

2004
WESTERN REGIONAL
POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS Cooperating

California

Colorado

Idaho

Oregon

Texas

Washington

2004 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

TABLE

- 1 Locations, Cooperators, and Cultural Information
- 2 Clone, Parentage, Flower Color, Seed and Trial Information, Stand, Tuber and Vine Characteristics
- 3 Total Yield (CWT/A) - Early & Late Harvest
- 4 Yield of U.S. No. 1's (CWT/A & %) - Early & Late Harvest
- 5 Yield of U.S. No. 1's Over 10/12 oz. (CWT/A & %) - Early & Late Harvest
- 6 Yield of Tubers Under 4 oz. (CWT/A & %) - Early & Late Harvest
- 7 Specific Gravity - Early & Late Harvest
- 8 Average Tuber Size, and Tuber Shape
- 9 External Defects - Growth Cracks, 2nd Growth, Shatter Bruise, and Scab
- 10 Internal Defects - Hollow Heart/Brown Center, Internal Brown Spot, Vascular Discoloration, Blackspot
- 11 French Fry Color and Percent Sugar Ends
- 12 Disease Evaluations - Aberdeen, Hermiston, Corvallis, and Prosser, and Metribuzin Reaction
- 13 Solids, Dextrose, Sucrose, Protein, Vitamin C, and Glycoalkaloids - Aberdeen
- 14 Merit Scores
- 15 Entry Summary
- 16 Three Year Summary of Graduating Entries

Western Regional Potato Variety Trial Reports (1998-2004) can be accessed at the following websight:

www.ars.usda.gov/main/docs.htm?docid=3019

Compiled by Brian Schneider
Revision - 8/4/2005

TABLE 1: 2004 Western Regional Potato Variety Trial - LOCATIONS, COOPERATORS, AND CULTURAL INFORMATION

No.	Locations	Cooperators	Trial	Irrigation	Fertilizer N-P-K-S(lb/A)	Planting Date	Harvest Date	Days to Vine Kill	Days to Harvest	Herbicides	Pesticides Applied ¹		
											Insecticides	Fungicides	
1	Tulelake California (TUL)	D. Kirby, H. Carlson	Late	Sprink.	306-234-279-9	8-May	7-Oct	136	152	Sencor Matrix		Maxim 4FS, Blocker Curzate, Bravo Dithane	
									Frost 22 degrees				
2	San Luis Valley Colorado (SLV)	D. Holm, P. Naranjo	Late	Pivot	80-70-40-18+	6-May	20-Sep	119	137	Dual Magnum	Permethrin 3.2 EC Endosulfan 3 EC	Polyram 80 DF	
									Sulfuric Acid				
3	Aberdeen Idaho (AB)	S. Love, R. Novy, J. Whitworth, T. Salais P. Bain, B. Schneider	Late	Sprink.	200-50-40	26-Apr	20-Sep	130	147	Sencor DF Spartan	Admire	Bravo Weather Stik Equus, Curzate Dithane DF Rainshield	
									Reglone				
4	Kimberly Idaho (KIM)	S. Love, R. Novy, J. Whitworth, T. Salais P. Bain, B. Schneider	Late	Sprink.	146-100-100	29-Apr	11-Oct	138	165	Eptam 7E Sencor 4 Matrix	Temik Success	Terranil 90 DF Dithane F45 Omega 500F	
									Mechanical				
5	Hermiston Oregon (HRM)	D. Hane, L. Leroux	Early	Pivot	260-80-250-40+	24-Mar	26-Jul	111	124	Eptam	Mocap, Admire	Vapam, Quadris	
			Late	Pivot	330-80-500-40+	6-Apr	21-Sep	155	168	Matrix	Asana, Monitor	Ridomil Gold, Bravo	
									EnQuik EnQuik				
6	Klamath Falls Oregon (KLM)	K. Rykbost, B. Charlton	Late	Sprink.	160-80-80-140	25-May	29-Sep	107	127	Dual II Magnum Prowl	Admire, Monitor Telone, Vapam	Tops 2.5D, Quadris Ridomil Gold/Bravo Dithane	
									Reglone				
7	Malheur Oregon (MAL)	C. Shock, E. Eldredge	Early	Sprink.	163-94-220-80+	13-Apr	27-Aug	125	136	Prowl+Dual	Gaicho	Tops-MZ,	
			Late	Sprink.	163-94-220-80+	19-Apr	5-Oct	155	169	Matrix		Ridomil Gold/Bravo	
									Mech. Mech.				
8	Springlake Texas (SPR)	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	235-25-25	15-Mar	3-Aug	126	141	Roundup, Dual Matrix, Treflan	Dimethoate	Tops MZ, Gaicho Quadris, Bravo	
									Gramoxone Max				
9	Othello (OTH)	M. Pavek, E. Driskill,	Early	Sprink.	218-290-120	5-Apr	9-Aug	116	126	Matrix, Prowl	Platinum, Vapam	Bravo, Dithane, Quadris	
			Late	Pivot	229-145-128	23-Apr	17-Sep	145	147	Sencor	Comite, Monitor	Echo, Endura	
								Mech.	Mech.	Asana	Omega, Dithane		

¹**Bold indicates use in both early and late trials.**

TABLE 2: 2004 Western Regional Potato Variety Trial - CLONE, PARENTAGE, FLOWER COLOR, ENTRY SUBMISSION, USE, TRIAL, YEARS IN TRIAL, SEED SOURCE, STAND, TUBER AND VINE CHARACTERISTICS

No.	Clone	Parents	Flower Color ¹	Entered by	Use	Year in Trial	Seed Trial	Stand ²	Tuber and Vine Descriptions ²									
									Tuber Shape (1-5) ³	Tuber Skin (1-5) ⁴	Vine Size (1-5) ⁵	Vine Maturity (1-5) ⁶	Stems/Hill					
1	Ranger Russet	Butte A6595-3	RP	Ck	Dual	E/L	-	OR	99	Long	4.6	Med Russet	3.4	Med-large	3.4	Med--late	4.0	1.8
2	Russet Burbank	Early Rose ?	W	Ck	Dual	E/L	-	OR	98	Long	4.4	Med Russet	3.4	Med-large	3.3	Med--late	3.7	1.8
3	Russet Norkotah	ND9687-5Russ ND9526-4Russ	W	Ck	Fresh	E/L	-	OR	96	Obl-Lng	4.0	Med Hvy Rus	4.3	Small	2.3	Early	1.9	2.0
4	Shepody	Bake-King F58050	RP	Ck	Proc	E	-	OR	100	Oblong	3.3	White	1.6	Large	4.1	Late*	4.4	1.5
5	A92030-5	A8603-20 A83043-12	W	ID	Dual	E/L	2	OR	97	Obl-Lng	3.6	Med Hvy Rus	4.5	Med-large	3.3	Medium	3.2	1.5
6	A92294-6	A86332-7 Summit Russet	W	ID	Proc	E/L	2	OR	97	Obl-Lng	4.0	White	1.5	Med-large	3.6	Late	4.2	2.8
7	A9304-3	A83043-12 A7961-1	W	ID	Dual	E/L	3	OR	97	Long	4.6	Med Russet	4.0	Med-large	3.2	Med--late	3.6	1.8
8	A9305-10	A83043-12 A85103-3	RP	ID	Dual	E/L	3	OR	98	Oblong	3.3	Light Russet	2.6	Med-large	3.6	Late	4.1	1.9
9	A93157-6LS	A87149-4 A88108-7	W	ID	Dual	E/L	2	OR	98	Oblong	3.5	Med Hvy Rus	4.2	Med-large	3.4	Late	4.1	2.2
10	A95074-6	Agria Summit Russet	W	ID	Dual	E/L	1	OR	96	Obl-Lng	3.7	Light Russet	2.5	Med-large	3.8	Late	4.5	1.9
11	A95109-1	A8893-1 Summit Russet	W	ID	Dual	E/L	1	OR	97	Obl-Lng	3.7	Med Russet	3.8	Medium	3.0	Med--late	3.7	2.0
12	AC92009-4Ru	A8343-12 A8784-3	W	CO	Dual	E/L	3	OR	97	Obl-Lng	3.6	Med Hvy Rus	4.1	Med-large	3.1	Med--late	3.7	1.3
13	AC93026-9Ru	A8823-1 A86102-6	W	CO	Fresh	E/L	2	OR	97	Long	4.4	Med Russet	4.0	Med-large	3.4	Late	4.3	1.7
14	AO96160-3	A89384-10 A89512-3	RP	OR	Dual	E/L	1	OR	97	Obl-Lng	3.7	Med Hvy Rus	4.4	Med-large	3.3	Med--late	4.0	1.7
15	ATX91137-1Ru	A81473-2 A8343-12	LAV	TX	Dual	E/L	1	CO	98	Obl-Lng	3.8	Med Hvy Rus	4.3	Small	2.5	Med Early	2.8	1.9
16	ATX92230-1Ru	A86103-13 Gem Russet	W	TX	Dual	E/L	3	OR	93	Oblong	3.3	Med Russet	3.9	Med-large	3.3	Med--late	3.6	1.7
17	CO93001-11RU	A79141-3 Silverton Russet	W	CO	Dual	E/L	2	CO	98	Obl-Lng	3.6	Light Russet	2.9	Small	2.5	Early	2.2	2.6
18	CO94035-15RU	AO80432-1 Silverton Russet	W	CO	Dual	E/L	1	CO	97	Obl-Lng	3.7	Med Hvy Rus	4.2	Med-large	3.4	Med--late	3.9	2.3
19	PA95A11-14	A8259-5 A77715-6	W	WA	Fresh	E/L	2	OR	97	Obl-Lng	3.6	Med Russet	3.6	Small	2.5	Med Early	2.6	2.0
20	TC1675-1Ru	Russet Nugget Lemhi Russet	W	CO	Dual	E/L	3	OR	96	Oblong	3.5	Med Hvy Rus	4.2	Med-large	3.3	Med--late	3.7	2.1

¹ P=Purple, R=Red, W=White, LAV=Lavender

² Numerical values are means of all trial locations.

³ 1.0-2.0=Round, 2.1-2.5=Round-Oblong, 2.6-3.5=Oblong, 3.6-4.0=Oblong-Long, 4.1-5.0=Long

⁴ 1.0-2.0=White, 2.1-3.0=Light Russet, 3.1-4.0=Medium Russet, 4.1-4.5=Medium Heavy Russet, 4.6-5.0 Heavy Russet

⁵ 1.0-2.5=Small, 2.6-3.0=Medium, 3.1-4.0=Medium-Large, 4.1-4.5=Large, 4.6-5.0=Very Large

⁶ 1.0-2.5=Early, 2.6-3.0=Medium-Early, 3.1-3.5=Medium, 3.6-4.0= Medium-Late, 4.1-4.5=Late, 4.6-5.0=Very Late

*Shepody vine maturity: 2 locations (Springlake, TX, & Othello, WA). WA early trial maturity ratings very high

TABLE 3: 2004 Western Regional Potato Variety Trial - TOTAL YIELD (CWT/A) - EARLY AND LATE HARVEST

No. Clone	Total Yield - Early Harvest (CWT/A)					Total Yield - Late Harvest (CWT/A)												
	OR		TX	WA	Entry	CA	CO	ID		OR			WA	Entry				
	HRM	MAL	SPR	OTH	Mean/Rank	TUL	SLV	AB	KIM	HRM	KLM	MAL	OTH	Mean/Rank				
1 RANGER R.	623	431	388	518	490	9	abcd	446	467	542	439	881	536	485	601	550	7	bcd
2 R. BURBANK	611	446	368	505	482	12	abcd	413	563	490	484	1056	635	460	543	580	4	bc
3 R. NORKOTAH	524	290	437	533	446	15	bcd	346	399	290	385	579	522	313	499	417	19	f
4 SHEPODY	654	499	374	564	523	3	abc	.	.	.	.	.	.	454	.	-	-	
5 A92030-5	634	314	360	496	451	14	abcd	325	509	456	504	721	526	342	445	479	16	def
6 A92294-6	700	546	411	514	543	1	a	506	599	654	562	1206	682	658	627	687	1	a
7 A9304-3	658	435	376	572	510	6	abcd	364	540	471	554	848	588	422	517	538	9	bcd
8 A9305-10	627	496	350	585	515	5	abcd	464	543	585	490	1028	581	547	516	594	3	bc
9 A93157-6LS	636	480	339	569	506	7	abcd	485	507	542	482	1120	575	567	521	600	2	b
10 A95074-6	619	454	273	431	444	16	bcd	389	528	565	464	891	611	504	411	545	8	bcd
11 A95109-1	616	383	418	522	485	11	abcd	375	490	446	403	898	636	404	507	520	12	bcde
12 AC92009-4Ru	508	367	327	523	431	18	d	348	446	378	347	749	471	381	451	446	18	ef
13 AC93026-9Ru	651	496	334	594	519	4	abc	408	554	400	484	1025	528	466	554	552	6	bcd
14 AO96160-3	647	416	354	534	488	10	abcd	401	543	524	462	929	626	497	513	562	5	bcd
15 ATX91137-1Ru	591	440	450	631	528	2	ab	483	471	450	457	673	557	477	611	522	11	bcde
16 ATX92230-1Ru	623	429	411	579	510	6	abcd	421	442	513	371	890	568	413	490	513	13	cde
17 CO93001-11RU	522	415	258	568	441	17	cd	290	434	396	470	595	537	373	493	449	17	ef
18 CO94035-15RU	571	459	285	583	475	13	abcd	454	424	367	375	1041	510	459	573	525	10	bcde
19 PA95A11-14	559	440	436	623	515	5	abcd	498	470	281	365	685	572	427	672	496	15	de
20 TC1675-1Ru	624	473	381	497	494	8	abcd	372	560	380	394	883	514	457	531	511	14	cde
Location Means	610	436	366	547	490			410	499	459	447	879	567	455	530	531		

Means followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test.

TABLE 4: 2004 Western Regional Potato Variety Trial - YIELD OF U.S. #1'S [CWT/A (upper) and % (lower)] - EARLY AND LATE HARVEST

No. Clone	U.S. No. 1's - Late Harvest (CWT/A) and %																	
	OR		TX	WA	Entry		CA	CO	ID		OR	WA	Entry					
	HRM	MAL	SPR	OTH	Mean/Rank		TUL	SLV	AB	KIM	HRM	KLM	MAL	OTH	Mean/Rank			
1 RANGER R.	524	325	250	452	388	10	ab	356	417	507	306	732	366	319	526	441	9	abcd
	84	75	64	87	78	10		80	89	94	70	83	68	66	88	80	6	
2 R. BURBANK	422	228	29	344	256	17	c	276	457	341	295	565	435	225	388	373	16	cdef
	69	51	8	68	49	15		67	81	70	61	54	69	49	72	65	12	
3 R. NORKOTAH	392	256	361	465	369	14	ab	257	343	232	301	438	430	265	384	331	19	f
	75	88	83	87	83	7		74	86	80	78	76	82	85	77	80	6	
4 SHEPODY	612	268	63	494	360	15	ab	.	.	.	.	.	.	202	.	-	-	
	94	54	17	88	63	14		.	.	.	.	.	.	44	.	-	-	
5 A92030-5	566	281	262	427	384	12	ab	226	439	379	440	636	441	285	386	404	14	bcdef
	89	89	73	86	84	6		70	86	83	87	88	84	83	87	83	5	
6 A92294-6	557	402	201	406	391	9	ab	345	487	398	330	833	515	425	468	475	3	ab
	80	74	49	79	70	13		68	81	61	59	69	76	65	75	69	11	
7 A9304-3	572	366	232	461	408	6	ab	283	502	409	489	716	439	312	458	451	8	abc
	87	84	62	81	78	10		78	93	87	88	84	75	74	89	83	5	
8 A9305-10	520	400	287	503	427	5	ab	355	474	426	435	809	485	415	369	471	5	ab
	83	81	82	86	83	7		77	87	73	89	79	83	76	71	79	7	
9 A93157-6LS	540	406	294	486	432	4	ab	414	412	465	394	948	468	435	445	498	1	a
	85	85	87	86	85	5		85	81	86	82	85	81	77	85	83	5	
10 A95074-6	518	369	172	337	349	16	b	281	423	369	383	776	449	382	302	421	13	abcde
	84	81	63	78	76	11		72	80	65	83	87	73	76	73	76	9	
11 A95109-1	550	354	375	478	439	3	ab	302	461	417	376	829	578	339	472	472	4	ab
	89	92	90	92	91	2		81	94	93	93	92	91	84	93	90	1	
12 AC92009-4Ru	466	348	293	472	395	8	ab	287	392	357	321	647	436	356	383	397	15	bcdef
	92	95	90	90	92	1		82	88	94	93	86	93	93	85	89	2	
13 AC93026-9Ru	554	337	145	489	381	13	ab	322	482	298	389	727	448	282	442	424	12	abcde
	85	68	43	82	70	13		79	87	75	80	71	85	60	80	77	8	
14 AO96160-3	483	375	260	426	386	11	ab	324	490	480	404	868	533	434	378	489	2	a
	75	90	73	80	79	9		81	90	92	87	93	85	87	74	86	3	
15 ATX91137-1Ru	515	396	401	557	467	1	a	429	431	389	399	610	482	437	552	466	6	ab
	87	90	89	88	89	3		89	92	86	87	91	87	92	90	89	2	
16 ATX92230-1Ru	527	391	362	516	449	2	ab	352	396	464	303	765	467	358	382	436	10	abcde
	85	91	88	89	88	4		84	90	90	82	86	82	87	78	85	4	
17 CO93001-11RU	401	318	193	486	349	16	b	233	385	335	391	440	434	292	345	357	18	ef
	77	77	75	86	78	10		80	89	85	83	74	81	78	70	80	6	
18 CO94035-15RU	451	371	190	524	384	12	ab	379	391	321	303	964	422	344	512	454	7	abc
	79	81	67	90	79	9		83	92	87	81	93	83	75	89	85	4	
19 PA95A11-14	390	311	340	483	381	13	ab	399	348	139	278	451	410	299	549	359	17	def
	70	71	78	78	74	12		80	74	49	76	66	72	70	82	71	10	
20 TC1675-1Ru	507	405	256	422	398	7	ab	286	480	312	326	764	427	377	435	426	11	abcde
	81	86	67	85	80	8		77	86	82	83	87	83	82	82	83	5	
Location Means	503	345	248	461	390			321	432	370	361	711	456	339	430	429		
	82	80	67	84	79			78	87	81	81	81	81	75	81	81		

Means followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test.

TABLE 5: 2004 Western Regional Potato Variety Trial - YIELD > 10/12 OZ [CWT/A (upper) & % (lower)] - EARLY AND LATE HARVEST

U.S. No. 1's > 10/12 OZ - Early Harvest								U.S. No. 1's > 10/12 OZ - Late Harvest (CWT/A) and %										
No. Clone	OR		TX	WA	Entry			CA	CO	ID		OR			WA	Entry		
	HRM	MAL	SPR	OTH	Mean	Rank	AB			KIM	HRM	KLM	MAL	OTH		Mean	Rank	
1 RANGER R.	70	113	65	99	87	11	abcde	171	166	173	87	352	173	178	103	175	6	abcd
	11	26	17	19	18	10		38	36	32	20	40	32	37	17	31	5	
2 R. BURBANK	11	24	3	13	13	20	e	53	133	40	45	162	74	55	24	73	16	fgh
	2	5	1	3	3	16		13	24	8	9	15	12	12	4	12	15	
3 R. NORKOTAH	16	42	158	122	85	13	abcde	86	83	19	114	24	194	97	24	80	15	efgh
	3	15	36	23	19	9		25	21	7	30	4	37	31	5	20	13	
4 SHEPODY	228	90	16	264	149	3	abc	.	.	.	.	.	.	90	.	-	-	
	35	18	4	47	26	4		.	.	.	.	.	.	20	.	-	-	
5 A92030-5	295	154	108	174	183	1	a	112	249	250	238	352	254	171	94	215	1	a
	47	49	30	35	40	1		34	49	55	47	49	48	50	21	44	1	
6 A92294-6	14	144	42	15	54	16	bcde	9	95	89	38	243	19	157	50	87	14	efgh
	2	26	10	3	10	13		2	16	14	7	20	3	24	8	12	15	
7 A9304-3	115	232	80	117	136	4	abc	116	289	148	168	359	222	174	73	194	3	abc
	17	53	21	20	28	3		32	54	31	30	42	38	41	14	35	3	
8 A9305-10	66	267	87	56	119	6	abcd	122	105	223	123	375	141	282	40	176	5	abcd
	11	54	25	9	25	5		26	19	38	25	36	24	51	8	29	7	
9 A93157-6LS	26	185	124	49	96	9	abcde	130	73	164	66	434	174	241	61	168	7	abcd
	4	39	37	9	22	7		27	14	30	14	39	30	42	12	26	10	
10 A95074-6	176	101	21	16	78	14	bcde	67	96	173	129	313	97	129	44	131	11	bcdef
	28	22	8	4	16	12		17	18	31	28	35	16	26	11	23	12	
11 A95109-1	186	155	190	77	152	2	ab	32	214	171	145	497	217	172	86	192	4	abc
	30	41	45	15	33	2		9	44	38	36	55	34	43	17	34	4	
12 AC92009-4Ru	64	140	67	73	86	12	abcde	98	87	121	117	270	174	195	25	136	10	bcdef
	13	38	21	14	21	8		28	20	32	34	36	37	51	5	30	6	
13 AC93026-9Ru	106	140	34	82	91	10	abcde	112	206	132	110	317	75	152	82	148	8	abcde
	16	28	10	14	17	11		27	37	33	23	31	14	33	15	27	9	
14 AO96160-3	8	64	46	13	33	18	de	27	123	199	65	260	71	137	24	113	13	defgh
	1	15	13	2	8	14		7	23	38	14	28	11	28	5	19	14	
15 ATX91137-1Ru	24	166	103	178	118	7	abcd	144	162	61	89	118	142	213	121	131	11	bcdef
	4	38	23	28	23	6		30	34	14	19	18	25	45	20	26	10	
16 ATX92230-1Ru	60	128	126	129	111	8	abcde	98	166	196	143	250	109	120	47	141	9	bcdef
	10	30	31	22	23	6		23	38	38	39	28	19	29	10	28	8	
17 CO93001-11RU	1	19	18	48	22	19	de	46	76	18	62	12	117	40	12	48	18	h
	0	4	7	8	5	15		16	18	5	13	2	22	11	2	11	16	
18 CO94035-15RU	63	144	43	237	122	5	abcd	176	144	111	123	549	167	151	199	202	2	ab
	11	31	15	41	25	5		39	34	30	33	53	33	35	35	36	2	
19 PA95A11-14	4	40	80	71	49	17	cde	84	71	1	31	43	60	61	122	59	17	gh
	1	9	18	11	10	13		17	15	0	8	6	10	14	18	11	16	
20 TC1675-1Ru	34	109	85	66	74	15	bcde	102	187	104	81	238	96	123	56	123	12	cdefg
	5	23	22	13	16	12		27	33	27	21	27	19	27	11	24	11	
Location Means	78	123	75	95	93			94	143	126	104	272	136	147	68	137		
	13	28	20	17	19			23	29	26	24	30	24	32	12	25		

Means followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test.

TABLE 6: 2004 Western Regional Potato Variety Trial - YIELD < 4 OZ [CWT/A (upper) & % (lower)] - EARLY AND LATE HARVEST

No. Clone	Yield < 4 OZ - Late Harvest (CWT/A) and %																	
	OR		TX	WA	Entry		CA	CO	ID		OR	WA	Entry					
	HRM	MAL	SPR	OTH	Mean/Rank		TUL	SLV	AB	KIM	HRM	KLM	MAL	OTH	Mean/Rank			
1 RANGER R.	46	18	47	33	36	11	cdefg	24	28	14	43	42	15	16	67	31	12	f
	7	4	12	6	8	6		5	6	3	10	5	3	3	11	6	11	
2 R. BURBANK	152	34	28	61	69	3	ab	67	65	57	87	110	79	23	127	77	3	abc
	25	8	8	12	13	3		16	12	12	18	10	12	5	23	14	3	
3 R. NORKOTAH	97	22	45	30	48	8	bcdef	28	45	53	28	127	28	27	115	56	8	cde
	19	7	10	6	10	5		8	11	18	7	22	5	9	23	13	4	
4 SHEPODY	24	19	42	13	24	16	fg	.	.	.	.	.	.	21	.	-	-	
	4	4	11	2	5	9		.	.	.	.	.	.	5	.	-	-	
5 A92030-5	34	10	38	32	28	13	defg	16	34	11	30	46	33	17	53	30	13	f
	5	3	11	7	6	8		5	7	2	6	6	6	5	12	6	11	
6 A92294-6	95	40	29	68	58	5	abcd	111	74	48	68	96	103	24	152	85	2	ab
	14	7	7	13	10	5		22	12	7	12	8	15	4	24	13	4	
7 A9304-3	38	13	27	24	26	15	fg	21	24	12	21	59	23	11	58	29	14	f
	6	3	7	4	5	9		6	4	3	4	7	4	3	11	5	12	
8 A9305-10	59	14	36	39	37	10	cdefg	39	43	25	39	80	41	20	147	54	9	de
	9	3	10	7	7	7		8	8	4	8	8	7	4	28	9	8	
9 A93157-6LS	72	36	41	55	51	7	bcdef	35	87	25	45	88	45	34	72	54	9	de
	11	8	12	10	10	5		7	17	5	9	8	8	6	14	9	8	
10 A95074-6	37	50	59	59	51	7	bcdef	37	87	36	31	71	61	39	106	58	6	cde
	6	11	22	14	13	3		10	16	6	7	8	10	8	26	11	6	
11 A95109-1	17	12	24	20	18	17	g	48	21	11	14	26	24	12	33	24	15	f
	3	3	6	4	4	10		13	4	2	3	3	4	3	7	5	12	
12 AC92009-4Ru	35	15	31	29	27	14	efg	22	47	11	19	40	20	13	66	30	13	f
	7	4	9	5	6	8		6	11	3	5	5	4	3	15	7	10	
13 AC93026-9Ru	67	35	57	63	56	6	abcde	42	40	36	45	84	60	37	104	56	8	cde
	10	7	17	11	11	4		10	7	9	9	8	11	8	19	10	7	
14 AO96160-3	83	30	62	83	65	4	abc	65	43	17	49	52	67	34	130	57	7	cde
	13	7	17	16	13	3		16	8	3	11	6	11	7	25	11	6	
15 ATX91137-1Ru	62	21	41	24	37	10	cdefg	27	26	41	36	57	36	17	54	37	11	ef
	10	5	9	4	7	7		6	6	9	8	8	6	4	9	7	10	
16 ATX92230-1Ru	39	20	47	33	35	12	cdefg	34	19	14	18	64	28	26	106	39	10	ef
	6	5	11	6	7	7		8	4	3	5	7	5	6	22	8	9	
17 CO93001-11RU	97	59	65	58	70	2	ab	34	40	52	58	136	57	46	145	71	4	bcd
	19	14	25	10	17	1		12	9	13	12	23	11	12	29	15	2	
18 CO94035-15RU	66	27	60	25	44	9	bcdefg	47	23	25	29	52	33	27	57	37	11	ef
	12	6	21	4	11	4		10	5	7	8	5	6	6	10	7	10	
19 PA95A11-14	143	61	79	48	83	1	a	45	112	138	70	171	63	51	102	94	1	a
	26	14	18	8	16	2		9	24	49	19	25	11	12	15	20	1	
20 TC1675-1Ru	94	33	56	41	56	6	abcde	55	58	50	45	101	69	38	92	63	5	cd
	15	7	15	8	11	4		15	10	13	11	11	13	8	17	12	5	
Location Means	68	28	46	42	46			42	48	36	41	79	47	27	94	52		
	11	6	13	8	10			10	10	9	9	10	8	6	18	10		

Means followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test.

TABLE 7: 2004 Western Regional Potato Variety Trial - SPECIFIC GRAVITY - EARLY AND LATE HARVEST

No. Clone	Specific Gravity - Late Harvest																	
	OR		TX SPR	WA OTH	Entry Mean/Rank	CA TUL	CO SLV	ID		OR		WA OTH	Entry Mean/Rank					
	HRM	MAL						AB	KIM	HRM	KLM			MAL				
1 RANGER R.	1.066	1.075	1.067	1.077	1.071	7	cdefg	1.086	1.091	1.092	1.088	1.070	1.089	1.084	1.079	1.085	6	c
2 R. BURBANK	1.071	1.063	1.060	1.080	1.068	10	ghij	1.087	1.092	1.082	1.083	1.069	1.091	1.063	1.066	1.079	9	d
3 R. NORKOTAH	1.069	1.063	1.060	1.076	1.067	11	ghij	1.069	1.081	1.079	1.079	1.057	1.073	1.063	1.062	1.070	13	e
4 SHEPODY	1.065	1.071	1.064	1.079	1.070	8	defgh	.	.	.	.	.	.	1.074	.	-	-	
5 A92030-5	1.070	1.077	1.072	1.089	1.077	2	ab	1.078	1.098	1.089	1.097	1.069	1.090	1.077	1.077	1.084	7	c
6 A92294-6	1.072	1.076	1.062	1.087	1.074	5	abcdef	1.099	1.103	1.094	1.096	1.074	1.101	1.083	1.084	1.092	1	a
7 A9304-3	1.067	1.080	1.072	1.080	1.075	4	abcd	1.083	1.097	1.087	1.093	1.070	1.091	1.080	1.075	1.084	7	c
8 A9305-10	1.070	1.070	1.062	1.079	1.070	8	defgh	1.086	1.099	1.093	1.090	1.075	1.087	1.072	1.071	1.084	7	c
9 A93157-6LS	1.070	1.074	1.068	1.087	1.075	4	abcde	1.094	1.099	1.089	1.092	1.078	1.093	1.088	1.088	1.090	2	ab
10 A95074-6	1.065	1.076	1.074	1.083	1.074	5	abcde	1.094	1.099	1.089	1.100	1.072	1.091	1.082	1.078	1.088	4	abc
11 A95109-1	1.066	1.068	1.067	1.077	1.069	9	efgh	1.085	1.093	1.081	1.085	1.065	1.085	1.078	1.068	1.080	8	d
12 AC92009-4Ru	1.069	1.077	1.075	1.083	1.076	3	abc	1.088	1.101	1.098	1.103	1.071	1.091	1.086	1.077	1.089	3	ab
13 AC93026-9Ru	1.063	1.072	1.064	1.077	1.069	9	fghi	1.082	1.089	1.081	1.094	1.069	1.082	1.074	1.072	1.080	8	d
14 AO96160-3	1.072	1.079	1.073	1.084	1.077	2	ab	1.083	1.094	1.088	1.096	1.076	1.095	1.085	1.075	1.087	5	bc
15 ATX91137-1Ru	1.060	1.065	1.060	1.070	1.064	13	ij	1.074	1.083	1.073	1.078	1.056	1.074	1.069	1.065	1.071	12	e
16 ATX92230-1Ru	1.064	1.071	1.058	1.081	1.068	10	ghi	1.083	1.092	1.085	1.087	1.063	1.086	1.073	1.068	1.080	8	d
17 CO93001-11RU	1.064	1.064	1.052	1.073	1.063	14	j	1.078	1.079	1.076	1.073	1.061	1.071	1.065	1.070	1.072	11	e
18 CO94035-15RU	1.060	1.063	1.062	1.074	1.065	12	hij	1.083	1.085	1.080	1.081	1.064	1.083	1.071	1.073	1.078	10	d
19 PA95A11-14	1.069	1.072	1.067	1.079	1.072	6	bcdefg	1.079	1.086	1.084	1.086	1.065	1.082	1.070	1.074	1.078	10	d
20 TC1675-1Ru	1.074	1.081	1.069	1.092	1.079	1	a	1.084	1.101	1.087	1.094	1.083	1.091	1.081	1.080	1.088	4	bc
Location Means	1.067	1.072	1.065	1.080	1.071			1.084	1.093	1.086	1.089	1.069	1.087	1.076	1.074	1.082		

Means followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test.

TABLE 8: 2004 Western Regional Potato Variety Trial - AVERAGE TUBER SIZE, AND TUBER SHAPE

No. Clone	Average Tuber Size (oz)											Late Trial												
	Early Trial				Late Trial							Late Trial												
	OR	TX	WA	Mean	CA	ID		OR	WA	Mean	OR	TX	WA	Mean	CA	CO	ID		OR		WA	Mean		
HRM	SPR	OTH		TUL	AB	KIM	HRM	OTH		HRM	MAL	SPR	OTH		TUL	SLV	AB	KIM	HRM	KLM	MAL	OTH		
1 RANGER R.	6.8	6.5	7.5	6.9	8.5	9.1	7.1	9.6	6.7	8.2	4.6	4.0	4.5	4.0	4.3	5.0	5.0	4.3	5.0	4.9	5.0	5.0	4.0	4.8
2 R. BURBANK	4.5	5.8	5.9	5.4	5.8	6.4	5.7	7.4	4.9	6.0	3.9	5.0	4.4	4.0	4.3	4.0	5.0	3.8	4.3	4.0	5.0	5.0	4.0	4.4
3 R. NORKOTAH	5.2	7.9	7.6	6.9	7.2	5.2	8.4	5.5	4.8	6.2	4.4	3.3	4.3	4.0	4.0	4.5	5.0	4.0	4.3	4.2	4.0	3.0	3.5	4.1
4 SHEPODY	8.9	6.3	10.2	8.5	.	.	.	.	.	-	3.9	2.8	4.3	2.5	3.4	.	.	.	.	.	.	3.0	.	-
5 A92030-5	9.3	8.7	8.2	8.7	8.9	11.3	9.4	9.6	6.6	9.2	3.9	3.0	4.3	3.0	3.5	4.0	5.0	3.5	3.5	3.8	3.8	3.0	3.0	3.7
6 A92294-6	5.5	5.9	5.7	5.7	5.0	8.1	6.4	8.0	4.8	6.5	4.0	4.5	4.5	3.0	4.0	3.0	5.0	4.0	4.0	3.8	3.5	4.3	4.0	3.9
7 A9304-3	7.3	7.8	8.1	7.8	8.1	9.4	9.0	9.3	6.3	8.4	4.8	5.0	4.4	4.0	4.5	4.5	5.0	4.8	4.0	5.0	5.0	4.5	4.0	4.6
8 A9305-10	6.4	7.0	6.9	6.7	7.2	9.7	7.1	9.2	4.8	7.6	3.2	3.8	4.3	2.5	3.4	4.0	4.0	3.5	3.3	3.4	3.0	3.3	2.0	3.3
9 A93157-6LS	5.8	7.2	6.4	6.5	7.6	8.3	6.8	8.8	5.8	7.5	4.0	3.0	3.8	2.5	3.3	4.0	4.0	3.3	3.5	4.1	4.0	3.3	3.0	3.6
10 A95074-6	8.0	5.2	5.7	6.3	6.7	9.2	8.4	8.3	4.9	7.5	4.3	3.0	3.9	4.0	3.8	4.3	4.0	3.5	3.0	4.5	3.5	3.0	3.0	3.6
11 A95109-1	8.8	9.5	7.9	8.7	6.1	9.3	9.1	11.2	7.1	8.6	3.8	3.5	4.1	3.8	3.8	4.3	4.0	3.3	3.5	4.2	4.0	3.0	3.0	3.7
12 AC92009-4Ru	6.8	6.8	7.6	7.1	7.6	8.6	8.7	8.9	5.7	7.9	3.8	3.3	4.1	3.0	3.5	4.3	4.0	3.0	3.5	3.8	4.0	3.0	3.0	3.6
13 AC93026-9Ru	6.7	5.5	6.5	6.2	7.1	7.5	7.4	8.2	5.5	7.1	4.3	4.5	4.4	4.8	4.5	4.5	5.0	4.0	3.8	4.3	4.0	4.3	4.5	4.3
14 AO96160-3	5.4	5.9	5.4	5.6	5.7	9.2	6.8	8.2	4.8	6.9	3.6	2.8	3.8	3.3	3.4	4.0	5.0	4.0	3.3	4.4	4.5	3.0	2.5	3.8
15 ATX91137-1Ru	6.0	7.3	8.6	7.3	6.6	6.6	7.3	6.3	6.9	6.7	4.6	3.0	4.0	3.7	3.8	4.0	4.0	3.8	3.0	4.5	4.0	3.5	3.0	3.7
16 ATX92230-1Ru	6.9	7.1	7.9	7.3	7.4	9.6	8.8	7.9	5.2	7.8	3.5	3.0	3.8	2.7	3.2	4.0	4.0	3.0	3.3	3.4	3.3	3.0	2.5	3.3
17 CO93001-11RU	5.1	5.1	6.6	5.6	6.6	5.4	6.7	5.1	4.5	5.6	3.9	2.8	3.8	3.0	3.4	4.3	4.0	3.0	4.0	4.0	4.3	3.0	3.0	3.7
18 CO94035-15RU	6.2	5.6	9.1	7.0	6.9	7.7	7.2	10.5	7.4	8.0	3.4	3.5	4.1	3.0	3.5	4.5	5.0	2.8	4.0	3.2	4.8	3.0	3.5	3.9
19 PA95A11-14	4.4	5.8	7.0	5.7	6.9	3.5	5.2	5.0	6.2	5.4	3.2	3.8	4.3	3.3	3.6	4.0	4.0	2.5	3.5	3.3	4.0	4.3	3.0	3.6
20 TC1675-1Ru	5.5	7.1	6.8	6.5	6.7	6.7	6.7	7.3	5.6	6.6	3.6	3.0	4.1	3.3	3.5	4.3	4.0	3.3	3.3	3.5	3.5	3.0	3.0	3.5
Location Means	6.5	6.7	7.3	6.8	7.0	7.9	7.5	8.1	5.7	7.2	3.9	3.5	4.1	3.4	3.7	4.2	4.5	3.5	3.7	4.0	4.1	3.5	3.2	3.8

TABLE 9: 2004 Western Regional Potato Variety Trial - EXTERNAL DEFECTS MEANS OF LOCATIONS - GROWTH CRACKS, SECOND GROWTH, SHATTER BRUISE, AND SCAB¹

No. Clone	Growth Cracks		Second Growth		Shatter Bruise			Scab	
	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	AB ²	Early Trial	Late Trial
1 RANGER R.	5.0	4.4	5.0	4.6	4.9	4.7	2.8	5.0	4.9
2 R. BURBANK	4.2 OTH 2.3	4.1	3.9 OTH 3.3	3.5 OTH 3.0 SLV 3.0	4.9	4.8	2.6	5.0	5.0
3 R. NORKOTAH	5.0	4.7	5.0	4.6	4.9	4.8	3.0	4.8	5.0
4 SHEPODY	4.9	-	5.0	-	4.8	-	-	4.6	-
5 A92030-5	4.8	4.6	4.5	4.3	4.8	4.1	3.2	5.0	5.0
6 A92294-6	4.5	3.9 AB 2.8 KIM 2.8	5.0	4.1 SLV 2.0	4.8	4.6	2.6	4.8	4.5 OTH 2.3
7 A9304-3	4.9	4.7	5.0	4.7	4.8	4.4	2.6	5.0	5.0
8 A9305-10	5.0	4.7	5.0	4.6	4.7	4.2	2.4	4.8	5.0
9 A93157-6LS	4.9	4.7	5.0	4.6	4.9	4.8	2.9	5.0	5.0
10 A95074-6	4.8	4.5	5.0	4.7	4.7	4.6	2.8	4.8	4.9
11 A95109-1	4.7	4.7	5.0	4.8	4.6	4.5	2.5	5.0	5.0
12 AC92009-4Ru	5.0	4.9	5.0	5.0	4.8	4.8	3.1	4.9	5.0
13 AC93026-9Ru	4.8	4.6	5.0	4.7	4.9	4.3	2.6	5.0	5.0
14 AO96160-3	5.0	4.7	5.0	4.7	4.8	4.8	2.7	5.0	5.0
15 ATX91137-1Ru	5.0	4.6	5.0	4.8	4.8	4.6	3.2	5.0	5.0
16 ATX92230-1Ru	4.4 OTH 3.7	4.0	5.0	4.5 SLV 2.0	3.3 HRM 1.3 OTH 2.0	2.8 HRM 1.0 KLM 2.0	2.0	5.0	5.0
17 CO93001-11RU	4.9	4.8	4.8	5.0	4.8	4.8	3.1	5.0	5.0
18 CO94035-15RU	4.8	4.7	5.0	4.9	4.7	4.2	3.3	5.0	4.9
19 PA95A11-14	4.8	4.6	4.5	4.8	4.5	4.3	2.9	4.9	4.9
20 TC1675-1Ru	4.9	4.6	5.0	4.6	4.9	4.8	3.0	5.0	5.0
Entry Means	4.8	4.6	4.9	4.6	4.7	4.4	2.8	4.9	4.9

¹All scores [1-5(none)]. Individual trial sites with relatively extreme values are listed to the right of the entry means.

²Aberdeen shatter scores reflect dropping from shatter chamber [1-5(none)].

TABLE 10: 2004 Western Regional Potato Variety Trial - INTERNAL DEFECTS MEANS OF LOCATIONS - HOLLOW HEART/BROWN CENTER, INTERNAL BROWN SPOT, VASCULAR DISCOLORATION/NET NECROSIS, AND BLACKSPOT¹

No. Clone	Percent Hollow Heart Plus Brown Center		Percent Internal Brown Spot		Percent Net Necrosis/Vascular Discoloration		Blackspot Bruise [1-5(none)]		ID ²	% OTH-L ³
	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial		
1 RANGER R.	0	0	0	1	19 *SPR 35	5	4.2	4.5	1.9	46.7
2 R. BURBANK	22 OTH 51	9 AB 21 OTH 28	0	5 HRM 27	1	6 KIM 20	4.6	4.4 SLV 2.7	2.5	31.0
3 R. NORKOTAH	0	2	0	1	2	3	4.7	4.9	2.6	.
4 SHEPODY	0	0	2	-	2	-	3.6 SPR 2.0	-	-	-
5 A92030-5	1	7 KLM 35	0	1	2	1	4.5	4.8	2.1	22.0
6 A92294-6	1	1	3	1	14 *SPR 25	3	4.6	4.7	2.6	20.3
7 A9304-3	0	2	3	4 HRM 23	5	1	4.2	4.7	2.9	17.7
8 A9305-10	0	0	1	1	34 *SPR 60	3	4.6	4.5	2.5	30.0
9 A93157-6LS	1	8 KLM 35	1	0	13	1	4.6	4.2 SLV 1.9	2.0	34.7
10 A95074-6	8 SPR 20	5	0	0	0	0	5.0	4.6	3.2	34.0
11 A95109-1	0	1	1	0	13	2	4.7	4.2 SLV 1.8	2.8	30.0
12 AC92009-4Ru	0	1	0	0	13	2	4.5	4.8	2.6	17.3
13 AC93026-9Ru	0	2	0	4 HRM 22	22 *SPR 40	2	5.0	4.4 SLV 2.4	2.5	.
14 AO96160-3	8 OTH 23	1	0	1	13 *SPR 25	4 KLM 18	4.6	4.9	3.2	20.3
15 ATX91137-1Ru	0	0	0	3 HRM 15	6	1	5.0	4.7	3.5	10.3
16 ATX92230-1Ru	1	4	1	1	6	0	4.9	4.6	3.1	22.3
17 CO93001-11RU	0	3	3	0	0	1	5.0	4.6	2.6	10.3
18 CO94035-15RU	1	10 KLM 40	2	1	8	0	5.0	4.6	3.1	41.3
19 PA95A11-14	0	0	0	0	0	1	4.3	4.5	2.9	15.5
20 TC1675-1Ru	0	2	1	4 HRM 22	25 *SPR 50	0	4.3	4.5	2.5	36.7
Entry Means	2	3	1	1	10	2	4.6	4.6	2.7	25.9

¹Individual trial sites with relatively extreme values are listed right of the entry means. *Springlake values represent very slight vascular discoloration

²Aberdeen and Kimberly Idaho, blackspot scores reflect abrasive peel test [1-5(none)].

³Controlled Blackspot study conducted in Othello; Samples from Idaho, Oregon, Washington.

TABLE 11: 2004 Western Regional Potato Variety Trial - FRENCH FRY COLOR (00-4.0(darkest)) AND PERCENT SUGAR ENDS

No. Clone	Field Fry						Fry 45						Fry 40				% Sugar Ends									
	CO	OR		WA		Entry Mean	CO	ID		OR		WA	Entry Mean	ID	WA	Entry Mean	ID		OR		Entry Mean					
	SLV	HRM	MAL	OTH	OTH		SLV	AB	KIM	HRM	MAL	KLM		OTH	AB		KIM	OTH	AB	KIM		HRM	KL M	MAL		
	L	E	E	E	L	L	L	L	L	L	L	L	L	L	L	L	L	L	E	L	L	E	L			
1 RANGER R.	2.0	0.1	0.0	0.0	0.0	0.4	2.0	1.7	1.1	1.3	1.0	1.0	3.0	1.6	2.8	3.0	4.0	3.3	38	30	0	3	0	0	18	13
2 R. BURBANK	1.0	0.4	0.0	0.0	0.0	0.4	2.0	1.3	1.3	1.9	3.0	1.5	2.0	1.9	3.1	3.7	4.0	3.6	38	37	0	10	60	5	30	26
3 R. NORKOTAH	2.0	0.1	0.0	0.0	0.0	0.5	2.0	2.6	1.6	1.4	3.0	2.5	.	2.2	3.5	4.0	.	3.8	63	38	0	3	0	3	7	16
4 SHEPODY	.	0.0	0.0	0.0	.	0.0	.	.	.	.	2.0	.	.	-	.	.	.	-	.	.	0	.	.	0	20	7
5 A92030-5	3.0	0.1	0.0	0.0	0.0	0.8	3.0	1.9	1.3	0.5	0.0	3.0	1.0	1.5	3.0	3.2	1.0	2.4	13	11	0	3	40	0	0	10
6 A92294-6	1.0	0.0	0.0	0.0	0.0	0.3	1.0	1.0	0.3	0.8	0.0	1.0	1.0	0.7	1.9	2.4	2.0	2.1	38	9	0	5	30	0	10	13
7 A9304-3	2.0	0.1	0.0	0.0	0.0	0.5	2.0	1.2	0.4	1.3	1.0	1.0	1.0	1.1	2.9	2.8	2.0	2.6	17	0	0	8	0	0	0	4
8 A9305-10	1.0	0.0	0.0	0.0	0.0	0.3	2.0	1.4	0.4	0.5	1.0	1.5	0.0	1.0	2.2	2.2	2.0	2.1	13	4	0	3	30	0	18	10
9 A93157-6LS	1.0	0.4	0.0	0.0	0.0	0.4	1.0	0.3	0.3	0.8	0.0	0.0	0.0	0.3	1.0	1.5	0.0	0.8	0	0	0	0	0	0	0	0
10 A95074-6	1.0	0.0	0.0	0.0	0.0	0.3	2.0	1.3	0.4	0.1	1.0	1.0	1.0	1.0	2.7	2.7	1.0	2.1	17	0	0	0	0	0	3	3
11 A95109-1	2.0	0.2	0.0	0.0	0.0	0.6	3.0	2.1	1.3	1.5	2.0	3.0	3.0	2.3	3.6	3.5	4.0	3.7	17	4	0	0	30	0	8	8
12 AC92009-4Ru	3.0	0.6	0.0	0.0	0.0	0.9	3.0	1.9	1.5	1.1	1.0	2.0	2.0	1.8	2.5	3.3	2.0	2.6	25	50	0	3	0	0	5	12
13 AC93026-9Ru	3.0	0.2	0.0	0.0	0.0	0.8	2.0	2.8	1.8	2.2	2.0	0.5	.	1.9	3.9	3.0	.	3.5	92	44	0	13	20	0	23	27
14 AO96160-3	1.0	0.0	0.0	0.0	0.0	0.3	1.0	1.3	0.5	0.3	0.0	2.0	0.0	0.7	2.4	2.4	3.0	2.6	17	8	0	0	0	0	0	4
15 ATX91137-1Ru	3.0	0.2	0.0	0.0	0.0	0.8	3.0	1.7	1.4	2.0	2.0	2.5	4.0	2.4	3.8	3.1	4.0	3.6	42	54	0	10	0	0	15	17
16 ATX92230-1Ru	3.0	0.0	0.0	0.0	0.0	0.8	3.0	1.7	1.1	0.8	0.0	2.0	1.0	1.4	3.3	2.5	2.0	2.6	9	8	0	3	0	0	0	3
17 CO93001-11RU	2.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0	0.4	0.4	1.0	1.0	1.0	0.8	3.3	3.6	2.0	3.0	8	4	0	3	0	0	10	4
18 CO94035-15RU	1.0	0.0	0.0	0.0	0.0	0.3	1.0	1.4	0.9	1.5	1.0	1.5	2.0	1.3	3.5	3.1	3.0	3.2	42	26	0	5	0	0	13	12
19 PA95A11-14	1.0	0.1	0.0	0.0	0.0	0.3	3.0	3.4	1.9	1.8	2.0	4.0	3.0	2.7	4.0	3.9	3.0	3.6	54	4	0	5	0	0	23	12
20 TC1675-1Ru	1.0	0.0	0.0	0.0	0.0	0.3	1.0	0.9	0.3	0.4	1.0	0.5	2.0	0.9	3.5	3.5	2.0	3.0	13	0	0	0	0	0	0	2
Location Means	1.8	0.1	0.0	0.0	0.0	0.5	2.0	1.6	1.0	1.1	1.2	1.7	1.6	1.4	3.0	3.0	2.4	2.9	29	17	0	4	11	0	10	10

Storage protocol prior to frying**Aberdeen** - 4 weeks from 50F to 40F and 45F, and 7 weeks @ 40F and 45F.**Hermiston** - 1 week from 50F to 45F, and 7 weeks @ 45F.**Kimberly** - 4 weeks from 50F to 40F and 45F, and 7 weeks @ 40F and 45F.**Klamath** - 6 weeks @ ~55F to 48F.**Malheur (Late)** - 1 week from 58F to 45F, and 6 weeks @ 45F.**Othello** - 2 weeks from 48F to 40F and 45 F, and 8 weeks @ 40F and 45F.**San Luis Valley** - 3 weeks from 55F to 45F, and 8 weeks @ 45F.* Comprehensive post harvest evaluations of entries can be found in the 2004 Potato Cultivar Yield & Post Harvest Quality Evaluations - Washington State University. (www.wsu.edu/~fullern)
Contact: Rick Knowles.

TABLE 12: 2004 Western Regional Potato Variety Trial - DISEASE EVALUATION AND METRIBUZIN REACTION

No. Clone	Vert. Wilt/Early Dying		Early Blight ¹ (0-9)	Late Blight		Common Scab ¹ (1-5)	% Net Necrosis		Prosser		Fusarium		Erwinia Soft Rot ¹ (0-5)	Metribuzin Reaction ⁶ AB
	AB ¹ (0-9)	HRM ² (0-9)		Corvallis ³			AB ¹	HRM ²	% Corky Rngspt ⁴	Root-knot ⁵	Dry Rot ¹ F _{s(0-5)} F _c			
				Foliar (1-9)	Tuber % by Wt.									
1 RANGER R.	3.2	6.7	3.3	8.8	95.0	3.7	0	0	70.0	S	2.6	3.5	3.5	MS
2 R. BURBANK	7.2	7.7	3.8	8.3	45.0	1.0	3	0	42.5	S	.	.	2.9	VR
3 R. NORKOTAH	8.8	-	4.0	9.0	85.0	1.7	.	.	35.0	S	.	.	.	VR
4 SHEPODY	4.8	-	4.5	9.0	60.0	3.3	5	.	50.0	S	2.5	3.5	4.6	VS
5 A92030-5	6.2	8.1	5.0	8.8	65.0	1.7	22	8	7.5	S	2.9	2.9	2.8	R
6 A92294-6	2.5	4.0	2.7	7.8	10.0	3.0	10	15	62.5	S	2.1	3.7	4.5	VR
7 A9304-3	5.8	7.4	4.0	8.8	59.5	1.0	3	3	57.5	S	3.3	2.3	3.2	MS
8 A9305-10	4.2	6.0	4.7	8.5	57.5	2.3	17	15	67.5	S	3.3	2.5	4.8	R
9 A93157-6LS	2.5	2.8	2.3	7.8	70.0	1.3	9	3	52.5	S	4.8	3.3	2.4	MS
10 A95074-6	3.3	6.3	3.0	8.0	25.0	2.0	.	3	35.0	S	.	.	4.5	R
11 A95109-1	-	7.3	-	8.3	50.0	-	.	3	-	.	.	.	.	MR
12 AC92009-4Ru	4.7	7.3	3.0	8.8	32.5	0.0	0	0	55.0	S	3.9	2.9	4.7	MS
13 AC93026-9Ru	3.7	6.0	4.0	8.8	87.5	0.0	0	0	47.5	S	1.5	2.1	3.9	R
14 AO96160-3	4.3	6.6	4.2	8.5	47.5	0.3	.	10	20.0	S	.	.	2.9	MS
15 ATX91137-1Ru	7.3	8.3	5.7	9.0	22.5	1.7	.	0	20.0	S	.	.	4.5	MR
16 ATX92230-1Ru	6.7	8.0	3.8	9.0	57.5	1.7	12	0	17.5	S	4.4	4.1	0.9	MR
17 CO93001-11RU	9.0	8.9	2.0	8.8	62.5	1.7	6	0	20.0	S	1.7	2.8	3.3	S
18 CO94035-15RU	4.2	4.5	4.0	8.0	35.0	2.0	.	0	65.0	S	.	.	1.8	R
19 PA95A11-14	4.0	7.8	3.7	9.0	47.5	2.7	.	0	0.0	S	.	.	4.1	MS
20 TC1675-1Ru	5.8	8.0	4.7	9.0	35.0	0.0	12	3	62.5	S	3.5	3.1	4.7	VR
Entry Means	5.2	6.7	3.8	8.6	52	1.6	8	3.4	41.4		3.0	3.1	3.6	
LSD (.05)	1.5		1.5			1.5					1.0	1.3	1.4	

¹ Evaluations made at Aberdeen, Idaho by Jonathan Whitworth; scale as indicated with highest number being most severe.

² Evaluations made at Hermiston, Oregon by Dan Hane; scale as indicated with highest number being most severe.

³ Evaluations made at Corvallis, Oregon by Al Mosley and Solomon Yilma; scale as indicated with highest number being most severe.

⁴ Evaluations made at Prosser, Washington by Chuck Brown

⁵ Evaluations made at Prosser, Washington by Chuck Brown: R=resistant, MR=moderately resistant, MS=moderately susceptible, S=suceptible.

⁶ Evaluations made at Aberdeen, Idaho by Steve Love and Tom Salaiz: R=resistant, MR=moderately resistant, MS=moderately susceptible, S=suceptible.

**TABLE 13: 2004 Western Regional Potato Variety Trial - SOLIDS, DEXTROSE, SUCROSE, PROTEIN, VITAMIN C,
AND GLYCOALKALOIDS - ABERDEEN**

No. Clone	Solids Oven Dry (%)	Sugars		Protein (%DWB) ¹	Vitamin C (mg/100g FWB) ¹	Glycoalkaloids ² (mg/100gFWB) ¹
		Dextrose (%FWB) ¹	Sucrose (%FWB) ¹			
1 RANGER RUSSET	21.5	0.14	0.21	5.3	32.2	3.7
2 RUSSET BURBANK	22.2	0.11	0.15	5.7	23.1	2.7
3 RUSSET NORKOTAH	19.9	0.16	0.14	6.0	24.6	1.8
5 A92030-5	22.3	0.12	0.34	5.4	33.1	3.5
6 A92294-6	22.4	0.06	0.26	5.3	29.1	1.2
7 A9304-3	21.4	0.06	0.19	5.9	32.2	4.9
8 A9305-10	20.4	0.06	0.31	6.0	22.1	2.1
9 A93157-6LS	22.3	0.04	0.25	6.3	22.9	5.8
10 A95074-6	20.7	0.07	0.16	6.1	27.7	6.3
11 A95109-1	22.4	0.07	0.20	6.4	25.7	0.9
12 AC92009-4Ru	21.9	0.14	0.28	5.6	31.0	7.1
13 AC93026-9Ru	20.4	0.18	0.20	6.0	18.8	0.6
14 AO96160-3	22.0	0.09	0.17	5.9	26.8	3.6
15 ATX91137-1Ru	21.1	0.11	0.26	6.2	23.9	0.9
16 ATX92230-1Ru	22.5	0.06	0.34	6.3	29.4	2.4
17 CO93001-11RU	21.9	0.07	0.13	6.1	26.3	1.9
18 CO94035-15RU	21.4	0.09	0.22	5.9	27.7	0.6
19 PA95A11-14	21.5	0.24	0.14	5.6	25.7	1.5
20 TC1675-1Ru	22.3	0.05	0.31	5.9	26.1	2.2
Entry Means	21.6	0.10	0.22	5.9	26.8	2.8

¹ DWB = Dry Weight Basis; FWB = Fresh Weight Basis

² Glycoalkaloids: The 2004 Lenape check from Aberdeen was 20.48 mg/100g

TABLE 14: 2004 Western Regional Potato Variety Trial - MERIT SCORES [1-5(best)]

No. Clone	Process									Fresh												
	CO	ID		OR			WA		Entry	CA	CO	ID		OR			TX	WA		Entry		
	SLV	AB	KIM	HRM	KLM	OTH	OTH	TUL		SLV	AB	KIM	HRM	KLM	SPR	OTH	OTH	Mean/Rank	Mean/Rank			
L	L	L	E	L	L	E	L	L	L	L	L	L	L	E	E	L						
1 RANGER R.	3.0	4.0	4.0	4.0	4.0	3.5	4.0	3.0	3.7	3	4.0	4.0	4.0	2.3	4.0	4.0	1.5	2.8	1.0	3.0	3.1	6
2 R. BURBANK	4.0	3.7	3.5	2.0	1.0	3.0	1.0	2.0	2.4	10	4.0	5.0	2.8	2.3	1.0	1.0	3.0	1.9	1.0	1.0	2.3	11
3 R. NORKOTAH	1.0	2.5	2.5	2.0	2.0	1.5	1.0	.	1.7	14	4.8	2.0	2.5	3.3	3.0	3.0	4.0	3.5	3.0	3.0	3.2	5
4 SHEPODY	.	.	.	4.5	.	.	5.0	.	-	-	.	.	.	.	3.0	.	.	2.5	1.0	.	2.2	12
5 A92030-5	4.0	3.7	3.7	3.0	3.0	1.5	2.0	4.0	3.0	8	4.5	1.0	2.8	4.0	2.0	2.0	2.5	3.8	2.0	4.0	2.9	7
6 A92294-6	4.0	4.0	3.5	5.0	4.0	3.0	2.0	5.0	3.6	4	5.0	5.0	2.0	2.0	3.0	1.0	4.0	2.7	1.0	1.0	2.7	9
7 A9304-3	5.0	4.0	4.5	4.0	1.0	4.0	4.0	3.0	3.7	3	4.3	5.0	3.0	3.5	4.0	1.0	3.0	2.5	5.0	4.0	3.5	3
8 A9305-10	5.0	3.5	4.0	3.5	3.0	3.0	4.0	4.0	3.8	2	3.8	5.0	2.5	3.0	2.0	2.0	3.5	2.7	4.0	2.0	3.05	6
9 A93157-6LS	2.0	4.5	4.5	4.5	5.0	3.0	4.0	5.0	4.1	1	5.0	3.0	3.5	3.8	4.0	4.0	2.5	3.5	3.0	5.0	3.7	2
10 A95074-6	3.0	3.7	4.0	4.0	4.5	3.0	1.0	4.0	3.1	7	4.3	4.0	1.8	3.3	4.0	3.0	2.5	2.6	1.0	1.0	2.8	8
11 A95109-1	3.0	3.7	3.7	3.5	3.0	1.5	5.0	2.0	3.4	6	5.0	2.0	3.3	4.8	2.5	2.0	4.5	4.1	5.0	5.0	3.8	1
12 AC92009-4Ru	3.0	3.5	3.5	4.5	3.0	2.5	5.0	3.0	3.7	3	4.8	1.0	3.8	3.8	5.0	2.0	4.5	3.3	5.0	4.0	3.7	2
13 AC93026-9Ru	5.0	2.0	3.7	4.0	1.0	4.0	4.0	.	3.5	5	4.8	4.0	2.5	3.0	5.0	1.0	3.0	2.8	3.0	4.0	3.3	4
14 AO96160-3	5.0	4.5	4.7	3.0	5.0	3.3	2.0	4.0	3.7	3	5.0	5.0	4.5	3.8	2.0	5.0	4.0	2.9	1.0	2.0	3.5	3
15 ATX91137-1Ru	3.0	2.5	3.0	3.0	1.0	2.0	1.0	3.0	2.2	11	4.8	1.0	3.5	3.5	4.0	2.5	4.0	3.6	3.0	5.0	3.5	3
16 ATX92230-1Ru	1.0	2.0	3.0	2.0	1.0	1.5	5.0	4.0	2.7	9	5.0	1.0	2.3	3.8	1.0	1.0	1.5	3.7	5.0	3.0	2.7	9
17 CO93001-11RU	2.0	3.0	2.7	2.5	2.0	1.5	1.0	4.0	2.2	11	4.5	3.0	2.8	3.8	2.0	3.0	2.0	2.5	1.0	1.0	2.6	10
18 CO94035-15RU	2.0	2.7	3.0	2.0	2.0	2.0	1.0	3.0	2.1	12	5.0	3.0	2.8	3.3	2.0	2.0	1.5	2.5	3.0	4.0	2.9	7
19 PA95A11-14	1.0	1.0	2.0	2.0	1.0	1.0	4.0	2.0	2.0	13	3.3	1.0	1.3	2.5	1.0	1.0	2.5	3.2	3.0	4.0	2.3	11
20 TC1675-1Ru	5.0	3.5	3.0	3.0	1.0	3.5	2.0	4.0	3.0	8	5.0	5.0	3.5	3.5	2.5	1.0	3.5	2.9	1.0	5.0	3.3	4
Location Means	3.2	3.3	3.5	3.3	2.5	2.5	2.9	3.5	3.0		4.6	3.2	2.9	3.3	2.9	2.2	3.0	3.0	2.6	3.2	3.0	

TABLE 15: 2004 Western Regional Potato Variety Trial - ENTRY SUMMARY¹

No.	Clone	Year in Trial	Use	Total Yield ²	US#1's Yield ²	% US#1's ²	Tuber Size (oz)		Tuber Shape	Specific Gravity ²	Fry 45 Color	Merit Score		Noted Weaknesses	Disposition 2005
							Early	Late				Process	Fresh		
1	RANGER R.	-	Dual	550	441	80	6.9	8.2	Long	1.085	1.6	3.7	3.1		Check
2	R. BURBANK	-	Dual	580	373	65	5.4	6.0	Long	1.079	1.9	2.4	2.3		Check
3	R. NORKOTAH	-	Fresh	417	331	80	6.9	6.2	Obl-Lng	1.070	2.2	1.7	3.2		Check
4	SHEPODY	-	Proc	523	360	63	8.5	-	Oblong	1.070	-	-	2.2		Check
5	A92030-5	2	Dual	479	404	83	8.7	9.2	Obl-Lng	1.084	1.5	3.0	2.9	2nd Growth, Vert/ED, NN	
6	A92294-6	2	Proc	687	475	69	5.7	6.5	Obl-Lng	1.092	0.7	3.6	2.7	GC; 2nd Growth (Late); Scab; NN Erwinia	
7	A9304-3	3	Dual	538	451	83	7.8	8.4	Long	1.084	1.1	3.7	3.5		
8	A9305-10	3	Dual	594	471	79	6.7	7.6	Oblong	1.084	1.0	3.8	3.1	NN/VD (Early); Erwinia	
9	A93157-6LS	2	Dual	600	498	83	6.5	7.5	Oblong	1.090	0.3	4.1	3.7	Fusarium (Fs)	
10	A95074-6	1	Dual	545	421	76	6.3	7.5	Obl-Lng	1.088	1.0	3.1	2.8	Erwinia	
11	A95109-1	1	Dual	520	472	90	8.7	8.6	Obl-Lng	1.080	2.3	3.4	3.8		
12	AC92009-4Ru	3	Dual	446	397	89	7.1	7.9	Obl-Lng	1.089	1.8	3.7	3.7	Erwinia	
13	AC93026-9Ru	2	Fresh	552	424	77	6.2	7.1	Long	1.080	1.9	3.5	3.3	NN/VD (Early); Sugar Ends	
14	AO96160-3	1	Dual	562	489	86	5.6	6.9	Obl-Lng	1.087	0.7	3.7	3.5		
15	ATX91137-1Ru	1	Dual	522	466	89	7.3	6.7	Obl-Lng	1.071	2.4	2.2	3.5	Low SG (Late); Vert/ED; Erwinia	
16	ATX92230-1Ru	3	Dual	513	436	85	7.3	7.8	Oblong	1.080	1.4	2.7	2.7	GC; Shatter; Vert/ED; Fusarium	
17	CO93001-11RU	2	Dual	449	357	80	5.6	5.6	Obl-Lng	1.072	0.8	2.2	2.6	Small tuber size; Low SG (Late); Vert/ED; Metribuzen-Susc.;	
18	CO94035-15RU	1	Dual	525	454	85	7.0	8.0	Obl-Lng	1.078	1.3	2.1	2.9		
19	PA95A11-14	2	Fresh	496	359	71	5.7	5.4	Obl-Lng	1.078	2.7	2.0	2.3	Small tuber size; Erwinia	
20	TC1675-1Ru	3	Dual	511	426	83	6.5	6.6	Oblong	1.088	0.9	3.0	3.3	NN/VD (Early); Erwinia	
Entry Means				530	425	80	6.8	7.2		1.081	1.4	3.0	3.0		

¹ Numeric values represent means across all trial locations.

² Data shown from late trial results, unless the entry was in the early trial only (Shepody).

TABLE 16: 2004 Western Regional Potato Variety Trial - 3 YEAR SUMMARY OF GRADUATING ENTRIES

Clone	2002						2003						2004					
	Total Yield ¹ &(rank)	US #1 Yield ¹ & %	SG	Fry 45	Merit Score Fresh Proc		Total Yield ¹ &(rank)	US #1 Yield ¹ & %	SG	Fry 45	Merit Score Fresh Proc		Total Yield ¹ &(rank)	US #1 Yield ¹ & %	SG	Fry 45	Merit Score Fresh Proc	
A9304-3	514 (8/15)	430 83	1.090	0.9	3.2	3.9	568 (7/18)	458 81	1.085	0.8	3.2	3.5	538 (9/19)	451 83	1.084	1.1	3.5	3.7
A9305-10	615 (1/15)	506 81	1.086	0.7	3.0	3.4	692 (2/18)	537 80	1.083	0.5	3.4	3.3	594.33 (3/19)	471 79	1.084	1.0	3.1	3.8
AC92009-4Ru	417 (15/15)	376 89	1.092	0.9	3.7	3.4	490 (12/18)	412 86	1.087	1.4	3.1	2.8	446.39 (18/19)	397 89	1.089	1.8	3.7	3.7
ATX92230-1Ru	542 (5/15)	467 85	1.083	0.8	3.2	2.7	526 (9/18)	456 86	1.079	1.0	3.2	2.5	513.44 (13/19)	436 85	1.080	1.4	2.7	2.7
TC1675-1Ru	465 (11/15)	361 76	1.090	0.7	2.9	3.6	494 (10/18)	398 79	1.089	0.4	3.1	3.3	511 (14/19)	426 83	1.088	0.9	3.3	3.0
R. NORKOTAH	464 (12/15)	374 79	1.074	1.7	4.0	2.4	426 (17/18)	344 81	1.073	2.0	3.4	2.1	416.61 (19/19)	331 80	1.070	2.2	3.2	1.7
R. BURBANK	541 (6/15)	360 65	1.082	1.1	2.4	3.6	588 (5/18)	375 63	1.079	1.9	2.3	2.2	580 (4/19)	373 65	1.079	1.9	2.3	2.4
Trial Mean	494	396 79	1.083	1.2	3.0	3.1	535	420	1.082	1.3	3.0	2.8	530	425 80	1.081	1.4	3.0	3.0

3 Year Average (2002-2004)

Clone	Total Yield ¹ &(rank) ²	US #1 Yield ¹ & %	SG	FRY 45	Merit Score		Noted Weaknesses
					Fresh	Proc	
A9304-3	540 (59)	446 82	1.086	0.9	3.3	3.7	
A9305-10	634 (95)	505 80	1.084	0.7	3.2	3.5	Net Necrosis/Vascular Disc. (Early)- 3/3 years
AC92009-4Ru	451 (19)	395 88	1.089	1.4	3.5	3.3	
ATX92230-1Ru	527 (55)	453 85	1.081	1.1	3.0	2.6	GC- 3/3 years; Shatter- 3/3 years; HH- 2/3 years Vert/ED- 3/3 years; Fusarium- 2/3 years
TC1675-1Ru	490 (38)	395 79	1.089	0.7	3.1	3.3	Smaller tuber size - 2/3 years
R. NORKOTAH	436 (14)	350 80	1.072	2.0	3.5	2.1	
R. BURBANK	570 (76)	369 64	1.08	1.6	2.3	2.7	
Trial Mean³	520	414 79	1.082	1.3	3.0	3.0	

¹ (CWT/A)² Percent of entries with lower yields; e.g. 59% of all late trial entries over three years, yielded lower than A9304-3.³ Late trial mean of all late trial entries 2002-2004