

# **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.

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>								
AC99375-1RU	Dual	7	500	83	3.1	1.099	1.7	0.0
AC00395-2RU	Dual	6	478	87	3.9	1.101	1.5	0.6
CO03276-5RU	Dual	5	405	64	2.3	1.087	0.7	0.0
Canela Russet	FM	27	352	90	3.2	1.096	1.1	0.1
Centennial Russet	FM	35	294	77	3.0	1.079	0.8	0.3
Crestone Russet	Dual	7	501	89	3.3	1.089	3.6	0.7
Mercury Russet	Dual	7	358	85	1.4	1.084	3.9	0.2
Mesa Russet	Dual	10	419	86	2.9	1.082	1.8	2.5
Rio Grande Russet	FM	22	533	80	3.0	1.086	2.8	0.4
Russet Norkotah	FM	94	371	84	1.8	1.079	2.2	0.4
<b>Specialties</b>								
AC99330-1P/Y	Spec	7	495	58	2.9	1.082	0.0	0.2
CO97232-2R/Y	Spec	7	440	84	2.6	1.071	0.8	1.0
CO97233-3R/Y	Spec	7	477	73	3.3	1.082	4.0	2.3
CO04056-3P/PW	Spec	4	330	27	2.8	1.086	0.1	0.0
CO04063-4R/R	Spec	4	262	19	2.4	1.071	0.2	0.0
CO04067-8R/Y	Spec	4	426	64	2.8	1.083	2.3	0.0
CO04099-3W/Y	Spec	4	379	50	2.7	1.091	0.6	0.3
Mountain Rose	Spec	8	383	68	2.2	1.081	1.1	0.0
Purple Majesty	Spec	23	467	52	2.2	1.085	0.6	0.9
Yukon Gold	Spec	37	402	89	1.9	1.087	1.8	0.5

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.

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>Chippers</b>								
AC01151-5W	Chip	6	465	79	3.1	1.090	2.6	0.2
CO02024-9W	Chip	6	416	79	3.0	1.088	1.5	0.2
CO02033-1W	Chip	6	426	85	2.7	1.098	0.8	1.6
CO02321-4W	Chip	6	423	80	2.8	1.101	3.6	0.0
AC03433-1W	Chip	5	414	80	3.5	1.086	6.8	0.2
CO03243-3W	Chip	5	464	86	3.3	1.089	2.0	0.5
AC00206-2W	Chip	4	324	79	2.8	1.086	2.3	1.7
AC03452-2W	Chip	4	446	85	3.1	1.078	1.4	0.6
Atlantic	Chip	45	459	86	3.2	1.098	2.7	5.1
Chipeta	Chip	42	536	85	3.3	1.090	5.3	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.

Clones discontinued from further grower evaluations are available for exclusive release through CSU. Data summaries for all clones are available on request. Please contact David Holm for further information: AC96052-1RU, AC97521-1R/Y, ATC00293-1W/Y, CO95051-7W, CO97215-2P/P, CO97222-1R/R, CO97226-2R/R, CO97227-2P/PW, CO97232-1R/Y, CO98012-5R, CO99045-1W/Y, CO99053-4RU, CO99076-6R, CO99256-2R, CO00188-4W, CO00197-3W, CO00270-7W, CO00277-2R, CO00291-5R, CO00405-1RF, CO00412-5W/Y, and CO00415-1RF.

Table 2. Detailed data summary for AC99375-1RU.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	7	500	435-545	
Yield US #1 (Cwt/A)	7	415	377-457	
% US #1	7	83	77-91	
Yield >10 oz (Cwt/A)	7	105	74-148	
Yield <4 oz (Cwt/A)	7	75	32-118	
% External Defects <sup>1</sup>	7	1.7	0.3-3.5	
% Hollow Heart <sup>2</sup>	7	0.0	0.0-0.2	
% Stand	7	97	94-100	
Emergence Uniformity	7	3.4	2.8-4.3	
Vine Vigor <sup>3</sup>	7	3.7	2.5-4.8	
Stems/Plant	7	3.7	2.1-6.3	
Vine Size <sup>4</sup>	7	4.4	3.0-5.0	
Vine Type <sup>5</sup>	7	3.1	3.0-3.5	
Vine Maturity <sup>6</sup>	7	3.1	3.0-3.5	
Blackspot <sup>7</sup>	Bud End	8	4.6	3.8-5.0
	Stem End	8	4.4	3.7-5.0
	Average	8	4.5	
Weight Loss <sup>8</sup>	8	2.3	1.4-2.8	
Dormancy <sup>9</sup>	8	94	82-132	
Enzymatic Browning <sup>10</sup>	8	2.8	1.4-4.6	
Specific Gravity	8	1.099	1.090-1.104	
Fry Color <sup>11</sup>	Harvest	8	0.8	0.0-2.0
	Storage	8	1.1	0.0-2.0
Fry Texture <sup>12</sup>	Harvest	8	3.9	3.0-5.0
	Storage	8	4.0	3.0-5.0

Refer to footnotes on page 33.

Table 3. Detailed data summary for AC00395-2RU.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	6	478	393-574	
Yield US #1 (Cwt/A)	6	412	344-478	
% US #1	6	87	80-91	
Yield >10 oz (Cwt/A)	6	110	73-129	
Yield <4 oz (Cwt/A)	6	59	28-97	
% External Defects <sup>1</sup>	6	1.5	0.0-3.0	
% Hollow Heart <sup>2</sup>	6	0.6	0.0-2.0	
% Stand	6	99	98-100	
Emergence Uniformity	6	3.3	2.8-3.8	
Vine Vigor <sup>3</sup>	6	3.4	2.3-4.3	
Stems/Plant	6	2.8	1.9-3.4	
Vine Size <sup>4</sup>	6	4.7	4.3-5.0	
Vine Type <sup>5</sup>	6	3.2	3.0-4.0	
Vine Maturity <sup>6</sup>	6	3.9	3.8-4.0	
Blackspot <sup>7</sup>	Bud End	6	4.9	4.6-5.0
	Stem End	6	4.9	4.7-5.0
	Average	6	4.9	
Weight Loss <sup>8</sup>	6	2.2	2.0-2.3	
Dormancy <sup>9</sup>	6	102	70-155	
Enzymatic Browning <sup>10</sup>	6	4.7	4.6-4.8	
Specific Gravity	7	1.101	1.092-1.108	
Fry Color <sup>11</sup>	Harvest	6	1.8	1.0-3.0
	Storage	6	2.5	2.0-3.0
Fry Texture <sup>12</sup>	Harvest	6	4.0	3.0-5.0
	Storage	6	4.0	3.0-5.0

Refer to footnotes on page 33.

Table 4. Detailed data summary for CO03276-5RU.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	5	405	310-494	
Yield US #1 (Cwt/A)	5	263	175-327	
% US #1	5	64	54-75	
Yield >10 oz (Cwt/A)	5	40	10-72	
Yield <4 oz (Cwt/A)	5	139	103-217	
% External Defects <sup>1</sup>	5	0.7	0.2-1.8	
% Hollow Heart <sup>2</sup>	5	0.0	0.0-0.0	
% Stand	5	97	93-100	
Emergence Uniformity	5	3.3	3.0-3.5	
Vine Vigor <sup>3</sup>	5	3.6	2.8-4.8	
Stems/Plant	5	3.8	2.5-5.4	
Vine Size <sup>4</sup>	5	3.4	2.8-4.0	
Vine Type <sup>5</sup>	5	3.0	2.8-3.0	
Vine Maturity <sup>6</sup>	5	2.3	2.0-3.0	
Blackspot <sup>7</sup>	Bud End	5	4.4	3.4-5.0
	Stem End	5	4.3	3.6-5.0
	Average	5	4.4	
Weight Loss <sup>8</sup>	5	2.0	1.6-2.2	
Dormancy <sup>9</sup>	5	90	70-98	
Enzymatic Browning <sup>10</sup>	5	3.8	3.0-4.8	
Specific Gravity	6	1.087	1.085-1.088	
Fry Color <sup>11</sup>	Harvest	5	2.0	1.0-3.0
	Storage	5	2.4	1.0-3.0
Fry Texture <sup>12</sup>	Harvest	5	3.2	3.0-4.0
	Storage	5	3.2	3.0-4.0

Refer to footnotes on page 33.

Table 5. Detailed data summary for Canela Russet.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	27	352	214-468	
Yield US #1 (Cwt/A)	27	316	182-421	
% US #1	27	90	77-94	
Yield >10 oz (Cwt/A)	27	104	28-203	
Yield <4 oz (Cwt/A)	27	31	14-61	
% External Defects <sup>1</sup>	27	1.1	0.0-6.0	
% Hollow Heart <sup>2</sup>	27	0.1	0.0-0.9	
% Stand	26	95	82-99	
Emergence Uniformity	26	2.8	1.5-3.8	
Vine Vigor <sup>3</sup>	26	2.5	1.0-3.3	
Stems/Plant	26	1.9	1.1-4.2	
Vine Size <sup>4</sup>	26	3.8	3.0-5.0	
Vine Type <sup>5</sup>	26	3.6	3.0 4.3	
Vine Maturity <sup>6</sup>	26	3.2	2.8-3.8	
Blackspot <sup>7</sup>	Bud End	29	4.8	3.7-5.0
	Stem End	29	4.3	2.5-5.0
	Average	29	4.5	
Weight Loss <sup>8</sup>	29	3.4	1.3-7.0	
Dormancy <sup>9</sup>	29	145	112-195	
Enzymatic Browning <sup>10</sup>	29	4.4	3.4-5.0	
Specific Gravity	34	1.096	1.075-1.111	
Fry Color <sup>11</sup>	Harvest	29	1.7	0.0-3.0
	Storage	29	2.1	0.0-4.0
Fry Texture <sup>12</sup>	Harvest	29	3.8	3.0-5.0
	Storage	29	3.8	3.0-5.0

Refer to footnotes on page 33.



Table 6. 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	62-89	
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 Type <sup>5</sup>	15	3.2	2.8-3.8	
Vine Maturity <sup>6</sup>	35	3.0	2.5-3.5	
Blackspot <sup>7</sup>	Bud End	45	4.8	3.7-5.0
	Stem End	45	4.8	4.2-5.0
	Average	48	4.8	
Weight Loss <sup>8</sup>	48	6.1	1.6-9.0	
Dormancy <sup>9</sup>	41	88	57-123	
Enzymatic Browning <sup>10</sup>	43	4.0	3.2-5.0	
Specific Gravity	56	1.079	1.068-1.092	
Fry Color <sup>11</sup>	Harvest	47	3.7	3.0-4.0
	Storage	47	3.9	3.0-5.0
Fry Texture <sup>12</sup>	Harvest	47	2.3	1.0-4.0
	Storage	47	2.3	1.0-3.0

Refer to footnotes on page 33.

Table 7. Detailed data summary for Crestone Russet.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	7	501	454-559	
Yield US #1 (Cwt/A)	7	447	384-517	
% US #1	7	89	85-93	
Yield >10 oz (Cwt/A)	7	233	159-299	
Yield <4 oz (Cwt/A)	7	37	22-58	
% External Defects <sup>1</sup>	7	3.6	0.7-8.9	
% Hollow Heart <sup>2</sup>	7	0.7	0.0-2.9	
% Stand	7	99	95-100	
Emergence Uniformity	7	3.2	3.0-4.0	
Vine Vigor <sup>3</sup>	7	3.3	2.8-3.8	
Stems/Plant	7	3.9	2.5-5.2	
Vine Size <sup>4</sup>	7	4.0	3.8-4.3	
Vine Type <sup>5</sup>	7	3.1	2.8 3.8	
Vine Maturity <sup>6</sup>	7	3.3	3.0-4.0	
Blackspot <sup>7</sup>	Bud End	8	4.8	4.3-5.0
	Stem End	8	4.3	2.8-5.0
	Average	8	4.5	
Weight Loss <sup>8</sup>	8	2.7	1.2-7.6	
Dormancy <sup>9</sup>	8	84	54-132	
Enzymatic Browning <sup>10</sup>	8	4.0	3.2-4.6	
Specific Gravity	8	1.089	1.077-1.096	
Fry Color <sup>11</sup>	Harvest	8	1.0	0.0-2.0
	Storage	8	1.9	1.0-3.0
Fry Texture <sup>12</sup>	Harvest	8	3.4	3.0-4.0
	Storage	8	3.3	2.0-4.0

Refer to footnotes on page 33.

Table 8. Detailed data summary for Mercury Russet.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	7	358	308-409	
Yield US #1 (Cwt/A)	7	304	271-377	
% US #1	7	85	76-92	
Yield >10 oz (Cwt/A)	7	80	48-121	
Yield <4 oz (Cwt/A)	7	40	25-82	
% External Defects <sup>1</sup>	7	3.9	0.0-9.1	
% Hollow Heart <sup>2</sup>	7	0.2	0.0-0.7	
% Stand	7	99	97-100	
Emergence Uniformity	7	3.2	3.0-3.5	
Vine Vigor <sup>3</sup>	7	3.4	2.8-4.0	
Stems/Plant	7	3.4	2.6-4.2	
Vine Size <sup>4</sup>	7	2.4	2.3-2.5	
Vine Type <sup>5</sup>	9	2.4	2.0-3.0	
Vine Maturity <sup>6</sup>	7	1.4	1.0-2.0	
Blackspot <sup>7</sup>	Bud End	8	4.6	3.8-5.0
	Stem End	8	4.8	4.5-5.0
	Average	8	4.7	
Weight Loss <sup>8</sup>	8	3.5	1.4-5.7	
Dormancy <sup>9</sup>	8	62	49-77	
Enzymatic Browning <sup>10</sup>	8	3.8	3.4-4.6	
Specific Gravity	8	1.084	1.078-1.088	
Fry Color <sup>11</sup>	Harvest	8	0.4	0.0-1.0
	Storage	8	1.4	1.0-2.0
Fry Texture <sup>12</sup>	Harvest	8	3.0	2.0-4.0
	Storage	8	3.3	3.0-4.0

Refer to footnotes on page 33.

Table 9. Detailed data summary for Mesa Russet.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	10	419	345 -478	
Yield US #1 (Cwt/A)	10	360	279 -406	
% US #1	10	86	81 -92	
Yield >10 oz (Cwt/A)	10	97	54 -144	
Yield <4 oz (Cwt/A)	10	51	23 -61	
% External Defects <sup>1</sup>	10	1.8	0.2 -2.3	
% Hollow Heart <sup>2</sup>	10	2.5	0.0 -5.4	
% Stand	10	96	91 -99	
Emergence Uniformity	10	3.3	3.0 -3.8	
Vine Vigor <sup>3</sup>	10	3.7	2.8 -4.0	
Stems/Plant	10	3.0	2.2 -3.7	
Vine Size <sup>4</sup>	10	3.5	3.0 -4.0	
Vine Type <sup>5</sup>	10	3.0	2.3 -3.8	
Vine Maturity <sup>6</sup>	10	2.9	2.8 -3.0	
Blackspot <sup>7</sup>	Bud End	12	4.0	2.9 -5.0
	Stem End	12	3.8	2.7 - 5.0
	Average	12	3.9	
Weight Loss <sup>8</sup>	12	3.6	1.2 -6.8	
Dormancy <sup>9</sup>	12	94	83 -105	
Enzymatic Browning <sup>10</sup>	12	4.6	4.0 -5.0	
Specific Gravity	12	1.082	1.074 -1.090	
Fry Color <sup>11</sup>	Harvest	12	1.3	0.0 -2.0
	Storage	12	1.8	1.0 -4.0
Fry Texture <sup>12</sup>	Harvest	12	2.9	2.0 -4.0
	Storage	12	3.1	3.0 -4.0

Refer to footnotes on page 33.

Table 10. Detailed data summary for Rio Grande Russet.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	22	533	367-683	
Yield US #1 (Cwt/A)	22	426	255-603	
% US #1	22	80	65-91	
Yield >10 oz (Cwt/A)	22	123	14-275	
Yield <4 oz (Cwt/A)	22	92	33-202	
% External Defects <sup>1</sup>	22	2.8	0.1-8.7	
% Hollow Heart <sup>2</sup>	22	0.4	0.0-4.1	
% Stand	22	99	96-100	
Emergence Uniformity	22	3.5	3.0-4.0	
Vine Vigor <sup>3</sup>	22	3.6	2.0-4.5	
Stems/Plant	22	3.4	2.0-4.8	
Vine Size <sup>4</sup>	22	4.1	3.5-5.0	
Vine Type <sup>5</sup>	22	3.1	3.0-3.5	
Vine Maturity <sup>6</sup>	22	3.0	2.5 -3.5	
Blackspot <sup>7</sup>	Bud End	30	4.8	4.1-5.0
	Stem End	30	4.6	3.0-5.0
	Average	30	4.7	
Weight Loss <sup>8</sup>	30	3.8	1.5-7.1	
Dormancy <sup>9</sup>	30	92	68-123	
Enzymatic Browning <sup>10</sup>	30	3.9	3.0-5.0	
Specific Gravity	31	1.086	1.067-1.094	
Fry Color <sup>11</sup>	Harvest	30	2.3	1.0-4.0
	Storage	30	2.8	2.0-4.0
Fry Texture <sup>12</sup>	Harvest	30	3.1	2.0-4.0
	Storage	30	3.0	2.0-4.0

Refer to footnotes on page 33.

Table 11. Detailed data summary for Russet Norkotah.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	94	371	159-557	
Yield US #1 (Cwt/A)	94	312	101-480	
% US #1	94	84	59-94	
Yield >10 oz (Cwt/A)	94	105	10-247	
Yield <4 oz (Cwt/A)	94	51	13-131	
% External Defects <sup>1</sup>	94	2.2	0.0-5.3	
% Hollow Heart <sup>2</sup>	94	0.4	0.0-2.8	
% Stand	93	98	88-100	
Emergence Uniformity	84	3.2	1.0-4.0	
Vine Vigor <sup>3</sup>	84	2.9	1.0-4.0	
Stems/Plant	89	3.7	2.3-5.7	
Vine Size <sup>4</sup>	84	2.4	1.0-4.0	
Vine Type <sup>5</sup>	84	2.7	2.0-3.5	
Vine Maturity <sup>6</sup>	93	1.8	1.0-3.0	
Blackspot <sup>7</sup>	Bud End	89	4.7	2.9-5.0
	Stem End	89	4.4	2.6-5.0
	Average	90	4.5	
Weight Loss <sup>8</sup>	90	3.6	1.0-7.1	
Dormancy <sup>9</sup>	89	98	70-140	
Enzymatic Browning <sup>10</sup>	89	3.4	2.2-4.8	
Specific Gravity	97	1.079	1.066-1.091	
Fry Color <sup>11</sup>	Harvest	90	2.1	1.0-4.0
	Storage	90	2.4	1.0-4.0
Fry Texture <sup>12</sup>	Harvest	90	2.7	1.0-4.0
	Storage	90	2.7	1.0-4.0

Refer to footnotes on page 33.

Table 12. Detailed data summary for AC99330-1P/Y.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	7	495	441-531	
Yield US #1 (Cwt/A)	7	288	208-376	
% US #1	7	58	43-74	
Yield >10 oz (Cwt/A)	7	24	3-69	
Yield <4 oz (Cwt/A)	7	207	129-271	
% External Defects <sup>1</sup>	7	0.0	0.0-0.2	
% Hollow Heart <sup>2</sup>	7	0.2	0.0-0.6	
% Stand	7	98	96-99	
Emergence Uniformity	7	3.2	2.8-3.8	
Vine Vigor <sup>3</sup>	7	3.7	3.0-4.5	
Stems/Plant	7	4.9	3.0-6.7	
Vine Size <sup>4</sup>	7	3.4	2.8-4.0	
Vine Type <sup>5</sup>	7	2.5	2.0-3.0	
Vine Maturity <sup>6</sup>	7	2.9	2.0-3.0	
Blackspot <sup>7</sup>	Bud End	8	4.7	4.0-5.0
	Stem End	8	4.4	3.7-4.8
	Average	8	4.6	
Weight Loss <sup>8</sup>	8	3.3	1.4-5.0	
Dormancy <sup>9</sup>	8	60	49-66	
Enzymatic Browning <sup>10</sup>	8	2.9	2.2-3.6	
Specific Gravity	8	1.082	1.075-1.090	
Fry Color <sup>11</sup>	Harvest	8	1.9	1.0-4.0
	Storage	8	3.1	3.0-4.0
Fry Texture <sup>12</sup>	Harvest	8	2.9	2.0-4.0
	Storage	8	3.1	3.0-4.0

Refer to footnotes on page 33.

Table 13. Detailed data summary for CO97232-2R/Y.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	7	440	416-471	
Yield US #1 (Cwt/A)	7	371	318-420	
% US #1	7	84	76-91	
Yield >10 oz (Cwt/A)	7	89	43-148	
Yield <4 oz (Cwt/A)	7	66	36-100	
% External Defects <sup>1</sup>	7	0.8	0.3-1.7	
% Hollow Heart <sup>2</sup>	7	1.0	0.0-2.7	
% Stand	7	93	85-99	
Emergence Uniformity	7	3.1	2.8-3.5	
Vine Vigor <sup>3</sup>	7	3.3	3.0- 4.0	
Stems/Plant	7	3.3	2.6-4.0	
Vine Size <sup>4</sup>	7	2.6	2.0-3.0	
Vine Type <sup>5</sup>	7	2.0	2.0-2.0	
Vine Maturity <sup>6</sup>	7	2.6	2.0-3.0	
Blackspot <sup>7</sup>	Bud End	8	4.7	4.1-5.0
	Stem End	8	4.4	3.5-5.0
	Average	8	4.5	
Weight Loss <sup>8</sup>	8	4.2	1.5-8.8	
Dormancy <sup>9</sup>	8	69	49-94	
Enzymatic Browning <sup>10</sup>	8	4.4	4.0-5.0	
Specific Gravity	8	1.071	1.069-1.075	
Fry Color <sup>11</sup>	Harvest	8	1.1	0.0-2.0
	Storage	8	1.8	1.0-2.0
Fry Texture <sup>12</sup>	Harvest	8	2.1	1.0-3.0
	Storage	8	2.4	2.0-3.0

Refer to footnotes on page 33.



Table 14. Detailed data summary for CO97233-3R/Y.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	7	477	409-524	
Yield US #1 (Cwt/A)	7	351	294-425	
% US #1	7	73	61-82	
Yield >10 oz (Cwt/A)	7	83	42-133	
Yield <4 oz (Cwt/A)	7	108	67-162	
% External Defects <sup>1</sup>	7	4.0	2.5-6.1	
% Hollow Heart <sup>2</sup>	7	2.3	0.3-5.2	
% Stand	7	90	80-95	
Emergence Uniformity	7	3.1	3.0-3.5	
Vine Vigor <sup>3</sup>	7	3.6	3.3- 4.0	
Stems/Plant	7	3.8	2.6-4.6	
Vine Size <sup>4</sup>	7	3.0	2.8-3.3	
Vine Type <sup>5</sup>	7	2.0	2.0-2.3	
Vine Maturity <sup>6</sup>	7	3.3	2.8-4.0	
Blackspot <sup>7</sup>	Bud End	8	4.7	4.2-5.0
	Stem End	8	4.0	3.2-5.0
	Average	8	4.4	
Weight Loss <sup>8</sup>	8	3.1	1.6-6.0	
Dormancy <sup>9</sup>	8	74	61-94	
Enzymatic Browning <sup>10</sup>	8	4.1	3.6-4.6	
Specific Gravity	8	1.082	1.077-1.090	
Fry Color <sup>11</sup>	Harvest	8	1.3	0.0-2.0
	Storage	8	2.0	1.0-3.0
Fry Texture <sup>12</sup>	Harvest	8	2.8	2.0-3.0
	Storage	8	2.6	2.0-3.0

Refer to footnotes on page 33.

Table 15. Detailed data summary for CO04056-3P/PW.

Variable	# Trials	Mean	Range
Total Yield (Cwt/A)	4	330	281-421
Yield US #1 (Cwt/A)	4	95	61-184
% US #1	4	27	20-44
Yield >10 oz (Cwt/A)	4	1	0-5
Yield <4 oz (Cwt/A)	4	235	216-249
% External Defects <sup>1</sup>	4	0.1	0.0-0.3
% Hollow Heart <sup>2</sup>	4	0.0	0.0-0.0
% Stand	4	98	97-99
Emergence Uniformity	4	2.5	1.8-3.0
Vine Vigor <sup>3</sup>	4	2.7	1.8-3.3
Stems/Plant	4	4.2	3.6-5.6
Vine Size <sup>4</sup>	4	3.6	3.0-4.0
Vine Type <sup>5</sup>	4	3.0	3.0-3.0
Vine Maturity <sup>6</sup>	4	2.8	2.0-3.0
Blackspot <sup>7</sup>	Bud End	---	---
	Stem End	---	---
	Average	---	---
Weight Loss <sup>8</sup>	4	2.4	1.7-3.1
Dormancy <sup>9</sup>	4	86	70-102
Enzymatic Browning <sup>10</sup>	---	---	---
Specific Gravity	5	1.086	1.077-1.094
Fry Color <sup>11</sup>	Harvest	---	---
	Storage	---	---
Fry Texture <sup>12</sup>	Harvest	4	2.8
	Storage	4	3.0

Refer to footnotes on page 33.

Table 16. Detailed data summary for CO04063-4R/R.

Variable	# Trials	Mean	Range
Total Yield (Cwt/A)	4	262	230-303
Yield US #1 (Cwt/A)	4	52	28-77
% US #1	4	19	12-25
Yield >10 oz (Cwt/A)	4	1	0-2
Yield <4 oz (Cwt/A)	4	211	189-227
% External Defects <sup>1</sup>	4	0.2	0.0-0.6
% Hollow Heart <sup>2</sup>	4	0.0	0.0-0.0
% Stand	4	99	98-100
Emergence Uniformity	4	1.9	1.5-2.8
Vine Vigor <sup>3</sup>	4	2.8	2.0-3.3
Stems/Plant	4	5.3	4.4-7.0
Vine Size <sup>4</sup>	4	2.5	2.3-2.8
Vine Type <sup>5</sup>	4	2.9	2.8-3.0
Vine Maturity <sup>6</sup>	4	2.4	2.0-3.0
Blackspot <sup>7</sup>	Bud End	---	---
	Stem End	---	---
	Average	---	---
Weight Loss <sup>8</sup>	4	4.2	2.7-5.5
Dormancy <sup>9</sup>	4	66	56-81
Enzymatic Browning <sup>10</sup>	---	---	---
Specific Gravity	5	1.071	1.068-1.075
Fry Color <sup>11</sup>	Harvest	---	---
	Storage	---	---
Fry Texture <sup>12</sup>	Harvest	4	1.8
	Storage	4	2.0

Refer to footnotes on page 33.

Table 17. Detailed data summary for CO04067-8R/Y.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	4	426	369-504	
Yield US #1 (Cwt/A)	4	277	221-372	
% US #1	4	64	60-74	
Yield >10 oz (Cwt/A)	4	21	10-46	
Yield <4 oz (Cwt/A)	4	139	121-158	
% External Defects <sup>1</sup>	4	2.3	1.5-3.9	
% Hollow Heart <sup>2</sup>	4	0.0	0.0-0.0	
% Stand	4	95	92-96	
Emergence Uniformity	4	3.0	2.8-3.3	
Vine Vigor <sup>3</sup>	4	3.1	2.8-3.3	
Stems/Plant	4	4.6	3.3-6.6	
Vine Size <sup>4</sup>	4	4.1	4.0-4.3	
Vine Type <sup>5</sup>	4	3.1	3.0-3.5	
Vine Maturity <sup>6</sup>	4	2.8	2.3-3.0	
Blackspot <sup>7</sup>	Bud End	4	4.6	4.3-4.8
	Stem End	4	2.9	2.6-3.1
	Average	4	3.7	
Weight Loss <sup>8</sup>	4	3.2	1.5-5.1	
Dormancy <sup>9</sup>	4	59	49-74	
Enzymatic Browning <sup>10</sup>	4	3.6	2.8-4.6	
Specific Gravity	5	1.083	1.079-1.089	
Fry Color <sup>11</sup>	Harvest	4	1.3	1.0-2.0
	Storage	4	1.0	1.0-1.0
Fry Texture <sup>12</sup>	Harvest	4	2.5	2.0-3.0
	Storage	4	2.5	2.0-3.0

Refer to footnotes on page 33.

Table 18. Detailed data summary for CO04099-3W/Y.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	4	379	335-429	
Yield US #1 (Cwt/A)	4	191	168-246	
% US #1	4	50	44-58	
Yield >10 oz (Cwt/A)	4	6	2-11	
Yield <4 oz (Cwt/A)	4	186	160-214	
% External Defects <sup>1</sup>	4	0.6	0.0-1.1	
% Hollow Heart <sup>2</sup>	4	0.3	0.0-0.6	
% Stand	4	98	96-100	
Emergence Uniformity	4	3.5	3.3-3.8	
Vine Vigor <sup>3</sup>	4	3.2	3.0-3.5	
Stems/Plant	4	4.5	3.3-5.7	
Vine Size <sup>4</sup>	4	3.6	3.0-4.0	
Vine Type <sup>5</sup>	4	2.9	2.8-3.0	
Vine Maturity <sup>6</sup>	4	2.7	1.8-3.0	
Blackspot <sup>7</sup>	Bud End	4	4.3	4.0-4.6
	Stem End	4	3.6	2.3-4.6
	Average	4	3.9	
Weight Loss <sup>8</sup>	4	1.9	1.7-2.4	
Dormancy <sup>9</sup>	4	80	63-116	
Enzymatic Browning <sup>10</sup>	4	3.7	2.8-4.6	
Specific Gravity	5	1.091	1.085-1.095	
Fry Color <sup>11</sup>	Harvest	4	1.3	1.0-2.0
	Storage	4	0.8	0.0-1.0
Fry Texture <sup>12</sup>	Harvest	4	3.8	3.0-4.0
	Storage	4	3.8	3.0-5.0

Refer to footnotes on page 33.

Table 18. Detailed data summary for Mountain Rose.

Variable	# Trials	Mean	Range
Total Yield (Cwt/A)	8	383	288-449
Yield US #1 (Cwt/A)	8	262	150-354
% US #1	8	68	52-79
Yield >10 oz (Cwt/A)	8	23	4-63
Yield <4 oz (Cwt/A)	8	116	91-148
% External Defects <sup>1</sup>	8	1.1	0.0-2.4
% Hollow Heart <sup>2</sup>	8	0.0	0.0-0.0
% Stand	8	98	94-100
Emergence Uniformity	8	3.6	3.0-4.3
Vine Vigor <sup>3</sup>	8	2.7	2.0-3.0
Stems/Plant	8	3.7	2.9-4.9
Vine Size <sup>4</sup>	8	2.7	2.3-3.0
Vine Type <sup>5</sup>	8	2.9	2.5-3.0
Vine Maturity <sup>6</sup>	8	2.2	1.5-3.0
Blackspot <sup>7</sup>	Bud End	---	---
	Stem End	---	---
	Average	---	---
Weight Loss <sup>8</sup>	11	4.1	1.3-6.3
Dormancy <sup>9</sup>	11	102	77-153
Enzymatic Browning <sup>10</sup>	---	---	---
Specific Gravity	11	1.081	1.074-1.086
Fry Color <sup>11</sup>	Harvest	---	---
	Storage	---	---
Fry Texture <sup>12</sup>	Harvest	6	2.5
	Storage	6	2.7

Refer to footnotes on page 33.

Table 20. Detailed data summary for Purple Majesty.

Variable	# Trials	Mean	Range
Total Yield (Cwt/A)	23	467	251-606
Yield US #1 (Cwt/A)	23	252	57-401
% US #1	23	52	23-72
Yield >10 oz (Cwt/A)	23	26	0-61
Yield <4 oz (Cwt/A)	23	212	122-326
% External Defects <sup>1</sup>	23	0.6	0.0-1.7
% Hollow Heart <sup>2</sup>	23	0.9	0.0-3.4
% Stand	23	97	92-100
Emergence Uniformity	23	3.4	2.5-4.0
Vine Vigor <sup>3</sup>	23	3.4	2.3-4.5
Stems/Plant	23	4.4	3.2-6.1
Vine Size <sup>4</sup>	23	3.1	2.3-4.0
Vine Type <sup>5</sup>	23	2.8	2.3-3.0
Vine Maturity <sup>6</sup>	23	2.2	1.5-3.0
Blackspot <sup>7</sup>	Bud End	---	---
	Stem End	---	---
	Average	---	---
Weight Loss <sup>8</sup>	29	3.6	1.1-6.8
Dormancy <sup>9</sup>	29	62	42-85
Enzymatic Browning <sup>10</sup>	---	---	---
Specific Gravity	32	1.085	1.074-1.094
Fry Color <sup>11</sup>	Harvest	---	---
	Storage	---	---
Fry Texture <sup>12</sup>	Harvest	24	2.6
	Storage	24	2.8

Refer to footnotes on page 33.

Table 21. Detailed data summary for Yukon Gold.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	37	402	308-513	
Yield US #1 (Cwt/A)	37	357	257-444	
% US #1	37	89	78-94	
Yield >10 oz (Cwt/A)	37	153	55-248	
Yield <4 oz (Cwt/A)	37	37	22-66	
% External Defects <sup>1</sup>	37	1.8	0.0-5.6	
% Hollow Heart <sup>2</sup>	37	0.5	0.0-2.2	
% Stand	37	96	90-104	
Emergence Uniformity	37	3.4	2.5-5.0	
Vine Vigor <sup>3</sup>	37	3.6	3.0-4.3	
Stems/Plant	37	2.5	1.6-3.8	
Vine Size <sup>4</sup>	37	3.1	2.5-4.0	
Vine Type <sup>5</sup>	37	2.7	2.0-3.5	
Vine Maturity <sup>6</sup>	37	1.9	1.0-3.0	
Blackspot <sup>7</sup>	Bud End	44	4.3	2.0-5.0
	Stem End	44	4.1	2.4-5.0
	Average	44	4.2	
Weight Loss <sup>8</sup>	44	2.1	1.0-4.3	
Dormancy <sup>9</sup>	44	90	63-132	
Enzymatic Browning <sup>10</sup>	44	4.4	3.4-5.0	
Specific Gravity	47	1.087	1.079-1.093	
Fry Color <sup>11</sup>	Harvest	44	1.7	1.0-4.0
	Storage	44	2.6	1.0-4.0
Fry Texture <sup>12</sup>	Harvest	44	3.1	1.0-4.0
	Storage	44	3.1	1.0-4.0

Refer to footnotes on page 33.



Table 22. Detailed data summary for AC01151-5W.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	6	465	402-557	
Yield US #1 (Cwt/A)	6	368	303-430	
% US #1	6	79	67-90	
Yield >10 oz (Cwt/A)	6	68	53-115	
Yield <4 oz (Cwt/A)	6	85	45-134	
% External Defects <sup>1</sup>	6	2.6	0.6-7.4	
% Hollow Heart <sup>2</sup>	6	0.2	0.0-0.6	
% Stand	6	97	96-99	
Emergence Uniformity	6	3.1	2.8-4.0	
Vine Vigor <sup>3</sup>	6	3.2	3.0-3.5	
Stems/Plant	6	3.5	2.3-4.8	
Vine Size <sup>4</sup>	6	3.4	3.0-3.8	
Vine Type <sup>5</sup>	6	3.0	3.0-3.0	
Vine Maturity <sup>6</sup>	6	3.1	3.0-3.3	
Blackspot <sup>7</sup>	Bud End	11	4.4	3.2-5.0
	Stem End	11	3.0	1.7-4.2
	Average	11	3.7	
Weight Loss <sup>8</sup>	11	2.3	1.6-3.3	
Dormancy <sup>9</sup>	11	97	70-127	
Enzymatic Browning <sup>10</sup>	11	1.8	1.2-3.2	
Specific Gravity	14	1.090	1.078-1.103	
Chip Color <sup>11</sup>	40	12	4.3	3.0-5.0
	40R	12	3.7	2.5-4.5
	50	12	2.4	1.0-3.0
	50R	12	2.3	1.0-3.5

Refer to footnotes on page 33.

Table 23. Detailed data summary for CO02024-9W.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	6	416	343-480	
Yield US #1 (Cwt/A)	6	327	295-369	
% US #1	6	79	69-89	
Yield >10 oz (Cwt/A)	6	50	25-71	
Yield <4 oz (Cwt/A)	6	83	39-146	
% External Defects <sup>1</sup>	6	1.5	0.3-3.7	
% Hollow Heart <sup>2</sup>	6	0.2	0.0-0.8	
% Stand	6	97	96-98	
Emergence Uniformity	6	3.3	3.0-3.5	
Vine Vigor <sup>3</sup>	6	3.4	3.0-4.0	
Stems/Plant	6	3.5	2.6-4.9	
Vine Size <sup>4</sup>	6	3.2	2.8-3.8	
Vine Type <sup>5</sup>	6	3.0	2.8-3.0	
Vine Maturity <sup>6</sup>	6	3.0	3.0-3.0	
Blackspot <sup>7</sup>	Bud End	11	4.3	3.8-4.9
	Stem End	11	2.8	1.6-4.0
	Average	11	3.5	
Weight Loss <sup>8</sup>	11	3.0	2.1-3.9	
Dormancy <sup>9</sup>	11	101	84-134	
Enzymatic Browning <sup>10</sup>	11	3.5	2.0-4.6	
Specific Gravity	14	1.088	1.080-1.095	
Chip Color <sup>11</sup>	40	12	3.8	3.0-4.5
	40R	12	2.6	1.5-4.0
	50	12	1.5	1.0-2.5
	50R	12	1.4	1.0-2.0

Refer to footnotes on page 33.

Table 24. Detailed data summary for CO02033-1W.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	6	426	368-484	
Yield US #1 (Cwt/A)	6	361	317-399	
% US #1	6	85	79-89	
Yield >10 oz (Cwt/A)	6	50	15-75	
Yield <4 oz (Cwt/A)	6	61	36-92	
% External Defects <sup>1</sup>	6	0.8	0.2-1.6	
% Hollow Heart <sup>2</sup>	6	1.6	0.0-2.6	
% Stand	6	98	96-100	
Emergence Uniformity	6	3.4	3.0-4.0	
Vine Vigor <sup>3</sup>	6	3.5	3.0-4.0	
Stems/Plant	6	3.6	2.7-4.7	
Vine Size <sup>4</sup>	6	3.3	3.0-3.8	
Vine Type <sup>5</sup>	6	3.0	2.8-3.0	
Vine Maturity <sup>6</sup>	6	2.7	2.0-3.0	
Blackspot <sup>7</sup>	Bud End	11	3.4	2.7-4.2
	Stem End	11	3.1	2.0-4.4
	Average	11	3.3	
Weight Loss <sup>8</sup>	11	3.3	2.3-5.2	
Dormancy <sup>9</sup>	11	115	70-167	
Enzymatic Browning <sup>10</sup>	11	3.6	2.4-4.6	
Specific Gravity	14	1.098	1.090-1.106	
Chip Color <sup>11</sup>	40	12	3.5	2.5-4.0
	40R	12	2.7	1.5-3.5
	50	12	1.8	1.0-2.5
	50R	12	1.9	1.0-2.5

Refer to footnotes on page 33.

Table 25. Detailed data summary for CO02321-4W.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	6	423	351-508	
Yield US #1 (Cwt/A)	6	340	250-397	
% US #1	6	80	71-85	
Yield >10 oz (Cwt/A)	6	76	54-105	
Yield <4 oz (Cwt/A)	6	66	43-95	
% External Defects <sup>1</sup>	6	3.6	2.5-5.6	
% Hollow Heart <sup>2</sup>	6	0.0	0.0-0.0	
% Stand	6	96	91-99	
Emergence Uniformity	6	3.8	3.0-4.8	
Vine Vigor <sup>3</sup>	6	3.8	3.5-4.5	
Stems/Plant	6	3.2	2.1-4.1	
Vine Size <sup>4</sup>	6	3.3	3.0-3.5	
Vine Type <sup>5</sup>	6	2.9	2.8-3.3	
Vine Maturity <sup>6</sup>	6	2.8	2.5-3.0	
Blackspot <sup>7</sup>	Bud End	11	4.6	4.0-5.0
	Stem End	11	3.7	3.0-4.4
	Average	11	4.2	
Weight Loss <sup>8</sup>	11	3.4	2.5-4.5	
Dormancy <sup>9</sup>	11	83	63-106	
Enzymatic Browning <sup>10</sup>	11	4.2	3.6-4.8	
Specific Gravity	14	1.101	1.092-1.109	
Chip Color <sup>11</sup>	40	12	3.8	2.5-4.5
	40R	12	2.6	2.0-3.5
	50	12	1.6	1.0-2.5
	50R	12	1.7	1.0-3.0

Refer to footnotes on page 33.

Table 26. Detailed data summary for AC03433-1W.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	5	414	340-492	
Yield US #1 (Cwt/A)	5	335	251-421	
% US #1	5	80	74-86	
Yield >10 oz (Cwt/A)	5	68	22-95	
Yield <4 oz (Cwt/A)	5	51	41-64	
% External Defects <sup>1</sup>	5	6.8	3.7-10.1	
% Hollow Heart <sup>2</sup>	5	0.2	0.0-1.0	
% Stand	5	95	91-98	
Emergence Uniformity	5	2.9	2.3-3.3	
Vine Vigor <sup>3</sup>	5	3.1	2.5-4.3	
Stems/Plant	5	3.2	2.5-4.6	
Vine Size <sup>4</sup>	5	3.8	3.5-4.0	
Vine Type <sup>5</sup>	5	3.0	3.0-3.0	
Vine Maturity <sup>6</sup>	5	3.5	3.0-4.0	
Blackspot <sup>7</sup>	Bud End	9	4.8	4.3-5.0
	Stem End	9	3.9	2.5-4.7
	Average	9	4.4	
Weight Loss <sup>8</sup>	9	3.3	2.2-5.3	
Dormancy <sup>9</sup>	9	81	70-101	
Enzymatic Browning <sup>10</sup>	9	4.4	3.4-4.8	
Specific Gravity	12	1.086	1.078-1.092	
Chip Color <sup>11</sup>	40	10	3.3	2.5-4.0
	40R	10	2.8	2.0-3.5
	50	10	1.7	1.0-3.0
	50R	10	1.7	1.0-2.5

Refer to footnotes on page 33.

Table 27. Detailed data summary for CO03243-3W.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	5	464	439-501	
Yield US #1 (Cwt/A)	5	400	357-438	
% US #1	5	86	81-88	
Yield >10 oz (Cwt/A)	5	93	76-113	
Yield <4 oz (Cwt/A)	5	56	46-71	
% External Defects <sup>1</sup>	5	2.0	0.6-2.8	
% Hollow Heart <sup>2</sup>	5	0.5	0.0-0.9	
% Stand	5	97	92-99	
Emergence Uniformity	5	3.6	2.8-4.3	
Vine Vigor <sup>3</sup>	5	3.6	2.8-5.0	
Stems/Plant	5	2.9	2.5-3.5	
Vine Size <sup>4</sup>	5	4.1	3.8-4.3	
Vine Type <sup>5</sup>	5	3.0	3.0-3.0	
Vine Maturity <sup>6</sup>	5	3.3	3.0-4.0	
Blackspot <sup>7</sup>	Bud End	9	4.2	3.4-4.8
	Stem End	9	3.5	2.9-4.2
	Average	9	3.9	
Weight Loss <sup>8</sup>	9	3.1	2.3-4.3	
Dormancy <sup>9</sup>	9	82	63-101	
Enzymatic Browning <sup>10</sup>	9	3.2	2.4-4.2	
Specific Gravity	12	1.089	1.083-1.095	
Chip Color <sup>11</sup>	40	10	3.8	2.5-4.5
	40R	10	3.0	2.5-4.0
	50	10	1.9	1.0-3.0
	50R	10	1.7	1.0-3.0

Refer to footnotes on page 33.

Table 28. Detailed data summary for AC00206-2W.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	4	324	279-362	
Yield US #1 (Cwt/A)	4	257	210-299	
% US #1	4	79	75-83	
Yield >10 oz (Cwt/A)	4	34	16-48	
Yield <4 oz (Cwt/A)	4	60	52-69	
% External Defects <sup>1</sup>	4	2.3	0.8-3.3	
% Hollow Heart <sup>2</sup>	4	1.7	0.0-2.5	
% Stand	4	97	94-98	
Emergence Uniformity	4	2.8	2.3-3.3	
Vine Vigor <sup>3</sup>	4	3.1	3.0-3.3	
Stems/Plant	4	2.5	2.2-2.9	
Vine Size <sup>4</sup>	4	2.4	2.0-2.8	
Vine Type <sup>5</sup>	4	2.8	2.5-3.0	
Vine Maturity <sup>6</sup>	4	2.8	2.3-3.0	
Blackspot <sup>7</sup>	Bud End	7	4.6	4.1-4.9
	Stem End	7	4.1	3.3-4.9
	Average	7	4.3	
Weight Loss <sup>8</sup>	7	3.4	2.7-4.9	
Dormancy <sup>9</sup>	7	87	63-103	
Enzymatic Browning <sup>10</sup>	7	4.4	3.4-5.0	
Specific Gravity	9	1.086	1.083-1.091	
Chip Color <sup>11</sup>	40	8	3.0	2.0-3.5
	40R	8	2.1	1.5-2.5
	50	8	1.6	1.0-2.0
	50R	8	1.7	1.0-2.5

Refer to footnotes on page 33.

Table 29. Detailed data summary for AC03452-2W.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	4	446	412-489	
Yield US #1 (Cwt/A)	4	378	333-418	
% US #1	4	85	81-88	
Yield >10 oz (Cwt/A)	4	68	34-91	
Yield <4 oz (Cwt/A)	4	61	46-74	
% External Defects <sup>1</sup>	4	1.4	1.2-1.7	
% Hollow Heart <sup>2</sup>	4	0.6	0.0-1.5	
% Stand	4	99	98-99	
Emergence Uniformity	4	3.9	3.8-4.3	
Vine Vigor <sup>3</sup>	4	3.5	3.3-3.8	
Stems/Plant	4	3.4	2.7-4.4	
Vine Size <sup>4</sup>	4	3.5	3.3-3.8	
Vine Type <sup>5</sup>	4	2.9	2.8-3.0	
Vine Maturity <sup>6</sup>	4	3.1	3.0-3.3	
Blackspot <sup>7</sup>	Bud End	7	4.9	4.6-5.0
	Stem End	7	4.7	3.6-5.0
	Average	7	4.8	
Weight Loss <sup>8</sup>	7	1.7	1.4-2.3	
Dormancy <sup>9</sup>	7	80	63-95	
Enzymatic Browning <sup>10</sup>	7	4.8	4.4-5.0	
Specific Gravity	10	1.078	1.073-1.087	
Chip Color <sup>11</sup>	40	8	3.5	2.5-4.5
	40R	8	3.1	2.0-4.0
	50	8	1.3	1.0-2.0
	50R	8	1.4	1.0-2.5

Refer to footnotes on page 33.



Table 30. Detailed data summary for Atlantic.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	45	459	307-597	
Yield US #1 (Cwt/A)	45	396	265-512	
% US #1	45	86	76-93	
Yield >10 oz (Cwt/A)	45	147	58-290	
Yield <4 oz (Cwt/A)	45	50	19-109	
% External Defects <sup>1</sup>	45	2.7	0.1-9.1	
% Hollow Heart <sup>2</sup>	45	5.1	0.2-16.4	
% Stand	45	96	88-100	
Emergence Uniformity	39	3.7	3.0-4.3	
Vine Vigor <sup>3</sup>	39	3.5	2.8-4.5	
Stems/Plant	45	3.1	2.2-4.9	
Vine Size <sup>4</sup>	39	3.2	2.2-4.0	
Vine Type <sup>5</sup>	39	3.0	2.8-3.8	
Vine Maturity <sup>6</sup>	45	3.2	2.8-4.0	
Blackspot <sup>7</sup>	Bud End	62	3.2	1.8-5.0
	Stem End	62	2.8	1.4-4.3
	Average	63	3.0	
Weight Loss <sup>8</sup>	63	4.3	1.1-7.9	
Dormancy <sup>9</sup>	60	85	56-119	
Enzymatic Browning <sup>10</sup>	61	4.5	3.8-5.0	
Specific Gravity	67	1.098	1.083-1.120	
Chip Color <sup>11</sup>	40	64	4.1	2.0-5.0
	40R	64	3.5	1.5-5.0
	50	64	2.7	1.0-4.0
	50R	64	2.5	1.0-5.5

Refer to footnotes on page 33.

Table 31. Detailed data summary for Chipeta.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	42	536	399-757	
Yield US #1 (Cwt/A)	42	454	306-606	
% US #1	42	85	71-90	
Yield >10 oz (Cwt/A)	42	169	52-388	
Yield <4 oz (Cwt/A)	42	54	22-119	
% External Defects <sup>1</sup>	42	5.3	1.1-13.0	
% Hollow Heart <sup>2</sup>	42	0.6	0.0-4.0	
% Stand	42	98	94-100	
Emergence Uniformity	35	3.7	3.0-5.0	
Vine Vigor <sup>3</sup>	35	4.0	3.0-5.0	
Stems/Plant	41	3.5	2.0-4.9	
Vine Size <sup>4</sup>	35	4.4	4.0-5.0	
Vine Type <sup>5</sup>	35	3.1	2.5-4.0	
Vine Maturity <sup>6</sup>	42	3.3	3.0-4.0	
Blackspot <sup>7</sup>	Bud End	58	3.9	2.2-5.0
	Stem End	58	3.7	1.4-5.0
	Average	60	3.8	
Weight Loss <sup>8</sup>	60	3.1	1.0-8.0	
Dormancy <sup>9</sup>	56	102	70-153	
Enzymatic Browning <sup>10</sup>	57	4.0	2.8-5.0	
Specific Gravity	63	1.090	1.073-1.107	
Chip Color <sup>11</sup>	40	60	4.5	3.0-5.0
	40R	60	3.8	1.5-5.0
	50	60	2.6	1.0-4.0
	50R	60	2.3	1.0-4.0

Refer to footnotes on page 33.

**Footnotes for Tables 2-31:**

- <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  $\leq 2.0$  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  $\leq 2.0$  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.



Figure 1 (cont'd). Photographs of advanced selections.



Figure 1 (cont'd). Photographs of advanced selections.

