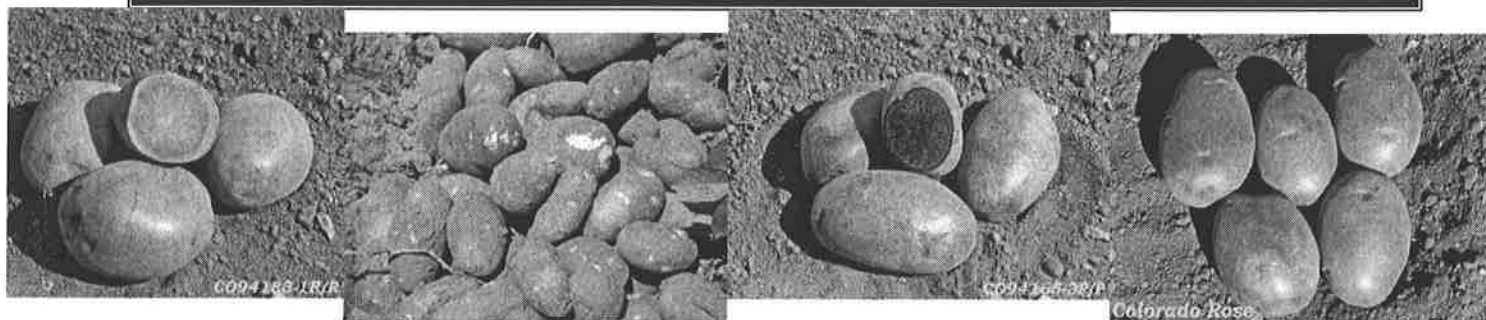


TUBER YIELD AND QUALITY PERFORMANCE OF COLORADO ADVANCED POTATO SELECTIONS

2010 SUMMARY



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-Comments Welcome-

2010 GROWER FIELD MANAGEMENT PRACTICES

FIELD # 1

Summary of soil type and some management practices

<u>Soil Type</u>	<u>Previous Crop</u>	<u>Irrigation Water (in.)</u>	<u>Days to Vine Kill</u>
Sandy Loam	Malt Barley	22	Dry Down (No Kill)

Summary of Fertilizer Applied

<u>lb N/ac</u>	<u>lb P₂O₅/ac</u>	<u>lb K₂O/ac</u>	<u>lb S/ac</u>	<u>lb Mg/ac</u>	<u>lb Zn/ac</u>
145	118	83	36	4.1	2.2

FIELD # 2

Summary of soil type and some management practices

<u>Soil Type</u>	<u>Previous Crop</u>	<u>Irrigation Water (in.)</u>	<u>Days to Vine Kill</u>
Sandy Loam	Malt Barley	18	110

Summary of Fertilizer Applied

<u>lb N/ac</u>	<u>lb P₂O₅/ac</u>	<u>lb K₂O/ac</u>	<u>lb S/ac</u>	<u>lb Mg/ac</u>	<u>lb Zn/ac</u>
150	118	142	36	5.4	2.2

FIELD # 3

Summary of soil type and some management practices

<u>Soil Type</u>	<u>Previous Crop</u>	<u>Irrigation Water (in.)</u>	<u>Days to Vine Kill</u>
Sandy Loam	Potato	18	130

Summary of Fertilizer Applied

<u>lb N/ac</u>	<u>lb P₂O₅/ac</u>	<u>lb K₂O/ac</u>	<u>lb S/ac</u>	<u>lb Ca/ac</u>
140	190	75	66	30

FIELD # 4

Summary of soil type and some management practices

<u>Soil Type</u>	<u>Previous Crop</u>	<u>Irrigation Water (in.)</u>	<u>Days to Vine Kill</u>
Sandy Loam	Potato	18	123

Summary of Fertilizer Applied

<u>lb N/ac</u>	<u>lb P₂O₅/ac</u>	<u>lb K₂O/ac</u>	<u>lb S/ac</u>	<u>lb Ca/ac</u>
107	173	75	53	20

FIELD # 5

Summary of soil type and some management practices

<u>Soil Type</u>	<u>Previous Crop</u>	<u>Irrigation Water (in.)</u>	<u>Days to Vine Kill</u>
Sandy Loam	Barley	22	112

Summary of Fertilizer Applied

<u>lb N/ac</u>	<u>lb P₂O₅/ac</u>	<u>lb K₂O/ac</u>	<u>lb S/ac</u>
60	0	0	20

FIELD # 6

Summary of soil type and some management practices

<u>Soil Type</u>	<u>Previous Crop</u>	<u>Irrigation Water (in.)</u>	<u>Days to Vine Kill</u>
Sandy Loam	Barley	22	110

Summary of Fertilizer Applied

<u>lb N/ac</u>	<u>lb P₂O₅/ac</u>	<u>lb K₂O/ac</u>	<u>lb S/ac</u>
103	0	0	20

Table 1 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	< 4oz	> 4oz	4-16oz	Yield (cwt/ac)				
					4-10oz	10-16oz	6 - 12 oz	2 -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 2 Effect of in-row seed piece spacing on tuber quality of AC96052-1RU, (two year average) 2006 and 2008

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

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 3 Effect of vine kill date on yield and tuber size distribution of AC96052-1RU, 2006.

Vine Kill (DAP) ¹	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

¹Days after planting

Table 4 Effect of vine kill date on tuber quality of AC96052-1RU, 2006

Vine kill (DAP) ¹	% External Defects ²	% Internal Defects ³	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

¹Days after planting

²Includes growth cracks, knobs and misshapes

³Includes hollow heart and brown center

Table 5 Yield and tuber size distribution of AC96052-1RU grown under different management practices, 2005.

Field Number	Total	Yield (cwt/ ac)						
		< 4oz	> 4oz	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 6 Yield and tuber size distribution of AC96052-1RU grown under different management practices, 2004.

Field Number	Total	Yield (cwt/ac)						
		< 4oz	> 4oz	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 7 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) ¹	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

¹Figures in brackets indicate % of total

Table 8 Tuber quality of AC99375-1RU grown under different management practices, 2009

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

¹Includes growth cracks, knobs and misshapes

²Includes hollow heart and brown center

Table 9 Yield and tuber size distribution of AC99375-1RU grown under different management practices, 2008.

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

¹Figures in brackets indicate % of total

Table 10 Tuber quality of AC99375-1RU grown under different management practices, 2008

Field number	% External Defects ¹	% Internal Defects ²
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

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 11. Yield and tuber size distribution of CO99053-3RU grown under different management practices, 2010

Field Number	Total	< 4oz	> 4oz	> 6oz	4-16oz	4-10oz	10-16oz	>10oz	6-16oz	>16oz
	Yield (cwt/ac)									
1	675	32	643(95) ¹	589	471	220	251	423	417	172
2	554	80	474(86)	375	425	317	108	157	326	49
3	476	89	387(81)	301	387	317	70	71	301	0
4	473	49	424(90)	381	338	218	120	206	295	86
5	563	68	495(88)	384	449	298	151	197	338	46
6	655	31	624(95)	550	526	320	206	304	452	98
Mean	566	58	508(90)	430	433	282	151	226	355	75

¹ Figures in brackets indicate % of total.

Table 12. Tuber quality of CO99053-3RU grown under different management practices, 2010

Field Number	% Growth			% External ¹	%Hollow	% Brown	% Internal ²	Specific Gravity
	Cracks	% Knobs	% Misshapes	Defects	Heart	Center	Defects	
1	0	0	0	0	0	0	0	1.078
2	1.1	0	0	1.1	0	0	0	1.081
3	2.5	0	0	2.5	0	0	0	1.084
4	0	0	0	0	0	0	0	1.079
5	0.6	0	0.6	1.2	8.1	0	8.1	1.087
6	1.4	0	0.9	2.3	5.6	0	5.6	1.097
Mean	0.9	0	0.3	1.2	2.3	0	2.3	1.084

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.

Table 13 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) ¹	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

¹Figures in brackets indicate % of total

Table 14 Tuber quality of CO99053-3RU grown under different management practices, 2009

Field number	External Defects ¹		Internal Defects ²
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

¹Includes growth cracks, knobs and misshapes

²Includes hollow heart and brown center

Table 15 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) ¹	387	338	49	350	138	175	175	175	37	15
2	384	104	280(73)	280	249	31	280	172	172	172	172	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

¹Figures in brackets indicate % of total

Table 16 Tuber quality of CO99053-3RU grown under different management practices, 2008

Field number	% External Defects ¹		% Internal Defects ²	
	1	2	1	2
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

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 17 Yield and tuber size distribution of CO99053-4RU grown under different management practices, 2010

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4-16oz	4-10oz	10-16oz	>10oz	6-16oz	>16oz
1	444	60	384(87) ¹	338	384	309	75	75	338	0
2	428	71	357(83)	206	357	329	28	28	206	0
3	424	80	344(81)	258	329	212	117	132	243	15
4	504	61	443(88)	412	409	308	101	135	378	34
5	324	105	219(68)	132	219	191	28	28	132	0
6	449	65	384(86)	298	384	304	80	80	298	0
Mean	429	74	355(83)	274	347	275	72	80	266	8

¹ Figures in brackets indicate % of total.

Table 18. Tuber quality of CO99053-4RU grown under different management practices, 2010

Field Number	% Growth			% External ¹ Defects	%Hollow Heart	% Brown Center	% Internal ² Defects	Specific Gravity
	Cracks	% Knobs	% Misshapes					
1	1.3	0	0	1.3	0	0	0	1.068
2	0	0	0	0	0	0	0	1.083
3	0	0	0	0	0	0	0	1.070
4	0	0	0	0	0	0	0	1.079
5	3.8	0	0	3.8	0	0	0	1.081
6	0	0	0	0	0	0	0	1.097
Mean	0.9	0	0	0.9	0	0	0	1.080

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.

Table 19 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) ¹	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

¹Figures in brackets indicate % of total

Table 20 Tuber quality of CO99053-4RU grown under different management practices, 2009

Field number	External Defects ¹		Internal Defects ²	
	External Defects ¹	Internal Defects ²	External Defects ¹	Internal Defects ²
1	4.5	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0

¹Includes growth cracks, knobs and misshapes

²Includes hollow heart and brown center

Table 21 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) ¹	246	246	0	246	105	105	175	0	0	
2	345	148	197(57)	197	166	31	197	120	120	120	0	0	
3	406	117	289(71)	289	268	21	289	163	163	163	0	0	
4	363	151	212(58)	212	212	0	212	80	80	80	0	0	
5	394	80	314(80)	314	280	34	314	191	191	191	0	0	
6	384	83	301(78)	301	280	21	289	191	191	203	12	0	
Mean	381	121	260(68)	260	242	18	258	142	142	155	2	0	

¹Figures in brackets indicate % of total

Table 22 Tuber quality of CO99053-4RU grown under different management practices, 2008

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

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 23. Yield and tuber size distribution of CO99100-1RU grown under different management practices, 2010

Field Number	Total	< 4oz	> 4oz	> 6oz	4-16oz	4-10oz	10-16oz	>10oz	6-16oz	>16oz
Yield (cwt/ac)										
1	459	62	397(87) ¹	304	397	289	108	108	304	0
2	378	52	326(86)	243	326	286	40	40	243	0
3	446	92	354(79)	237	335	240	95	114	218	19
4	400	52	348(87)	264	348	237	111	111	264	0
5	400	71	329(82)	154	329	329	0	0	154	0
6	461	55	406(88)	351	351	255	96	151	295	55
Mean	424	64	360(85)	259	348	273	75	87	246	12

¹ Figures in brackets indicate % of total.

Table 24. Tuber quality of CO99100-1RU grown under different management practices, 2010

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External ¹ Defects	%Hollow Heart	% Brown Center	% Internal ² Defects	Specific Gravity
1	4.3	0	0	4.3	0	0	0	1.067
2	7.9	0	0	7.9	0	0	0	1.081
3	0	0	0	0	0	0	0	1.071
4	0	0	0	0	0	0	0	1.072
5	0	0	0	0	0	0	0	1.078
6	5.1	0	0	5.1	0	0	0	1.090
Mean	2.9	0	0	2.9	0	0	0	1.078

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.

Table 25 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) ¹	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

¹Figures in brackets indicate % of total

Table 26 Tuber quality of CO99100-1RU grown under different management practices, 2009.

Field number	External Defects ¹	Internal Defects ²
1	0	0
2	0	0
3	0	0
4	0	0
5	2.1	0
6	0	0

¹Includes growth cracks, knobs and misshapes

²Includes hollow heart and brown center

Table 27 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) ¹	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

¹Figures in brackets indicate % of total

Table 28 Tuber quality of CO99100-1RU grown under different management practices, 2008

Field number	% External Defects ¹	% Internal Defects ²
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

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 29. Yield and tuber size distribution of Rio Grande Russet grown under different management practices, 2010

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4-16oz	4-10oz	10-16oz	>10oz	6-16oz	>16oz
1	584	46	538(92) ¹	446	515	407	108	131	423	23
2	504	227	277(55)	120	277	277	0	0	120	0
3	480	178	302(63)	103	302	302	0	0	103	0
4	719	80	639(89)	556	617	483	134	157	424	22
5	538	74	464(86)	354	430	301	129	163	320	34
6	477	49	428(90)	314	409	295	114	132	295	19
Mean	550	109	441(80)	316	425	344	81	97	281	16

¹ Figures in brackets indicate % of total.

Table 30. Tuber quality of Rio Grande Russet grown under different management practices, 2010

Field Number	% Growth			% External ¹ Defects	%Hollow Heart	% Brown Center	% Internal ² Defects	Specific Gravity
	Cracks	% Knobs	% Misshapes					
1	0	1.5	0	1.5	0	0	0	1.079
2	0	0	0	0	0	0	0	1.088
3	2.5	0	0	2.5	0	0	0	1.084
4	0	0	0	0	0	0	0	1.081
5	1.7	0	0	1.7	0	0	0	1.102
6	3.2	1.9	0	5.1	19.0	0	19.0	1.103
Mean	1.2	0.6	0	2.0	3.2	0	3.2	1.090

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.

Table 31 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) ¹	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

¹Figures in brackets indicate % of total

Table 32 Tuber quality of Rio Grande Russet grown under different management practices, 2009

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

¹Includes growth cracks, knobs and misshapes

²Includes hollow heart and brown center

Table 33. Yield and tuber size distribution of Russet Norkotah (sel. 8) grown under different management practices, 2010

Field Number	Total	< 4oz	> 4oz	> 6oz	4-16oz	4-10oz	10-16oz	>10oz	6-16oz	>16oz
		Yield (cwt/ac)								
1	590	52	538(91) ¹	431	476	284	192	254	369	62
2	470	83	387(82)	308	301	169	132	218	221	86
3	535	145	390(73)	280	390	258	132	132	280	0
4	578	107	471(82)	363	403	311	92	160	295	68
5	446	37	409(92)	329	332	271	61	138	252	77
6	597	34	563(94)	523	391	228	163	335	351	172
Mean	536	76	460(86)	372	382	254	129	206	295	78

¹ Figures in brackets indicate % of total.

Table 34. Tuber quality of Russet Norkotah (sel.8) grown under different management practices, 2010

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External ¹ Defects	%Hollow Heart	% Brown Center	% Internal ² Defects	Specific Gravity
1	0	0	0	0	0	0	0	1.081
2	0	6.0	0	6.0	0	0	0	1.084
3	0	0	1.2	1.2	0	0	0	1.088
4	0	0	3.2	3.2	0	0	0	1.079
5	2.4	1.3	3.4	7.1	0	0	0	1.096
6	0	1.5	0	1.5	9.7	0	9.7	1.092
Mean	0.4	1.5	1.3	3.2	1.6	0	1.6	1.087

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.

Table 35 Yield and tuber size distribution of CO98012-5R 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	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 36 Tuber quality of CO98012-5R grown under different management practices(two year average), 2007 and 2008

Field number	% External Defects ¹	% Internal Defects ²
1	0.4	0
2	3.4	0
3	0	0
4	0	0
5	0	0
6	0	0

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 37 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) ¹	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

¹Figures in brackets indicate % of total

Table 38 Tuber quality of CO99076-6R grown under different management practices, 2009.

Field number	External Defects ¹	Internal Defects ²
1	6.7	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0

¹Includes growth cracks, knobs and misshapes

²Includes hollow heart and brown center

Table 39 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	2	3	4	5	6
1	320	135	185(58) ¹	185	185	0	185	77	77	77	77	0	0	0	0	0	0	
2	341	86	255(75)	255	215	40	255	163	163	163	163	0	0	0	0	0	0	
3	427	138	289(68)	289	289	0	289	145	145	145	145	0	0	0	0	0	0	
4	351	120	231(66)	231	219	12	231	111	111	111	111	0	0	0	0	0	0	
5	449	145	304(68)	304	261	43	292	178	191	191	191	13	0	0	0	0	0	
6	415	197	218(53)	218	209	9	218	117	117	117	117	0	0	0	0	0	0	
Mean	384	137	247(64)	247	230	17	245	132	134	134	134	2	0	0	0	0	0	

¹ Figures in brackets indicate % of total

Table 40 Tuber quality of CO99076-6R grown under different management practices, 2008

Field number	% External Defects ¹	% Internal Defects ²
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

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 41 Tuber diameter of CO99076-6R grown under different management practices, 2008

Field number	< 2 in. dia ¹	2 – 4 in. dia.	> 4 in. dia.	> 2 in. < 10 oz	> 2 in. > 10 oz	> 2 in. dia.
	Yield (cwt/ac)					
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

¹ dia = Diameter

Table 42 Yield and tuber size distribution of CO99256-2R grown under different management practices, 2009

Field Number	Total	< 4oz	> 4oz	Yield (cwt/ac)							
				> 6oz	4 - 16oz	4 - 10oz	10-16oz	6 - 12oz	6 - 16oz	> 10oz	> 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

¹Figures in brackets indicate % of total

Table 43 Tuber quality of CO99256-2R grown under different management practices, 2009

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

¹Includes growth cracks, knobs and misshapes

²Includes hollow heart and brown center

Table 44 Yield and tuber size distribution of CO99256-2R grown under different management practices, 2008.

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

¹Figures in brackets indicate % of total

Table 45 Tuber quality of CO99256-2R grown under different management practices, 2008

Field number	% External Defects ¹	% Internal Defects ²
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

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 46 Tuber diameter for CO99256-2R grown under different management practices, 2008

Field number	< 2 ins. dia ¹	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

¹ dia = Diameter

Table 47. Yield and tuber size distribution of CO00277-2R grown under different management practices, 2010

Field Number	Total	< 4oz	> 4oz	> 6oz	4-16oz	4-10oz	10-16oz	>10oz	6-16oz	>16oz
		Yield (cwt/ac)								
1	305	108	197(65) ¹	120	197	151	46	46	120	0
2	184	49	135(73)	71	135	135	0	0	71	0
3	335	169	166(50)	71	166	157	9	9	71	0
4	461	117	344(75)	188	344	332	12	12	188	0
5	126	68	58(46)	37	58	49	9	9	37	0
6	135	55	80(59)	58	58	49	9	31	37	22
Mean	258	94	164(65)	91	160	146	14	18	87	4

¹ Figures in brackets indicate % of total.

Table 48. Tuber quality of CO00277-2R grown under different management practices, 2010

Field Number	% Growth		% External ¹			%Hollow Heart	% Brown Center	% Internal ² Defects	Specific Gravity
	Cracks	% Knobs	% Misshapes	Defects					
1	0	0	0	0	0	0	0	1.061	
2	0	0	0	0	0	0	0	1.074	
3	0	0	0	0	0	0	0	1.076	
4	0	0	0	0	0	0	0	1.073	
5	0	0	0	0	0	0	0	1.073	
6	6.8	0	0	6.8	0	0	0	1.072	
Mean	1.1	0	0	1.1	0	0	0	1.072	

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.

Table 49. Tuber diameter of CO00277-2R grown under different management practices, 2010

Field Number	< 2 in. dia. ¹	2 – 4 in. dia.	4 in. dia.	> 2 in. < 10oz	> 2 in. > 10oz	> 2 in. dia.
	Yield (cwt/ac)					
1	57	248	0	198	50	248
2	25	159	0	159	0	159
3	64	271	0	261	10	271
4	31	430	0	384	46	430
5	49	77	0	62	15	77
6	32	81	22	74	29	103
Mean	43	211	4	190	25	215

¹ dia. = Diameter

Table 50 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) ¹	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

¹Figures in brackets indicate % of total

Table 51 Tuber quality of CO00277-2R grown under different management practices, 2009

Field number	External Defects ¹	Internal Defects ²
1	0	0
2	4.3	0
3	0	0
4	0	0
5	0	0
6	0	0

¹Includes growth cracks, knobs and misshapes

²Includes hollow heart and brown center

Table 52. Yield and tuber size distribution of CO00291-5R grown under different management practices, 2010

Field Number	Total	< 4oz	> 4oz	> 6oz	4-16oz	4-10oz	10-16oz	>10oz	6-16oz	>16oz
	Yield (cwt/ac)									
1	667	129	538(81) ¹	392	538	453	85	85	392	0
2	427	95	332(78)	172	332	280	52	52	172	0
3	446	258	188(42)	43	188	188	0	0	43	0
4	546	161	385(71)	231	385	363	22	22	231	0
5	508	166	342(67)	194	342	311	31	31	194	0
6	335	184	151(45)	46	151	142	9	9	46	0
Mean	488	166	323(66)	180	323	290	33	33	180	0

¹ Figures in brackets indicate % of total.

Table 53. Tuber quality of CO00291-5R grown under different management practices, 2010

Field Number	% Growth			% External ¹	%Hollow Heart	% Brown Center	% Internal ²	Specific Gravity
	Cracks	% Knobs	% Misshapes	Defects			Defects	
1	0	0	0	0	0	0	0	1.078
2	0	0	0	0	0	0	0	1.086
3	0	0	0	0	0	0	0	1.080
4	0	0	0	0	0	0	0	1.082
5	0	0	0	0	0	0	0	1.090
6	1.8	0	0	1.8	0	0	0	1.069
Mean	0.3	0	0	0.3	0	0	0	1.081

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.

Table 54. Tuber diameter of CO00291-5R grown under different management practices, 2010

Field Number	< 2 in. dia. ¹	2 – 4 in. dia.	4 in. dia.	> 2 in. < 10oz	> 2 in. > 10oz	> 2 in. dia.
	Yield (cwt/ac)					
1	51	616	0	529	87	616
2	37	390	0	338	52	390
3	111	335	0	335	0	335
4	83	463	0	421	42	463
5	80	428	0	397	31	428
6	111	224	0	209	15	224
Mean	79	409	0	372	38	409

¹dia. = Diameter

Table 55 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) ¹	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

¹Figures in brackets indicate % of total

Table 56 Tuber quality of CO00291-5R grown under different management practices, 2009

Field number	External Defects ¹	Internal Defects ²
1	0	0
2	0	0
3	0	0
4	0	0
5	0.9	0
6	0	0

¹Includes growth cracks, knobs and misshapes

²Includes hollow heart and brown center

Table 57. Yield and tuber size distribution of SANGRE (S10) grown under different management practices, 2010

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4-16oz	4-10oz	10-16oz	>10oz	6-16oz	>16oz
1	819	95	724(88) ¹	593	638	431	207	294	507	86
2	520	111	409(79)	249	409	354	55	55	249	0
3	523	98	425(81)	338	394	326	68	98	308	31
4	526	68	458(87)	357	437	372	65	86	335	21
5	354	55	299(85)	271	225	148	77	151	197	74
6	218	46	172(79)	111	172	123	49	49	111	0
Mean	493	79	415(84)	320	379	292	87	122	285	35

¹ Figures in brackets indicate % of total.

Table 58. Tuber quality of SANGRE (S10) grown under different management practices, 2010

Field Number	% Growth			% External ¹ Defects	%Hollow Heart	% Brown Center	% Internal ² Defects	Specific Gravity
	Cracks	% Knobs	% Misshapes					
1	0	0	0	0	0	0	0	1.070
2	0	0	0	0	0	0	0	1.076
3	0	0	0	0	0	0	0	1.068
4	0	0	0	0	0	0	0	1.071
5	0	0	0	0	0	0	0	1.084
6	2.8	0	0	0	0	0	0	1.069
Mean	0.5	0	0	0.5	0	0	0	1.073

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.

Table 59. Tuber diameter of SANGRE (S10) grown under different management practices, 2010

Field Number	< 2 in. dia. ¹	2 – 4 in. dia.	4 in. dia.	Yield (cwt/ac)		
				> 2 in. < 10oz	> 2 in. > 10oz	> 2 in. dia.
1	38	781	0	487	294	781
2	44	476	0	351	125	476
3	43	480	0	366	114	480
4	15	511	0	398	113	511
5	35	319	0	160	159	319
6	17	201	0	125	76	201
Mean	32	461	0	315	147	461

¹dia. = Diameter

Table 60 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	Yield (cwt/ac)					
				4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz
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 61 Tuber quality of AC97521-1R/Y grown under different management practices (two year average), 2006 and 2007

Field number	% External Defects ¹		% Internal Defects ²	
	< 4oz	> 4oz	12-16oz	> 16oz
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				

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 62 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 63 Tuber quality of CO97226-2R/R grown under different management practices (two year average), 2006 and 2007

Field number	% External Defects ¹		% Internal Defects ²	
1	4.0		0	0
2	0		0	0
3	0		0	0
4	0		0	0
5	0		0	0
6	0.9		0	0

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 64 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	4-16oz	4-10oz	10-16oz	6-12oz	12-16oz	> 16oz	Yield (cwt/ac)					
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 65 Tuber quality of CO97232-1R/Y grown under different management practices (two year average), 2006 and 2007

Field number	% External Defects ¹		% Internal Defects ²	
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

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 66 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 67 Tuber quality of CO97232-2R/Y grown under different management practices (two year average), 2006 and 2007

Field number	% External Defects ¹	% Internal Defects ²
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

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 68 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 69 Tuber quality of CO97233-3R/Y grown under different management practices (two year average), 2006 and 2007

Field number	% External Defects ¹	% Internal Defects ²
1	4.7	0.7
2	0.7	0.7
3	2.0	0
4	4.2	1.7
5	0	2.8
6	5.5	0.7

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 70 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 71 Tuber quality of CO97222-1R/R grown under different management practices (two year average), 2007 and 2008

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

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 72 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	0	0	40	0	0
3	494	425	69	69	0	0	42	25	0
4	415	382	33	33	0	0	19	0	0
5	503	389	114	114	0	0	66	0	0
6	421	350	71	71	0	0	22	0	0

Table 73 Tuber quality of CO97227-2P/PW grown under different management practices (two year average), 2007 and 2008

Field number	% External Defects ¹		% Internal Defects ²	
	Yield (cwt/ac)	%	Yield (cwt/ac)	%
1	401	0	54	0
2	406	10.6	80	0
3	425	2.6	69	0
4	382	1.7	33	0
5	389	0.4	114	0
6	350	0	71	0

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 74 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) ¹	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

¹Figures in brackets indicate % of total

Table 75 Tuber quality of AC99329-7PW/Y grown under different management practices, 2009.

Field number	External Defects ¹		Internal Defects ²	
	External Defects ¹	Internal Defects ²	External Defects ¹	Internal Defects ²
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

¹Includes growth cracks, knobs and misshapes

²Includes hollow heart and brown center

Table 76 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) ¹	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	363	400	400	400	37	0
Mean	553	155	398 (70)	393	306	87	359	220	220	250	254	254	34	6

¹Figures in brackets indicate % of total

Table 77 Tuber quality of AC99329-7PW/Y grown under different management practices, 2008

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

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 78 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	> 16oz	
1	498	92	406(82) ¹	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

¹Figures in brackets indicate % of total

Table 79 Tuber quality of AC99330-1P/Y grown under different management practices, 2009

Field number	External Defects ¹		Internal Defects ²	
	External Defects ¹	Internal Defects ²	External Defects ¹	Internal Defects ²
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

¹Includes growth cracks, knobs and misshapes

²Includes hollow heart and brown center

Table 80 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) ¹	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

¹Figures in brackets indicate % of total

Table 81 Tuber quality of AC99330-1P/Y grown under different management practices, 2008

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

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 82 Yield and tuber size distribution of CO99045-1 W/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	584	49	535(92) ¹	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

¹Figures in brackets indicate % of total

Table 83 Tuber quality of CO99045-1 W/Y grown under different management practices, 2009

Field number	External Defects ¹	Internal Defects ²
1	0	0
2	0	0
3	0	0
4	1.2	0
5	0	0
6	3.5	0

¹Includes growth cracks, knobs and misshapes

²Includes hollow heart and brown center

Table 84 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) ¹	421	363	58	384	212	249	249	39	0
2	655	258	397(61)	397	369	28	369	120	132	148	28	0
3	683	203	480(70)	480	400	80	431	200	249	249	49	0
4	628	151	477(76)	477	477	0	477	215	215	215	0	0
5	772	151	621(80)	606	572	34	572	348	381	381	34	15
6	529	151	378(72)	378	350	28	363	221	221	237	15	0
Mean	648	186	462(71)	460	422	38	433	219	241	247	28	2.5

¹Figures in brackets indicate % of total

Table 85 Tuber quality of CO99045-1W/Y grown under different management practices, 2008

Field number	% External Defects ¹	% Internal Defects 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

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center

Table 86. Yield and tuber size distribution of ATC00293-1W/Y grown under different management practices, 2010

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4-16oz	4-10oz	10-16oz	>10oz	6-16oz	>16oz
1	676	60	616(91) ¹	475	564	375	189	241	423	52
2	594	102	492(83)	344	492	394	98	98	344	0
3	541	160	381(70)	237	381	316	65	65	237	0
4	722	82	640(89)	535	606	366	240	274	501	34
5	480	59	421(88)	357	329	194	135	228	264	92
6	480	86	394(82)	307	394	323	71	71	308	0
Mean	582	92	491(84)	376	461	328	133	163	346	30

¹ Figures in brackets indicate % of total.

Table 87. Tuber quality of ATC00293-1W/Y grown under different management practices, 2010

Field Number	% Growth			% External ¹ Defects	%Hollow Heart	% Brown Center	% Internal ² Defects	Specific Gravity
	Cracks	% Knobs	% Misshapes					
1	0	0	0	0	0	0	0	1.070
2	0	0	0	0	0	0	0	1.073
3	1.1	0	0	1.1	0	0	0	1.079
4	0	0	0	0	0	0	0	1.067
5	40	0	0	40	1.9	0	1.9	1.072
6	1.1	0	0	1.1	5.7	0	5.7	1.083
Mean	7.0	0	0	7.0	1.3	0	1.3	1.074

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.

Table 88 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	> 16oz
1	556	40	516(93) ¹	464	461(83)	264	197	304	409	252	55
2	406	89	317(78)	181	298(74)	261	37	135	163	55	19
3	588	117	471(80)	308	471(80)	391	80	292	308	80	0
4	403	62	341(84)	255	320(79)	258	62	206	234	83	21
5	513	52	461(90)	384	446(86)	320	126	317	369	141	15
6	535	101	434(81)	366	412(77)	203	209	200	344	231	22

¹Figures in brackets indicate % of total

Table 89 Tuber quality of ATC00293-1W/Y grown under different management practices, 2009

Field number	External Defects ¹		Internal Defects ²	
	External Defects ¹	Internal Defects ²	External Defects ¹	Internal Defects ²
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

¹Includes growth cracks, knobs and misshapes

²Includes hollow heart and brown center

Table 90. Tuber diameter of CO00405-1R (Fingerling) grown under different management practices, 2010

Field Number	< 1in. dia. ¹	1 –1 1/2in. dia.	1 1/2 in. – 2 in. dia.	> 2in. dia.	Total
	Yield (cwt/ac)				
1	8	123	271	25	427
2	9	117	185	22	333
3	12	119	175	6	312
4	3	74	197	15	289
5	15	154	83	0	252
6	6	58	197	34	295
Mean	9	108	185	17	318

¹ dia. = Diameter

Table 91. Tuber length of CO00405-1R (Fingerling) grown under different management practices, 2010

Field Number	< 2 in	2 – 4 in.	> 4 in	Total
	Yield (cwt/ac)			
1	17	191	217	425
2	15	212	102	329
3	31	225	58	314
4	15	215	58	288
5	28	200	25	253
6	12	175	105	292
Mean	20	203	94	317

Table 92. Tuber quality of CO00405-1R (Fingerling) grown under different management practices, 2010

Field Number	% Growth			% External ¹	%Hollow	% Brown	% Internal ²	Specific Gravity
	Cracks	% Knobs	% Misshapes	Defects	Heart	Center	Defects	
1	0	0	0	0	0	0	0	1.071
2	0	0	0	0	0	0	0	1.079
3	0	0	0	0	0	0	0	1.070
4	0	0	0	0	0	0	0	1.081
5	0	0	0	0	0	0	0	1.080
6	0	0	0	0	0	0	0	1.073
Mean	0	0	0	0	0	0	0	1.076

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.

Table 93 Effect of different management practices on tuber length of CO00405-1R, 2009

Field number	Tuber yield (cwt/ac)			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 94 Effect of different management practices on tuber width of CO00405-1R, 2009

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

Table 95. Yield and tuber size distribution of CO00412-5W/Y grown under different management practices, 2010

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4-16oz	4-10oz	10-16oz	>10oz	6-16oz	>16oz
1	404	112	292(72) ¹	183	292	246	46	46	183	0
2	575	203	372(65)	188	372	341	31	31	188	0
3	357	188	169(47)	98	169	135	34	34	98	0
4	458	126	332(73)	215	332	286	46	46	215	0
5	292	58	234(80)	197	215	129	86	105	178	19
6	357	224	133(37)	71	133	133	0	0	71	0
Mean	407	152	255(63)	159	252	212	41	44	156	4

¹ Figures in brackets indicate % of total.

Table 96. Tuber quality of CO00412-5W/Y grown under different management practices, 2010

Field Number	% Growth			% External ¹ Defects	%Hollow Heart	% Brown Center	% Internal ² Defects	Specific Gravity
	Cracks	% Knobs	% Misshapes					
1	0	0	0	0	0	0	0	1.081
2	0	0	0	0	0	0	0	1.084
3	0	0	0	0	0	0	0	1.088
4	0	0	0	0	0	0	0	1.079
5	7.3	1.1	4.2	12.6	0	0	0	1.096
6	0	0	0	0	0	0	0	1.092
Mean	1.2	0.2	0.7	2.1	0	0	0	1.087

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.

Table 97 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) ¹	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

¹Figures in brackets indicate % of total

Table 98 Tuber quality of CO00412-5W/Y grown under different management practices, 2009

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

¹Includes growth cracks, knobs and misshapes

²Includes hollow heart and brown center

Table 99. Tuber diameter of CO00415-1R (Fingerling) grown under different management practices, 2010

Field Number	< 1in. dia. ¹	1 – 1 1/2 in. dia.	1 1/2 in. – 2 in. dia.	> 2 in. dia.	Total
	Yield (cwt/ac)				
1	9	128	311	68	516
2	6	123	240	37	406
3	6	135	225	12	378
4	6	95	129	19	249
5	6	111	234	25	376
6	3	34	169	98	304
Mean	6	104	218	43	372

¹ dia. = Diameter

Table 100. Tuber length of CO00415-1R (Fingerling) grown under different management practices, 2010

Field Number	< 2 in.	2 – 4 in.	> 4 in.	Total
	Yield (cwt/ac)			
1	22	294	198	514
2	28	261	123	412
3	22	304	52	378
4	25	163	62	250
5	19	304	37	360
6	15	154	126	295
Mean	22	247	100	368

Table 101. Tuber quality of CO00415-1R (Fingerling) grown under different management practices, 2010

Field Number	% Growth		% External ¹			%Hollow Heart	% Brown Center	% Internal ² Defects	Specific Gravity
	Cracks	% Knobs	% Misshapes	Defects					
1	0	0	0	0	0	0	0	1.064	
2	0	0	0	0	0	0	0	1.069	
3	0	0	0	0	0	0	0	1.073	
4	0	0	0	0	0	0	0	1.072	
5	0	0	0	0	0	0	0	1.070	
6	0	0	0	0	0	0	0	1.068	
Mean	0	0	0	0	0	0	0	1.069	

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.

Table 102. Yield and tuber size distribution of CO01399-10P/Y grown under different management practices, 2010

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4-16oz	4-10oz	10-16oz	>10oz	6-16oz	>16oz
1	480	177	303(63) ¹	185	303	283	20	20	185	0
2	510	190	320(63)	132	320	311	9	9	132	0
3	375	160	215(57)	138	215	184	31	31	138	0
4	480	135	345(72)	261	345	283	62	62	261	0
5	397	71	326(82)	271	307	132	175	194	252	19
6	465	157	308(66)	141	308	308	0	0	141	0
Mean	451	148	303(67)	188	300	250	50	53	185	3

¹ Figures in brackets indicate % of total.

Table 103. Tuber quality of CO01399-10P/Y grown under different management practices, 2010

Field Number	% Growth			% External ¹ Defects	%Hollow Heart	% Brown Center	% Internal ² Defects	Specific Gravity
	Cracks	% Knobs	% Misshapes					
1	4.7	0	0	4.7	0	0	0	1.068
2	0	0	0	0	0	0	0	1.070
3	1.6	0	0	1.6	0	0	0	1.068
4	0	0	0	0	0	0	0	1.071
5	28	0	0	28	10	0	0	1.071
6	2.6	0	0	2.6	0	0	0	1.073
Mean	6.1	0	0	6.1	1.7	0	1.7	1.070

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.

Table 104. Yield and tuber size distribution of Purple Majesty grown under different management practices, 2010

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4-16oz	4-10oz	10-16oz	>10oz	6-16oz	>16oz
1	672	288	384(57) ¹	180	384	349	35	35	180	0
2	587	286	301(51)	105	301	301	0	0	105	0
3	498	366	132(27)	68	132	113	19	19	68	0
4	489	295	194(40)	68	194	178	16	15	68	0
5	603	274	329(55)	157	329	292	37	37	157	0
6	495	224	271(55)	154	271	228	43	43	154	0
Mean	557	289	269(48)	122	269	244	25	25	122	0

¹ Figures in brackets indicate % of total.

Table 105. Tuber quality of Purple Majesty grown under different management practices, 2010

Field Number	% Growth			% External ¹ Defects	%Hollow Heart	% Brown Center	% Internal ² Defects	Specific Gravity
	Cracks	% Knobs	% Misshapes					
1	0	0	0	0	0	0	0	1.068
2	0	0	0	0	0	0	0	1.082
3	0	0	0	0	0	0	0	1.074
4	0	0	0	0	0	0	0	1.080
5	0	0	0	0	0	0	0	1.086
6	0	0	0	0	0	0	0	1.082
Mean	0	0	0	0	0	0	0	1.079

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.

Table 106. Yield and tuber size distribution of Yukon Gold grown under different management practices, 2010

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4-16oz	4-10oz	10-16oz	>10oz	6-16oz	>16oz
1	616	52	564(92) ¹	529	526	300	226	264	490	38
2	618	52	566(92)	498	498	240	258	326	431	68
3	520	71	449(86)	360	449	357	92	92	360	0
4	400	40	360(90)	286	345	250	95	111	271	15
5	194	13	181(93)	169	141	43	98	138	129	40
6	461	40	421(91)	360	387	221	166	200	326	34
Mean	468	45	424(91)	367	391	235	156	189	335	33

¹ Figures in brackets indicate % of total.

Table 107. Tuber quality of Yukon Gold grown under different management practices, 2010

Field Number	% Growth			% External ¹ Defects	%Hollow Heart	% Brown Center	% Internal ² Defects	Specific Gravity
	Cracks	% Knobs	% Misshapes					
1	0	0	0	0	0	0	0	1.071
2	0	0	0	0	0	0	0	1.083
3	0	0	0	0	0	0	0	1.082
4	0	0	0	0	0	0	0	1.081
5	0	0	0	0	10	0	10	1.086
6	0	0	0	0	0	0	0	1.090
Mean	0	0	0	0	1.7	0	1.7	1.082

¹ Includes growth cracks, knobs and misshapes

² Includes hollow heart and brown center.