

2009 Western Regional Red/Specialty Trial

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Table 1. Western Regional Red/Specialty Potato Variety Trial - Locations, Cooperators, and Cultural Information

Locations	Cooperators	Trial	Irrigation	Fertilizer	Planting	Vine Kill	Vine Kill	Harvest	Pesticides Applied		
				N-P-K-S (lb/A)	Date	Date	Method	Date	Herbicides	Insecticides	Fungicides
Tulelake California (TUL)	R. Wilson D. Kirby	Late	Sprinkler	128-211-28-88	5/13/2009	9/14/2009	Reglone	10/7/2009	Matrix	Movento, Avaunt	Maxim, Quadris, Echo 720, Manzate
San Luis Valley Colorado (SLV)	D. Holm, F. Goktepe	Late	Pivot	120-60-40-25 2.5 Zn	5/19/2009	9/9/2009	Sulfuric acid	9/30/2009	Dual Magnum	Endigo ZC, Fulfill	Bravo WS, Quadris
Aberdeen Idaho (AB)	J. Stark, R. Novy, J. Whitworth, P. Bain M. Chappell	Late	Sprinkler	250-115-0	5/7/2009	8/14/2009	Mechanical	9/1/2009	Metri DF, Matrix, Eptam	Admire Pro	Dithane, Equus
Corvallis Oregon (COR)	I. Vales, S. Yilma	Late	Sprinkler	160-160-160	5/21/2009	9/10/2009	Rely	9/22/2009	Matrix, Prowl	Plantnum, Provado	Bravo, Diathane, Quadris, Curzate
Klamath Falls Oregon (KLM)	B. Charlton, D. Culp	Late	Sprinkler	170-75-100-205	5/19/2009	9/11/2009	Reglone	10/5/2009	Matrix	Admire Pro, Leverage	Topps MZ, Quadris, Ridomil Gold Bravo
Springlake Texas (SPL)	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	white yellow skin 117-33-33-24 colored skin 201-33-33-24	4/8/2009	8/11/2009	Mechanical	8/3/2009	Matrix, Sencor Roundup	Movento, Rimon	Bravo, Dithane, Quadris, Nu Cop
Othello Washington (OTH)	M. Pavek, R. Knowles, Z. Holden	Early	Linear	180-225-100	4/1/2009	7/22/2009	Mechanical	8/11/2009	Sencor, Matrix Chateau, Prowl	Platnum, Acramite	Pencozeb, Omega, Oberon 4SC, Quadris

Table 2. Description of Clones - 2009 Western Regional Red/Specialty Trial

Clone/Variety	Parents		Flower Color	Vine Size	Maturity	Tuber Shape	Skin Type	Flesh Color	Entered			DISPO
	Female	Male							By	Seed	Year	
Red/White Flesh												
1	Dk Red Norland	RedKote	ND626	Red-purple	Small	Early	Oval	Dark Red	White	Check	OR	***
2	Red LaSoda	Triumph	Katahdin	Red-purple	Med	Med	Oval	Lt. Red	White	Check	OR	***
3	ATTX98453-6R	A93490-1R	A91846-5R	Lavender	Small-Med	Early-Med	Oblong	Red	White	TX	CO	1
4	BTX2332-1R	B1523-4	Super Red Norland	Lavender	Large	Medium	Round	Red	White	TX	CO	1
5	COTX94216-1R	Purple Peruvian	Chipeta	Purple	Medium	Medium	Round	Red	White	TX	CO	1
6	COTX94218-1R	Red Ruby	Red Gold	Lavender	Large	Medium	Round	Red	White	TX	CO	1
7	NDTX4784-7R	ND3574-5R	ND2050-1R	Lavender	Medium	Med-Late	Round	Red	White	TX	CO	1
Red-Purple/Yellow Flesh												
8	A99326-1PY	Agria	COA94019-5R	Med Purple	Med-small	Med-early	Round	Purple	Yellow	ID	ID	1
9	AC99329-7PW/Y	Inca Gold	A91846-5R	Dk Purple	Large	Medium	Round	Purple/White	Yellow	CO	CO	2
10	AC99330-1P/Y	Inca Gold	A89655-5DY	Blue	Large	Medium	Round	Purple	Yellow	CO	CO	2
11	POR01PG45-5	Serrana	Red flesh bulk pollen	Blue	Med-large	Med-late	Oblong	Pale purple	Yellow	WA/OR	OR	2
12	POR03PG80-2	Satina	PA99P35-1	Red-purple	Medium	Med-early	Oblong	Medium purple	Yellow	OR	OR	1
Red/Red Flesh												
13	PA96RR1-193	Fontenot	3261-5R	Red-purple	Medium	Med-early	Oval	Red	Red	WA/OR	OR	2
14	POR03PG23-1	PA97B35-1	PA99P11-2	Red-purple	Medium	Medium	Oval	Red with white swirl	ith white pinwheel	WA/OR	OR	2
Purple/Purple Flesh												
15	Purple Majesty	All Blue	ND2008-2	Blue	Medium	Early	Oval	Purple	Purple	Check	CO	***
16	OR00068-11	All Blue	PA97B29-4	Red-purple	Med-large	Med-early	Oval	Purple	Purple	OR	OR	2
Yellow Flesh												
17	Yukon Gold	Norgleam	W5279-4	Pink	Med	Early	Oval	White	Yellow	Check	OR	***
18	A00286-3Y	Yukon Gem	A89655-5DY	Med red-purple	Med-large	Med-late	Oval	Yellow/pink eyes	Yellow	ID	OR	2
19	A00293-2Y	Agria	TXA1655-1DY	White	Medium	Med-early	Round	Yellow	Yellow	ID	ID	1
20	CO00412-5W/Y	German Butterball	TX1523-1RU/Y	Purple	Large	Medium	Oval	White	Yellow	CO	CO	1
21	CO99045-1W/Y	Rio Grande Russet	German Butterball	White	Large	Medium	Long	White	Yellow	CO	CO	2
22	POR02PG37-2	PA99P35-1	Rose Gold	Red-purple	Med-small	Med-early	Oval	Yellow with red eyes	Yellow	OR	OR	2

Table 3. Percent Stand and Stems/Hill

Entry	Clone/Variety	Percent Stand							Stems/hill					
		CA	CO	ID	OR		TX	WA	Mean	CO	ID	TX	WA	Mean
		TUL	SLV	AB	COR	KLM	SPL	OTH		SLV	AB	SPL	OTH	
Red/White Flesh														
1	Dk Red Norland	98	100	98	97	99	100	97	98	4.6	2.7	2.6	1.8	2.9
2	Red LaSoda	95	100	100	97	98	100	99	98	3.6	2.1	2.2	1.6	2.4
3	ATTX98453-6R	65	99	100	100	---	99	40	84	2.5	1.7	1.9	2.1	2.0
4	BTX2332-1R	76	98	98	100	---	100	81	92	4.4	3.2	2.9	2.7	3.3
5	COTX94216-1R	70	96	95	100	---	96	63	87	4.4	2.7	2.2	3.0	3.1
6	COTX94218-1R	84	97	100	100	---	97	75	92	5.8	2.8	2.8	3.0	3.6
7	NDTX4784-7R	60	97	100	100	---	88	74	87	3.2	2.1	2.2	1.9	2.4
Red-Purple/Yellow Flesh														
8	A99326-1PY	97	---	100	100	99	100	96	99	---	2.0	2.3	1.7	2.0
9	AC99329-7PW/Y	76	98	98	100	---	95	100	94	7.4	4.4	2.9	2.7	4.3
10	AC99330-1P/Y	85	98	100	100	---	100	96	96	6.7	4.6	4.0	3.2	4.6
11	POR01PG45-5	94	98	100	100	100	96	97	98	4.8	2.1	2.0	1.6	2.6
12	POR03PG80-2	90	---	100	100	100	99	86	96	---	1.3	2.1	1.3	1.5
Red/Red Flesh														
13	PA96RR1-193	94	98	100	100	100	100	100	99	5.3	3.1	3.5	2.2	3.5
14	POR03PG23-1	92	97	100	100	98	96	97	97	3.7	3.6	3.5	2.4	3.3
Purple/Purple Flesh														
15	Purple Majesty	97	96	100	100	100	100	99	99	3.8	3.7	3.5	2.2	3.3
16	OR00068-11	96	99	100	100	98	100	94	98	6.0	3.7	3.3	2.2	3.8
Yellow Flesh														
17	Yukon Gold	90	97	100	100	97	98	86	95	2.9	1.2	1.3	1.2	1.7
18	A00286-3Y	85	97	98	100	99	100	96	96	4.2	2.8	2.2	2.1	2.8
19	A00293-2Y	95	---	100	100	100	100	81	96	---	2.8	3.0	2.0	2.6
20	CO00412-5W/Y	86	98	100	100	---	97	89	95	4.7	3.6	2.7	2.8	3.5
21	CO99045-1W/Y	85	99	100	100	---	100	79	94	4.0	3.0	3.2	2.6	3.2
22	POR02PG37-2	91	99	100	100	100	99	99	98	7.6	4.8	4.2	2.4	4.7
Mean		86	98	99	100	99	98	87	95	4.7	2.9	2.8	2.2	3.1

Table 4. Vine Size and Vine Maturity

Entry Clone/Variety	Vine Size (1-5 large)						Vine Maturity (1-5 late)						
	CO	ID	OR		TX	Mean	CA	CO	ID	OR		TX	Mean
	SLV	AB	COR	KLM	SPL		TUL	SLV	AB	COR	KLM	SPL	
Red/White Flesh													
1 Dk Red Norland	2.5	1.5	3.0	3.8	3.8	2.9	1.3	1.5	1.5	2.5	3.5	2.7	2.2
2 Red LaSoda	3.3	1.5	3.5	2.9	3.7	3.0	2.5	3.0	1.5	3.0	3.3	2.7	2.7
3 ATTX98453-6R	2.3	1.0	3.3	---	3.1	2.4	3.3	2.0	1.5	3.2	---	3.1	2.6
4 BTX2332-1R	3.0	1.5	3.5	---	4.0	3.0	2.7	2.0	2.5	3.5	---	2.7	2.7
5 COTX94216-1R	4.0	2.5	4.5	---	3.8	3.7	3.8	2.8	2.5	3.2	---	3.7	3.2
6 COTX94218-1R	4.0	3.0	3.5	---	4.0	3.6	3.8	3.0	5.0	4.0	---	4.7	4.1
7 NDTX4784-7R	3.0	1.0	2.5	---	3.2	2.4	3.3	2.3	2.5	2.5	---	2.0	2.5
Red-Purple/Yellow Flesh													
8 A99326-1PY	---	3.0	4.5	3.6	4.4	3.9	3.3	---	3.0	4.0	3.4	3.7	3.5
9 AC99329-7PW/Y	4.0	2.0	4.5	---	4.2	3.7	4.5	3.0	4.0	3.5	---	4.1	3.8
10 AC99330-1P/Y	2.8	1.5	4.5	---	3.9	3.2	2.8	2.0	2.5	3.0	---	4.5	3.0
11 POR01PG45-5	3.8	2.5	4.0	3.6	4.0	3.6	3.5	3.0	4.0	4.0	4.0	4.5	3.8
12 POR03PG80-2	---	3.0	3.5	3.9	3.5	3.5	3.3	---	4.0	3.0	3.4	4.8	3.7
Red/Red Flesh													
13 PA96RR1-193	3.0	1.0	3.0	3.1	3.7	2.8	1.5	1.5	2.0	3.5	2.9	2.6	2.3
14 POR03PG23-1	2.5	1.0	3.0	3.3	3.1	2.6	1.3	2.5	1.0	3.2	3.6	2.5	2.4
Purple/Purple Flesh													
15 Purple Majesty	3.0	1.5	4.0	3.1	4.2	3.2	2.5	1.5	2.0	3.1	3.0	3.1	2.5
16 OR00068-11	4.0	2.0	4.0	4.4	4.1	3.7	1.8	2.3	2.5	3.0	3.4	3.9	2.8
Yellow Flesh													
17 Yukon Gold	3.0	2.0	3.0	3.5	3.4	3.0	2.5	1.8	2.0	2.5	3.0	1.3	2.2
18 A00286-3Y	4.5	2.5	4.0	4.5	4.1	3.9	4.3	3.0	4.0	3.5	4.5	5.0	4.1
19 A00293-2Y	---	3.5	3.5	3.8	4.2	3.7	4.5	---	4.0	3.0	3.5	4.9	4.0
20 CO00412-5W/Y	3.0	2.0	4.5	---	4.3	3.4	3.5	2.8	2.5	3.0	---	4.9	3.3
21 CO99045-1W/Y	3.5	2.0	4.5	---	4.3	3.6	3.5	3.0	3.5	3.0	---	4.9	3.6
22 POR02PG37-2	2.5	1.5	2.5	2.6	3.6	2.6	2.3	1.5	2.0	3.0	2.9	1.4	2.2
Mean	3.2	2.0	3.7	3.5	3.8	3.2	3.0	2.3	2.7	3.2	3.4	3.5	3.0

Table 5. Total Yield

Entry Clone/Variety	Total Yield (cwt/A)								Mean	Rank
	CA	CO	ID	OR		TX	WA			
	TUL	SLV	AB	COR	KLM	SPL	OTH			
Red/White Flesh										
1 Dk Red Norland	601	431	485	537	634	439	331	494	2	
2 Red LaSoda	552	561	452	459	621	440	421	501	1	
3 ATTX98453-6R	469	373	362	393	---	366	322	381	7	
4 BTX2332-1R	546	526	433	450	---	441	402	466	3	
5 COTX94216-1R	481	530	375	411	---	305	235	390	6	
6 COTX94218-1R	455	563	432	508	---	438	219	436	4	
7 NDTX4784-7R	490	462	382	407	---	362	372	413	5	
Red-Purple/Yellow Flesh										
8 A99326-1PY	580	---	455	494	622	453	353	493	1	
9 AC99329-7PW/Y	447	585	438	451	---	493	312	454	3	
10 AC99330-1P/Y	406	523	378	423	---	389	351	412	5	
11 POR01PG45-5	554	480	426	650	568	420	257	479	2	
12 POR03PG80-2	549	---	403	366	611	445	322	449	4	
Red/Red Flesh										
13 PA96RR1-193	480	405	445	484	565	335	390	443	1	
14 POR03PG23-1	411	323	302	314	563	331	229	353	2	
Purple/Purple Flesh										
15 Purple Majesty	567	491	436	575	544	444	385	492	1	
16 OR00068-11	522	474	523	471	539	440	362	476	2	
Yellow Flesh										
17 Yukon Gold	484	383	328	356	522	322	442	405	6	
18 A00286-3Y	637	533	473	647	677	438	320	532	1	
19 A00293-2Y	579	---	419	520	521	345	320	451	3	
20 CO00412-5W/Y	492	485	446	496	---	338	303	427	5	
21 CO99045-1W/Y	580	537	487	590	---	415	340	491	2	
22 POR02PG37-2	474	411	410	357	589	328	433	429	4	
Mean	516	478	422	471	583	397	337	448		

Table 6. Yield and Percent < 4 oz

Entry	Clone/Variety	Yield < 4 oz (Cwt/A & %)								Percent < 4 oz (Cwt/A & %)									
		CA	CO	ID	OR		TX	WA	Mean	Rank	CA	CO	ID	OR		TX	WA	Mean	Rank
		TUL	SLV	AB	COR	KLM	SPL	OTH			TUL	SLV	AB	COR	KLM	SPL	OTH		
Red/White Flesh																			
1	Dk Red Norland	53	89	42	52	46	90	43	59	4	9	21	9	10	7	20	13	13	5
2	Red LaSoda	42	73	40	29	31	46	16	39	7	8	13	9	6	5	10	4	8	7
3	ATTX98453-6R	48	69	81	46	---	59	70	62	3	10	19	22	12	---	16	22	17	3
4	BTX2332-1R	53	42	72	43	---	78	56	57	5	10	8	17	10	---	18	14	13	6
5	COTX94216-1R	89	93	125	60	---	86	144	99	2	19	18	33	15	---	28	61	29	1
6	COTX94218-1R	91	95	121	66	---	140	112	104	1	20	17	28	13	---	32	51	27	2
7	NDTX4784-7R	55	64	51	43	---	63	51	54	6	11	14	13	11	---	17	14	13	4
Red-Purple/Yellow Flesh																			
8	A99326-1PY	62	---	84	82	65	53	29	63	4	11	---	18	17	11	12	8	13	4
9	AC99329-7PW/Y	79	105	105	46	---	123	84	90	3	18	18	24	10	---	25	27	20	3
10	AC99330-1P/Y	248	220	301	140	---	202	224	223	1	61	42	80	33	---	52	64	55	1
11	POR01PG45-5	158	129	197	108	191	211	133	161	2	29	27	46	17	34	50	52	36	2
12	POR03PG80-2	26	---	33	38	44	39	28	35	5	5	---	8	10	7	9	9	8	5
Red/Red Flesh																			
13	PA96RR1-193	283	204	314	108	283	223	246	237	1	59	50	71	22	50	67	63	55	2
14	POR03PG23-1	278	167	258	106	302	186	134	204	2	68	52	85	34	54	56	58	58	1
Purple/Purple Flesh																			
15	Purple Majesty	232	244	305	166	256	221	215	234	1	41	50	70	29	47	50	56	49	1
16	OR00068-11	207	235	207	100	209	206	203	195	2	40	50	40	21	39	47	56	42	2
Yellow Flesh																			
17	Yukon Gold	54	34	49	34	57	51	22	43	6	11	9	15	10	11	16	5	11	6
18	A00286-3Y	56	157	208	77	102	131	154	127	3	9	30	44	12	15	30	48	27	4
19	A00293-2Y	128	---	216	103	201	159	131	156	1	22	---	52	20	39	46	41	37	1
20	CO00412-5W/Y	126	75	189	114	---	125	93	120	5	26	15	42	23	---	37	31	29	3
21	CO99045-1W/Y	94	136	174	145	---	115	62	121	4	16	25	36	25	---	28	18	25	5
22	POR02PG37-2	190	183	182	88	146	138	109	148	2	40	45	44	25	25	42	25	35	2
Mean		121	127	152	82	149	125	107	120		25	27	37	17	26	32	34	28	

Table 7. Yield and Percent 4-6 oz.

Entry Clone/Variety	Yield 4-6 oz (Cwt/A)							Percent 4-6 oz (%)								
	CA	ID	OR		TX	WA	Mean	Rank	CA	ID	OR		TX	WA	Mean	Rank
	TUL	AB	COR	KLM	SPL	OTH			TUL	AB	COR	KLM	SPL	OTH		
Red/White Flesh																
1 Dk Red Norland	105	79	65	69	68	61	74	6	17	16	12	11	16	18	15	6
2 Red LaSoda	82	66	54	46	81	34	60	7	15	15	12	7	18	8	13	7
3 ATTX98453-6R	67	98	60	---	82	78	77	5	14	27	15	---	22	24	21	3
4 BTX2332-1R	78	100	68	---	97	89	86	2	14	23	15	---	22	22	19	5
5 COTX94216-1R	102	88	73	---	95	56	83	3	21	23	18	---	31	24	23	2
6 COTX94218-1R	133	137	77	---	120	59	105	1	29	32	15	---	27	27	26	1
7 NDTX4784-7R	85	82	54	---	111	68	80	4	17	21	13	---	31	18	20	4
Red-Purple/Yellow Flesh																
8 A99326-1PY	101	112	68	115	124	44	94	4	17	25	14	19	27	12	19	4
9 AC99329-7PW/Y	97	104	70	---	159	85	103	2	22	24	16	---	32	27	24	3
10 AC99330-1P/Y	111	55	68	---	154	86	95	3	27	15	16	---	40	24	24	2
11 POR01PG45-5	171	114	89	123	186	81	127	1	31	27	14	22	44	32	28	1
12 POR03PG80-2	67	75	18	58	160	77	76	5	12	19	5	10	36	24	18	5
Red/Red Flesh																
13 PA96RR1-193	155	93	105	152	83	108	116	1	32	21	22	27	25	28	26	1
14 POR03PG23-1	105	34	36	129	35	65	67	2	26	11	11	23	11	28	18	2
Purple/Purple Flesh																
15 Purple Majesty	196	97	102	134	84	114	121	2	35	22	18	25	19	30	25	2
16 OR00068-11	194	152	101	141	77	134	133	1	37	29	21	26	18	37	28	1
Yellow Flesh																
17 Yukon Gold	79	74	42	59	107	23	64	6	16	23	12	11	33	5	17	6
18 A00286-3Y	121	144	94	98	175	93	121	4	19	30	15	15	40	29	25	5
19 A00293-2Y	199	127	67	159	161	101	136	1	34	30	13	31	46	32	31	2
20 CO00412-5W/Y	143	151	86	---	163	87	126	3	29	34	17	---	48	29	31	1
21 CO99045-1W/Y	133	146	64	---	158	77	116	5	23	30	11	---	38	23	25	4
22 POR02PG37-2	148	134	70	152	148	107	126	2	31	33	20	26	45	25	30	3
Mean	121	103	70	110	119	78	99		24	24	15	19	30	24	23	

Table 8. Yield and Percent 6-10 oz.

Entry Clone/Variety	Yield 6-10 oz (Cwt/A)							Percent 6-10 oz (%)								
	CA	ID	OR		TX	WA	Mean	Rank	CA	ID	OR		TX	WA	Mean	Rank
	TUL	AB	COR	KLM	SPL	OTH			TUL	AB	COR	KLM	SPL	OTH		
Red/White Flesh																
1 Dk Red Norland	288	228	223	203	210	94	208	<i>1</i>	48	47	42	32	48	28	41	<i>1</i>
2 Red LaSoda	249	212	180	180	210	113	191	<i>2</i>	45	47	39	29	48	27	39	<i>5</i>
3 ATTX98453-6R	144	149	163	---	198	106	152	<i>5</i>	31	41	41	---	54	33	40	<i>3</i>
4 BTX2332-1R	186	154	203	---	184	173	180	<i>3</i>	34	36	45	---	42	43	40	<i>4</i>
5 COTX94216-1R	169	97	175	---	109	29	116	<i>7</i>	35	26	43	---	36	12	30	<i>7</i>
6 COTX94218-1R	163	153	201	---	165	43	145	<i>6</i>	36	35	40	---	38	20	34	<i>6</i>
7 NDTX4784-7R	169	173	205	---	124	134	161	<i>4</i>	34	45	50	---	34	36	40	<i>2</i>
Red-Purple/Yellow Flesh																
8 A99326-1PY	199	192	168	230	147	120	176	<i>2</i>	34	42	34	37	32	34	36	<i>3</i>
9 AC99329-7PW/Y	154	173	202	---	143	99	154	<i>3</i>	34	39	45	---	29	32	36	<i>2</i>
10 AC99330-1P/Y	41	21	87	---	32	34	43	<i>5</i>	10	6	21	---	8	10	11	<i>5</i>
11 POR01PG45-5	170	99	241	181	23	30	124	<i>4</i>	31	23	37	32	5	12	23	<i>4</i>
12 POR03PG80-2	193	191	178	176	170	153	177	<i>1</i>	35	47	49	29	38	48	41	<i>1</i>
Red/Red Flesh																
13 PA96RR1-193	36	36	157	95	21	28	62	<i>1</i>	8	8	32	17	6	7	13	<i>2</i>
14 POR03PG23-1	14	8	67	78	88	25	47	<i>2</i>	3	3	21	14	27	11	13	<i>1</i>
Purple/Purple Flesh																
15 Purple Majesty	110	29	151	100	114	49	92	<i>2</i>	19	7	26	18	26	13	18	<i>2</i>
16 OR00068-11	112	127	171	139	137	19	117	<i>1</i>	21	24	36	26	31	5	24	<i>1</i>
Yellow Flesh																
17 Yukon Gold	173	155	156	161	112	105	144	<i>3</i>	36	47	44	31	35	24	36	<i>1</i>
18 A00286-3Y	281	103	321	198	115	69	181	<i>1</i>	44	22	50	29	26	22	32	<i>2</i>
19 A00293-2Y	205	71	212	121	26	71	118	<i>4</i>	35	17	41	23	7	22	24	<i>6</i>
20 CO00412-5W/Y	168	93	146	---	50	92	110	<i>6</i>	34	21	29	---	15	30	26	<i>4</i>
21 CO99045-1W/Y	213	119	192	---	108	114	149	<i>2</i>	37	24	33	---	26	34	31	<i>3</i>
22 POR02PG37-2	109	91	100	200	37	153	115	<i>5</i>	23	22	28	34	11	35	26	<i>5</i>
Mean	161	122	177	159	115	84	135		30	29	38	27	28	24	30	

Table 9. Yield and Percent >10 oz.

Entry Clone/Variety	Yield >10 oz (Cwt/A)								Percent >10 oz (%)									
	CA ¹	CO	ID	OR		TX	WA	Mean	Rank	CA ¹	CO	ID	OR		TX	WA	Mean	Rank
	TUL	SLV	AB	COR	KLM	SPL	OTH			TUL	SLV	AB	COR	KLM	SPL	OTH		
Red/White Flesh																		
1 Dk Red Norland	102	32	104	98	252	71	99	108	3	17	7	21	18	40	16	30	21	3
2 Red LaSoda	109	115	127	101	258	103	224	148	1	20	20	28	22	41	23	53	30	1
3 ATTX98453-6R	111	72	33	64	---	29	42	59	5	24	19	9	16	---	8	13	15	5
4 BTX2332-1R	131	193	100	83	---	82	74	110	2	24	37	23	18	---	19	18	23	2
5 COTX94216-1R	68	143	42	44	---	13	0	52	6	14	27	11	11	---	4	0	11	6
6 COTX94218-1R	34	113	14	88	---	13	4	44	7	7	20	3	17	---	3	2	9	7
7 NDTX4784-7R	101	93	65	43	---	63	76	73	4	21	20	17	11	---	17	20	18	4
Red-Purple/Yellow Flesh																		
8 A99326-1PY	128	---	62	50	151	129	141	110	2	22	---	14	10	24	29	40	23	2
9 AC99329-7PW/Y	78	118	37	69	---	68	29	66	3	17	20	8	15	---	14	9	14	3
10 AC99330-1P/Y	1	11	0	0	---	0	0	2	5	0	2	0	0	---	0	0	0	5
11 POR01PG45-5	29	48	12	30	38	0	2	23	4	5	10	3	5	7	0	1	4	4
12 POR03PG80-2	162	---	79	85	252	76	58	119	1	30	---	20	23	41	17	18	25	1
Red/Red Flesh																		
13 PA96RR1-193	1	18	1	6	0	8	0	5	2	0	4	0	1	0	2	0	1	2
14 POR03PG23-1	1	6	0	2	10	22	3	6	1	0	2	0	1	2	7	1	2	1
Purple/Purple Flesh																		
15 Purple Majesty	14	35	3	4	2	25	2	12	2	2	7	1	1	0	6	1	3	2
16 OR00068-11	4	28	34	4	13	20	4	15	1	1	6	7	1	2	5	1	3	1
Yellow Flesh																		
17 Yukon Gold	95	127	47	60	205	52	230	116	1	20	33	14	17	39	16	52	27	1
18 A00286-3Y	120	55	13	45	207	16	5	66	2	19	10	3	7	31	4	2	11	3
19 A00293-2Y	32	---	5	25	17	0	16	16	6	6	---	1	5	3	0	5	3	6
20 CO00412-5W/Y	33	108	8	15	---	0	22	31	4	7	22	2	3	---	0	7	7	4
21 CO99045-1W/Y	80	111	25	20	---	34	76	58	3	14	21	5	3	---	8	22	12	2
22 POR02PG37-2	10	24	0	3	33	5	52	18	5	2	6	0	1	6	1	12	4	5
Mean	66	76	37	43	111	38	53	57		12	16	9	9	18	9	14	12	

^{1/}10-14 oz.

Table 10. Yield and Percent 4-10 oz.

Entry	Clone/Variety	Yield 4-10 oz (Cwt/A)							Percent 4-10 oz (%)										
		CA	CO	ID	OR		TX	WA	CA	CO	ID	OR		TX	WA				
		TUL	SLV	AB	COR	KLM	SPL	OTH	Mean	Rank	TUL	SLV	AB	COR	KLM	SPL	OTH	Mean	Rank
Red/White Flesh																			
1	Dk Red Norland	393	308	307	288	272	278	154	286	<i>1</i>	65	71	63	54	43	63	47	58	<i>5</i>
2	Red LaSoda	331	363	278	234	226	291	147	267	<i>3</i>	60	65	62	51	36	66	35	54	<i>7</i>
3	ATTX98453-6R	211	227	247	223	---	279	184	229	<i>6</i>	45	61	68	57	---	76	57	61	<i>2</i>
4	BTX2332-1R	264	281	254	271	---	281	262	269	<i>2</i>	48	53	59	60	---	64	65	58	<i>4</i>
5	COTX94216-1R	271	288	185	248	---	205	85	214	<i>7</i>	56	54	49	60	---	67	36	54	<i>6</i>
6	COTX94218-1R	296	307	290	278	---	285	102	260	<i>4</i>	65	54	67	55	---	65	47	59	<i>3</i>
7	NDTX4784-7R	254	295	255	259	---	236	201	250	<i>5</i>	52	64	67	64	---	65	54	61	<i>1</i>
Red-Purple/Yellow Flesh																			
8	A99326-1PY	300	---	304	236	346	270	164	270	<i>2</i>	52	---	67	48	56	60	47	55	<i>3</i>
9	AC99329-7PW/Y	251	353	277	272	---	302	184	273	<i>1</i>	56	60	63	60	---	61	59	60	<i>1</i>
10	AC99330-1P/Y	152	291	76	155	---	187	120	163	<i>5</i>	37	56	20	37	---	48	34	39	<i>5</i>
11	POR01PG45-5	341	289	213	330	304	209	111	257	<i>3</i>	62	60	50	51	54	50	43	53	<i>4</i>
12	POR03PG80-2	260	---	266	196	235	330	230	253	<i>4</i>	47	---	66	54	38	74	72	59	<i>2</i>
Red/Red Flesh																			
13	PA96RR1-193	191	178	129	262	248	104	136	178	<i>1</i>	40	44	29	54	44	31	35	39	<i>1</i>
14	POR03PG23-1	119	151	42	103	207	123	89	119	<i>2</i>	29	47	14	33	37	37	39	34	<i>2</i>
Purple/Purple Flesh																			
15	Purple Majesty	306	211	126	253	235	198	163	213	<i>2</i>	54	43	29	44	43	45	42	43	<i>2</i>
16	OR00068-11	306	212	279	272	280	214	152	245	<i>1</i>	59	45	53	58	52	49	42	51	<i>1</i>
Yellow Flesh																			
17	Yukon Gold	252	221	229	198	220	219	128	210	<i>6</i>	52	58	70	56	42	68	29	53	<i>6</i>
18	A00286-3Y	402	319	247	415	296	291	162	305	<i>1</i>	63	60	52	64	44	66	50	57	<i>2</i>
19	A00293-2Y	404	---	198	279	280	186	172	253	<i>3</i>	70	---	47	54	54	54	54	55	<i>3</i>
20	CO00412-5W/Y	311	288	244	232	---	213	178	244	<i>4</i>	63	59	55	47	---	63	59	58	<i>1</i>
21	CO99045-1W/Y	346	286	265	256	---	266	191	268	<i>2</i>	60	53	54	43	---	64	56	55	<i>4</i>
22	POR02PG37-2	257	203	225	170	352	185	260	236	<i>5</i>	54	49	55	48	60	56	60	55	<i>5</i>
Mean		283	267	224	247	269	234	163	239		54	56	53	52	46	59	48	53	

Table 11. Yield and Percent Culls

Entry	Clone/Variety	Yield Culls (Cwt/A)								Percent Culls (%)									
		CA ¹	CO	ID	OR		TX	WA	Mean	Rank	CA ¹	CO	ID	OR		TX	WA	Mean	Rank
		TUL	SLV	AB	COR	KLM	SPL	OTH			TUL	SLV	AB	COR	KLM	SPL	OTH		
Red/White Flesh																			
1	Dk Red Norland	53	3	32	53	64	0	35	34	2	9	1	7	10	10	0	11	7	2
2	Red LaSoda	69	10	7	67	107	0	34	42	1	13	2	2	15	17	0	8	8	1
3	ATTX98453-6R	100	5	1	19	---	0	26	25	4	21	1	0	5	---	0	8	6	4
4	BTX2332-1R	97	11	7	13	---	0	10	23	5	18	2	2	3	---	0	2	4	5
5	COTX94216-1R	53	6	23	7	---	2	6	16	7	11	1	6	2	---	1	3	4	6
6	COTX94218-1R	34	48	7	21	---	0	1	19	6	7	9	2	4	---	0	1	4	7
7	NDTX4784-7R	79	11	11	23	---	0	44	28	3	16	2	3	6	---	0	12	6	3
Red-Purple/Yellow Flesh																			
8	A99326-1PY	90	---	5	59	60	0	19	39	1	16	---	1	12	10	0	5	7	1
9	AC99329-7PW/Y	40	10	19	33	---	0	14	19	4	9	2	4	7	---	0	5	4	4
10	AC99330-1P/Y	5	0	1	6	---	0	7	3	5	1	0	0	1	---	0	2	1	5
11	POR01PG45-5	26	14	4	86	35	0	11	25	3	5	3	1	13	6	0	4	5	3
12	POR03PG80-2	102	---	25	13	80	0	5	37	2	19	---	6	4	13	0	2	7	2
Red/Red Flesh																			
13	PA96RR1-193	6	6	1	12	33	0	9	9	2	1	1	0	2	6	0	2	2	2
14	POR03PG23-1	12	0	2	10	43	0	3	10	1	3	0	1	3	8	0	1	2	1
Purple/Purple Flesh																			
15	Purple Majesty	15	0	2	5	51	0	5	11	1	3	0	0	1	9	0	1	2	1
16	OR00068-11	5	0	3	6	37	0	3	8	2	1	0	1	1	7	0	1	1	2
Yellow Flesh																			
17	Yukon Gold	83	1	3	32	40	0	61	32	1	17	0	1	9	8	0	14	7	1
18	A00286-3Y	58	1	5	40	71	0	0	25	2	9	0	1	6	11	0	0	4	3
19	A00293-2Y	15	---	0	23	23	0	1	10	6	3	---	0	4	4	0	0	2	6
20	CO00412-5W/Y	23	14	5	38	---	0	10	15	5	5	3	1	8	---	0	3	3	5
21	CO99045-1W/Y	60	4	23	45	---	0	11	24	3	10	1	5	8	---	0	3	4	2
22	POR02PG37-2	18	1	3	22	58	0	13	16	4	4	0	1	6	10	0	3	3	4
Mean		47	8	9	29	54	0	15	21		9	1	2	6	9	0	4	4	

¹Culls include 2's and tubers >14 oz.

Table 12. Specific Gravity

Entry	Clone/Variety	Specific Gravity							Mean	Rank
		CA	CO	ID	OR		TX	WA		
		TUL	SLV	AB	COR	KLM	SPL	OTH		
Red/White Flesh										
1	Dk Red Norland	1.075	1.072	1.069	1.067	1.074	1.056	1.060	1.068	7
2	Red LaSoda	1.086	1.085	1.071	1.065	1.077	1.062	1.059	1.072	3
3	ATTX98453-6R	1.084	1.071	1.068	1.073	---	1.069	1.067	1.072	4
4	BTX2332-1R	1.079	1.074	1.068	1.073	---	1.060	1.064	1.070	6
5	COTX94216-1R	1.082	1.081	1.070	1.071	---	1.071	1.060	1.072	2
6	COTX94218-1R	1.092	1.086	1.068	1.083	---	1.073	1.066	1.078	1
7	NDTX4784-7R	1.096	1.074	1.070	1.071	---	1.063	1.058	1.072	5
Red-Purple/Yellow Flesh										
8	A99326-1PY	1.081	---	1.076	1.089	1.083	1.066	1.067	1.077	3
9	AC99329-7PW/Y	1.096	1.094	1.078	1.077	---	1.074	1.071	1.082	2
10	AC99330-1P/Y	1.082	1.083	1.076	1.081	---	1.068	1.064	1.076	4
11	POR01PG45-5	1.097	1.101	1.084	1.095	1.091	1.079	1.079	1.089	1
12	POR03PG80-2	1.079	---	1.067	1.073	1.076	1.066	1.063	1.071	5
Red/Red Flesh										
13	PA96RR1-193	1.092	1.091	1.089	1.080	1.086	1.077	1.072	1.084	1
14	POR03PG23-1	1.085	1.070	1.080	1.064	1.076	1.065	1.060	1.071	2
Purple/Purple Flesh										
15	Purple Majesty	1.083	1.084	1.083	1.077	1.088	1.071	1.069	1.079	2
16	OR00068-11	1.094	1.093	1.090	1.094	1.093	1.084	1.082	1.090	1
Yellow Flesh										
17	Yukon Gold	1.089	1.092	1.083	1.083	1.089	1.075	1.081	1.084	2
18	A00286-3Y	1.093	1.089	1.072	1.089	1.086	1.067	1.060	1.079	5
19	A00293-2Y	1.086	---	1.070	1.088	1.086	1.072	1.066	1.078	6
20	CO00412-5W/Y	1.096	1.090	1.083	1.089	---	1.078	1.083	1.087	1
21	CO99045-1W/Y	1.089	1.090	1.078	1.098	---	1.076	1.069	1.083	3
22	POR02PG37-2	1.089	1.089	1.086	1.080	1.082	1.075	1.077	1.083	4
Mean		1.088	1.085	1.076	1.080	1.084	1.070	1.068	1.078	

Table 13. Average Tuber Size and Tubers Per Plant

Entry	Clone/Variety	Average Tuber Size (oz)						Tubers/plant						
		CA	ID	OR		TX	WA	Mean	CA	OR		TX	WA	Mean
		TUL	AB	COR	KLM	SPL	OTH		TUL	COR	KLM	SPL	OTH	
Red/White Flesh														
1	Dk Red Norland	6.7	6.8	6.1	8.1	5.3	7.4	6.7	8.4	6.9	6.6	6.9	4.8	6.7
2	Red LaSoda	7.1	7.0	7.0	8.6	6.0	11.7	7.9	7.5	5.4	6.1	6.1	3.9	5.8
3	ATTX98453-6R	7.3	4.8	5.3	---	5.5	6.2	5.8	9.2	5.8	---	5.6	5.6	6.5
4	BTX2332-1R	7.0	5.7	5.9	---	5.3	7.2	6.2	7.3	6.1	---	6.9	6.0	6.6
5	COTX94216-1R	5.5	4.2	4.9	---	3.7	3.9	4.4	11.4	6.2	---	7.2	6.6	7.8
6	COTX94218-1R	4.9	4.4	5.5	---	3.8	4.3	4.6	10.8	7.1	---	9.9	5.6	8.4
7	NDTX4784-7R	6.6	5.7	5.4	---	5.5	7.2	6.1	11.3	5.9	---	6.6	5.6	7.4
Red-Purple/Yellow Flesh														
8	A99326-1PY	7.0	5.4	4.6	7.3	6.4	9.3	6.7	7.9	8.1	7.1	6.0	4.1	6.7
9	AC99329-7PW/Y	5.7	4.7	6.0	---	4.7	5.4	5.3	9.8	6.1	---	9.2	6.3	7.8
10	AC99330-1P/Y	3.2	2.7	3.3	---	2.5	3.8	3.1	13.7	7.8	---	13.4	10.1	11.2
11	POR01PG45-5	4.2	3.6	5.8	4.4	3.1	4.2	4.2	11.5	8.5	10.7	11.6	6.5	9.8
12	POR03PG80-2	8.1	6.7	7.3	8.4	5.8	7.8	7.3	7.1	4.0	6.0	6.4	4.4	5.6
Red/Red Flesh														
13	PA96RR1-193	3.4	3.3	3.7	3.1	2.9	3.8	3.4	13.9	9.1	15.3	9.6	11.2	11.8
14	POR03PG23-1	3.1	2.5	3.4	2.8	2.5	3.8	3.0	13.2	5.6	16.8	11.3	6.6	10.7
Purple/Purple Flesh														
15	Purple Majesty	4.0	3.0	3.8	3.4	3.8	4.3	3.7	13.6	9.8	13.4	9.8	9.9	11.3
16	OR00068-11	3.9	4.1	4.1	4.0	3.7	4.2	4.0	12.9	8.3	11.7	9.9	9.4	10.5
Yellow Flesh														
17	Yukon Gold	6.9	5.5	6.3	7.2	5.3	12.2	7.2	7.3	4.5	6.2	5.1	4.0	5.4
18	A00286-3Y	6.4	3.8	5.7	6.1	3.5	4.4	5.0	11.1	8.7	9.3	10.5	7.9	9.5
19	A00293-2Y	5.0	3.5	4.8	3.9	3.1	4.9	4.2	11.2	7.9	11.3	9.1	7.1	9.3
20	CO00412-5W/Y	4.7	3.8	4.4	---	3.5	5.5	4.4	11.1	7.7	---	8.4	5.9	8.3
21	CO99045-1W/Y	5.7	4.2	4.9	---	4.4	7.0	5.2	11.1	8.5	---	7.9	5.3	8.2
22	POR02PG37-2	3.9	3.7	3.8	4.2	3.9	6.1	4.3	13.8	6.5	11.6	7.2	7.7	9.4
Mean		5.5	4.5	5.1	5.5	4.3	6.1	5.1	10.7	7.0	10.2	8.4	6.6	8.4

Table 14. Tuber Uniformity and Fresh Merit Score

Entry	Clone/Variety	Tuber Uniformity (1-5 excellent)				Fresh Merit Score (1-5 best)						Process Merit	Process CO/SLV		
		CA	OR		WA	Mean	CO	ID	OR	TX	Mean	Rank	score (1-5 best)	fry color (4=darkest)	
		TUL	COR	KLM	OTH		SLV	AB	COR	SPL				CO/ SLV	Harvest
Red/White Flesh															
1	Dk Red Norland	2.9	2.8	3.6	1.7	2.7	2.0	2.3	4.0	2.9	2.8	6	1.0	3.0	3.0
2	Red LaSoda	3.4	2.0	2.8	1.0	2.3	2.0	1.3	3.0	3.2	2.4	7	2.0	2.0	3.0
3	ATTX98453-6R	3.6	3.0	---	1.7	2.8	1.0	3.5	4.0	3.7	3.0	5	1.0	3.0	4.0
4	BTX2332-1R	3.0	2.8	---	4.3	3.4	4.0	2.0	4.0	3.6	3.4	3	2.0	2.0	3.0
5	COTX94216-1R	2.9	2.8	---	4.0	3.2	4.0	2.5	5.0	3.3	3.7	1	1.0	3.0	4.0
6	COTX94218-1R	3.8	2.8	---	3.3	3.3	3.0	2.3	4.0	3.6	3.2	4	2.0	2.0	3.0
7	NDTX4784-7R	3.3	2.5	---	1.0	2.3	3.0	2.8	5.0	3.5	3.6	2	2.0	2.0	3.0
Red-Purple/Yellow Flesh															
8	A99326-1PY	3.3	2.3	3.6	2.7	3.0	---	2.5	4.0	3.0	3.2	5	---	---	---
9	AC99329-7PW/Y	3.3	3.0	---	3.7	3.3	5.0	2.3	3.0	2.9	3.3	2	1.0	4.0	3.0
10	AC99330-1P/Y	3.4	2.5	---	4.0	3.3	4.0	3.0	3.0	3.3	3.3	1	1.0	4.0	4.0
11	POR01PG45-5	2.9	2.8	3.6	2.7	3.0	3.0	2.8	4.0	3.2	3.2	4	4.0	2.0	2.0
12	POR03PG80-2	2.8	3.5	3.8	4.0	3.5	---	2.8	4.0	3.1	3.3	3	---	---	---
Red/Red Flesh															
13	PA96RR1-193	4.0	2.8	4.0	3.7	3.6	2.0	3.5	4.0	3.2	3.2	2	---	---	---
14	POR03PG23-1	3.1	3.3	3.9	4.0	3.6	1.0	3.5	5.0	4.4	3.5	1	---	---	---
Purple/Purple Flesh															
15	Purple Majesty	2.5	2.5	3.2	4.0	3.0	3.0	2.0	4.0	3.5	3.1	1	---	---	---
16	OR00068-11	3.2	2.5	3.8	4.0	3.4	3.0	2.0	4.0	3.4	3.1	2	---	---	---
Yellow Flesh															
17	Yukon Gold	3.2	2.3	3.7	3.0	3.0	2.0	2.5	5.0	4.1	3.4	3	2.0	2.0	3.0
18	A00286-3Y	2.4	2.3	3.1	4.0	2.9	4.0	3.0	4.0	2.1	3.3	5	2.0	2.0	3.0
19	A00293-2Y	2.9	3.5	3.9	3.3	3.4	---	2.0	4.0	3.3	3.1	6	---	---	---
20	CO00412-5W/Y	2.8	2.8	---	3.3	3.0	4.0	3.7	3.0	2.6	3.3	4	1.0	3.0	4.0
21	CO99045-1W/Y	3.4	3.5	---	3.3	3.4	4.0	3.8	5.0	3.1	4.0	1	1.0	3.0	4.0
22	POR02PG37-2	3.1	2.5	4.0	3.7	3.3	2.0	3.3	5.0	3.7	3.5	2	3.0	1.0	2.0
Mean		3.1	2.8	3.6	3.2	3.1	2.9	2.7	4.1	3.3	3.3		1.7	2.5	3.2

Table 15. Tuber Shape and Length Width Ratio

Entry	Clone/Variety	Tuber Shape (1 - 5 long)							L/W				
		CA	CO	ID	OR		TX	WA	Mean	ID	OR	WA	Mean
		TUL	SLV	AB	COR	KLM	SPL	OTH		AB	COR	OTH	
Red/White Flesh													
1	Dk Red Norland	2.5	2.0	2.8	3.0	2.3	3.0	1.0	2.4	1.22	1.20	1.15	1.19
2	Red LaSoda	2.2	3.0	2.8	2.5	2.3	3.0	1.0	2.4	1.15	1.10	1.16	1.14
3	ATTX98453-6R	2.4	2.0	2.0	2.8	---	1.2	1.0	1.9	1.11	1.10	1.00	1.07
4	BTX2332-1R	2.6	2.0	1.3	2.8	---	1.3	1.0	1.8	1.12	1.10	1.05	1.09
5	COTX94216-1R	2.2	2.0	1.3	2.3	---	1.0	1.0	1.6	1.03	1.10	1.08	1.07
6	COTX94218-1R	2.1	2.0	1.3	2.8	---	1.3	1.0	1.8	1.00	1.10	1.03	1.04
7	NDTX4784-7R	2.1	1.0	1.0	3.0	---	1.0	1.0	1.5	0.97	1.00	1.06	1.01
Red-Purple/Yellow Flesh													
8	A99326-1PY	2.7	---	1.3	2.5	2.3	1.8	1.0	1.9	1.01	1.00	1.13	1.05
9	AC99329-7PW/Y	2.5	2.0	2.0	2.8	---	1.5	1.0	2.0	1.05	1.20	1.01	1.09
10	AC99330-1P/Y	1.6	1.0	1.3	2.5	---	1.0	1.0	1.4	1.30	1.10	1.13	1.18
11	POR01PG45-5	4.0	4.0	2.5	2.8	2.9	3.5	2.7	3.2	1.47	1.30	1.43	1.40
12	POR03PG80-2	4.1	---	4.0	3.0	4.0	4.0	3.0	3.7	1.45	1.50	1.59	1.51
Red/Red Flesh													
13	PA96RR1-193	1.9	1.0	1.0	2.3	1.4	1.5	1.0	1.4	1.05	1.00	1.08	1.04
14	POR03PG23-1	3.1	2.0	1.5	3.3	2.0	3.5	2.0	2.5	1.33	1.30	1.23	1.28
Purple/Purple Flesh													
15	Purple Majesty	4.7	2.0	1.5	2.5	2.5	3.5	3.7	2.9	1.23	1.20	1.44	1.29
16	OR00068-11	3.3	1.0	2.3	2.5	2.0	3.5	1.0	2.2	1.17	1.20	1.12	1.16
Yellow Flesh													
17	Yukon Gold	2.7	2.0	2.0	3.3	2.5	2.1	2.7	2.5	1.08	1.10	1.19	1.12
18	A00286-3Y	3.2	2.0	2.0	2.5	2.8	1.8	2.3	2.4	1.24	1.20	1.34	1.26
19	A00293-2Y	3.5	---	2.3	3.0	2.1	2.6	2.0	2.6	1.30	1.30	1.26	1.29
20	CO00412-5W/Y	3.3	2.0	2.3	2.8	---	3.7	1.0	2.5	1.31	1.20	1.22	1.24
21	CO99045-1W/Y	4.0	4.0	3.8	2.8	---	4.5	3.3	3.7	1.71	1.50	1.72	1.64
22	POR02PG37-2	3.5	2.0	1.8	3.0	1.8	1.5	2.0	2.2	1.16	1.10	1.15	1.14
Mean		2.9	2.1	2.0	2.8	2.4	2.3	1.7	2.3	1.20	1.18	1.21	1.20

Table 16. Skin and Flesh Color

Entry	Clone/Variety	Skin Color (1 - 5 dark)							Tuber Skin (1-5 heavy)			Flesh Color (1 - 5 dark)						
		CA	CO	ID	OR		TX	Mean	OR	WA	Mean	CA	CO	ID	OR		TX	Mean
		TUL	SLV ¹	AB	COR	KLM	SPL		KLM	OTH		TUL	SLV ¹	AB	COR	KLM	SPL	
Red/White Flesh																		
1	Dk Red Norland	1.9	1.0	2.8	2.0	2.0	2.9	2.1	1.4	1.0	1.2	1.0	1.0	1.0	1.0	1.6	1.0	1.1
2	Red LaSoda	2.3	1.0	2.5	1.5	2.1	3.0	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.8	1.0	1.1
3	ATTX98453-6R	2.8	1.0	3.0	1.8	---	3.5	2.4	---	1.0	1.0	1.0	1.0	1.0	---	1.0	---	1.0
4	BTX2332-1R	3.5	2.0	3.5	2.3	---	3.5	3.0	---	1.0	1.0	2.0	1.0	1.0	1.0	---	1.0	1.2
5	COTX94216-1R	3.7	3.0	4.3	3.3	---	4.1	3.7	---	1.0	1.0	1.0	1.0	1.0	1.0	---	1.0	1.0
6	COTX94218-1R	3.0	2.0	3.0	3.0	---	3.9	3.0	---	1.0	1.0	1.3	1.0	1.0	1.0	---	1.0	1.1
7	NDTX4784-7R	3.7	3.0	3.3	3.3	---	4.5	3.6	---	1.0	1.0	1.7	1.0	1.0	1.0	---	1.0	1.1
Red-Purple/Yellow Flesh																		
8	A99326-1PY	3.5	---	4.5	3.0	3.3	5.0	3.9	1.3	1.0	1.1	2.7	---	3.0	3.5	3.3	3.5	3.2
9	AC99329-7PW/Y	3.3	2.0	3.3	5.0	---	5.0	3.7	---	2.3	2.3	2.7	3.0	3.0	2.8	---	2.5	2.8
10	AC99330-1P/Y	4.2	4.0	5.0	5.0	---	5.0	4.6	---	1.0	1.0	3.7	3.0	3.0	5.0	---	3.9	3.7
11	POR01PG45-5	3.3	1.0	4.3	1.5	3.4	5.0	3.1	1.3	1.0	1.1	2.3	1.0	2.0	3.3	2.4	3.1	2.4
12	POR03PG80-2	3.1	---	3.8	2.3	3.0	5.0	3.4	1.1	1.0	1.1	2.7	---	4.0	2.0	2.8	2.5	2.8
Red/Red Flesh																		
13	PA96RR1-193	4.3	5.0	4.5	1.5	4.0	4.0	3.9	1.3	1.0	1.1	2.0	3.0	2.0	1.5	1.5	2.0	2.0
14	POR03PG23-1	3.0	5.0	3.3	3.0	4.0	4.5	3.8	1.5	1.0	1.3	3.7	4.0	3.0	3.0	3.0	4.0	3.5
Purple/Purple Flesh																		
15	Purple Majesty	4.8	5.0	5.0	4.0	5.0	5.0	4.8	2.0	2.0	2.0	5.0	4.0	5.0	4.8	4.1	3.8	4.5
16	OR00068-11	5.0	5.0	5.0	4.0	4.0	5.0	4.7	1.5	2.0	1.8	3.7	3.0	5.0	3.5	3.8	2.5	3.6
Yellow Flesh																		
17	Yukon Gold	1.0	1.0	1.5	1.0	2.5	1.0	1.3	1.0	2.0	1.5	2.0	2.0	3.0	3.0	2.6	2.9	2.6
18	A00286-3Y	1.3	1.0	1.5	1.0	1.4	1.0	1.2	1.0	1.0	1.0	2.7	3.0	4.0	3.0	2.6	2.8	3.0
19	A00293-2Y	1.0	---	2.3	1.0	3.4	1.0	1.7	1.0	1.0	1.0	3.3	---	4.0	4.3	3.8	3.4	3.7
20	CO00412-5W/Y	2.0	1.0	2.3	1.0	---	3.8	2.0	---	2.7	2.7	3.7	4.0	3.0	3.0	---	3.0	3.3
21	CO99045-1W/Y	1.8	1.0	1.5	1.0	---	2.8	1.6	---	2.7	2.7	2.7	3.0	4.0	4.0	---	2.9	3.3
22	POR02PG37-2	1.0	1.0	1.3	1.0	2.9	1.0	1.4	1.0	1.0	1.0	3.7	3.0	4.0	3.3	3.3	3.0	3.4
Mean		2.9	2.4	3.3	2.4	3.1	3.6	2.9	1.3	1.3	1.4	2.5	2.3	2.7	2.6	2.8	2.4	2.5

^{1/}Dual color evaluated in San Luis Valley, CO, where secondary skin or flesh color rating was 1 (scale 1-5 dark). For purpose of this report, only primary color listed.

Table 17. Eye Depth and External Defects

Entry	Clone/Variety	Eye Depth ¹	External Defects ²							
			Greening	Growth Cracks	Knobs	Shatter Bruise	Scab			
Red/White Flesh										
1	Dk Red Norland	2.7	3.9	4.2	COR 2.0	4.8		4.6	4.6	
2	Red LaSoda	1.5	3.8	3.6	COR 1.0	4.3	COR 1.0	5.0	4.3	AB 2.8
3	ATTX98453-6R	3.6	4.1	4.2		4.9		4.5	4.3	AB 3.0
4	BTX2332-1R	3.8	4.4	4.4	SLV 3.0	4.8		4.5	4.5	
5	COTX94216-1R	3.4	4.6	4.8		4.2	COR 1.0	5.0	4.8	
6	COTX94218-1R	3.3	4.5	4.2	SLV 2.0	4.8		4.5	4.8	
7	NDTX4784-7R	3.4	4.5	3.4		4.8		4.0	4.3	AB 2.8
Red-Purple/Yellow Flesh										
8	A99326-1PY	3.6	3.9	COR 1.0	4.6	COR 3.0	4.8	5.0	4.3	AB 3.0
9	AC99329-7PW/Y	3.6	4.3		4.4		4.3	COR 2.0	5.0	AB 2.0
10	AC99330-1P/Y	3.1	5.0		5.0		4.8	5.0	4.5	
11	POR01PG45-5	4.0	4.9		4.1	COR 1.0	4.4	COR 1.0	5.0	4.5
12	POR03PG80-2	3.6	5.0		4.8		4.3	COR 1.0	4.6	4.8
Red/Red Flesh										
13	PA96RR1-193	3.2	4.0		4.7		4.7	5.0	4.7	
14	POR03PG23-1	4.0	4.9		4.7		5.0	5.0	4.4	
Purple/Purple Flesh										
15	Purple Majesty	4.0	5.0		4.8		5.0	5.0	4.2	AB 2.5
16	OR00068-11	3.7	5.0		5.0		5.0	5.0	3.8	AB 1.3
Yellow Flesh										
17	Yukon Gold	3.9	3.7	COR 1.0	4.5		4.6	4.6	3.9	AB 1.8
18	A00286-3Y	3.9	4.7		4.4	COR 1.0	4.8	4.9	4.5	
19	A00293-2Y	4.2	4.7		4.8		4.8	4.7	4.0	AB 2.0
20	CO00412-5W/Y	3.9	4.2		4.8		4.3	COR 1.0	5.0	4.7
21	CO99045-1W/Y	3.9	4.5		5.0		4.3	COR 1.0	3.5	4.6
22	POR02PG37-2	3.8	3.8	COR 1.0	5.0		4.8	4.9	4.3	
Mean		3.6	4.4		4.5		4.7	4.7	4.4	

^{1/} Average of 6 sites (1-5 shallow).

^{2/} Average of up to 6 sites (1 severe-5 none).

Table 18. Internal Defects

Entry	Clone/Variety	Percent Incidence (%) ¹										Blackspot Bruise		Zebra Chip ²	
		HH	BC		IBS		VD		BS		CO	WA	% Zebra chipped	% Zebra fresh	
Red/White Flesh															
1	Dk Red Norland	0.4		1.4		1.0		2.3		0.0		3.7	5.0	0	0
2	Red LaSoda	3.6	SLV 12	5.1	OTH 8	1.9	OTH 8	3.4	COR 12	5.0	KLM 10	3.6	5.0	20	8
3	ATTX98453-6R	0.7		0.0		1.2		0.6		0.0		3.2	5.0	0	0
4	BTX2332-1R	0.0		1.7		1.1		3.9	SPL 13	0.0		3.7	5.0	0	0
5	COTX94216-1R	0.5		0.0		0.0		0.8		0.0		4.0	5.0	10	0
6	COTX94218-1R	0.5		0.0		0.0		1.5		0.0		2.8	5.0	18	0
7	NDTX4784-7R	1.2		0.0		0.0		2.6		0.0		3.5	5.0	13	3
Red-Purple/Yellow Flesh															
8	A99326-1PY	4.3	SPL 23	0.8		1.5		2.4		1.3		---	5.0	3	0
9	AC99329-7PW/Y	0.0		0.0		4.5	OTH 14	4.1	AB 8	0.0		3.4	5.0	3	0
10	AC99330-1P/Y	0.8		0.0		0.8		5.8	TUL 17	0.0		4.5	5.0	0	0
11	POR01PG45-5	4.3	SPL 30	0.0		0.0		2.4	TUL 10	1.3		2.2	5.0	4	0
12	POR03PG80-2	0.0		0.8		0.0		3.4		0.0		---	5.0	0	3
Red/Red Flesh															
13	PA96RR1-193	0.0		0.0		2.5	KLM 10	0.2		0.0		---	5.0	0	0
14	POR03PG23-1	0.4		0.0		5.6	KLM 23	0.5		0.0		---	5.0	5	0
Purple/Purple Flesh															
15	Purple Majesty	1.8		0.0		0.0		1.0		0.0		---	2.0	8	0
16	OR00068-11	0.0		0.0		0.6		0.0		0.0		---	5.0	4	0
Yellow Flesh															
17	Yukon Gold	0.5		0.0		3.0		0.0		0.0		4.2	5.0	18	20
18	A00286-3Y	0.0		0.0		1.9		1.9	TUL 7	0.0		3.6	5.0	5	0
19	A00293-2Y	0.8		3.3	KLM 10	0.0		1.6		2.5		---	5.0	21	23
20	CO00412-5W/Y	3.0	SPL 10	0.0		0.0		0.3		0.0		3.5	5.0	8	48
21	CO99045-1W/Y	0.5		0.0		0.0		4.5	AB 18	0.0		3.8	5.0	8	30
22	POR02PG37-2	1.5		0.0		0.0		0.6		0.0		4.3	5.0	8	8
Mean		1.1		0.6		1.2		2.0		0.5		3.6	4.9	7.1	6.5

^{1/} Percent based on 10 cut tubers averaged from 6 sites.^{2/} Zebra chip data collected Spring Lake, TX.

Table 19. Disease Evaluation

Entry	Clone/Variety	Corvallis, Oregon			Hermiston, Oregon			Aberdeen, Idaho	
		L. Blight			Early Die ⁴	% Infected w/ PVY		Vert. ⁵	Early blight ⁵
		Foliar ¹	Tuber ²	AUDPC ³		PVY	Tubers tested		
Red/White Flesh									
1	Dk Red Norland	9.0	0.0	1158.5	8.8	100	13	2.0	1.5
2	Red LaSoda	9.0	5.0	1085.0	8.0	89	9	2.5	1.5
3	ATTX98453-6R	9.0	5.0	1179.5	9.0	89	18	2.0	1.5
4	BTX2332-1R	9.0	0.0	1102.5	8.5	100	20	3.5	3.0
5	COTX94216-1R	8.3	0.0	1091.1	9.0	100	5	2.0	2.5
6	COTX94218-1R	7.5	0.0	926.6	7.3	100	20	4.0	4.0
7	NDTX4784-7R	9.0	2.5	1175.1	9.0	100	7	2.5	2.0
Red-Purple/Yellow Flesh									
8	A99326-1PY	8.8	0.0	1051.8	9.0	---	0	3.5	2.5
9	AC99329-7PW/Y	7.3	5.0	868.0	8.2	5	20	4.0	4.0
10	AC99330-1P/Y	9.0	0.0	1063.1	9.0	40	5	2.0	2.5
11	POR01PG45-5	8.8	0.0	1134.9	7.2	15	20	4.0	3.5
12	POR03PG80-2	8.3	0.0	959.9	8.8	0	3	4.0	4.0
Red/Red Flesh									
13	PA96RR1-193	9.0	0.0	1260.9	8.5	100	20	3.0	2.0
14	POR03PG23-1	9.0	0.0	1043.9	8.8	100	20	3.0	1.5
Purple/Purple Flesh									
15	Purple Majesty	9.0	0.0	1235.5	9.0	100	20	2.5	2.0
16	OR00068-11	8.8	2.5	1164.6	8.3	95	20	3.0	2.0
Yellow Flesh									
17	Yukon Gold	8.8	2.5	1064.9	9.0	100	8	3.0	2.5
18	A00286-3Y	5.3	2.5	392.0	4.3	95	19	3.5	4.0
19	A00293-2Y	7.0	0.0	752.5	6.2	75	20	3.5	3.0
20	CO00412-5W/Y	7.8	0.0	885.5	7.7	70	30	3.0	2.5
21	CO99045-1W/Y	8.0	25.0	1000.1	8.2	90	20	3.5	3.5
22	POR02PG37-2	8.8	5.0	1034.3	9.0	95	20	3.0	2.0
Mean		8.4	2.5	1028.6	8.2	79	15	3.0	2.6

^{1/}Ratings are averages for 4 reps: 1=no foliar injury; 2=1-5%; 3=5-10%; 4=10-20%; 5=20-40%; 6=40-60%; 7=60-75%; 8=75-90%; 9= \geq 90-100% injury. Taken 10/13/09

^{2/} % of late blight infected tubers at harvest (10 randomly selected tubers).

^{3/} AUDPC = Area Under the Disease Progress Curve. Injury ratings: 1=0%; 2=1-5%; 3=5-10%; 4=10-20%; 5=20-40%; 6=40-60%; 7=60-75%; 8=75-90%; 9= \geq 90%

^{4/}Early die rating (0-9 dead for all trials).

^{5/} Disease rating (1-5 best).

Table 20. Culinary Tuber Quality

Entry	Clone/Variety	Washington Culinary Quality ¹				Rank	Overall Rank
		Boiling	Baking	Micro	Total		
Red/White Flesh							
1	Dk Red Norland	18.9	20.7	18.1	57.7	1	8
2	Red LaSoda	19.6	19.0	18.4	57.0	3	12
3	ATTX98453-6R	19.8	18.8	17.7	56.3	5	15
4	BTX2332-1R	17.1	19.2	17.9	54.1	7	21
5	COTX94216-1R	18.2	19.5	18.8	56.4	4	14
6	COTX94218-1R	17.8	19.3	18.9	56.0	6	18
7	NDTX4784-7R	19.0	18.8	19.4	57.3	2	10
Red-Purple/Yellow Flesh							
8	A99326-1PY	18.4	19.5	18.3	56.2	4	17
9	AC99329-7PW/Y	18.8	19.7	18.8	57.2	3	11
10	AC99330-1P/Y	18.4	17.7	19.3	55.4	5	20
11	POR01PG45-5	18.7	20.7	18.6	57.9	2	6
12	POR03PG80-2	19.6	19.0	20.3	59.0	1	2
Red/Red Flesh							
13	PA96RR1-193	19.7	19.2	19.4	58.3	1	5
14	POR03PG23-1	17.3	19.0	16.9	53.3	2	22
Purple/Purple Flesh							
15	Purple Majesty	19.2	19.5	19.2	57.9	1	7
16	OR00068-11	20.0	19.7	17.8	57.5	2	9
Yellow Flesh							
17	Yukon Gold	18.3	20.0	17.9	56.2	5	16
18	A00286-3Y	20.3	18.1	18.2	56.7	4	13
19	A00293-2Y	20.7	19.2	18.8	58.6	3	4
20	CO00412-5W/Y	20.2	21.3	17.7	59.1	1	1
21	CO99045-1W/Y	19.7	18.4	17.4	55.5	6	19
22	POR02PG37-2	20.7	19.7	18.6	58.9	2	3
Mean		19.1	19.4	18.5	56.9		

^{1/} Higher score = better quality, maximum = 25 per test. Knowles & Fuller, Pullman, WA.

Table 21. Tuber Composition and Antioxidant Equivalents

Entry	Clone/Variety	Aberdeen, Idaho						Antioxidant Equivalents, Springlake, TX ⁵		
		Solids	Protein ¹	Dextrose ²	Sucrose ²	Vitamin C ³	TGA ⁴	DPPH (µgTE/gfw)	ABTS (µgTE/gfw)	TP (mgCGA Eq /100gfw)
Red/White Flesh										
1	Dk Red Norland	18.1	5.1	0.070	0.190	24.9	3.2	222.08	661.25	75.76
2	Red LaSoda	18.5	5.5	0.080	0.270	27.9	3.5	166.42	524.11	74.54
3	ATTX98453-6R	17.9	4.9	0.150	0.240	23.6	1.3	291.90	776.37	99.31
4	BTX2332-1R	17.9	5.2	0.090	0.270	24.3	1.6	277.34	628.72	79.01
5	COTX94216-1R	17.4	5.5	0.240	0.230	16.7	5.5	254.68	745.88	88.16
6	COTX94218-1R	18.2	5.2	0.030	0.280	19.6	3.7	348.80	747.88	106.42
7	NDTX4784-7R	17.9	4.8	0.080	0.290	18.5	3.6	232.52	707.15	83.70
Red-Purple/Yellow Flesh										
8	A99326-1PY	18.7	5.7	0.050	0.160	19.0	3.0	276.90	676.45	79.00
9	AC99329-7PW/Y	20.3	5.8	0.080	0.330	24.6	1.4	268.33	497.18	68.35
10	AC99330-1P/Y	19.7	4.9	0.070	0.300	30.1	1.1	273.77	632.73	76.42
11	POR01PG45-5	21.4	5.6	0.030	0.300	20.4	4.1	277.34	600.73	78.22
12	POR03PG80-2	17.6	4.8	0.150	0.300	17.8	1.7	254.82	721.30	85.83
Red/Red Flesh										
13	PA96RR1-193	22.0	5.1	0.030	0.330	26.5	4.5	422.75	774.93	99.71
14	POR03PG23-1	19.6	4.5	0.070	0.250	27.5	2.4	789.40	777.89	126.51
Purple/Purple Flesh										
15	Purple Majesty	20.9	3.8	0.010	0.150	20.0	3.8	511.92	802.62	116.45
16	OR00068-11	22.7	4.7	0.020	0.210	25.4	5.8	548.21	788.74	113.10
Yellow Flesh										
17	Yukon Gold	21.0	5.4	0.050	0.300	31.5	2.7	295.90	701.59	95.86
18	A00286-3Y	18.8	5.0	0.080	0.190	21.8	5.7	241.48	662.76	82.55
19	A00293-2Y	19.1	5.2	0.050	0.200	16.0	2.1	185.17	628.29	80.71
20	CO00412-5W/Y	21.0	4.9	0.060	0.160	19.7	5.4	123.62	583.76	63.13
21	CO99045-1W/Y	19.7	4.9	0.170	0.210	27.4	1.7	136.15	656.48	80.02
22	POR02PG37-2	21.6	5.4	0.030	0.310	24.8	1.2	217.12	634.97	81.38
Mean		19.5	5.1	0.1	0.2	23.1	3.1	300.8	678.7	87.9

^{1/} % Dry Weight Basis^{2/} % Fresh Weight Basis^{3/} % Fresh Weight Basis (mg/100g)^{4/} % Fresh Weight Basis (mg/100g), using Lenepe as check with reading of 43.7

^{5/}The assay used at Texas A&M was based on use of two types of free radicals [DPPH assay (Brand-Williams, et al. 1995, Lebensm. Wiss. Technol. 28:25-30) and ABTS assay (Awika et al., 2003, J. Agric. Food Chem. 51: 6657-6662) to evaluate antioxidant activity, and the Folin-Ciocalteu method (Singleton et. al, Methods Enzymol. 1999, 299, 152-178) to determine total phenolic content. Antioxidants soluble in methanol were extracted and allowed to react with the stable radicals, 2,2,-Diphenyl-1-picrylhydrazyl (DPPH) and 2,2'-azinobis (3-ethylbenzothiazoline-6-sulfonic acid) diammonium salt (ABTS). This provided a rapid evaluation of the antioxidant properties of the potato extracts based on absorbance.

Table 22. Entry Location Comments

Entry	Clone/Variety	Aberdeen, ID	Klamath Falls, OR
Red/White Flesh			
1	Dk Red Norland	big, scab, non-uniform	irregular, large, light red, fair
2	Red LaSoda	big, deep eyes, folded ends	lumpy, large, FBE, ugly
3	ATTX98453-6R	med red, nice, round, brow, skinned, ad stolons	---
4	BTX2332-1R	big, med red, skinned, shattered, ad stolons, flat	---
5	COTX94216-1R	lg round, non-uniform, skinned,	---
6	COTX94218-1R	med red, round, skinnedm ad stolons, sltly flat,	---
7	NDTX4784-7R	round, med red, ad stolons, GC, shatter, scab,	---
Red-Purple/Yellow Flesh			
8	A99326-1PY	med dark purple/yellow flesh, deep end, irrigular	chipper shape, flat, fair
9	AC99329-7PW/Y	white/purple spectical, ad stolons, non-uniform	---
10	AC99330-1P/Y	dark purple, round, uniform, brow, dirty look, ad stolons	---
11	POR01PG45-5	oval, lt purple, dirty look, skinned	some irregular shapes, light purple, nice
12	POR03PG80-2	long, lt purple, non-uniform	large, blocky/baker shape, use?
Red/Red Flesh			
13	PA96RR1-193	small, round, red, deeper eyes, uniform	bronzing, dark skin, ugly
14	POR03PG23-1	very small, red/white, few, oval	cracky rough skin, bronzing, nice color inside/out, uniform
Purple/Purple Flesh			
15	Purple Majesty	small, dk purple, dirty, scab	very rough skin, bronzing, irregular, ugly
16	OR00068-11	oval, dk purple, bad scab, ugly, ad stolons	powdery scab, small, very dark, nice when skin is smooth
Yellow Flesh			
17	Yukon Gold	oval, yellow, scab	CRS, large, smooth, nice
18	A00286-3Y	oval, yellow/pink eyes, non-uniform, ad stolons	ugly pink eyes, irregular shapes, smooth
19	A00293-2Y	small, yellow, scab skinned	nice size, uniform, smooth yellow, nice
20	CO00412-5W/Y	samll, oval, yellow, flat	---
21	CO99045-1W/Y	oblong, yellow,scab, curves	---
22	POR02PG37-2	oval, yellow/pink eyes, non-uniform, scab	smooth, yukon look alike, smooth, nice

Table 23. Entry Location Comments Continued

Entry	Clone/Variety	Springlake, TX
Red/White Flesh		
1	Dk Red Norland	light Skinned, Rhizoctonia, sliver scurf, drop
2	Red LaSoda	deep eyes, nice white flesh, poor internals
3	ATTX98453-6R	Nice, nice flesh, keep, poor skin finish, silver scurf, Rhizoctonia, smooth skin, nice flesh
4	BTX2332-1R	BOT, yield, heavy set, poor internals,
5	COTX94216-1R	Second Growth, Nice shape, zipper eyes, road map, poor skin finish, drop, silver scurf
6	COTX94218-1R	Nice shape, Late, yield
7	NDTX4784-7R	low yield, nice, better rep, Rhizoctonia++,road map, poor skin finish, drop
Red-Purple/Yellow Flesh		
8	A99326-1PY	nice size & shape, yield+, late, oversize+, lenticels, silver scurf+
9	AC99329-7PW/Y	nice purple color, rough, deep eyes, purple white skin
10	AC99330-1P/Y	heavy set, yield+, late, lenticels+, salad??. drop
11	POR01PG45-5	nice+, hollow heart, rough, poor skin finish, drop+
12	POR03PG80-2	nice+, oblong, rough, silver scurf, poor skin finish
Red/Red Flesh		
13	PA96RR1-193	nice shape,light red flesh, silver scurf, poor skin finish, heat sprouts
14	POR03PG23-1	nice red color, Rhizoctonia, yellow and red skin
Purple/Purple Flesh		
15	Purple Majesty	Road Map, Yield +, road map-alligator skin, silver scurf, yield+, small, smooth
16	OR00068-11	yield+, flesh all blue like, silver scurf
Yellow Flesh		
17	Yukon Gold	BOT, small, rough
18	A00286-3Y	second growth, nice internals, drop, heat sprouts+, red splash eyes
19	A00293-2Y	small, nice shape, heat sprouts, drop, pointed
20	CO00412-5W/Y	poor internals, small, russet skin, drop++
21	CO99045-1W/Y	variable color, small, heat sprouts, sticky stolon+, drop+
22	POR02PG37-2	red eyes, nice

Table 24. Entry Location Comments Continued

Entry	Clone/Variety	Othello, WA
Red/White Flesh		
1	Dk Red Norland	Pink, large, deep eyes.
2	Red LaSoda	Deep eyes, rough, some growth cracks.
3	ATTX98453-6R	Red, large, rough, sticky stolons**.
4	BTX2332-1R	Shallow eyes, nice deep red.
5	COTX94216-1R	Dark red, nice, sticky stolons**, medium to small.
6	COTX94218-1R	Nice red color, sticky stolons**, typy.
7	NDTX4784-7R	Dark red, severe growth cracks, discard!
Red-Purple/Yellow Flesh		
8	A99326-1PY	Purple, large, deep eyes, rough.
9	AC99329-7PW/Y	Sticky stolons**, some pointy ends.
10	AC99330-1P/Y	Nice dark purple, smaller, many tubers, standout
11	POR01PG45-5	Small, purple, pointy ends, sticky stolons**.
12	POR03PG80-2	Large, looks like a purple baker, oblong.
Red/Red Flesh		
13	PA96RR1-193	Deep eyes, nice, dark red, sticky stolons**.
14	POR03PG23-1	Neat red and yellow, has some rot issues.
Purple/Purple Flesh		
15	Purple Majesty	Nice size and shape, deep purple.
16	OR00068-11	Purple, nice, uniform size, standout.
Yellow Flesh		
17	Yukon Gold	Large, yellow, a bit rough shaped.
18	A00286-3Y	Smaller, oblong to round, standout.
19	A00293-2Y	Pointy, some nice, small, smooth.
20	CO00412-5W/Y	Nice size and shape, but flaky skin.
21	CO99045-1W/Y	Oblong, yellow, skin not smooth.
22	POR02PG37-2	Nice, typy, looks like a smaller version of Yukon Gold.

** The term "sticky stolons" refers to tubers that stay attached to the plant during harvest. This may not be a problem if plants are vine killed or fully matured prior to harvest, however, it generally indicates late maturation.

Table 25. Summary Means

Entry	Clone/Variety	Year	Yield Summary ¹					Tuber Characteristics		Quality			
			<4 oz.	4-6 oz.	6-10 oz.	>10 oz.	Culls	Total	% 4-10 oz.	Tuber Size oz./tuber	Spec. grav.	Culinary quality ²	Fresh Merit ³
Red/White Flesh													
1	Dk Red Norland	***	59	74	208	108	34	494	58	6.7	1.068	57.7	2.8
2	Red LaSoda	***	39	60	191	148	42	501	54	7.9	1.072	57.0	2.4
3	ATTX98453-6R	1	62	77	152	59	25	381	61	5.8	1.072	56.3	3.0
4	BTX2332-1R	1	57	86	180	110	23	466	58	6.2	1.070	54.1	3.4
5	COTX94216-1R	1	99	83	116	52	16	390	54	4.4	1.072	56.4	3.7
6	COTX94218-1R	1	104	105	145	44	19	436	59	4.6	1.078	56.0	3.2
7	NDTX4784-7R	1	54	80	161	73	28	413	61	6.1	1.072	57.3	3.6
Red-Purple/Yellow Flesh													
8	A99326-1PY	1	63	94	176	110	39	493	55	6.7	1.077	56.2	3.2
9	AC99329-7PW/Y	2	90	103	154	66	19	454	60	5.3	1.082	57.2	3.3
10	AC99330-1P/Y	2	223	95	43	2	3	412	39	3.1	1.076	55.4	3.3
11	POR01PG45-5	2	161	127	124	23	25	479	53	4.2	1.089	57.9	3.2
12	POR03PG80-2	1	35	76	177	119	37	449	59	7.3	1.071	59.0	3.3
Red/Red Flesh													
13	PA96RR1-193	2	237	116	62	5	9	443	39	3.4	1.084	58.3	3.2
14	POR03PG23-1	2	204	67	47	6	10	353	34	3.0	1.071	53.3	3.5
Purple/Purple Flesh													
15	Purple Majesty	***	234	121	92	12	11	492	43	3.7	1.079	57.9	3.1
16	OR00068-11	2	195	133	117	15	8	476	51	4.0	1.090	57.5	3.1
Yellow Flesh													
17	Yukon Gold	***	43	64	144	116	32	405	53	7.2	1.084	56.2	3.4
18	A00286-3Y	2	127	121	181	66	25	532	57	5.0	1.079	56.7	3.3
19	A00293-2Y	1	156	136	118	16	10	451	55	4.2	1.078	58.6	3.1
20	CO00412-5W/Y	1	120	126	110	31	15	427	58	4.4	1.087	59.1	3.3
21	CO99045-1W/Y	2	121	116	149	58	24	491	55	5.2	1.083	55.5	4.0
22	POR02PG37-2	2	148	126	115	18	16	429	55	4.3	1.083	58.9	3.5
			120	99	135	57	21	448	53	5.1	1.078	56.9	3.3

¹Mean weight fractions do not equal total average because some locations do not take measurements for all criteria.

²Higher score = better quality, maximum = 75 total for bake, boil and microwave. Knowles & Fuller, Pullman, WA.

³Scale = 1-5 best

Table 26. 2-Year Summary of Graduating Entries

Entry	Clone/Variety	Yield Summary ¹					Tuber Characteristics		Quality			
		<4 oz.	4-6 oz.	6-10 oz.	>10 oz.	Culls	Total	% 4-10 oz.	Tuber Size oz./tuber	Spec. grav.	Culinary quality ²	Fresh Merit ³
Red/White Flesh												
1	Dk Red Norland	58	88	207	114	36	508	58	6.7	1.070	57.5	2.6
2	Red LaSoda	44	68	180	156	47	515	52	7.6	1.074	57.6	2.2
Red-Purple/Yellow Flesh												
9	AC99329-7PW/Y	94	116	158	61	28	470	60	5.0	1.084	58.4	3.5
10	AC99330-1P/Y	212	118	55	11	14	435	41	3.2	1.076	54.8	3.2
11	POR01PG45-5	147	146	121	28	30	479	54	4.3	1.088	57.5	3.0
Red/Red Flesh												
13	PA96RR1-193	203	147	76	7	17	455	47	3.6	1.086	56.9	3.1
14	POR03PG23-1	180	101	54	7	13	364	41	3.1	1.071	53.4	3.3
Purple/Purple Flesh												
15	Purple Majesty	219	141	88	14	24	493	44	3.6	1.081	56.0	3.0
16	OR00068-11	175	157	118	18	16	486	54	4.0	1.092	56.9	3.0
Yellow Flesh												
17	Yukon Gold	41	68	147	121	35	415	54	7.1	1.086	58.6	3.7
18	A00293-2Y	126	129	113	33	22	429	56	4.6	1.080	58.3	3.0
21	CO99045-1W/Y	118	140	150	62	34	518	56	5.0	1.086	57.6	3.8
22	POR02PG37-2	144	134	119	18	35	451	55	4.2	1.084	58.2	3.4

^{1/}Mean weight fractions do not equal total average because some locations do not take measurements for all criteria.

^{2/} Higher score = better quality, maximum = 75 total for bake, boil and microwave. Knowles & Fuller, Pullman, WA.

^{3/} Scale = 1-5 best