

# **Colorado Advanced Potato Selections**

## **Data Summary**

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Table 1. Summary comparison of advanced selections and named cultivars for yield, grade, maturity, specific gravity, and grade defects - 2006. Advanced selections that may be released for grower evaluation in 2007 are highlighted.

Clone	Usage <sup>1</sup>	# Trials	Total Yield (Cwt/A)	% US #1	Vine Maturity <sup>2</sup>	Specific Gravity	% External Defects <sup>3</sup>	% Hollow Heart <sup>4</sup>
<b>Russets</b>								
CO94035-15RU	Dual	8	415	85.8	2.9	1.082	2.1	3.0
CO95172-3RU	FM	6	505	81.3	3.3	1.088	1.3	0.7
AC96052-1RU	Dual	5	458	87.1	3.4	1.088	1.1	0.2
<b>CO97087-2RU</b>	<b>Dual</b>	<b>4</b>	<b>427</b>	<b>86.0</b>	<b>2.9</b>	<b>1.095</b>	<b>2.2</b>	<b>0.2</b>
Canela Russet	FM	11	386	89.8	3.1	1.096	1.3	0.1
Centennial Russet	FM	35	294	77.4	3.0	1.080	0.8	0.3
Rio Grande Russet	FM	12	525	82.6	3.1	1.086	3.8	0.8
Russet Norkotah	FM	63	368	84.6	1.8	1.078	2.2	0.4
Russet Nugget	Dual	60	440	81.3	3.8	1.093	1.5	0.2
<b>Reds</b>								
Colorado Rose	FM	12	518	83.7	2.8	1.082	3.0	0.3
Rio Colorado	FM	11	405	55.8	1.7	1.087	0.9	0.0
Sangre-S10	FM	18	541	87.5	3.4	1.075	2.3	2.1
<b>Specialties</b>								
VC1009-1W/Y	Spec	6	606	71.2	3.3	1.084	1.9	1.2
VC1123-2W/Y	Spec	5	570	89.0	3.2	1.089	2.5	4.7
<b>AC97521-1R/Y</b>	<b>Spec</b>	<b>4</b>	<b>610</b>	<b>80.4</b>	<b>3.0</b>	<b>1.090</b>	<b>0.5</b>	<b>1.1</b>
<b>CO97226-2R/R</b>	<b>Spec</b>	<b>4</b>	<b>374</b>	<b>40.2</b>	<b>2.3</b>	<b>1.081</b>	<b>0.2</b>	<b>0.0</b>
<b>CO97232-1R/Y</b>	<b>Spec</b>	<b>4</b>	<b>436</b>	<b>72.3</b>	<b>2.1</b>	<b>1.081</b>	<b>0.6</b>	<b>0.0</b>
<b>CO97232-2R/Y</b>	<b>Spec</b>	<b>4</b>	<b>448</b>	<b>87.1</b>	<b>2.7</b>	<b>1.070</b>	<b>0.8</b>	<b>1.1</b>
<b>CO97233-3R/Y</b>	<b>Spec</b>	<b>4</b>	<b>509</b>	<b>74.9</b>	<b>3.5</b>	<b>1.082</b>	<b>4.6</b>	<b>3.5</b>
All Blue	Spec	10	531	63.0	3.0	1.084	0.7	0.2
Mountain Rose	Spec	7	382	68.3	2.1	1.081	1.3	0.0
Purple Majesty	Spec	7	485	63.8	2.0	1.083	0.8	1.7
Yukon Gold	Spec	18	407	88.2	1.8	1.085	2.0	0.7

Table 1 continued on next page

Table 1 (cont'd). Summary comparison of advanced selections and named cultivars for yield, grade, maturity, specific gravity, and grade defects - 2006. Advanced selections that may be released for grower evaluation in 2007 are highlighted.

Clone	Usage <sup>1</sup>	# Trials	Total Yield (Cwt/A)	% US #1	Vine Maturity <sup>2</sup>	Specific Gravity	% External Defects <sup>3</sup>	% Hollow Heart <sup>4</sup>
<i>Chippers</i>								
CO95051-7W	Chip	6	418	86.5	3.4	1.098	1.1	0.3
CO96141-4W	Chip	5	421	89.2	2.8	1.087	1.5	0.0
<b>CO97043-14W</b>	<b>Chip</b>	<b>4</b>	<b>418</b>	<b>85.9</b>	<b>2.9</b>	<b>1.088</b>	<b>1.8</b>	<b>0.5</b>
<b>CO97065-7W</b>	<b>Chip</b>	<b>4</b>	<b>418</b>	<b>87.8</b>	<b>2.6</b>	<b>1.097</b>	<b>0.9</b>	<b>0.2</b>
Atlantic	Chip	31	455	87.2	3.2	1.097	2.8	5.6
Chipeta	Chip	29	533	83.8	3.3	1.089	5.5	0.6

<sup>1</sup>FM=fresh market; Dual= fresh market and processing potential; SPEC=specialty.

<sup>2</sup>Vine maturity: 1=very early; 2=early; 3=medium; 4=late; 5=very late.

<sup>3</sup>Includes defects such as second growth, growth crack, misshapen, and green.

<sup>4</sup>Based on tubers greater than 10 ounces.

Table 2. Detailed data summary for CO94035-15RU.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	8	415	345-478	
Yield US #1 (Cwt/A)	8	356	279-406	
% US #1	8	85.8	80.8-92.1	
Yield >10 oz (Cwt/A)	8	104	54-144	
Yield <4 oz (Cwt/A)	8	50	23-61	
% External Defects <sup>1</sup>	8	2.1	1.7-2.3	
% Hollow Heart <sup>2</sup>	8	3.0	1.0-5.4	
% Stand	8	96	91-99	
Emergence Uniformity	8	3.3	3.0-3.8	
Vine Vigor <sup>3</sup>	8	3.6	2.8-4.0	
Stems/Plant	8	2.8	2.2-3.5	
Vine Size <sup>4</sup>	8	3.4	3.0-3.8	
Vine Maturity <sup>5</sup>	8	2.9	2.8-3.0	
Blackspot <sup>6</sup>	Bud End	7	3.8	2.9-4.9
	Stem End	7	3.4	2.7-4.4
	Average	7	3.6	
Weight Loss <sup>7</sup>	7	4.1	1.2-6.8	
Dormancy <sup>8</sup>	7	93	83-105	
Enzymatic Browning <sup>9</sup>	7	4.6	4.0-5.0	
Specific Gravity	7	1.082	1.074-1.090	
Fry Color <sup>10</sup>	Harvest	7	1.4	1.0-2.0
	Storage	7	1.7	1.0-3.0
Fry Texture <sup>11</sup>	Harvest	7	2.9	2.0-3.0
	Storage	7	3.1	3.0-4.0

Refer to footnotes on page 32.

Table 3. Detailed data summary for CO95172-3RU.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	6	505	415-547	
Yield US #1 (Cwt/A)	6	411	327-450	
% US #1	6	81.3	78.3-84.2	
Yield >10 oz (Cwt/A)	6	98	58-138	
Yield <4 oz (Cwt/A)	6	87	73-103	
% External Defects <sup>1</sup>	6	1.3	0.2-2.2	
% Hollow Heart <sup>2</sup>	6	0.7	0.0-2.1	
% Stand	6	97	94-100	
Emergence Uniformity	6	3.3	2.8-3.8	
Vine Vigor <sup>3</sup>	6	3.0	2.5-3.5	
Stems/Plant	6	2.9	2.3-3.8	
Vine Size <sup>4</sup>	6	3.8	3.5-4.0	
Vine Maturity <sup>5</sup>	6	3.3	3.0-3.5	
Blackspot <sup>6</sup>	Bud End	6	4.6	4.3-5.0
	Stem End	6	4.1	3.5-4.7
	Average	6	4.3	
Weight Loss <sup>7</sup>	6	3.6	1.1-6.2	
Dormancy <sup>8</sup>	6	84	76-90	
Enzymatic Browning <sup>9</sup>	6	3.1	2.4-4.2	
Specific Gravity	6	1.088	1.075-1.096	
Fry Color <sup>10</sup>	Harvest	6	2.3	1.0-4.0
	Storage	6	2.2	1.0-4.0
Fry Texture <sup>11</sup>	Harvest	6	2.7	1.0-4.0
	Storage	6	2.7	1.0-4.0

Refer to footnotes on page 32.

Table 4. Detailed data summary for AC96052-1RU.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	5	458	398-530	
Yield US #1 (Cwt/A)	5	398	357-457	
% US #1	5	87.1	84.2-89.4	
Yield >10 oz (Cwt/A)	5	101	79-117	
Yield <4 oz (Cwt/A)	5	54	37-69	
% External Defects <sup>1</sup>	5	1.1	0.6-1.9	
% Hollow Heart <sup>2</sup>	5	0.2	0.0-0.6	
% Stand	5	91	68-99	
Emergence Uniformity	5	2.8	1.5-3.5	
Vine Vigor <sup>3</sup>	5	3.1	3.0-3.0	
Stems/Plant	5	2.9	2.3-3.9	
Vine Size <sup>4</sup>	5	4.0	3.8-4.5	
Vine Maturity <sup>5</sup>	5	3.4	3.0-3.8	
Blackspot <sup>6</sup>	Bud End	5	3.8	2.7-4.5
	Stem End	5	2.8	1.4-3.3
	Average	5	3.3	
Weight Loss <sup>7</sup>	5	2.7	1.0-4.9	
Dormancy <sup>8</sup>	5	84	70-104	
Enzymatic Browning <sup>9</sup>	5	3.8	3.4-4.2	
Specific Gravity	5	1.088	1.080-1.096	
Fry Color <sup>10</sup>	Harvest	5	0.4	0.0-1.0
	Storage	5	1.0	0.0-2.0
Fry Texture <sup>11</sup>	Harvest	5	3.6	2.0-5.0
	Storage	5	3.4	3.0-4.0

Refer to footnotes on page 32.

Table 5. Detailed data summary for CO97087-2RU.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	4	427	404-446	
Yield US #1 (Cwt/A)	4	367	334-390	
% US #1	4	86.0	82.6-87.6	
Yield >10 oz (Cwt/A)	4	99	77-149	
Yield <4 oz (Cwt/A)	4	50	43-60	
% External Defects <sup>1</sup>	4	2.2	1.7-2.6	
% Hollow Heart <sup>2</sup>	4	0.2	0.0-0.7	
% Stand	4	98	97-98	
Emergence Uniformity	4	3.4	3.0-3.8	
Vine Vigor <sup>3</sup>	4	3.3	3.0-3.8	
Stems/Plant	4	4.0	3.1-5.4	
Vine Size <sup>4</sup>	4	3.4	3.3-3.8	
Vine Maturity <sup>5</sup>	4	2.9	2.8-3.0	
Blackspot <sup>6</sup>	Bud End	4	4.6	4.2-5.0
	Stem End	4	4.2	2.9-4.6
	Average	4	4.4	
Weight Loss <sup>7</sup>	4	2.9	1.1-5.8	
Dormancy <sup>8</sup>	4	90	76-111	
Enzymatic Browning <sup>9</sup>	4	4.0	3.8-4.4	
Specific Gravity	4	1.095	1.089-1.102	
Fry Color <sup>10</sup>	Harvest	4	0.5	0.0-1.0
	Storage	4	1.0	0.0-2.0
Fry Texture <sup>11</sup>	Harvest	4	3.5	3.0-4.0
	Storage	4	3.8	3.0-4.0

Refer to footnotes on page 32.



Table 6. Detailed data summary for Canela Russet.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	11	386	332-468	
Yield US #1 (Cwt/A)	11	347	290-421	
% US #1	11	89.8	86.4-93.5	
Yield >10 oz (Cwt/A)	11	105	63-156	
Yield <4 oz (Cwt/A)	11	35	20-49	
% External Defects <sup>1</sup>	11	1.3	0.0-2.4	
% Hollow Heart <sup>2</sup>	11	0.1	0.0-0.4	
% Stand	11	97	88-99	
Emergence Uniformity	11	3.1	2.5-3.5	
Vine Vigor <sup>3</sup>	11	2.5	2.0-3.0	
Stems/Plant	11	1.9	1.4-2.6	
Vine Size <sup>4</sup>	11	3.8	3.0-4.3	
Vine Maturity <sup>5</sup>	11	3.1	2.8-3.8	
Blackspot <sup>6</sup>	Bud End	11	4.5	3.7-5.0
	Stem End	11	3.7	2.5-5.0
	Average	11	4.1	
Weight Loss <sup>7</sup>	11	3.9	1.3-7.0	
Dormancy <sup>8</sup>	11	147	113-195	
Enzymatic Browning <sup>9</sup>	11	4.3	3.4-5.0	
Specific Gravity	11	1.096	1.081-1.106	
Fry Color <sup>10</sup>	Harvest	11	2.0	1.0-3.0
	Storage	11	2.3	1.0-3.0
Fry Texture <sup>11</sup>	Harvest	11	3.5	3.0-5.0
	Storage	11	3.6	3.0-5.0

Refer to footnotes on page 32.

Table 7. Detailed data summary for Centennial Russet.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	35	294	177-392	
Yield US #1 (Cwt/A)	35	229	129-320	
% US #1	35	77.4	61.9-89.0	
Yield >10 oz (Cwt/A)	35	26	4-72	
Yield <4 oz (Cwt/A)	35	62	32-102	
% External Defects <sup>1</sup>	35	0.8	0.0-3.3	
% Hollow Heart <sup>2</sup>	35	0.3	0.0-3.3	
% Stand	35	97	90-99	
Emergence Uniformity	15	3.2	3.0-3.5	
Vine Vigor <sup>3</sup>	15	2.2	1.0-3.0	
Stems/Plant	27	3.0	2.2-3.6	
Vine Size <sup>4</sup>	15	2.6	2.0-3.0	
Vine Maturity <sup>5</sup>	35	3.0	2.5-3.5	
Blackspot <sup>6</sup>	Bud End	38	4.8	3.7-5.0
	Stem End	38	4.8	4.2-5.0
	Average	41	4.8	
Weight Loss <sup>7</sup>	41	6.4	1.6-9.0	
Dormancy <sup>8</sup>	34	87	57-123	
Enzymatic Browning <sup>9</sup>	36	4.0	3.2-5.0	
Specific Gravity	48	1.080	1.069-1.092	
Fry Color <sup>10</sup>	Harvest	40	3.7	3.0-4.0
	Storage	40	4.0	3.0-5.0
Fry Texture <sup>11</sup>	Harvest	40	2.4	1.0-4.0
	Storage	40	2.2	1.0-3.0

Refer to footnotes on page 32.

Table 8. Detailed data summary for Rio Grande Russet.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	12	525	367-683	
Yield US #1 (Cwt/A)	12	437	255-603	
% US #1	12	82.6	69.2-90.7	
Yield >10 oz (Cwt/A)	12	148	14-275	
Yield <4 oz (Cwt/A)	12	69	33-111	
% External Defects <sup>1</sup>	12	3.8	0.7-8.7	
% Hollow Heart <sup>2</sup>	12	0.8	0.0-4.1	
% Stand	12	99	96-100	
Emergence Uniformity	12	3.6	3.0-4.0	
Vine Vigor <sup>3</sup>	12	3.6	2.0-4.5	
Stems/Plant	12	3.0	2.0-3.6	
Vine Size <sup>4</sup>	12	3.9	3.5-4.5	
Vine Maturity <sup>5</sup>	12	3.1	2.5 -3.5	
Blackspot <sup>6</sup>	Bud End	12	4.6	4.1-5.0
	Stem End	12	4.4	3.0-5.0
	Average	12	4.5	
Weight Loss <sup>7</sup>	12	5.1	1.5-7.1	
Dormancy <sup>8</sup>	12	84	73-106	
Enzymatic Browning <sup>9</sup>	12	4.0	3.2-5.0	
Specific Gravity	12	1.086	1.079-1.094	
Fry Color <sup>10</sup>	Harvest	12	2.3	1.0-4.0
	Storage	12	3.2	3.0-4.0
Fry Texture <sup>11</sup>	Harvest	12	3.2	2.0-4.0
	Storage	12	2.9	2.0-4.0

Refer to footnotes on page 32.

Table 9. Detailed data summary for Russet Norkotah.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	63	368	174-557	
Yield US #1 (Cwt/A)	63	312	144-444	
% US #1	63	84.6	77.8-92.2	
Yield >10 oz (Cwt/A)	63	100	23-212	
Yield <4 oz (Cwt/A)	63	49	22-88	
% External Defects <sup>1</sup>	63	2.2	0.0-5.3	
% Hollow Heart <sup>2</sup>	63	0.4	0.0-2.8	
% Stand	63	98	88-100	
Emergence Uniformity	54	3.3	1.0-4.0	
Vine Vigor <sup>3</sup>	54	2.7	1.0-4.0	
Stems/Plant	59	3.6	2.4-4.8	
Vine Size <sup>4</sup>	54	2.2	1.0-3.3	
Vine Maturity <sup>5</sup>	63	1.8	1.0-3.0	
Blackspot <sup>6</sup>	Bud End	58	4.6	2.9-5.0
	Stem End	58	4.4	3.1-5.0
	Average	59	4.5	
Weight Loss	59	4.1	1.0-7.1	
Dormancy <sup>8</sup>	58	98	78-132	
Enzymatic Browning <sup>9</sup>	58	3.3	2.2-4.8	
Specific Gravity	62	1.078	1.066-1.091	
Fry Color <sup>10</sup>	Harvest	59	2.2	1.0-4.0
	Storage	59	2.6	1.0-4.0
Fry Texture <sup>11</sup>	Harvest	59	2.6	1.0-4.0
	Storage	59	2.6	1.0-4.0

Refer to footnotes on page 32.

Table 10. Detailed data summary for Russet Nugget.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	60	440	284-585	
Yield US #1 (Cwt/A)	60	360	225-518	
% US #1	60	81.3	68.0-93.0	
Yield >10 oz (Cwt/A)	56	92	11-258	
Yield <4 oz (Cwt/A)	60	72	30-133	
% External Defects <sup>1</sup>	60	1.5	0.1-4.3	
% Hollow Heart <sup>2</sup>	60	0.2	0.0-1.9	
% Stand	60	98	96-100	
Emergence Uniformity	50	3.3	2.8-4.0	
Vine Vigor <sup>3</sup>	50	3.3	2.5-4.0	
Stems/Plant	56	3.4	2.1-5.7	
Vine Size <sup>4</sup>	50	4.2	3.8-5.0	
Vine Maturity <sup>5</sup>	60	3.8	3.0-4.3	
Blackspot <sup>6</sup>	Bud End	64	4.7	3.0-5.0
	Stem End	64	4.4	2.1-5.0
	Average	67	4.5	
Weight Loss <sup>7</sup>	67	3.3	1.1-5.5	
Dormancy <sup>8</sup>	62	94	57-144	
Enzymatic Browning <sup>9</sup>	63	4.0	2.8-4.8	
Specific Gravity	69	1.093	1.072-1.110	
Fry Color <sup>10</sup>	Harvest	67	1.6	0.0-3.0
	Storage	67	2.1	1.0-3.0
Fry Texture <sup>11</sup>	Harvest	67	4.0	2.0-5.0
	Storage	67	3.9	2.0-5.0

Refer to footnotes on page 32.

Table 11. Detailed data summary for Colorado Rose.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	12	518	390-641	
Yield US #1 (Cwt/A)	12	435	310-530	
% US #1	12	83.7	75.6-90.7	
Yield >10 oz (Cwt/A)	12	151	69-249	
Yield <4 oz (Cwt/A)	12	66	43-98	
% External Defects <sup>1</sup>	12	3.0	0.2-6.5	
% Hollow Heart <sup>2</sup>	12	0.3	0.0-0.8	
% Stand	12	96	92-100	
Emergence Uniformity	12	3.0	2.5-3.5	
Vine Vigor <sup>3</sup>	12	3.0	2.2-3.8	
Stems/Plant	12	3.5	2.3-4.5	
Vine Size <sup>4</sup>	12	3.4	3.0-4.0	
Vine Maturity <sup>5</sup>	12	2.8	2.0-3.8	
Blackspot <sup>6</sup>	Bud End	13	3.7	2.1-4.8
	Stem End	13	3.7	2.4-5.0
	Average	13	3.7	
Weight Loss <sup>7</sup>	13	6.1	1.4-8.2	
Dormancy <sup>8</sup>	13	63	54-78	
Enzymatic Browning <sup>9</sup>	13	4.2	3.4-4.8	
Specific Gravity	13	1.082	1.071-1.086	
Fry Color <sup>10</sup>	Harvest	13	2.2	1.0-3.0
	Storage	12	2.8	2.0-3.0
Fry Texture <sup>11</sup>	Harvest	13	2.8	2.0-4.0
	Storage	12	2.8	2.0-3.0

Refer to footnotes on page 32.

Table 12. Detailed data summary for Rio Colorado.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	11	405	321-474	
Yield US #1 (Cwt/A)	11	226	115-298	
% US #1	11	55.8	28.4-72.3	
Yield >10 oz (Cwt/A)	11	10	0-22	
Yield <4 oz (Cwt/A)	11	175	110-289	
% External Defects <sup>1</sup>	11	0.9	0.0-2.2	
% Hollow Heart <sup>2</sup>	11	0.0	0.0-0.0	
% Stand	11	96	92-99	
Emergence Uniformity	11	3.4	3.0-4.0	
Vine Vigor <sup>3</sup>	11	3.1	2.8-4.0	
Stems/Plant	11	4.2	2.9-6.4	
Vine Size <sup>4</sup>	11	3.1	2.5-3.8	
Vine Maturity <sup>5</sup>	11	1.7	1.0-3.0	
Blackspot <sup>6</sup>	Bud End	11	3.5	2.1-4.7
	Stem End	11	2.9	1.8-4.2
	Average	11	3.2	
Weight Loss <sup>7</sup>	11	6.5	1.2-10.2	
Dormancy <sup>8</sup>	11	87	70-118	
Enzymatic Browning <sup>9</sup>	11	1.4	1.0-2.4	
Specific Gravity	11	1.087	1.080-1.096	
Fry Color <sup>10</sup>	Harvest	11	1.5	1.0-3.0
	Storage	11	1.7	1.0-4.0
Fry Texture <sup>11</sup>	Harvest	11	2.9	2.0-4.0
	Storage	11	2.7	1.0-3.0

Refer to footnotes on page 32.

Table 13. Detailed data summary for Sangre-S10.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	18	541	410-616	
Yield US #1 (Cwt/A)	18	473	358-548	
% US #1	18	87.5	82.2-92.8	
Yield >10 oz (Cwt/A)	18	194	101-319	
Yield <4 oz (Cwt/A)	18	55.2	34-90	
% External Defects <sup>1</sup>	18	2.3	0.3-5.7	
% Hollow Heart <sup>2</sup>	18	2.1	0.0-8.2	
% Stand	18	96	91-100	
Emergence Uniformity	18	3.0	2.5-3.5	
Vine Vigor <sup>3</sup>	18	2.8	1.8-3.5	
Stems/Plant	18	2.9	1.9-4.3	
Vine Size <sup>4</sup>	18	3.9	3.5-4.5	
Vine Maturity <sup>5</sup>	18	3.4	3.0-4.0	
Blackspot <sup>6</sup>	Bud End	26	3.8	2.0-5.0
	Stem End	26	4.0	2.5-5.0
	Average	26	3.9	
Weight Loss <sup>7</sup>	26	3.1	1.0-4.5	
Dormancy <sup>8</sup>	26	86	56-118	
Enzymatic Browning <sup>9</sup>	26	3.3	2.6-4.8	
Specific Gravity	26	1.075	1.060-1.087	
Fry Color <sup>10</sup>	Harvest	26	3.7	2.0-4.0
	Storage	26	3.9	3.0-4.0
Fry Texture <sup>11</sup>	Harvest	26	2.3	1.0-4.0
	Storage	26	2.3	1.0-3.0

Refer to footnotes on page 32.



Table 14. Detailed data summary for VC1009-1W/Y.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	6	606	553-641	
Yield US #1 (Cwt/A)	6	434	327-508	
% US #1	6	71.2	58.3-79.7	
Yield >10 oz (Cwt/A)	6	95	42-142	
Yield <4 oz (Cwt/A)	6	160	121-216	
% External Defects <sup>1</sup>	6	1.9	0.6-4.3	
% Hollow Heart <sup>2</sup>	6	1.2	0.0-2.6	
% Stand	6	98	96-99	
Emergence Uniformity	6	3.4	3.0-3.8	
Vine Vigor <sup>3</sup>	6	4.2	3.8-4.8	
Stems/Plant	6	4.2	3.1-5.4	
Vine Size <sup>4</sup>	6	4.6	4.0-5.0	
Vine Maturity <sup>5</sup>	6	3.3	3.0-3.5	
Blackspot <sup>6</sup>	Bud End	7	3.9	3.0-4.6
	Stem End	7	3.6	2.6-4.7
	Average	7	3.7	
Weight Loss <sup>7</sup>	7	3.0	1.0-6.8	
Dormancy <sup>8</sup>	7	99	84-132	
Enzymatic Browning <sup>9</sup>	7	3.9	3.2-4.8	
Specific Gravity	8	1.084	1.072-1.092	
Fry Color <sup>10</sup>	Harvest	6	1.3	1.0-2.0
	Storage	6	1.8	1.0-3.0
Fry Texture <sup>11</sup>	Harvest	6	3.0	3.0-3.0
	Storage	6	3.0	2.0-4.0

Refer to footnotes on page 32.

Table 15. Detailed data summary for VC1123-2W/Y.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	5	570	537-662	
Yield US #1 (Cwt/A)	5	507	455-580	
% US #1	5	89.0	84.9-94.9	
Yield >10 oz (Cwt/A)	5	196	151-232	
Yield <4 oz (Cwt/A)	5	50	24-71	
% External Defects <sup>1</sup>	5	2.5	1.0-4.4	
% Hollow Heart <sup>2</sup>	5	4.7	2.5-11.2	
% Stand	5	97	95-98	
Emergence Uniformity	5	3.4	3.0-3.5	
Vine Vigor <sup>3</sup>	5	3.6	3.0- 3.8	
Stems/Plant	5	3.9	2.9-5.8	
Vine Size <sup>4</sup>	5	4.1	3.8-4.3	
Vine Maturity <sup>5</sup>	5	3.2	3.0-3.5	
Blackspot <sup>6</sup>	Bud End	5	3.8	2.9-4.3
	Stem End	5	3.7	2.7-4.7
	Average	5	3.8	
Weight Loss <sup>7</sup>	5	3.1	1.4-5.6	
Dormancy <sup>8</sup>	5	79	63-104	
Enzymatic Browning <sup>9</sup>	5	4.7	4.4-4.8	
Specific Gravity	5	1.089	1.076-1.098	
Fry Color <sup>10</sup>	Harvest	5	1.4	1.0-2.0
	Storage	5	1.6	1.0-2.0
Fry Texture <sup>11</sup>	Harvest	5	3.0	2.0-4.0
	Storage	5	2.8	2.0-3.0

Refer to footnotes on page 32.

Table 16. Detailed data summary for AC97521-1R/Y

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	4	610	519-666	
Yield US #1 (Cwt/A)	4	491	391-548	
% US #1	4	80.4	74.6-88.5	
Yield >10 oz (Cwt/A)	4	92	54-129	
Yield <4 oz (Cwt/A)	4	116	62-166	
% External Defects <sup>1</sup>	4	0.5	0.0-1.2	
% Hollow Heart <sup>2</sup>	4	1.1	0.4-1.9	
% Stand	4	97	93-100	
Emergence Uniformity	4	3.3	2.8-3.8	
Vine Vigor <sup>3</sup>	4	3.9	3.8-4.0	
Stems/Plant	4	4.3	3.5-5.3	
Vine Size <sup>4</sup>	4	4.2	4.0-4.5	
Vine Maturity <sup>5</sup>	4	3.0	3.0-3.0	
Blackspot <sup>6</sup>	Bud End	4	3.5	3.4-3.8
	Stem End	4	3.3	2.3-3.7
	Average	4	3.4	
Weight Loss <sup>7</sup>	4	3.1	1.5-6.4	
Dormancy <sup>8</sup>	4	86	62-108	
Enzymatic Browning <sup>9</sup>	4	3.4	2.8-4.0	
Specific Gravity	4	1.090	1.085-1.096	
Fry Color <sup>10</sup>	Harvest	4	4.0	4.0-4.0
	Storage	4	4.0	4.0-4.0
Fry Texture <sup>11</sup>	Harvest	4	2.5	2.0-3.0
	Storage	4	2.8	2.0-3.0

Refer to footnotes on page 32.

Table 17. Detailed data summary for CO97226-2R/R.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	4	374	336-406	
Yield US #1 (Cwt/A)	4	154	90-224	
% US #1	4	40.2	26.8-55.1	
Yield >10 oz (Cwt/A)	4	1	0-1	
Yield <4 oz (Cwt/A)	4	220	179-253	
% External Defects <sup>1</sup>	4	0.2	0.0-0.7	
% Hollow Heart <sup>2</sup>	4	0.0	0.0-0.0	
% Stand	4	98	96-99	
Emergence Uniformity	4	3.1	3.0-3.3	
Vine Vigor <sup>3</sup>	4	3.1	3.0-3.5	
Stems/Plant	4	3.9	3.0-4.6	
Vine Size <sup>4</sup>	4	3.3	3.0-3.8	
Vine Maturity <sup>5</sup>	4	2.3	1.3-3.0	
Blackspot <sup>6</sup>	Bud End	--	-- --	
	Stem End	--	-- --	
	Average	--	-- --	
Weight Loss <sup>7</sup>	4	4.0	1.9-7.8	
Dormancy <sup>8</sup>	4	63	48-94	
Enzymatic Browning <sup>9</sup>	--	--	-- --	
Specific Gravity	4	1.081	1.078-1.084	
Fry Color <sup>10</sup>	Harvest	--	-- --	
	Storage	--	-- --	
Fry Texture <sup>11</sup>	Harvest	4	3.5	3.0-4.0
	Storage	4	3.8	3.0-4.0

Refer to footnotes on page 32.

Table 18 . Detailed data summary for CO97232-1R/Y.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	4	436	397-481	
Yield US #1 (Cwt/A)	4	316	289-366	
% US #1	4	72.3	68.5-75.3	
Yield >10 oz (Cwt/A)	4	24	20-33	
Yield <4 oz (Cwt/A)	4	117	105-131	
% External Defects <sup>1</sup>	4	0.6	0.1-1.0	
% Hollow Heart <sup>2</sup>	4	0.0	0.0-0.0	
% Stand	4	95	91-99	
Emergence Uniformity	4	3.2	3.0-3.5	
Vine Vigor <sup>3</sup>	4	3.3	3.0-4.0	
Stems/Plant	4	3.9	2.9-4.7	
Vine Size <sup>4</sup>	4	3.1	3.0-3.3	
Vine Maturity <sup>5</sup>	4	2.1	1.3-2.8	
Blackspot <sup>6</sup>	Bud End	4	4.0	2.9-4.8
	Stem End	4	3.2	2.6-3.9
	Average	4	3.6	
Weight Loss <sup>7</sup>	4	4.6	1.6-8.1	
Dormancy <sup>8</sup>	4	60	49-80	
Enzymatic Browning <sup>9</sup>	4	3.7	3.4-3.8	
Specific Gravity	4	1.081	1.077-1.084	
Fry Color <sup>10</sup>	Harvest	4	1.0	1.0-1.0
	Storage	4	1.5	1.0-2.0
Fry Texture <sup>11</sup>	Harvest	4	3.0	2.0-4.0
	Storage	4	3.0	3.0-3.0

Refer to footnotes on page 32.

Table 19. Detailed data summary for CO97232-2R/Y.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	4	448	416-471	
Yield US #1 (Cwt/A)	4	391	354-420	
% US #1	4	87.1	83.4-91.2	
Yield >10 oz (Cwt/A)	4	111	72-148	
Yield <4 oz (Cwt/A)	4	54	36-70	
% External Defects <sup>1</sup>	4	0.8	0.3-1.7	
% Hollow Heart <sup>2</sup>	4	1.1	0.0-2.7	
% Stand	4	92	85-96	
Emergence Uniformity	4	3.1	2.8-3.5	
Vine Vigor <sup>3</sup>	4	3.2	3.0- 3.5	
Stems/Plant	4	3.2	2.6-4.0	
Vine Size <sup>4</sup>	4	2.8	2.5-3.0	
Vine Maturity <sup>5</sup>	4	2.7	2.0-3.0	
Blackspot <sup>6</sup>	Bud End	4	4.4	4.1-5.0
	Stem End	4	4.1	3.5-5.0
	Average	4	4.3	
Weight Loss <sup>7</sup>	4	4.3	1.5-8.8	
Dormancy <sup>8</sup>	4	65	49-94	
Enzymatic Browning <sup>9</sup>	4	4.4	4.0-4.6	
Specific Gravity	4	1.070	1.069-1.072	
Fry Color <sup>10</sup>	Harvest	4	1.5	1.0-2.0
	Storage	4	1.8	1.0-2.0
Fry Texture <sup>11</sup>	Harvest	4	2.5	2.0-3.0
	Storage	4	2.5	2.0-3.0

Refer to footnotes on page 32.

Table 20. Detailed data summary for CO97233-3R/Y.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	4	509	492-524	
Yield US #1 (Cwt/A)	4	383	301-425	
% US #1	4	74.9	61.0-82.4	
Yield >10 oz (Cwt/A)	4	104	68-133	
Yield <4 oz (Cwt/A)	4	105	67-162	
% External Defects <sup>1</sup>	4	4.6	3.2-6.1	
% Hollow Heart <sup>2</sup>	4	3.5	1.0-5.2	
% Stand	4	90	84-92	
Emergence Uniformity	4	3.2	3.0-3.5	
Vine Vigor <sup>3</sup>	4	3.7	3.3- 4.0	
Stems/Plant	4	3.8	2.6-4.6	
Vine Size <sup>4</sup>	4	3.1	3.0-3.3	
Vine Maturity <sup>5</sup>	4	3.5	3.3-4.0	
Blackspot <sup>6</sup>	Bud End	4	4.6	4.2-5.0
	Stem End	4	3.8	3.2-4.4
	Average	4	4.2	
Weight Loss <sup>7</sup>	4	3.0	1.6-6.0	
Dormancy <sup>8</sup>	4	74	62-94	
Enzymatic Browning <sup>9</sup>	4	4.1	3.8-4.4	
Specific Gravity	4	1.082	1.077-1.090	
Fry Color <sup>10</sup>	Harvest	4	1.5	1.0-2.0
	Storage	4	2.3	2.0-3.0
Fry Texture <sup>11</sup>	Harvest	4	3.0	3.0-3.0
	Storage	4	2.8	3.0-3.0

Refer to footnotes on page 32.

Table 21. Detailed data summary for All Blue.

Variable	# Trials	Mean	Range
Total Yield (Cwt/A)	10	531	460-639
Yield US #1 (Cwt/A)	10	336	248-422
% US #1	10	63.0	54.0-74.9
Yield >10 oz (Cwt/A)	10	52	6-90
Yield <4 oz (Cwt/A)	10	191	139-280
% External Defects <sup>1</sup>	10	0.7	0.1-1.8
% Hollow Heart <sup>2</sup>	10	0.2	0.0-1.5
% Stand	10	98	97-100
Emergence Uniformity	10	3.4	2.8-3.8
Vine Vigor <sup>3</sup>	10	3.6	2.8-4.0
Stems/Plant	10	4.4	3.0-6.5
Vine Size <sup>4</sup>	10	3.8	3.0-4.3
Vine Maturity <sup>5</sup>	10	3.0	2.2-3.3
Blackspot <sup>6</sup>	Bud End	---	---
	Stem End	---	---
	Average	---	---
Weight Loss <sup>7</sup>	8	2.5	1.1-4.8
Dormancy <sup>8</sup>	8	106	82-167
Enzymatic Browning <sup>9</sup>	---	---	---
Specific Gravity	8	1.084	1.076-1.090
Fry Color <sup>10</sup>	Harvest	---	---
	Storage	---	---
Fry Texture <sup>11</sup>	Harvest	8	2.8
	Storage	8	2.8

Refer to footnotes on page 32.



Table 22. Detailed data summary for Mountain Rose.

Variable	# Trials	Mean	Range
Total Yield (Cwt/A)	7	382	288-449
Yield US #1 (Cwt/A)	7	265	150-354
% US #1	7	68.3	51.9-78.8
Yield >10 oz (Cwt/A)	7	25	4-63
Yield <4 oz (Cwt/A)	7	112	91-136
% External Defects <sup>1</sup>	7	1.3	0.7-2.4
% Hollow Heart <sup>2</sup>	7	0.0	0.0-0.0
% Stand	7	98	94-100
Emergence Uniformity	7	3.6	3.0-4.3
Vine Vigor <sup>3</sup>	7	2.7	2.0-3.0
Stems/Plant	7	3.6	2.9-4.9
Vine Size <sup>4</sup>	7	2.6	2.3-3.0
Vine Maturity <sup>5</sup>	7	2.1	1.5-3.0
Blackspot <sup>6</sup>	Bud End	--	-- --
	Stem End	--	-- --
	Average	--	-- --
Weight Loss <sup>7</sup>	10	4.1	1.3-6.3
Dormancy <sup>8</sup>	10	105	77-153
Enzymatic Browning <sup>9</sup>	---	---	--- ---
Specific Gravity	10	1.081	1.074-1.086
Fry Color <sup>10</sup>	Harvest	---	--- ---
	Storage	---	--- ---
Fry Texture <sup>11</sup>	Harvest	5	1.0-3.0
	Storage	5	2.0 3.0

Refer to footnotes on page 32.

Table 23. Detailed data summary for Purple Majesty.

Variable	# Trials	Mean	Range
Total Yield (Cwt/A)	7	485	404-606
Yield US #1 (Cwt/A)	7	313	203-401
% US #1	7	63.8	43.6-72.3
Yield >10 oz (Cwt/A)	7	31	14-61
Yield <4 oz (Cwt/A)	7	168	122-244
% External Defects <sup>1</sup>	7	0.8	0.0-1.7
% Hollow Heart <sup>2</sup>	7	1.7	0.5-3.4
% Stand	7	98	94-99
Emergence Uniformity	7	3.4	3.0-4.0
Vine Vigor <sup>3</sup>	7	3.5	2.8-4.0
Stems/Plant	7	4.3	3.5-6.1
Vine Size <sup>4</sup>	7	2.8	2.3-3.0
Vine Maturity <sup>5</sup>	7	2.0	1.5-2.8
Blackspot <sup>6</sup>	Bud End	---	---
	Stem End	---	---
	Average	---	---
Weight Loss <sup>7</sup>	10	1.1	1.1-6.8
Dormancy <sup>8</sup>	10	48	48-85
Enzymatic Browning <sup>9</sup>	---	---	---
Specific Gravity	10	1.083	1.076-1.088
Fry Color <sup>10</sup>	Harvest	---	---
	Storage	---	---
Fry Texture <sup>11</sup>	Harvest	4	1.0-3.0
	Storage	4	2.0 3.0

Refer to footnotes on page 32.

Table 24. Detailed data summary for Yukon Gold.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	18	407	321-513	
Yield US #1 (Cwt/A)	18	359	293-439	
% US #1	18	88.2	81.6-94.3	
Yield >10 oz (Cwt/A)	18	163	93-248	
Yield <4 oz (Cwt/A)	18	39	22-66	
% External Defects <sup>1</sup>	18	2.0	0.6-4.4	
% Hollow Heart <sup>2</sup>	18	0.7	0.0-2.2	
% Stand	18	96	94-100	
Emergence Uniformity	18	3.3	2.5-3.8	
Vine Vigor <sup>3</sup>	18	3.7	3.0-4.0	
Stems/Plant	18	2.3	1.6-3.4	
Vine Size <sup>4</sup>	18	3.0	2.5-3.3	
Vine Maturity <sup>5</sup>	18	1.8	1.0-2.8	
Blackspot <sup>6</sup>	Bud End	22	3.9	2.0-5.0
	Stem End	22	3.6	2.4-5.0
	Average	22	3.8	
Weight Loss <sup>7</sup>	22	2.6	1.0-4.3	
Dormancy <sup>8</sup>	22	91	69-132	
Enzymatic Browning <sup>9</sup>	22	4.4	3.8 5.0	
Specific Gravity	22	1.085	1.079-1.091	
Fry Color <sup>10</sup>	Harvest	22	1.7	1.0-3.0
	Storage	22	2.8	1.0-4.0
Fry Texture <sup>11</sup>	Harvest	22	2.9	1.0-4.0
	Storage	22	2.9	1.0-4.0

Refer to footnotes on page 32.

Table 25. Detailed data summary for CO95051-7W.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	6	418	372-469	
Yield US #1 (Cwt/A)	6	362	295-411	
% US #1	6	86.5	79.1-90.0	
Yield >10 oz (Cwt/A)	6	85	28-145	
Yield <4 oz (Cwt/A)	6	53	37-75	
% External Defects <sup>1</sup>	6	1.1	0.6-1.6	
% Hollow Heart <sup>2</sup>	6	0.3	0.0-0.9	
% Stand	6	94	82-99	
Emergence Uniformity	6	3.1	3.0-3.5	
Vine Vigor <sup>3</sup>	6	3.0	3.0-3.3	
Stems/Plant	6	3.0	2.6-3.9	
Vine Size <sup>4</sup>	6	3.5	3.0-4.0	
Vine Maturity <sup>5</sup>	6	3.4	3.0-4.0	
Blackspot <sup>6</sup>	Bud End	11	4.2	3.1-4.9
	Stem End	11	2.7	1.6-4.0
	Average	11	3.4	
Weight Loss <sup>7</sup>	11	5.4	1.7-11.0	
Dormancy <sup>8</sup>	11	76	62-99	
Enzymatic Browning <sup>9</sup>	11	3.6	1.8-4.4	
Specific Gravity	12	1.098	1.089-1.110	
Chip Color <sup>10</sup>	40	12	3.4	2.5-4.5
	40R	12	2.8	1.5-4.0
	50	12	2.2	1.0-4.0
	50R	12	2.0	1.0-3.5

Refer to footnotes on page 32.

Table 26. Detailed data summary for CO96141-4W.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	5	421	397-460	
Yield US #1 (Cwt/A)	5	375	361-398	
% US #1	5	89.2	81.0-95.0	
Yield >10 oz (Cwt/A)	5	131	104-176	
Yield <4 oz (Cwt/A)	5	39	15-78	
% External Defects <sup>1</sup>	5	1.5	1.0-2.0	
% Hollow Heart <sup>2</sup>	5	0.0	0.0-0.0	
% Stand	5	97	93-99	
Emergence Uniformity	5	3.2	3.0-3.5	
Vine Vigor <sup>3</sup>	5	2.7	2.3-3.0	
Stems/Plant	5	2.6	2.1-3.2	
Vine Size <sup>4</sup>	5	2.7	2.3-3.0	
Vine Maturity <sup>5</sup>	5	2.8	2.5-3.0	
Blackspot <sup>6</sup>	Bud End	9	4.2	2.6-4.9
	Stem End	9	3.4	2.3-5.0
	Average	9	3.8	
Weight Loss <sup>7</sup>	9	3.6	1.2-7.3	
Dormancy <sup>8</sup>	9	87	69-105	
Enzymatic Browning <sup>9</sup>	9	4.1	2.8-5.0	
Specific Gravity	10	1.087	1.081-1.092	
Chip Color <sup>10</sup>	40	10	3.9	2.5-4.5
	40R	10	3.4	2.5-4.0
	50	10	2.4	2.0-3.0
	50R	10	2.2	1.0-3.0

Refer to footnotes on page 32.

Table 27. Detailed data summary for CO97043-14W.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	4	418	351-483	
Yield US #1 (Cwt/A)	4	359	297-428	
% US #1	4	85.9	84.4-88.5	
Yield >10 oz (Cwt/A)	4	129	101-187	
Yield <4 oz (Cwt/A)	4	51	44-64	
% External Defects <sup>1</sup>	4	1.8	0.8-2.4	
% Hollow Heart <sup>2</sup>	4	0.5	0.0-1.3	
% Stand	4	83	69-97	
Emergence Uniformity	4	2.6	1.0-3.5	
Vine Vigor <sup>3</sup>	4	2.9	2.8-3.0	
Stems/Plant	4	2.8	2.5-3.3	
Vine Size <sup>4</sup>	4	2.9	2.8-3.0	
Vine Maturity <sup>5</sup>	4	2.9	2.5-3.3	
Blackspot <sup>6</sup>	Bud End	4	3.9	3.2-4.6
	Stem End	4	3.3	2.4-4.4
	Average	4	3.6	
Weight Loss <sup>7</sup>	4	3.8	1.3-7.7	
Dormancy <sup>8</sup>	4	108	84-160	
Enzymatic Browning <sup>9</sup>	4	4.4	3.8-4.8	
Specific Gravity	4	1.088	1.083-1.093	
Chip Color <sup>10</sup>	40	4	3.9	3.5-4.5
	40R	4	3.2	2.5-4.0
	50	4	1.8	1.0-2.5
	50R	4	1.9	1.5-2.5

Refer to footnotes on page 32.

Table 28. Detailed data summary for CO97065-7W.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	4	418	389-443	
Yield US #1 (Cwt/A)	4	367	337-393	
% US #1	4	87.8	86.4-88.8	
Yield >10 oz (Cwt/A)	4	106	78-123	
Yield <4 oz (Cwt/A)	4	46	41-49	
% External Defects <sup>1</sup>	4	0.9	0.2-1.6	
% Hollow Heart <sup>2</sup>	4	0.2	0.0-0.8	
% Stand	4	96	95-96	
Emergence Uniformity	4	3.1	3.0-3.5	
Vine Vigor <sup>3</sup>	4	3.4	3.3-3.5	
Stems/Plant	4	3.1	2.5-4.2	
Vine Size <sup>4</sup>	4	3.1	3.0-3.3	
Vine Maturity <sup>5</sup>	4	2.6	2.0-3.0	
Blackspot <sup>6</sup>	Bud End	7	4.4	3.9-4.7
	Stem End	7	3.1	1.9-3.9
	Average	7	3.7	
Weight Loss <sup>7</sup>	7	3.0	1.3-6.4	
Dormancy <sup>8</sup>	7	127	90-160	
Enzymatic Browning <sup>9</sup>	7	4.6	4.0-5.0	
Specific Gravity	8	1.097	1.093-1.103	
Chip Color <sup>10</sup>	40	8	4.1	3.0-5.0
	40R	8	3.4	3.0-4.0
	50	8	2.0	1.0-3.0
	50R	8	2.0	1.5-3.0

Refer to footnotes on page 32.

Table 29. Detailed data summary for Atlantic.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	31	455	307-597	
Yield US #1 (Cwt/A)	31	396	265-512	
% US #1	31	87.2	79.0-93.2	
Yield >10 oz (Cwt/A)	31	158	58-290	
Yield <4 oz (Cwt/A)	31	45	19-96	
% External Defects <sup>1</sup>	31	2.8	0.1-9.1	
% Hollow Heart <sup>2</sup>	31	5.6	0.3-16.4	
% Stand	31	96	88-99	
Emergence Uniformity	25	3.6	3.0-4.3	
Vine Vigor <sup>3</sup>	25	3.4	2.8-4.3	
Stems/Plant	31	3.0	2.2-4.2	
Vine Size <sup>4</sup>	25	3.1	2.2-4.0	
Vine Maturity <sup>5</sup>	31	3.2	2.8-4.0	
Blackspot <sup>6</sup>	Bud End	41	3.1	1.8-5.0
	Stem End	41	2.7	1.4-4.3
	Average	42	2.9	
Weight Loss <sup>7</sup>	42	4.9	1.1-7.9	
Dormancy <sup>8</sup>	39	84	62-116	
Enzymatic Browning <sup>9</sup>	40	4.5	3.8-5.0	
Specific Gravity	43	1.097	1.083-1.120	
Chip Color <sup>10</sup>	40	43	3.9	2.0-5.0
	40R	43	3.3	1.5-4.5
	50	43	2.6	1.0-4.0
	50R	43	2.5	1.0-4.0

Refer to footnotes on page 32.



Table 30. Detailed data summary for Chipeta.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	29	533	399-757	
Yield US #1 (Cwt/A)	29	448	306-606	
% US #1	29	83.7	70.6-90.4	
Yield >10 oz (Cwt/A)	29	169	52-388	
Yield <4 oz (Cwt/A)	29	55	22-119	
% External Defects <sup>1</sup>	29	5.5	1.1-13.0	
% Hollow Heart <sup>2</sup>	29	0.6	0.0-4.0	
% Stand	29	98	95-100	
Emergence Uniformity	22	3.5	3.0-4.3	
Vine Vigor <sup>3</sup>	22	4.0	3.2-5.0	
Stems/Plant	28	3.5	2.5-4.9	
Vine Size <sup>4</sup>	22	4.2	4.0-4.5	
Vine Maturity <sup>5</sup>	29	3.3	3.0-4.0	
Blackspot <sup>6</sup>	Bud End	38	3.8	2.2-5.0
	Stem End	38	3.5	1.4-4.9
	Average	40	3.7	
Weight Loss <sup>7</sup>	40	3.7	1.0-8.0	
Dormancy <sup>8</sup>	36	102	77-153	
Enzymatic Browning <sup>9</sup>	37	3.9	2.8-5.0	
Specific Gravity	40	1.089	1.073-1.102	
Chip Color <sup>10</sup>	40	40	4.4	3.0-5.0
	40R	40	3.6	1.5-5.0
	50	40	2.5	1.0-4.0
	50R	40	2.3	1.0-4.0

Refer to footnotes on page 32.

**Footnotes for Tables 2-30:**

- <sup>1</sup>Percent external defects based on the proportion of the total sample weight with significant defects.
- <sup>2</sup>Percent hollow heart calculated as follows: (Weight of tubers >10 ounces with defects/total sample weight) x 100.
- <sup>3</sup>Vine vigor is rated on a 1 to 5 scale, with 5 indicating very vigorous vines.
- <sup>4</sup>Vine size is rated on a 1 to 5 scale, with 5 indicating very large vines.
- <sup>5</sup>Vine maturity is rated on the following basis: 1=very early; 2=early; 3=medium; 4=late; and 5=very late.
- <sup>6</sup>Blackspot was rated on a 1 to 5 scale, with 5 indicating no discoloration.
- <sup>7</sup>Tubers were stored at 45F for approximately 3 months.
- <sup>8</sup>Days from harvest to first visible growth. Tubers were stored at 45F.
- <sup>9</sup>Degree of darkening rated at 60 minutes after slicing fresh lengthwise. Rated on a 1 to 5 scale, with 5 indicating no discoloration.
- <sup>10</sup>Chip color was rated using the Snack Food Association 1-5 scale. Ratings of <2.0 are acceptable. Reconditioned samples were stored at 60F for three weeks. Fry color was rated on a 0 to 4 scale, with 0 being the lightest or best color. Color ratings of <2.0 are acceptable.
- <sup>11</sup>Fry texture was rated on a 1 to 5 scale, with 5 indicating the cooked flesh was dry and mealy and 1 representing a soggy, wet texture.

Figure 1. Photographs of advanced selections and recently named cultivars - 2006.

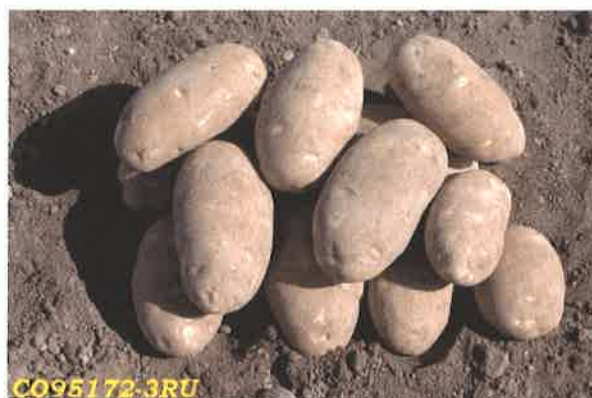


Figure 1 (cont'd). Photographs of advanced selections and recently named cultivars - 2006.



Figure 1 (cont'd). Photographs of advanced selections and recently named cultivars - 2006.



Figure 1 (cont'd). Photographs of advanced selections and recently named cultivars - 2006.

