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**University of Wyoming Cooperative Extension Service  
Plant Pathology Laboratory Report**

**Plant Sample Submissions and Diagnostics for**

**2003**



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## **Preface: How to use this report**

This University of Wyoming Cooperative Extension Service Plant Pathology Report was produced with two objectives in mind.

- It provides a detailed report on the numbers and types of samples that were received and processed through the Extension Plant Pathology Lab (EPPL) since its inception in 1991 (Table 1) and also includes expanded information on samples received during 2003 (Tables 2-10).
- This report is a reference for people who need to know what diseases have been identified and reported in their particular Wyoming county. There are ten tables in this document, which are generally sorted by type of host plant and then grouped by State or Wyoming county. This will facilitate selection of the data set that best suits individual needs.

## University of Wyoming Cooperative Extension Service Plant Pathology Laboratory Report

### Plant Sample Submissions and Diagnostics for 2003

The University of Wyoming Cooperative Extension Service Plant Pathology Laboratory (EPPL) extends from the university campus to the field, and represents UW's Extension Plant Pathology Program. Although considerable educational effort is focused on field research, demonstration plots, and disease recognition, a significant portion of the EPPL programming effort is directed towards a fee-based diagnostic service for plant samples submitted to the EPPL.

Samples for Wyoming clients are submitted by Cooperative Extension Service educators, master gardeners, growers, landscape professionals, and crop advisors. Organizations such as the Wyoming Seed Certification Service and the Potato Certification Association of Nebraska also submit samples to our lab. Once diagnosis of the sample is completed, the client or agent is given written notification of our findings, which may be appended with additional publications and other information providing practical and sample-specific disease management recommendations.

Plant samples also are submitted from surrounding states by university employees, producers, and crop advisors for diagnosis and/or assistance with recommendations for disease control. In addition, the EPPL occasionally receives digital images (indicated by a "D" following the sample number) in lieu of plant samples. Digital photographs are useful tools for keying in on certain plant problems. The use of digital images promotes regionalization of diagnostic efforts among neighboring states.

Samples are also submitted in support of various pest surveys as part of the extension programming effort. For example, a survey is being conducted in Wyoming and three neighboring states to determine the efficacy of various fungicides for *Cercospora beticola*, the causal agent of Cercospora leaf spot of sugar beet. The survey includes infected sugar beet leaf tissue recovered from growers' fields in Colorado, Montana, Nebraska, and Wyoming. Diagnostic results are being used to limit the use of ineffective products. Survey samples submitted during 2003 are listed as numbers 2003.126 to 2003.174.

This report summarizes statistics of the 175 plant samples and related diagnostics for 2003. Various statistics for prior years (1991 through 2003) are summarized in Table 1 and are available at the University of Wyoming Cooperative Extension web site or the UW bulletin room (see publication #B-1111 and MP-110-02, posted on the internet at <http://www.uwyo.edu/ces/plantsci.htm>).

For additional information on the Cooperative Extension plant pathology program, contact Gary Franc, at (307) 766-2397 ([francg@uwyo.edu](mailto:francg@uwyo.edu)) or the *Department of Plant Sciences* office at (307) 766-3103.

**Table 1. Extension Plant Pathology Lab  
Total number of samples submitted from 1991-2003.**

The total number of samples recorded over the period of 1991 to 2003 was 3,219. A total of 175 samples were submitted in 2003. This table has been updated to include previously unrecorded samples for 1994, which were not included in prior publications B-1111 and MP-110-02.

(Note: Sample types are denoted by letters where: F = field crops; S = trees and shrubs; G = home garden and house plants; T = turf; H = commercial horticulture; O = non-plant samples and plant identification; R = research samples; P = pest survey samples)

LOCATION COUNTY/STATE	YEAR	NO. OF SAMPLES	TYPE OF SAMPLE							
			F	S	G	T	H	O	R	P
<b>SAMPLE TOTALS 1991-2003</b>	1991	533	58	340	96	28	0	11	0	0
	1992	315	104	129	50	16	0	8	2	6
	1993	249	162	56	18	2	0	7	4	0
	1994	119	34	24	11	41	0	3	6	0
	1995	102	21	51	19	5	0	0	6	0
	1996	215	19	26	12	2	4	0	1	151
	1997	193	77	50	10	9	4	4	2	37
	1998	205	36	82	18	7	12	0	11	39
	1999	236	22	63	10	11	3	3	12	112
	2000	319	23	71	16	11	5	9	7	177
	2001	410	11	91	15	11	5	7	0	270
	2002	148	10	60	19	12	0	9	4	34
	2003	175	14	65	24	6	2	9	6	49
	<b>TOTAL</b>		<b>3,219</b>	<b>591</b>	<b>1,108</b>	<b>318</b>	<b>161</b>	<b>35</b>	<b>70</b>	<b>61</b>
<b>ALBANY COUNTY</b>	1991	69	2	54	9	4	0	0	0	0
	1992	30	3	17	7	1	0	0	2	0
	1993	16	0	9	5	0	0	0	2	0
	1994	11	0	2	1	8	0	0	0	0
	1995	14	0	9	4	0	0	0	1	0
	1996	7	0	4	3	0	0	0	0	0
	1997	22	0	16	5	0	0	0	1	0
	1998	40	1	26	7	1	0	0	5	0
	1999	22	0	16	4	0	0	0	2	0
	2000	10	0	8	0	0	0	2	0	0
	2001	8	0	4	2	2	0	0	0	0
	2002	8	0	6	1	0	0	0	1	0
	2003	13	0	4	7	0	0	2	0	0
	<b>TOTAL</b>		<b>270</b>	<b>6</b>	<b>175</b>	<b>55</b>	<b>16</b>	<b>0</b>	<b>4</b>	<b>14</b>

LOCATION COUNTY/STATE	YEAR	NO. OF SAMPLES	TYPE OF SAMPLE							
			F	S	G	T	H	O	R	P
<b>BIG HORN COUNTY</b>	1991	10	0	6	3	1	0	0	0	0
	1992	12	2	5	1	2	0	2	0	0
	1993	2	0	2	0	0	0	0	0	0
	1994	5	1	0	3	1	0	0	0	0
	1995	3	0	1	1	1	0	0	0	0
	1996	18	3	0	0	0	3	0	0	12
	1997	3	0	0	0	0	3	0	0	0
	1998	10	0	1	1	0	7	0	0	1
	1999	9	2	3	0	2	2	0	0	0
	2000	2	2	0	0	0	0	0	0	0
	2001	1	0	1	0	0	0	0	0	0
	2002	3	0	2	0	0	0	1	0	0
	2003	2	0	1	1	0	0	0	0	0
	<b>TOTAL</b>	<b>80</b>	<b>10</b>	<b>22</b>	<b>10</b>	<b>7</b>	<b>15</b>	<b>3</b>	<b>0</b>	<b>13</b>
<b>CAMPBELL COUNTY</b>	1991	26	0	18	6	2	0	0	0	0
	1992	13	0	9	3	1	0	0	0	0
	1993	0	0	0	0	0	0	0	0	0
	1994	1	0	1	0	0	0	0	0	0
	1995	2	1	1	0	0	0	0	0	0
	1996	31	0	0	0	0	0	0	0	31
	1997	12	0	6	1	1	0	1	0	3
	1998	13	0	10	1	0	0	0	0	2
	1999	15	0	13	0	2	0	0	0	0
	2000	23	0	16	4	3	0	0	0	0
	2001	33	0	24	2	4	0	3	0	0
	2002	16	0	8	4	2	0	2	0	0
	2003	11	0	4	3	1	0	3	0	0
	<b>TOTAL</b>	<b>196</b>	<b>1</b>	<b>110</b>	<b>24</b>	<b>16</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>36</b>
<b>CARBON COUNTY</b>	1991	19	1	15	3	0	0	0	0	0
	1992	3	0	2	1	0	0	0	0	0
	1993	4	0	4	0	0	0	0	0	0
	1994	5	1	2	0	2	0	0	0	0
	1995	11	5	5	1	0	0	0	0	0
	1996	2	0	1	0	0	0	0	0	1
	1997	3	0	2	0	0	0	0	0	1
	1998	2	0	1	0	0	0	0	0	1
	1999	3	0	3	0	0	0	0	0	0
	2000	2	0	2	0	0	0	0	0	0
	2001	0	0	0	0	0	0	0	0	0
	2002	2	0	2	0	0	0	0	0	0
	2003	1	0	1	0	0	0	0	0	0
	<b>TOTAL</b>	<b>57</b>	<b>7</b>	<b>40</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>

LOCATION COUNTY/STATE	YEAR	NO. OF SAMPLES	TYPE OF SAMPLE								
			F	S	G	T	H	O	R	P	
<b>CONVERSE COUNTY</b>	1991	3	0	3	0	0	0	0	0	0	0
	1992	4	0	2	1	1	0	0	0	0	0
	1993	0	0	0	0	0	0	0	0	0	0
	1994	0	0	0	0	0	0	0	0	0	0
	1995	0	0	0	0	0	0	0	0	0	0
	1996	4	0	0	0	0	0	0	0	0	4
	1997	1	0	0	0	0	0	0	0	0	1
	1998	1	0	0	0	0	0	0	0	0	1
	1999	1	0	0	0	1	0	0	0	0	0
	2000	0	0	0	0	0	0	0	0	0	0
	2001	1	0	1	0	0	0	0	0	0	0
	2002	0	0	0	0	0	0	0	0	0	0
	2003	0	0	0	0	0	0	0	0	0	0
	<b>TOTAL</b>	<b>15</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>
<b>CROOK COUNTY</b>	1991	5	2	1	1	1	0	0	0	0	0
	1992	2	1	1	0	0	0	0	0	0	0
	1993	2	1	0	1	0	0	0	0	0	0
	1994	1	0	0	1	0	0	0	0	0	0
	1995	0	0	0	0	0	0	0	0	0	0
	1996	6	0	0	0	0	0	0	0	0	6
	1997	0	0	0	0	0	0	0	0	0	0
	1998	3	1	0	0	0	0	0	0	0	2
	1999	0	0	0	0	0	0	0	0	0	0
	2000	0	0	0	0	0	0	0	0	0	0
	2001	1	0	1	0	0	0	0	0	0	0
	2002	0	0	0	0	0	0	0	0	0	0
	2003	2	0	1	1	0	0	0	0	0	0
	<b>TOTAL</b>	<b>22</b>	<b>5</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>
<b>FREMONT COUNTY</b>	1991	80	4	55	14	4	0	3	0	0	
	1992	29	1	16	10	1	0	1	0	0	
	1993	9	0	5	3	1	0	0	0	0	
	1994	5	2	0	1	2	0	0	0	0	
	1995	1	0	1	0	0	0	0	0	0	
	1996	10	1	2	0	1	0	0	0	6	
	1997	2	0	1	0	1	0	0	0	0	
	1998	5	0	4	1	0	0	0	0	0	
	1999	4	0	1	2	0	0	1	0	0	
	2000	2	1	0	1	0	0	0	0	0	
	2001	4	0	2	0	0	2	0	0	0	
	2002	4	0	3	1	0	0	0	0	0	
	2003	4	1	2	0	1	0	0	0	0	
	<b>TOTAL</b>	<b>159</b>	<b>10</b>	<b>92</b>	<b>33</b>	<b>11</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>6</b>	

LOCATION COUNTY/STATE	YEAR	NO. OF SAMPLES	TYPE OF SAMPLE							
			F	S	G	T	H	O	R	P
<b>GOSHEN COUNTY</b>	1991	32	10	13	6	3	0	0	0	0
	1992	22	4	8	2	8	0	0	0	0
	1993	6	2	4	0	0	0	0	0	0
	1994	4	2	0	1	1	0	0	0	0
	1995	7	1	4	1	1	0	0	0	0
	1996	15	2	0	0	0	0	0	1	12
	1997	13	2	0	0	1	0	0	0	10
	1998	12	1	0	0	0	0	0	2	9
	1999	5	2	0	1	0	1	0	1	0
	2000	12	2	0	1	0	3	1	3	2
	2001	6	2	3	0	0	1	0	0	0
	2002	3	1	0	0	1	0	0	0	1
	2003	14	6	4	0	1	0	0	0	3
	<b>TOTAL</b>		<b>151</b>	<b>37</b>	<b>36</b>	<b>12</b>	<b>16</b>	<b>5</b>	<b>1</b>	<b>7</b>
<b>HOT SPRINGS COUNTY</b>	1991	21	2	10	4	2	0	3	0	0
	1992	8	0	7	1	0	0	0	0	0
	1993	3	1	1	1	0	0	0	0	0
	1994	4	0	1	0	3	0	0	0	0
	1995	1	0	1	0	0	0	0	0	0
	1996	3	0	2	0	0	0	0	0	1
	1997	2	0	2	0	0	0	0	0	0
	1998	9	1	6	1	1	0	0	0	0
	1999	4	0	4	0	0	0	0	0	0
	2000	8	1	7	0	0	0	0	0	0
	2001	8	0	6	1	0	1	0	0	0
	2002	8	0	6	2	0	0	0	0	0
	2003	3	0	2	1	0	0	0	0	0
	<b>TOTAL</b>		<b>82</b>	<b>5</b>	<b>55</b>	<b>11</b>	<b>6</b>	<b>1</b>	<b>3</b>	<b>0</b>
<b>JOHNSON COUNTY</b>	1991	8	1	7	0	0	0	0	0	0
	1992	2	0	2	0	0	0	0	0	0
	1993	1	1	0	0	0	0	0	0	0
	1994	0	0	0	0	0	0	0	0	0
	1995	0	0	0	0	0	0	0	0	0
	1996	7	2	1	0	0	0	0	0	4
	1997	3	0	1	1	1	0	0	0	0
	1998	6	0	3	2	0	0	0	0	1
	1999	1	0	1	0	0	0	0	0	0
	2000	4	0	1	0	1	1	0	1	0
	2001	3	0	2	0	1	0	0	0	0
	2002	1	0	0	1	0	0	0	0	0
	2003	2	0	2	0	0	0	0	0	0
	<b>TOTAL</b>		<b>38</b>	<b>4</b>	<b>20</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>1</b>



LOCATION COUNTY/STATE	YEAR	NO. OF SAMPLES	TYPE OF SAMPLE							
			F	S	G	T	H	O	R	P
LARAMIE COUNTY	1991	27	7	16	3	1	0	0	0	0
	1992	21	3	7	5	0	0	0	0	6
	1993	2	0	0	2	0	0	0	0	0
	1994	3	1	0	0	1	0	0	1	0
	1995	6	5	0	1	0	0	0	0	0
	1996	20	0	1	1	1	0	0	0	17
	1997	13	1	0	0	0	0	0	0	12
	1998	19	0	5	1	1	0	0	0	12
	1999	3	0	3	0	0	0	0	0	0
	2000	19	5	8	1	3	0	1	1	0
	2001	4	3	1	0	0	0	0	0	0
	2002	3	1	1	1	0	0	0	0	0
	2003	12	3	4	2	0	0	1	2	0
<b>TOTAL</b>		<b>152</b>	<b>29</b>	<b>46</b>	<b>17</b>	<b>7</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>47</b>
LINCOLN COUNTY	1991	19	1	10	6	2	0	0	0	0
	1992	11	0	3	6	0	0	2	0	0
	1993	2	0	0	0	0	0	2	0	0
	1994	4	0	0	1	2	0	1	0	0
	1995	2	0	1	0	1	0	0	0	0
	1996	0	0	0	0	0	0	0	0	0
	1997	1	1	0	0	0	0	0	0	0
	1998	3	0	2	1	0	0	0	0	0
	1999	0	0	0	0	0	0	0	0	0
	2000	6	1	2	0	0	0	3	0	0
	2001	3	0	2	1	0	0	0	0	0
	2002	3	0	3	0	0	0	0	0	0
	2003	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>		<b>54</b>	<b>3</b>	<b>23</b>	<b>15</b>	<b>5</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>
NATRONA COUNTY	1991	48	1	33	9	4	0	1	0	0
	1992	30	0	21	7	1	0	1	0	0
	1993	16	0	12	4	0	0	0	0	0
	1994	6	0	3	1	2	0	0	0	0
	1995	16	0	11	4	1	0	0	0	0
	1996	2	0	1	0	0	0	0	0	1
	1997	7	0	5	0	1	0	0	0	1
	1998	10	0	7	1	0	1	0	0	1
	1999	4	0	2	1	1	0	0	0	0
	2000	4	0	2	0	1	1	0	0	0
	2001	7	0	4	2	0	0	1	0	0
	2002	5	0	1	0	1	0	2	0	0
	2003	5	0	1	4	0	0	0	0	0
<b>TOTAL</b>		<b>160</b>	<b>1</b>	<b>104</b>	<b>33</b>	<b>12</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>3</b>

LOCATION COUNTY/STATE	YEAR	NO. OF SAMPLES	TYPE OF SAMPLE								
			F	S	G	T	H	O	R	P	
<b>NIOBRARA COUNTY</b>	1991	5	4	0	1	0	0	0	0	0	0
	1992	1	0	0	0	0	0	0	1	0	0
	1993	2	0	2	0	0	0	0	0	0	0
	1994	7	2	2	0	3	0	0	0	0	0
	1995	1	0	0	1	0	0	0	0	0	0
	1996	12	0	1	1	0	0	0	0	0	10
	1997	2	0	0	0	0	0	0	0	0	2
	1998	3	1	0	0	0	0	0	0	0	2
	1999	0	0	0	0	0	0	0	0	0	0
	2000	3	0	2	0	0	0	0	0	1	0
	2001	6	0	5	1	0	0	0	0	0	0
	2002	0	0	0	0	0	0	0	0	0	0
	2003	4	1	2	0	1	0	0	0	0	0
	<b>TOTAL</b>	<b>46</b>	<b>8</b>	<b>14</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>14</b>	
<b>PARK COUNTY</b>	1991	71	19	38	12	1	0	1	0	0	
	1992	105	87	15	1	1	0	1	0	0	
	1993	164	154	5	2	1	0	2	0	0	
	1994	27	14	4	2	6	0	1	0	0	
	1995	14	8	5	0	1	0	0	0	0	
	1996	26	6	0	2	0	1	0	0	17	
	1997	77	71	5	0	1	0	0	0	0	
	1998	37	27	2	1	3	2	0	1	1	
	1999	24	9	8	1	4	0	2	0	0	
	2000	18	7	7	2	1	0	1	0	0	
	2001	19	3	12	2	1	0	1	0	0	
	2002	16	0	6	4	6	0	0	0	0	
	2003	16	1	13	0	1	0	1	0	0	
	<b>TOTAL</b>	<b>614</b>	<b>406</b>	<b>120</b>	<b>29</b>	<b>27</b>	<b>3</b>	<b>10</b>	<b>1</b>	<b>18</b>	
<b>PLATTE COUNTY</b>	1991	2	0	2	0	0	0	0	0	0	
	1992	3	2	1	0	0	0	0	0	0	
	1993	5	1	2	0	0	0	2	0	0	
	1994	0	0	0	0	0	0	0	0	0	
	1995	0	0	0	0	0	0	0	0	0	
	1996	9	2	0	0	0	0	0	0	7	
	1997	5	0	0	0	0	0	0	0	5	
	1998	6	1	0	0	0	0	0	0	5	
	1999	0	0	0	0	0	0	0	0	0	
	2000	5	3	0	2	0	0	0	0	0	
	2001	10	0	7	1	1	0	1	0	0	
	2002	5	0	5	0	0	0	0	0	0	
	2003	5	0	4	1	0	0	0	0	0	
	<b>TOTAL</b>	<b>55</b>	<b>9</b>	<b>21</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>17</b>	

LOCATION COUNTY/STATE	YEAR	NO. OF SAMPLES	TYPE OF SAMPLE							
			F	S	G	T	H	O	R	P
<b>SHERIDAN COUNTY</b>	1991	24	3	15	4	1	0	1	0	0
	1992	2	1	0	1	0	0	0	0	0
	1993	4	1	2	0	0	0	0	1	0
	1994	9	1	1	0	7	0	0	0	0
	1995	12	1	6	5	0	0	0	0	0
	1996	22	0	4	1	0	0	0	0	17
	1997	13	0	4	2	2	1	3	0	1
	1998	5	0	1	1	0	2	0	0	1
	1999	0	0	0	0	0	0	0	0	0
	2000	4	1	2	1	0	0	0	0	0
	2001	2	0	1	0	0	1	0	0	0
	2002	6	0	3	3	0	0	0	0	0
	2003	5	0	4	0	0	0	0	1	0
	<b>TOTAL</b>	<b>108</b>	<b>8</b>	<b>43</b>	<b>18</b>	<b>10</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>19</b>
<b>SUBLETTE COUNTY</b>	1991	14	1	12	1	0	0	0	0	0
	1992	6	0	5	1	0	0	0	0	0
	1993	1	0	1	0	0	0	0	0	0
	1994	0	0	0	0	0	0	0	0	0
	1995	0	0	0	0	0	0	0	0	0
	1996	1	0	0	1	0	0	0	0	0
	1997	3	0	0	1	1	0	0	1	0
	1998	0	0	0	0	0	0	0	0	0
	1999	2	0	2	0	0	0	0	0	0
	2000	1	0	0	1	0	0	0	0	0
	2001	0	0	0	0	0	0	0	0	0
	2002	0	0	0	0	0	0	0	0	0
	2003	0	0	0	0	0	0	0	0	0
	<b>TOTAL</b>	<b>28</b>	<b>1</b>	<b>20</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
<b>SWEETWATER COUNTY</b>	1991	2	0	2	0	0	0	0	0	0
	1992	1	0	1	0	0	0	0	0	0
	1993	3	0	3	0	0	0	0	0	0
	1994	2	0	1	0	1	0	0	0	0
	1995	2	0	0	0	0	0	0	2	0
	1996	0	0	0	0	0	0	0	0	0
	1997	2	1	1	0	0	0	0	0	0
	1998	1	0	1	0	0	0	0	0	0
	1999	2	2	0	0	0	0	0	0	0
	2000	1	0	0	0	1	0	0	0	0
	2001	6	0	3	1	1	0	1	0	0
	2002	6	0	3	0	1	0	2	0	0
	2003	2	0	1	0	1	0	0	0	0
	<b>TOTAL</b>	<b>30</b>	<b>3</b>	<b>16</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>0</b>

LOCATION COUNTY/STATE	YEAR	NO. OF SAMPLES	TYPE OF SAMPLE							
			F	S	G	T	H	O	R	P
<b>TETON COUNTY</b>	1991	16	0	13	2	1	0	0	0	0
	1992	3	0	2	1	0	0	0	0	0
	1993	2	0	2	0	0	0	0	0	0
	1994	6	0	4	0	1	0	1	0	0
	1995	3	0	3	0	0	0	0	0	0
	1996	2	0	2	0	0	0	0	0	0
	1997	0	0	0	0	0	0	0	0	0
	1998	6	0	6	0	0	0	0	0	0
	1999	0	0	0	0	0	0	0	0	0
	2000	0	0	0	0	0	0	0	0	0
	2001	3	0	3	0	0	0	0	0	0
	2002	5	0	5	0	0	0	0	0	0
	2003	4	0	4	0	0	0	0	0	0
	<b>TOTAL</b>	<b>50</b>	<b>0</b>	<b>44</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>UINTA COUNTY</b>	1991	10	0	5	4	0	0	1	0	0
	1992	2	0	1	1	0	0	0	0	0
	1993	1	1	0	0	0	0	0	0	0
	1994	1	0	1	0	0	0	0	0	0
	1995	0	0	0	0	0	0	0	0	0
	1996	4	0	4	0	0	0	0	0	0
	1997	1	0	1	0	0	0	0	0	0
	1998	0	0	0	0	0	0	0	0	0
	1999	0	0	0	0	0	0	0	0	0
	2000	9	0	7	1	1	0	0	0	0
	2001	6	0	6	0	0	0	0	0	0
	2002	4	0	3	1	0	0	0	0	0
	2003	3	0	3	0	0	0	0	0	0
	<b>TOTAL</b>	<b>41</b>	<b>1</b>	<b>31</b>	<b>7</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>WASHAKIE COUNTY</b>	1991	12	0	7	5	0	0	0	0	0
	1992	3	0	3	0	0	0	0	0	0
	1993	1	0	1	0	0	0	0	0	0
	1994	4	1	2	0	1	0	0	0	0
	1995	1	0	1	0	0	0	0	0	0
	1996	3	0	2	1	0	0	0	0	0
	1997	0	0	0	0	0	0	0	0	0
	1998	4	0	3	0	1	0	0	0	0
	1999	4	1	3	0	0	0	0	0	0
	2000	2	0	2	0	0	0	0	0	0
	2001	4	0	2	2	0	0	0	0	0
	2002	0	0	0	0	0	0	0	0	0
	2003	12	0	5	4	0	2	1	0	0
	<b>TOTAL</b>	<b>50</b>	<b>2</b>	<b>31</b>	<b>12</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>

LOCATION COUNTY/STATE	YEAR	NO. OF SAMPLES	TYPE OF SAMPLE							
			F	S	G	T	H	O	R	P
<b>WESTON COUNTY</b>	1991	8	0	5	3	0	0	0	0	0
	1992	2	0	1	1	0	0	0	0	0
	1993	2	0	1	0	0	0	1	0	0
	1994	0	0	0	0	0	0	0	0	0
	1995	3	0	2	1	0	0	0	0	0
	1996	8	0	1	2	0	0	0	0	5
	1997	6	0	6	0	0	0	0	0	0
	1998	6	2	4	0	0	0	0	0	0
	1999	6	0	4	1	1	0	0	0	0
	2000	7	0	5	2	0	0	0	0	0
	2001	3	1	1	0	1	0	0	0	0
	2002	3	0	0	1	0	0	2	0	0
	2003	4	0	3	0	0	0	1	0	0
	<b>TOTAL</b>	<b>58</b>	<b>3</b>	<b>33</b>	<b>11</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>5</b>
<b>ALASKA</b>	1991	0	0	0	0	0	0	0	0	0
	1992	0	0	0	0	0	0	0	0	0
	1993	0	0	0	0	0	0	0	0	0
	1994	0	0	0	0	0	0	0	0	0
	1995	1	0	0	0	0	0	0	1	0
	1996	0	0	0	0	0	0	0	0	0
	1997	0	0	0	0	0	0	0	0	0
	1998	3	0	0	0	0	0	0	3	0
	1999	2	0	0	0	0	0	0	2	0
	2000	0	0	0	0	0	0	0	0	0
	2001	0	0	0	0	0	0	0	0	0
	2002	3	2	0	0	0	0	0	1	0
	2003	1	0	0	0	0	0	0	1	0
	<b>TOTAL</b>	<b>10</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>0</b>
<b>CALIFORNIA</b>	1991	0	0	0	0	0	0	0	0	0
	1992	0	0	0	0	0	0	0	0	0
	1993	0	0	0	0	0	0	0	0	0
	1994	0	0	0	0	0	0	0	0	0
	1995	0	0	0	0	0	0	0	0	0
	1996	0	0	0	0	0	0	0	0	0
	1997	1	1	0	0	0	0	0	0	0
	1998	0	0	0	0	0	0	0	0	0
	1999	0	0	0	0	0	0	0	0	0
	2000	0	0	0	0	0	0	0	0	0
	2001	0	0	0	0	0	0	0	0	0
	2002	0	0	0	0	0	0	0	0	0
	2003	0	0	0	0	0	0	0	0	0
	<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

LOCATION COUNTY/STATE	YEAR	NO. OF SAMPLES	TYPE OF SAMPLE								
			F	S	G	T	H	O	R	P	
<b>COLORADO</b>	1991	0	0	0	0	0	0	0	0	0	0
	1992	0	0	0	0	0	0	0	0	0	0
	1993	0	0	0	0	0	0	0	0	0	0
	1994	0	0	0	0	0	0	0	0	0	0
	1995	0	0	0	0	0	0	0	0	0	0
	1996	2	2	0	0	0	0	0	0	0	0
	1997	0	0	0	0	0	0	0	0	0	0
	1998	1	1	0	0	0	0	0	0	0	0
	1999	50	1	0	0	0	0	0	0	1	48
	2000	91	0	0	0	0	0	0	0	0	91
	2001	19	0	0	0	0	0	0	0	0	19
	2002	6	0	0	0	0	0	0	0	1	5
	2003	24	0	0	0	0	0	0	0	0	24
	<b>TOTAL</b>	<b>193</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>187</b>
<b>MICHIGAN</b>	1991	0	0	0	0	0	0	0	0	0	0
	1992	0	0	0	0	0	0	0	0	0	0
	1993	0	0	0	0	0	0	0	0	0	0
	1994	1	0	0	0	0	0	0	0	1	0
	1995	0	0	0	0	0	0	0	0	0	0
	1996	0	0	0	0	0	0	0	0	0	0
	1997	0	0	0	0	0	0	0	0	0	0
	1998	0	0	0	0	0	0	0	0	0	0
	1999	0	0	0	0	0	0	0	0	0	0
	2000	1	0	0	0	0	0	0	1	0	0
	2001	0	0	0	0	0	0	0	0	0	0
	2002	0	0	0	0	0	0	0	0	0	0
	2003	0	0	0	0	0	0	0	0	0	0
	<b>TOTAL</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>MONTANA</b>	1991	0	0	0	0	0	0	0	0	0	0
	1992	0	0	0	0	0	0	0	0	0	0
	1993	0	0	0	0	0	0	0	0	0	0
	1994	0	0	0	0	0	0	0	0	0	0
	1995	0	0	0	0	0	0	0	0	0	0
	1996	0	0	0	0	0	0	0	0	0	0
	1997	0	0	0	0	0	0	0	0	0	0
	1998	0	0	0	0	0	0	0	0	0	0
	1999	24	0	0	0	0	0	0	0	0	24
	2000	12	0	0	0	0	0	0	0	0	12
	2001	11	0	0	0	0	0	0	0	0	11
	2002	2	1	0	0	0	0	0	0	0	1
	2003	5	0	0	0	0	0	0	0	0	5
	<b>TOTAL</b>	<b>54</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>53</b>

LOCATION COUNTY/STATE	YEAR	NO. OF SAMPLES	TYPE OF SAMPLE								
			F	S	G	T	H	O	R	P	
<b>NEBRASKA</b>	1991	0	0	0	0	0	0	0	0	0	0
	1992	0	0	0	0	0	0	0	0	0	0
	1993	1	0	0	0	0	0	0	0	1	0
	1994	12	8	0	0	0	0	0	0	4	0
	1995	2	0	0	0	0	0	0	0	2	0
	1996	0	0	0	0	0	0	0	0	0	0
	1997	1	0	0	0	0	0	0	0	0	1
	1998	0	0	0	0	0	0	0	0	0	0
	1999	50	5	0	0	0	0	0	0	5	40
	2000	72	0	0	0	0	0	0	0	0	72
	2001	223	2	0	0	0	0	0	0	0	221
	2002	29	1	0	0	0	0	0	0	1	27
	2003	19	2	0	0	0	0	0	0	2	15
	<b>TOTAL</b>	<b>409</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>376</b>
<b>WASHINGTON</b>	1991	0	0	0	0	0	0	0	0	0	0
	1992	0	0	0	0	0	0	0	0	0	0
	1993	0	0	0	0	0	0	0	0	0	0
	1994	0	0	0	0	0	0	0	0	0	0
	1995	0	0	0	0	0	0	0	0	0	0
	1996	0	0	0	0	0	0	0	0	0	0
	1997	0	0	0	0	0	0	0	0	0	0
	1998	0	0	0	0	0	0	0	0	0	0
	1999	1	0	0	0	0	0	0	0	1	0
	2000	1	0	0	0	0	0	0	0	1	0
	2001	0	0	0	0	0	0	0	0	0	0
	2002	1	0	1	0	0	0	0	0	0	0
	2003	0	0	0	0	0	0	0	0	0	0
	<b>TOTAL</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>
<b>ORIGIN NOT RECORDED</b>	1991	2	0	0	0	1	0	1	0	0	0
	1992	0	0	0	0	0	0	0	0	0	0
	1993	0	0	0	0	0	0	0	0	0	0
	1994	1	1	0	0	0	0	0	0	0	0
	1995	0	0	0	0	0	0	0	0	0	0
	1996	1	1	0	0	0	0	0	0	0	0
	1997	0	0	0	0	0	0	0	0	0	0
	1998	0	0	0	0	0	0	0	0	0	0
	1999	0	0	0	0	0	0	0	0	0	0
	2000	0	0	0	0	0	0	0	0	0	0
	2001	19	0	0	0	0	0	0	0	0	19
	2002	6	3	1	0	1	0	0	0	0	0
	2003	2	0	0	0	0	0	0	0	0	2
	<b>TOTAL</b>	<b>31</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>21</b>
<b>GRAND TOTAL</b>		<b>3,219</b>	<b>591</b>	<b>1,108</b>	<b>318</b>	<b>161</b>	<b>35</b>	<b>70</b>	<b>61</b>	<b>875</b>	

**Table 2. EPPL samples by sample number 2003**

<b>EPPL ID</b>	<b>County/State</b>	<b>Date In</b>	<b>Host Plant</b>	<b>Primary Diagnosis</b>	<b>Diagnosis/Recommendation</b>
2003-001	Washakie Co., WY	1/10/2003	Spruce	Environmental	Possible mechanical damage
2003-002	Park Co., WY	1/10/2003	Spruce	Environmental	Drought stress
2002-003	Natrona Co., WY	1/25/2003	Bamboo	Bacterial	Pseudomonas sp.
2003-004	Albany Co., WY	1/28/2003	Hibiscus	Environmental	Cultural and water
2003-005	NEBRASKA	10/x/2003	Potato	Fungal	Alternaria (fungicide test)
2003-006	Campbell Co., WY	2/14/2003	Corn (silage)	Other	Object found in silage. Not a weed seed pod. Not a disease
2003-007	Natrona Co., WY	4/3/2003	Sweet Potato	Fungal	Botrytis sp.
2003-008	Goshen Co., WY	4/4/2003	Pine	Environmental	Drought stress, soil conditions
2003-009	Goshen Co., WY	4/4/2003	Pine	Environmental	Drought stress, soil conditions
2003-010	Goshen Co., WY	4/4/2003	Pine	Environmental	Drought stress, soil conditions
2003-011	Goshen Co., WY	4/4/2003	Pine	Environmental	Drought stress, soil conditions
2003-012	Park Co., WY	4/4/2003	Spruce	Environmental	Drought stress
2003-013	Campbell Co., WY	4/10/2003	Mold I.D.	Other	House mold - Alternaria
2003-014	Campbell Co., WY	4/10/2003	Mold I.D.	Other	House mold - Alternaria
2003-015	Sheridan Co., WY	4/20/2003	Spruce	Environmental	Mechanical damage



<b>EPPL ID</b>	<b>County/State</b>	<b>Date In</b>	<b>Host Plant</b>	<b>Primary Diagnosis</b>	<b>Diagnosis/Recommendation</b>
2003-016	Albany Co., WY	4/30/2003	Willow	Environmental	Poor soil (possible Cytospora)
2003-017	Fremont Co., WY	5/1/2003	Pine	Chemical	Auxin herbicide damage
2003-018	Goshen Co., WY	4/30/2003	Turf	Fungal	Ascochyta
2003-019	Albany Co., WY	5/12/2003	Spruce	Environmental	Crowding
2003-020	Goshen Co., WY	5/16/2003	Pea	Bacterial	Pseudomonas sp.
2003-021	Goshen Co., WY	5/16/2003	Alfalfa	Fungal	Phoma medicaginis (Spring black stem)
2003-022	Niobrara Co., WY	5/x/03	Turf	Environmental	Stress
2003-023	NEBRASKA	5/21/2003	Alfalfa	Fungal	Peronospora (Downy Mildew)
2003-024	NEBRASKA	5/21/2003	Wheat	Environmental	Unknown
2003-025	Campbell Co., WY	5/21/2003	Spruce	Environmental	Drought stress
2003-026	Washakie Co., WY	5/27/2003	Crabapple	Environmental	Possible cold or frost damage
2003-027	Teton Co., WY	5/28/2003	Spruce	Environmental	Root damage
2003-028	Platte Co., WY	6/3/2003	Pine	Environmental	Soil conditions
2003-029	Laramie Co., WY	6/4/2003	Pine	Fungal	Comandra Blister Rust
2003-030	Natrona Co., WY	6/4/2003	Linden Tree	Environmental	Salts and poor water conditions

<b>EPPL ID</b>	<b>County/State</b>	<b>Date In</b>	<b>Host Plant</b>	<b>Primary Diagnosis</b>	<b>Diagnosis/Recommendation</b>
2003-031	Goshen Co., WY	6/4/2003	Wheat	Environmental	Frost Injury
2003-032	D Washakie Co., WY	6/6/2003	Fungal I.D.	Other	Mushroom
2003-033	D Teton Co., WY	6/6/2003	Aspen	Bacterial	Agrobacterium tumefaciens (Crown Gall)
2003-034	Sweetwater Co., WY	6/6/2003	Crabapple	Environmental	Possible chemical injury.
2003-035	D Teton Co., WY	6/6/2003	Crabapple	Fungal	Powdery Mildew
2003-036	Campbell Co., WY	6/6/2003	Crabapple	Fungal	Podosphaera leucotricha
2003-037	Park Co., WY	6/10/2003	Turf	Fungal	Bipolaris sp.
2003-038	D Campbell Co., WY	6/12/2003	Turf	Fungal	Bipolaris sp./Drechslera sp.
2003-040	Fremont Co., WY	6/13/2003	Raspberry	Chemical	Herbicide and Nutrient
2003-041	Washakie Co., WY	6/12/2003	Lilac	Environmental	Temperature and water conditions
2003-042	Washakie Co., WY	6/12/2003	Cherry Tree	Environmental	Possible temperature and water conditions
2003-043	Sheridan Co., WY	6/18/2003	Spruce	Chemical	Possible herbicide damage
2003-044	Sheridan Co., WY	6/18/2003	Lilac	Chemical	Possible herbicide damage, possible environmental
2003-045	Sheridan Co., WY	6/18/2003	Ash	Environmental	Possible chemical, but not conclusive

<b>EPPL ID</b>	<b>County/State</b>	<b>Date In</b>	<b>Host Plant</b>	<b>Primary Diagnosis</b>	<b>Diagnosis/Recommendation</b>
2003-046	Campbell Co., WY	6/18/2003	Box Elder	Environmental	Possible chemical, possible insect damage, not conclusive
2003-047	Carbon Co., WY	6/21/2003	Willow	Fungal	Cytospora
2003-048	Natrona Co., WY	6/21/2003	Marigold	Environmental	Water conditions
2003-049	Laramie Co., WY	6/23/2003	Wheat	Environmental	Frost damage
2003-050	Laramie Co., WY	6/23/2003	Tree (galls)	Other	Crown gall (presumptive) on tree roots
2003-051	Weston Co., WY	6/24/2003	Plum	Insect	Insect damage (possibly plum gouger)
2003-052	Weston Co., WY	6/24/2003	Cottonwood	Insect	Chaitophorus populicola (presumptive)
2003-053	Laramie Co., WY	6/27/2003	Dianthus	Virus	TSWV (presumptive)
2003-054	Laramie Co., WY	6/27/2003	Cottonwood	Fungal	Cytospora
2003-055	Sweetwater Co., WY	6/27/2003	Turf	Fungal	Magnaporthe poae (summer patch)
2003-056	Washakie Co., WY	6/30/2003	Corn	Nematodes	Trichodorus & Paratrichodorus sp.
2003-057	Fremont Co., WY	7/1/2003	Turf	Fungal	Helminthosporium, Ascochyta
2003-058	Washakie Co., WY	7/2/2003	Liatrix	Bacterial	Bacteria and fungi - bulb rotting organisms
2003-059	Park Co., WY	7/2/2003	Rye	Other	Nothing unusual detected. Healthy plant
2003-060	Washakie Co., WY	7/2/2003	Caragana	Environmental	Scorch from environmental conditions

<b>EPPL ID</b>	<b>County/State</b>	<b>Date In</b>	<b>Host Plant</b>	<b>Primary Diagnosis</b>	<b>Diagnosis/Recommendation</b>
2003-061	Washakie Co., WY	7/3/2003	Squash	Environmental	Blossom-End Rot
2003-062	Albany Co., WY	7/7/2003	Fungal I.D.	Other	Giant Puffball
2003-063	Fremont Co., WY	7/8/2003	Cottonwood	Fungal	Wood rotting fungi
2003-064	D Hot Springs Co., WY	7/11/2003	Tomato	Virus	Tomato Spotted Wilt Virus
2003-065	D Platte Co., WY	7/14/2003	Pine	Chemical	Herbicide damage (presumptive)
2003-066	Washakie Co., WY	7/10/2003	Tomato	Environmental	Nutritional, cultural
2003-067	Weston Co., WY	7/10/2003	Plant I.D	Other	Plant I.D. -small tree
2003-068	Uinta Co., WY	7/10/2003	Poplar	Chemical	Herbicide Damage & Poplar budgall mites
2003-069	D Platte Co., WY	7/17/2003	Birch	Fungal	Cytospora (presumptive)
2003-070	D Big Horn Co., WY	7/18/2003	Pepper	Environmental	Blossom-End Rot, sunscald
2003-071	Laramie Co., WY	7/17/2003	Cottonwood	Fungal	Cytospora (presumptive)
2003-072	Goshen Co., WY	7/18/2003	Wheat	Fungal	Tilletia sp. (Common Bunt)
2003-073	Albany Co., WY	7/18/2003	Potato	Environmental	Tip burn
2003-074	Albany Co., WY	7/18/2003	Cauliflower	Environmental	Genetic or environmental interaction
2003-075	Laramie Co., WY	7/18/2003	Wheat	Environmental	Found no evidence of pathogen (Biolog)

<b>EPPL ID</b>	<b>County/State</b>	<b>Date In</b>	<b>Host Plant</b>	<b>Primary Diagnosis</b>	<b>Diagnosis/Recommendation</b>
2003-076	Niobrara Co., WY	7/18/2003	Cottonwood	Insect	Popluar budgall mites
2003-077	Laramie Co., WY	7/18/2003	Iris	Fungal	Mycosphaerella macrospora
2003-078	Johnson Co., WY	7/20/2003	Willow	Fungal	Possible Cytospora (unable to observe pycnidia)
2003-079	Sheridan Co., WY	7/21/2003	Bean	Bacterial	XCP, PSP
2003-080	Park Co., WY	7/29/2003	Elm	Environmental	Water & temperature conditions
2003-081	Laramie Co., WY	7/26/2003	Chickpea	Environmental	No Ascochyta detected
2003-082	Laramie Co., WY	7/26/2003	Chickpea	Environmental	No Ascochyta detected
2003-083	Goshen Co., WY	7/26/2003	Chickpea	Fungal	Fusarium (Pythium & Phytophthora not detected)
2003-084	D Natrona Co., WY	7/30/2003	Clematis	Environmental	Crowding
2003-085	D Campbell Co., WY	8/8/2003	Tomato	Chemical	Possible Herbicide Damage
2003-086	Albany Co., WY	8/8/2003	Orange Tree		
2003-086B	D Big Horn Co., WY	8/8/2003	Cottonwood	Bacterial	Wet-wood (presumptive)
2003-087	Laramie Co., WY	8/15/2003	Willow	Insect	Mites
2003-088	Goshen Co., WY	8/10/2003	Potato	Fungal	Verticillium and Rhizoctonia detected
2003-089	Park Co., WY	8/15/2003	Spruce	Other	Mechanical injury or lightening
2003-090	Hot Springs Co., WY	8/17/2003	Maple	Chemical	Herbicide injury

<b>EPPL ID</b>	<b>County/State</b>	<b>Date In</b>	<b>Host Plant</b>	<b>Primary Diagnosis</b>	<b>Diagnosis/Recommendation</b>
2003-091	Park Co., WY	8/15/2003	Oak	Environmental	Watering conditions
2003-092	Park Co., WY	8/15/2003	Pine	Environmental	Watering conditions
2003-093	Albany Co., WY	8/19/2003	Grape	Insect	Grape leaf hopper
2003-094	Teton Co., WY	8/19/2003	Spruce	Environmental	Watering conditions
2003-095	Crook Co., WY	8/22/2003	Spruce	Environmental	Watering conditions
2003-096	Park Co., WY	8/22/2003	Plant I.D	Other	Astragalus cicer
2003-097	Weston Co., WY	8/22/2003	Cottonwood	Environmental	Possible root damage
2003-098	Albany Co., WY	8/26/2003	Maple	Environmental	Possible scorch and watering conditions
2003-099	Laramie Co., WY	8/27/2003	Ligusticum	Bacterial	Bacteria recovered (ran in Biolog), but may not be pathogenic
2003-100	Park Co., WY	8/26/2003	Elm	Environmental	No pathogenic organisms detected
2003-101	D Platte Co., WY	8/27/2003	Burning Bush	Environmental	Watering conditions
2003-102	Park Co., WY	8/29/2003	Spruce	Environmental	Watering conditions
2003-103	Crook Co., WY	8/29/2003	Raspberry	Insect	Insect damage and possible virus
2003-104	Washakie Co., WY	9/2/2003	Linden Tree	Environmental	Watering conditions, nutrient deficiency, mites present
2003-105	NEBRASKA	9/6/2003	Potato	Environmental	Lightening damage (presumptive)

<b>EPPL ID</b>	<b>County/State</b>	<b>Date In</b>	<b>Host Plant</b>	<b>Primary Diagnosis</b>	<b>Diagnosis/Recommendation</b>
2003-106	Park Co., WY	9/6/2003	Juniper	Environmental	Watering conditions
2003-107	Hot Springs Co., WY	9/6/2003	Pine	Environmental	Watering conditions
2003-108	D Washakie Co., WY	9/12/2003	Tomato	Virus	Tomato Spotted Wilt Virus
2003-109	D Campbell Co., WY	9/12/2003	Spruce	Environmental	Planting depth and cultural practices
2003-110	D Johnson Co., WY	9/12/2003	Pine	Other	Natural fall needle drop
2003-111	Albany Co., WY	9/10/2003	Aspen	Environmental	Compaction, possible herbicide, leaf miner insects present
2003-112	Albany Co., WY	9/10/2003	Orange Tree	Environmental	Watering conditions
2003-113	Albany Co., WY	9/29/2003	Raspberry	Environmental	Watering condition or nutritional deficiencies
2003-114	Niobrara Co., WY	10/6/2003	Fir tree	Environmental	Possible watering conditions or root damage
2003-115	Park Co., WY	10/6/2003	Spruce	Environmental	Watering conditions
2003-116	ALASKA	10/6/2003	Potato	Environmental	No pathogenic organisms detected
2003-117	D Platte Co., WY	10/8/2003	Maple	Environmental	Environmental conditions unfavorable for this cultivar
2003-118	Park Co., WY	10/9/2003	Spruce	Environmental	Watering conditions
2003-119	Park Co., WY	10/9/2003	Spruce	Environmental	Watering conditions
2003-120	Park Co., WY	10/9/2003	Spruce	Environmental	Watering conditions

<b>EPPL ID</b>	<b>County/State</b>	<b>Date In</b>	<b>Host Plant</b>	<b>Primary Diagnosis</b>	<b>Diagnosis/Recommendation</b>
2003-121	D Campbell Co., WY	10/15/2003	Corn	Environmental	Tassel-tip (interaction between genetics and environmental factors)
2003-122	Uinta Co., WY	10/17/2003	Aspen	Chemical	Herbicide damage
2003-123	Uinta Co., WY	10/17/2003	Lilac	Chemical	Herbicide damage
2003-124	Albany Co., WY	10/17/2003	Soil Fungi	Other	Rhizopus and other common soil fungi isolated from sample
2003-125	Campbell Co., WY	10/22/2003	Tomato	Environmental	Watering, temperature and nutritional conditions
2003-126	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-127	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-128	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-129	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-130	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-131	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-132	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-133	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-134	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-135	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola



<b>EPPL ID</b>	<b>County/State</b>	<b>Date In</b>	<b>Host Plant</b>	<b>Primary Diagnosis</b>	<b>Diagnosis/Recommendation</b>
2003-136	UNKNOWN	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-137	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-138	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-139	Goshen Co., WY	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-140	Goshen Co., WY	9/30/2003	Sugar Beet	Fungal	Alternaria & Phoma (presumptive)
2003-141	WYOMING	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-142	MONTANA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-143	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-144	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-145	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-146	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-147	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-148	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-149	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-150	COLORADO	9/30/2003	Sugar Beet	Fungal	No Cercospora recovered

<b>EPPL ID</b>	<b>County/State</b>	<b>Date In</b>	<b>Host Plant</b>	<b>Primary Diagnosis</b>	<b>Diagnosis/Recommendation</b>
2003-151	COLORADO	9/30/2003	Sugar Beet	Fungal	No Cercospora recovered
2003-152	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-153	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-154	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-155	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-156	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-157	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-158	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-159	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-160	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-161	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-162	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-163	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-164	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-165	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola

<b>EPPL ID</b>	<b>County/State</b>	<b>Date In</b>	<b>Host Plant</b>	<b>Primary Diagnosis</b>	<b>Diagnosis/Recommendation</b>
2003-166	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-167	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-168	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-169	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-170	MONTANA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-171	MONTANA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-172	MONTANA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-173	MONTANA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-174	Goshen Co., WY	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-175	11/20/2003	Potato	Other	Chimera (skin mutation)	

**Table 3: EPPL diagnostic samples by county or state**

EPPL ID	County/State	Date In	Host Plant	Primary Diagnosis	Diagnosis/Recommendation
<b>Albany County</b>					
2003-004	Albany Co., WY	1/28/2003	Hibiscus	Environmental	Cultural and water
2003-016	Albany Co., WY	4/30/2003	Willow	Environmental	Poor soil (possible Cytospora)
2003-019	Albany Co., WY	5/12/2003	Spruce	Environmental	Crowding
2003-062	Albany Co., WY	7/7/2003	Fungal I.D.	Other	Giant Puffball
2003-073	Albany Co., WY	7/18/2003	Potato	Environmental	Tip burn
2003-074	Albany Co., WY	7/18/2003	Cauliflower	Environmental	Genetic or environmental interaction
2003-086	Albany Co., WY	8/8/2003	Orange Tree	Environmental	Watering condidtions
2003-093	Albany Co., WY	8/19/2003	Grape	Insect	Grape leaf hopper
2003-098	Albany Co., WY	8/26/2003	Maple	Environmental	Possible scorch and watering conditions
2003-111	Albany Co., WY	9/10/2003	Aspen	Environmental	Compaction, possible herbicide, leaf miner insects present
2003-112	Albany Co., WY	9/10/2003	Orange Tree	Environmental	Watering conditions
2003-113	Albany Co., WY	9/29/2003	Raspberry	Environmental	Watering condition or nutritional deficiencies
2003-124	Albany Co., WY	10/17/2003	Soil Fungi	Other	Rhizopus and other common soil fungi isolated from sample

EPPL ID	County/State	Date In	Host Plant	Primary Diagnosis	Diagnosis/Recommendation
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### Big Horn County

2003-070	D Big Horn Co., WY	7/18/2003	Pepper	Environmental	Blossom-End Rot, sunscald
2003-086B	D Big Horn Co., WY	8/8/2003	Cottonwood	Bacterial	Wet-wood (presumptive)

### Campbell County

2003-006	Campbell Co., WY	2/14/2003	Corn (silage)	Other	Object found in silage. Not a weed seed pod. Not a disease
2003-013	Campbell Co., WY	4/10/2003	Mold I.D.	Other	House mold - Alternaria
2003-014	Campbell Co., WY	4/10/2003	Mold I.D.	Other	House mold - Alternaria
2003-025	Campbell Co., WY	5/21/2003	Spruce	Environmental	Drought stress
2003-036	Campbell Co., WY	6/6/2003	Crabapple	Fungal	Podosphaera leucotricha
2003-038	D Campbell Co., WY	6/12/2003	Turf	Fungal	Bipolaris sp./Drechslera sp.
2003-046	Campbell Co., WY	6/18/2003	Box Elder	Environmental	Possible chemical, possible insect damage, not conclusive
2003-085	D Campbell Co., WY	8/8/2003	Tomato	Chemical	Possible Herbicide Damage
2003-109	D Campbell Co., WY	9/12/2003	Spruce	Environmental	Planting depth and cultural practices
2003-121	D Campbell Co., WY	10/15/2003	Corn	Environmental	Tassel-tip (interaction between genetics and environmental factors)
2003-125	Campbell Co., WY	10/22/2003	Tomato	Environmental	Watering, temperature and nutritional conditions

### Carbon County

2003-047	Carbon Co., WY	6/21/2003	Willow	Fungal	Cytospora
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EPPL ID	County/State	Date In	Host Plant	Primary Diagnosis	Diagnosis/Recommendation
<b>Converse County</b>					
None					
<b>Crook County</b>					
2003-095	Crook Co., WY	8/22/2003	Spruce	Environmental	Watering conditions
2003-103	Crook Co., WY	8/29/2003	Raspberry	Insect	Insect damage and possible virus
<b>Fremont County</b>					
2003-017	Fremont Co., WY	5/1/2003	Pine	Chemical	Auxin herbicide damage
2003-040	Fremont Co., WY	6/13/2003	Raspberry	Chemical	Herbicide and Nutrient
2003-057	Fremont Co., WY	7/1/2003	Turf	Fungal	Helminthosporium, Ascochyta
2003-063	Fremont Co., WY	7/8/2003	Cottonwood	Fungal	Wood rotting fungi
<b>Goshen County</b>					
2003-008	Goshen Co., WY	4/4/2003	Pine	Environmental	Drought stress, soil conditions
2003-009	Goshen Co., WY	4/4/2003	Pine	Environmental	Drought stress, soil conditions
2003-010	Goshen Co., WY	4/4/2003	Pine	Environmental	Drought stress, soil conditions
2003-011	Goshen Co., WY	4/4/2003	Pine	Environmental	Drought stress, soil conditions
2003-018	Goshen Co., WY	4/30/2003	Turf	Fungal	Ascochyta
2003-020	Goshen Co., WY	5/16/2003	Pea	Bacterial	Pseudomonas sp.
2003-021	Goshen Co., WY	5/16/2003	Alfalfa	Fungal	Phoma medicaginis (Spring black stem)
2003-031	Goshen Co., WY	6/4/2003	Wheat	Environmental	Frost Injury
2003-072	Goshen Co., WY	7/18/2003	Wheat	Fungal	Tilletia sp. (Common Bunt)
2003-083	Goshen Co., WY	7/26/2003	Chickpea	Fungal	Fusarium (Pythium & Phytophthora not detected)
2003-088	Goshen Co., WY	8/10/2003	Potato	Fungal	Verticillium and Rhizoctonia

EPPL ID	County/State	Date In	Host Plant	Primary Diagnosis	Diagnosis/Recommendation
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### Goshen County (cont.)

2003-139	Goshen Co., WY	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-140	Goshen Co., WY	9/30/2003	Sugar Beet	Fungal	Alternaria & Phoma (presumptive)
2003-174	Goshen Co., WY	9/30/2003	Sugar Beet	Fungal	Cercospora beticola

### Hot Springs County

2003-064	D Hot Springs Co., WY	7/11/2003	Tomato	Virus	Tomato Spotted Wilt Virus
2003-090	Hot Springs Co., WY	8/17/2003	Maple	Chemical	Herbicide injury
2003-107	Hot Springs Co., WY	9/6/2003	Pine	Environmental	Watering conditions

### Johnson County

2003-078	Johnson Co., WY	7/20/2003	Willow	Fungal	Possible Cytospora (unable to observe pycnidia)
2003-110	D Johnson Co., WY	9/12/2003	Pine	Other	Natural fall needle drop

EPPL ID	County/State	Date In	Host Plant	Primary Diagnosis	Diagnosis/Recommendation
<b>Laramie County</b>					
2003-029	Laramie Co., WY	6/4/2003	Pine	Fungal	Comandra Blister Rust
2003-049	Laramie Co., WY	6/23/2003	Wheat	Environmental	Frost damage
2003-050	Laramie Co., WY	6/23/2003	Tree (galls)	Other	Crown gall (presumptive) on tree roots
2003-053	Laramie Co., WY	6/27/2003	Dianthus	Virus	TSWV (presumptive)
2003-054	Laramie Co., WY	6/27/2003	Cottonwood	Fungal	Cytospora
2003-071	Laramie Co., WY	7/17/2003	Cottonwood	Fungal	Cytospora (presumptive)
2003-075	Laramie Co., WY	7/18/2003	Wheat	Environmental	Found no evidence of pathogen (Biolog)
2003-077	Laramie Co., WY	7/18/2003	Iris	Fungal	Mycosphaerella macrospora
2003-081	Laramie Co., WY	7/26/2003	Chickpea	Environmental	No Ascochyta detected
2003-082	Laramie Co., WY	7/26/2003	Chickpea	Environmental	No Ascochyta detected
2003-087	Laramie Co., WY	8/15/2003	Willow	Insect	Mites
2003-099	Laramie Co., WY	8/27/2003	Ligusticum	Bacterial	Bacteria recovered (ran in Biolog), but may not be pathogenic

## Lincoln County

none



EPPL ID	County/State	Date In	Host Plant	Primary Diagnosis	Diagnosis/Recommendation
<b>Natrona County</b>					
2002-003	Natrona Co., WY	1/25/2003	Bamboo	Bacterial	Pseudomonas sp.
2003-007	Natrona Co., WY	4/3/2003	Sweet Potato	Fungal	Botrytis sp.
2003-030	Natrona Co., WY	6/4/2003	Linden Tree	Environmental	Salts and poor water conditions
2003-048	Natrona Co., WY	6/21/2003	Marigold	Environmental	Water conditions
2003-084	D Natrona Co., WY	7/30/2003	Clematis	Environmental	Crowding
<b>Niobrara County</b>					
2003-022	Niobrara Co., WY	5/1/2003	Turf	Environmental	Stress
2003-076	Niobrara Co., WY	7/18/2003	Cottonwood	Insect	Popluar budgall mites
2003-114	Niobrara Co., WY	10/6/2003	Fir tree	Environmental	Possible watering conditions or root damage
2003-175	Niobrara Co., WY	11/20/2003	Potato	Other	Chimera (skin mutation)
<b>Park County</b>					
2003-002	Park Co., WY	1/10/2003	Spruce	Environmental	Drought stress
2003-012	Park Co., WY	4/4/2003	Spruce	Environmental	Drought stress
2003-037	Park Co., WY	6/10/2003	Turf	Fungal	Bipolaris sp.
2003-059	Park Co., WY	7/2/2003	Rye	Other	Nothing unusual detected. Healthy plant
2003-080	Park Co., WY	7/29/2003	Elm	Environmental	Water & temperature conditions
2003-089	Park Co., WY	8/15/2003	Spruce	Other	Mechanical injury or lightning
2003-091	Park Co., WY	8/15/2003	Oak	Environmental	Watering conditions
2003-092	Park Co., WY	8/15/2003	Pine	Environmental	Watering conditions
2003-096	Park Co., WY	8/22/2003	Plant I.D	Other	Astragalus cicer
2003-100	Park Co., WY	8/26/2003	Elm	Environmental	No pathogenic organisms

EPPL ID	County/State	Date In	Host Plant	Primary Diagnosis	Diagnosis/Recommendation
<b>Park County (cont.)</b>					
2003-102	Park Co., WY	8/29/2003	Spruce	Environmental	Watering conditions
2003-106	Park Co., WY	9/6/2003	Juniper	Environmental	Watering conditions
2003-115	Park Co., WY	10/6/2003	Spruce	Environmental	Watering conditions
2003-118	Park Co., WY	10/9/2003	Spruce	Environmental	Watering conditions
2003-119	Park Co., WY	10/9/2003	Spruce	Environmental	Watering conditions
2003-120	Park Co., WY	10/9/2003	Spruce	Environmental	Watering conditions
<b>Platte County</b>					
2003-028	Platte Co., WY	6/3/2003	Pine	Environmental	Soil conditions
2003-065	D Platte Co., WY	7/14/2003	Pine	Chemical	Herbicide damage (presumptive)
2003-069	D Platte Co., WY	7/17/2003	Birch	Fungal	Cytospora (presumptive)
2003-101	D Platte Co., WY	8/27/2003	Burning Bush	Environmental	Watering conditions
2003-117	D Platte Co., WY	10/8/2003	Maple	Environmental	Environmental conditions unfavorable for this cultivar
<b>Sheridan County</b>					
2003-015	Sheridan Co., WY	4/20/2003	Spruce	Environmental	Mechanical damage
2003-043	Sheridan Co., WY	6/18/2003	Spruce	Chemical	Possible herbicide damage
2003-044	Sheridan Co., WY	6/18/2003	Lilac	Chemical	Possible herbicide damage, possible environmental
2003-045	Sheridan Co., WY	6/18/2003	Ash	Environmental	Possible chemical, but not conclusive
2003-079	Sheridan Co., WY	7/21/2003	Bean	Bacterial	XCP, PSP
<b>Sublette County</b>					
none					

EPPL ID	County/State	Date In	Host Plant	Primary Diagnosis	Diagnosis/Recommendation
<b>Sweetwater County</b>					
2003-034	Sweetwater Co., WY	6/6/2003	Crabapple	Environmental	Possible chemical injury.
2003-055	Sweetwater Co., WY	6/27/2003	Turf	Fungal	Magnaporthe poae (summer patch)
<b>Teton County</b>					
2003-027	Teton Co., WY	5/28/2003	Spruce	Environmental	Root damage
2003-033	D Teton Co., WY	6/6/2003	Aspen	Bacterial	Agrobacterium tumefaciens (Crown Gall)
2003-035	D Teton Co., WY	6/6/2003	Crabapple	Fungal	Powdery Mildew
2003-094	Teton Co., WY	8/19/2003	Spruce	Environmental	Watering conditions
<b>Uinta County</b>					
2003-068	Uinta Co., WY	7/10/2003	Poplar	Chemical	Herbicide Damage & Poplar budgall mites
2003-122	Uinta Co., WY	10/17/2003	Aspen	Chemical	Herbicide damage
2003-123	Uinta Co., WY	10/17/2003	Lilac	Chemical	Herbicide damage

EPPL ID	County/State	Date In	Host Plant	Primary Diagnosis	Diagnosis/Recommendation
<b>Washakie County</b>					
2003-001	Washakie Co., WY	1/10/2003	Spruce	Environmental	Possible mechanical damage
2003-026	Washakie Co., WY	5/27/2003	Crabapple	Environmental	Possible cold or frost damage
2003-032	D Washakie Co., WY	6/6/2003	Fungal I.D.	Other	Mushroom
2003-041	Washakie Co., WY	6/12/2003	Lilac	Environmental	Temperature and water conditions
2003-042	Washakie Co., WY	6/12/2003	Cherry Tree	Environmental	Possible temperature and water conditions
2003-056	Washakie Co., WY	6/30/2003	Corn	Nematodes	Trichodorus & Paratrichodorus sp.
2003-058	Washakie Co., WY	7/2/2003	Liatris	Bacterial	Bacteria and fungi - bulb rotting organisms
2003-060	Washakie Co., WY	7/2/2003	Caragana	Environmental	Scorch from environmental conditions
2003-061	Washakie Co., WY	7/3/2003	Squash	Environmental	Blossom-End Rot
2003-066	Washakie Co., WY	7/10/2003	Tomato	Environmental	Nutritional, cultural
2003-104	Washakie Co., WY	9/2/2003	Linden Tree	Environmental	Watering conditions, nutrient deficiency, mites present
2003-108	D Washakie Co., WY	9/12/2003	Tomato	Virus	Tomato Spotted Wilt Virus
<b>Weston County</b>					
2003-051	Weston Co., WY	6/24/2003	Plum	Insect	Insect damage (possibly plum gouger)
2003-052	Weston Co., WY	6/24/2003	Cottonwood	Insect	Chaitophorus populicola (presumptive)
2003-067	Weston Co., WY	7/10/2003	Plant I.D.	Other	Plant I.D. -small tree
2003-097	Weston Co., WY	8/22/2003	Cottonwood	Environmental	Possible root damage

EPPL ID	County/State	Date In	Host Plant	Primary Diagnosis	Diagnosis/Recommendation
<b>Alaska</b>					
2003-116	ALASKA	10/6/2003	Potato	Environmental	No pathogenic organisms detected
<b>California</b>					
none					
<b>Colorado</b>					
2003-126	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-127	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-128	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-129	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-130	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-143	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-144	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-145	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-146	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-147	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-148	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-149	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola

EPPL ID	County/State	Date In	Host Plant	Primary Diagnosis	Diagnosis/Recommendation
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**Colorado (cont).**

2003-150	COLORADO	9/30/2003	Sugar Beet	Fungal	No Cercospora recovered
2003-151	COLORADO	9/30/2003	Sugar Beet	Fungal	No Cercospora recovered
2003-152	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-153	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-154	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-155	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-156	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-157	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-158	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-159	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-160	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-161	COLORADO	9/30/2003	Sugar Beet	Fungal	Cercospora beticola

EPPL ID	County/State	Date In	Host Plant	Primary Diagnosis	Diagnosis/Recommendation
<b>Michigan</b>					
none					
<b>Montana</b>					
2003-142	MONTANA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-170	MONTANA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-171	MONTANA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-172	MONTANA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-173	MONTANA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
<b>Nebraska</b>					
2003-005	NEBRASKA	10/1/2003	Potato	Fungal	Alternaria (fungicide test)
2003-023	NEBRASKA	5/21/2003	Alfalfa	Fungal	Peronospora (Downy Mildew)
2003-024	NEBRASKA	5/21/2003	Wheat	Environmental	Unknown
2003-105	NEBRASKA	9/6/2003	Potato	Environmental	Lightening damage (presumptive)
2003-131	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola

EPPL ID	County/State	Date In	Host Plant	Primary Diagnosis	Diagnosis/Recommendation
<b>Nebraska (cont.)</b>					
2003-132	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-133	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-134	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-135	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-137	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-138	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-162	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-163	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-164	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-165	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-166	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-167	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-168	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
2003-169	NEBRASKA	9/30/2003	Sugar Beet	Fungal	Cercospora beticola
<b>Washington</b>					
None					
<b>Wyoming (county not recorded)</b>					
2003-141	WYOMING	9/30/2003	Sugar Beet	Fungal	Cercospora beticola Sugar Beet



EPPL ID	County/State	Date In	Host Plant	Primary Diagnosis	Diagnosis/Recommendation
<b>Origin Not Recorded</b>					
2003-136	UNKNOWN	9/30/2003	Sugar Beet	Fungal Cercospora beticola	Sugar Beet

**Table 4. EPPL diagnostic samples by host for 2003**

County/State	EPPL ID	Date In	Primary Diagnosis	Diagnosis/Recommendation
<b>Alfalfa</b>				
Goshen Co., WY	2003-021	5/16/2003	Fungal	Phoma medicaginis (Spring black stem)
NEBRASKA	2003-023	5/21/2003	Fungal	Peronospora (Downy Mildew)
<b>Ash</b>				
Sheridan Co., WY	2003-045	6/18/2003	Environmental	Possible chemical, but not conclusive
<b>Aspen</b>				
Albany Co., WY	2003-111	9/10/2003	Environmental	Compaction, possible herbicide, leaf miner insects present
Teton Co., WY	2003-033	D 6/6/2003	Bacterial	Agrobacterium tumefaciens (Crown Gall)
Uinta Co., WY	2003-122	10/17/2003	Chemical	Herbicide damage
<b>Bamboo</b>				
Natrona Co., WY	2002-003	1/25/2003	Bacterial	Pseudomonas sp.
<b>Bean</b>				
Sheridan Co., WY	2003-079	7/21/2003	Bacterial	XCP, PSP

County/State	EPPL ID	Date In	Primary Diagnosis	Diagnosis/Recommendation
<b>Birch</b> Platte Co., WY	2003-069	D 7/17/2003	Fungal	Cytospora (presumptive)
<b>Box Elder</b> Campbell Co., WY	2003-046	6/18/2003	Environmental	Possible chemical, possible insect damage, not conclusive
<b>Burning Bush</b> Platte Co., WY	2003-101	D 8/27/2003	Environmental	Watering conditions
<b>Caragana</b> Washakie Co., WY	2003-060	7/2/2003	Environmental	Scorch from environmental conditions
<b>Cauliflower</b> Albany Co., WY	2003-074	7/18/2003	Environmental	Genetic or environmental interaction
<b>Cherry Tree</b> Washakie Co., WY	2003-042	6/12/2003	Environmental	Possible temperature and water conditions
<b>Chickpea</b> Goshen Co., WY	2003-083	7/26/2003	Fungal	Fusarium (Pythium & Phytophthora not detected)
Laramie Co., WY	2003-081	7/26/2003	Environmental	No Ascochyta detected
Laramie Co., WY	2003-082	7/26/2003	Environmental	No Ascochyta detected
<b>Clematis</b> Natrona Co., WY	2003-084	D 7/30/2003	Environmental	Crowding

County/State	EPPL ID		Date In	Primary Diagnosis	Diagnosis/Recommendation
<b>Corn</b>					
Washakie Co., WY	2003-056		6/30/2003	Nematodes	Trichodorus & Paratrichodorus sp.
Campbell Co., WY	2003-121	D	10/15/2003	Environmental	Tassle-tip (interaction between genetics and environmental factors)
Campbell Co., WY	2003-006		2/14/2003	Other	Object found in silage. Not a weed seed pod. Not a disease
<b>Cottonwood</b>					
Big Horn Co., WY	2003-086B	D	8/8/2003	Bacterial	Wet-wood (presumptive)
Fremont Co., WY	2003-063		7/8/2003	Fungal	Wood rotting fungi
Laramie Co., WY	2003-054		6/27/2003	Fungal	Cytospora
Laramie Co., WY	2003-071		7/17/2003	Fungal	Cytospora (presumptive)
Niobrara Co., WY	2003-076		7/18/2003	Insect	Popluar budgall mites
Weston Co., WY	2003-052		6/24/2003	Insect	Chaitophorus populicola (presumptive)
Weston Co., WY	2003-097		8/22/2003	Environmental	Possible root damage
<b>Crabapple</b>					
Campbell Co., WY	2003-036		6/6/2003	Fungal	Podosphaera leucotricha
Sweetwater Co., WY	2003-034		6/6/2003	Environmental	Possible chemical injury.
Teton Co., WY	2003-035	D	6/6/2003	Fungal	Powdery Mildew
Washakie Co., WY	2003-026		5/27/2003	Environmental	Possible cold or frost damage

County/State	EPPL ID	Date In	Primary Diagnosis	Diagnosis/Recommendation
<b>Dianthus</b>				
Laramie Co., WY	2003-053	6/27/2003	Virus	TSWV (presumptive)
<b>Elm</b>				
Park Co., WY	2003-080	7/29/2003	Environmental	Water & temperature conditions
Park Co., WY	2003-100	8/26/2003	Environmental	No pathogenic organisms detected
<b>Fir</b>				
Niobrara Co., WY	2003-114	10/6/2003	Environmental	Possible watering conditions or root damage
<b>Fungal I.D.</b>				
Albany Co., WY	2003-062	7/7/2003	Other	Giant Puffball
Washakie Co., WY	2003-032	D 6/6/2003	Other	Mushroom
<b>Grape</b>				
Albany Co., WY	2003-093	8/19/2003	Insect	Grape leaf hopper
<b>Hibiscus</b>				
Albany Co., WY	2003-004	1/28/2003	Environmental	Cultural and water
<b>Iris</b>				
Laramie Co., WY	2003-077	7/18/2003	Fungal	Mycosphaerella macrospora

County/State	EPPL ID	Date In	Primary Diagnosis	Diagnosis/Recommendation
<b>Juniper</b>				
Park Co., WY	2003-106	9/6/2003	Environmental	Watering conditions
<b>Liatis</b>				
Washakie Co., WY	2003-058	7/2/2003	Bacterial	Bacteria and fungi - bulb rotting organisms
<b>Ligusticum</b>				
Laramie Co., WY	2003-099	8/27/2003	Bacterial	Bacteria recovered (ran in Biolog), but may not be pathogenic
<b>Lilac</b>				
Sheridan Co., WY	2003-044	6/18/2003	Chemical	Possible herbicide damage, possible environmental
Uinta Co., WY	2003-123	10/17/2003	Chemical	Herbicide damage
Washakie Co., WY	2003-041	6/12/2003	Environmental	Temperature and water conditions
<b>Linden Tree</b>				
Natrona Co., WY	2003-030	6/4/2003	Environmental	Salts and poor water conditions
Washakie Co., WY	2003-104	9/2/2003	Environmental	Watering conditions, nutrient deficiency, mites present

County/State	EPPL ID	Date In	Primary Diagnosis	Diagnosis/Recommendation
<b>Maple</b>				
Albany Co., WY	2003-098	8/26/2003	Environmental	Possible scorch and watering conditions
Hot Springs Co., WY	2003-090	8/17/2003	Chemical	Herbicide injury
Platte Co., WY	2003-117	D 10/8/2003	Environmental	Environmental conditions unfavorable for this cultivar
<b>Marigold</b>				
Natrona Co., WY	2003-048	6/21/2003	Environmental	Water conditions
<b>Mold I.D. (household mold)</b>				
Campbell Co., WY	2003-013	4/10/2003	Other	House mold - Alternaria
Campbell Co., WY	2003-014	4/10/2003	Other	House mold - Alternaria
<b>Oak</b>				
Park Co., WY	2003-091	8/15/2003	Environmental	Watering conditions
<b>Orange Tree</b>				
Albany Co., WY	2003-086	8/8/2003	Environmental	Watering conditions
Albany Co., WY	2003-112	9/10/2003	Environmental	Watering conditions
<b>Pea</b>				
Goshen Co., WY	2003-020	5/16/2003	Bacterial	Pseudomonas sp.

County/State	EPPL ID	Date In	Primary Diagnosis	Diagnosis/Recommendation
<b>Pepper</b>				
Big Horn Co., WY	2003-070	D 7/18/2003	Environmental	Blossom-End Rot, sunscald
<b>Pine</b>				
Fremont Co., WY	2003-017	5/1/2003	Chemical	Auxin herbicide damage
Goshen Co., WY	2003-008	4/4/2003	Environmental	Drought stress, soil conditions
Goshen Co., WY	2003-009	4/4/2003	Environmental	Drought stress, soil conditions
Goshen Co., WY	2003-010	4/4/2003	Environmental	Drought stress, soil conditions
Goshen Co., WY	2003-011	4/4/2003	Environmental	Drought stress, soil conditions
Hot Springs Co., WY	2003-107	9/6/2003	Environmental	Watering conditions
Johnson Co., WY	2003-110	D 9/12/2003	Other	Natural fall needle drop
Laramie Co., WY	2003-029	6/4/2003	Fungal	Comandra Blister Rust
Park Co., WY	2003-092	8/15/2003	Environmental	Watering conditions
Platte Co., WY	2003-028	6/3/2003	Environmental	Soil conditions
Platte Co., WY	2003-065	D 7/14/2003	Chemical	Herbicide damage (presumptive)
<b>Plant ID</b>				
Park Co., WY	2003-096	8/22/2003	Other	Astragalus cicer
Weston Co., WY	2003-067	7/10/2003	Other	Plant I.D. -small tree
<b>Plum</b>				
Weston Co., WY	2003-051	6/24/2003	Insect	Insect damage (possibly plum gouter)
<b>Poplar</b>				
Uinta Co., WY	2003-068	7/10/2003	Chemical	Herbicide Damage & Poplar budgall mites



County/State	EPPL ID	Date In	Primary Diagnosis	Diagnosis/Recommendation
<b>Potato</b>				
ALASKA	2003-116	10/6/2003	Environmental	No pathogenic organisms detected
Albany Co., WY	2003-073	7/18/2003	Environmental	Tip burn
Goshen Co., WY	2003-088	8/10/2003	Fungal	Verticillium and Rhizoctonia detected
NEBRASKA	2003-005	10/1/2003	Fungal	Alternaria (fungicide test)
NEBRASKA	2003-105	9/6/2003	Environmental	Lightening damage (presumptive)
Niobrara Co., WY	2003-175	11/20/2003	Other	Chimera (skin mutation)
<b>Raspberry</b>				
Albany Co., WY	2003-113	9/29/2003	Environmental	Watering condition or nutritional deficiencies
Crook Co., WY	2003-103	8/29/2003	Insect	Insect damage and possible virus
Fremont Co., WY	2003-040	6/13/2003	Chemical	Herbicide and Nutrient
<b>Rye</b>				
Park Co., WY	2003-059	7/2/2003	Other	Nothing unusual detected. Healthy plant
<b>Soil Fungi</b>				
Albany Co., WY	2003-124	10/17/2003	Other	Rhizopus and other common soil fungi isolated from sample

County/State	EPPL ID	Date In	Primary Diagnosis	Diagnosis/Recommendation
<b>Spruce</b>				
Albany Co., WY	2003-019	5/12/2003	Environmental	Crowding
Campbell Co., WY	2003-025	5/21/2003	Environmental	Drought stress
Campbell Co., WY	2003-109	D 9/12/2003	Environmental	Planting depth and cultural practices
Crook Co., WY	2003-095	8/22/2003	Environmental	Watering conditions
Park Co., WY	2003-002	1/10/2003	Environmental	Drought stress
Park Co., WY	2003-012	4/4/2003	Environmental	Drought stress
Park Co., WY	2003-089	8/15/2003	Other	Mechanical injury or lightening
Park Co., WY	2003-102	8/29/2003	Environmental	Watering conditions
Park Co., WY	2003-115	10/6/2003	Environmental	Watering conditions
Park Co., WY	2003-118	10/9/2003	Environmental	Watering conditions
Park Co., WY	2003-119	10/9/2003	Environmental	Watering conditions
Park Co., WY	2003-120	10/9/2003	Environmental	Watering conditions
Sheridan Co., WY	2003-015	4/20/2003	Environmental	Mechanical damage
Sheridan Co., WY	2003-043	6/18/2003	Chemical	Possible herbicide damage
Teton Co., WY	2003-027	5/28/2003	Environmental	Root damage
Teton Co., WY	2003-094	8/19/2003	Environmental	Watering conditions
Washakie Co., WY	2003-001	1/10/2003	Environmental	Possible mechanical damage

## Squash

Washakie Co., WY	2003-061	7/3/2003	Environmental	Blossom-End Rot
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County/State	EPPL ID	Date In	Primary Diagnosis	Diagnosis/Recommendation
<b>Sugar Beet</b>				
COLORADO	2003-126	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-127	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-128	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-129	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-130	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-143	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-144	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-145	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-146	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-147	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-148	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-149	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-150	9/30/2003	Fungal	No Cercospora recovered
COLORADO	2003-151	9/30/2003	Fungal	No Cercospora recovered
COLORADO	2003-152	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-153	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-154	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-155	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-156	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-157	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-158	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-159	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-160	9/30/2003	Fungal	Cercospora beticola
COLORADO	2003-161	9/30/2003	Fungal	Cercospora beticola
Goshen Co., WY	2003-139	9/30/2003	Fungal	Cercospora beticola
Goshen Co., WY	2003-140	9/30/2003	Fungal	Alternaria & Phoma (presumptive)
Goshen Co., WY	2003-174	9/30/2003	Fungal	Cercospora beticola
MONTANA	2003-142	9/30/2003	Fungal	Cercospora beticola
MONTANA	2003-170	9/30/2003	Fungal	Cercospora beticola
MONTANA	2003-171	9/30/2003	Fungal	Cercospora beticola
MONTANA	2003-172	9/30/2003	Fungal	Cercospora beticola
MONTANA	2003-173	9/30/2003	Fungal	Cercospora beticola

County/State	EPPL ID	Date In	Primary Diagnosis	Diagnosis/Recommendation
<b>Sugar Beet</b>				
NEBRASKA	2003-131	9/30/2003	Fungal	Cercospora beticola
NEBRASKA	2003-132	9/30/2003	Fungal	Cercospora beticola
NEBRASKA	2003-133	9/30/2003	Fungal	Cercospora beticola
NEBRASKA	2003-134	9/30/2003	Fungal	Cercospora beticola
NEBRASKA	2003-135	9/30/2003	Fungal	Cercospora beticola
NEBRASKA	2003-137	9/30/2003	Fungal	Cercospora beticola
NEBRASKA	2003-138	9/30/2003	Fungal	Cercospora beticola
NEBRASKA	2003-162	9/30/2003	Fungal	Cercospora beticola
NEBRASKA	2003-163	9/30/2003	Fungal	Cercospora beticola
NEBRASKA	2003-164	9/30/2003	Fungal	Cercospora beticola
NEBRASKA	2003-165	9/30/2003	Fungal	Cercospora beticola
NEBRASKA	2003-166	9/30/2003	Fungal	Cercospora beticola
NEBRASKA	2003-167	9/30/2003	Fungal	Cercospora beticola
NEBRASKA	2003-168	9/30/2003	Fungal	Cercospora beticola
NEBRASKA	2003-169	9/30/2003	Fungal	Cercospora beticola
UNKNOWN	2003-136	9/30/2003	Fungal	Cercospora beticola
WYOMING	2003-141	9/30/2003	Fungal	Cercospora beticola
<b>Sweet Potato</b>				
Natrona Co., WY	2003-007	4/3/2003	Fungal	Botrytis sp.
<b>Tomato</b>				
Campbell Co., WY	2003-085	D 8/8/2003	Chemical	Possible Herbicide Damage
Campbell Co., WY	2003-125	10/22/2003	Environmental	Watering, temperature and nutritional conditions
Hot Springs Co., WY	2003-064	D 7/11/2003	Virus	Tomato Spotted Wilt Virus
Washakie Co., WY	2003-066	7/10/2003	Environmental	Nutritional, cultural
Washakie Co., WY	2003-108	D 9/12/2003	Virus	Tomato Spotted Wilt Virus

County/State	EPPL ID		Date In	Primary Diagnosis	Diagnosis/Recommendation
<b>Trees (galls)</b>					
Laramie Co., WY	2003-050		6/23/2003	Other	Crown gall (presumptive) on tree roots
<b>Turf</b>					
Campbell Co., WY	2003-038	D	6/12/2003	Fungal	Bipolaris sp./Drechslera sp.
Fremont Co., WY	2003-057		7/1/2003	Fungal	Helminthosporium, Ascochyta
Goshen Co., WY	2003-018		4/30/2003	Fungal	Ascochyta
Niobrara Co., WY	2003-022		5/1/2003	Environmental	Stress
Park Co., WY	2003-037		6/10/2003	Fungal	Bipolaris sp.
Sweetwater Co., WY	2003-055		6/27/2003	Fungal	Magnaporthe poae (summer patch)
<b>Wheat</b>					
Goshen Co., WY	2003-031		6/4/2003	Environmental	Frost Injury
Goshen Co., WY	2003-072		7/18/2003	Fungal	Tilletia sp. (Common Bunt)
Laramie Co., WY	2003-075		7/18/2003	Environmental	Found no evidence of pathogen (Biolog)
NEBRASKA	2003-024		5/21/2003	Environmental	Unknown
Laramie Co., WY	2003-049		6/23/2003	Environmental	Frost damage
<b>Willow</b>					
Albany Co., WY	2003-016		4/30/2003	Environmental	Poor soil (possible Cytospora)
Carbon Co., WY	2003-047		6/21/2003	Fungal	Cytospora
Johnson Co., WY	2003-078		7/20/2003	Fungal	Possible Cytospora (unable to observe pycnidia)
Laramie Co., WY	2003-087		8/15/2003	Insect	Mites

**Table 5. EPPL field crop samples 2003**

EPPL ID	County/State	Date In	Cultivar/Variety	Primary Diagnosis	Diagnosis/Recommendation
<b>Alfalfa</b>					
2003-021	Goshen Co., WY	5/16/2003		Fungal	Phoma medicaginis (Spring black stem)
2003-023	NEBRASKA	5/21/2003		Fungal	Peronospora (Downy Mildew)
<b>Chickpea</b>					
2003-081	Laramie Co., WY	7/26/2003		Environmental	No Ascochyta detected
2003-082	Laramie Co., WY	7/26/2003		Environmental	No Ascochyta detected
2003-083	Goshen Co., WY	7/26/2003		Fungal	Fusarium (Pythium & Phytophthora not detected)
<b>Pea</b>					
2003-020	Goshen Co., WY	5/16/2003		Bacterial	Pseudomonas sp.
<b>Potato</b>					
2003-088	Goshen Co., WY	8/10/2003		Fungal	Verticillium and Rhizoctonia detected
2003-175	Niobrara Co., WY	11/20/2003	Potato	Other	Chimera (skin mutation)
<b>Raspberry</b>					
2003-040	Fremont Co., WY	6/13/2003		Chemical	
<b>Rye</b>					
2003-059	Park Co., WY	7/2/2003	Wile Rye	Other	

EPPL ID	County/State	Date In	Cultivar/Variety	Primary Diagnosis	Diagnosis/Recommendation
<b>Wheat</b>					
2003-024	NEBRASKA	5/21/2003		Environmental	
2003-031	Goshen Co., WY	6/4/2003	Winter Wheat	Environmental	
2003-072	Goshen Co., WY	7/18/2003		Fungal	
2003-049	Laramie Co., WY	6/23/2003		Environmental	

**Table 6. EPPL tree and shrub samples 2003**

EPPL ID	County/State	Date In	Cultivar/Variety	Primary Diagnosis	Diagnosis/Recommendation
<b>Ash</b>					
2003-045	Sheridan Co., WY	6/18/2003		Environmental	Possible chemical, but not conclusive
<b>Aspen</b>					
2003-033	D Teton Co., WY	6/6/2003		Bacterial	Agrobacterium tumefaciens (Crown Gall)
2003-111	Albany Co., WY	9/10/2003		Environmental	Compaction, possible herbicide, leaf miner insects present
2003-122	Uinta Co., WY	10/17/2003		Chemical	Herbicide damage
<b>Birch</b>					
2003-069	D Platte Co., WY	7/17/2003		Fungal	Cytospora (presumptive)
<b>Box Elder</b>					
2003-046	Campbell Co., WY	6/18/2003		Environmental	Possible chemical, possible insect damage, not conclusive
<b>Cherry Tree</b>					
2003-042	Washakie Co., WY	6/12/2003		Environmental	Possible temperature and water conditions



EPPL ID	County/State	Date In	Cultivar/Variety	Primary Diagnosis	Diagnosis/Recommendation
<b>Cottonwood</b>					
2003-052	Weston Co., WY	6/24/2003		Insect	Chaitophorus populicola (presumptive)
2003-054	Laramie Co., WY	6/27/2003		Fungal	Cytospora
2003-063	Fremont Co., WY	7/8/2003		Fungal	Wood rotting fungi
2003-071	Laramie Co., WY	7/17/2003		Fungal	Cytospora (presumptive)
2003-076	Niobrara Co., WY	7/18/2003		Insect	Popluar budgall mites
2003-086B	D Big Horn Co., WY	8/8/2003		Bacterial	Wet-wood (presumptive)
2003-097	Weston Co., WY	8/22/2003		Environmental	Possible root damage
<b>Crabapple</b>					
2003-026	Washakie Co., WY	5/27/2003		Environmental	Possible cold or frost damage
2003-034	Sweetwater Co., WY	6/6/2003		Environmental	Possible chemical injury.
2003-035	D Teton Co., WY	6/6/2003		Fungal	Powdery Mildew
2003-036	Campbell Co., WY	6/6/2003		Fungal	Podosphaera leucotricha
<b>Elm</b>					
2003-080	Park Co., WY	7/29/2003	Chinese Elm	Environmental	Water & temperature conditions
2003-100	Park Co., WY	8/26/2003		Environmental	No pathogenic organisms detected

EPPL ID	County/State	Date In	Cultivar/Variety	Primary Diagnosis	Diagnosis/Recommendation
<b>Fir Tree</b>					
2003-114	Niobrara Co., WY	10/6/2003		Environmental	Possible watering conditions or root damage
<b>Juniper</b>					
2003-106	Park Co., WY	9/6/2003		Environmental	Watering conditions
<b>Lilac</b>					
2003-041	Washakie Co., WY	6/12/2003		Environmental	Temperature and water conditions
2003-044	Sheridan Co., WY	6/18/2003		Chemical	Possible herbicide damage, possible environmental
2003-123	Uinta Co., WY	10/17/2003		Chemical	Herbicide damage
<b>Linden Tree</b>					
2003-030	Natrona Co., WY	6/4/2003		Environmental	Salts and poor water conditions
2003-104	Washakie Co., WY	9/2/2003		Environmental	Watering conditions, nutrient deficiency, mites present
<b>Maple</b>					
2003-090	Hot Springs Co., WY	8/17/2003	Silver Maple	Chemical	Herbicide injury
2003-098	Albany Co., WY	8/26/2003		Environmental	Possible scorch and watering conditions
2003-117	D Platte Co., WY	10/8/2003	Red Maple (Acer rubrum)	Environmental	Environmental conditions unfavorable for this cultivar

EPPL ID	County/State	Date In	Cultivar/Variety	Primary Diagnosis	Diagnosis/Recommendation
<b>Oak</b>					
2003-091		8/15/2003		Environmental	Watering conditions
<b>Pine</b>					
2003-008	Goshen Co., WY	4/4/2003	Ponderosa Pine	Environmental	Drought stress, soil conditions
2003-009	Goshen Co., WY	4/4/2003	Ponderosa Pine	Environmental	Drought stress, soil conditions
2003-010	Goshen Co., WY	4/4/2003	Ponderosa Pine	Environmental	Drought stress, soil conditions
2003-011	Goshen Co., WY	4/4/2003	Ponderosa Pine	Environmental	Drought stress, soil conditions
2003-017	Fremont Co., WY	5/1/2003		Chemical	Auxin herbicide damage
2003-028	Platte Co., WY	6/3/2003		Environmental	Soil conditions
2003-029	Laramie Co., WY	6/4/2003	Austrian Pine	Fungal	Comandra Blister Rust
2003-065	D Platte Co., WY	7/14/2003		Chemical	Herbicide damage (presumptive)
2003-092	Park Co., WY	8/15/2003	Ponderosa Pine	Environmental	Watering conditions
2003-107	Hot Springs Co., WY	9/6/2003		Environmental	Watering conditions
2003-110	D Johnson Co., WY	9/12/2003	Ponderosa Pine	Other	Natural fall needle drop
<b>Plum</b>					
2003-051	Weston Co., WY	6/24/2003		Insect	Insect damage (possibly plum gouger)
<b>Poplar</b>					
2003-068	Uinta Co., WY	7/10/2003		Chemical	Herbicide Damage & Poplar budgall mites

EPPL ID	County/State	Date In	Cultivar/Variety	Primary Diagnosis	Diagnosis/Recommendation
<b>Spruce</b>					
2003-001	Washakie Co., WY	1/10/2003		Environmental	Possible mechanical damage
2003-002	Park Co., WY	1/10/2003		Environmental	Drought stress
2003-012	Park Co., WY	4/4/2003		Environmental	Drought stress
2003-015	Sheridan Co., WY	4/20/2003		Environmental	Mechanical damage
2003-019	Albany Co., WY	5/12/2003		Environmental	Crowding
2003-025	Campbell Co., WY	5/21/2003		Environmental	Drought stress
2003-027	Teton Co., WY	5/28/2003		Environmental	Root damage
2003-043	Sheridan Co., WY	6/18/2003		Chemical	Possible herbicide damage
2003-089	Park Co., WY	8/15/2003		Other	Mechanical injury or lightening
2003-094	Teton Co., WY	8/19/2003		Environmental	Watering conditions
2003-095	Crook Co., WY	8/22/2003	Blue Spruce	Environmental	Watering conditions
2003-102	Park Co., WY	8/29/2003		Environmental	Watering conditions
2003-109	D Campbell Co., WY	9/12/2003		Environmental	Planting depth and cultural practices
2003-115	Park Co., WY	10/6/2003		Environmental	Watering conditions
2003-118	Park Co., WY	10/9/2003		Environmental	Watering conditions
2003-119	Park Co., WY	10/9/2003		Environmental	Watering conditions
2003-120	Park Co., WY	10/9/2003		Environmental	Watering conditions

EPPL ID	County/State	Date In	Cultivar/Variety	Primary Diagnosis	Diagnosis/Recommendation
<b>Willow</b>					
2003-016	Albany Co., WY	4/30/2003	Golden Willow	Environmental	Poor soil (possible Cytospora)
2003-047	Carbon Co., WY	6/21/2003		Fungal	Cytospora
2003-078	Johnson Co., WY	7/20/2003	Golden Willow	Fungal	Possible Cytospora (unable to observe pycnidia)
2003-087	Laramie Co., WY	8/15/2003	Coyote Willow	Insect	Mites

**Table 7. EPPL home and garden samples 2003**

EPPL ID	County/State	Date In	Cultivar/Variety	Primary Diagnosis	Diagnosis/Recommendation
<b>Bamboo</b>					
2002-003	Natrona Co., WY	1/25/2003		Bacterial	Pseudomonas sp.
<b>Burning Bush</b>					
2003-101	D Platte Co., WY	8/27/2003		Environmental	Watering conditions
<b>Cauliflower</b>					
2003-074	Albany Co., WY	7/18/2003		Environmental	Genetic or environmental interaction
<b>Clematis</b>					
2003-084	D Natrona Co., WY	7/30/2003		Environmental	Crowding
<b>Corn</b>					
2003-056	Washakie Co., WY	6/30/2003		Nematodes	Trichodorus & Paratrichodorus sp.
2003-121	D Campbell Co., WY	10/15/2003		Environmental	Tassel-tip (interaction between genetics and environmental factors)
<b>Dianthus</b>					
2003-053	Laramie Co., WY	6/27/2003	Dianthus barbatus	Virus	TSWV (presumptive)
<b>Grape</b>					
2003-093	Albany Co., WY	8/19/2003	Wild Grape	Insect	Grape leaf hopper

EPPL ID	County/State	Date In	Cultivar/Variety	Primary Diagnosis	Diagnosis/Recommendation
<b>Hibiscus</b>					
2003-004	Albany Co., WY	1/28/2003		Environmental	Cultural and water
<b>Iris</b>					
2003-077	Laramie Co., WY	7/18/2003		Fungal	Mycosphaerella macrospora
<b>Liatris</b>					
2003-058	Washakie Co., WY	7/2/2003		Bacterial	Bacteria and fungi - bulb rotting organisms
<b>Marigold</b>					
2003-048	Natrona Co., WY	6/21/2003		Environmental	Water conditions
<b>Orange Tree</b>					
2003-086	Albany Co., WY	8/8/2003			
2003-112	Albany Co., WY	9/10/2003		Environmental	Watering conditions
<b>Pepper</b>					
2003-070	D Big Horn Co., WY	7/18/2003	Green Pepper	Environmental	Blossom-End Rot, sunscald
<b>Potato</b>					
2003-073	Albany Co., WY	7/18/2003		Environmental	Tip burn

EPPL ID	County/State	Date In	Cultivar/Variety	Primary Diagnosis	Diagnosis/Recommendation
<b>Raspberry</b>					
2003-103	Crook Co., WY	8/29/2003		Insect	Insect damage and possible virus
2003-113	Albany Co., WY	9/29/2003		Environmental	Watering condition or nutritional deficiencies
<b>Sweet Potato</b>					
2003-007	Natrona Co., WY	4/3/2003		Fungal	Botrytis sp.
<b>Tomato</b>					
2003-064	D Hot Springs Co., WY	7/11/2003		Virus	Tomato Spotted Wilt Virus
2003-066	Washakie Co., WY	7/10/2003		Environmental	Nutritional, cultural
2003-085	D Campbell Co., WY	8/8/2003		Chemical	Possible Herbicide Damage
2003-108	D Washakie Co., WY	9/12/2003		Virus	Tomato Spotted Wilt Virus
2003-125	Campbell Co., WY	10/22/2003		Environmental	Watering, temperature and nutritional conditions



**Table 8. EPPL turf samples 2003**

EPPL ID	County/State	Date In	Cultivar/Variety	Primary Diagnosis	Diagnosis/Recommendation
<b>Turf</b>					
2003-018	Goshen Co., WY	4/30/2003		Fungal	Ascochyta
2003-022	Niobrara Co., WY	5/x/03		Environmental	Stress
2003-037	Park Co., WY	6/10/2003		Fungal	Bipolaris sp.
2003-038	D Campbell Co., WY	6/12/2003		Fungal	Bipolaris sp./Drechslera sp.
2003-055	Sweetwater Co., WY	6/27/2003		Fungal	Magnaporthe poae (summer patch)
2003-057	Fremont Co., WY	7/1/2003		Fungal	Helminthosporium, Ascochyta

**Table 9. EPPL non-plant and plant identification samples 2003**

EPPL ID	County/State	Date In	Cultivar/Variety	Primary Diagnosis	Diagnosis/Recommendation	
2003-006	Campbell Co., WY	2/14/2003		Other	Object found in silage. Not a weed seed pod. Not a disease	○
2003-032	D Washakie Co., WY	6/6/2003		Other	Mushroom	○
2003-062	Albany Co., WY	7/7/2003		Other	Giant Puffball	○
2003-013	Campbell Co., WY	4/10/2003		Other	House mold - Alternaria	○
2003-014	Campbell Co., WY	4/10/2003		Other	House mold - Alternaria	○
2003-067	Weston Co., WY	7/10/2003		Other	Plant I.D. -small tree	○
2003-096	Park Co., WY	8/22/2003		Other	Astragalus cicer	○
2003-124	Albany Co., WY	10/17/2003		Other	Rhizopus and other common soil fungi isolated from sample	○
2003-050	Laramie Co., WY	6/23/2003		Other	Crown gall (presumptive) on tree roots	○

## Table 10. EPPL high plains regional *Cercospora* survey 2003

### *Cercospora* Leaf Spot Survey (sample numbers 2003.126 through 2003.174)

A survey is being conducted in Wyoming and neighboring states to determine fungicide sensitivity of the fungus *Cercospora beticola*, the causal agent of *Cercospora* leaf spot of sugar beet. This disease is causing economic loss in the High Plains. Therefore, surveys include infected sugar beet leaf samples recovered from growers' fields in Colorado, Montana, Nebraska, and Wyoming. Diagnostic results are being used to limit fungicide usage to those products that are most effective in each particular production area. Samples submitted during 2003 for this survey are listed as numbers 2003.126 through 2003.174. For additional information on survey results, contact Dr. Gary Franc, at (307) 766-2397 ([francg@uwyo.edu](mailto:francg@uwyo.edu)). Previous survey results were published in the Journal of Sugar Beet Research. The references are as follows:

1. Fungicide sensitivity characteristics of *Cercospora beticola* isolates recovered from the High Plains of Colorado, Montana, Nebraska, and Wyoming. 1. Benzimidazole and Triphenyltin Hydroxide. S. C. Briere, G. D. Franc, and E. D. Kerr. J. Sugar Beet Res. vol 38:111-120.
2. Fungicide Sensitivity Characteristics of *Cercospora beticola* Isolates Recovered from the High Plains of Colorado, Montana, Nebraska, and Wyoming. 2. Mancozeb, Propiconazole, and Azoxystrobin. S.C. Briere, G.D. Franc, and E.D. Kerr. J. Sugar Beet Res. Vol 40:53-65.

County/State	EPPL ID Number	Field number and number of isolates recovered
COLORADO	2003-126	Field 1 (a)
COLORADO	2003-127	Field 2 (a,b,c)
COLORADO	2003-128	Field 3 (a,b,c)
COLORADO	2003-129	Field 4 (a,b,c,d)
COLORADO	2003-130	Field 5 (a)
COLORADO	2003-143	Field 18 (a,b,c,d)
COLORADO	2003-144	Field 19 (a,b,c,d,e,f)
COLORADO	2003-145	Field 20 (a,b,c)
COLORADO	2003-146	Field 21 (a,b)
COLORADO	2003-147	Field 22 (a,b,c,d,e,f,g)
COLORADO	2003-148	Field 23 (a,b,c,d)
COLORADO	2003-149	Field 24 (a,b,c,d)
COLORADO	2003-150	Field 25
COLORADO	2003-151	Field 26
COLORADO	2003-152	Field 27 (a,b,c,d,e)
COLORADO	2003-153	Field 28 (a,b)
COLORADO	2003-154	Field 29 (a,b)
COLORADO	2003-155	Field 30 (a,b)
COLORADO	2003-156	Field 31 (a,b,c,d,e)
COLORADO	2003-157	Field 32 (a,b,c)
COLORADO	2003-158	Field 33 (a,b)
COLORADO	2003-159	Field 34 (a)
COLORADO	2003-160	Field 35 (a)
COLORADO	2003-161	Field 36 (a,b,c)

County/State	EPPL ID Number	Field number and number of isolates recovered
MONTANA	2003-142	Field 17 (a,b)
MONTANA	2003-170	Field 45 (a,b,c,d,e)
MONTANA	2003-171	Field 46 (a,b,c)
MONTANA	2003-172	Field 47 (a)
MONTANA	2003-173	Field 48 (a,b,c)
NEBRASKA	2003-131	Field 6 (a,b,c,d,e,f)
NEBRASKA	2003-132	Field 7 (a)
NEBRASKA	2003-133	Field 8 (a,b,c)
NEBRASKA	2003-134	Field 9 (a,b,c,d,e)
NEBRASKA	2003-135	Field 10 (a,b,c,d,e)
NEBRASKA	2003-137	Field 12 (a,b,c,d,e)
NEBRASKA	2003-138	Field 13 (a,b)
NEBRASKA	2003-162	Field 37 (a,b,c,d)
NEBRASKA	2003-163	Field 38 (a,b,c,d)
NEBRASKA	2003-164	Field 39 (a,b)
NEBRASKA	2003-165	Field 40 (a,b,c,d,e)
NEBRASKA	2003-166	Field 41 (a,b,c,d)
NEBRASKA	2003-167	Field 42 (a)
NEBRASKA	2003-168	Field 43 (a,b)
NEBRASKA	2003-169	Field 44 (a,b,c,d,e)
UNKNOWN	2003-136	Field 11 (a,b)
WYOMING	2003-141	Field 16 (a,b,c)
WYOMING (Goshen County)	2003-139	Field 14 (a,b)
WYOMING (Goshen County)	2003-140	Field 15
WYOMING (Goshen County)	2003-174	Field 49 (wyo1,2,8,7)

## EPPL 2003 Report Survey Questionnaire

We are always striving to provide the best service to our EPPL clientele. We would appreciate any comments or suggestions that would help us improve this report in the next revision. Use the space provided below to write your comments. Please photocopy this page and mail it to the address shown below. Thank you.

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**Please mail to:**

Attention: Extension Plant Pathology Laboratory  
University of Wyoming  
Plant Sciences Department  
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Laramie, WY 82071-3354