

2006 Western Regional Red/Specialty Potato Trial

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Description of Clones - 2006 Western Regional Red/Specialty Trial

Clone/Variety	Parents		Flower Color	Vine Size	Maturity	Tuber Shape	Skin Type	Entered By	Use	Seed	Year
	Female	Male									
Red/White Flesh											
1 Dk. Red Norland	RedKote	ND626	Red-Purple	Sm	Early	Oval	Dk. Red	Check	Fresh	ID	***
2 Red LaSoda	Triumph	Katahdin	Red-Purple	Med	Med	Oval	Lt. Red	Check	Fresh	TX	***
Red/Yellow Flesh											
3 AC97521-1R/Y	SJP/T48YF	A91846-5R	Red-Purple	Lg	Med	Oval	Red	CO	Spec	CO	1
4 CO97232-1R/Y	CO94218-1	VC0967-2	Purple	Med	Med/Early	Oblong	Red	CO	Spec/Fry	CO	1
5 CO97232-2R/Y	CO94218-1	VC0967-2	Red-Purple	Med	Med	Round	Red	CO	Spec/Fry	CO	1
6 CO97233-3R/Y	CO94218-1	VC0967-5	Red-Purple	Med	Med/Late	Oblong	Red	CO	Spec	CO	1
7 PA99P11-2	Granola	9.10E+23	White	Med	Med	Round	White Red spot	OR/WA	Fresh	OR	1
Red/Red Flesh											
8 CO97226-2R/R	CO94183-1	CO94214-1	White	Med/Lg	Early	Round	Red	CO	Spec	CO	1
9 POR01PG20-12	PA97B35-2	PA97B29-3	Red-Purple	Med	Med	Oblong	Red	WA/OR	Dual	OR	2
10 POR01PG22-1	PA97B23-2	Red bulk	Red-Purple	Med	Med	Fingerling	Red	WA/OR	Fresh	OR	1
Purple/Purple Flesh											
11 All Blue	???	???	Blue	Med/Lg	Med/Late	Long	Dk. Blue	Check	Fresh	OR	***
12 POR01PG16-1	NDOP5847-1	Red bulk	Light Blue	Med	Med	Fingerling	Purple	OR/WA	Fresh	OR	1
Yellow Flesh											
13 Yukon Gold	Norgleam	W5279-4	Pink	Med	Early	Oval	White	Check	Fresh	OR	***
14 A96510-4Y	PA92A17-6	A91194-4	Red-Purple	Med/Lg	Med	Oblong	Lt. Russet	ID	Dual	ID	1
15 VC1009-1W/Y	Agria	MN12823	White	Large	Med	Oblong	White	CO	Fr./Fry	OR	3
16 VC1123-2W/Y	Agria	FV9307-3	White	Large	Med	Oval	White	CO	Dual	OR	2

Cultural Management

Trial Information

Trial Location	Tulelake, CA
Cooperators	Carlson, Kirby
Irrigation	Solid Set
Fertilizer	260N-240P-110S
Planting date	5/12/2006
Vine kill date	9/9/2006 Red 9/18/2006
Vine kill method	Diquat
Harvest date	10/9/2006

Trial Chemical Applications

Herbicides	Insecticides	Fungicides
Matrix	Monitor	Maxim
		Dithane F-45
		Bravo

Trial Information

Trial Location	San Luis Valley, CO
Cooperators	Holm, F Goktepe
Irrigation	Center Pivot
Fertilizer	120 lbs N + 60 lbs P2O5 + 40 lbs K2O + 25lbs S + 2.5 lb Zn/A
Planting date	5/12/2006
Vine kill date	9/4/2006
Vine kill method	Sulfuric Acid
Harvest date	9/25/2006

Trial Chemical Applications

Herbicides	Insecticides	Fungicides
Dual Magnum	Leverage	Bravo WS
		Quadris

Trial Information

Trial Location	Aberdeen, Idaho
Cooperators	Stark, Bain, Chappell
Irrigation	Sprinkler
Fertilizer	260-0-0
Planting date	5/2/2006
Vine kill date	8/17/2006
Vine kill method	beat vines
Harvest date	8/28/2006

Trial Chemical Applications

Herbicides	Insecticides	Fungicides
Sencor DF	Admire	Quadris
Matrix		Dithane

Cultural Management

Trial Information

Trial Location	Corvallis, OR
Cooperators	Vales, Yilma
Irrigation	Sprinkler
Fertilizer	150-150-150-90
Planting date	5/19/2006
Vine kill date	9/10/2006
Vine kill method	Reglone
Harvest date	9/20/2006

Trial Chemical Applications

Herbicides	Insecticides	Fungicides
Matrix	Thimet	Bravo
Prowl	Provado	Dithane\Quadris

Trial Information

Trial Location	Hermiston, OR
Cooperators	Hane, Leroux
Irrigation	Center Pivot
Fertilizer	260-80-175-40-2(B)
Planting date	3/23/2006
Vine kill date	7/17/2006
Vine kill method	Enquik
Harvest date	8/3/2006

Trial Chemical Applications

Herbicides	Insecticides	Fungicides
Eptam, Matrix,	Mocap	Ridomil Gold
	Admire	Quadris
	Asana	Bravo
	Monitor	Dithane
		Omega

Trial Information

Trial Location	Klamath Falls,OR
Cooperators	Charlton
Irrigation	Sprinkler
Fertilizer	195-120-90-148S
Planting date	5/19/2006
Vine kill date	9/11/2006
Vine kill method	Reglone
Harvest date	10/4/2006

Trial Chemical Applications

Herbicides	Insecticides	Fungicides
Dual	Monitor	Maxim
Prowl	Admire	Quadris
Matrix		Dithane
	Vydate CL-V	

Cultural Management

Trial Information

Trial Location	Springlake, TX
Cooperators	Miller, Scheuring, Koym
Irrigation	Center Pivot
Fertilizer	158-28-28-20
Planting date	3/29/2006
Vine kill date	7/11/2006
Vine kill method	Mechanical
Harvest date	7/13/2006

Trial Chemical Applications

Herbicides	Insecticides	Fungicides
Roundup	Dimethoate	Tops MZ Gaucho
Dual	Avaunt	Penncozeb
Matrix	Rimon	Super Tin 80
Sencor	Oberon 2SC	Tenn-Cop 5E

Trial Information

Trial Location	Conway, WA
Cooperators	Pavek, Driscoll Knowles, Fuller, Bouchey
Irrigation	Sprinkler, 3 times
Fertilizer	53-156-246
Planting date	4/24/2006
Vine kill date	8/24/2006
Vine kill method	Defoliant
Harvest date	8/22/2006

Trial Chemical Applications

Herbicides	Insecticides	Fungicides
Eptam	Leverage	Bravo
Dencor		Previcure
Gramoxone		Ridomil
Rely		Reason

Table 1. Percent Stand and Stems/Hill

Clone	Percent Stand									Stems/hill					
	CA	CO	ID	OR			TX	WA	Mean	CO	ID	TX	WA	Mean	
	TUL	SLV	AB	COR	HRM	KLM	SPL	CON		SLV	AB	SPL	TOP		
Red/White Flesh															
1	Dk. Red Norland	74	98	97	100	98	99	98	99	95	5.2	2.3	2.2	3.3	3.3
2	Red LaSoda	77	99	98	100	100	97	100	100	96	3.5	2.2	2.0	2.4	2.5
Red/Yellow Flesh															
3	AC97521-1R/Y	89	96	100	100	100	97	100	100	98	3.8	3.3	2.8	3.5	3.4
4	CO97232-1R/Y	81	94	93	100	98	94	96	97	94	4.1	3.2	2.3	3.9	3.4
5	CO97232-2R/Y	84	95	97	100	98	98	96	95	95	3.0	2.9	2.2	3.5	2.9
6	CO97233-3R/Y	84	90	98	100	96	94	92	96	94	4.0	2.9	2.6	3.6	3.3
7	PA99P11-2	86	---	94	100	100	96	100	100	97	---	2.2	2.1	3.3	2.5
Red/Red Flesh															
8	CO97226-2R/R	84	98	97	100	100	97	98	100	97	3.7	2.7	2.1	4.0	3.1
9	POR01PG20-12	86	97	98	100	100	97	98	99	97	2.0	2.2	2.1	2.0	2.1
10	POR01PG22-1	82	---	94	100	100	93	89	100	94	---	3.5	2.2	3.9	3.2
Purple/Purple Flesh															
11	All Blue	86	100	96	100	100	99	96	100	97	3.8	3.2	2.0	3.5	3.1
12	POR01PG16-1	81	---	95	100	91	93	81	99	91	---	3.6	2.3	4.6	3.5
Yellow/Yellow Flesh															
13	Yukon Gold	77	90	94	100	99	92	91	97	93	2.2	1.3	1.7	1.9	1.8
14	A96510-4Y	57	---	98	---	100	97	88	97	90	---	1.5	1.7	1.7	
15	VC1009-1W/Y	69	99	91	100	98	97	100	100	97	3.7	2.3	2.1	2.9	2.8
16	VC1123-2W/Y	69	98	94	100	100	92	96	98	93	3.5	2.2	2.1	2.6	2.6
Mean		79	96	96	100	99	96	95	99	95	3.5	2.6	2.2	3.2	2.9

Table 2. Vine Vigor and Vine Maturity

Clone	Vine Vigor/Size						Vine Maturity								
	CO	ID	OR	TX	WA	Mean	CA	CO	ID	OR		TX	WA	Mean	
	SLV	AB	COR	SPL	CON		TUL	SLV	AB	COR	KLM	SPL	CON		
Red/White Flesh															
1	Dk. Red Norland	2.8	2.0	2.8	2.8	2.8	2.6	2.8	1.0	2.0	2.5	2.0	3.1	2.0	2.2
2	Red LaSoda	3.5	3.5	3.0	5.0	3.5	3.7	4.0	2.5	3.5	3.0	2.0	5.0	5.0	3.6
Red/Yellow Flesh															
3	AC97521-1R/Y	4.3	3.0	5.0	4.8	4.8	4.4	4.0	3.0	3.0	3.0	2.0	4.8	5.0	3.5
4	CO97232-1R/Y	3.0	1.8	3.0	3.1	3.0	2.8	2.0	1.3	1.8	2.5	1.0	3.1	2.0	2.0
5	CO97232-2R/Y	2.5	2.3	3.0	3.3	3.0	2.8	3.0	2.0	2.3	3.0	2.0	3.3	3.0	2.7
6	CO97233-3R/Y	3.0	3.3	3.0	4.0	3.0	3.3	4.0	3.5	3.3	1.0	3.0	4.0	5.0	3.4
7	PA99P11-2	---	2.8	3.0	4.3	2.0	3.0	3.3	---	2.8	3.0	4.0	4.3	4.0	3.6
Red/Red Flesh															
8	CO97226-2R/R	3.3	3.0	4.0	4.3	2.8	3.5	4.0	2.0	3.0	2.1	3.5	4.3	5.0	3.4
9	POR01PG20-12	4.3	3.3	3.0	4.5	4.3	3.9	4.3	4.0	3.3	3.0	4.0	4.5	5.0	4.0
10	POR01PG22-1	---	4.0	3.0	4.4	3.3	3.7	4.4	---	4.0	3.0	4.0	4.4	5.0	4.1
Purple/Purple Flesh															
11	All Blue	4.3	3.5	4.0	4.8	3.0	3.9	3.8	3.3	3.5	4.0	4.0	4.8	4.0	3.9
12	POR01PG16-1	---	2.5	4.0	3.4	3.0	3.2	3.3	---	2.5	3.0	4.0	3.4	4.0	3.4
Yellow/Yellow Flesh															
13	Yukon Gold	3.3	2.3	3.0	4.2	3.8	3.3	2.3	2.0	2.3	2.5	3.0	4.2	5.0	3.0
14	A96510-4Y	---	3.0	---	4.6	4.5	4.0	4.7	---	4.0	---	5.0	4.6	5.0	4.7
15	VC1009-1W/Y	4.5	3.0	3.0	5.0	4.8	4.1	5.0	3.0	4.3	3.5	4.0	5.0	5.0	4.3
16	VC1123-2W/Y	4.3	2.8	4.0	4.6	4.3	4.0	5.0	3.0	3.5	3.5	4.0	4.6	5.0	4.1
Mean		3.6	2.9	3.4	4.2	3.5	3.5	3.7	2.6	3.1	2.8	3.2	4.2	4.3	3.4

Table 3. Total Yield

Clone	Total Yield (cwt/A)									Mean	Rank
	CA	CO	ID	OR			TX	WA			
	TUL	SLV	AB	COR	HRM	KLM	SPL	CON			
Red/White Flesh											
1	Dk. Red Norland	407	447	355	356	502	472	504	345	424	2
2	Red LaSoda	598	594	428	578	703	576	601	440	565	1
Red/Yellow Flesh											
3	AC97521-1R/Y	495	519	165	544	564	520	351	348	438	2
4	CO97232-1R/Y	396	424	302	437	394	448	419	299	390	4
5	CO97232-2R/Y	392	471	296	399	405	432	414	391	400	3
6	CO97233-3R/Y	518	492	383	448	407	426	466	401	443	1
7	PA99P11-2	365	---	255	375	348	379	347	319	341	5
Red/Red Flesh											
8	CO97226-2R/R	451	366	327	365	353	375	297	316	356	2
9	POR01PG20-12	488	535	357	462	383	407	381	394	426	1
10	POR01PG22-1	285	---	117	346	203	231	142	169	213	3
Purple/Purple Flesh											
11	All Blue	478	545	238	544	442	372	334	337	411	1
12	POR01PG16-1	368	---	290	304	178	363	255	184	277	2
Yellow/Yellow Flesh											
13	Yukon Gold	409	408	295	444	468	424	523	433	426	3
14	A96510-4Y	460	---	238	---	499	557	314	391	410	4
15	VC1009-1W/Y	530	553	354	538	564	398	224	457	452	2
16	VC1123-2W/Y	553	558	311	611	599	552	438	415	505	1
Mean		450	493	294	450	438	433	376	352	411	

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

Clone	Yield and Percent U.S. No. 1s (> 4 oz) (Cwt/A & %)										
	CA	CO	ID	OR			TX	WA	Mean	Rank	
	TUL	SLV	AB	COR	HRM	KLM	SPL	CON			
Red/White Flesh											
1	Dk. Red Norland	315	362	289	283	434	367	439	191	335	2
		77	81	81	79	86	78	87	55	78	2
2	Red LaSoda	372	484	340	484	628	450	500	369	453	1
		62	81	79	84	89	78	83	84	80	1
Red/Yellow Flesh											
3	AC97521-1R/Y	327	391	50	400	292	343	174	171	269	2
		66	75	30	74	51	66	50	49	58	4
4	CO97232-1R/Y	259	289	164	329	253	279	305	149	253	4
		65	68	54	75	64	62	73	50	64	2
5	CO97232-2R/Y	285	393	219	300	202	261	292	251	275	1
		73	83	74	75	50	61	71	64	69	1
6	CO97233-3R/Y	394	301	248	290	219	105	283	293	267	3
		76	61	65	65	54	25	61	73	60	3
7	PA99P11-2	154	---	125	196	153	166	75	83	136	5
		42	---	49	52	44	44	22	26	40	5
Red/Red Flesh											
8	CO97226-2R/R	233	112	124	158	121	106	44	68	121	2
		52	31	38	43	34	28	12	21	32	2
9	POR01PG20-12	447	420	227	278	231	195	259	241	287	1
		92	80	64	60	60	48	68	61	67	1
10	POR01PG22-1	112	---	8	12	53	51	5	9	36	3
		40	---	7	3	26	22	4	5	15	3
Purple/Purple Flesh											
11	All Blue	297	309	231	244	280	166	43	93	208	1
		62	57	97	45	63	45	13	28	51	1
12	POR01PG16-1	185	---	277	74	37	83	66	38	109	2
		50	---	96	24	21	23	26	21	37	2
Yellow Flesh											
13	Yukon Gold	330	354	287	379	437	351	447	376	370	2
		81	87	97	85	29	83	85	87	79	1
14	A96510-4Y	349	---	214	---	454	329	259	331	323	3
		76	---	90	---	91	59	82	85	81	2
15	VC1009-1W/Y	414	327	327	398	425	186	131	246	307	4
		28	59	92	74	78	47	58	54	61	4
16	VC1123-2W/Y	432	478	287	485	541	267	349	312	394	1
		78	86	90	79	90	48	73	75	77	3
Mean		307	352	214	287	298	232	229	201	265	
		64	71	69	61	58	51	54	52	60	

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

Clone		Yield and Percent (< 4 oz - 10 oz) (Cwt/A & %)									Mean	Rank
		CA	CO	ID	OR			TX	WA			
		TUL	SLV	AB	COR	HRM	KLM	SPL	CON			
Red/White Flesh												
1	Dk. Red Norland	234	387	218	189	363	251	439	191	284	2	
		57	64	61	53	72	53	74	93	66	1	
2	Red LaSoda	126	423	153	230	402	220	500	369	303	1	
		21	71	36	40	57	38	71	76	51	2	
Red/Yellow Flesh												
3	AC97521-1R/Y	344	462	161	357	520	442	174	171	329	1	
		69	89	97	65	92	85	100	95	87	1	
4	CO97232-1R/Y	324	400	281	281	376	333	305	149	306	2	
		82	94	93	64	95	74	87	96	86	2	
5	CO97232-2R/Y	296	391	256	213	372	245	292	251	290	3	
		76	83	86	53	92	57	100	95	80	4	
6	CO97233-3R/Y	283	395	288	183	384	163	283	293	284	4	
		74	80	75	41	94	38	99	86	73	5	
7	PA99P11-2	247	---	240	207	343	295	75	83	213	5	
		68	---	94	55	98	78	100	92	84	3	
Red/Red Flesh												
8	CO97226-2R/R	408	365	321	189	353	262	44	68	251	2	
		90	99	98	52	100	70	80	99	86	2	
9	POR01PG20-12	325	401	291	177	352	266	259	241	289	1	
		87	75	82	38	92	65	98	97	79	3	
10	POR01PG22-1	267	---	116	213	189	221	5	9	146	3	
		91	---	99	62	93	96	100	89	90	1	
Purple/Purple Flesh												
11	All Blue	393	483	231	435	423	328	43	93	304	1	
		82	89	97	43	96	88	73	94	83	2	
12	POR01PG16-1	332	---	277	108	163	299	66	38	183	2	
		90	---	96	39	95	82	100	98	86	1	
Yellow Flesh												
13	Yukon Gold	208	219	187	152	231	197	447	376	252	3	
		51	54	63	34	49	47	73	70	55	3	
14	A96510-4Y	126	---	126	---	197	184	259	331	204	4	
		27	---	53	---	39	33	60	59	45	4	
15	VC1009-1W/Y	248	501	237	336	444	310	131	246	307	1	
		47	91	67	62	81	78	92	95	77	1	
16	VC1123-2W/Y	223	383	208	255	340	228	349	312	287	2	
		40	69	67	42	57	41	100	92	64	2	
Mean		274	401	224	235	341	265	229	201	271		
		66	80	79	50	81	64	88	89	75		

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

		Yield and Percent U.S. No. 1s >10 oz (Cwt/A & %)										
		CA	CO	ID	OR			TX	WA			
Clone		TUL	SLV	AB	COR	HRM	KLM	SPL	CON	Mean	Rank	
Red/White Flesh												
1	Dk. Red Norland	115	52	99	111	126	151	132	20	101	2	
		28	12	28	31	25	32	26	6	24	2	
2	Red LaSoda	269	126	211	242	280	254	170	94	206	1	
		45	21	49	42	40	44	28	22	36	1	
Red/Yellow Flesh												
3	AC97521-1R/Y	72	54	1	121	1	21	0	14	36	3	
		14	10	1	22	0	4	0	4	7	4	
4	CO97232-1R/Y	41	20	8	62	10	42	53	5	30	4	
		10	5	3	14	3	9	13	2	7	3	
5	CO97232-2R/Y	67	72	36	94	3	69	0	14	44	2	
		17	15	12	24	1	16	0	4	11	1	
6	CO97233-3R/Y	71	68	49	119	6	6	1	50	46	1	
		14	14	13	27	1	1	0	12	10	2	
7	PA99P11-2	21	---	7	23	0	13	0	8	10	5	
		6	---	3	6	0	3	0	3	3	5	
Red/Red Flesh												
8	CO97226-2R/R	4	0	0	2	0	1	0	0	1	2	
		1	0	0	1	0	1	0	0	1	2	
9	POR01PG20-12	90	133	28	116	4	23	24	7	53	1	
		18	25	8	25	1	6	6	2	11	1	
10	POR01PG22-1	0	---	0	0	0	0	0	0	0	3	
		0	---	0	0	0	0	0	0	0	3	
Purple/Purple Flesh												
11	All Blue	40	58	0	49	6	1	0	4	20	1	
		8	11	0	9	1	1	0	1	4	1	
12	POR01PG16-1	5	---	0	11	1	0	0	0	2	2	
		1	---	0	4	1	0	0	0	1	2	
Yellow Flesh												
13	Yukon Gold	156	171	100	231	225	182	142	126	167	2	
		38	42	34	52	48	43	27	29	39	2	
14	A96510-4Y	243	---	88	---	283	168	125	138	174	1	
		53	---	37	---	57	30	40	35	42	1	
15	VC1009-1W/Y	204	42	90	74	23	9	17	15	59	4	
		38	8	25	14	4	2	7	3	13	4	
16	VC1123-2W/Y	232	151	70	236	294	83	37	35	142	3	
		42	27	23	39	49	15	9	8	27	3	
Mean		102	79	49	99	79	64	44	33	69		
		21	16	15	21	14	13	10	8	15		

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

		Yield and Percent U.S. No. 1s 6-10 oz (Cwt/A & %)										
Clone		CA	CO	ID	OR			TX	WA	Mean	Rank	
		TUL	SLV ¹	AB	COR	HRM ²	KLM	SPL	CON			
Red/White Flesh												
1	Dk. Red Norland	142	310	141	131	97	146	172	72	151	2	
		35	69	40	37	19	31	34	21	36	1	
2	Red LaSoda	74	358	97	168	134	134	197	165	166	1	
		12	60	23	29	19	23	33	38	30	2	
Red/Yellow Flesh												
3	AC97521-1R/Y	154	337	11	204	10	163	57	61	125	2	
		31	65	7	38	2	31	16	18	26	3	
4	CO97232-1R/Y	112	269	64	180	21	123	118	48	117	3	
		28	64	21	38	5	27	28	16	28	2	
5	CO97232-2R/Y	126	321	97	145	12	110	103	110	128	1	
		32	68	33	36	3	25	25	28	31	1	
6	CO97233-3R/Y	130	233	112	130	8	29	64	128	104	4	
		25	47	29	29	2	7	14	32	23	4	
7	PA99P11-2	60	---	52	76	9	67	0	30	42	5	
		13	---	20	20	3	8	0	10	11	5	
Red/Red Flesh												
8	CO97226-2R/R	73	112	34	43	1	25	0	7	37	2	
		16	31	10	12	0	7	0	2	10	2	
9	POR01PG20-12	166	287	120	126	32	78	104	87	125	1	
		34	54	34	27	8	19	27	22	28	1	
10	POR01PG22-1	28	---	0	10	0	3	0	3	6	3	
		10	---	0	3	0	1	0	2	2	3	
Purple/Purple Flesh												
11	All Blue	123	251	29	124	44	55	27	21	84	1	
		26	46	12	23	10	15	8	6	18	1	
12	POR01PG16-1	70	---	18	54	1	16	18	2	26	2	
		19	---	6	18	1	4	7	1	8	2	
Yellow Flesh												
13	Yukon Gold	118	183	113	113	96	121	186	174	138	1	
		29	45	38	25	21	29	36	40	33	3	
14	A96510-4Y	81	---	37	---	68	11	82	134	69	4	
		18	---	74	---	14	20	26	34	31	4	
15	VC1009-1W/Y	147	285	25	208	61	71	32	90	115	3	
		28	52	99	39	11	18	14	20	35	2	
16	VC1123-2W/Y	154	327	23	191	93	113	199	129	154	2	
		28	59	84	31	16	21	27	31	37	1	
Mean		110	273	61	127	43	79	85	79	107		
		24	55	33	27	8	18	18	20	25		

¹/ 4-10oz

²/ 8-10 oz

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	CO	ID	OR			TX	WA		
Clone		TUL	SLV	AB	COR	HRM ¹	KLM	SPL	CON	Mean	Rank
Red/White Flesh											
1	Dk. Red Norland	58	----	49	51	211	70	135	107	97	1
		14	----	14	14	42	15	27	31	22	1
2	Red LaSoda	36	----	32	54	214	62	133	110	92	2
		6	----	7	9	30	11	22	25	16	2
Red/Yellow Flesh											
3	AC97521-1R/Y	101	----	38	75	281	159	117	93	123	1
		20	----	23	14	50	31	33	27	28	3
4	CO97232-1R/Y	106	----	92	87	222	113	130	96	121	2
		27	----	30	20	56	25	31	32	32	1
5	CO97232-2R/Y	92	----	86	61	187	82	189	127	118	3
		23	----	29	15	46	19	46	33	30	2
6	CO97233-3R/Y	93	----	87	41	205	70	118	115	104	4
		18	----	23	9	50	16	25	29	24	5
7	PA99P11-2	73	----	66	97	144	87	75	45	84	5
		20	----	26	26	41	18	22	14	24	4
Red/Red Flesh											
8	CO97226-2R/R	156	----	90	113	120	80	44	61	95	2
		35	----	28	31	34	21	15	19	26	2
9	POR01PG20-12	91	----	79	36	195	94	131	157	112	1
		19	----	22	8	51	23	34	40	28	1
10	POR01PG22-1	84	----	8	2	53	48	5	6	29	3
		29	----	7	1	26	21	4	4	13	3
Purple/Purple Flesh											
11	All Blue	134	----	62	76	230	110	16	68	99	1
		28	----	26	14	52	30	32	20	29	1
12	POR01PG16-1	110	----	74	9	35	67	48	36	54	2
		30	----	26	3	20	18	19	19	19	2
Yellow Flesh											
13	Yukon Gold	56	----	45	35	116	48	119	76	71	3
		14	----	15	8	25	11	23	18	16	3
14	A96510-4Y	25	----	23	----	103	51	52	59	52	4
		5	----	10	----	21	9	17	15	13	4
15	VC1009-1W/Y	63	----	76	116	341	106	82	141	132	1
		12	----	21	22	60	27	36	31	30	1
16	VC1123-2W/Y	46	----	72	58	154	70	113	148	94	2
		8	----	23	9	26	13	36	36	22	2
Mean		83	----	61	61	176	82	94	90	92	
		19	----	21	14	39	19	26	25	23	

¹/ 4-8oz

Table 9. Yield and Percent < 4 oz

Clone	Yield and Percent < 4 oz (Cwt/A & %)										
	CA	CO	ID	OR			TX	WA	Mean	Rank	
	TUL	SLV	AB	COR	HRM	KLM	SPL	CON			
Red/White Flesh											
1	Dk. Red Norland	34	77	28	7	55	35	65	141	55	1
		8	17	8	2	11	7	13	41	13	1
2	Red LaSoda	16	65	24	8	54	23	101	60	44	2
		3	11	6	1	8	4	17	14	8	2
Red/Yellow Flesh											
3	AC97521-1R/Y	89	125	112	23	229	120	178	172	131	2
		18	24	68	4	41	23	51	50	35	2
4	CO97232-1R/Y	106	131	125	14	133	96	118	144	108	4
		27	31	41	3	34	21	28	48	29	3
5	CO97232-2R/Y	78	70	73	7	173	53	122	133	89	5
		20	15	25	2	43	12	29	34	23	5
6	CO97233-3R/Y	60	162	89	12	171	64	282	96	117	3
		12	33	23	3	42	15	61	24	27	4
7	PA99P11-2	114	---	122	34	190	141	272	220	156	1
		31	---	48	9	55	17	78	69	44	1
Red/Red Flesh											
8	CO97226-2R/R	179	253	197	33	232	157	253	247	194	1
		40	69	60	9	66	42	85	78	56	2
9	POR01PG20-12	68	114	92	15	125	95	122	139	96	3
		14	21	26	3	33	23	32	35	23	3
10	POR01PG22-1	155	---	108	201	136	171	137	147	151	2
		54	---	92	58	67	74	96	87	75	1
Purple/Purple Flesh											
11	All Blue	136	232	140	35	149	163	201	244	163	1
		28	43	59	6	34	44	60	72	43	2
12	POR01PG16-1	152	---	185	45	127	215	188	143	151	2
		41	---	64	15	71	59	74	78	57	1
Yellow Flesh											
13	Yukon Gold	34	36	29	4	19	28	76	40	33	4
		8	9	10	1	4	7	14	9	8	4
14	A96510-4Y	20	---	29	---	26	23	55	39	32	3
		4	---	12	---	5	4	18	10	9	3
15	VC1009-1W/Y	38	216	62	12	111	132	93	202	108	1
		7	39	18	2	20	33	42	44	26	1
16	VC1123-2W/Y	23	56	52	6	42	45	168	103	62	2
		4	10	17	1	7	8	38	25	14	2
Mean		81	128	92	30	123	98	152	142	106	
		20	27	36	8	34	25	46	45	30	

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

		Yield and Percent No. 2s & Culls (Cwt/A & %)										
Clone		CA	CO	ID	OR			TX	WA	Mean	Rank	
		TUL	SLV	AB	COR	HRM	KLM	SPL	CON			
Red/White Flesh												
1	Dk. Red Norland	58	8	38	55	14	70	0	5	31	2	
		14	2	11	15	3	15	0	1	8	2	
2	Red LaSoda	203	45	64	106	20	103	0	11	69	1	
		34	8	15	18	3	18	0	3	12	1	
Red/Yellow Flesh												
3	AC97521-1R/Y	81	3	3	121	43	57	0	8	40	3	
		16	1	2	22	8	11	0	2	8	4	
4	CO97232-1R/Y	32	4	13	95	8	68	0	5	28	5	
		8	1	4	22	2	15	0	2	7	5	
5	CO97232-2R/Y	28	8	5	92	29	118	0	6	36	4	
		7	2	2	23	7	27	0	2	9	3	
6	CO97233-3R/Y	163	30	45	147	17	257	0	13	84	1	
		32	6	12	33	4	60	0	3	19	2	
7	PA99P11-2	96	---	8	145	4	71	0	15	48	2	
		26	---	4	39	1	68	0	5	20	1	
Red/Red Flesh												
8	CO97226-2R/R	40	1	6	175	1	112	0	1	42	2	
		9	1	2	48	0	30	0	1	11	2	
9	POR01PG20-12	74	2	38	169	27	117	0	4	54	1	
		15	1	11	37	7	29	0	1	13	1	
10	POR01PG22-1	19	---	1	132	14	9	0	13	27	3	
		7	---	1	38	7	4	0	8	9	3	
Purple/Purple Flesh												
11	All Blue	46	4	7	259	13	43	0	0	47	1	
		10	1	3	48	3	12	0	0	10	2	
12	POR01PG16-1	32	---	13	185	14	65	0	4	45	2	
		9	---	4	61	8	18	0	2	15	1	
Yellow Flesh												
13	Yukon Gold	45	17	8	62	13	45	0	17	26	4	
		11	4	3	14	3	11	0	4	6	4	
14	A96510-4Y	92	---	24	---	20	204	0	19	60	2	
		20	---	10	---	4	37	0	5	13	1	
15	VC1009-1W/Y	78	11	27	129	28	80	0	9	45	3	
		15	2	8	24	5	20	0	2	10	3	
16	VC1123-2W/Y	98	25	34	119	16	241	0	1	67	1	
		18	4	11	19	3	44	0	1	13	2	
Mean		74	13	21	133	18	104	0	8	46		
		16	3	6	31	4	26	0	3	11		

Table 11. Specific Gravity

Clone	Specific Gravity									Mean	Rank
	CA	CO	ID	OR			TX	WA			
	TUL	SLV	AB	COR	HRM	KLM	SPL	CON			
Red/White Flesh											
1	Dk. Red Norland	1.064	1.068	1.066	1.066	1.055	1.066	1.061	1.075	1.065	2
2	Red LaSoda	1.074	1.081	1.066	1.080	1.062	1.080	1.070	1.080	1.074	1
Red/Yellow Flesh											
3	AC97521-1R/Y	1.090	1.087	1.070	1.088	1.064	1.083	1.073	1.086	1.080	1
4	CO97232-1R/Y	1.079	1.081	1.074	1.077	1.070	1.077	1.070	1.084	1.077	2
5	CO97232-2R/Y	1.074	1.071	1.068	1.069	1.051	1.070	1.067	1.078	1.069	5
6	CO97233-3R/Y	1.083	1.080	1.073	1.081	1.063	1.080	1.067	1.083	1.076	3
7	PA99P11-2	1.074	---	1.071	1.079	1.060	1.071	1.072	1.080	1.072	4
Red/Red Flesh											
8	CO97226-2R/R	1.086	1.076	1.076	1.079	1.076	1.066	1.075	1.089	1.078	2
9	POR01PG20-12	1.091	1.098	1.070	1.092	1.068	1.083	1.072	1.085	1.082	1
10	POR01PG22-1	1.090	---	1.067	1.077	1.058		1.064	1.083	1.073	3
Purple/Purple Flesh											
11	All Blue	1.090	1.091	1.071	1.089	1.070	1.078	1.074	1.072	1.079	1
12	POR01PG16-1	1.078	---	1.072	1.076	1.054	1.069	1.067	1.080	1.071	2
Yellow/Yellow Flesh											
13	Yukon Gold	1.094	1.085	1.083	1.095	1.071	1.082	1.078	1.081	1.084	1
14	A96510-4Y	1.090	---	1.068	---	1.067	1.082	1.076	1.078	1.077	3
15	VC1009-1W/Y	1.087	1.089	1.066	1.092	1.063	1.076	1.070	1.075	1.077	2
16	VC1123-2W/Y	1.083	1.091	1.062	1.085	1.056	1.080	1.071	1.081	1.076	4
Mean		1.083	1.083	1.070	1.082	1.063	1.076	1.070	1.081	1.076	

Table 12. Average Tuber Size and Tubers/plant

Clone	Average Tuber Size (oz)								Tubers/plant		
	CA	ID	OR		TX	WA		Mean	TX	WA	Mean
	TUL	AB	COR	HRM	SPL	CON	SPL		CON		
Red/White Flesh											
1	Dk. Red Norland	7.2	7.2	6.4	5.9	6.2	3.9	6.1	6.9	3.3	5.1
2	Red LaSoda	10.6	8.7	8.0	7.5	7.7	5.8	8.1	6.5	2.4	4.5
Red/Yellow Flesh											
3	AC97521-1R/Y	5.2	2.6	5.6	3.7	3.0	3.4	3.9	9.9	3.5	6.7
4	CO97232-1R/Y	4.7	3.6	5.3	4.5	4.4	3.6	4.4	8.2	3.9	6.1
5	CO97232-2R/Y	5.3	4.3	6.4	3.6	4.6	4.0	4.7	7.8	3.5	5.7
6	CO97233-3R/Y	6.1	5.0	6.2	3.7	3.5	4.7	4.9	12.1	3.6	7.9
7	PA99P11-2	4.0	3.1	3.4	2.9	2.0	2.5	3.0	14.6	3.3	9.0
Red/Red Flesh											
8	CO97226-2R/R	3.9	2.9	3.3	2.6	2.0	2.5	2.9	12.4	4.0	8.2
9	POR01PG20-12	5.9	4.4	6.1	4.0	3.8	4.0	4.7	8.5	2.0	5.3
10	POR01PG22-1	2.6	1.9	2.7	2.7	1.5	2.0	2.2	10.6	3.9	7.3
Purple/Purple Flesh											
11	All Blue	4.5	2.7	4.6	3.9	2.9	2.8	3.6	10.0	3.5	6.8
12	POR01PG16-1	3.9	3.0	3.6	2.7	2.7	2.6	3.1	10.3	4.6	7.5
Yellow/Yellow Flesh											
13	Yukon Gold	7.5	6.8	9.3	8.4	6.6	6.7	7.6	7.5	1.9	4.7
14	A96510-4Y	7.4	6.5	---	8.4	6.8	6.8	7.2	4.4	1.7	3.1
15	VC1009-1W/Y	7.3	5.4	5.5	4.7	3.7	3.8	5.1	5.1	2.9	4.0
16	VC1123-2W/Y	8.6	5.3	7.5	8.0	4.7	4.8	6.5	8.1	2.6	5.4
Mean		5.9	4.6	5.6	4.8	4.1	4.0	4.9	8.9	3.2	6.0

Table 13. Tuber Shape

Clone		Tuber Shape (1 - 5 long)									L/W		
		CA	CO	ID	OR			TX	WA	Mean	OR	WA	Mean
		TUL	SLV	AB	COR	HRM	KLM	SPL	CON		HRM	CON	
Red/White Flesh													
1	Dk. Red Norland	2.3	2.0	3.0	2.4	2.2	3.2	3.1	1.5	2.5	1.2	1.1	1.2
2	Red LaSoda	1.8	2.0	3.0	2.0	2.0	3.1	3.1	1.0	2.3	1.1	1.0	1.1
Red/Yellow Flesh													
3	AC97521-1R/Y	3.0	2.0	1.3	2.0	2.2	2.8	3.5	1.0	2.2	1.2	1.3	1.3
4	CO97232-1R/Y	3.3	3.0	2.0	3.0	3.7	3.0	3.6	4.0	3.2	1.6	1.5	1.5
5	CO97232-2R/Y	2.5	2.0	2.5	1.0	2.3	2.6	2.6	4.0	2.4	1.2	1.2	1.2
6	CO97233-3R/Y	3.0	3.0	2.5	3.0	3.5	2.9	3.4	3.0	3.0	1.5	1.6	1.6
7	PA99P11-2	2.0	---	1.5	1.0	1.9	2.4	1.5	1.0	1.6	1.1	1.1	1.1
Red/Red Flesh													
8	CO97226-2R/R	1.8	1.0	1.0	1.0	1.8	2.6	2.0	1.0	1.5	1.1	1.1	1.1
9	POR01PG20-12	3.8	4.0	4.3	3.0	4.7	3.4	4.1	3.0	3.8	1.8	1.6	1.7
10	POR01PG22-1	5.0	---	5.0	5.0	5.0	4.6	4.4	4.0	4.7	2.6	2.4	2.5
Purple/Purple Flesh													
11	All Blue	5.0	3.0	3.8	5.0	4.7	3.6	4.0	2.0	3.9	1.8	1.3	1.6
12	POR01PG16-1	5.0	---	5.0	5.0	5.0	3.2	4.0	4.3	4.5	2.1	1.8	1.9
Yellow/Yellow Flesh													
13	Yukon Gold	2.5	2.0	2.5	2.0	2.7	2.2	3.2	2.0	2.4	1.3	1.2	1.3
14	A96510-4Y	3.7	---	4.0	---	3.4	4.1	4.5	3.0	3.8	1.5	1.3	1.4
15	VC1009-1W/Y	3.0	2.0	2.8	3.0	3.0	2.6	3.1	2.0	2.7	1.4	1.2	1.3
16	VC1123-2W/Y	2.3	2.0	2.8	2.0	2.7	2.9	3.0	2.0	2.5	1.3	1.4	1.4
Mean		3.1	2.3	2.9	2.7	3.2	3.1	3.3	2.4	2.9	1.5	1.4	1.4

Table 14. Skin and Flesh Color

Clone	Skin Color (1 - 5 dark)										Flesh Color (1 - 5 dark)								
	CA	CO	ID	OR			TX	WA	Mean	CA	CO	ID	OR			TX	Mean		
	TUL	SLV	AB	COR	HRM	KLM	SPL	CON		TUL	SLV	AB	COR	HRM	KLM	SPL			
Red/White Flesh																			
1	Dk. Red	Norland	4.0	2.0	3.0	4.0	3.0	3.7	3.9	3.0	3.3	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.1
2	Red	LaSoda	2.5	2.0	2.8	3.0	2.6	3.8	3.5	3.0	2.9	1.0	1.0	1.0	1.0	---	1.3	1.4	1.1
Red/Yellow Flesh																			
3	AC97521-1R/Y		2.5	3.0	3.0	4.0	2.0	3.7	3.3	3.5	3.1	3.3	4.0	3.5	3.0	2.0	3.2	3.5	3.2
4	CO97232-1R/Y		2.8	2.0	2.5	3.0	2.1	3.9	2.8	3.0	2.8	3.3	4.0	4.0	3.0	1.8	3.4	3.3	3.3
5	CO97232-2R/Y		2.0	2.0	2.5	4.0	1.6	3.2	2.5	3.0	2.6	3.0	4.0	3.5	4.0	2.0	3.3	3.7	3.4
6	CO97233-3R/Y		3.0	4.0	3.8	4.0	3.3	4.0	4.0	4.0	3.8	3.8	4.0	3.8	4.0	2.0	3.0	3.1	3.4
7	PA99P11-2		2.0	---	1.8	2.0	---	3.2	1.5	2.0	2.1	3.5	---	4.5	4.0	2.8	4.1	3.3	3.7
Red/Red Flesh																			
8	CO97226-2R/R		5.0	5.0	3.8	5.0	4.0	4.4	4.5	5.0	4.6	5.0	5.0	4.8	5.0	4.0	4.9	3.0	4.5
9	POR01PG20-12		4.0	5.0	4.5	5.0	4.3	4.4	4.0	5.0	4.5	2.8	3.0	3.0	4.0	1.9	2.8	2.5	2.9
10	POR01PG22-1		4.6	---	4.5	5.0	3.8	4.4	4.5	5.0	4.5	4.0	---	4.0	4.0	2.0	4.1	2.9	3.5
Purple/Purple Flesh																			
11	All Blue		5.0	5.0	5.0	5.0	3.5	5.0	5.0	5.0	4.8	4.0	3.0	4.8	4.0	4.0	4.9	3.5	4.0
12	POR01PG16-1		5.0	---	5.0	5.0	4.0	5.0	4.5	5.0	4.8	5.0	---	5.0	5.0	5.0	5.0	4.5	4.9
Yellow/Yellow Flesh																			
13	Yukon Gold		2.0	1.0	2.0	1.0	---	2.6	1.0	2.0	1.7	3.0	3.0	3.0	3.0	2.0	2.5	2.5	2.7
14	A96510-4Y		2.7	---	3.0	---	3.0	3.3	3.8	2.0	3.0	2.0	---	2.8	---	1.0	2.2	1.5	1.9
15	VC1009-1W/Y		2.0	1.0	3.3	1.0	---	2.7	1.0	2.0	1.9	3.8	4.0	4.0	3.0	2.0	3.1	2.8	3.2
16	VC1123-2W/Y		2.0	1.0	1.8	1.0	---	3.0	1.5	2.0	1.8	3.5	4.0	3.5	4.0	2.4	2.9	2.8	3.3
Mean			3.2	2.8	3.3	3.5	3.1	3.8	3.2	3.4	3.3	3.3	3.3	3.5	3.5	2.4	3.2	2.9	3.1

Table 15. Eye Depth, Skinning and External Defects

Clone		Eye Depth	Skinning	External Defects (1=severe; 5=none)				
				Growth Cracks	Knobs	Shatter Bruise	Scab ID	P. Scab HRM
Red/White Flesh								
1	Dk. Red Norland	3.2	3.6	4.5	4.0	4.8	4.3	5.0
2	Red LaSoda	1.9	2.8	4.2	4.3	4.5	3.8	5.0
Red/Yellow Flesh								
3	AC97521-1R/Y	3.9	3.5	4.3	3.3	4.6	4.5	4.9
4	CO97232-1R/Y	3.9	3.1	4.3	4.1	4.8	4.1	5.0
5	CO97232-2R/Y	3.7	3.8	4.6	4.2	5.0	4.5	5.0
6	CO97233-3R/Y	4.0	3.1	4.2	4.2	4.8	4.6	5.0
7	PA99P11-2	2.1	2.5	4.4	4.1	5.0	4.8	5.0
Red/Red Flesh								
8	CO97226-2R/R	2.8	4.1	4.3	4.2	5.0	4.9	5.0
9	POR01PG20-12	3.4	2.9	4.5	4.9	5.0	4.6	5.0
10	POR01PG22-1	3.7	3.2	5.0	4.0	4.3	4.9	5.0
Purple/Purple Flesh								
11	All Blue	3.1	3.5	4.3	4.3	5.0	4.9	5.0
12	POR01PG16-1	3.8	4.2	5.0	5.0	5.0	4.9	5.0
Yellow/Yellow Flesh								
13	Yukon Gold	3.7	3.8	4.3	4.5	5.0	4.4	5.0
14	A96510-4Y	3.7	2.2	4.7	4.6	4.8	4.9	5.0
15	VC1009-1W/Y	3.7	2.2	4.1	4.4	5.0	4.7	4.8
16	VC1123-2W/Y	3.8	4.1	4.2	4.0	5.0	4.6	5.0
Mean		3.4	3.3	4.4	4.3	4.9	4.6	5.0

Table 16. Internal Defects

Clone	% HH			Blackspot Bruise CO 1-5=none	
	BC	IBS	VD		
Red/White Flesh					
1	Dk. Red Norland	5	1	1	5.0
2	Red LaSoda	16	2	1	4.8
Red/Yellow Flesh					
3	AC97521-1R/Y	4	1	0	4.3
4	CO97232-1R/Y	1	0	0	4.6
5	CO97232-2R/Y	2	3	1	5.0
6	CO97233-3R/Y	2	1	1	5.0
7	PA99P11-2	5	0	0	----
Red/Red Flesh					
8	CO97226-2R/R	0	1	6	----
9	POR01PG20-12	3	1	4	----
10	POR01PG22-1	0	0	0	----
Purple/Purple Flesh					
11	All Blue	0	0	0	----
12	POR01PG16-1	1	0	0	----
Yellow/Yellow Flesh					
13	Yukon Gold	5	2	1	4.8
14	A96510-4Y	1	0	1	5.0
15	VC1009-1W/Y	5	0	1	5.0
16	VC1123-2W/Y	11	1	1	4.8
Mean		3	0	0	---

Table 17. Fresh Market Quality (Merit Scores)

Clone		CO	ID	OR		TX	Mean	Rank
		SLV	AB	COR	HRM	SPL		
Red/White Flesh								
1	Dk. Red Norland	1.0	3.3	3.0	2.5	4.0	2.8	1
2	Red LaSoda	1.0	1.5	5.0	1.0	3.5	2.4	2
Red/Yellow Flesh								
3	AC97521-1R/Y	5.0	2.5	5.0	2.0	3.0	3.5	1
4	CO97232-1R/Y	2.0	3.5	5.0	2.0	3.3	3.2	3
5	CO97232-2R/Y	3.0	4.8	4.0	1.5	3.3	3.3	2
6	CO97233-3R/Y	3.0	2.8	4.0	2.0	3.1	3.0	4
7	PA99P11-2	----	2.8	2.0	1.0	2.1	2.0	5
Red/Red Flesh								
8	CO97226-2R/R	5.0	3.5	1.0	3.0	2.8	3.1	1
9	POR01PG20-12	4.0	3.5	1.0	2.0	3.0	2.7	3
10	POR01PG22-1	----	1.5	5.0	2.0	3.1	2.9	2
Purple/Purple Flesh								
11	All Blue	5.0	2.5	2.0	3.0	2.3	3.0	1
12	POR01PG16-1	----	2.3	5.0	1.0	2.2	2.6	2
Yellow/Yellow Flesh								
13	Yukon Gold	2.0	3.0	5.0	4.0	3.8	3.6	1
14	A96510-4Y	----	3.8	----	1.0	2.3	2.4	4
15	VC1009-1W/Y	5.0	2.8	5.0	1.0	2.8	3.3	2
16	VC1123-2W/Y	4.0	2.5	5.0	1.5	2.7	3.1	3
Mean		3.3	2.9	3.8	1.9	3.0	3.0	

Table 18. Foliar & Tuber Late Blight and Tuber Composition

Clone	Aberdeen, Idaho									
	L. Blight		Tuber blight ²	Mean						
	AUDPC	Foliar ¹		Solids	Protein ³	Dextrose ⁴	Sucrose ⁴	Vitamin C ⁵	TGA ⁵	
Red/White Flesh										
1	Dk. Red Norland	1279	9.0	25	18.0	5.3	0.032	0.157	27.6	1.5
2	Red LaSoda	1241	8.8	33	19.6	5.3	0.080	0.162	26.4	1.4
Red/Yellow Flesh										
3	AC97521-1R/Y	571	5.8	8	17.9	5.5	0.104	0.301	18.2	0.8
4	CO97232-1R/Y	1328	8.8	8	18.3	4.5	0.010	0.153	28.7	2.2
5	CO97232-2R/Y	1204	9.8	33	18.0	5.0	0.010	0.115	27.5	5.8
6	CO97233-3R/Y	1131	8.5	15	20.1	5.4	0.023	0.130	25.2	2.0
7	PA99P11-2	990	7.8	38	18.3	4.6	0.023	0.207	27.7	5.1
Red/Red Flesh										
8	CO97226-2R/R	1252	9.0	20	18.4	4.7	0.033	0.294	14.4	8.8
9	POR01PG20-12	1091	8.0	33	18.9	4.8	0.005	0.097	24.0	1.0
10	POR01PG22-1	1122	8.0	5	18.5	4.8	0.072	0.232	19.1	2.9
Purple/Purple Flesh										
11	All Blue	1080	8.3	40	18.4	4.0	0.096	0.119	21.8	4.6
12	POR01PG16-1	1189	9.0	52	18.1	3.9	0.064	0.209	26.4	2.0
Yellow/Yellow Flesh										
13	Yukon Gold	1306	8.8	23	18.1	5.2	0.022	0.209	38.3	5.2
14	A96510-4Y	----			19.0	5.3	0.111	0.178	21.6	5.3
15	VC1009-1W/Y	687	6.8	3	18.8	5.4	0.051	0.166	27.7	2.6
16	VC1123-2W/Y	1089	7.8	45	16.7	5.0	0.025	0.149	18.1	1.5
Mean			8.3	25	18.4	4.9	0.05	0.18	24.5	3.3

^{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%

Ratings occurred on 10/6/06. Vales & Yilma; Corvallis, OR.

^{2/} % of late blight infected tubers at harvest (10 randomly selected tubers). Mosley & Yilma; Corvallis, OR.

^{3/} % Dry Weight Basis

^{4/} % Fresh Weight Basis

^{5/} % Fresh Weight Basis (mg/100g)

Table 19. Culinary Tuber Quality and General Notes

Clone	Washington Culinary Quality ¹				Rank	
	Boiling	Baking	Micro	Total		
Red/White Flesh						
1	Dk. Red Norland	19.5	19.5	18.7	57.7	1
2	Red LaSoda	18.8	20.3	18.3	57.5	2
Red/Yellow Flesh						
3	AC97521-1R/Y	20.2	22.5	19.3	62.0	1
4	CO97232-1R/Y	17.6	21.0	16.8	55.4	4
5	CO97232-2R/Y	18.0	20.8	16.7	55.5	3
6	CO97233-3R/Y	17.2	19.7	19.8	56.7	2
7	PA99P11-2	17.4	19.3	17.3	54.1	5
Red/Red Flesh						
8	CO97226-2R/R	19.0	19.1	17.6	55.7	2
9	POR01PG20-12	20.0	20.4	19.7	60.1	1
10	POR01PG22-1	17.6	15.9	18.5	52.0	3
Purple/Purple Flesh						
11	All Blue	17.2	19.3	18.3	54.8	1
12	POR01PG16-1	18.5	15.0	17.6	51.1	2
Yellow/Yellow Flesh						
13	Yukon Gold	22.3	21.8	17.5	61.6	1
14	A96510-4Y	20.8	20.1	17.8	58.6	3
15	VC1009-1W/Y	18.8	21.1	16.9	56.8	4
16	VC1123-2W/Y	20.0	20.2	19.8	60.0	2
Mean		19.1	19.6	18.4	57.1	

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

Table 20. Summary

Clone	Field Data				Yield Qualities						Quality		Disposition 2007	
	% Stand	HH/ BC	Vine Size	Vine Mat.	Total Yield	% 4-10	% >10	% <4	Yield <4-10 oz	% <4-10 oz	Specific gravity	Fresh Merit		
Red/White Flesh														
1	Dk. Red Norland	95	5.5	2.6	2.2	424	56	24	13	239	56	1.065	2.8	Check
2	Red LaSoda	96	16.4	3.7	3.6	565	45	36	8	253	45	1.074	2.4	Check
Red/Yellow Flesh														
3	AC97521-1R/Y	98	4.2	4.4	3.5	438	50	7	35	220	50	1.080	3.5	Return
4	CO97232-1R/Y	94	1.0	2.8	2.0	390	57	7	29	221	57	1.077	3.2	Return
5	CO97232-2R/Y	95	2.4	2.8	2.7	400	33	11	23	131	33	1.069	3.3	Return
6	CO97233-3R/Y	94	2.2	3.3	3.4	443	47	12	27	209	47	1.076	3.0	Return
7	PA99P11-2	97	5.2	3.0	3.6	341	30	3	44	103	30	1.072	2.0	Drop
Red/Red Flesh														
8	CO97226-2R/R	97	0.0	3.5	3.4	356	34	1	56	122	34	1.078	3.1	Return
9	POR01PG20-12	97	2.8	3.9	4.0	426	54	11	23	230	54	1.082	2.7	Return
10	POR01PG22-1	94	0.0	3.7	4.1	213	14	0	75	29	14	1.073	2.9	Return
Purple/Purple Flesh														
11	All Blue	97	0.3	3.9	3.9	411	41	4	43	170	41	1.079	3.0	Check
12	POR01PG16-1	91	1.3	3.2	3.4	277	25	1	57	68	25	1.071	2.6	Return
Yellow/Yellow Flesh														
13	Yukon Gold	93	4.8	3.3	3.0	426	48	39	8	204	48	1.084	3.6	Check
14	A96510-4Y	90	0.6	4.0	4.7	410	27	42	9	111	27	1.077	2.4	Return
15	VC1009-1W/Y	97	4.9	4.1	4.3	452	53	13	26	238	53	1.077	3.3	Graduate
16	VC1123-2W/Y	93	11.5	4.0	4.1	505	48	27	14	243	48	1.076	3.1	Drop
Mean		95	3.9	3.5	3.5	486	41	15	31	174	41	1.071	3.1	

Table 21. 3-Year Summary of Graduating Entries

Clone	Yield (cwt/a)						Total Yield (cwt/a)	Spec. Grav.	% HH & BC	Quality Rating ¹	Culinary Quality ²
	B's	4-6 oz	6-10 oz	Total	> 10	Culls					
Red/White Flesh											
1 Yukon Gold	25	76	141	242	142	26	410	1.082	3	3.4	63.1
2 VC1009-1W/Y	106	132	148	386	69	44	499	1.074	3	3.1	53.2

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

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

Prepared January 2007 by
Brian A. Charlton
Assistant Professor
brian.a.charlton@oregonstate.edu

Oregon State University
Klamath Basin Research
and Extension Center

Washburn Site -
6941 Washburn Way
Klamath Falls, OR 97603
541/883-4590; Fax: 541/883-4596
<http://oregonstate.edu/dept/kes/>

Vandenberg Site -
3328 Vandenberg Road
Klamath Falls, OR 97601
541/883-7131; Fax: 541/883-4582
<http://extension.oregonstate.edu/klamath/>