD DECAY	IRPEX	1	1	2
MIMOSA	WILT	FUSARIUM	1		1
NANDINA	ENVIRONMENTAL	WINTER INJURY	1		1
	NUTRITIONAL	ACID SOIL	1		1
	NUTRITIONAL	LOW FERTILITY	0	1	1
NINEBARK	POWDERY MILDEW	SPHAEROTHECA	2		2
OAK	ANTHRACNOSE	APIOGNOMONIA	4		4
	BACT.SCORCH	XYLELLA	29		29
	CANKER	PHOMOPSIS	1		1
	CHEMICAL	GROWTH REGULATOR	5		5
	CHEMICAL	HERBICIDE	2		2
	CHEMICAL	UNKNOWN	1		1
	CULTURAL	WET FEET	1		1
	ENVIRONMENTAL	STRESSES	3	3	6
	ENVIRONMENTAL	UNKNOWN	1		1
	INSECT	BEETLE	0	1	1
	INSECT	BULLET GALL	1		1
	INSECT	CICADA	0	2	2
	INSECT	GALL	0	1	1
	INSECT	GALL WASP	4	1	5
	INSECT	GNARLED OAK GALL	1		1
	INSECT	GOUTY OAK GALL	1		1
	INSECT	HORNED OAK GALL	2	2	4

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	INSECT	JUMPING OAK GALL	0	1	1
	INSECT	LACEBUG	11	1	12
	INSECT	LEAF SKELETONIZE	3		3
	INSECT	LEAF HOPPER	0	1	1
	INSECT	LEAFMINER	1	2	3
	INSECT	LECANIUM SCALE	0	1	1
	INSECT	MAY BEETLE	3		3
	INSECT	OAK APPLE GALL	1		1
	INSECT	OBSCURE SCALE	1		1
	INSECT	PHYLLOXERA	1		1
	INSECT	SAP FEEDER	1		1
	INSECT	SAWFLY	1	1	2
	INSECT	SCALE	2		2
	INSECT	SPIDER MITE	1		1
	INSECT	STINK BUG	0	1	1
	INSECT	UNKNOWN	1		1
	INSECT	VEIN POCKET GALL	4	6	10
	INSECT	WASP	1		1
	INSECT	WOOL SOWER GALL	1		1
	LEAF BLISTER	TAPHRINA	5		5
	LEAF SPOT	FUNGAL	1		1
	LEAF SPOT	TUBAKIA	3	2	5
	LICHEN	SP.	1		1
	ND	ND	8		8
	NUTRITIONAL	FE.DEFICIENCY	1		1
	PHYSICAL INJURY	UNKNOWN	1		1
	POWDERY MILDEW	SP.	2	1	3
	SOOTY MOLD	SP.	1		1
	WETWOOD	BACTERIAL	1		1
PEACH	CULTURAL	TRANSPLANT SHOCK	1		1
	DISTORTION	UNKNOWN	1		1
	INSECT	BEETLE	0	1	1
PEAR	C/APPLE RUST	GYMNOSPORANGIUM	1		1
	CHEMICAL	GROWTH REGULATOR	2		2
	CHEMICAL	HERBICIDE	2		2
	ENVIRONMENTAL	DECLINE	1		1
	ENVIRONMENTAL	FROST INJURY	1		1
	ENVIRONMENTAL	STRESSES	3		3
	FIRE BLIGHT	ERWINIA	13		13
	INAD	INAD	1		1
	INSECT	BLISTER MITE	0	1	1
	INSECT	CATERPILLAR	1		1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	INSECT	SAWFLY	0	1	1
	LEAF SPOT	CERCOSPORA	1		1
	LEAF SPOT	FUNGAL	0	1	1
	ND	ND	2		2
	THREAD BLIGHT	CORTICIUM	1		1
PERSIMMON	INAD	INAD	2		2
	LEAF SPOT	FUNGAL	1		1
PHOTINIA	ENVIRONMENTAL	WINTER INJURY	1	1	2
	LEAF SPOT	ENTOMOSPORIUM	1		1
PINE	ENVIRONMENTAL	WINTER DRYING	1		1
	ENVIRONMENTAL	WINTER INJURY	1		1
	INSECT	BAGWORM	0	1	1
	INSECT	PINE BARK ADELGI	1		1
	INSECT	SAWFLY	2		2
	INSECT	SCALE	0	1	1
	INSECT	UNKNOWN	1		1
	ND	ND	6		6
	NEEDLE BLIGHT	DOTHISTROMA	4	1	5
	PINEWOOD NEMA.	BURSAPHELENCHUS	2		2
	ROOT ROT	PHYTOPHTHORA	2		2
	SOOTY MOLD	SP.	2		2
	TIP BLIGHT	SPHAEROPSIS	3	2	5
	WP.DECLINE	ENVIRONMENTAL	3		3
	WP.ROOT DECLINE	VERTICICLADIELLA	1		1
PLANE TREE	POWDERY MILDEW	MICROSPHAERA	1		1
PLUM	BLACK KNOT	APIOSPORINA	1		1
	CANKER	BOTRYOSPHAERIA	1		1
	CANKER	CYTOSPORA	0	1	1
	CULTURAL	TRANSPLANT SHOCK	1		1
	LEAF CURL	TAPHRINA	1		1
POPLAR	ENVIRONMENTAL	STRESSES	1		1
	INSECT	LEAF MINER	1		1
	WETWOOD	BACTERIAL	1		1
PRIVET	ND	ND	1		1
REDBUD	ANTHRACNOSE	KABATIELLA	1		1
	CHEMICAL	GROWTH REGULATOR	3		3
	CULTURAL	TRANSPLANT SHOCK	1		1
	DECLINE	ENVIRONMENTAL	1		1
	ND	ND	5		5
	WILT	VERTICILLIUM	2		2
RHODODENDRON	CANKER/DIEBACK	BOTRYOSPHAERIA	2		2
	CULTURAL	TRANSPLANT SHOCK	2		2

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	ENVIRONMENTAL	WINTER DRYING	1		1
	LEAF BLIGHT	PHYTOPHTHORA	1		1
	LEAF SPOT	CERCOSPORA	0	1	1
	LEAF SPOT	PHOMOPSIS	1		1
	ND	ND	1		1
	NUTRITIONAL	FE.DEFICIENCY	2		2
ROSE	CANKER	CRYPTOSPORELLA	0	1	1
	CANKER	FUNGAL	0	1	1
	CHEMICAL	GROWTH REGULATOR	2		2
	CHEMICAL	HERBICIDE	3		3
	CULTURAL	WET FEET	1		1
	DIEBACK	PESTALOTIA	0	1	1
	ENVIRONMENTAL	POOR MEDIA	1		1
	ENVIRONMENTAL	WINTER INJURY	4		4
	INAD	INAD	1		1
	INSECT	LEAF HOPPER	1		1
	INSECT	ROSE SCALE	0	1	1
	INSECT	SAWFLY	3		3
	INSECT	SPIDER MITE	0	1	1
	INSECT	THRIPS	1	1	2
	LEAF SPOT	CERCOSPORA	1		1
	ND	ND	3		3
	NUTRITIONAL	ACID SOIL	1		1
	NUTRITIONAL	LOW FERTILITY	0	1	1
	ROOT ROT	PHYTOPHTHORA	1		1
	VIRUS	ROSE MOSAIC	1		1
	VIRUS	ROSE ROSETTE	1		1
ROSE OF SHARON	INSECT	APHID	0	1	1
	LEAF BLIGHT	BACTERIAL	1		1
	LICHEN	SP.	1		1
SASSAFRAS	GENETIC MUTATION	CHIMERA	1		1
	INAD	INAD	1		1
SERVICEBERRY	DECLINE	ENVIRONMENTAL	1		1
	INSECT	SPIDER MITE	1		1
SMOKETREE	LICHEN	SP.	1		1
	RUST	PILEOLARIA	1		1
SOURWOOD	LEAF SPOT	CERCOSPORA	1		1
SPIREA	LEAF SPOT	SEPTORIA	1		1
SPRUCE	CANKER	CYTOSPORA	1		1
	CULTURAL	IMPROPER DEPTH	1		1
	CULTURAL	TRANSPLANT SHOCK	10		10
	DISTORTION	UNKNOWN	1		1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	ENVIRONMENTAL	STRESSES	2	4	6
	ENVIRONMENTAL	TIP BURN	1		1
	ENVIRONMENTAL	WINTER INJURY	2		2
	INSECT	BAGWORM	1		1
	INSECT	CATERPILLAR	1		1
	INSECT	SPIDER MITE	7	2	9
	LICHEN	SP.	1		1
	ND	ND	13		13
	NEEDLE BLIGHT	DOTHISTROMA	2		2
	NEEDLE BLIGHT	STIGMINA	9	5	9
	NEEDLE CAST	RHIZOSPHAERA	30	1	31
	NUTRITIONAL	MG.DEFICIENCY	1		1
	NUTRITIONAL	UNKNOWN	1		1
STEWARTIA	INAD	INAD	1		1
SWEETGUM	INSECT	CATERPILLAR	1		1
	LEAF SPOT	PHYLLOSTICTA	1		1
SYCAMORE	ANTHRACNOSE	APIOGNOMONIA	1		1
	GIRDLING ROOT	CULTURAL	1		1
	PHYSICAL INJURY	BARK DAMAGE	0	1	1
	POWDERY MILDEW	MICROSPHAERA	0	1	1
TAXUS	CULTURAL	WET FEET	1		1
	ENVIRONMENTAL	SCALD	1		1
	ENVIRONMENTAL	WINTER INJURY	2		2
	INSECT	SCALE	2		2
	ND	ND	10		10
	ROOT ROT	PHYTOPHTHORA	1		1
TULIPTREE	ENVIRONMENTAL	STRESSES	1		1
	INSECT	SCALE	1		1
	INSECT	WEEVIL	3		3
	ND	ND	3		3
	SOOTY MOLD	SP.	0	1	1
	WILT	VERTICILLIUM	1		1
VIBURNUM	ENVIRONMENTAL	WINTER INJURY	1		1
	INAD	INAD	1		1
	INSECT	CATERPILLAR	0	1	1
	LEAF SPOT	ASCOCHYTA	1		1
	ND	ND	3		3
	PHYSICAL INJURY	ANIMAL	1		1
	ROOT ROT	PHYTOPHTHORA	1		1
	THREAD BLIGHT	CORTICIUM	1		1
WALNUT	INSECT	GALL MITE	1		1
	LEAF SPOT	CYLINDROSPORIUM	1		1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	LEAF SPOT	PHLOEOSPORA	1		1
WEIGELIA	ND	ND	1		1
WILLOW	CANKER	BOTRYOSPHAERIA	1		1
	CANKER	CYTOSPORA	1		1
	CHEMICAL	UNKNOWN	1		1
	ENVIRONMENTAL	WINTER INJURY	2		2
	GRAY SCAB	SPHACELOMA	1		1
	LEAF SPOT	CERCOSPORA	1		1
	LEAF SPOT	FUNGAL	1		1
WITCHHAZEL	CANKER	BOTRYOSPHAERIA	1		1
	ENVIRONMENTAL	STRESSES	0	1	1
<b>VEGETABLES</b>					
BEAN	ANG.LEAF SPOT	PHAEOSARIOPSIS	1		1
	ANTHRACNOSE	COLLETOTRICHUM	2		2
	COMMON BLIGHT	XANTHOMONAS	1		1
	ENVIRONMENTAL	SCALD	1		1
	INAD	INAD	1		1
	INSECT	SPIDER MITE	2		2
	INSECT	STINK BUG	1	1	2
	INSECT	THRIPS	2	1	3
	LEAF SPOT	CERCOSPORA	5	2	7
	NUTRITIONAL	ACID SOIL	1		1
	NUTRITIONAL	FERTILIZER BURN	1		1
	ROOT ROT	PYTHIUM	1		1
	ROOT/STEM ROT	FUSARIUM	1		1
	ROOT/STEM ROT	PYTHIUM	0	1	1
	ROOT/STEM ROT	RHIZOCTONIA	1		1
BROCCOLI	HEAD ROT	ALTERNARIA	1		1
	INAD	INAD	1		1
	LEAF BURN	ENVIRONMENTAL	1		1
BRUSSELS SPROUT	BACT.LEAF SPOT	PSEUDOMONAS	1		1
	ROOT ROT	PYTHIUM	1		1
CABBAGE	CHEMICAL	HERBICIDE	1		1
	GENETIC	CHIMERA	1		1
	INSECT	APHID	1		1
	LEAF SPOT	ALTERNARIA	0	1	1
	NUTRITIONAL	FERTILIZER BURN	1		1
	NUTRITIONAL	GENERAL	1		1
	NUTRITIONAL	TIPBURN	1		1
	ROOT ROT	PYTHIUM	1		1
	SOFT ROT	ERWINIA	0	1	1
	STEM ROT	RHIZOCTONIA	1		1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	WHITE LEAF SPOT	MYCOSPHAERELLA	1		1
	WHITE MOLD	SCLEROTINIA	1		1
CANTALOUPE	ANG.LEAF SPOT	PSEUDOMONAS	1		1
	ANTHRACNOSE	COLLETOTRICHUM	2	1	3
	BACT.WILT	ERWINIA	1	2	3
	BELLY ROT	RHIZOCTONIA	1		1
	CHEMICAL	UNKNOWN	1		1
	FRUIT ROT	FUSARIUM	1		1
	GUMMY ST.BLIGHT	DIDYMELLA	3		3
	LEAF BLIGHT	ALTERNARIA	1		1
	LEAF SPOT	CERCOSPORA	0	1	1
	ND	ND	2		2
CAULIFLOWER	INSECT	FLEA BEETLE	0	1	1
	WHITE LEAF SPOT	MYCOSPHAERELLA	1		1
COLLARD	BLACK ROT	XANTHOMONAS	1		1
	ENVIRONMENTAL	DRIVING RAIN	1		1
	LEAF SPOT	CERCOSPORA	1		1
CORN	BACT.STALK ROT	ERWINIA	2		2
	EAR/KERNEL ROT	PENICILLIUM	1		1
	ND	ND	1		1
	NO.LEAF BLIGHT	SETOSPAHERIA	1		1
	ROOT ROT	PYTHIUM	1		1
	SMUT	USTILAGO	0	1	1
	SOFT ROT	ERWINIA	1		1
CUCUMBER	ANG.LEAF SPOT	PSEUDOMONAS	1		1
	ANTHRACNOSE	COLLETOTRICHUM	3	1	4
	BACT.WILT	ERWINIA	2		2
	CHEMICAL	UNKNOWN	1		1
	DOWNY MILDEW	PSEUDOPERONOSPOR	8		8
	INSECT	THRIPS	1		1
	LEAF SPOT	CERCOSPORA	2		2
	ND	ND	1		1
	NUTRITIONAL	UNKNOWN	1		1
	PHYSICAL INJURY	UNKNOWN	1		1
	POWDERY MILDEW	SPHAEROTHECA	0	1	1
	ROOT ROT	PYTHIUM	0	1	1
	ROOT ROT	RHIZOCTONIA	1		1
	STEM ROT	SCLEROTINIA	1		1
EGGPLANT	ROOT/STEM ROT	PYTHIUM	1		1
	ROOT/STEM ROT	RHIZOCTONIA	0	1	1
GOURD	CHEMICAL	GROWTH REGULATOR	1		1
	DOWNY MILDEW	PSEUDOPERONOSPOR	1		1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	FRUIT DECAY	PHOMOPSIS	0	1	1
KALE	BLACK ROT	XANTHOMONAS	1		1
	DOWNY MILDEW	HYALOPERONOSPORA	1		1
	ENVIRONMENTAL	SUNSCALD	0	1	1
	ROOT ROT	PYTHIUM	1		1
	WIRESTEM	RHIZOCTONIA	1		1
LETTUCE	BOTTOM ROT	RHIZOCTONIA	1		1
	SOFT ROT	ERWINIA	1		1
MELON	CULTURAL	TRANSPLANT SHOCK	1		1
OKRA	LEAF SPOT	CERCOSPORA	1		1
ONION	INSECT	THRIPS	2		2
	LEAF BLIGHT	STEMPHYLLIUM	0	1	1
	PURPLE BLOTCH	ALTERNARIA	0	1	1
PEA	ND	ND	1		1
PEPPER	ANTHRACNOSE	COLLETOTRICHUM	1		1
	BACT.SPOT	XANTHOMONAS	12	2	14
	BLIGHT	PHYTOPHTHORA	1		1
	CHARCOAL ROT	MACROPHOMINA	1		1
	CHEMICAL	GROWTH REGULATOR	1		1
	CHEMICAL	UNKNOWN	1		1
	ENVIRONMENTAL	COMPACTION	1		1
	ENVIRONMENTAL	SUNSCALD	1		1
	INAD	INAD	1		1
	INSECT	BROAD MITE	1		1
	INSECT	THRIPS	1		1
	ND	ND	3		3
	NUTRITIONAL	UNKNOWN	1		1
	ROOT ROT	PYTHIUM	3	1	4
	ROOT ROT	RHIZOCTONIA	1		1
	ROOT/STEM ROT	PHYTOPHTHORA	1		1
	ROOT/STEM ROT	PYTHIUM	4		4
	ROOT/STEM ROT	RHIZOCTONIA	1		1
	SLIME MOLD	SP.	1		1
	SOFT ROT	ERWINIA	0	1	1
	VIRUS	UNKNOWN	1		1
POTATO	CHEMICAL	GROWTH REGULATOR	1		1
	DRY ROT	FUSARIUM	1		1
	NUTRITIONAL	N.DEFICIENCY	1		1
	ROOT KNOT NEMA.	MELOIDOGYNE	1		1
	SCAB	STREPTOMYCES	0	1	1
PUMPKIN	ANG.LEAF SPOT	PSEUDOMONAS	1		1
	BLIGHT	PHYTOPHTHORA	1		1



**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	BLIGHT	PLECTOSPORIUM	2	1	3
	DOWNY MILDEW	PSEUDOPERONOSPOR	5		5
	GENETIC	UNKNOWN	1		1
	INSECT	APHID	0	1	1
	INSECT	SV BORER	1		1
	ND	ND	1		1
	POWDERY MILDEW	SPHAEROTHECA	2	2	4
	ROOT ROT	GEOTRICHUM	1		1
	SOFT ROT	UNKNOWN	1		1
	SOOTY MOLD	SP.	1		1
	WILT	BACTERIAL	1		1
RADISH	INSECT	APHID	1		1
	ROOT ROT	UNKNOWN	1		1
RHUBARB	CROWN ROT	PHYTOPHTHORA	2		2
	INSECT	RHUBARB CURCULIO	1		1
	NUTRITIONAL	LOW FERTILITY	1		1
SQUASH	ANG.LEAF SPOT	PSEUDOMONAS	3		3
	ANTHRACNOSE	COLLETOTRICHUM	1		1
	BACT.SPOT	XANTHOMONAS	1		1
	BLACK ROOT ROT	THIELAVIOPSIS	1		1
	BLIGHT	PHYTOPHTHORA	2		2
	BLIGHT	PLECTOSPORIUM	0	1	1
	BLOSSOM END ROT	CA.DEF/DRY	1		1
	CHEMICAL	UNKNOWN	1		1
	COTTONY LEAK	PYTHIUM	1		1
	DOWNY MILDEW	PSEUDOPERONOSPOR	4	1	5
	FRUIT ROT	UNKNOWN	1		1
	GUMMY ST.BLIGHT	DIDYMELLA	1		1
	INSECT	APHID	0	1	1
	INSECT	MELON WORM	1		1
	INSECT	UNKNOWN	1		1
	INSECT	VINE BORER	1		1
	LEAF BLIGHT	ALTERNARIA	0	1	1
	LEAF/FRUIT SPOT	BACTERIAL	1		1
	ND	ND	1		1
	NUTRITIONAL	MG.DEFICIENCY	1		1
	PHYSICAL INJURY	UNKNOWN	1		1
	POLLIN.PROBLEM	ENVIRONMENTAL	1		1
	POWDERY MILDEW	SPHAEROTHECA	5	3	8
	SLIME MOLD	SP.	1		1
SWEETPOTATO	CHARCOAL ROT	MACROPHOMINA	1		1
	ENVIRONMENTAL	GROWTH CRACK	1		1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	INSECT	WHITE GRUB	0	1	1
TOMATO	ANTHRACNOSE	COLLETOTRICHUM	2		2
	BACT.CANKER	CLAVIBACTER	1		1
	BACT.SPECK	PSEUDOMONAS	1		1
	BACT.SPOT	UNKNOWN	2		2
	BACT.SPOT	XANTHOMONAS	1		1
	BLIGHT	BOTRYTIS	2	1	3
	BLOSSOM END ROT	CA.DEF/DRY	1		1
	CANKER	BACTERIAL	1		1
	CANKER	RHIZOCTONIA	1		1
	CHEMICAL	GLYPHOSATE	4		4
	CHEMICAL	GROWTH REGULATOR	18	2	20
	CHEMICAL	HERBICIDE	5		5
	CHEMICAL	UNKNOWN	5	1	6
	CULTURAL	OEDEMA	1		1
	DISTORTION	UNKNOWN	1		1
	EARLY BLIGHT	ALTERNARIA	13	6	19
	ENVIRONMENTAL	COLD INJURY	1		1
	ENVIRONMENTAL	HEAT INJURY	1		1
	ENVIRONMENTAL	SUNSCALD	2		2
	ENVIRONMENTAL	UNKNOWN	1		1
	ENVIRONMENTAL	WET FEET	1		1
	FRUIT CRACK	ENVIRONMENTAL	1		1
	FRUIT DECAY	BOTRYTIS	1	1	2
	FRUIT DECAY	SCLEROTINIA	1		1
	INAD	INAD	10		10
	INSECT	BORER	1		1
	INSECT	BROAD MITE	1		1
	INSECT	HORNWORM	1		1
	INSECT	MITE	0	1	1
	INSECT	RUSSET MITE	0	1	1
	INSECT	SEEDCORN MAGGOT	1		1
	INSECT	SPIDER MITE	0	1	1
	INSECT	STALK BORER	1		1
	INSECT	THRIPS	0	1	1
	INSECT	WHITEFLY	1		1
	LEAF BURN	UNKNOWN	3		3
	LEAF MOLD	FULVIA	3	4	7
	LEAF ROLL	PHYSIOLOGICAL	1	1	1
	LEAF SPOT	PHOMA	1		1
	LEAF SPOT	PHYSIOLOGICAL	1		1
	LEAF SPOT	SEPTORIA	30	2	32

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	ND	ND	17		17
	NUTRITIONAL	GENERAL	1	2	3
	NUTRITIONAL	K.DEFICIENCY	1		1
	NUTRITIONAL	LOW FERTILITY	0	2	2
	NUTRITIONAL	MG.DEFICIENCY	2		2
	NUTRITIONAL	N.DEFICIENCY	1	1	2
	NUTRITIONAL	SOLUBLE SALT	2		2
	NUTRITIONAL	UNKNOWN	3		3
	PHYSICAL INJURY	ABRASION	1		1
	PHYSICAL INJURY	UNKNOWN	3		3
	PITH NECROSIS	PSEUDOMONAS	1		1
	POLLIN.PROBLEM	ENVIRONMENT	1		1
	POWDERY MILDEW	OIDIUM	1		1
	ROOT KNOT NEMA.	MELOIDOGYNE	2		2
	ROOT ROT	PYTHIUM	18	3	21
	ROOT/STEM ROT	PYTHIUM	4		4
	ROOT/STEM ROT	RHIZOCTONIA	2	1	3
	SOUTHERN BLIGHT	SCLEROTIUM	1		1
	STEM ROT	RHIZOCTONIA	1		1
	STEM ROT	SCLEROTINIA	5		5
	VIRUS	TMV	0	1	1
	VIRUS	TSWV	12		12
	VIRUS	TYLCV	1		1
	WILT	FUSARIUM	4	1	5
<b>TURNIP</b>	<b>LEAF SPOT</b>	<b>CERCOSPORA</b>	<b>1</b>		<b>1</b>
<b>WATERMELON</b>	<b>ANTHRACNOSE</b>	<b>COLLETOTRICHUM</b>	<b>7</b>		<b>7</b>
	BACT.FRUIT BLOTCH	ACIDOVORAX	1		1
	BACT.WILT	ERWINIA	1		1
	BELLY ROT	RHIZOCTONIA	1		1
	BLACK SPOT	ALTERNARIA	1		1
	CHEMICAL	GROWTH REGULATOR	1		1
	CHEMICAL	UNKNOWN	1		1
	ENVIRONMENTAL	WET FEET	1		1
	FLYSPECK	SP.	0	1	1
	GUMMY ST.BLIGHT	DIDYMELLA	6	1	7
	INSECT	SPIDER MITE	1		1
	LEAF SPOT	CERCOSPORA	0	1	1
	ND	ND	3		3
	ROOT ROT	PYTHIUM	1		1
	ROOT ROT	RHIZOCTONIA	0	1	1
	ROOT/STEM ROT	PYTHIUM	1	1	2
	ROOT/STEM ROT	RHIZOCTONIA	1		1

**Table 10. DIAGNOSIS OF INDIVIDUAL SAMPLES BY CROP AND DISEASE/DISORDER**

<b>CROP</b>	<b>DIAGNOSIS</b>	<b>CAUSAL AGENT</b>	<b>#1DIAG</b>	<b>#2DIAG</b>	<b>TOTAL</b>
	WILT	FUSARIUM	2		2