2007 Western Regional

Red/Specialty Trial

2007 Western Regional Red/Specialty Potato Trial

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Description of Clones - 2007 Western Regional Red/Specialty Trial

	Clone/Variety	Parents		Flower	Vine		Tuber	Skin	Flesh	Entered		
		Female	Male	Color	Size	Maturity	Shape	Type	Color	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	CO98012-5R	A79543-4R	AC91844-2	Purple	Medium	Medium	Round	Red	White	CO	CO	1
4	NDA7985-1R	Minn 17922	ND2225-1R	Dk red-purple	Med-small	Early	Oval	Red	White	ID	ID	1
Red/Yellow Flesh												
5	AC97521-1R/Y	SJP/T48YF	A91846-5R	Red-Purple	Large	Medium	Oval	Red	Yellow	CO	OR	2
6	ATTX961014-1R/Y	A90601-2RDY	Mazama	Purple	Medium	Early	Oblong	Red	Yellow	TX	OR/CO	1
7	ATTX98500-2P/Y	P94A2-4Y	Granola	Purple	Large	Late	Round	Purple	Yellow	TX	CO	1
8	CO97232-1R/Y	CO94218-1	VC0967-2	Purple	Medium	Med-Early	Oblong	Red	Yellow	CO	OR	2
9	CO97232-2R/Y	CO94218-1	VC0967-2	Red-Purple	Medium	Medium	Round	Red	Yellow	CO	OR	2
10	CO97233-3R/Y	CO94218-1	VC0967-5	Red-Purple	Medium	Med-Late	Oblong	Red	Yellow	CO	OR	2
11	POR00PG4-1	Granola	NDOP5847-1	Abort	Medium	Med-Late	Oval	Yellow&Red	Yellow DK	OR	OR	1
Red/Red Flesh												
12	CO97222-1R/R	CO94170-1	CO94183-1	Purple	Medium	Medium	Oblong	Red	Red	CO	CO	1
13	CO97226-2R/R	CO94183-1	CO94214-1	White	Med-Large	Early	Round	Red	Red	CO	OR	2
14	POR01PG20-12	PA97B35-2	PA97B29-3	Red-Purple	Medium	Medium	Oblong	Red	Red	WA/OR	OR	3
15	POR01PG22-1	PA97B23-2	Red bulk	Red -Purple	Medium	Medium	finglerling	Red	Red	WA/OR	OR	2
16	POR02PG5-1	Achirana	POR00PG2-17	Red-purple	Large	Late	Round	Red/Mottled	Red/ W	OR	OR	1
Purple/Purple Flesh												
17	All Blue	?	?	Blue	Med-large	Med-late	Long	Dk Blue	Purple	Check	OR	***
18	CO97215-2P/P	CO94163-1	CO94183-1	Purple	Large	Medium	Oval	Purple	Purple	CO	CO	1
19	CO97227-2P/PW	CO94183-1	CO94215-1	Purple	Large	Medium	Oblong	Purple	Pur/Wh	CO	CO	1
20	POR01PG16-1	NDOP5847-1	Red bulk	Light Blue	medium	medium	finglerling	Purple	Purple	OR/WA	OR	2
Yellow Flesh												
21	Yukon Gold	Norgleam	W5279-4	Pink	Med	Early	Oval	White	Yellow	Check	OR	***
22	A96510-4Y	PA92A17-6	A91194-4	Red-purple	Med-large	Medium	Oblong	Lt Russet	Yellow	ID	OR	2
23	POR02PG26-5	PA99P11-2	Pig420	Purple	Medium	Medium	Oval	Ylw w/red eyes	Yellow	OR	OR	1
24	POR02PG37-2	PA99P35-1	Rose Gold	Red-purple	Med-small	Med-early	Oval	Ylw w/red eyes	Yellow	OR	OR	1

Cultural Management

Trial Information		**Trial Chemical Applications**		
		Herbicides	Insecticides	Fungicides
Trial Location	Tulelake, CA	Sencor		Bravo
Cooperators	Carlson, Kirby	Matrix		Dithane
Irrigation	Solid Set			Quadris
Fertilizer	238-0-0			Maxim
Planting date	May 15, 2007			
Vine kill date	September 10, 2007			
Vine kill method	chemical			
Harvest date	October 1, 2007			

Trial Information		**Trial Chemical Applications**		
		Herbicides	Insecticides	Fungicides
Trial Location	San Luis Valley, CO	Dual Magnum	Leverage 2.7	Bravo WS
Cooperators	Holm, Goktepe, Essah		Actara	Quadris
Irrigation	Pivot			
Fertilizer	120-60-40-25S-2.5Zn			
Planting date	May 10, 2007			
Vine kill date	August 31, 2007			
Vine kill method	Sulfuric Acid			
Harvest date	September 25, 2007			

Trial Information		**Trial Chemical Applications**		
		Herbicides	Insecticides	Fungicides
Trial Location	Aberdeen, ID			
Cooperators	Stark, Novy, Whitworth, Bain, Chappell			
Irrigation	Sprinkler	Eptam	Admire	Dithane F-45
Fertilizer	235-105-50	Sencor		Quadris Opti
Planting date	April 30, 2007	Matrix		
Vine kill date	August 14, 2007			
Vine kill method	vine beat			
Harvest date	August 28, 2007			
Comments	Hot summer daytime temperatures more than normal and starting earlier in season Frost May 25 frosted 30 to 50% of leaves burned crispy			

Trial Information **Trial Chemical Applications**

		Herbicides	Insecticides	Fungicides
Trial Location	Corvallis, OR	Matrix	Platinum	Bravo
Cooperators	Vales, Yilma	Prowl	Provado	Curzate
Irrigation	Solid Set			Dithane
Fertilizer	75-75-75-50S			Quadris
Planting date	April 22, 2007			
Vine kill date	September 10, 2007			
Vine kill method	Rely			
Harvest date	September 25, 2007			

Trial Information **Trial Chemical Applications**

		Herbicides	Insecticides	Fungicides
Trial Location	Hermiston, OR	Vapam	Admire	Maxim 4FS
Cooperators	Hane, Leroux	Matrix	Mocap	Ridomil Gold
Irrigation	Center Pivot	Eptam	Monitor	Quadris
Fertilizer	235-80-0-40S		Oberon	Bravo
Planting date	March 29, 2007			Dithane
Vine kill date	July 19, 2007			Omega
Vine kill method	Enquik			
Harvest date	8/6/07-8/7/07			
Comments	Generally a good production year.			

Trial Information **Trial Chemical Applications**

		Herbicides	Insecticides	Fungicides
Trial Location	Malheur Exp. Station	Duel	Gaucho	Tops MZ
Cooperators	Shock, Eldredge, Feibert	Prowl		Bravo Ridomil Gold
Irrigation	sprinkler	Matrix		Dithane + Topsin M
Fertilizer	185-76-1-206S-Micros	Eptam		Tanos
Planting date	April 26, 2007			Sulfur + NPK Foliar
Vine kill date	September 18, 2007			
Vine kill method	mechanical, flail			
Harvest date	October 2, 2007			
Comments	The field had not grown potatoes in 11 years.			

Trial Information

		Herbicides	Insecticides	Fungicides
Trial Location	Klamath Falls, OR	Dual Magnum	Admire Pro	Tops MZ
Cooperators	Charlton, Culp	Prowl H2O	Leverage	Quadris
Irrigation	Sprinkler	Matrix MZ		Ridomil Gold Bravo SC
Fertilizer	165-80-100-144S			
Planting date	May 23, 2007			
Vine kill date	September 10, 2007			
Vine kill method	Reglone			
Harvest date	October 10, 2007			
			Fumigation	
			Telone	
			Vapam	

Trial Information

		Herbicides	Insecticides	Fungicides
Trial Location	Springlake, Texas	Roundup	Dimethoate	Tops MZ Gaucho
Cooperators	Miller, Koym, Scheuring	Dual	Oberon 2SC	Quadris
Irrigation	Center Pivot	Matrix	Venom	
Fertilizer	200-0-17	Sencor		
Planting date	April 1, 2007	Select		
Vine kill date	July 11, 2007			
Vine kill method	Mechanical			
Harvest date	July 24, 2007			
Comments	This trial was subjected to higher than normal precipitation in the fourth week of May and the first week of August. Temperatures were lower than normal for the entire growing season.			

Trial Information

		Herbicides	Insecticides	Fungicides
Trial Location	Granger, WA			
Cooperators	Pavek, Knowles, Holden, Fuller, Bouchey			
Irrigation	Furrow Irrigation	Trifluralin	Asana	
Fertilizer	76-60-20-10S	Prowl		
Planting date	March 21, 2007			
Vine kill date	July 20, 2007			
Vine kill method	Vine Flail			
Harvest date	July 30, 2007			

Table 1. Percent Stand and Stems/Hill

Clone/Variety	Percent Stand									Stems/hill				
	CA	CO	ID	OR			TX	WA		CO	ID	TX	WA	
	TUL	SLV	AB	COR	HRM	KLM	SPL	GRAN	Mean	SLV	AB	SPL	GRAN	Mean
Red/White Flesh														
1 Dk Red Norland	94	95	99	100	100	99	96	97	**98**	4.7	3.6	2.3	2.0	**3.1**
2 Red LaSoda	88	100	100	100	99	100	100	95	**98**	3.4	2.4	2.4	1.8	**2.5**
3 CO98012-5R	94	100	96	100	100	99	100	100	**99**	2.9	3.4	2.5	1.9	**2.7**
4 NDA7985-1R	94	---	100	---	99	100	89	99	**97**	---	2.2	2.1	1.7	**2.0**
Red/Yellow Flesh														
5 AC97521-1R/Y	85	96	98	100	100	99	100	98	**97**	4.0	3.5	2.3	2.4	**3.0**
6 ATTX961014-1R/Y	88	97	97	100	100	100	96	96	**97**	3.6	3.5	2.3	2.9	**3.1**
7 ATTX98500-2P/Y	89	99	98	100	100	98	100	100	**98**	3.4	3.1	2.2	2.0	**2.7**
8 CO97232-1R/Y	88	90	98	100	99	100	98	97	**96**	3.1	3.0	2.1	2.3	**2.6**
9 CO97232-2R/Y	92	99	100	100	100	100	93	97	**98**	3.7	2.9	2.5	2.2	**2.8**
10 CO97233-3R/Y	67	95	99	100	98	96	86	96	**92**	3.7	3.2	2.5	1.7	**2.8**
11 POR00PG4-1	94	---	98	100	100	99	100	100	**99**	---	2.4	2.2	1.9	**2.2**
Red/Red Flesh														
12 CO97222-1R/R	86	97	99	100	100	98	98	96	**97**	3.5	3.8	2.3	2.4	**3.0**
13 CO97226-2R/R	96	99	96	100	100	99	100	100	**99**	3.6	3.7	2.2	2.2	**2.9**
14 POR01PG20-12	96	100	94	100	100	100	100	100	**99**	3.5	2.3	2.3	2.0	**2.5**
15 POR01PG22-1	97	100	98	100	100	99	98	99	**99**	3.8	5.1	2.8	2.1	**3.4**
16 POR02PG5-1	87	96	97	100	98	100	95	98	**96**	3.3	2.6	2.0	1.6	**2.4**
Purple/Purple Flesh														
17 All Blue	99	100	98	100	100	100	96	99	**99**	4.9	3.9	2.3	2.0	**3.3**
18 CO97215-2P/P	75	96	99	100	95	99	99	95	**95**	3.3	3.3	2.5	2.7	**3.0**
19 CO97227-2P/PW	94	100	100	100	100	100	100	100	**99**	5.0	5.7	3.1	3.3	**4.3**
20 POR01PG16-1	97	---	94	100	99	96	99	100	**98**	---	5.1	2.4	2.8	**3.4**
Yellow Flesh														
21 Yukon Gold	84	100	99	100	99	99	87	94	**95**	3.2	1.6	1.7	1.4	**2.0**
22 A96510-4Y	88	99	95	100	100	100	100	98	**97**	2.6	1.7	2.3	1.6	**2.1**
23 POR02PG26-5	91	---	97	100	100	99	100	98	**98**	---	3.3	2.1	2.1	**2.5**
24 POR02PG37-2	91	---	99	100	100	98	98	98	**98**	---	5.9	3.0	2.9	**3.9**
Mean	**90**	**98**	**98**	**100**	**99**	**99**	**97**	**98**	**97**	**3.6**	**3.4**	**2.4**	**2.2**	**2.8**

Table 2. Vine Size and Vine Maturity

	Vine Size (1-5 large)							Vine Maturity (1-5 late)							
	CO	ID	OR		TX	WA		CA	CO	ID	OR		TX	WA	
Clone/Variety	SLV	AB	COR	KLM	SPL	GRAN	Mean	TUL	SLV	AB	COR	KLM	SPL	GRAN	Mean
Red/White Flesh															
1 Dk Red Norland	2.3	1.8	2.8	4.3	3.9	3.0	**3.0**	1.8	1.0	2.3	2.3	2.1	3.0	4.5	**2.4**
2 Red LaSoda	3.5	1.5	3.2	3.5	3.9	3.0	**3.1**	1.5	2.3	2.0	3.0	2.3	3.5	4.5	**2.7**
3 CO98012-5R	3.0	1.5	3.0	4.8	4.1	5.0	**3.6**	1.8	1.5	2.3	3.0	2.3	3.6	5.0	**2.8**
4 NDA7985-1R	---	2.5	---	4.0	3.2	3.0	**3.2**	1.3	---	3.0	---	2.9	2.9	5.0	**3.0**
Red/Yellow Flesh															
5 AC97521-1R/Y	3.8	3.0	5.0	5.0	4.4	5.0	**4.4**	2.8	2.5	2.5	3.0	2.8	4.9	4.5	**3.3**
6 ATTX961014-1R/Y	2.5	1.3	3.2	3.5	3.6	3.0	**2.8**	1.0	1.0	1.8	2.1	2.1	3.0	4.0	**2.1**
7 ATTX98500-2P/Y	4.8	3.0	5.0	4.5	4.6	5.0	**4.5**	3.8	3.5	3.5	4.5	3.3	5.0	5.0	**4.1**
8 CO97232-1R/Y	2.3	1.0	3.0	4.3	3.3	3.0	**2.8**	1.0	1.5	1.3	3.0	1.9	2.6	4.5	**2.3**
9 CO97232-2R/Y	2.5	1.0	3.2	3.5	3.5	2.0	**2.6**	1.0	2.0	1.5	3.0	1.6	3.1	4.5	**2.4**
10 CO97233-3R/Y	3.0	3.3	3.0	3.8	3.6	4.0	**3.4**	3.3	2.8	3.3	3.0	3.6	4.3	5.0	**3.6**
11 POR00PG4-1	---	1.8	3.0	4.0	3.4	3.0	**3.0**	1.3	---	2.8	4.0	1.9	4.1	4.5	**3.1**
Red/Red Flesh															
12 CO97222-1R/R	3.0	1.3	4.0	3.5	3.7	3.0	**3.1**	2.8	2.0	2.5	2.3	2.8	3.4	4.5	**2.9**
13 CO97226-2R/R	3.0	1.8	4.0	3.8	3.8	3.0	**3.2**	3.0	2.0	2.3	2.5	3.1	3.9	4.5	**3.1**
14 POR01PG20-12	4.0	2.8	3.0	5.0	3.7	4.0	**3.7**	3.0	3.3	3.8	3.0	3.6	4.9	5.0	**3.8**
15 POR01PG22-1	4.5	2.0	3.5	5.0	3.4	5.0	**3.9**	2.3	3.0	3.3	3.5	3.6	5.0	5.0	**3.7**
16 POR02PG5-1	4.5	4.0	4.0	5.0	4.1	5.0	**4.4**	5.0	4.0	4.0	4.5	4.6	5.0	5.0	**4.6**
Purple/Purple Flesh															
17 All Blue	4.5	2.0	4.0	5.0	4.6	3.0	**3.8**	2.5	3.0	3.0	4.0	3.1	4.3	4.5	**3.5**
18 CO97215-2P/P	3.8	2.3	4.0	4.5	4.2	4.0	**3.8**	2.8	3.0	3.0	3.0	3.5	4.8	4.5	**3.5**
19 CO97227-2P/PW	3.8	2.3	4.0	4.5	4.7	4.0	**3.9**	2.3	2.8	3.8	3.0	2.4	4.6	4.5	**3.3**
20 POR01PG16-1	---	1.0	4.0	3.0	3.2	2.0	**2.6**	1.5	---	2.0	3.0	2.9	3.0	4.5	**2.8**
Yellow Flesh															
21 Yukon Gold	3.0	1.5	3.2	4.8	3.6	3.0	**3.2**	1.0	1.5	1.8	2.6	2.0	3.3	2.5	**2.1**
22 A96510-4Y	4.3	2.8	4.5	5.0	4.5	5.0	**4.3**	3.8	4.0	3.0	4.0	4.1	5.0	5.0	**4.1**
23 POR02PG26-5	---	1.3	3.0	3.8	3.9	2.0	**2.8**	1.0	---	2.5	3.0	2.4	4.1	4.0	**2.8**
24 POR02PG37-2	---	1.3	2.5	3.5	4.2	1.0	**2.5**	1.0	---	2.0	2.3	1.1	3.2	4.0	**2.3**
Mean	**3.5**	**2.0**	**3.6**	**4.2**	**3.9**	**3.5**	**3.4**	**2.2**	**2.4**	**2.6**	**3.1**	**2.7**	**3.9**	**4.5**	**3.1**

Table 3. Total Yield

Clone/Variety	Total Yield (cwt/A)										
	CA	CO[1]	ID	OR				TX	WA		
	TUL	SLV	AB	COR	HRM	KLM	MAL	SPL	GRAN	Mean	Rank
Red/White Flesh											
1 Dk Red Norland	472	372	513	666	702	566	638	384	528	**538**	**2**
2 Red LaSoda	425	537	505	564	635	579	579	448	582	**539**	**1**
3 CO98012-5R	357	437	392	482	586	417	291	377	474	**424**	**4**
4 NDA7985-1R	444	---	463	---	631	668	---	328	544	**513**	**3**
Red/Yellow Flesh											
5 AC97521-1R/Y	387	420	304	614	686	624	612	407	490	**505**	**2**
6 ATTX961014-1R/Y	374	349	483	512	743	639	552	411	543	**512**	**1**
7 ATTX98500-2P/Y	449	479	353	616	594	574	667	249	415	**488**	**3**
8 CO97232-1R/Y	335	352	406	433	544	495	360	363	523	**423**	**6**
9 CO97232-2R/Y	391	425	378	490	536	499	364	415	549	**450**	**5**
10 CO97233-3R/Y	395	409	413	545	500	553	423	404	454	**455**	**4**
11 POR00PG4-1	284	---	263	364	533	380	256	351	438	**359**	**7**
Red/Red Flesh											
12 CO97222-1R/R	381	359	440	503	515	442	237	365	463	**412**	**3**
13 CO97226-2R/R	364	338	389	381	381	329	333	323	318	**351**	**4**
14 POR01PG20-12	414	454	396	598	429	463	486	327	414	**442**	**2**
15 POR01PG22-1	254	403	285	508	385	477	229	199	279	**335**	**5**
16 POR02PG5-1	516	554	442	748	723	662	810	433	500	**599**	**1**
Purple/Purple Flesh											
17 All Blue	424	438	317	500	547	492	225	331	314	**399**	**2**
18 CO97215-2P/P	304	373	363	513	443	359	302	315	311	**365**	**3**
19 CO97227-2P/PW	330	385	435	540	479	518	244	352	408	**410**	**1**
20 POR01PG16-1	325	---	360	383	346	317	109	241	462	**318**	**4**
Yellow Flesh											
21 Yukon Gold	350	383	354	517	542	481	414	370	476	**432**	**4**
22 A96510-4Y	388	435	337	606	558	621	770	381	354	**494**	**1**
23 POR02PG26-5	351	---	468	595	630	590	518	318	472	**493**	**2**
24 POR02PG37-2	349	---	393	526	640	474	394	472	492	**467**	**3**
Mean	**378**	**416**	**394**	**531**	**555**	**509**	**427**	**357**	**450**	**447**	

[1]Entry 15 - This fingerling type was graded based on tuber length (size)

Table 4. Yield and Percent U.S. No. 1s (4-10 oz + > 10 oz)

	Yield and Percent U.S. No. 1s (> 4 oz) (Cwt/A & %)										
	CA	CO[1]	ID	OR				TX	WA		
Clone/Variety	TUL	SLV	AB	COR	HRM	KLM	MAL	SPL	GRAN	Mean	Rank
Red/White Flesh											
1 Dk Red Norland	402	365	471	486	636	507	624	352	415	**473**	**1**
	85	98	92	73	91	90	98	92	79	**88**	**1**
2 Red LaSoda	373	512	384	350	577	385	562	403	541	**454**	**2**
	88	95	76	62	91	66	97	90	93	**84**	**3**
3 CO98012-5R	206	432	145	133	380	304	282	218	318	**269**	**4**
	58	99	37	28	65	73	97	58	67	**65**	**4**
4 NDA7985-1R	397	---	416	---	551	493	---	275	478	**435**	**3**
	89	---	90	---	87	74	---	84	88	**85**	**2**
Red/Yellow Flesh											
5 AC97521-1R/Y	295	319	132	363	474	460	544	277	365	**359**	**3**
	76	76	43	59	69	74	89	68	75	**70**	**5**
6 ATTX961014-1R/Y	222	274	321	320	628	518	509	346	439	**398**	**1**
	59	79	66	63	85	81	92	84	81	**77**	**3**
7 ATTX98500-2P/Y	329	407	236	433	459	440	612	176	331	**380**	**2**
	73	85	67	70	77	77	92	71	80	**77**	**2**
8 CO97232-1R/Y	216	234	270	257	396	316	342	291	403	**303**	**6**
	64	67	67	59	73	64	95	80	77	**72**	**4**
9 CO97232-2R/Y	298	369	292	337	383	398	343	332	419	**352**	**4**
	76	87	77	69	71	80	94	80	76	**79**	**1**
10 CO97233-3R/Y	302	311	315	313	328	259	322	324	320	**310**	**5**
	76	76	76	57	66	47	76	80	70	**69**	**6**
11 POR00PG4-1	169	---	164	138	457	100	246	306	208	**223**	**7**
	60	---	62	38	86	26	96	87	48	**63**	**7**
Red/Red Flesh											
12 CO97222-1R/R	210	218	250	289	326	279	235	224	343	**264**	**3**
	55	61	57	57	63	63	99	61	74	**66**	**3**
13 CO97226-2R/R	171	93	87	125	95	100	309	162	91	**137**	**4**
	47	27	22	33	25	31	93	50	29	**40**	**4**
14 POR01PG20-12	282	323	208	269	274	269	450	236	292	**289**	**2**
	68	71	53	45	64	58	92	72	71	**66**	**2**
15 POR01PG22-1	0	393	44	105	112	35	168	76	93	**114**	**5**
	0	97	15	21	29	7	74	38	34	**35**	**5**
16 POR02PG5-1	413	512	371	572	665	522	784	383	463	**521**	**1**
	80	92	84	76	92	79	97	88	93	**87**	**1**
Purple/Purple Flesh											
17 All Blue	233	245	75	157	306	290	165	208	196	**208**	**2**
	55	56	24	31	56	59	73	63	63	**53**	**2**
18 CO97215-2P/P	186	279	194	250	275	166	279	169	184	**220**	**1**
	61	75	53	49	62	46	93	54	59	**61**	**1**
19 CO97227-2P/PW	140	79	110	163	186	208	193	173	170	**158**	**3**
	42	21	25	30	39	40	79	49	42	**41**	**3**
20 POR01PG16-1	106	---	53	58	153	64	72	188	220	**114**	**4**
	33	---	15	15	44	20	66	78	48	**40**	**4**
Yellow Flesh											
21 Yukon Gold	288	348	274	365	492	390	399	335	434	**369**	**2**
	82	91	77	71	91	81	96	90	91	**86**	**1**
22 A96510-4Y	323	407	282	356	480	395	707	318	324	**399**	**1**
	83	93	84	59	86	64	92	84	91	**82**	**2**
23 POR02PG26-5	193	---	332	359	424	442	487	237	377	**356**	**3**
	55	---	71	60	67	75	94	74	80	**72**	**3**
24 POR02PG37-2	175	---	156	318	441	336	390	335	321	**309**	**4**
	50	---	40	60	69	71	99	71	65	**66**	**4**
Mean	**247**	**322**	**233**	**283**	**396**	**320**	**392**	**264**	**323**	**309**	
	63	**76**	**57**	**52**	**69**	**60**	**90**	**73**	**70**	**68**	

[1]Entry 15 - This fingerling type was graded based on tuber length (size)

Table 5. Yield and Percent U.S. No. 1s (4 oz-10 oz)

	Yield and Percent (4 oz - 10 oz) (Cwt/A & %)										
	CA	CO[1]	ID	OR				TX	WA		
Clone/Variety	TUL	SLV	AB	COR	HRM	KLM	MAL	SPL	GRAN	Mean	Rank
Red/White Flesh											
1 Dk Red Norland	270	317	335	269	372	358	358	273	224	**308**	**1**
	57	85	65	40	53	63	56	71	42	**59**	**2**
2 Red LaSoda	240	363	258	183	291	255	239	277	249	**262**	**3**
	56	68	51	32	46	44	41	62	43	**49**	**4**
3 CO98012-5R	197	416	143	94	357	288	276	218	286	**253**	**4**
	55	95	36	20	61	69	95	58	60	**61**	**1**
4 NDA7985-1R	228	---	213	---	431	291	---	242	306	**285**	**2**
	51	---	46	---	68	44	---	74	56	**57**	**3**
Red/Yellow Flesh											
5 AC97521-1R/Y	259	297	129	238	453	352	512	277	278	**310**	**2**
	67	71	42	39	66	56	84	68	57	**61**	**5**
6 ATTX961014-1R/Y	211	252	295	233	513	392	366	270	321	**317**	**1**
	56	72	61	46	69	61	66	66	59	**62**	**3**
7 ATTX98500-2P/Y	289	305	192	311	408	354	493	166	206	**303**	**3**
	64	64	54	50	69	62	74	67	50	**62**	**4**
8 CO97232-1R/Y	196	224	251	194	387	283	305	288	338	**274**	**5**
	59	64	62	45	71	57	85	79	65	**65**	**2**
9 CO97232-2R/Y	257	283	249	246	355	333	289	307	294	**290**	**4**
	66	66	66	50	66	67	80	74	53	**65**	**1**
10 CO97233-3R/Y	218	269	258	177	306	200	241	304	251	**247**	**6**
	55	66	62	32	61	36	57	75	55	**56**	**6**
11 POR00PG4-1	149	---	138	86	359	82	181	215	133	**168**	**7**
	52	---	52	24	67	22	71	61	30	**47**	**7**
Red/Red Flesh											
12 CO97222-1R/R	198	201	218	224	303	241	214	206	272	**231**	**3**
	52	56	50	45	59	54	90	56	59	**58**	**1**
13 CO97226-2R/R	171	91	87	106	95	100	283	162	91	**132**	**4**
	47	27	22	28	25	31	85	50	29	**38**	**4**
14 POR01PG20-12	241	290	168	154	256	217	383	226	261	**244**	**2**
	58	64	42	26	60	47	79	69	63	**56**	**2**
15 POR01PG22-1	0	310	44	86	112	35	164	76	89	**102**	**5**
	0	77	15	17	29	7	72	38	32	**32**	**5**
16 POR02PG5-1	239	336	215	266	302	262	426	252	186	**276**	**1**
	46	61	49	36	42	40	53	58	37	**47**	**3**
Purple/Purple Flesh											
17 All Blue	217	240	73	83	285	262	157	190	169	**186**	**2**
	51	55	23	17	52	53	70	58	54	**48**	**2**
18 CO97215-2P/P	166	221	184	218	268	163	265	165	165	**202**	**1**
	55	59	51	42	60	45	88	53	53	**56**	**1**
19 CO97227-2P/PW	139	79	109	138	186	199	189	173	168	**153**	**3**
	42	21	25	26	39	38	77	49	41	**40**	**3**
20 POR01PG16-1	106	---	53	36	151	64	72	188	208	**110**	**4**
	33	---	15	9	44	20	66	78	45	**39**	**4**
Yellow Flesh											
21 Yukon Gold	203	234	206	208	295	230	226	203	223	**225**	**3**
	58	61	58	40	54	48	55	55	47	**53**	**3**
22 A96510-4Y	156	210	109	159	269	178	247	205	183	**191**	**4**
	40	48	32	26	48	29	32	54	52	**40**	**4**
23 POR02PG26-5	182	---	280	270	384	364	382	224	271	**295**	**1**
	52	---	60	45	61	62	74	70	57	**60**	**1**
24 POR02PG37-2	165	---	152	262	418	317	357	317	272	**282**	**2**
	47	---	39	50	65	67	91	67	55	**60**	**2**
Mean	**196**	**260**	**182**	**184**	**315**	**243**	**288**	**226**	**227**	235	
	51	**62**	**45**	**34**	**56**	**47**	**71**	**63**	**50**	53	

[1]Entry 15 - This fingerling type was graded based on tuber length (size)

Table 6. Yield and Percent U.S. No. 1s >10 oz

	Yield and Percent U.S. No. 1s >10 oz (Cwt/A & %)										
	CA	CO[1]	ID	OR				TX	WA		
Clone/Variety	TUL	SLV	AB	COR	HRM	KLM	MAL	SPL	GRAN	Mean	Rank
Red/White Flesh											
1 Dk Red Norland	132	47	136	217	264	150	266	80	191	**165**	**2**
	28	13	27	33	38	26	42	21	36	**29**	**2**
2 Red LaSoda	133	149	126	167	286	130	323	126	292	**192**	**1**
	31	28	25	30	45	22	56	28	50	**35**	**1**
3 CO98012-5R	9	16	2	39	23	15	6	0	32	**16**	**4**
	3	4	1	8	4	4	2	0	7	**4**	**4**
4 NDA7985-1R	169	---	203	---	120	202	---	33	173	**150**	**3**
	38	---	44	---	19	30	---	10	32	**29**	**3**
Red/Yellow Flesh											
5 AC97521-1R/Y	36	22	3	125	21	108	31	0	88	**48**	**6**
	9	5	1	20	3	17	5	0	18	**9**	**6**
6 ATTX961014-1R/Y	11	22	26	87	115	126	143	76	119	**81**	**1**
	3	6	5	17	15	20	26	19	22	**15**	**1**
7 ATTX98500-2P/Y	40	102	44	122	51	86	119	10	124	**78**	**2**
	9	21	12	20	9	15	18	4	30	**15**	**3**
8 CO97232-1R/Y	20	10	19	63	9	33	37	3	65	**29**	**7**
	6	3	5	15	2	7	10	1	12	**7**	**7**
9 CO97232-2R/Y	41	86	43	91	28	64	54	25	126	**62**	**4**
	10	20	11	19	5	13	15	6	23	**14**	**5**
10 CO97233-3R/Y	84	42	57	136	22	59	81	21	69	**63**	**3**
	21	10	14	25	4	11	19	5	15	**14**	**4**
11 POR00PG4-1	20	---	26	52	98	18	65	92	76	**56**	**5**
	7	---	10	14	18	5	25	26	17	**15**	**2**
Red/Red Flesh											
12 CO97222-1R/R	12	18	32	65	23	38	21	18	71	**33**	**3**
	3	5	7	13	4	8	9	5	15	**8**	**3**
13 CO97226-2R/R	0	1	0	19	0	0	26	0	0	**5**	**5**
	0	0	0	5	0	0	8	0	0	**1**	**4**
14 POR01PG20-12	41	32	40	115	18	51	66	10	31	**45**	**2**
	10	7	10	19	4	11	14	3	7	**10**	**2**
15 POR01PG22-1	0	83	0	19	0	0	5	0	4	**12**	**4**
	0	21	0	4	0	0	2	0	1	**3**	**5**
16 POR02PG5-1	174	176	156	306	363	260	358	131	277	**245**	**1**
	34	32	35	41	50	39	44	30	55	**40**	**1**
Purple/Purple Flesh											
17 All Blue	16	4	2	74	21	28	8	17	27	**22**	**1**
	4	1	1	15	4	6	3	5	9	**5**	**1**
18 CO97215-2P/P	20	58	10	32	7	3	15	3	19	**19**	**2**
	7	15	3	6	2	1	5	1	6	**5**	**2**
19 CO97227-2P/PW	1	0	1	25	0	10	4	0	2	**5**	**3**
	0	0	0	5	0	2	2	0	1	**1**	**3**
20 POR01PG16-1	0	---	0	22	2	0	0	0	12	**4**	**4**
	0	---	0	6	1	0	0	0	3	**1**	**4**
Yellow Flesh											
21 Yukon Gold	85	114	68	157	197	160	173	133	211	**144**	**2**
	24	30	19	30	36	33	42	36	44	**33**	**2**
22 A96510-4Y	167	197	173	197	211	217	460	113	141	**208**	**1**
	43	45	51	33	38	35	60	30	40	**42**	**1**
23 POR02PG26-5	11	---	52	89	40	78	105	13	106	**62**	**3**
	3	---	11	15	6	13	20	4	22	**12**	**3**
24 POR02PG37-2	10	---	4	56	23	20	33	18	49	**27**	**4**
	3	---	1	11	4	4	8	4	10	**6**	**4**
Mean	**51**	**62**	**51**	**99**	**81**	**77**	**104**	**38**	**96**	**73**	
	12	**14**	**12**	**17**	**13**	**13**	**19**	**10**	**20**	**15**	

[1]Entry 15 - This fingerling type was graded based on tuber length (size)

Table 7. Yield and Percent U.S. No. 1s 6-10 oz

	Yield and Percent U.S. No. 1s 6-10 oz (Cwt/A & %)									
	CA	ID	OR				TX	WA		
Clone/Variety	TUL	AB	COR	HRM	KLM	MAL	SPL	GRAN	Mean	Rank
Red/White Flesh										
1 Dk Red Norland	181	268	142	257	209	282	170	156	**208**	**1**
	38	52	21	37	37	44	44	29	**38**	**1**
2 Red LaSoda	172	197	164	209	178	192	140	195	**181**	**3**
	40	39	29	33	31	33	31	34	**34**	**3**
3 CO98012-5R	70	39	15	164	105	107	50	130	**85**	**4**
	20	10	3	28	25	37	13	27	**20**	**4**
4 NDA7985-1R	166	172	---	272	199	---	110	221	**190**	**2**
	37	37	---	43	30	---	33	41	**37**	**2**
Red/Yellow Flesh										
5 AC97521-1R/Y	145	54	184	195	188	251	72	166	**157**	**4**
	37	18	30	28	30	41	18	34	**30**	**6**
6 ATTX961014-1R/Y	87	152	174	314	230	252	140	196	**193**	**1**
	23	31	34	42	36	46	34	36	**35**	**3**
7 ATTX98500-2P/Y	155	133	232	221	190	343	79	127	**185**	**2**
	35	38	38	37	33	51	32	31	**37**	**1**
8 CO97232-1R/Y	91	108	128	171	111	174	71	195	**131**	**6**
	27	27	30	31	22	48	20	37	**30**	**4**
9 CO97232-2R/Y	140	158	157	190	177	180	93	187	**160**	**3**
	36	42	32	35	35	50	22	34	**36**	**2**
10 CO97233-3R/Y	136	151	128	160	109	146	69	176	**134**	**5**
	34	37	23	32	20	35	17	39	**30**	**5**
11 POR00PG4-1	78	95	49	247	53	112	110	100	**105**	**7**
	27	36	13	46	14	44	31	23	**29**	**7**
Red/Red Flesh										
12 CO97222-1R/R	99	126	162	131	112	101	68	173	**122**	**3**
	26	29	32	25	25	43	19	37	**30**	**2**
13 CO97226-2R/R	46	13	84	2	17	144	9	14	**41**	**4**
	13	3	22	1	5	43	3	4	**12**	**4**
14 POR01PG20-12	147	85	106	116	132	223	60	147	**127**	**2**
	36	21	18	27	28	46	18	36	**29**	**3**
15 POR01PG22-1	0	8	64	22	6	50	0	20	**21**	**5**
	0	3	13	6	1	22	0	7	**6**	**5**
16 POR02PG5-1	168	163	217	221	196	333	132	141	**196**	**1**
	33	37	29	31	30	41	30	28	**32**	**1**
Purple/Purple Flesh										
17 All Blue	105	29	72	117	117	37	54	92	**78**	**2**
	25	9	14	21	24	17	16	29	**19**	**2**
18 CO97215-2P/P	88	90	142	100	41	129	28	67	**86**	**1**
	29	25	28	23	12	43	9	22	**24**	**1**
19 CO97227-2P/PW	42	34	101	20	72	73	28	46	**52**	**3**
	13	8	19	4	14	30	8	11	**13**	**3**
20 POR01PG16-1	31	13	23	36	12	12	55	76	**32**	**4**
	10	4	6	10	4	11	23	17	**10**	**4**
Yellow Flesh										
21 Yukon Gold	134	133	110	206	138	169	91	167	**144**	**2**
	38	38	21	38	29	41	25	35	**33**	**1**
22 A96510-4Y	113	79	124	196	141	198	104	143	**137**	**3**
	29	23	20	35	23	26	27	40	**28**	**3**
23 POR02PG26-5	64	154	192	170	179	258	37	191	**156**	**1**
	18	33	32	27	30	50	12	40	**30**	**2**
24 POR02PG37-2	57	48	228	179	130	188	83	138	**131**	**4**
	16	12	43	28	27	48	18	28	**28**	**4**
Mean	**105**	**104**	**130**	**163**	**127**	**172**	**77**	**136**	**127**	
	27	**25**	**24**	**28**	**24**	**39**	**21**	**29**	**27**	

Table 8. Yield and Percent U.S. No. 1s 4-6 oz

	Yield and Percent U.S. No. 1s 4-6 oz (Cwt/A & %)									
	CA	ID	OR				TX	WA		
Clone/Variety	TUL	AB	COR	HRM	KLM	MAL	SPL	GRAN	Mean	Rank
Red/White Flesh										
1 Dk Red Norland	89	67	127	115	148	76	103	68	**99**	**2**
	19	13	19	16	26	12	27	13	**18**	**3**
2 Red LaSoda	68	61	19	82	78	46	138	54	**68**	**4**
	16	12	3	13	13	8	31	9	**13**	**4**
3 CO98012-5R	127	104	79	193	183	169	167	157	**147**	**1**
	36	27	16	33	44	58	44	33	**36**	**1**
4 NDA7985-1R	62	41	---	159	92	---	133	85	**95**	**3**
	14	9	---	25	14	---	40	16	**20**	**2**
Red/Yellow Flesh										
5 AC97521-1R/Y	114	75	54	258	164	261	205	112	**155**	**1**
	29	25	9	38	26	43	50	23	**30**	**2**
6 ATTX961014-1R/Y	124	143	59	199	162	114	130	125	**132**	**3**
	33	30	12	27	25	21	32	23	**25**	**4**
7 ATTX98500-2P/Y	134	59	79	187	164	149	87	79	**117**	**5**
	30	17	13	31	29	22	35	19	**24**	**6**
8 CO97232-1R/Y	105	143	66	216	172	131	217	143	**149**	**2**
	31	35	15	40	35	37	60	27	**35**	**1**
9 CO97232-2R/Y	117	91	89	165	156	109	214	107	**131**	**4**
	30	24	18	31	31	30	52	19	**29**	**3**
10 CO97233-3R/Y	82	107	49	146	91	95	235	75	**110**	**6**
	21	26	9	29	16	22	58	17	**25**	**5**
11 POR00PG4-1	71	43	37	112	29	69	105	33	**62**	**7**
	25	16	10	21	8	27	30	7	**18**	**7**
Red/Red Flesh										
12 CO97222-1R/R	99	92	62	172	129	113	138	99	**113**	**1**
	26	21	12	33	29	47	38	21	**29**	**1**
13 CO97226-2R/R	125	74	22	93	83	139	154	77	**96**	**3**
	34	19	6	24	25	42	48	24	**28**	**2**
14 POR01PG20-12	94	83	48	140	86	161	166	114	**111**	**2**
	23	21	8	33	19	33	51	28	**27**	**3**
15 POR01PG22-1	0	36	22	90	29	114	76	69	**55**	**5**
	0	13	4	23	6	50	38	25	**20**	**4**
16 POR02PG5-1	71	52	49	81	66	93	120	45	**72**	**4**
	14	12	7	11	10	12	28	9	**13**	**5**
Purple/Purple Flesh										
17 All Blue	112	44	11	168	145	120	136	77	**102**	**3**
	26	14	2	31	30	53	41	25	**28**	**4**
18 CO97215-2P/P	78	94	76	168	121	135	137	97	**113**	**1**
	26	26	15	38	34	45	44	31	**32**	**1**
19 CO97227-2P/PW	97	75	37	166	127	115	145	122	**110**	**2**
	29	17	7	35	24	47	41	30	**29**	**2**
20 POR01PG16-1	75	40	13	115	52	60	133	132	**77**	**4**
	23	11	3	33	16	55	55	29	**28**	**3**
Yellow Flesh										
21 Yukon Gold	69	73	98	89	92	56	112	56	**81**	**3**
	20	21	19	16	19	14	30	12	**19**	**3**
22 A96510-4Y	43	30	35	73	37	49	101	39	**51**	**4**
	11	9	6	13	6	6	27	11	**11**	**4**
23 POR02PG26-5	118	126	78	214	185	124	187	80	**139**	**2**
	34	27	13	34	31	24	59	17	**30**	**2**
24 POR02PG37-2	108	104	34	239	187	169	234	134	**151**	**1**
	31	26	6	37	39	43	50	27	**33**	**1**
Mean	**91**	**77**	**54**	**152**	**116**	**116**	**149**	**91**	**106**	
	24	**20**	**10**	**28**	**23**	**33**	**42**	**21**	**25**	

Table 9. Yield and Percent < 4 oz

	Yield and Percent < 4 oz (Cwt/A & %)									
	CA	CO[1]	ID	OR			TX	WA		
Clone/Variety	TUL	SLV	AB	COR	HRM	KLM	SPL	GRAN	Mean	Rank
Red/White Flesh										
1 Dk Red Norland	56	56	33	59	49	24	31	49	**45**	**2**
	12	15	6	9	7	4	8	9	**9**	**3**
2 Red LaSoda	32	40	46	46	55	20	44	29	**39**	**4**
	8	7	9	8	9	3	10	5	**7**	**4**
3 CO98012-5R	138	66	247	105	183	97	159	137	**141**	**1**
	39	15	63	22	31	23	42	29	**33**	**1**
4 NDA7985-1R	36	---	35	---	62	31	53	46	**44**	**3**
	8	---	8	---	10	5	16	8	**9**	**2**
Red/Yellow Flesh										
5 AC97521-1R/Y	67	101	164	103	171	62	130	92	**111**	**1**
	17	24	54	17	25	10	32	19	**25**	**2**
6 ATTX961014-1R/Y	145	75	156	85	86	78	64	94	**98**	**3**
	39	21	32	17	12	12	16	17	**21**	**3**
7 ATTX98500-2P/Y	90	73	88	60	125	65	72	78	**81**	**4**
	20	15	25	10	21	11	29	19	**19**	**4**
8 CO97232-1R/Y	108	112	123	86	130	140	72	108	**110**	**2**
	32	32	30	20	24	28	20	21	**26**	**1**
9 CO97232-2R/Y	82	54	83	54	135	50	83	92	**79**	**5**
	21	13	22	11	25	10	20	17	**17**	**5**
10 CO97233-3R/Y	57	81	62	62	120	41	80	56	**70**	**6**
	14	20	15	11	24	7	20	12	**16**	**6**
11 POR00PG4-1	60	---	46	38	73	48	45	34	**49**	**7**
	21	---	17	10	14	13	13	8	**14**	**7**
Red/Red Flesh										
12 CO97222-1R/R	104	132	167	99	188	79	141	97	**126**	**3**
	27	37	38	20	37	18	39	21	**29**	**3**
13 CO97226-2R/R	176	245	299	131	280	205	160	221	**215**	**1**
	48	72	77	34	73	62	50	70	**61**	**2**
14 POR01PG20-12	99	127	138	148	141	51	91	108	**113**	**4**
	24	28	35	25	33	11	28	26	**26**	**4**
15 POR01PG22-1	254	4	240	238	219	430	122	181	**211**	**2**
	100	1	84	47	57	90	62	65	**63**	**1**
16 POR02PG5-1	38	42	50	43	49	20	50	27	**40**	**5**
	7	8	11	6	7	3	12	5	**7**	**5**
Purple/Purple Flesh										
17 All Blue	161	193	198	214	215	147	123	94	**168**	**3**
	38	44	62	43	39	30	37	30	**40**	**3**
18 CO97215-2P/P	93	83	164	150	154	156	146	123	**134**	**4**
	31	22	45	29	35	43	46	40	**36**	**4**
19 CO97227-2P/PW	167	305	289	244	259	257	179	231	**241**	**1**
	51	79	66	45	54	50	51	57	**57**	**1**
20 POR01PG16-1	140	---	296	213	167	177	53	216	**180**	**2**
	43	---	82	56	48	56	22	47	**51**	**2**
Yellow Flesh										
21 Yukon Gold	58	32	70	33	34	33	35	31	**41**	**3**
	17	8	20	6	6	7	10	7	**10**	**3**
22 A96510-4Y	27	23	24	46	34	19	55	23	**31**	**4**
	7	5	7	8	6	3	15	6	**7**	**4**
23 POR02PG26-5	149	---	121	131	142	83	81	69	**111**	**2**
	42	---	26	22	23	14	26	15	**24**	**2**
24 POR02PG37-2	168	---	233	109	187	102	137	155	**156**	**1**
	48	---	59	21	29	22	29	31	**34**	**1**
Mean	**104**	**97**	**141**	**109**	**136**	**101**	**92**	**100**	**110**	
	30	**25**	**37**	**22**	**27**	**22**	**27**	**24**	**27**	

[1]Entry 15 - This fingerling type was graded based on tuber length (size)

Table 10. Yield and Percent No. 2s & Culls

Clone/Variety	CA TUL	CO[1] SLV	ID AB	OR COR	OR HRM1	OR KLM	OR MAL	TX SPL	WA GRAN	Mean	Rank
	Yield and Percent No. 2s & Culls (Cwt/A & %)										
Red/White Flesh											
1 Dk Red Norland	15	7	9	121	16	34	14	0	64	**31**	**3**
	3	2	2	18	2	6	2	0	12	**5**	**3**
2 Red LaSoda	21	25	75	169	3	174	16	0	12	**55**	**1**
	5	5	15	30	0	30	3	0	2	**10**	**1**
3 CO98012-5R	13	5	0	94	23	17	9	0	19	**20**	**4**
	4	1	0	20	4	4	3	0	4	**4**	**4**
4 NDA7985-1R	12	---	12	---	18	144	---	0	20	**34**	**2**
	3	---	3	---	3	22	---	0	4	**6**	**2**
Red/Yellow Flesh											
5 AC97521-1R/Y	25	0	8	149	41	102	69	0	32	**47**	**3**
	6	0	3	24	6	16	11	0	7	**8**	**3**
6 ATTX961014-1R/Y	7	0	6	107	29	43	43	0	10	**27**	**5**
	2	0	1	21	4	7	8	0	2	**5**	**7**
7 ATTX98500-2P/Y	30	0	29	122	9	69	55	0	6	**36**	**4**
	7	0	8	20	2	12	8	0	1	**6**	**4**
8 CO97232-1R/Y	11	6	13	89	19	40	18	0	12	**23**	**7**
	3	2	3	21	3	8	5	0	2	**5**	**6**
9 CO97232-2R/Y	11	2	3	99	19	51	20	0	38	**27**	**6**
	3	1	1	20	4	10	6	0	7	**6**	**5**
10 CO97233-3R/Y	37	17	36	171	52	252	101	0	78	**83**	**2**
	9	4	9	31	10	46	24	0	17	**17**	**2**
11 POR00PG4-1	56	---	53	188	3	232	10	0	196	**92**	**1**
	20	---	20	52	1	61	4	0	45	**25**	**1**
Red/Red Flesh											
12 CO97222-1R/R	66	8	23	114	1	85	2	0	22	**36**	**3**
	17	2	5	23	0	19	1	0	5	**8**	**3**
13 CO97226-2R/R	16	1	3	126	5	23	25	0	5	**23**	**5**
	4	0	1	33	1	7	7	0	2	**6**	**5**
14 POR01PG20-12	33	4	50	182	14	142	36	0	13	**53**	**1**
	8	1	13	30	3	31	8	0	3	**11**	**1**
15 POR01PG22-1	0	6	1	164	53	12	61	0	4	**33**	**4**
	0	1	0	32	14	3	26	0	1	**9**	**2**
16 POR02PG5-1	65	0	21	134	9	120	26	0	10	**43**	**2**
	13	0	5	18	1	18	3	0	2	**7**	**4**
Purple/Purple Flesh											
17 All Blue	29	0	44	129	26	54	60	0	24	**41**	**2**
	7	0	14	26	5	11	27	0	8	**11**	**2**
18 CO97215-2P/P	24	12	5	114	13	37	22	0	4	**26**	**4**
	8	3	1	22	3	10	7	0	1	**6**	**4**
19 CO97227-2P/PW	24	1	36	134	34	52	51	0	7	**38**	**3**
	7	0	8	25	7	10	21	0	2	**9**	**3**
20 POR01PG16-1	79	---	11	112	26	76	36	0	25	**46**	**1**
	24	---	3	29	8	24	34	0	6	**16**	**1**
Yellow Flesh											
21 Yukon Gold	4	4	10	119	15	58	15	0	11	**26**	**3**
	1	1	3	23	3	12	4	0	2	**5**	**3**
22 A96510-4Y	39	5	31	204	43	207	63	7	7	**67**	**1**
	10	1	9	34	8	33	8	2	2	**12**	**1**
23 POR02PG26-5	10	---	15	105	64	64	31	0	26	**39**	**2**
	3	---	3	18	10	11	6	0	5	**7**	**2**
24 POR02PG37-2	6	---	4	99	12	35	4	0	16	**22**	**4**
	2	---	1	19	2	7	1	0	3	**4**	**4**
Mean	**26**	**5**	**21**	**132**	**23**	**89**	**34**	**0**	**28**	**40**	
	7	**1**	**5**	**26**	**4**	**17**	**10**	**0**	**6**	**9**	

[1]Entry 15 - This fingerling type was graded based on tuber length (size)

Table 11. Specific Gravity

	Specific Gravity										
	CA	CO	ID	OR				TX	WA		
Clone/Variety	TUL	SLV	AB	COR	HRM	KLM	MAL	SPL	GRAN	Mean	Rank
Red/White Flesh											
1 Dk Red Norland	1.073	1.073	1.069	1.075	1.061	1.078	1.071	1.058	1.074	**1.070**	**3**
2 Red LaSoda	1.077	1.080	1.069	1.116	1.060	1.080	1.073	1.059	1.074	**1.076**	**1**
3 CO98012-5R	1.082	1.081	1.076	1.079	1.064	1.081	1.076	1.067	1.079	**1.076**	**2**
4 NDA7985-1R	1.088	---	1.058		1.054	1.068	---	1.053	1.072	**1.065**	**4**
Red/Yellow Flesh											
5 AC97521-1R/Y	1.086	1.088	1.072	1.093	1.062	1.087	1.085	1.063	1.073	**1.079**	**1**
6 ATTX961014-1R/Y	1.086	1.082	1.078	1.086	1.072	1.082	1.071	1.066	1.084	**1.078**	**2**
7 ATTX98500-2P/Y	1.086	1.084	1.061	1.070	1.056	1.081	1.074	1.057	1.069	**1.071**	**6**
8 CO97232-1R/Y	1.087	1.080	1.071	1.083	1.065	1.083	1.076	1.064	1.086	**1.077**	**3**
9 CO97232-2R/Y	1.078	1.072	1.067	1.069	1.056	1.077	1.068	1.055	1.076	**1.069**	**7**
10 CO97233-3R/Y	1.087	1.081	1.071	1.076	1.058	1.086	1.080	1.053	1.079	**1.075**	**4**
11 POR00PG4-1	1.088	---	1.069	1.071	1.065	1.080	1.073	1.058	1.078	**1.073**	**5**
Red/Red Flesh											
12 CO97222-1R/R	1.073	1.076	1.070	1.080	1.058	1.072	1.071	1.054	1.072	**1.070**	**5**
13 CO97226-2R/R	1.084	1.080	1.078	1.083	1.066	1.085	1.080	1.062	1.074	**1.077**	**3**
14 POR01PG20-12	1.099	1.095	1.074	1.096	1.068	1.092	1.080	1.062	1.081	**1.083**	**2**
15 POR01PG22-1	1.078	1.081	1.070	1.077	1.056	1.086	1.078	1.053	1.069	**1.072**	**4**
16 POR02PG5-1	1.094	1.095	1.070	1.121	1.062	1.095	1.079	1.058	1.078	**1.083**	**1**
Purple/Purple Flesh											
17 All Blue	1.089	1.090	1.078	1.082	1.068	1.089	1.076	1.081	1.073	**1.081**	**3**
18 CO97215-2P/P	1.089	1.089	1.084	1.091	1.069	1.094	1.085	1.070	1.078	**1.083**	**2**
19 CO97227-2P/PW	1.095	1.086	1.082	1.100	1.069	1.091	1.083	1.072	1.083	**1.085**	**1**
20 POR01PG16-1	1.076	---	1.075	1.080	1.057	1.081	1.067	1.065	1.072	**1.072**	**4**
Yellow Flesh											
21 Yukon Gold	1.091	1.092	1.083	1.096	1.079	1.092	1.084	1.072	1.094	**1.087**	**1**
22 A96510-4Y	1.099	1.089	1.071	1.082	1.069	1.091	1.090	1.060	1.080	**1.081**	**3**
23 POR02PG26-5	1.087	---	1.080	1.086	1.068	1.081	1.077	1.062	1.083	**1.078**	**4**
24 POR02PG37-2	1.092	---	1.081	1.086	1.071	1.088	1.088	1.068	1.086	**1.083**	**2**
Mean	**1.086**	**1.084**	**1.073**	**1.086**	**1.064**	**1.084**	**1.078**	**1.062**	**1.078**	**1.077**	

Table 12. Average Tuber Size and Tubers/plant

	Average Tuber Size (oz)								Tubers/plant		
	CA	ID	OR			TX	WA		TX	WA	
Clone/Variety	TUL	AB	COR	HRM	MAL	SPL	GRAN	Mean	SPL	GRAN	Mean
Red/White Flesh											
1 Dk Red Norland	6.5	7.1	7.6	7.3	7.1	6.2	8.8	**7.2**	5.3	5.1	**5.2**
2 Red LaSoda	7.2	7.0	8.6	7.4	7.0	6.4	10.5	**7.7**	5.9	4.9	**5.4**
3 CO98012-5R	4.1	3.0	4.6	3.9	3.1	3.6	5.5	**4.0**	8.7	7.4	**8.1**
4 NDA7985-1R	7.5	7.5	---	6.1	---	5.0	8.7	**7.0**	6.2	5.5	**5.8**
Red/Yellow Flesh											
5 AC97521-1R/Y	5.3	3.4	5.6	4.3	4.2	3.8	6.8	**4.8**	8.9	6.4	**7.6**
6 ATTX961014-1R/Y	4.1	4.3	6.1	6.0	5.5	5.4	7.1	**5.5**	6.6	6.7	**6.7**
7 ATTX98500-2P/Y	5.1	4.7	7.0	4.6	5.4	3.9	6.9	**5.4**	5.4	5.1	**5.3**
8 CO97232-1R/Y	4.4	4.4	6.0	4.6	4.7	4.6	6.3	**5.0**	6.7	6.7	**6.7**
9 CO97232-2R/Y	5.1	5.2	7.1	4.7	4.7	4.9	7.1	**5.5**	7.6	6.7	**7.2**
10 CO97233-3R/Y	6.2	5.3	8.4	4.8	4.8	4.2	7.7	**5.9**	9.3	4.9	**7.1**
11 POR00PG4-1	5.4	5.7	9.6	5.6	4.8	6.1	9.2	**6.6**	4.9	4.3	**4.6**
Red/Red Flesh											
12 CO97222-1R/R	4.7	3.8	6.6	3.9	3.2	3.9	6.3	**4.6**	7.9	6.5	**7.2**
13 CO97226-2R/R	3.8	2.5	3.9	3.0	3.3	3.1	3.5	**3.3**	8.5	7.8	**8.2**
14 POR01PG20-12	5.0	4.3	7.0	4.0	4.1	3.6	6.0	**4.9**	7.6	6.2	**6.9**
15 POR01PG22-1	1.6	2.1	4.6	3.1	2.5	1.8	3.8	**2.8**	9.3	6.7	**8.0**
16 POR02PG5-1	7.5	7.2	9.3	7.8	6.9	6.2	10.9	**8.0**	6.2	4.1	**5.1**
Purple/Purple Flesh											
17 All Blue	4.0	2.9	5.4	3.9	2.6	3.4	5.5	**3.9**	8.4	5.3	**6.9**
18 CO97215-2P/P	4.5	3.6	4.5	3.8	3.2	3.2	4.5	**3.9**	8.3	6.0	**7.2**
19 CO97227-2P/PW	3.5	2.5	4.2	2.9	2.6	2.5	3.9	**3.1**	11.7	9.4	**10.6**
20 POR01PG16-1	3.5	2.3	4.3	2.9	2.4	3.3	4.5	**3.3**	6.1	9.2	**7.7**
Yellow Flesh											
21 Yukon Gold	6.0	5.4	9.7	7.3	6.9	7.1	9.7	**7.5**	5.0	4.1	**4.6**
22 A96510-4Y	8.1	8.3	9.5	7.5	7.2	5.7	9.5	**8.0**	5.5	3.3	**4.4**
23 POR02PG26-5	3.9	4.8	5.2	4.7	5.5	4.0	7.5	**5.1**	6.6	5.4	**6.0**
24 POR02PG37-2	3.7	3.3	4.7	4.5	4.1	4.4	5.4	**4.3**	9.0	7.7	**8.3**
Mean	**5.0**	**4.6**	**6.5**	**4.9**	**4.6**	**4.4**	**6.9**	**5.3**	**7.3**	**6.1**	**6.7**

Table 13. Tuber Shape and Size Uniformity

Clone/Variety	Tuber Shape Uniformity (1-5 excellent) CA TUL	KLM[1]	WA GRAN	Mean	Tuber Size Uniformity (1-5 excellent) WA GRAN
Red/White Flesh					
1 Dk Red Norland	3.3	4.1	2.0	**3.1**	**3.0**
2 Red LaSoda	1.8	2.9	1.0	**1.9**	**3.0**
3 CO98012-5R	3.5	4.5	4.0	**4.0**	**3.8**
4 NDA7985-1R	4.3	3.0	3.5	**3.6**	**3.3**
Red/Yellow Flesh					
5 AC97521-1R/Y	4.3	3.8	2.5	**3.5**	**3.0**
6 ATTX961014-1R/Y	4.0	3.9	4.0	**4.0**	**3.0**
7 ATTX98500-2P/Y	3.5	3.9	3.0	**3.5**	**3.0**
8 CO97232-1R/Y	3.8	3.8	3.5	**3.7**	**3.0**
9 CO97232-2R/Y	3.0	3.8	2.5	**3.1**	**3.0**
10 CO97233-3R/Y	2.5	2.4	2.0	**2.3**	**3.0**
11 POR00PG4-1	3.8	1.9	1.0	**2.2**	**3.0**
Red/Red Flesh					
12 CO97222-1R/R	3.0	3.6	3.3	**3.3**	**3.5**
13 CO97226-2R/R	2.8	4.3	4.0	**3.7**	**4.0**
14 POR01PG20-12	2.8	3.5	3.8	**3.4**	**3.8**
15 POR01PG22-1	5.0	4.8	3.5	**4.4**	**4.0**
16 POR02PG5-1	2.3	4.1	3.5	**3.3**	**3.8**
Purple/Purple Flesh					
17 All Blue	2.8	3.6	2.3	**2.9**	**3.0**
18 CO97215-2P/P	3.3	4.5	4.0	**3.9**	**3.8**
19 CO97227-2P/PW	3.3	3.5	3.8	**3.5**	**4.0**
20 POR01PG16-1	2.0	3.6	2.5	**2.7**	**3.8**
Yellow Flesh					
21 Yukon Gold	4.0	3.9	3.8	**3.9**	**3.5**
22 A96510-4Y	3.3	2.5	2.5	**2.8**	**3.0**
23 POR02PG26-5	3.3	4.1	3.3	**3.6**	**4.0**
24 POR02PG37-2	3.5	4.4	4.0	**4.0**	**4.0**
Mean	**3.3**	**3.7**	**3.0**	**3.3**	**3.4**

[1]Combination reading of both size and shape

Table 14. Tuber Shape

Clone/Variety	Tuber Shape (1 - 5 long)									L/W		
	CA	CO	ID	OR			TX	WA		OR	WA	
	TUL	SLV	AB	COR	HRM	KLM	SPL	GRAN	Mean	HRM	GRAN	Mean
Red/White Flesh												
1 Dk Red Norland	1.5	2.0	2.5	2.4	2.0	1.9	3.5	2.0	**2.2**	1.16	1.15	**1.15**
2 Red LaSoda	1.0	2.0	2.5	2.0	1.4	1.8	3.5	2.0	**2.0**	1.06	1.01	**1.03**
3 CO98012-5R	1.0	1.0	1.0	2.0	1.0	1.4	3.1	1.3	**1.5**	0.99	1.05	**1.02**
4 NDA7985-1R	1.5	---	1.5	---	1.4	1.8	3.5	1.3	**1.8**	1.06	1.09	**1.07**
Red/Yellow Flesh												
5 AC97521-1R/Y	2.5	3.0	2.0	2.5	2.2	2.1	3.5	2.5	**2.5**	1.20	1.22	**1.21**
6 ATTX961014-1R/Y	1.5	2.0	2.8	2.0	2.7	1.9	3.5	2.0	**2.3**	1.32	1.23	**1.28**
7 ATTX98500-2P/Y	1.0	1.0	1.5	2.3	1.3	1.4	2.0	2.0	**1.6**	1.04	1.15	**1.10**
8 CO97232-1R/Y	3.0	2.0	2.0	3.0	3.2	2.6	3.5	3.0	**2.8**	1.46	1.38	**1.42**
9 CO97232-2R/Y	2.3	2.0	2.3	2.0	2.1	1.9	3.5	2.0	**2.3**	1.19	1.23	**1.21**
10 CO97233-3R/Y	3.0	4.0	3.0	3.0	3.4	2.9	3.5	2.3	**3.1**	1.50	1.51	**1.51**
11 POR00PG4-1	2.8	---	2.8	2.5	2.5	2.5	3.3	2.5	**2.7**	1.28	1.46	**1.37**
Red/Red Flesh												
12 CO97222-1R/R	3.0	2.0	3.0	1.0	2.5	2.4	3.5	2.8	**2.5**	1.28	1.36	**1.32**
13 CO97226-2R/R	1.0	1.0	1.0	3.5	1.0	1.3	2.6	1.0	**1.5**	0.94	1.26	**1.10**
14 POR01PG20-12	4.8	5.0	4.3	2.8	4.8	3.6	3.9	4.0	**4.1**	1.85	1.93	**1.89**
15 POR01PG22-1	5.0	3.0	5.0	5.0	5.0	5.0	4.1	5.0	**4.6**	2.66	2.45	**2.56**
16 POR02PG5-1	1.3	1.0	2.0	2.6	1.0	1.9	2.9	1.0	**1.7**	1.00	1.02	**1.01**
Purple/Purple Flesh												
17 All Blue	5.0	2.0	4.8	4.8	4.1	4.5	4.0	4.0	**4.2**	1.69	1.92	**1.80**
18 CO97215-2P/P	2.8	2.0	1.0	2.3	1.4	1.4	3.5	1.3	**2.0**	1.05	1.26	**1.16**
19 CO97227-2P/PW	5.0	2.0	4.8	2.5	4.0	3.4	3.7	3.8	**3.6**	1.66	1.89	**1.78**
20 POR01PG16-1	5.0	---	4.8	5.0	5.0	4.9	4.0	5.0	**4.8**	2.22	2.28	**2.25**
Yellow Flesh												
21 Yukon Gold	2.3	2.0	1.5	2.2	2.1	1.8	3.5	2.0	**2.2**	1.16	1.13	**1.15**
22 A96510-4Y	4.3	4.0	4.0	---	3.9	3.4	3.9	3.0	**3.8**	1.62	1.58	**1.60**
23 POR02PG26-5	1.3	---	2.3	2.3	2.1	1.8	3.2	2.0	**2.1**	1.17	1.27	**1.22**
24 POR02PG37-2	1.0	---	1.3	2.5	2.1	2.3	3.4	1.0	**1.9**	1.16	1.10	**1.13**
Mean	**2.6**	**2.3**	**2.7**	**2.7**	**2.6**	**2.5**	**3.4**	**2.4**	**2.7**	**1.36**	**1.41**	**1.39**

Table 15. Skin and Flesh Color

	Skin Color (1 - 5 dark)									Flesh Color (1 - 5 dark)							
	CA	CO	ID	OR			TX	WA		CA	CO	ID	OR			TX	
Clone/Variety	TUL	SLV	AB	COR	HRM	KLM	SPL	GRAN	Mean	TUL	SLV	AB	COR	HRM	KLM	SPL	Mean
Red/White Flesh																	
1 Dk Red Norland	2.0	1.0	3.0	4.0	1.5	1.9	3.0	1.8	**2.3**	1.0	---	1.0	1.0	---	1.0	1.0	**1.0**
2 Red LaSoda	2.0	1.0	3.0	3.0	2.0	1.8	3.5	3.0	**2.4**	1.0	---	1.0	1.0	---	1.5	1.0	**1.1**
3 CO98012-5R	4.0	4.0	3.8	3.0	3.5	3.8	4.1	4.0	**3.8**	1.0	---	1.0	1.0	---	1.3	1.0	**1.1**
4 NDA7985-1R	3.3	---	3.5	---	4.3	3.3	3.8	4.0	**3.7**	1.0	---	1.0	---	---	1.3	1.0	**1.1**
Red/Yellow Flesh																	
5 AC97521-1R/Y	2.3	2.0	3.8	4.0	2.4	1.8	3.7	3.0	**2.9**	4.0	4.0	3.5	3.0	1.6	3.1	3.3	**3.2**
6 ATTX961014-1R/Y	2.5	4.0	3.0	3.0	4.0	2.9	3.6	4.0	**3.4**	2.5	3.0	2.5	4.0	1.4	2.5	3.2	**2.7**
7 ATTX98500-2P/Y	5.0	4.0	5.0	4.0	4.3	4.5	4.8	5.0	**4.6**	3.8	4.0	3.0	3.0	2.0	3.4	2.7	**3.1**
8 CO97232-1R/Y	2.0	1.0	3.0	3.0	2.3	2.4	3.6	2.5	**2.5**	4.1	4.0	3.8	4.0	2.4	3.4	3.1	**3.5**
9 CO97232-2R/Y	1.8	1.0	2.0	3.0	1.5	1.9	3.0	2.5	**2.1**	4.0	4.0	4.0	4.0	2.6	3.3	3.8	**3.7**
10 CO97233-3R/Y	2.3	3.0	3.5	4.0	3.4	3.0	3.9	4.0	**3.4**	3.6	4.0	3.0	4.0	2.8	3.1	3.4	**3.4**
11 POR00PG4-1	2.0	---	3.0	3.0	2.0	2.6	3.5	3.0	**2.7**	4.6	---	5.0	4.0	3.1	3.9	3.9	**4.1**
Red/Red Flesh																	
12 CO97222-1R/R	4.5	5.0	4.0	5.0	4.0	4.5	4.5	5.0	**4.6**	4.8	5.0	4.0	3.0	3.8	4.8	3.2	**4.1**
13 CO97226-2R/R	4.5	5.0	5.0	5.0	3.5	4.4	4.5	5.0	**4.6**	4.7	4.0	4.5	3.0	4.4	4.8	3.1	**4.1**
14 POR01PG20-12	3.8	5.0	4.0	5.0	4.1	3.1	4.5	5.0	**4.3**	3.0	3.0	3.0	3.0	2.6	4.1	3.0	**3.1**
15 POR01PG22-1	3.0	3.0	5.0	5.0	3.0	4.0	4.3	5.0	**4.0**	3.0	4.0	3.0	3.0	3.1	4.1	3.3	**3.4**
16 POR02PG5-1	4.8	2.0	4.0	4.0	2.0	2.4	4.0	5.0	**3.5**	1.5	---	2.0	3.0	2.8	3.8	3.5	**2.8**
Purple/Purple Flesh																	
17 All Blue	5.0	4.0	5.0	5.0	2.0	4.6	4.8	5.0	**4.4**	4.6	3.0	5.0	2.0	3.3	5.0	3.5	**3.8**
18 CO97215-2P/P	5.0	5.0	5.0	5.0	4.0	5.0	4.8	5.0	**4.9**	5.0	5.0	5.0	5.0	4.9	5.0	4.5	**4.9**
19 CO97227-2P/PW	5.0	4.0	5.0	5.0	3.5	5.0	4.8	5.0	**4.7**	5.0	5.0	5.0	5.0	5.0	5.0	4.8	**5.0**
20 POR01PG16-1	5.0	---	4.8	5.0	3.8	4.8	5.0	5.0	**4.8**	5.0	---	5.0	5.0	4.9	5.0	4.3	**4.9**
Yellow Flesh																	
21 Yukon Gold	1.8	1.0	1.0	2.0	1.0	3.4	1.5	3.0	**1.8**	3.0	2.0	3.0	2.0	2.0	2.6	3.0	**2.5**
22 A96510-4Y	3.0	4.0	1.0	3.0	3.0	2.6	1.5	3.0	**2.6**	2.5	2.0	2.0	2.0	0.6	2.3	1.3	**1.8**
23 POR02PG26-5	1.5	---	1.0	2.0	1.0	3.0	2.0	3.0	**1.9**	3.7	---	3.0	3.0	1.4	2.6	2.7	**2.7**
24 POR02PG37-2	2.0	---	1.0	3.0	1.0	3.0	1.5	3.0	**2.1**	3.9	---	4.0	4.0	1.9	3.3	2.9	**3.3**
Mean	**3.3**	**3.1**	**3.4**	**3.8**	**2.8**	**3.3**	**3.7**	**3.9**	**3.4**	**3.3**	**3.7**	**3.2**	**3.1**	**2.8**	**3.3**	**2.9**	**3.1**

Table 16. Eye Depth and External Defects

Clone/Variety	Eye depth (mm) MAL	Eye[1] Depth	External Defects[2] Skinning	Growth cracks	Knobs	Shatter Bruise	Common Scab
Red/White Flesh							
1 Dk Red Norland	2.5	3.0	4.1	4.1	5.0	4.3	3.8
2 Red LaSoda	5.1	1.6	3.7	4.5	5.0	4.9	3.4
3 CO98012-5R	2.1	3.7	4.1	4.4	5.0	4.8	3.7
4 NDA7985-1R	---	3.8	3.1	4.8	4.9	4.8	4.3
Red/Yellow Flesh							
5 AC97521-1R/Y	1.9	4.0	3.6	4.6	4.8	4.8	3.8
6 ATTX961014-1R/Y	2.3	4.0	4.8	4.9	5.0	4.8	2.5
7 ATTX98500-2P/Y	2.0	3.5	3.2	4.9	4.9	4.8	4.5
8 CO97232-1R/Y	1.9	4.0	2.9	4.8	4.9	4.9	3.7
9 CO97232-2R/Y	1.6	3.7	4.4	4.6	4.9	4.8	4.3
10 CO97233-3R/Y	1.4	4.0	2.6	3.6	5.0	4.9	3.5
11 POR00PG4-1	2.0	3.3	4.4	3.1	3.7	4.8	4.5
Red/Red Flesh							
12 CO97222-1R/R	2.5	3.7	3.5	4.4	4.9	4.2	4.0
13 CO97226-2R/R	2.8	3.5	4.1	4.8	5.0	4.9	4.8
14 POR01PG20-12	2.0	3.7	2.1	4.7	4.7	4.9	4.2
15 POR01PG22-1	1.3	4.1	3.3	5.0	5.0	4.9	4.6
16 POR02PG5-1	2.4	3.5	3.3	4.9	5.0	4.7	2.8
Purple/Purple Flesh							
17 All Blue	2.0	2.6	3.4	4.8	4.8	4.8	4.0
18 CO97215-2P/P	1.3	4.2	3.9	4.6	4.7	4.6	4.5
19 CO97227-2P/PW	1.5	3.8	3.1	4.3	4.9	4.8	4.3
20 POR01PG16-1	1.3	3.8	4.4	5.0	4.8	4.8	4.3
Yellow Flesh							
21 Yukon Gold	1.5	4.1	4.7	4.8	4.9	4.6	1.7
22 A96510-4Y	2.3	4.1	2.4	4.7	4.7	4.9	4.6
23 POR02PG26-5	2.1	3.6	4.7	4.9	4.8	4.8	2.5
24 POR02PG37-2	2.1	3.6	4.6	4.9	4.9	4.9	4.0
Mean	**2.1**	**3.6**	**3.7**	**4.6**	**4.8**	**4.8**	**3.8**

[1] 1=deep; 5=shallow

[2] 1=severe; 5=none

Table 17. Internal Defects

Clone/Variety	Percent Internal Defects			Blackspot Bruise 1-5=none	
	HH BC	IBS	VD	CO	WA
Red/White Flesh					
1 Dk Red Norland	3	0	1	3.9	4.0
2 Red LaSoda	9	2	2	4.0	3.0
3 CO98012-5R	1	2	1	4.2	3.0
4 NDA7985-1R	1	0	1	---	2.8
Red/Yellow Flesh					
5 AC97521-1R/Y	4	2	2	3.2	3.0
6 ATTX961014-1R/Y	0	1	4	4.3	2.8
7 ATTX98500-2P/Y	0	1	3	4.4	4.0
8 CO97232-1R/Y	1	0	3	4.2	3.0
9 CO97232-2R/Y	4	0	1	5.0	2.5
10 CO97233-3R/Y	1	5	1	4.5	2.5
11 POR00PG4-1	2	1	3	---	2.8
Red/Red Flesh					
12 CO97222-1R/R	1	2	9	---	3.5
13 CO97226-2R/R	0	0	26	---	4.0
14 POR01PG20-12	3	2	13	---	4.0
15 POR01PG22-1	1	0	0	---	3.5
16 POR02PG5-1	0	0	1	4.1	4.5
Purple/Purple Flesh					
17 All Blue	0	0	2	---	3.5
18 CO97215-2P/P	0	0	9	---	4.0
19 CO97227-2P/PW	0	0	0	---	5.0
20 POR01PG16-1	0	0	0	---	4.0
Yellow Flesh					
21 Yukon Gold	3	1	1	4.5	5.0
22 A96510-4Y	1	0	1	4.6	5.0
23 POR02PG26-5	0	2	3	---	5.0
24 POR02PG37-2	2	1	2	---	5.0
Mean	**2**	**1**	**4**	**4.2**	**3.7**

Table 18. Fresh Market Quality (Merit Scores)

Clone/Variety	Fresh Merit Score (1-5 best) CO SLV	ID AB	OR COR	OR HRM	WA GRAN	TX SPL	Mean	Rank
Red/White Flesh								
1 Dk Red Norland	1.0	3.5	3.0	2.5	2.0	2.9	**2.5**	**4**
2 Red LaSoda	3.0	2.0	3.0	1.0	3.5	3.9	**2.7**	**3**
3 CO98012-5R	4.0	3.8	---	3.0	4.0	3.7	**3.7**	**1**
4 NDA7985-1R	---	2.5	---	3.0	2.5	3.5	**2.9**	**2**
Red/Yellow Flesh								
5 AC97521-1R/Y	4.0	3.8	3.0	3.5	2.5	2.7	**3.3**	**3**
6 ATTX961014-1R/Y	3.0	4.0	5.0	4.5	4.5	4.0	**4.2**	**1**
7 ATTX98500-2P/Y	4.0	2.5	5.0	3.5	3.0	2.6	**3.4**	**2**
8 CO97232-1R/Y	2.0	3.8	4.0	2.0	3.5	3.3	**3.1**	**4**
9 CO97232-2R/Y	4.0	4.0	4.0	2.0	0.5	2.7	**2.9**	**5**
10 CO97233-3R/Y	4.0	2.8	4.0	1.0	0.5	2.8	**2.5**	**7**
11 POR00PG4-1	---	2.3	3.0	4.5	0.5	3.1	**2.7**	**6**
Red/Red Flesh								
12 CO97222-1R/R	3.0	3.0	2.5	3.0	0.5	3.2	**2.5**	**4**
13 CO97226-2R/R	3.0	2.5	2.5	1.0	3.0	2.5	**2.4**	**5**
14 POR01PG20-12	3.0	2.5	2.0	1.0	4.0	2.8	**2.5**	**3**
15 POR01PG22-1	4.0	2.0	4.0	1.0	4.0	3.6	**3.1**	**1**
16 POR02PG5-1	5.0	2.5	4.0	2.0	2.0	2.5	**3.0**	**2**
Purple/Purple Flesh								
17 All Blue	3.0	1.5	2.5	1.0	2.0	2.0	**2.0**	**4**
18 CO97215-2P/P	3.0	3.5	2.0	3.0	4.0	3.0	**3.1**	**1**
19 CO97227-2P/PW	3.0	2.0	2.0	2.0	3.0	2.6	**2.4**	**3**
20 POR01PG16-1	---	2.5	4.0	3.0	2.5	3.2	**3.0**	**2**
Yellow Flesh								
21 Yukon Gold	3.0	2.3	5.0	5.0	3.0	4.5	**3.8**	**1**
22 A96510-4Y	4.0	1.5	2.0	1.0	0.5	3.0	**2.0**	**4**
23 POR02PG26-5	---	4.3	4.5	4.0	2.0	3.3	**3.6**	**3**
24 POR02PG37-2	---	4.8	4.0	3.5	3.0	3.3	**3.7**	**2**
Mean	3.3	2.9	3.4	2.5	2.5	3.1	**3.0**	

Table 19. Foliar & Tuber Late Blight, Virus, Early Die Evaluation and Metribuzin Reaction

	Corvallis, Oregon			Hermiston, Ore			
	L. Blight		Tuber	% Infected w/ PVY/PLRV[3]		Early	Idaho
Clone/Variety	AUDPC	Foliar[1]	blight[2]	%PVY	%PLRV	die[4]	Metribuzin Reaction[5]
Red/White Flesh							
1 Dk Red Norland	1600	9.0	58	75	65	8.4	MR
2 Red LaSoda	1591	9.0	80	80	70	8.5	R
3 CO98012-5R	1600	9.0	35	50	60	8.4	R
4 NDA7985-1R	---	---	---	95	75	8.4	R
Red/Yellow Flesh							
5 AC97521-1R/Y	---	---	---	100	15	7.8	R
6 ATTX961014-1R/Y	1600	9.0	53	100	75	9.0	R
7 ATTX98500-2P/Y	1527	8.8	23	10	70	6.6	R
8 CO97232-1R/Y	1600	9.0	5	95	95	9.0	MS
9 CO97232-2R/Y	1597	9.0	35	50	50	9.0	R
10 CO97233-3R/Y	1538	8.8	10	5	75	7.0	R
11 POR00PG4-1	1593	9.0	60	60	85	8.9	S
Red/Red Flesh							
12 CO97222-1R/R	1600	9.0	41	80	35	8.1	R
13 CO97226-2R/R	1597	9.0	36	65	55	5.9	R
14 POR01PG20-12	1581	9.0	43	50	10	5.3	R
15 POR01PG22-1	1572	9.0	3	50	95	6.9	VS
16 POR02PG5-1	1536	8.0	23	75	30	3.8	R
Purple/Purple Flesh							
17 All Blue	1581	9.0	73	40	90	6.9	R
18 CO97215-2P/P	1600	9.0	8	45	100	7.3	R
19 CO97227-2P/PW	1594	9.0	83	100	80	6.8	R
20 POR01PG16-1	1600	9.0	60	20	100	8.4	R
Yellow Flesh							
21 Yukon Gold	1591	9.0	13	80	85	9.0	R
22 A96510-4Y	1569	8.8	55	0	95	4.3	R
23 POR02PG26-5	1600	9.0	73	0	90	7.9	R
24 POR02PG37-2	1600	9.0	38	100	90	8.6	R
Mean	**1585**	**8.9**	**41**	**59.4**	**70.4**	**7.5**	

[1/] 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=≥90%

[2/] % of late blight infected tubers at harvest (10 randomly selected tubers). Vales & Yilma; Corvallis, OR.

[3/] Results are from ELISA evaluation of sprouts from daughter tubers of plants grown under high virus pressure - 20 randomly collected tubers from 30 hill plots evaluated. Entry 3 only 10 tubers were evaluated.

[4/] Early die rating 0-9 with 9=dead for all trials

[5/]VS=Very Susceptible; S=Susceptible; MS=Moderately Susceptible; MR=Moderately Resistant; R=Resistant; VR=Very Resistant

Table 20. Culinary Tuber Quality and Composition

Clone/Variety	Washington					Aberdeen, Idaho					
	Culinary Quality [1]					Mean					
	Boiling	Baking	Micro	Total	Rank	Solids	Protein[2]	Dextrose[3]	Sucrose[3]	Vitamin C[4]	TGA[5]
Red/White Flesh											
1 Dk Red Norland	18.6	20.9	18.3	**57.8**	**1**	17.8	5.4	0.05	0.18	28.7	3.3
2 Red LaSoda	18.3	20.3	17.0	**55.6**	**2**	18.1	6.5	0.13	0.18	36.9	4.4
3 CO98012-5R	15.1	19.0	18.0	**52.1**	**4**	19.5	5.2	0.05	0.20	26.2	5.8
4 NDA7985-1R	17.4	19.8	16.9	**54.1**	**3**	16.5	6.9	0.13	0.34	26.0	5.6
Red/Yellow Flesh											
5 AC97521-1R/Y	18.4	17.9	17.4	**53.7**	**5**	17.6	5.9	0.28	0.30	23.0	1.2
6 ATTX961014-1R/Y	18.0	20.6	18.8	**57.3**	**1**	19.9	5.3	0.04	0.20	33.3	1.8
7 ATTX98500-2P/Y	18.6	17.4	16.8	**52.8**	**6**	16.9	5.6	0.10	0.34	23.0	2.3
8 CO97232-1R/Y	15.1	19.4	20.8	**55.3**	**2**	18.1	5.3	0.02	0.11	28.9	4.5
9 CO97232-2R/Y	18.9	17.2	15.8	**51.8**	**7**	17.3	5.3	0.05	0.14	27.7	10.1
10 CO97233-3R/Y	19.3	18.8	15.8	**53.8**	**4**	19.2	5.9	0.10	0.17	28.0	5.0
11 POR00PG4-1	15.6	19.6	19.2	**54.4**	**3**	19.2	7.1	0.06	0.36	27.7	2.2
Red/Red Flesh											
12 CO97222-1R/R	16.6	19.3	21.2	**57.2**	**2**	19.1	5.2	0.02	0.19	22.1	3.1
13 CO97226-2R/R	15.9	19.6	19.6	**55.1**	**5**	19.7	5.4	0.12	0.39	15.8	5.4
14 POR01PG20-12	16.6	21.1	21.0	**58.7**	**1**	18.9	5.6	0.07	0.25	27.0	5.3
15 POR01PG22-1	17.8	19.8	18.4	**55.9**	**3**	17.9	5.5	0.10	0.44	20.0	5.1
16 POR02PG5-1	18.6	20.7	16.0	**55.2**	**4**	18.5	5.1	0.06	0.21	28.0	2.2
Purple/Purple Flesh											
17 All Blue	16.4	19.7	17.2	**53.3**	**2**	18.7	4.7	0.07	0.25	26.0	5.0
18 CO97215-2P/P	15.4	20.2	19.6	**55.1**	**1**	20.4	4.7	0.01	0.29	20.4	2.7
19 CO97227-2P/PW	15.1	20.5	17.6	**53.2**	**3**	20.4	5.3	0.04	0.33	19.8	3.2
20 POR01PG16-1	16.1	19.2	16.2	**51.5**	**4**	18.1	4.1	0.05	0.20	28.4	2.5
Yellow Flesh											
21 Yukon Gold	18.4	20.3	14.6	**53.4**	**3**	20.8	6.3	0.04	0.32	46.4	2.4
22 A96510-4Y	16.3	19.1	16.4	**51.8**	**4**	20.2	6.3	0.14	0.23	26.6	8.3
23 POR02PG26-5	17.9	19.6	19.6	**57.0**	**1**	20.2	5.0	0.03	0.38	25.3	5.0
24 POR02PG37-2	16.0	20.0	19.6	**55.6**	**2**	34.8	6.5	0.03	0.34	34.8	1.4
Mean	**17.1**	**19.6**	**18.0**	**54.7**		**19.5**	**5.6**	**0.07**	**0.26**	**27.1**	**4.1**

[1/] Higher score = better quality, maximum = 25 per test. Knowles & Fuller, Pullman, WA.

[2/] % Dry Weight Basis

[3/] % Fresh Weight Basis

[4/] % Fresh Weight Basis (mg/100g)

[5/] % Fresh Weight Basis (mg/100g), using Lenepe as check with reading of 43.7

Table 21. Summary Means

Clone/Variety	Field Data: % Stand	Vine Size	Vine Mat.	% HH & BC	Yield Qualities: % <4	% 4-10	% >10	% 2s and Culls	Total	Quality: Spec. grav.	Culinary quality[1]	Fresh Merit	Disposition: Year	2007
Red/White Flesh														
1 Dk Red Norland	98	3.0	2.4	3	9	59	31	5	**538**	1.070	57.8	2.5	***	
2 Red LaSoda	98	3.1	2.7	9	7	49	36	10	**539**	1.076	55.6	2.7	***	
3 CO98012-5R	99	3.6	2.8	1	33	61	3	4	**424**	1.076	52.1	3.7	1	
4 NDA7985-1R	97	3.2	3.0	1	9	57	29	6	**513**	1.065	54.1	2.9	1	
Red/Yellow Flesh														
5 AC97521-1R/Y	97	4.4	3.3	4	25	61	9	8	**505**	1.079	53.7	3.3	2	
6 ATTX961014-1R/Y	97	2.8	2.1	0	21	62	16	5	**512**	1.078	57.3	4.2	1	
7 ATTX98500-2P/Y	98	4.5	4.1	0	19	62	15	6	**488**	1.071	52.8	3.4	1	
8 CO97232-1R/Y	96	2.8	2.3	1	26	65	7	5	**423**	1.077	55.3	3.1	2	
9 CO97232-2R/Y	98	2.6	2.4	4	17	65	13	6	**450**	1.069	51.8	2.9	2	
10 CO97233-3R/Y	92	3.4	3.6	1	16	56	14	17	**455**	1.075	53.8	2.5	2	
11 POR00PG4-1	99	3.0	3.1	2	14	47	15	25	**359**	1.073	54.4	2.7	1	
Red/Red Flesh														
12 CO97222-1R/R	97	3.1	2.9	1	29	58	8	8	**412**	1.070	57.2	2.5	1	
13 CO97226-2R/R	99	3.2	3.1	0	61	38	2	6	**351**	1.077	55.1	2.4	2	
14 POR01PG20-12	99	3.7	3.8	3	26	56	10	11	**442**	1.083	58.7	2.5	3	
15 POR01PG22-1	99	3.9	3.7	1	63	32	1	9	**335**	1.072	55.9	3.1	2	
16 POR02PG5-1	96	4.4	4.6	0	7	47	41	7	**599**	1.083	55.2	3.0	1	
Purple/Purple Flesh														
17 All Blue	99	3.8	3.5	0	40	48	6	11	**399**	1.081	53.3	2.0	***	
18 CO97215-2P/P	95	3.8	3.5	0	36	56	4	6	**365**	1.083	55.1	3.1	1	
19 CO97227-2P/PW	99	3.9	3.3	0	57	40	1	9	**410**	1.085	53.2	2.4	1	
20 POR01PG16-1	98	2.6	2.8	0	51	39	1	16	**318**	1.072	51.5	3.0	2	
Yellow Flesh														
21 Yukon Gold	95	3.2	2.1	3	10	53	33	5	**432**	1.087	53.4	3.8	***	
22 A96510-4Y	97	4.3	4.1	1	7	40	41	12	**494**	1.081	51.8	2.0	2	
23 POR02PG26-5	98	2.8	2.8	0	24	60	12	7	**493**	1.078	57.0	3.6	1	
24 POR02PG37-2	98	2.5	2.3	2	34	60	6	4	**467**	1.083	55.6	3.7	1	
Mean	**97**	**3**	**3**	**2**	**27**	**53**	**15**	**9**	**447**	**1.077**	**54.7**	**3.0**		

[1/] Higher score = better quality, maximum = 75 compiled of 3 scores. Knowles & Fuller, Pullman, WA.

Table 22. 3-Year Summary of Graduating Entries

Clone/Variety	Yield (cwt/a) B's	4-6 oz	6-10 oz	Total	> 10	Culls	Total Yield (cwt/a)	Spec. Grav.	% HH & BC	Quality Rating[1]	Culinary Quality[2]
Red/White Flesh											
1 Dk Red Norland	55	100	175	384	118	30	466	1.068	3	58.2	2.7
2 Red LaSoda	42	79	171	423	175	54	515	1.074	13	56.5	2.5
Red/Red Flesh											
3 POR01PG20-12	107	111	117	271	42	46	417	1.082	2	57.8	2.7

[1] Fresh Market Rating: 1 = Poor, 5 = Best

[2] Rating: Boiling, Baking, Microwave Test, Higher score = better quality; maximum = 25 per test

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Additional Information on Chipping and Frying
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