

# **Tuber Yield and Quality Performance of Colorado Advanced Potato Selections**

## **2011 DATA SUMMARY**



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## 2011 GROWER FIELD MANAGEMENT PRACTICES

### FIELD #1

#### *Summary of Total Nutrients Used*

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<u>lb N/ac</u>	<u>lb P<sub>2</sub>O<sub>5</sub></u>	<u>lb K<sub>2</sub>O/ac</u>	<u>lb S/ac</u>	<u>lb Zn/ac</u>
110	140	0	35	2

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### FIELD #2

#### *Summary of Total Nutrients Used*

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<u>lb N/ac</u>	<u>lb P<sub>2</sub>O<sub>5</sub></u>	<u>lb K<sub>2</sub>O/ac</u>	<u>lb S/ac</u>	<u>lb Zn/ac</u>
143	140	0	35	2

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### FIELD #3

#### *Summary of Soil Type and Some Management Practices*

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<u>Soil Type</u>	<u>Previous Crop</u>	<u>Irrigation Water</u>	<u>Days to Vine Kill</u>
Sandy	Sordan	20 inches	110

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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></u>	<u>lb K<sub>2</sub>O/ac</u>	<u>lb S/ac</u>	<u>lb Zn/ac</u>	<u>lb Mn/ac</u>
151	115	50	80	2	2

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**FIELD #4***Summary of Soil Type and Some Management Practices*

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<u>Soil Type</u>	<u>Previous Crop</u>	<u>Irrigation Water</u>	<u>Days to Vine Kill</u>
Sandy	Sordan	20 inches	127

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*Summary of Fertilizer Applied*

---

<u>lb N/ac</u>	<u>lb P<sub>2</sub>O<sub>5</sub></u>	<u>lb K<sub>2</sub>O/ac</u>	<u>lb S/ac</u>	<u>lb Zn/ac</u>	<u>lb Mn/ac</u>
30	55	50	20	2	2

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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>Irrigation Water</u>	<u>Days to Vine Kill</u>
Sandy Loam	Potatoes	21.6 inches	120

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*Summary of Total Nutrients Used*

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<u>lb N/ac</u>	<u>lb P<sub>2</sub>O<sub>5</sub></u>	<u>lb K<sub>2</sub>O/ac</u>	<u>lb S/ac</u>	<u>lb Zn/ac</u>	<u>lb Mn/ac</u>
160	49	143	17	1	0.72

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**FIELD #6**

*Summary of Soil Type and Some Management Practices*

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<u>Soil Type</u>	<u>Previous Crop</u>	<u>Irrigation Water</u>	<u>Days to Vine Kill</u>
Sandy Loam	Barley	20.5 inches	130

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*Summary of Total Nutrients Used*

---

<u>lb N/ac</u>	<u>lb P<sub>2</sub>O<sub>5</sub></u>	<u>lb K<sub>2</sub>O/ac</u>	<u>lb S/ac</u>	<u>lb Zn/ac</u>	<u>lb Mn/ac</u>
155	47	158	17	1	0.72

---

Table 1. Yield and tuber size distribution of Russet Norkotah (sel. 8) grown under different management practices, 2011.

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4 – 16oz	4 – 10oz	10 – 16oz	> 10oz	6 – 16oz	> 16oz
1	698	28	670(96) <sup>1</sup>	584(84)	612	381	231	289	526	58
2	507	49	458(90)	384(76)	341	200	141	258	267	117
3	649	34	615(95)	520(80)	523	289	234	326	428	92
4	446	83	363(81)	286(64)	317	215	102	148	240	46
5	215	65	150(70)	117(54)	135	98	37	52	102	15
6	557	43	514(92)	464(83)	397	216	181	298	347	117
Mean	512	50	462(90)	393(77)	388	233	154	229	318	74

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

Table 2. Tuber quality of Russet Norkotah (sel. 8) grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup>		Specific Gravity
				Defects	Defects			Defects	Defects	
1	0	0	0	0	8.7	0	0	8.7	0	1.078
2	1.8	3.6	0	5.4	0	0	0	0	0	1.072
3	0.5	0	0	0.5	0	0	0	0	0	1.080
4	0	0	2.1	2.1	0	0	0	0	0	1.070
5	0	18.6	0	18.6	0	0	0	0	0	1.076
6	7.2	1.6	0	8.8	0	0	0	0	0	1.077
Mean	1.6	3.9	0.4	5.9	1.5	0	0	1.5	0	1.076

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

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

Table 3. Yield and tuber size distribution of Russet Norkotah (sel. 8) grown under different management practices, (two year average).

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	644	40	604(94) <sup>1</sup>	508(79)	544	332	212	272	448	60
2	488	66	422(87)	346(71)	321	184	137	238	245	101
3	593	90	503(85)	400(68)	457	274	183	229	354	46
4	512	95	417(82)	325(64)	360	263	97	154	268	57
5	331	51	280(85)	223(67)	234	185	49	95	177	46
6	578	39	539(93)	495(86)	394	222	172	317	350	145
Mean	524	64	461(88)	383(73)	385	243	142	218	307	76

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

Table 4. Tuber quality of Russet Norkotah (sel. 8) grown under different management practices, (two year average).

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Defects				
1	0	0	0	0	4.3	0	0	4.3	1.080
2	0.9	4.8	0	5.7	0	0	0	0	1.078
3	0.3	0	0.6	0.9	0	0	0	0	1.084
4	0	0	2.6	2.6	0	0	0	0	1.075
5	1.2	10.0	1.7	12.9	0	0	0	0	1.086
6	3.6	1.6	0	5.2	4.8	0	0	4.8	1.085
Mean	1.0	2.7	0.8	4.6	1.5	0	0	1.5	1.081

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

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



Table 5. Yield and tuber size distribution of CO99053-4RU grown under different management practices, 2011.

Field Number	Total	Yield (cwt/ac)								
		< 4oz	> 4oz	> 6oz	4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	474	117	357(75) <sup>1</sup>	200(42)	357	338	19	19	200	0
2	314	86	228(73)	114(36)	228	216	12	12	114	0
3	409	132	277(68)	181(44)	277	277	0	0	181	0
4	264	123	141(53)	49(19)	141	141	0	0	49	0
5	292	89	203(70)	132(45)	203	154	49	49	132	0
6	483	62	421(87)	335(69)	406	289	117	132	320	15
Mean	373	102	271(73)	169(45)	269	236	33	35	166	2.5

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

Table 6. Tuber quality of CO99053-4RU grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Heart				
1	0	0	0	0	0	0	0	0	1.086
2	0	0	0	0	0	0	0	0	1.076
3	3	0.8	0	3.8	0	0	0	0	1.085
4	0	0	0	0	0	0	0	0	1.074
5	0	0	0	0	0	0	0	0	1.084
6	0.6	0	0	0.6	0	0	0	0	1.089
Mean	0.6	0.13	0	0.73	0	0	0	0	1.082

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

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

Table 7. Yield and tuber size distribution of CO99053-4RU grown under different management practices, (two year average).

Field Number	Total	Yield (cwt/ac)								
		< 4oz	> 4oz	> 6oz	4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	460	89	371(81) <sup>1</sup>	269(59)	371	324	47	47	269	0
2	372	79	293(79)	160(43)	293	273	20	20	160	0
3	417	106	311(75)	220(53)	303	245	58	66	212	8
4	384	92	292(76)	231(60)	275	224	51	68	214	17
5	308	97	211(69)	132(43)	211	172	39	39	132	0
6	466	63	403(87)	317(68)	395	297	98	106	309	8
Mean	401	88	314(78)	222(55)	308	256	52	58	216	6

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

Table 8. Tuber quality of CO99053-4RU grown under different management practices, (two year average).

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup> Defects	% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
2	0	0	0	0	0	0	0	1.080
3	1.5	0.4	0	1.9	0	0	0	1.078
4	0	0	0	0	0	0	0	1.077
5	1.9	0	0	1.9	0	0	0	1.083
6	0.3	0	0	0.3	0	0	0	1.093
Mean	0.7	0.07	0	0.8	0	0	0	1.081

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

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

Table 9. Yield and tuber size distribution of CO03276-4RU grown under different management practices, 2011.

Field Number	Total	Yield (cwt/ac)								
		< 4oz	> 4oz	> 6oz	4 – 16oz	4 – 10oz	10 – 16oz	> 10oz	6 – 16oz	> 16oz
1	670	80	590(88) <sup>1</sup>	406(61)	590	489	101	101	406	0
2	295	117	178(60)	71(24)	178	157	21	21	71	0
3	400	255	145(36)	40(10)	145	145	0	0	40	0
4	166	129	37(22)	3(2)	37	37	0	0	3	0
5	197	120	77(39)	31(16)	77	77	0	0	31	0
6	255	92	163(64)	74(29)	163	151	12	12	74	0
Mean	331	132	198(60)	104(31)	198	176	22	22	104	0

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

Table 10. Tuber quality of CO03276-4RU grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Defects				
1	0	0	0	0	0	0	0	0	1.082
2	0	0	0	0	0	0	0	0	1.062
3	0	0	0	0	0	0	0	0	1.083
4	0	0	0	0	0	0	0	0	1.079
5	0	0	0	0	0	0	0	0	1.091
6	0	0	0	0	0	0	0	0	1.080
Mean	0	0	0	0	0	0	0	0	1.080

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

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

Table 11. Yield and tuber size distribution of C003276-5RU grown under different management practices, 2011.

Field Number	Total	Yield (cwt/ac)								
		< 4oz	> 4oz	> 6oz	4 – 16oz	4 – 10oz	10 – 16oz	> 10oz	6 – 16oz	> 16oz
1	538	181	357(66) <sup>1</sup>	154(29)	357	305	52	52	154	0
2	338	166	172(51)	65(19)	172	160	12	12	65	0
3	363	191	172(47)	43(12)	172	172	0	0	43	0
4	292	203	89(31)	15(5)	89	89	0	0	15	0
5	353	98	255(72)	141(40)	255	234	21	21	141	0
6	363	191	172(47)	68(19)	172	172	0	0	68	0
Mean	375	172	203(54)	81(22)	203	189	14	14	81	0

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

Table 12. Tuber quality of C003276-5RU grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Defects				
1	0	0	0	0	0	0	0	0	1.080
2	0	0	0	0	0	0	0	0	1.075
3	0	0	0	0	0	0	0	0	1.087
4	0	0	0	0	0	0	0	0	1.071
5	0	0	0	0	0	0	0	0	1.081
6	0	0	0	0	0	0	0	0	1.084
Mean	0	0	0	0	0	0	0	0	1.080

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

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

Table 13. Yield and tuber size distribution of CO03187- 1RU grown under different management practices, 2011.

Field Number	Total	Yield (cwt/ac)								
		< 4oz	> 4oz	> 6oz	4 – 16oz	4 – 10oz	10 – 16oz	> 10oz	6 – 16oz	> 16oz
1	502	114	388(77) <sup>1</sup>	218(43)	388	320	68	68	218	0
2	452	98	354(78)	240(53)	335	252	83	102	221	19
3	403	160	243(60)	92(23)	243	233	10	10	92	0
4	255	178	77(30)	12(22)	77	77	0	0	12	0
5	215	86	129(60)	71(33)	129	129	0	0	71	0
6	320	86	234(73)	141(44)	234	234	0	0	141	0
Mean	358	120	238(66)	129(36)	234	208	27	30	126	3

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

Table 14. Tuber quality of CO03187- 1RU grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Defects				
1	0	0	0	0	0	0	0	0	1.080
2	0	0	0	0	0	0	0	0	1.072
3	0	0	0	0	0	0	0	0	1.080
4	0	0	0	0	0	0	0	0	1.072
5	0	0	0	0	0	0	0	0	1.082
6	0	0	0	0	0	0	0	0	1.077
Mean	0	0	0	0	0	0	0	0	1.077

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

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

Table 15. Yield and tuber size distribution of CO03202- 1RU grown under different management practices, 2011.

Field Number	Total	Yield (cwt/ac)								
		< 4oz	> 4oz	> 6oz	4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	541	55	486(90) <sup>1</sup>	351(65)	455	360	95	126	320	31
2	412	98	314(76)	209(51)	314	237	77	77	209	0
3	471	105	366(78)	231(49)	366	317	49	49	231	0
4	437	71	366(84)	255(58)	366	268	98	98	255	0
5	443	77	366(83)	255(58)	351	283	68	83	240	15
6	449	65	384(86)	277(62)	384	301	83	83	277	0
Mean	459	79	380(83)	263(57)	373	294	78	86	255	8

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

Table 16. Tuber quality of CO03202- 1RU grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Heart				
1	0	0	0	0	0	0	0	0	1.086
2	0	0	0	0	0	0	0	0	1.071
3	0	0	0	0	0	0	0	0	1.093
4	0	0	0	0	0	0	0	0	1.079
5	0	0	0	0	0	0	0	0	1.085
6	0	0	2.1	2.1	0	0	0	0	1.095
Mean	0	0	0.4	0.4	0	0	0	0	1.085

<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 AC00395-2RU grown under different management practices, 2011.

Field Number	Total	Yield (cwt/ac)								
		< 4oz	> 4oz	> 6oz	4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	621	129	492(79) <sup>1</sup>	246(40)	492	455	37	37	246	0
2	600	46	554(92)	452(75)	517	351	166	203	415	37
3	535	120	415(78)	221(41)	415	397	18	18	221	0
4	424	92	332(78)	227(54)	317	252	65	80	212	15
5	492	92	400(81)	253(51)	381	323	58	77	234	19
6	538	105	433(81)	258(48)	433	381	52	52	258	0
Mean	535	97	438(82)	276(52)	426	360	66	78	264	12

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

Table 18. Tuber quality of AC00395-2RU grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Defects				
1	0	0	0	0	0	0	0	0	1.095
2	0	0	0	0	0	0	0	0	1.085
3	0	0	0	0	0	0	0	0	1.101
4	0	0	0	0	0	0	0	0	1.085
5	0	0	0	0	0	0	0	0	1.107
6	0	0	0	0	0	0	0	0	1.109
Mean	0	0	0	0	0	0	0	0	1.097

<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 AC00395-2RU grown under different management practices, (two year average).

Field Number	Total	< 4oz	> 4oz	> 6oz	4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz	Yield (cwt/ac)						
											1	2	3	4	5	6	Mean
1	606	103	503(83) <sup>1</sup>	315(52)	495	412	83	91	307	8							
2	636	123	513(81)	299(47)	494	400	94	113	280	19							
3	512	115	397(78)	214(42)	389	360	29	37	206	8							
4	472	65	407(86)	289(61)	392	304	88	103	274	15							
5	448	80	368(82)	265(59)	323	226	97	142	220	45							
6	480	91	389(81)	234(49)	369	332	37	57	214	20							
Mean	526	96	430(82)	270(51)	410	339	71	91	250	19							

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

Table 20. Tuber quality of AC00395-2RU grown under different management practices, (two year average).

Field Number	% Growth	Cracks	% Knobs	% Misshapes	% External <sup>1</sup> Defects	% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity	
										1
2	0	0	0	0	0	0	0	0	0	1.095
3	0	0	0	0	0	0	0	0	0	1.097
4	0	0	0	0	0	0	0	0	0	1.087
5	0	0	0	0	0	0	0	0	0	1.102
6	0	0	4.7	0	4.7	4.7	0	4.7	0	1.109
Mean	0	0	0.8	0	0.8	0.8	0	0.8	0	1.097

<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 Yukon Gold grown under different management practices, 2011.

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	529	83	446(84) <sup>1</sup>	317(60)	446	360	86	86	317	0
2	369	89	280(76)	178(48)	280	237	43	43	178	0
3	381	98	283(74)	175(46)	283	277	6	6	175	0
4	329	28	301(92)	225(68)	301	212	89	89	225	0
5	234	71	163(70)	120(51)	129	80	49	83	86	34
6	390	43	347(89)	267(69)	332	221	111	126	252	15
Mean	372	69	303(82)	214(58)	295	231	64	72	206	8

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

Table 22. Tuber quality of Yukon Gold grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Defects				
1	0	0	0	0	0	0	0	0	1.085
2	0	0	0	0	0	0	0	0	1.073
3	0	0	0	0	0	0	0	0	1.088
4	0	0	0	0	0	0	0	0	1.079
5	0	0	0	0	0	0	0	0	1.091
6	0	2.6	0	2.6	0	0	0	0	1.081
Mean	0	0.4	0	0.4	0	0	0	0	1.083

<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 CO04013-1W/Y grown under different management practices, 2011.

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	538	357	181(34) <sup>1</sup>	19(4)	181	181	0	0	19	0
2	498	323	175(35)	28(6)	175	175	0	0	28	0
3	430	415	15(4)	0(0)	15	15	0	0	0	0
4	323	298	25(8)	0(0)	25	25	0	0	0	0
5	289	231	58(20)	6(2)	58	58	0	0	6	0
6	139	117	22(16)	6(4)	22	22	0	0	6	0
Mean	370	290	79(21)	10(3)	79	79	0	0	10	0

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

Table 24. Tuber quality of CO04013-1W/Y grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Defects				
1	0	0	0	0	0	0	0	0	1.099
2	0	0	0	0	0	0	0	0	1.089
3	0	0	0	0	0	0	0	0	1.104
4	0	0	0	0	0	0	0	0	1.092
5	0	0	0	0	0	0	0	0	1.108
6	0	0	0	0	0	0	0	0	1.110
Mean	0	0	0	0	0	0	0	0	1.100

<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 CO040117-5PW/Y grown under different management practices, 2011.

Field Number	Total	< 4oz	> 4oz	> 6oz	4 – 16oz	4 – 10oz	10 – 16oz	> 10oz	6 – 16oz	> 16oz	Yield (cwt/ac)	
1	387	218	169(44) <sup>1</sup>	43(11)	169	169	0	0	43	0		
2	255	181	74(29)	15(6)	74	65	9	9	15	0		
3	271	249	22(8)	9(3)	22	22	0	0	9	0		
4	58	58	0(0)	0(0)	0	0	0	0	0	0		
5	31	22	9(29)	0(0)	9	9	0	0	0	0		
6	151	105	46(31)	12(8)	46	46	0	0	12	0		
Mean	192	139	53(28)	13(7)	53	52	1.5	1.5	13	0		

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

Table 26. Tuber quality of CO040117-5PW/Y grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup> Defects	% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
2	0	0	0	0	0	0	0	1.062
3	0	0	0	0	0	0	0	1.070
4	0	0	0	0	0	0	0	1.059
5	0	0	0	0	0	0	0	1.063
6	0	0	0	0	0	0	0	1.067
Mean	0	0	0	0	0	0	0	1.065

<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 CO01399-10P/Y grown under different management practices, 2011.

Field Number	Total	Yield (cwt/ac)								
		< 4oz	> 4oz	> 6oz	4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	551	157	394(72) <sup>1</sup>	228(41)	394	308	86	86	228	0
2	372	108	264(71)	166(45)	264	178	86	86	166	0
3	569	301	268(47)	71(13)	268	259	9	9	71	0
4	178	129	49(28)	19(11)	49	49	0	0	19	0
5	514	138	376(73)	228(44)	376	314	62	62	228	0
6	267	132	135(51)	86(32)	135	135	0	0	86	0
Mean	409	161	248(61)	133(33)	248	207	41	41	133	0

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

Table 28. Tuber quality of CO01399-10P/Y grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Heart				
1	0	0	0	0	0	0	0	0	1.072
2	1.6	0	0	1.6	0	0	0	0	1.062
3	0	0	0	0	0	0	0	0	1.080
4	0	0	0	0	0	0	0	0	1.067
5	0	0	0	0	0	0	0	0	1.086
6	3.4	0	0	3.4	0	0	0	0	1.081
Mean	0.8	0	0	0.8	0	0	0	0	1.075

<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 CO01399-10P/Y grown under different management practices, (two year average).

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	516	167	349(68) <sup>1</sup>	207(40)	349	296	53	53	207	0
2	441	149	292(66)	149(34)	292	244	48	48	149	0
3	472	231	241(51)	105(22)	241	221	20	20	105	0
4	329	132	197(60)	140(43)	197	166	31	31	140	0
5	456	104	352(77)	250(55)	342	224	118	128	240	10
6	367	145	222(61)	114(31)	222	222	0	0	114	0
Mean	430	155	276(64)	161(37)	274	229	45	47	159	2

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

Table 30. Tuber quality of CO01399-10P/Y grown under different management practices, (two year average).

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Defects				
1	2.4	0	0	2.4	0	0	0	0	1.070
2	0.8	0	0	0.8	0	0	0	0	1.066
3	0.8	0	0	0.8	0	0	0	0	1.074
4	0	0	0	0	0	0	0	0	1.069
5	14	0	0	14	5.0	0	0	5.0	1.079
6	3.0	0	0	3.0	0	0	0	0	1.077
Mean	3.5	0	0	3.5	0.8	0	0	0.8	1.072

<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 Purple Majesty grown under different management practices, 2011.

Field Number	Total	< 4oz	> 4oz	> 6oz	4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz	Yield (cwt/ac)	
											4 - 16oz	4 - 10oz
1	652	415	237(36) <sup>1</sup>	43(7)	237	237	0	0	43	0		
2	431	191	240(56)	92(21)	240	231	9	9	92	0		
3	510	418	92(18)	19(4)	92	92	0	0	19	0		
4	145	102	43(30)	3(2)	43	43	0	0	3	0		
6	424	233	191(45)	83(20)	191	182	9	9	83	0		
Mean	432	272	161(37)	48(11)	161	157	4	4	48	0		

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

Table 32. Tuber quality of Purple Majesty grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Defects				
1	0	0	0	0	0	0	0	0	1.074
2	0	0	0	0	0	0	0	0	1.067
3	0	0	0	0	0	0	0	0	1.089
4	0	0	0	0	0	0	0	0	1.074
6	0	0	0	0	0	0	0	0	1.082
Mean	0	0	0	0	0	0	0	0	1.077

<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 Purple Majesty grown under different management practices, (two year average).

Field Number	Total	Yield (cwt/ac)							
		< 4oz	> 4oz	> 6oz	4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz
1	663	352	311(47) <sup>1</sup>	112(17)	311	293	18	112	0
2	510	239	271(53)	99(19)	271	266	5	99	0
3	504	392	112(22)	44(9)	112	103	9	44	0
4	318	199	119(37)	36(11)	119	111	8	36	0
6	460	229	231(50)	119(26)	231	205	26	119	0
Mean	491	282	209(43)	82(17)	209	196	13	82	0

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

Table 34. Tuber quality of Purple Majesty grown under different management practices, (two year average).

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup> Defects	% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
2	0	0	0	0	0	0	0	1.075
3	0	0	0	0	0	0	0	1.082
4	0	0	0	0	0	0	0	1.077
6	0	0	0	0	0	0	0	1.082
Mean	0	0	0	0	0	0	0	1.077

<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 CO04045-4P/P grown under different management practices, 2011.

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	427	221	206(48) <sup>1</sup>	74(17)	206	200	6	6	74	0
2	510	212	298(58)	123(24)	298	264	34	34	123	0
3	523	320	203(39)	43(8)	203	203	0	0	43	0
4	209	175	34(16)	6(3)	34	34	0	0	6	0
5	292	169	123(42)	37(13)	123	123	0	0	37	0
6	212	126	86(41)	15(7)	86	86	0	0	15	0
Mean	362	204	158(44)	50(14)	158	152	7	7	50	0

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

Table 36. Tuber quality of CO04045-4P/P grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup> Defects	% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
2	0	0	0	0	0	0	0	1.070
3	0	0	0	0	0	0	0	1.078
4	0	0	0	0	0	0	0	1.068
5	0	0	0	0	0	0	0	1.073
6	0	0	0	0	0	0	0	1.074
Mean	0	0	0	0	0	0	0	1.073

<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 TC02072-3P/P grown under different management practices, 2011.

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	388	323	65(17) <sup>1</sup>	40(10)	65	0	0	0	40	0
2	470	329	141(30)	49(10)	141	0	0	0	49	0
3	566	557	9(2)	3(1)	9	0	0	0	3	0
4	369	369	0(0)	0(0)	0	0	0	0	0	0
5	369	304	65(18)	22(6)	65	0	0	0	22	0
6	341	283	58(17)	12(4)	58	0	0	0	12	0
Mean	417	361	56(13)	21(5)	56	0	0	0	21	0

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

Table 38. Tuber quality of TC02072-3P/P grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Defects				
1	0	0	0	0	0	0	0	0	1.090
2	0	0	0	0	0	0	0	0	1.081
3	0	0	0	0	0	0	0	0	1.093
4	0	0	0	0	0	0	0	0	1.077
5	0	0	0	0	0	0	0	0	1.087
6	0	0	0	0	0	0	0	0	1.084
Mean	0	0	0	0	0	0	0	0	1.085

<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 TC02072-3P/P grown under different management practices, (two year average).

Field Number	Total	Yield (cwt/ac)								
		< 4oz	> 4oz	> 6oz	4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	424	372	52(12) <sup>1</sup>	20(5)	52	52	0	0	20	0
2	438	366	72(16)	25(6)	72	72	0	0	25	0
3	440	428	12(3)	2(1)	12	12	0	0	2	0
4	406	384	22(5)	3(1)	22	22	0	0	3	0
5	328	288	40(12)	11(3)	40	40	0	0	11	0
6	371	326	45(12)	6(2)	45	45	0	0	6	0
Mean	401	361	41(10)	11(3)	41	41	0	0	11	0

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

Table 40. Tuber quality of TC02072-3P/P grown under different management practices, (two year average).

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup> Defects	% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
2	0	0	0	0	0	0	0	1.083
3	0	0	0	0	0	0	0	1.088
4	0	0	0	0	0	0	0	1.084
5	0	0	0	0	0	0	0	1.087
6	0	0	0	0	0	0	0	1.091
Mean	0	0	0	0	0	0	0	1.086

<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 CO04021-2R/Y grown under different management practices, 2011.

Field Number	Total	Yield (cwt/ac)								
		< 4oz	> 4oz	> 6oz	4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	640	62	578(90) <sup>1</sup>	473(74)	514	397	117	181	409	64
2	347	37	310(89)	273(79)	295	123	172	188	258	15
3	677	105	572(85)	403(60)	572	486	86	86	403	0
4	510	125	385(76)	225(44)	385	354	31	31	225	0
5	716	80	636(89)	532(74)	621	326	295	310	517	15
6	188	37	151(80)	141(75)	151	99	52	52	141	0
Mean	513	74	439(86)	341(67)	423	298	126	141	326	16

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

Table 42. Tuber quality of CO04021-2R/Y grown under different management practices, 2011.

Field Number	% Growth		% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
	Cracks				Defects					
1	2.9	0	0	0	2.9	0	0	0	0	1.132
2	0	0	0	0	0	0	0	0	0	1.083
3	0	0	0	0	0	0	0	0	0	1.088
4	0	0	0	0	0	0	0	0	0	1.075
5	0	0	0	0	0	0	0	0	0	1.089
6	3.3	0	0	0	3.3	0	0	0	0	1.097
Mean	1.0	0	0	0	1.0	0	0	0	0	1.094

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

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

Table 43 Yield and tuber size distribution of Chepita grown under different management practices, 2011.

Field Number	Total	< 4oz	> 4oz	> 6oz	Yield (cwt/ac)					
					4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	579	102	477(82) <sup>1</sup>	320(55)	458	363	95	114	301	19
2	453	105	348(77)	197(44)	348	283	65	65	197	0
3	495	46	449(91)	338(68)	434	280	154	169	323	15
4	424	107	317(75)	126(30)	317	308	9	9	126	0
5	474	31	443(94)	390(82)	354	194	160	249	301	89
6	427	49	378(89)	304(71)	341	237	104	141	267	37
Mean	475	73	402(85)	279(59)	375	278	98	125	253	27

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

Table 44. Tuber quality of Chepita grown under different management practices, 2011.

Field Number	% Growth	Cracks	% Knobs	% Misshapes	% External <sup>1</sup> Defects	% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
2	0	0	0	0	0	0	0	0	1.080
3	0	0	0	0	0	0	0	0	1.071
4	0	0	0	0	0	0	0	0	1.084
5	4.5	0	0	0	4.5	0	0	0	1.098
6	3.6	0	0	0	3.6	0	0	0	1.100
Mean	3.1	0	0	0	3.1	0	0	0	1.087

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

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

Table 45 Yield and tuber size distribution of CO00197-3W grown under different management practices, 2011.

Field Number	Total	Yield (cwt/ac)								
		< 4oz	> 4oz	> 6oz	4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	415	175	240(58) <sup>1</sup>	145(35)	240	218	22	22	145	0
2	416	145	271(65)	117(28)	271	271	0	0	117	0
3	483	163	320(66)	181(38)	320	311	9	9	181	0
4	264	126	138(52)	74(28)	138	138	0	0	74	0
6	397	231	166(42)	77(19)	166	154	12	12	77	0
Mean	395	168	227(58)	119(30)	227	218	9	9	119	0

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

Table 46. Tuber quality of CO00197-3W grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Defects				
1	1.5	0	2.2	3.7	0	0	0	0	1.087
2	0	0	0	0	0	0	0	0	1.076
3	0	0	0	0	0	0	0	0	1.099
4	0	0	0	0	0	0	0	0	1.074
6	0	0	0	0	0	0	0	0	1.099
Mean	0.3	0	0.4	0.7	0	0	0	0	1.087

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

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

Table 47 Yield and tuber size distribution of CO00188-4W grown under different management practices, 2011.

Field Number	Total	Yield (cwt/ac)								
		< 4oz	> 4oz	> 6oz	4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	508	126	382(75) <sup>1</sup>	234(46)	382	363	19	19	234	0
2	465	108	357(77)	221(48)	357	314	43	43	221	0
3	424	120	304(72)	157(37)	304	304	0	0	157	0
4	292	145	147(50)	71(24)	147	141	6	6	71	0
5	240	37	203(85)	138(58)	188	135	53	68	123	15
6	363	111	252(69)	141(39)	252	234	18	18	141	0
Mean	382	108	274(72)	160(42)	272	249	23	26	158	3

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

Table 48. Tuber quality of CO00188-4W grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup>		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				Defects	Defects				
1	1.2	0	0	1.2	0	0	0	0	1.095
2	0	0	0	0	0	0	0	0	1.079
3	0	0	0	0	0	0	0	0	1.089
4	1.1	0	0	1.1	0	0	0	0	1.075
5	9	0	0	9	0	0	0	0	1.090
6	2.5	0	0	2.5	0	0	0	0	1.094
Mean	2.3	0	0	2.3	0	0	0	0	1.087

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

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

Table 49. Yield and tuber size distribution of CO00270-7W grown under different management practices, 2011.

Field Number	Total	Yield (cwt/ac)							
		< 4oz	> 4oz	4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	551	77	474(86) <sup>1</sup>	440	323	117	151	341	34
2	467	80	387(83)	372	249	123	138	271	15
3	486	40	446(92)	446	378	68	68	317	0
4	293	74	219(75)	219	197	22	22	154	0
5	101	52	49(49)	49	49	0	0	37	0
6	444	145	299(67)	299	280	19	19	191	0
Mean	390	78	312(80)	304	246	58	66	219	8

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

Table 50. Tuber quality of CO00270-7W grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup> Defects	% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
2	0	0	0	0	0	0	0	1.073
3	0	0	0	0	0	0	0	1.103
4	0	0	0	0	0	0	0	1.081
5	6.1	0	0	6.1	0	0	0	1.064
6	0	0	0	0	0	0	0	1.084
Mean	1.0	0	0	1.0	0	0	0	1.082

<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 CO03027-2R/R grown under different management practices, 2011.

Field Number	Total	Yield (cwt/ac)								
		< 4oz	> 4oz	> 6oz	4 - 16oz	4 - 10oz	10 - 16oz	> 10oz	6 - 16oz	> 16oz
1	473	258	215(46) <sup>1</sup>	65(14)	215	215	0	0	65	0
2	492	120	372(76)	274(56)	372	255	117	117	274	0
3	326	228	98(30)	19(6)	98	98	0	0	19	0
4	323	209	114(35)	31(10)	114	114	0	0	31	0
5	49	40	9(18)	0(0)	9	9	0	0	0	0
6	314	145	169(54)	55(18)	169	169	0	0	55	0
Mean	330	167	163(49)	74(22)	163	143	20	20	71	0

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

Table 52. Tuber quality of CO03027-2R/R grown under different management practices, 2011.

Field Number	% Growth Cracks	% Knobs	% Misshapes	% External <sup>1</sup> Defects		% Hollow Heart	% Brown Center	% Internal <sup>2</sup> Defects	Specific Gravity
				% External <sup>1</sup> Defects	% Hollow Heart				
1	16.9	0	0	16.9	0	0	0	0	1.076
2	15.6	0	0	15.6	1.2	1.2	0	1.2	1.070
3	0	0	0	0	0	0	0	0	1.083
4	0	0	0	0	0	0	0	0	1.075
5	12.5	0	0	12.5	0	0	0	0	-
6	0	0	0	0	0	0	0	0	1.087
Mean	7.5	0	0	7.5	0.2	0.2	0	0.2	1.078

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

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



Table 53. Tuber diameter of CO03027-2R/R grown under different management practices, 2011.

Field Number	< 2 in. dia <sup>1</sup>	2 - 4 in. dia	> 4 in. dia	Yield (cwt/ac)		
				> 2 in. dia < 10oz	> 2 in. dia > 10oz	> 2 in. dia
1	135	338	0	338	0	338
2	52	440	0	323	117	440
3	120	206	0	206	0	206
4	111	212	0	212	0	212
6	74	240	0	240	0	240
Mean	98	287	0	264	23	287

<sup>1</sup>dia. = Diameter

Table 54. Tuber diameter of CO03094-5RF/RW (fingerlings) grown under different management practices, 2011.

Field Number	Yield (cwt/ac)			Total
	< 1 in. dia. <sup>1</sup>	1 – 1.5 in. dia.	> 1.5 – 2 in. dia.	
1	19	225	283	542
2	9	83	329	566
3	25	326	37	390
4	22	212	120	357
6	19	141	138	304
Mean	19	197	181	432

<sup>1</sup> dia. = Diameter

Table 55. Tuber length of CO03094-5RF/RW (fingerlings) grown under different management practices, 2011.

Field Number	Yield (cwt/ac)			Total
	< 2 in.	2 – 4 in.	> 4 in.	
1	25	246	271	542
2	3	157	406	566
3	15	295	80	390
4	15	277	65	357
6	12	157	135	304
Mean	14	226	191	432