

# TUBER YIELD AND QUALITY PERFORMANCE OF COLORADO ADVANCED POTATO SELECTIONS

## 2009 SUMMARY



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-Comments Welcome-

## 2009 GROWER FIELD MANAGEMENT PRACTICES

### FIELD # 1

Summary of soil type and some management practices

<u>Soil Type</u>	<u>Previous Crop</u>	<u>Inches of Water</u>	<u>Days to Vine Kill</u>
Sandy Loam	Malt Barley	16.8	113

*Summary of Fertilizer Applied*

<u>lb N/ac</u>	<u>lb P<sub>2</sub>O<sub>5</sub>/ac</u>	<u>lb K<sub>2</sub>O/ac</u>	<u>lb S/ac</u>	<u>lb Mg/ac</u>
147	120	38	25.4	6.2

### FIELD # 2

Summary of soil type and some management practices

<u>Soil Type</u>	<u>Previous Crop</u>	<u>Inches of Water</u>	<u>Days to Vine Kill</u>
Sandy Loam	Malt Barley	12.3	100

*Summary of Fertilizer Applied*

<u>lb N/ac</u>	<u>lb P<sub>2</sub>O<sub>5</sub>/ac</u>	<u>lb K<sub>2</sub>O/ac</u>	<u>lb S/ac</u>	<u>lb Mg/ac</u>	<u>lb Zn/ac</u>
95	120	38	27	6.9	0.9

### FIELD # 3

<u>Soil Type</u>	<u>Previous Crop</u>	<u>Inches of Water</u>	<u>Days to Vine Kill</u>
Sandy Loam	Barley	18	110

*Summary of Fertilizer Applied*

<u>lb N/ac</u>	<u>lb P<sub>2</sub>O<sub>5</sub>/ac</u>	<u>lb K<sub>2</sub>O/ac</u>	<u>lb S/ac</u>	<u>lb Zn/ac</u>
240	174	150	74.5	1.5

**FIELD # 4**

Soil Type	Previous Crop	Inches of Water	Days to Vine Kill
Sandy Loam	Barley	16.5	99

*Summary of Fertilizer Applied*


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<u>lb N/ac</u>	<u>lb P<sub>2</sub>O<sub>5</sub>/ac</u>	<u>lb K<sub>2</sub>O/ac</u>	<u>lb S/ac</u>	<u>lb Zn/ac</u>
238	259	100	81.5	2.5

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**FIELD # 5**

Summary of soil type and some management practices

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<u>Soil Type</u>	<u>Previous Crop</u>	<u>Inches of Water</u>	<u>Days to Vine Kill</u>
Sandy Loam	Potato	21.9	130

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*Summary of Fertilizer Applied*


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<u>lb N/ac</u>	<u>lb P<sub>2</sub>O<sub>5</sub>/ac</u>	<u>lb K<sub>2</sub>O/ac</u>	<u>lb S/ac</u>	<u>lb Ca/ac</u>
235	179	0	112	30

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**FIELD # 6**

Summary of soil type and some management practices

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Soil Type	Previous Crop	Inches of Water	Days to Vine Kill
Sandy Loam	Potato	17.9	121

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*Summary of Fertilizer Applied*


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<u>lb N/ac</u>	<u>lb P<sub>2</sub>O<sub>5</sub>/ac</u>	<u>lb K<sub>2</sub>O/ac</u>	<u>lb S/ac</u>	<u>lb Ca/ac</u>
235	179	0	112	30

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Table 1 Effect of nitrogen application timing on yield and tuber size distribution of CO95172-3RU, 2008

Treatment	Yield (cwt/ac)										
	Total	< 4oz	> 4oz	4-16oz	4-10oz	10-16oz	4-12oz	6-12oz	6-14oz	6-16oz	> 16oz
SPF <sup>1</sup>	453	205	248	248	245	3	245	88	91	91	0
CONV.	490	228	262	258	253	5	258	101	101	101	4

<sup>1</sup> SPF = Nitrogen applied at 7 days interval during the growing season  
<sup>2</sup> CONV = Nitrogen applied at 14 days interval during the growing season

Table 2 Effect of nitrogen application timing on tuber quality of CO95172-3RU, 2008

Treatment	% External Defects <sup>2</sup>	% Internal Defect <sup>3</sup>	Specific Gravity
SPF <sup>1</sup>	0.6	0	1.086
CONV.	5.2	0	1.084

<sup>1</sup> SPF = Nitrogen applied at 7 days interval during the growing season

<sup>2</sup> CONV = Nitrogen applied at 14 days interval during the growing season

<sup>3</sup> Includes growth cracks, knobs, and misshapes

Includes hollow heart and brown center

Table 3 Effect of in-row seed piece spacing on yield and tuber size distribution of CO95172-3RU, 2006.

Seed spacing (inches)	Total	Yield (cwt/ac)							
		< 4oz	> 4oz	4-16oz	4-10oz	10-16oz	6-12 oz	12-16oz	> 16oz
10	420	195	225	225	220	5	87	0	0
12	405	167	238	238	215	23	103	5	0
14	387	141	246	246	233	13	97	0	0

Table 4 Effect of in-row seed piece spacing on tuber quality of CO95172-3RU 2006

Seed spacing (inches)	% External Defects <sup>1</sup>	% Internal Defects <sup>2</sup>	Specific Gravity
10	1.1	0	1.085
12	1.4	0	1.086
14	1.5	0	1.088

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 5 Effect of vine kill date on yield and tuber size distribution of CO95172-3RU, 2006.

Vine Kill (DAP) <sup>1</sup>	Total	Yield(cwt/ac)							
		< 4 oz	> 4 oz	4-16 oz	4-10 oz	10-16 oz	6-12 oz	12-16 oz	> 16 oz
90	353	215	138	138	138	0	44	0	0
100	489	220	269	269	225	44	113	15	0
110	497	177	320	320	284	36	151	18	0
120	441	151	290	277	249	28	123	10	13

<sup>1</sup>Days after planting

Table 6 Effect of vine kill date on tuber quality of CO95172-3RU, 2006

Vine kill (DAP) <sup>1</sup>	% External Defects <sup>2</sup>	% Internal Defects <sup>3</sup>	Specific Gravity
90	2.3	0.7	1.065
100	2.7	1.6	1.077
110	1.6	0.6	1.077
120	4.0	1.1	1.079

<sup>1</sup>Days after planting

<sup>2</sup>Includes growth cracks, knobs and misshapes

<sup>3</sup>Includes hollow heart and brown center

Table 7 Yield and tuber size distribution of CO95172-3RU grown under different management practices, 2005.

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)				
				4-16oz	4-10oz	10-16oz	12-16oz	> 16oz
1	530	182	348	348	336	12	7	0
2	658	175	483	483	428	55	13	0
3	408	107	301	301	286	15	0	0
Mean	532	155	377	377	350	27	7	0

Table 8 Yield and tuber size distribution of C095172-3RU, grown under different management practices, 2004.

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)				
				4-16oz	4-10oz	10-16oz	12-16oz	> 16oz
1	422	95	327	318	272	46	25	9
2	519	141	378	378	350	28	7	0
3	422	117	305	305	262	43	22	0
4	494	177	317	317	291	26	15	0
Mean	464	132	332	330	294	36	17	2

Table 9 Effect of in-row seed piece spacing on yield and tuber size distribution of AC96052-1RU, (two year average) 2006 and 2008.

Seed spacing (inches)	Total	Yield (cwt/ac)							
		< 4oz	> 4oz	4-16oz	4-10oz	10-16oz	6 - 12 oz	12 -16oz	> 16oz
10	399	157	242	242	236	6	90	5	0
12	397	132	265	265	252	13	112	9	0
14	372	111	261	261	236	25	110	5	0

Table 10 Effect of in-row seed piece spacing on tuber quality of AC96052-1RU, (two year average) 2006 and 2008

Seed spacing (inches)	% External Defects <sup>1</sup>		% Internal Defect <sup>2</sup>		Specific Gravity
	% External Defects <sup>1</sup>	% External Defects <sup>1</sup>	% Internal Defect <sup>2</sup>	% Internal Defect <sup>2</sup>	
10	0.4	0.4	0	0	1.089
12	0.4	0.4	0	0	1.091
14	0.2	0.2	0	0	1.091

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center



Table 11 Effect of vine kill date on yield and tuber size distribution of AC96052-1RU, 2006.

Vine Kill (DAP) <sup>1</sup>	Total	Yield(cwt/ac)							
		< 4 oz	> 4 oz	4 - 16 oz	4 - 10 oz	10 - 16 oz	6 - 12 oz	12 - 16 oz	> 16 oz
90	272	128	144	144	144	0	46	0	0
100	384	105	279	279	248	31	136	15	0
110	451	82	369	369	315	54	236	15	0
120	361	64	297	292	274	18	159	10	5

<sup>1</sup>Days after planting

Table 12 Effect of vine kill date on tuber quality of AC96052-1RU, 2006

Vine kill (DAP) <sup>1</sup>	% External Defects <sup>2</sup>	% Internal Defects <sup>3</sup>	Specific Gravity
90	0	0	1.067
100	0	0.7	1.076
110	0.5	0	1.080
120	0	2.9	1.083

<sup>1</sup>Days after planting

<sup>2</sup>Includes growth cracks, knobs and misshapes

<sup>3</sup>Includes hollow heart and brown center

Table 13 Yield and tuber size distribution of AC96052-1RU grown under different management practices, 2005.

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)					
				4-16oz	4-10oz	10-16oz	12-16oz	> 16oz	
1	451	154	297	297	285	12	0	0	
2	515	138	377	368	346	22	7	9	
3	415	79	336	328	271	57	26	8	
Mean	460	124	337	331	301	30	11	6	

Table 14 Yield and tuber size distribution of AC96052-1RU grown under different management practices, 2004.

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)					
				4-16oz	4-10oz	10-16oz	12-16oz	> 16oz	
1	231	85	146	146	139	7	7	0	
2	386	113	273	273	273	0	0	0	
3	295	72	223	223	191	32	21	0	
4	438	97	341	341	320	21	0	0	
Mean	338	92	246	246	231	15	7	0	

Table 15 Yield and tuber size distribution of CO97087-2RU grown under different management practices (two year average), 2006 and 2007

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)					
				4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz
1	385	150	235	235	223	12	108	0	0
2	454	104	350	342	277	65	219	19	8
3	454	123	331	331	304	27	158	12	0
4	449	138	311	311	281	30	150	12	0
5	500	108	392	392	308	84	270	19	0
6	458	135	323	323	273	50	142	31	0

Table 16 Tuber quality of CO97087-2RU grown under different management practices (two year average), 2006 and 2007

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
	0	1.1	0	1.0
1	0	1.1	0	1.0
2	1.1	0	0	0
3	0	0.9	0	0
4	0.9	2.1	0	0
5	2.1	0	0	0
6	0	0	0	0

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 17 Yield and tuber size distribution of CO98368-2RU grown under different management practices (two year average), 2007 and 2008

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)					
				4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz
1	382	216	166	166	155	11	134	0	0
2	328	145	183	174	167	7	119	0	9
3	333	186	147	147	147	0	110	0	0
4	328	185	143	143	143	0	81	0	0
5	397	175	222	222	222	0	164	0	0
6	348	195	153	153	153	0	110	0	0

Table 18 Tuber quality of CO98368-2RU grown under different management practices (two year average), 2007 and 2008

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
1	0		0	
2	1.6		0	
3	1.1		0	
4	0.9		0	
5	0		0	
6	2.6		0	

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 19 Yield and tuber size distribution of AC99375-1RU grown under different management practices, 2009

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	>10oz	> 16oz
1	626	89	537(86) <sup>1</sup>	472	434(69)	298	136	289	369	238	103
2	427	147	280(66)	145	280(66)	265	15	129	145	15	0
3	587	86	501(85)	406	452(77)	249	203	292	357	252	49
4	311	95	215(69)	108	215(69)	197	18	108	108	18	0
5	566	37	529(94)	421	510(90)	433	77	348	403	95	19
6	511	80	431(84)	286	397(78)	314	83	215	252	117	34

<sup>1</sup>Figures in brackets indicate % of total

Table 20 Tuber quality of AC99375-1RU grown under different management practices, 2009

Field number	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>
1	4.9	0
2	5.0	0
3	1.6	0
4	0	0
5	0	0
6	6.6	0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 21 Yield and tuber size distribution of AC99375-1RU grown under different management practices, 2008.

Field number	Total	< 4oz	> 4oz	Yield(cwt/ac)										
				4-16oz	4-10oz	10-16oz	4-12oz	6-12oz	6-14oz	6-16oz	12-16oz	> 16oz		
1	498	240	258(52) <sup>1</sup>	258	258	0	258	34	34	34	34	34	0	0
2	298	160	138(46)	138	138	0	138	37	37	37	37	37	0	0
3	609	169	440(72)	440	428	12	428	132	145	145	145	145	12	0
4	467	310	157(34)	157	157	0	157	28	28	28	28	28	0	0
5	572	77	495(87)	495	437	58	470	301	314	314	326	25	0	0
6	566	135	431(76)	431	409	22	418	240	252	252	252	12	0	0
Mean	502	182	320(61)	320	305	15	312	129	135	135	137	8	0	0

<sup>1</sup>Figures in brackets indicate % of total

Table 22 Tuber quality of AC99375-1RU grown under different management practices, 2008

Field number	% External Defects <sup>1</sup>	% Internal Defects <sup>2</sup>
1	3.1	0
2	0	0
3	0	0
4	0	0
5	3.2	0
6	1.6	0
Mean	1.3	0

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 23 Yield and tuber size distribution of CO99053-3RU grown under different management practices, 2009

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 – 16oz	4 – 10oz	10-16oz	6 – 12oz	6 – 16oz	>10oz	> 16oz
1	578	83	495(86) <sup>1</sup>	424	394(68)	243	151	228	323	252	101
2	492	83	409(83)	277	409(83)	304	105	221	277	105	0
3	615	71	544(89)	409	544(89)	412	132	357	409	132	0
4	249	46	203(82)	126	203(82)	191	12	126	126	12	0
5	391	43	348(89)	301	277(71)	160	117	166	231	188	71
6	600	98	502(84)	375	434(72)	274	160	188	308	228	68

<sup>1</sup>Figures in brackets indicate % of total

Table 24 Tuber quality of CO99053-3RU grown under different management practices, 2009

Field number	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>
1	3.2	4.3
2	2.5	0
3	1.0	0
4	1.2	0
5	5.5	0
6	2.1	0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 25 Yield and tuber size distribution of CO99053-3RU grown under different management practices, 2008.

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)										
				4-16oz	4-10oz	10-16oz	4-12oz	6-12oz	6-14oz	6-16oz	12-16oz	> 16oz		
1	467	65	403(86) <sup>1</sup>	387	338	49	350	138	175	175	175	37	15	
2	384	104	280(73)	280	249	31	280	172	172	172	0	0	0	
3	578	77	501(87)	501	400	101	471	335	335	335	366	31	0	
4	452	55	397(88)	397	357	40	397	234	234	234	234	0	0	
5	514	31	483(94)	375	224	151	298	228	289	289	304	77	108	
6	440	43	397(90)	375	261	114	283	225	289	289	317	92	22	
Mean	473	63	410(86)	386	305	81	347	222	249	249	261	40	24	

<sup>1</sup>Figures in brackets indicate % of total

Table 26 Tuber quality of CO99053-3RU grown under different management practices, 2008

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
	Cracks	Knobs	Cracks	Knobs
1	0	0	0	0
2	2.4	0	0	0
3	0	0	0	0
4	0	0	0	0
5	4.2	0	0	0
6	1.4	0	0	0
Mean	1.3	0	0	0

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center



Table 27 Yield and tuber size distribution of CO99053-4RU grown under different management practices, 2009

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	> 10oz	> 16oz
1	409	40	369(90) <sup>1</sup>	341	329(81)	271	58	283	301	98	40
2	443	77	366(83)	225	366(83)	341	25	212	225	25	0
3	615	80	535(87)	406	535(87)	455	80	378	406	80	0
4	372	61	311(84)	169	311(84)	274	37	145	169	37	0
5	364	69	295(81)	154	295(81)	274	21	141	154	21	0
6	495	104	391(79)	252	391(79)	289	102	203	252	102	0

<sup>1</sup>Figures in brackets indicate % of total

Table 28 Tuber quality of CO99053-4RU grown under different management practices, 2009

Field number	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>
1	4.5	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 29 Yield and tuber size distribution of CO99053-4RU grown under different management practices, 2008.

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)									
				4-16oz	4-10oz	10-16oz	4-12oz	6-12oz	6-14oz	6-16oz	12-16oz	> 16oz	
1	391	145	246(63) <sup>1</sup>	246	246	0	246	105	105	105	175	0	0
2	345	148	197(57)	197	166	31	197	120	120	120	120	0	0
3	406	117	289(71)	289	268	21	289	163	163	163	163	0	0
4	363	151	212(58)	212	212	0	212	80	80	80	80	0	0
5	394	80	314(80)	314	280	34	314	191	191	191	191	0	0
6	384	83	301(78)	301	280	21	289	191	191	191	203	12	0
Mean	381	121	260(68)	260	242	18	258	142	142	142	155	2	0

<sup>1</sup>Figures in brackets indicate % of total

Table 30 Tuber quality of CO99053-4RU grown under different management practices, 2008

Field number	% External Defects <sup>1</sup>	% Internal Defects <sup>2</sup>
1	0	0
2	1.8	0
3	0	0
4	0	0
5	0	0
6	0.8	0
Mean	0.4	0

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 31 Yield and tuber size distribution of CO99100-1RU grown under different management practices, 2009).

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	>10oz	> 16oz
1	404	31	374(92) <sup>1</sup>	303	374(92)	265	109	266	303	109	0
2	526	22	504(96)	412	452(86)	292	160	295	360	212	52
3	593	52	541(91)	418	523(88)	434	89	394	400	108	18
4	385	37	348(90)	218	348(90)	326	22	218	218	22	0
5	437	105	332(76)	203	332(76)	277	55	178	203	55	0
6	468	117	351(75)	218	351(75)	271	80	178	218	80	0

<sup>1</sup>Figures in brackets indicate % of total

Table 32 Tuber quality of CO99100-1RU grown under different management practices, 2009.

Field number	External Defects <sup>1</sup>		Internal Defects <sup>2</sup>	
	Yield (cwt/ac)	%	Yield (cwt/ac)	%
1	374(92)	0	303	0
2	504(96)	0	412	0
3	541(91)	0	418	0
4	348(90)	0	218	0
5	332(76)	2.1	203	0
6	351(75)	0	218	0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 33 Yield and tuber size distribution of CO99100-1RU grown under different management practices, 2008.

Field Number	Total	< 4oz	> 4oz	Yield(cwt/ac)									
				4-16oz	4-10oz	10-16oz	4-12oz	6-12oz	6-14oz	6-16oz	12-16oz	> 16oz	
1	397	117	280(71) <sup>1</sup>	280	268	12	280	102	102	102	102	0	0
2	446	80	366(82)	366	304	62	326	209	221	249	249	40	0
3	504	77	427(85)	390	317	74	351	258	283	298	298	40	37
4	449	68	381(85)	381	372	9	381	200	200	200	200	0	0
5	468	34	434(93)	363	258	105	311	206	243	258	258	52	71
6	437	77	360(83)	360	338	22	348	240	252	252	252	12	0
Mean	450	76	375(83)	357	310	47	333	203	217	227	227	24	18

<sup>1</sup>Figures in brackets indicate % of total

Table 34 Tuber quality of CO99100-1RU grown under different management practices, 2008

Field number	% External Defects <sup>1</sup>	% Internal Defects <sup>2</sup>
1	0	0
2	3.5	0
3	0	0
4	0.7	0
5	27.6	0
6	2.9	0
Mean	5.8	0

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 35 Yield and tuber size distribution of Rio Grande Russet grown under different management practices, 2009

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	>10oz	> 16oz
1	557	95	461(83) <sup>1</sup>	378	437(79)	286	151	289	354	175	24
2	569	154	415(73)	228	415(73)	335	80	188	228	80	0
3	508	65	443(87)	357	406(80)	286	120	264	320	157	37
4	341	70	271(79)	148	271(79)	262	9	148	148	9	0
5	756	61	695(92)	523	677(89)	416	261	335	504	280	18
6	732	123	609(83)	461	554(76)	363	191	329	406	246	55

<sup>1</sup>Figures in brackets indicate % of total

Table 36 Tuber quality of Rio Grande Russet grown under different management practices, 2009

Field number	External Defects <sup>1</sup>		Internal Defects <sup>2</sup>	
	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>
1	8.8	6.1		
2	2.2	0		
3	0	0		
4	5.4	0		
5	0	0		
6	5.5	0		

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 37 Yield and tuber size distribution of CO98012-5R grown under different management practices (two year average), 2007 and 2008

Field Number	Total	< 4oz	> 4oz	4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz	Yield (cwt/ac)	
1	478	305	173	173	173	0	115	0	0		
2	388	164	224	224	205	19	164	0	0		
3	543	244	299	299	288	11	185	0	0		
4	543	271	272	272	272	0	182	0	0		
5	486	240	246	246	240	6	154	0	0		
6	456	268	188	188	180	8	109	8	0		

Table 38 Tuber quality of CO98012-5R grown under different management practices( two year average), 2007 and 2008

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
1		0.4		0
2		3.4		0
3		0		0
4		0		0
5		0		0
6		0		0

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 39 Yield and tuber size distribution of CO99076-6R grown under different management practices, 2009.

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	> 16oz	
1	412	55	357(87) <sup>1</sup>	292	341(83)	175	166	185	277	181	16
2	415	175	240(58)	111	240(58)	240	0	111	111	0	0
3	590	58	532(90)	378	532(90)	452	80	329	378	80	0
4	224	64	160(71)	108	160(71)	114	46	83	108	46	0
5	206	80	126(61)	71	126(61)	126	0	71	71	0	0
6	541	77	464(86)	298	443(82)	369	74	252	277	95	21

<sup>1</sup>Figures in brackets indicate % of total

Table 40 Tuber quality of CO99076-6R grown under different management practices, 2009.

Field number	External Defects <sup>1</sup>		Internal Defects <sup>2</sup>	
	6.7			
1	6.7			0
2	0			0
3	0			0
4	0			0
5	0			0
6	0			0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 41 Yield and tuber size distribution of CO99076-6R grown under different management practices, 2008.

Field Number	Total	< 4oz	> 4oz	4-16oz	4-10oz	10-16oz	4-12oz	6-12 oz	6-14oz	6-16oz	12-16oz	> 16oz	Yield (cwt/ac)		
1	320	135	185(58) <sup>1</sup>	185	185	0	185	77	77	77	0	0	0		
2	341	86	255(75)	255	215	40	255	163	163	163	0	0	0		
3	427	138	289(68)	289	289	0	289	145	145	145	0	0	0		
4	351	120	231(66)	231	219	12	231	111	111	111	0	0	0		
5	449	145	304(68)	304	261	43	292	178	191	191	13	0	0		
6	415	197	218(53)	218	209	9	218	117	117	117	0	0	0		
Mean	384	137	247(64)	247	230	17	245	132	134	134	2	0	0		

<sup>1</sup>Figures in brackets indicate % of total

Table 42 Tuber quality of CO99076-6R grown under different management practices, 2008

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
1	0		0	
2	6.3		0	
3	0.7		0	
4	2.6		0	
5	1.4		0	
6	0		0	
Mean	1.8		0	

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center



Table 43 Tuber diameter of CO99076-6R grown under different management practices, 2008

Field number	Yield (cwt/ac)					
	< 2 in. dia <sup>1</sup>	2 - 4 in. dia.	> 4 in. dia.	> 2 in. < 10 oz	> 2 in. > 10 oz	> 2 in. dia.
1	49	264	0	264	0	264
2	43	301	0	261	40	301
3	37	387	0	387	0	387
4	49	298	0	286	12	298
5	55	391	0	348	43	291
6	71	338	0	329	9	338
Mean	51	330	0	313	17	330

<sup>1</sup>dia = Diameter

Table 44 Yield and tuber size distribution of CO99256-2R grown under different management practices, 2009

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	> 16oz	
1	514	132	381(74.3)	304	363(71)	317	46	271	286	65	19
2	452	283	169(37)	52	169(37.4)	169	0	52	52	0	0
3	593	181	412(69)	231	412(69)	403	9	231	231	9	0
4	372	188	185(50)	40	185(50)	185	0	40	40	0	0
5	458	62	397(87)	348	344(75)	175	169	197	295	221	52
6	732	154	578(79)	455	578(79)	409	169	326	455	169	0

<sup>1</sup>Figures in brackets indicate % of total

Table 45 Tuber quality of CO99256-2R grown under different management practices, 2009

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
	Field number	% External Defects <sup>1</sup>	Field number	% Internal Defects <sup>2</sup>
1	1.8	0		
2	2	0		
3	1	0		
4	1.7	0		
5	0	0		
6	0.4	0		

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 46 Yield and tuber size distribution of CO99256-2R grown under different management practices, 2008.

Field Number	Total	< 4oz	> 4oz	Yield(cwt/ac)										
				4-16oz	4-10oz	10-16oz	4-12oz	6-12oz	6-14oz	6-16oz	12-16oz	>16oz		
1	348	268	80(23) <sup>1</sup>	80	80	0	80	25	25	25	25	25	0	0
2	467	194	273(59)	273	261	12	273	111	111	111	111	111	0	0
3	547	212	335(61)	335	295	40	323	138	151	151	151	151	12	0
4	443	200	243(55)	243	243	0	243	98	98	98	98	98	0	0
5	596	221	375(63)	375	354	21	375	200	200	200	200	200	0	0
6	520	191	329(63)	329	320	9	329	117	117	117	117	117	0	0
Mean	487	214	273(54)	273	259	14	271	115	117	117	117	117	2	0

<sup>1</sup>Figures in brackets indicate % of total

Table 47 Tuber quality of CO99256-2R grown under different management practices, 2008

Field number	% External Defects <sup>1</sup>	% Internal Defects <sup>2</sup>
1	0	0
2	1.3	0
3	0	0
4	0	0
5	0	1.6
6	0	0
Mean	0.2	0.3

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 48 Tuber diameter for CO99256-2R grown under different management practices, 2008

Field number	< 2 ins. dia <sup>1</sup>	2 - 4 ins. dia.	> 4 ins. dia.	> 2 in. < 10 oz	> 2 in. > 10 oz	> 2 in. dia.
	Yield (cwt/ac)					
1	191	138	0	138	0	138
2	120	338	0	329	9	338
3	89	458	0	415	43	458
4	95	344	0	344	0	344
5	120	471	0	449	22	471
6	86	433	0	421	12	433
Mean	117	364	0	349	14	364

<sup>1</sup> dia = Diameter

Table 49 Yield and tuber size distribution of CO00277-2R grown under different management practices, 2009

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	>10oz	> 16oz
1	308	80	228(74) <sup>1</sup>	157	206(67)	169	37	108	135	58	22
2	498	163	335(67)	135	335(67)	314	21	135	135	21	0
3	544	111	433(80)	332	433(80)	295	138	289	332	138	0
4	446	102	344(77)	197	344(77)	295	49	197	197	49	0
5	489	197	292(60)	138	292(60)	283	9	138	138	9	0
6	541	120	421(78)	298	403(74)	255	148	215	280	166	18

<sup>1</sup>Figures in brackets indicate % of total

Table 50 Tuber quality of CO00277-2R grown under different management practices, 2009

Field number	External Defects <sup>1</sup>		Internal Defects <sup>2</sup>	
	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>
1	0	0	0	0
2	4.3	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 51 Yield and tuber size distribution of CO00291-5R grown under different management practices, 2009

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	>10oz	> 16oz
1	507	117	390(77) <sup>1</sup>	277	390(77)	341	49	264	277	49	0
2	301	218	83(28)	6	83(28)	83	0	6	6	0	0
3	575	138	437(76)	221	437(76)	415	22	221	221	22	0
4	465	197	268(58)	120	268(58)	268	0	120	120	0	0
5	360	123	237(66)	120	237(66)	188	49	92	120	49	0
6	588	148	440(75)	264	440(75)	409	31	264	264	31	0

<sup>1</sup>Figures in brackets indicate % of total

Table 52 Tuber quality of CO00291-5R grown under different management practices, 2009

Field number	External Defects <sup>1</sup>		Internal Defects <sup>2</sup>	
	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0.9	0	0	0
6	0	0	0	0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 53 Yield and tuber size distribution of Sangre-S10 grown under different management practices, 2009

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	> 16oz	
1	480	37	443(92)	409	369(77)	157	212	209	335	286	74
2	541	172	369(68)	148	369(68)	360	9	148	148	9	0
3	597	74	523(88)	446	523(88)	277	246	308	446	246	0
4	412	74	338(82)	240	338(82)	258	80	225	240	80	0
5	612	74	538(88)	449	489(80)	268	221	283	400	271	49
6	593	102	492(83)	354	492(83)	369	123	261	354	123	0

<sup>1</sup>Figures in brackets indicate % of total

Table 54 Tuber quality of Sangre-S10 grown under different management practices, 2009

Field number	External Defects <sup>1</sup>		Internal Defects <sup>2</sup>	
	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>
1	3.2	3.2	3.2	3.2
2	6.8	6.8	0	0
3	0.5	0.5	0	0
4	0	0	0	0
5	4.5	4.5	0	0
6	2.1	2.1	0	0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 55 Yield and tuber size distribution of AC97521-1R/Y, grown under different management practices (two year average), 2006 and 2007

Field Number	Total	< 4oz	> 4oz	4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz	Yield (cwt/ac)									
1	489	308	181	181	181	0	139	0	0										
2	423	158	265	265	238	27	185	12	0										
3	450	235	215	215	208	7	169	0	0										
4	527	235	292	292	285	7	223	0	0										
5	466	212	254	254	254	0	143	0	0										
6	492	273	219	219	219	0	138	0	0										

Table 56 Tuber quality of AC97521-1R/Y grown under different management practices (two year average), 2006 and 2007

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
1	0	0	2.0	0
2	0.9	0	1.4	1.5
3	0	1.6	2.5	1.7
4	0.9	0		
5	0			
6				

<sup>1</sup> Includes growth cracks, knobs and misshapes  
<sup>2</sup> Includes hollow heart and brown center



Table 57 Yield and tuber size distribution of CO97226-2R/R grown under different management practices (two year average), 2006 and 2007

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)					
				4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz
1	404	338	66	66	66	0	58	0	0
2	323	246	77	77	77	0	35	0	0
3	381	335	46	46	46	0	35	0	0
4	381	331	50	50	50	0	16	0	0
5	385	350	35	35	35	0	15	0	0
6	412	366	46	46	46	0	16	0	0

Table 58 Tuber quality of CO97226-2R/R grown under different management practices (two year average), 2006 and 2007

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
1		4.0		0
2		0		0
3		0		0
4		0		0
5		0		0
6		0.9		0

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 59 Yield and tuber size distribution of CO97232-1R/Y grown under different management practices (two year average), 2006 and 2007

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)					
				4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz
1	350	192	158	158	158	0	119	0	0
2	369	134	235	235	219	16	173	8	0
3	388	200	189	189	185	4	142	0	0
4	458	239	219	219	219	0	165	0	0
5	470	235	235	235	227	8	127	0	0
6	400	165	235	235	227	8	162	0	0

Table 60 Tuber quality of CO97232-1R/Y grown under different management practices (two year average), 2006 and 2007

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
1	0		0	0
2	4.4		0	0
3	0		0	0
4	2.8		0	0
5	0		0	0
6	2.0		0	0

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 61 Yield and tuber size distribution of CO97232-2R/Y grown under different management practices (two year average), 2006 and 2007

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)					
				4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz
1	400	188	212	212	200	12	181	0	0
2	419	138	281	281	258	23	196	12	0
3	481	181	300	300	300	0	227	0	0
4	443	204	239	239	239	0	185	0	0
5	285	158	127	127	127	0	85	0	0
6	462	212	250	250	235	15	154	0	0

Table 62 Tuber quality of CO97232-2R/Y grown under different management practices (two year average), 2006 and 2007

Field number	% External Defects <sup>1</sup>	% Internal Defects <sup>2</sup>
1	1.3	0
2	3.8	1.9
3	0.7	0
4	0.8	0
5	1.3	0
6	2.2	0

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 63 Yield and tuber size distribution of CO97233-3R/Y grown under different management practices (two year average), 2006 and 2007

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)					
				4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz
1	516	235	281	281	250	31	185	16	0
2	516	185	331	323	304	19	239	0	8
3	384	138	246	246	242	4	173	0	0
4	454	219	235	235	212	23	158	12	0
5	434	138	296	285	285	0	215	0	11
6	504	211	293	293	262	31	196	8	0

Table 64 Tuber quality of CO97233-3R/Y grown under different management practices (two year average), 2006 and 2007

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
	4-16oz	4-10oz	10-16oz	6-12oz
1	4.7	4.7	0.7	0.7
2	0.7	0.7	0.7	0.7
3	2.0	2.0	0	0
4	4.2	4.2	1.7	1.7
5	0	0	2.8	2.8
6	5.5	5.5	0.7	0.7

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 65 Yield and tuber size distribution of CO97222-1R/R grown under different management practices (two year average), 2007 and 2008

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)					
				4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz
1	365	267	98	98	0	89	0	0	
2	372	186	186	186	4	117	0	0	
3	411	256	155	155	0	96	0	0	
4	407	267	140	140	0	98	0	0	
5	392	230	162	162	0	95	0	0	
6	403	271	132	132	0	75	0	0	

Table 66 Tuber quality of CO97222-1R/R grown under different management practices (two year average), 2007 and 2008

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
1	0.5		0	
2	1.7		0	
3	1.0		0	
4	0		0	
5	2.1		0	
6	1.0		0	

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 67 Yield and tuber size distribution of CO97227-2P/PW grown under different management practices (two year average), 2007 and 2008

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)					
				4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz
1	455	401	54	54	54	0	54	0	0
2	486	406	80	80	80	0	40	0	0
3	494	425	69	69	69	0	42	25	0
4	415	382	33	33	33	0	19	0	0
5	503	389	114	114	114	0	66	0	0
6	421	350	71	71	71	0	22	0	0

Table 68 Tuber quality of CO97227-2P/PW grown under different management practices (two year average), 2007 and 2008

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
1	0		0	
2	10.6		0	
3	2.6		0	
4	1.7		0	
5	0.4		0	
6	0		0	

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 69 Yield and tuber size distribution of AC99329-7PW/Y grown under different management practices, 2009

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	>10oz	> 16oz
1	569	95	474(83) <sup>1</sup>	372	474(83)	311	163	332	372	163	0
2	394	185	209(53)	169	209(53)	172	37	154	169	37	0
3	698	92	606(87)	483	606(87)	508	98	467	483	98	0
4	458	123	335(73)	163	335(73)	317	18	163	163	18	0
5	873	95	778(89)	646	704(81)	406	298	443	572	372	74
6	680	114	566(83)	464	535(79)	378	157	369	434	188	31

<sup>1</sup>Figures in brackets indicate % of total

Table 70 Tuber quality of AC99329-7PW/Y grown under different management practices, 2009.

Field number	External Defects <sup>1</sup>		Internal Defects <sup>2</sup>	
	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>
1	0.5	0	0	0
2	1.6	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 71 Yield and tuber size distribution of AC99329-7PW/Y grown under different management practices, 2008.

Field Number	Total	< 4oz	> 4oz	Yield(cwt/ac)										
				4-16oz	4-10oz	10-16oz	4-12oz	6-12oz	6-14oz	6-16oz	12-16oz	> 16oz		
1	394	240	154 (39) <sup>1</sup>	154	154	0	154	43	43	43	43	43	0	0
2	713	157	556 (78)	541	390	151	464	277	277	354	354	354	77	15
3	648	141	507 (78)	507	375	132	458	277	277	326	326	326	49	0
4	458	166	292 (64)	292	270	22	292	181	181	181	181	181	0	0
5	544	132	412 (76)	394	311	83	354	181	181	194	221	221	40	18
6	562	95	467 (83)	467	335	132	431	363	400	400	400	400	37	0
Mean	553	155	398 (70)	393	306	87	359	220	250	254	254	254	34	6

<sup>1</sup>Figures in brackets indicate % of total

Table 72 Tuber quality of AC99329-7PW/Y grown under different management practices, 2008

Field number	% External Defects <sup>1</sup>	% Internal Defects <sup>2</sup>
1	0	0
2	0	1.7
3	0	1.9
4	0	0
5	0	0
6	0	0
Mean	0	0.6

<sup>1</sup>Includes growth cracks, knobs and misshapes,

<sup>2</sup>Includes hollow heart and brown center



Table 73 Yield and tuber size distribution of AC99330-1P/Y grown under different management practices, 2009

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	> 10oz	> 16oz
1	498	92	406(82) <sup>1</sup>	304	406(82)	351	55	280	304	55	0
2	461	252	209(45)	89	209(45)	178	31	89	89	31	0
3	489	163	326(67)	114	326(67)	326	0	114	114	0	0
4	418	175	243(58)	123	243(58)	209	34	98	123	34	0
5	440	181	259(59)	157	259(59)	234	25	141	157	25	0
6	449	234	215(48)	28	215(48)	215	0	28	28	0	0

<sup>1</sup>Figures in brackets indicate % of total

Table 74 Tuber quality of AC99330-1P/Y grown under different management practices, 2009

Field number	External Defects <sup>1</sup>		Internal Defects <sup>2</sup>	
	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>
1	0	0	0	0
2	0.7	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 75 Yield and tuber size distribution of AC99330-1P/Y grown under different management practices, 2008

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)									
				4-16oz	4-10oz	10-16oz	4-12oz	6-12oz	6-14oz	6-16oz	12-16oz	> 16oz	
1	437	357	80(18) <sup>1</sup>	80	80	0	80	19	19	19	19	0	0
2	550	335	215(39)	215	206	9	215	58	58	58	58	0	0
3	551	231	320(58)	320	298	22	320	163	163	163	163	0	0
4	415	237	178(43)	178	178	0	178	37	37	37	37	0	0
5	526	283	243(46)	243	243	0	243	68	68	68	68	0	0
6	522	264	258(49)	258	246	12	258	108	108	108	108	0	0
Mean	500	284	216(42)	216	209	7	216	76	76	76	76	0	0

<sup>1</sup> Figures in brackets indicate % of total

Table 76 Tuber quality of AC99330-1P/Y grown under different management practices, 2008

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
	Field number	% External Defects <sup>1</sup>	Field number	% Internal Defects <sup>2</sup>
1	0	0	0	0
2	1.1	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
Mean	0.2	0	0	0

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 77 Yield and tuber size distribution of CO99045-1W/Y grown under different management practices, 2009

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	> 16oz	
1	584	49	535(92) <sup>1</sup>	464	492(84)	277	215	357	421	258	43
2	400	138	262(65)	145	262(65)	243	19	145	145	19	0
3	947	151	796(84)	609	781(83)	643	138	529	594	154	15
4	501	98	403(80)	215	403(80)	372	31	215	215	31	0
5	766	89	677(88)	587	609(80)	369	240	375	520	308	68
6	803	114	689(86)	520	584(73)	449	135	354	415	240	105

<sup>1</sup>Figures in brackets indicate % of total

Table 78 Tuber quality of CO99045-1W/Y grown under different management practices, 2009

Field number	External Defects <sup>1</sup>		Internal Defects <sup>2</sup>	
	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	1.2	0	0	0
5	0	0	0	0
6	3.5	0	0	0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 79 Yield and tuber size distribution of CO99045-1W/Y grown under different management practices, 2008

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)									
				4-16oz	4-10oz	10-16oz	4-12oz	6-12oz	6-14oz	6-16oz	12-16oz	> 16oz	
1	624	203	421(68) <sup>1</sup>	421	363	58	384	212	249	249	249	39	0
2	655	258	397(61)	397	369	28	369	120	132	148	148	28	0
3	683	203	480(70)	480	400	80	431	200	249	249	249	49	0
4	628	151	477(76)	477	477	0	477	215	215	215	215	0	0
5	772	151	621(80)	606	572	34	572	348	381	381	381	34	15
6	529	151	378(72)	378	350	28	363	221	221	237	237	15	0
Mean	648	186	462(71)	460	422	38	433	219	241	247	247	28	2.5

<sup>1</sup>Figures in brackets indicate % of total

Table 80 Tuber quality of CO99045-1W/Y grown under different management practices, 2008

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
	1	2	1	2
1	0		0	
2	1.9		0	
3	2.3		0	
4	0.5		0	
5	6.0		0	
6	0		0	
Mean	1.8		0	

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 81 Yield and tuber size distribution of ATC00293-1W/Y grown under different management practices, 2009

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	> 10oz
1	556	40	516(93) <sup>1</sup>	464	461(83)	197	304	409	252	55
2	406	89	317(78)	181	298(74)	37	135	163	55	19
3	588	117	471(80)	308	471(80)	80	292	308	80	0
4	403	62	341(84)	255	320(79)	62	206	234	83	21
5	513	52	461(90)	384	446(86)	126	317	369	141	15
6	535	101	434(81)	366	412(77)	209	200	344	231	22

<sup>1</sup>Figures in brackets indicate % of total

Table 82 Tuber quality of ATC00293-1W/Y grown under different management practices, 2009

Field number	External Defects <sup>1</sup>		Internal Defects <sup>2</sup>	
	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>
1	3.9	0	0	0
2	1.5	0	0	0
3	0	0	0	0
4	0.8	0	0	0
5	0	0	0	0
6	3.4	0	0	0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 83 Yield and tuber size distribution of CO00412-5W/Y grown under different management practices, 2009

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	> 10oz	> 16oz
1	587	89	498(85) <sup>1</sup>	378	498(85)	320	178	317	378	178	0
2	440	120	320(73)	228	320(73)	274	46	203	228	46	0
3	603	123	480(80)	249	480(80)	480	0	249	249	0	0
4	618	135	483(78)	283	483(78)	471	12	283	283	12	0
5	726	197	529(73)	323	529(73)	458	71	283	323	71	0
6	707	157	550(78)	366	535(76)	387	148	255	351	163	15

<sup>1</sup>Figures in brackets indicate % of total

Table 84 Tuber quality of CO00412-5W/Y grown under different management practices, 2009

Field number	External Defects <sup>1</sup>		Internal Defects <sup>2</sup>	
	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>
1	2.1	2.6	2.1	2.6
2	2.1	0	2.1	0
3	0	0	0	0
4	1.5	0	1.5	0
5	2.1	0	2.1	0
6	1.7	0	1.7	0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 85 Effect of different management practices on tuber length of CO00405-1R, 2009

Field number	Tuber length (ins)			Total
	< 2ins	2 – 4ins	> 4ins	
1	26	217	148	391
2	29	368	132	529
3	31	346	146	523
4	28	264	48	340
5	26	358	68	452
6	49	349	138	536

Table 86 Effect of different management practices on tuber width of CO00405-1R, 2009

Field number	Tuber width (ins)			Tuber yield (cwt/ac)
	< 1ins	1 – 2ins	> 2ins	
1	14	351	26	351
2	15	509	5	509
3	8	504	11	504
4	6	328	6	328
5	5	447	0	447
6	20	483	34	483

Table 87 Yield and tuber size distribution of Purple Majesty grown under different management practices, 2009

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	>10oz	> 16oz
1	468	120	348(74) <sup>1</sup>	215	348(74)	234	114	175	215	114	0
2	486	249	237(49)	120	237(49)	237	0	120	120	0	0
3	704	228	477(68)	295	458(65)	390	68	252	277	86	19
4	467	163	304(65)	145	304(65)	283	21	145	145	21	0
5	427	184	243(56)	145	243(56)	209	34	129	145	34	0
6	695	163	532(77)	341	532(77)	421	111	301	341	111	0

<sup>1</sup>Figures in brackets indicate % of total

Table 88 Tuber quality of Purple Majesty grown under different management practices, 2009

Field number	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>
1	4.6	5.9
2	1.3	0
3	0	0
4	0	1.3
5	0.7	0
6	0	0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center



Table 89 Yield and tuber size distribution of Yukon Gold grown under different management practices, 2009

Field number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)						
					4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	> 16oz	
1	547	25	523(96) <sup>1</sup>	486	461(84)	191	270	225	424	332	62
2	615	49	566(92)	467	514(84)	341	173	323	415	225	52
3	507	49	458(90)	391	458(90)	221	237	286	391	237	0
4	455	37	418(92)	338	418(92)	304	114	289	338	114	0
5	326	58	268(82)	209	268(82)	188	80	172	209	80	0
6	523	55	468(89)	394	363(69)	246	117	215	289	221	105

<sup>1</sup>Figures in brackets indicate % of total

Table 90 Tuber quality of Yukon Gold grown under different management practices, 2009

Field number	External Defects <sup>1</sup>		Internal Defects <sup>2</sup>	
	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>	External Defects <sup>1</sup>	Internal Defects <sup>2</sup>
1	0	0	0	0
2	0.5	0	0	0
3	0	0	0	0
4	0	0	1.4	0
5	0	0	0	0
6	2.4	0	0	0

<sup>1</sup>Includes growth cracks, knobs and misshapes

<sup>2</sup>Includes hollow heart and brown center

Table 91 Yield and tuber size distribution of CO95051-7W grown under different management practices, 2007

Field number	Total	< 4oz	> 4oz	Yield (cwt/ac)					
				4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz
1	461	84	377	377	354	23	377	0	0
2	378	125	253	238	192	46	223	15	15
3	530	146	384	384	361	23	384	0	0
4	392	161	231	231	231	0	231	0	0
5	277	108	169	169	169	0	169	0	0
6	376	138	238	238	238	0	238	0	0
Mean	402	127	276	273	258	15	270	3	3

Table 92 Tuber quality of CO95051-7W grown under different management practices, 2007

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
	% External Defects <sup>1</sup>	% Internal Defects <sup>2</sup>	% External Defects <sup>1</sup>	% Internal Defects <sup>2</sup>
1	0	0	0	0
2	30.6	4.1	4.1	4.1
3	0	0	0	0
4	0	0	0	0
5	0	5.6	5.6	5.6
6	0	0	0	0
Mean	5.1	1.6	1.6	1.6

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 93 Effect of location and different management practice on yield performance of CO95051-7W - 2005

Location <sup>1</sup>	Yield (cwt/ac)							
	Total	< 4 oz	> 4 oz	4 - 16 oz	4 - 10 oz	10 - 16 oz	12 - 16 oz	> 16 oz
1	465	92	373	373	361	12	7	0
2	476	65	411	411	387	24	0	0
3	335	55	281	281	251	30	6	0

<sup>1</sup> Different grower farms with different management practices.

Table 94 Yield and tuber size distribution of CO96141-4W grown under different management practices, 2007.

Field Number	Yield(cwt/ac)								
	Total	< 4 oz	> 4 oz	4 - 16 oz	4 - 10 oz	10 - 16 oz	6 - 12 oz	12 - 16 oz	> 16 oz
1	384 (404) <sup>1</sup>	84 (88)	300 (316)	300 (316)	277 (296)	23 (20)	300 (239)	0 (0)	0 (0)
2	461 (415)	100 (81)	361 (335)	361 (335)	330 (292)	31 (43)	353 (281)	8 (4)	0 (0)
3	400 (400)	69 (85)	331 (316)	331 (316)	323 (312)	8 (4)	331 (250)	0 (0)	0 (0)
4	392 (377)	131 (123)	261 (254)	261 (254)	253 (238)	8 (16)	261 (192)	0 (0)	0 (0)
5	384 (419)	115 (85)	269 (334)	269 (327)	269 (296)	0 (31)	269 (258)	0 (16)	0 (8)
6	377 (442)	54 (50)	323 (392)	323 (385)	292 (342)	31 (43)	308 (304)	15 (8)	0 (8)
Mean	400 (409)	92 (85)	308 (324)	308 (322)	291 (296)	17 (26)	304 (254)	4 (5)	0 (3)

<sup>1</sup> Figures in brackets indicate two years average

Table 95 Tuber quality of CO96141-4W grown under different management practices, 2007

Field number	% External Defects <sup>1</sup>	% Internal Defects <sup>2</sup>
1	0 (0) <sup>3</sup>	0 (0)
2	0 (0)	0 (0)
3	0 (0)	0 (0)
4	0 (0)	0 (0)
5	0 (1.7)	0 (0)
6	2.0 (1)	0 (0)
Mean	0.3 (0.5)	0 (0)

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

<sup>3</sup> Figures in brackets indicate two years average

Table 96 Effect of location and different management practice on yield performance of CO96141-4W – 2005

Location <sup>1</sup>	Yield (cwt/ac)						
	< 4 oz	> 4 oz	4 – 16 oz	4 – 10 oz	10 – 16 oz	12 – 16 oz	> 16 oz
Total							
1	470	62	408	391	344	46	19
2	574	85	490	482	452	30	8
3	339	65	274	258	213	45	19

<sup>1</sup> Different grower farms with different management practices.

Table 97 Yield and tuber size distribution of CO97043-14W grown under different management practices (two year average), 2006 and 2007

Field Number	Total	< 4oz	> 4oz	4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz	Yield (cwt/ac)	
1	450	154	296	296	273	23	242	0	0		
2	427	154	273	273	254	19	196	8	0		
3	423	127	296	296	289	7	196	0	0		
4	427	139	288	281	231	50	212	19	7		
5	450	123	327	327	285	42	250	19	0		
6	400	131	269	269	254	15	200	8	0		

Table 98 Tuber quality of CO97043-14W grown under different management practices (two year average), 2006 and 2007

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
1	0		0	
2	1.8		0	
3	0		0	
4	0		0	
5	0		0	
6	0		0	

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center

Table 99 Yield and tuber size distribution of CO97065-7W grown under different management practices (two year average), 2006 and 2007

Field Number	Total	< 4oz	> 4oz	4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz	Yield (cwt/ac)										
1	377	127	250	250	211	39	215	0	0											
2	435	135	300	300	277	23	266	0	0											
3	423	142	281	281	269	12	189	4	0											
4	411	150	261	261	254	7	165	0	0											
5	469	127	342	342	335	7	281	0	0											
6	392	115	277	277	265	12	58	0	0											

Table 100 Tuber quality of CO97065-7W grown under different management practices (two year average) 2006 and 2007

Field number	% External Defects <sup>1</sup>		% Internal Defects <sup>2</sup>	
1	1.2		0	
2	0.9		0	
3	2.0		0	
4	1.0		0	
5	0.9		0	
6	0		0	

<sup>1</sup> Includes growth cracks, knobs and misshapes

<sup>2</sup> Includes hollow heart and brown center