

2003 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

California

Colorado

Idaho

New Mexico

Oregon

Texas

Washington

State Experiment Stations and
USDA-ARS Cooperating



2003 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 **(No Graduating Entries this Year)**

Revision - 5/26/2004

TABLE 1: 2003 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	Kern Co. California (KRN)	R. Voss, H. Phillips, J. Nunez	Early	Sprink.	240-180-180	17-Feb	24-Jun	109	127	Vapam Eptam Prowl		Diathan Curzate Bravo Ultrex	
										Water cut off			
2	Tulelake California (TUL)	R. Voss, H. Phillips, D. Kirby, H. Carlson	Late	Sprink.	120-150-0	15-May	2-Oct	127	140	Sencor Matrix	Monitor	Curzate Dithane Bravo Weather Stik	
										Reglone			
3	San Luis Valley Colorado (SLV)	D. Holm, P. Naranjo	Late	Pivot	120-60-40-25+	13-May	23-Sep	112	133	Dual Magnum	Actara Leverage 2.7	Quadris	
										Sulfuric Acid			
4	Aberdeen Idaho (AB)	S. Love, R. Novy, J. Whitworth, T. Salais P. Bain, B. Schneider	Late	Sprink.	190-80-250	28-Apr	18-Sep	129	143	Sencor DF Matrix Eptam	Admire	Bravo Curzate	
										Reglone			
5	Kimberly Idaho (KIM)	S. Love, R. Novy, J. Whitworth, T. Salais P. Bain, B. Schneider	Late	Sprink.	270-156-150	22-Apr	10-Oct	149	171	Metribuzin Matrix	Temic Success Terranil	Dithane Quadris	
										Mechanical			
6	Farmington New Mexico (FRM)	M. O'Neil, C. Owen	Late	Sprink.	237-104-120	10-Apr	27-Oct	-	200	Turbo			
7	Hermiston Oregon (HRM)	D. Hane, A. Mosley L. Leroux	Early Late	Pivot Pivot	285-80-250-40+ 330-80-250-40+	20-Mar 8-Apr	30-Jul 22-Sep	113 155	132 167	Eptam Matrix	Mocap, Admire Monitor, Comite	Vapam, Ridomil, Quadris, Bravo Dithane, Rovral 4E	
										Enquik			
										Enquik			
8	Klamath Falls Oregon (KLM)	K. Rykbost, B. Charlton	Late	Sprink.	160-80-80-140	22-May	6-Oct	120	137	Dual, Prowl Matrix	Admire Vydate CLV Monitor	Tops MZ Quadris, Dithane Bravo, Curzate	
										Diquat			
9	Malheur Oregon (MAL)	C. Shock, E. Eldredge	Early Late	Sprink. Sprink.	121-140-80-80 121-140-80-80	10-Apr 18-Apr	20-Aug 13-Oct	131 167	132 178	Roundup Prowl, Dual Matrix	Telone II Gaicho	Tops MZ, Bravo Ridomil, sulfur dust Dithane, liquid sulfur	
										Mech.			
										Mech.			
10	Springlake Texas (SPR)	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	242-25-25	20-Mar	21-Aug	146	154	Roundup Trefland Sencor, Dual	Dimethoate	Quadris Bravo	
										Mechanical			
11	Pasco (PAS) Othello (OTH) Washington	R. Thornton, N. Fuller, E. Driskill, R. Knowles G. Newberry	Early Late	Pivot Pivot	379-200-200-66 326-120-0-106	1-Apr 22-Apr	26-Aug 22-Sep	125 153	147 153	Prowl, Sencor Matrix	Telone II, Asana Leverage, Dimethoate Temik, K-Pam, Comite Monitor, Sevin	Bravo, Curzate, Trifluran Blocker, Dithane Omega , Moncut, Echo Botran, Headline	
										Defol.			
										Mech.			

¹ Bold indicates use in both early and late trial.

TABLE 2: 2003 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 Source	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	94	Long	4.7	Med Russet	3.9	Med-large	3.5	Medium	3.2	1.9
2	RUSSET BURBANK	Early Rose ?	W	Ck	Dual	E/L	-	OR	96	Long	4.4	Med Russet	3.8	Med-large	3.7	Med-early	2.9	2.2
3	RUSSET NORKOTAH	ND9687-5Russ ND9526-4Russ	W	Ck	Fresh	E/L	-	OR	95	Long	4.4	Med Hvy Rus	4.2	Medium	2.8	Early	2.1	2.5
4	SHEPODY	Bake-King F58050	RP	Ck	Proc	E	-	OR	97	Oblong	3.7	Light Russet	1.8	Med-large	3.3	Med-early	2.8	2.0
5	A91186-2	A83043-12 A85041-5	W	ID	Dual	E/L	1	OR	95	Long	4.6	Med Russet	4.1	Med-large	3.4	Medium	3.2	1.8
6	A91814-5	NDA2031-2 Ivory Crisp	RP	ID	Dehy/ Fry	E/L	1	OR	96	Rnd-Obl	2.0	White	1.4	Med-large	4.1	Medium	3.5	2.8
7	A92030-5	A83043-12	W	ID	Dual	E/L	1	OR	92	Obl-Lng	3.8	Med Hvy Rus	4.3	Med-large	3.2	Med-early	2.6	1.8
8	A92294-6	A86332-7 Summit Russet	W	ID	Proc	E/L	1	OR	95	Long	4.0	Light Russet	2.0	Med-large	4.0	Medium	3.2	3.3
9	A9304-3	A83043-12 A7961-1	W	ID	Dual	E/L	2	CO	94	Long	4.6	Med Hvy Rus	4.1	Med-large	3.6	Med-early	3.0	2.1
10	A9305-10	A83043-12 A85103-3	RP	ID	Dual	E/L	2	CO	96	Obl-Lng	4.0	Med Russet	3.1	Med-large	3.4	Med-late	3.3	2.3
11	A93157-6LS	A87149-4 A88108-7	W	ID	Dual	E/L	1	CO	97	Long	4.1	Med Russet	4.0	Med-large	3.4	Medium	3.6	2.5
12	AC92009-4Ru	A8343-12 A8784-3	W	CO	Dual	E/L	2	CO	91	Long	4.2	Med Hvy Rus	4.2	Medium	2.4	Med-late	3.5	1.5
13	AC93026-9Ru	A8823-1 A86102-6	W	CO	Fresh	E/L	1	CO	94	Long	4.6	Med Hvy Rus	4.2	Med-large	3.5	Medium	3.5	2.4
14	ATX9202-1Ru	A8343-12 Gem Russet	W	TX	Dual	E/L	2	CO	90	Obl-Lng	4.2	Med Hvy Rus	4.2	Medium	2.7	Medium	3.4	1.5
15	ATX92230-1Ru	A8603-13 Gem Russet	W	TX	Fresh	E/L	2	OR	95	Obl-Lng	3.6	Med Russet	3.8	Med-large	3.3	Med-early	2.9	2.1
16	CO93001-11RU	A79141-3 Silverton Russ	W	CO	Dual	E/L	2	CO	97	Long	4.2	Med Russet	3.3	Medium	2.9	Early	2.0	3.7
17	CO93016-3RU	Silverton Russ CO87140-3RU	DRP	CO	Dual	E/L	1	CO	96	Long	4.2	Med Russet	4.2	Med-large	3.4	Medium	3.0	4.0
18	PA95A11-14	A8259-5 A77715-6	W	WA	Fresh	E	1	OR	96	Obl-Lng	3.8	Med Russet	3.4	Medium	2.9	Early	2.1	1.9
19	TC1675-1Ru	Russet Nugget Lemhi Russet	W	CO	Dual	E/L	1	OR	95	Obl-Lng	3.8	Med Russet	4.0	Med-large	3.4	Medium	3.1	2.5

¹ P=Purple, R=Red, W=White.

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

TABLE 3: 2003 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)												
	CA	OR			TX	WA	Entry	CA	CO	ID		NM	OR			WA	Entry			
	KRN	HRM	MAL	SPR	PAS	Mean/Rank	TUL	SLV	AB	KIM	FRM	HRM	KLM	MAL	OTH	Mean/Rank				
1 RANGER R.	534	505	498	362	435	467	8	abc	215	444	397	500	703	912	585	629	889	586	6	cde
2 R. BURBANK	434	548	602	257	390	446	10	abcd	327	494	310	426	788	941	630	570	809	588	5	cd
3 R. NORKOTAH	662	456	522	300	528	494	4	ab	304	378	307	389	466	668	422	473	.	426	17	efg
4 SHEPODY	.	495	603	315	212	406	15		294	471	.	.	.	.	.	.	.	-	-
5 A91186-2	373	548	381	184	361	369	17	cd	268	414	339	410	481	863	492	514	657	493	11	efgh
6 A91814-5	631	588	641	483	321	533	1	a	418	561	467	562	647	1235	727	718	748	676	3	abc
7 A92030-5	471	511	458	175	507	424	13	bcd	252	477	336	317	564	595	418	473	849	476	14	fgh
8 A92294-6	562	584	608	357	491	521	2	ab	348	554	526	549	814	1314	724	713	884	714	1	a
9 A9304-3	611	556	510	301	469	490	5	ab	322	492	371	475	621	972	572	579	711	568	7	def
10 A9305-10	443	604	559	186	469	452	9	abcd	403	544	495	552	641	1226	684	714	972	692	2	ab
11 A93157-6LS	566	545	507	367	378	473	6	abc	393	521	411	522	591	1097	551	627	824	615	4	bcd
12 AC92009-4Ru	256	449	483	219	342	350	18	d	213	338	301	406	398	1014	413	472	858	490	12	fgh
13 AC93026-9Ru	471	493	490	318	373	429	12	abcd	330	506	385	449	552	933	493	548	718	546	8	defg
14 ATX9202-1Ru	288	438	493	319	310	370	16	cd	277	384	331	306	459	688	443	490	701	453	15	gh
15 ATX92230-1Ru	518	485	467	281	467	444	11	abcd	264	411	361	428	590	729	523	518	908	526	9	defg
16 CO93001-11RU	525	430	514	.	421	472	7		272	373	331	398	295	411	314	497	964	428	16	h
17 CO93016-3RU	.	477	522	266	409	418	14		267	443	378	387	497	805	369	577	648	486	13	fgh
18 PA95A11-14	537	547	528	256	634	500	3	ab	.	.	.	.	.	.	.	.	.	-	-
19 TC1675-1Ru	493	483	493	387	403	452	9	abcd	286	476	318	341	608	710	483	544	684	494	10	efgh
Location Means	493	513	520	296	417	448			303	460	374	436	571	889	520	568	801	545		

Means followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test. Entry means with no letters were not included in Duncan's analyses due to incomplete representation at all sites.

TABLE 4: 2003 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 - Early Harvest (CWT/A) and %							U.S. No. 1's - Late Harvest (CWT/A) and %												
	CA	OR		TX	WA	Entry		CA	CO	ID		NM	OR		WA	Entry				
	KRN	HRM	MAL	SPR	PAS	Mean/Rank		TUL	SLV	AB	KIM	FRM ¹	HRM	KLM	MAL	OTH	Mean/Rank			
1 RANGER R.	493	435	324	273	362	378	10	ab	159	409	333	341	673	712	396	455	782	473	5	ab
	92	86	65	76	83	80	7		74	92	84	68	96	78	68	73	88	80	4	
2 R. BURBANK	369	280	378	98	247	274	17	b	161	422	158	302	683	464	419	224	545	375	12	cde
	85	51	63	38	63	60	13		49	85	51	71	87	49	66	44	67	63	10	
3 R. NORKOTAH	649	358	447	255	456	433	2	a	198	314	251	334	438	472	345	400	.	344	15	
	98	79	86	85	86	87	4		65	83	82	86	94	71	82	84	.	81	3	
4 SHEPODY	.	410	483	126	153	293	16		174	402	.	.	.	.	.	.	.	-	-
	.	83	80	40	72	69	11		59	85	.	.	.	.	.	.	.	-	-
5 A91186-2	358	456	294	168	306	316	13	ab	218	360	254	353	437	650	400	314	601	398	11	bcde
	96	83	77	91	85	86	5		81	87	75	86	91	75	81	63	91	81	3	
6 A91814-5	583	430	462	393	219	417	4	ab	323	444	311	443	602	856	605	523	543	517	3	a
	92	73	72	81	68	77	10		77	79	67	79	93	69	83	73	73	77	6	
7 A92030-5	457	441	393	154	448	379	9	ab	201	415	294	237	549	517	364	409	751	415	8	bcd
	97	86	86	88	88	89	2		80	87	88	75	97	87	87	86	88	86	2	
8 A92294-6	538	427	461	265	319	402	5	ab	228	435	377	386	709	695	538	450	740	507	4	a
	96	73	76	74	65	77	10		65	79	72	70	87	53	74	64	84	72	9	
9 A9304-3	596	470	414	280	419	436	1	ab	221	446	338	387	583	669	464	434	582	458	6	ab
	98	85	81	93	89	89	2		69	91	91	81	94	69	81	75	82	81	3	
10 A9305-10	422	507	462	159	395	389	8	ab	315	476	416	487	574	609	529	571	852	537	1	a
	95	84	83	85	84	86	5		78	88	84	88	90	50	77	80	88	80	4	
11 A93157-6LS	546	451	439	334	319	418	3	ab	351	450	350	469	542	877	463	548	729	531	2	a
	96	83	87	91	84	88	3		89	86	85	90	92	80	84	88	88	87	1	
12 AC92009-4Ru	239	408	408	200	292	309	14	ab	174	295	245	379	343	644	390	438	797	412	9	bcd
	94	91	84	91	85	89	2		82	87	81	93	86	64	94	93	93	86	2	
13 AC93026-9Ru	449	331	402	203	299	337	12	ab	236	404	250	350	459	511	419	401	615	405	10	bcde
	95	67	82	64	80	78	9		71	80	65	78	83	55	85	73	86	75	7	
14 ATX9202-1Ru	263	350	425	291	191	304	15	ab	151	313	261	245	419	569	303	424	629	368	13	de
	91	80	86	91	61	82	6		55	82	79	80	91	83	68	87	90	79	5	
15 ATX92230-1Ru	491	417	413	242	408	394	7	ab	219	360	298	356	534	624	438	456	819	456	7	abc
	95	86	88	86	87	88	3		83	88	83	83	91	86	84	88	90	86	2	
16 CO93001-11RU	483	290	424	.	318	379	9		153	283	254	314	211	292	256	402	785	328	16	e
	92	67	82	.	76	79	8		56	76	77	79	72	71	82	81	81	75	7	
17 CO93016-3RU	.	306	387	107	285	271	18		180	362	269	299	413	499	260	408	516	356	14	de
	.	64	74	40	70	62	12		68	82	71	77	83	62	71	71	80	74	8	
18 PA95A11-14	507	415	375	183	517	399	6	ab	.	.	.	.	.	.	.	.	.	.	.	.
	94	76	71	71	82	79	8		.	.	.	.	.	.	.	.	.	.	.	.
19 TC1675-1Ru	465	258	428	332	276	352	11	ab	177	395	227	276	523	522	406	491	568	398	11	bcde
	94	53	87	86	69	78	9		62	83	71	81	86	74	84	90	83	79	5	
Location Means	465	392	412	226	328	362			213	388	287	350	511	599	411	432	678	428		
	94	76	80	76	78	80			70	84	77	80	89	69	80	77	85	79		

Means followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test. Entry means with no letters were not included in Duncan's analyses due to incomplete representation at all sites.

¹FRM graded by size: > 1 7/8".

TABLE 5: 2003 Western Regional Potato Variety Trial - YIELD > 10/12 OZ [CWT/A (upper) & % (lower)] - EARLY AND LATE HARVEST

No. Clone	U.S. No. 1's > 10/12 OZ - Early Harvest (CWT/A) and %							U.S. No. 1's > 10/12 OZ - Late Harvest (CWT/A) and %												
	CA	OR			TX	WA	Entry	CA	CO	ID		NM	OR			WA	Entry			
	KRN	HRM	MAL	SPR	PAS	Mean/Rank	TUL	SLV	AB	KIM	FRM ¹	HRM	KLM	MAL	OTH	Mean/Rank				
1 RANGER R.	58	89	117	150	109	104	4	b	58	182	122	246	98	430	190	223	477	225	2	ab
	11	18	23	41	25	24	4		27	41	31	49	14	47	32	35	54	37	3	
2 R. BURBANK	6	17	35	29	23	22	17	e	22	174	13	116	63	142	99	17	232	97	12	de
	1	3	6	11	6	6	17		7	35	4	27	8	15	16	3	29	16	12	
3 R. NORKOTAH	77	31	58	108	100	75	10	bcde	55	99	24	150	32	85	129	61	.	79	14	
	12	7	11	36	19	17	10		18	26	8	39	7	13	31	13	.	19	10	
4 SHEPODY	.	145	249	60	28	121	3		54	249	.	.	.	.	.	.	.	-	-
	.	29	41	19	13	26	3		18	53	.	.	.	.	.	.	.	-	-
5 A91186-2	2	11	33	57	58	32	14	cde	67	136	6	122	9	271	157	58	235	118	9	cde
	1	2	9	31	16	12	14		25	33	2	30	2	31	32	11	36	22	8	
6 A91814-5	93	29	22	167	16	65	11	bcde	109	189	24	85	148	182	250	40	138	129	7	cde
	15	5	3	35	5	13	13		26	34	5	15	23	15	34	6	18	20	9	
7 A92030-5	141	201	186	72	190	158	2	a	85	260	90	140	123	251	180	199	536	207	4	ab
	30	39	41	41	37	38	1		34	55	27	44	22	42	43	42	63	41	2	
8 A92294-6	39	16	26	36	29	29	15	de	44	122	17	40	34	348	127	60	260	117	10	cde
	7	3	4	10	6	6	17		13	22	3	7	4	26	18	8	29	15	13	
9 A9304-3	216	174	169	178	134	174	1	a	132	270	149	270	87	487	288	232	334	250	1	a
	35	31	33	59	29	37	2		41	55	40	57	14	50	50	40	47	44	1	
10 A9305-10	31	121	108	58	117	87	6	bcd	148	194	67	226	33	382	274	219	433	219	3	ab
	7	20	19	31	25	20	8		37	36	14	41	5	31	40	31	44	31	5	
11 A93157-6LS	59	78	78	163	42	84	7	bcd	202	169	37	183	26	501	253	279	320	219	3	ab
	10	14	15	45	11	19	9		51	32	9	35	4	46	46	44	39	34	4	
12 AC92009-4Ru	5	114	61	101	97	76	9	bcde	66	107	5	130	9	282	207	210	525	171	5	bc
	2	25	13	46	28	23	5		31	32	2	32	2	28	50	44	61	31	5	
13 AC93026-9Ru	46	31	102	67	81	65	11	bcd	67	131	21	116	39	193	131	190	250	126	7	cde
	10	6	21	21	22	16	11		20	26	5	26	7	21	27	35	35	22	8	
14 ATX9202-1Ru	18	95	91	144	40	78	8	bcde	41	123	22	75	31	221	137	155	241	116	11	cde
	6	22	19	45	13	21	7		15	32	7	25	7	32	31	32	34	24	7	
15 ATX92230-1Ru	41	48	83	114	159	89	5	bc	104	150	19	77	29	212	218	148	474	159	6	bcd
	8	10	18	41	34	22	6		39	36	5	18	5	29	42	28	52	28	6	
16 CO93001-11RU	41	0	39	.	11	23	16		4	87	5	88	3	8	45	49	377	74	15	e
	8	0	7	.	3	4	18		1	23	2	22	1	2	14	10	39	13	15	
17 CO93016-3RU	.	9	45	14	59	32	14		43	139	32	65	15	65	66	54	120	67	16	e
	.	2	9	5	14	8	16		16	31	8	17	3	8	18	9	19	14	14	
18 PA95A11-14	28	67	33	23	136	57	13	bcde	.	.	.	.	.	.	.	.	.	-	-
	5	12	6	9	21	11	15		.	.	.	.	.	.	.	.	.	-	-
19 TC1675-1Ru	46	11	75	147	21	60	12	bcde	19	155	34	74	32	102	114	137	169	93	13	de
	9	2	15	38	5	14	12		7	33	11	22	5	14	24	25	25	18	11	
Location Means	56	68	85	94	76	75			73	163	40	130	48	245	169	137	320	145		
	10	13	17	31	18	18			24	35	11	30	8	27	32	25	39	25		

Means followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test. Entry means with no letters were not included in Duncan's analyses due to incomplete representation at all sites.

¹FRM graded by size: > 3".

TABLE 6: 2003 Western Regional Potato Variety Trial - YIELD < 4 OZ [CWT/A (upper) & % (lower)] - EARLY AND LATE HARVEST

No. Clone	Yield < 4 OZ - Early Harvest (CWT/A) and %								Yield < 4 OZ - Late Harvest (CWT/A) and %											
	CA	OR			TX	WA	Entry		CA	CO	ID		NM	OR			WA	Entry		
	KRN	HRM	MAL	SPR	PAS	Mean	Rank	TUL	SLV	AB	KIM	FRM ¹	HRM	KLM	MAL	OTH	Mean	Rank		
1 RANGER R.	19	42	26	25	56	34	11	ef	36	21	15	10	44	0	21	19	41	23	16	g
	4	8	5	7	13	7	13		17	5	4	2	6	0	4	3	5	5	13	
2 R. BURBANK	14	132	72	25	64	61	6	bcde	66	61	56	22	113	104	43	58	68	66	7	de
	3	24	12	10	16	13	7		20	12	18	5	14	11	7	10	8	12	7	
3 R. NORKOTAH	13	90	48	40	59	50	7	cdef	67	55	48	18	35	84	20	45	.	46	9	
	2	20	9	13	11	11	9		22	15	16	5	7	13	5	9	.	11	8	
4 SHEPODY	.	47	17	11	45	30	14		32	38	.	.	.	.	.	.	.	-	-
	.	9	3	4	21	9	11		11	8	.	.	.	.	.	.	.	-	-
5 A91186-2	15	74	27	15	40	34	11	ef	31	52	83	20	46	41	23	42	42	42	11	fg
	4	14	7	8	11	9	11		12	13	24	5	10	5	8	6	6	10	9	
6 A91814-5	11	140	149	78	97	95	2	a	66	76	122	59	67	186	49	143	102	97	1	a
	2	24	23	16	30	19	3		16	14	26	10	10	15	7	20	14	15	4	
7 A92030-5	14	60	25	16	44	32	13	ef	27	38	22	15	38	43	16	28	28	28	14	fg
	3	12	6	9	9	8	12		11	8	7	5	7	7	4	6	3	6	12	
8 A92294-6	24	142	70	37	112	77	4	abc	89	101	74	50	108	203	51	43	84	89	3	abc
	4	24	11	10	23	15	5		26	18	14	9	13	15	7	6	9	13	6	
9 A9304-3	11	40	13	22	38	25	16	f	26	15	13	10	52	32	6	9	52	24	15	g
	2	7	3	7	8	5	14		8	3	4	2	8	3	1	1	7	4	14	
10 A9305-10	20	70	39	23	63	43	9	def	34	48	63	24	72	83	21	35	59	49	8	ef
	4	12	7	12	13	10	10		8	9	13	4	11	7	3	5	6	7	11	
11 A93157-6LS	15	80	24	24	57	40	10	ef	25	46	33	15	54	62	20	24	48	36	12	fg
	3	15	5	7	15	9	11		6	9	8	3	9	6	4	4	6	6	12	
12 AC92009-4Ru	14	27	26	17	47	26	15	f	19	37	55	17	57	82	15	18	28	36	12	fg
	5	6	5	8	14	8	12		9	11	18	4	14	8	4	4	3	8	10	
13 AC93026-9Ru	22	133	53	36	61	61	6	bcde	59	85	103	43	100	92	43	29	65	69	6	cde
	5	27	11	11	16	14	6		18	17	27	10	18	10	9	5	9	14	5	
14 ATX9202-1Ru	23	73	43	28	54	44	8	def	50	55	44	32	47	70	29	25	49	44	10	fg
	8	17	9	9	17	12	8		18	14	13	10	10	10	7	5	7	11	8	
15 ATX92230-1Ru	20	55	14	32	44	33	12	ef	26	38	33	28	60	44	17	24	43	35	13	fg
	4	11	3	11	9	8	12		10	9	9	7	10	6	3	5	5	7	11	
16 CO93001-11RU	42	128	50	.	90	77	4		116	76	67	40	85	108	40	67	72	75	4	bcd
	8	30	10	.	21	17	4		43	20	20	10	29	26	13	13	7	20	1	
17 CO93016-3RU	.	153	86	77	108	106	1		73	74	90	57	87	217	45	80	96	91	2	ab
	.	32	17	29	26	26	1		27	17	24	15	18	27	12	14	15	19	2	
18 PA95A11-14	18	113	75	64	89	72	5	abcd	.	.	.	.	.	.	.	.	.	-	-
	3	21	14	25	14	15	5		.	.	.	.	.	.	.	.	.	-	-
19 TC1675-1Ru	26	206	53	47	120	90	3	ab	92	67	78	37	90	111	45	43	73	71	5	bcd
	5	43	11	12	30	20	2		32	14	25	11	15	16	9	8	11	16	3	
Location Means	19	95	48	34	68	54			52	55	59	29	68	92	30	43	59	54		
	4	19	9	12	17	12			17	12	16	7	12	11	6	7	8	11		

Means followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test. Entry means with no letters were not included in Duncan's analyses due to incomplete representation at all sites.

¹FRM graded by size: <1 7/8".

TABLE 7: 2003 Western Regional Potato Variety Trial - SPECIFIC GRAVITY - EARLY AND LATE HARVEST

No. Clone	Specific Gravity - Early Harvest							Specific Gravity - Late Harvest												
	CA	OR		TX	WA	Entry	CA	CO	ID		NM	OR		WA	Entry					
	KRN	HRM	MAL	SPR	PAS	Mean/Rank	TUL	SLV	AB	KIM	FRM	HRM	KLM	MAL	OTH	Mean/Rank				
1 RANGER R.	1.070	1.073	1.096	1.072	1.081	1.079	8	abcd	1.072	1.086	1.085	1.088	1.092	1.073	1.086	1.096	1.087	1.085	4	bcde
2 R. BURBANK	1.089	1.079	1.077	1.067	1.079	1.078	9	abcd	1.090	1.085	1.072	1.078	1.087	1.069	1.082	1.070	1.074	1.079	8	h
3 R. NORKOTAH	1.075	1.072	1.074	1.064	1.076	1.072	12	d	1.091	1.078	1.070	1.066	1.081	1.063	1.065	1.069	.	1.073	9	
4 SHEPODY	.	1.071	1.085	1.072	1.084	1.078	9		1.087	1.083	.	.	.	.	.	.	.	1.085		
5 A91186-2	1.092	1.075	1.083	1.074	1.078	1.080	6	abc	1.080	1.082	1.077	1.083	1.083	1.068	1.078	1.082	1.077	1.079	8	gh
6 A91814-5	1.084	1.071	1.094	1.078	1.096	1.085	2	ab	1.095	1.083	1.092	1.099	1.095	1.070	1.090	1.090	1.087	1.089	2	ab
7 A92030-5	1.089	1.080	1.092	1.075	1.081	1.083	4	abc	1.081	1.086	1.081	1.085	1.091	1.073	1.082	1.089	1.073	1.082	6	efgh
8 A92294-6	1.092	1.080	1.092	1.063	1.093	1.084	3	abc	1.096	1.092	1.087	1.096	1.097	1.076	1.094	1.093	1.090	1.091	1	a
9 A9304-3	1.086	1.077	1.094	1.070	1.082	1.082	5	abc	1.090	1.082	1.082	1.086	1.094	1.073	1.088	1.090	1.076	1.085	4	cde
10 A9305-10	1.090	1.070	1.085	1.073	1.078	1.079	7	abcd	1.083	1.083	1.082	1.086	1.089	1.070	1.083	1.087	1.081	1.083	5	efgh
11 A93157-6LS	1.090	1.082	1.092	1.073	1.092	1.086	1	a	1.096	1.088	1.085	1.094	1.091	1.076	1.085	1.097	1.087	1.089	2	abc
12 AC92009-4Ru	1.088	1.076	1.098	1.090	1.079	1.086	1	a	1.090	1.086	1.087	1.089	1.096	1.078	1.085	1.095	1.076	1.087	3	bcd
13 AC93026-9Ru	1.086	1.073	1.086	1.066	1.076	1.077	10	bcd	1.082	1.081	1.077	1.086	1.090	1.068	1.079	1.085	1.074	1.080	7	fgh
14 ATX9202-1Ru	1.092	1.071	1.091	1.074	1.074	1.080	6	abc	1.090	1.091	1.083	1.082	1.093	1.067	1.077	1.085	1.078	1.083	5	defg
15 ATX92230-1Ru	1.091	1.078	1.085	1.070	1.078	1.080	6	abc	1.085	1.080	1.078	1.082	1.088	1.069	1.075	1.085	1.071	1.079	8	fgh
16 CO93001-11RU	1.083	1.072	1.079	.	1.080	1.078	9		1.073	1.071	1.071	1.068	1.079	1.063	1.067	1.074	1.063	1.070	10	i
17 CO93016-3RU	.	1.081	1.083	1.057	1.082	1.076	11		1.096	1.086	1.077	1.085	1.090	1.064	1.078	1.088	1.086	1.083	5	def
18 PA95A11-14	1.079	1.074	1.081	1.069	1.077	1.076	11	cd	.	.	.	.	.	.	.	.	.	.	.	.
19 TC1675-1Ru	1.086	1.081	1.100	1.075	1.084	1.085	2	ab	1.093	1.091	1.081	1.088	1.095	1.087	1.085	1.095	1.084	1.089	2	abc
Location Means	1.086	1.076	1.088	1.071	1.082	1.080			1.087	1.084	1.080	1.085	1.090	1.071	1.081	1.086	1.079	1.083		

Means followed by the same letter are not significantly different at the 5% level using Duncan's multiple range test. Entry means with no letters were not included in Duncan's analyses due to incomplete representation at all sites.

TABLE 8: 2003 Western Regional Potato Variety Trial - AVERAGE TUBER SIZE, AND TUBER SHAPE

No. Clone	Average Tuber Size (oz)										Tuber Shape (1-5 length/width ratio: 1=round, 5=long)														
	Early Trial					Late Trial					Early Trial						Late Trial								
	OR HRM	TX SPR	WA PAS	Mean	CA TUL	ID AB	OR KIM	WA HRM	OTH	Mean	CA KRN	OR HRM	TX MAL	WA SPR	PAS	Mean	CA TUL	CO SLV	ID AB	KIM	OR HRM	KLM	MAL	OTH	Mean
1 RANGER R.	6.3	6.6	6.7	6.5	8.2	8.7	13.5	9.9	11.0	10.8	3.7	5.0	5.0	4.5	5.0	4.6	3.5	5.0	5.0	4.8	5.0	5.0	5.0	4.2	4.7
2 R. BURBANK	4.8	5.7	5.8	5.4	6.9	5.7	8.9	6.7	8.4	7.4	3.7	4.2	5.0	5.0	4.0	4.4	3.8	4.0	4.0	4.0	5.0	5.0	5.0	4.0	4.3
3 R. NORKOTAH	5.1	6.0	6.6	5.9	7.4	5.7	9.5	7.1	.	7.4	4.0	4.6	5.0	4.5	4.0	4.4	3.8	5.0	4.0	4.0	5.0	4.5	5.0	.	4.5
4 SHEPODY	6.8	7.4	5.6	6.6	7.8	.	.	.	.	.	.	3.4	4.6	3.5	3.0	3.6	3.8	4.0	.	.	.	.	.	.	3.9
5 A91186-2	5.6	6.0	6.7	6.1	6.5	4.4	8.1	7.9	8.3	7.2	4.0	5.0	5.0	5.0	4.0	4.6	4.0	5.0	4.0	4.5	5.0	5.0	5.0	4.0	4.6
6 A91814-5	4.6	5.2	4.6	4.8	6.8	4.5	6.7	5.8	6.4	5.9	3.3	2.2	2.2	2.1	1.5	2.3	1.5	3.0	1.3	1.3	2.3	1.8	2.6	1.0	1.9
7 A92030-5	6.8	7.1	7.9	7.3	9.0	8.0	9.6	8.9	12.7	9.8	4.0	3.8	4.6	3.5	3.5	3.9	3.3	5.0	4.0	3.5	3.9	3.0	3.8	3.0	3.7
8 A92294-6	4.6	5.4	5.1	5.0	6.9	5.6	7.0	10.0	7.5	7.5	3.0	4.6	5.0	5.0	3.0	4.1	2.8	4.0	4.0	4.0	5.0	4.0	5.0	3.0	4.0
9 A9304-3	7.3	8.3	7.7	7.8	9.7	9.2	12.3	11.9	9.4	10.7	4.0	5.0	5.0	5.0	4.3	4.7	4.0	4.0	5.0	4.5	5.0	5.0	5.0	4.0	4.6
10 A9305-10	6.1	5.4	6.6	6.0	9.5	6.1	9.3	9.3	8.9	8.4	3.0	3.4	5.0	4.5	3.2	3.8	3.5	4.0	3.8	4.0	5.0	4.8	5.0	3.0	4.1
11 A93157-6LS	5.8	8.0	5.9	6.6	9.9	6.5	9.0	9.3	8.7	8.4	3.8	4.6	5.0	4.5	3.7	4.3	3.8	4.0	3.8	3.8	5.0	4.0	5.0	3.0	4.0
12 AC92009-4Ru	7.0	6.9	6.6	6.8	8.6	4.9	8.6	13.2	11.0	9.4	3.8	4.2	4.6	4.9	5.0	4.5	3.8	5.0	4.0	3.5	4.2	4.0	4.6	3.0	4.0
13 AC93026-9Ru	4.7	5.3	6.3	5.4	7.6	4.7	7.1	7.2	7.8	6.7	4.0	4.2	5.0	5.0	5.0	4.6	4.0	5.0	4.5	4.3	5.0	4.5	5.0	4.3	4.6
14 ATX9202-1Ru	5.5	7.2	6.1	6.3	7.8	6.0	7.3	7.2	8.0	7.1	2.8	5.0	5.0	4.4	4.0	4.2	3.5	4.0	3.5	3.5	5.0	4.8	5.0	3.7	4.1
15 ATX92230-1Ru	5.9	6.8	7.6	6.8	9.0	6.0	7.7	8.1	10.0	8.0	3.2	3.4	5.0	3.8	3.3	3.7	3.5	4.0	3.0	3.0	3.8	3.5	4.6	3.0	3.6
16 CO93001-11RU	4.2	.	5.0	4.6	5.9	4.5	6.9	4.7	8.6	6.2	4.0	4.2	5.0	.	3.7	4.2	3.0	5.0	3.5	4.3	4.5	4.8	5.0	3.0	4.1
17 CO93016-3RU	4.2	3.3	5.1	4.2	7.4	4.8	6.2	5.0	6.2	5.6	.	4.2	5.0	4.3	4.0	4.4	3.5	4.0	4.0	4.0	4.1	4.0	5.0	4.0	4.1
18 PA95A11-14	4.9	4.1	6.4	5.1	.	.	.	.	.	.	2.7	3.8	5.0	4.1	3.3	3.8	.	.	.	.	.	.	.	.	.
19 TC1675-1Ru	3.9	5.8	4.6	4.8	6.7	4.8	7.2	5.8	7.0	6.2	3.0	4.2	4.6	4.5	3.0	3.9	4.0	4.0	3.8	3.0	4.7	4.3	3.8	2.7	3.8
Location Means	5.5	6.1	6.2	5.9	7.9	5.9	8.5	8.1	8.7	7.8	3.5	4.2	4.8	4.3	3.7	4.1	3.5	4.3	3.8	3.8	4.6	4.2	4.7	3.3	4.0

TABLE 9: 2003 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	4.8	4.6	4.8	4.3 MAL 2.5	3.2	4.9	4.2 OTH 1.0
2 R. BURBANK	3.8 PAS 2.0	3.7 OTH 2.0	3.5 PAS 2.0	3.2 OTH 2.7	4.4	4.1 MAL 1.8	3.0	5.0	4.7
3 R. NORKOTAH	5.0	5.0	5.0	4.7	4.8	4.3	3.4	4.9	5.0
4 SHEPODY	4.9	5.0	4.8	4.0	4.1 PAS 2.3	.	.	4.1 PAS 2.3	.
5 A91186-2	4.7	4.6	5.0	4.8	4.7	4.1	3.3	5.0	4.8
6 A91814-5	5.0	4.3	5.0	4.9	4.4	4.4	3.6	4.2	3.6 OTH 1.0
7 A92030-5	4.9	4.5	5.0	4.7	4.8	3.4 MAL 1.5	3.3	5.0	4.5
8 A92294-6	5.0	3.5 AB 2.8 KIM 2.5	5.0	4.9	4.3 PAS 2.8	4.1 MAL 2.5	3.0	4.9	3.7 OTH 1.0
9 A9304-3	4.8	4.6	4.7	3.7 SLV 3.0	4.6	4.1 MAL 2.0	2.8	5.0	4.6 OTH 2.3
10 A9305-10	5.0	4.5	4.9	4.5	4.7	4.1	3.0	5.0	4.5 OTH 2.0
11 A93157-6LS	5.0	4.2	5.0	4.8	4.9	4.1 MAL 2.3	3.3	5.0	4.6
12 AC92009-4Ru	5.0	5.0	5.0	5.0	4.8	4.0	3.6	5.0	4.6
13 AC93026-9Ru	4.9	4.5	5.0	4.6	4.7	4.0	2.8	4.9	4.9
14 ATX9202-1Ru	3.9 PAS 2.7	4.3	4.9	4.4	4.8	4.1 MAL 1.8	3.6	5.0	4.4 OTH 1.3
15 ATX92230-1Ru	4.5	3.7	4.9	4.9	4.2	3.2 HRM 2.5	2.8	5.0	4.5 OTH 2.0
16 CO93001-11RU	4.9	4.8	5.0	5.0	3.2 PAS 1.3	4.0 MAL 1.8	3.2	5.0	4.7
17 CO93016-3RU	5.0	4.9	5.0	5.0	4.8	4.1 MAL 2.3	3.5	5.0	4.9
18 PA95A11-14	4.6	.	3.8 PAS 2.7	.	4.4	.	.	4.9	.
19 TC1675-1Ru	4.9	4.7	5.0	4.8	4.8	4.0 MAL 1.5	3.5	5.0	4.8
Entry Means	4.8	4.5	4.8	4.6	4.5	4.0	3.2	4.9	4.5

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: 2003 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
	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	
1 RANGER R.	0	5 TUL 33	1	1	23 *SPR 68	5	4.6	3.8	2.5
2 R. BURBANK	1	6	0	4 OTH 14	3	4	3.8 PAS 1.5	4.2	3.1
3 R. NORKOTAH	0	5 KLM 33	0	0	6	3	4.7	4.4	2.8
4 SHEPODY	1	1	0	.	14	.	5.0	3.5 SLV 3.5	.
5 A91186-2	3	0	0	1	18 *SPR 55	2	4.9	3.4 HRM 2.0	3.1
6 A91814-5	0	0	3 PAS 13	0	16 *SPR 48	3	4.3	4.4	3.3
7 A92030-5	1	11 TUL 33 KLM 28	0	1	16 *SPR 45	3	4.9	3.6	2.4
8 A92294-6	2	1	0	2	23 *SPR 68	5	4.9	3.8	2.6
9 A9304-3	6 KRN 25	8 TUL 33	0	5 HRM 19	4	1	4.4	4.4	3.3
10 A9305-10	0	0	0	2	22 *SPR 63	13 AB 18 KLM 20	4.7	4.7	2.9
11 A93157-6LS	0	23 TUL 58 KLM 60	0	0	7	0	4.7	3.3 HRM 1.0	2.4
12 AC92009-4Ru	0	2	0	1	8	4	4.7	4.0	2.8
13 AC93026-9Ru	0	6	0	1	9	2	4.6	4.2 SLV 2.7	2.3
14 ATX9202-1Ru	9 KRN 17	2	3 PAS 13	10 OTH 49	17 *SPR 50	10 AB 20	5.0	4.5	3.5
15 ATX92230-1Ru	4 KRN 17	11 TUL 67	0	1	15 *SPR 43	2	5.0	4.6	3.4
16 CO93001-11RU	0	1	0	1	1	0	5.0	4.7	2.8
17 CO93016-3RU	1	17 TUL 50 KLM 38	0	3	9	1	5.0	3.6 SLV 3.1	3.1
18 PA95A11-14	1	0	0	.	12 *SPR 35	.	5.0	.	.
19 TC1675-1Ru	0	3	2	9 OTH 26	21 *SPR 63	6	4.6	4.4	2.7
Entry Means	1	5	1	2	13	4	4.7	4.1	2.9

¹Individual trial sites with relatively extreme values are listed to the 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)].

TABLE 11: 2003 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		SLV	AB	KIM	HRM	MAL	KLM	OTH		AB	KIM	OTH		AB	KIM	HRM	KL	M		MAL
L	E	E	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
1 RANGER R.	2.0	0.0	0.0	0.0	0.5	2.0	1.4	1.9	0.7	1.0	1.0	1.0	1.3	3.5	3.6	3.0	3.4	34	46	0	0	0	0	16
2 R. BURBANK	2.0	0.3	0.1	0.0	0.6	3.0	1.9	2.2	1.6	1.5	1.0	2.0	1.9	3.8	3.6	3.0	3.5	44	58	0	35	20	45	31
3 R. NORKOTAH	3.0	0.2	0.0	.	1.1	3.0	2.9	2.2	0.8	2.0	1.0	.	2.0	4.0	4.0	.	4.0	75	54	0	0	0	13	26
4 SHEPODY	1.0	0.0	0.0	.	0.3	4.0	.	.	.	.	.	.	4.0	.	.	.	.	.	.	0	.	.	.	0
5 A91186-2	2.0	0.0	0.0	0.0	0.5	2.0	1.0	1.5	0.2	0.1	1.5	0.0	0.9	2.6	3.4	1.0	2.3	29	9	0	8	0	3	9
6 A91814-5	2.0	0.0	0.0	0.0	0.5	2.0	0.2	0.4	0.5	0.0	0.0	0.0	0.4	1.3	1.5	0.0	0.9	4	8	0	8	0	0	4
7 A92030-5	2.0	0.0	0.0	0.0	0.5	3.0	1.9	1.9	0.0	0.0	1.5	0.0	1.2	3.3	3.7	2.0	3.0	13	21	0	0	0	0	7
8 A92294-6	1.0	0.0	0.0	0.0	0.3	2.0	0.5	0.5	1.0	0.0	0.0	0.0	0.6	2.5	2.6	1.0	2.0	56	25	0	15	0	3	19
9 A9304-3	2.0	0.0	0.0	0.0	0.5	2.0	1.0	1.7	0.7	0.0	0.5	0.0	0.8	3.4	3.6	1.0	2.7	4	17	0	0	0	0	4
10 A9305-10	2.0	0.0	0.0	0.0	0.5	1.0	1.1	0.7	0.8	0.0	0.0	0.0	0.5	2.2	3.0	1.0	2.1	8	0	0	5	0	0	3
11 A93157-6LS	1.0	0.0	0.0	0.0	0.3	1.0	0.2	0.5	0.6	0.1	0.0	0.0	0.3	1.3	2.2	0.0	1.2	21	4	0	3	0	0	6
12 AC92009-4Ru	3.0	0.1	0.0	0.0	0.8	3.0	1.2	2.4	0.5	0.1	1.5	1.0	1.4	3.0	3.7	3.0	3.2	38	50	3	8	0	0	20
13 AC93026-9Ru	3.0	0.0	0.0	0.0	0.8	4.0	2.0	2.3	1.2	1.0	2.0	.	2.1	3.9	3.7	.	3.8	96	67	0	5	30	33	40
14 ATX9202-1Ru	2.0	0.0	0.0	0.0	0.5	3.0	1.4	1.7	0.8	0.0	1.5	2.0	1.5	3.1	3.0	3.0	3.0	17	29	0	0	0	13	9
15 ATX92230-1Ru	3.0	0.2	0.0	0.0	0.8	3.0	0.9	1.2	0.0	0.0	1.0	.	1.0	2.5	3.3	.	2.9	17	17	0	3	0	0	7
16 CO93001-11RU	1.0	0.0	0.0	0.0	0.3	1.0	0.9	1.4	0.1	0.1	0.0	1.0	0.6	3.8	4.0	3.0	3.6	9	33	0	0	0	0	8
17 CO93016-3RU	2.0	0.0	0.0	1.0	0.8	2.0	1.6	1.6	2.2	1.5	1.5	2.0	1.8	4.0	3.7	3.0	3.6	71	33	0	20	0	35	25
18 PA95A11-14	.	0.1	0.0	.	0.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	.	.	.	3
19 TC1675-1Ru	1.0	0.0	0.0	0.0	0.3	1.0	0.8	0.9	0.1	0.0	0.0	0.0	0.4	3.5	3.5	1.0	2.7	9	4	0	0	0	0	3
Location Means	1.9	0.0	0.0	0.1	0.5	2.3	1.2	1.5	0.7	0.4	0.8	0.6	1.3	3.0	3.3	1.8	2.8	32	28	6	3	8	13	

Storage protocol prior to frying

Aberdeen - ~6 weeks from 55F to 40F and 45F, and ~7 weeks @ 40F and 45F.

Hermiston - ~2 weeks from 55F to 45F, and ~8 weeks @45F.

Kimberly - ~6 weeks from 55F to 40F and 45F, and ~7 weeks @ 40F and 45F.

Klamath - ~4 weeks @ ~56F.

Malheur (Late) - ~1 week from 57F to 45F, and ~4 weeks @ 45F.

Othello - ~2 weeks from 48F to 40F and 45 F, and ~6 weeks @ 40F and 45F.

San Luis Valley - ~2 weeks from 55F to 45F, and ~ 9 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/~fuller)
Contact: Rick Knowles.

TABLE 12: 2003 Western Regional Potato Variety Trial - DISEASE EVALUATION AND METRIBUZIN REACTION

No. Clone	Vert. Wilt/Early Dying		Early Blight ¹	Late Blight				Common Scab ¹	% Net		Prosser		Fusarium		Erwinia Soft Rot ¹	Metribuzin Reaction ⁷
	AB ¹	HRM ²		Corvallis ³		Mount Vernon ⁴			Necrosis		% Corky	Root-	Dry Rot ¹	F _{s(0-5)} F _c		
	(0-9)	(0-9)	(1-9)	% by Wt.	Incid.	Sev.	(1-5)	AB ¹	HRM ²	Rngspt ⁵	knot ⁶	F _{s(0-5)} F _c	(0-5)	AB		
1 RANGER R.	4.3	6.6	5.3	9.0	25.0	80	49	1.7	12	22.5	26.7	S	2.6	3.5	1.4	MS
2 R. BURBANK	-	8.9	-	9.0	10.0	87	73	-	16	2.5	35.0	S	-	-	-	R
3 R. NORKOTAH	8.7	-	8.0	9.0	23.0	-	-	1.3	29	-	13.3	S	-	-	-	VR
4 SHEPODY	6.0	-	6.8	9.0	23.0	-	-	4.3	8	-	66.7	S	2.5	3.0	1.7	VS
5 A91186-2	5.8	8.6	6.7	9.0	5.0	-	-	0.3	3	5.0	43.3	S	4.7	1.7	2.3	MS
6 A91814-5	3.5	5.8	6.2	9.0	20.0	-	-	4.0	6	2.5	26.7	S	3.3	3.1	1.6	S
7 A92030-5	6.8	8.8	6.7	9.0	20.0	-	-	1.7	10	22.5	10.0	S	2.9	2.9	1.3	MR
8 A92294-6	2.5	5.3	5.0	9.0	3.0	-	-	3.3	0	12.5	36.7	S	2.1	3.7	2.5	R
9 A9304-3	4.5	8.4	6.0	9.0	20.0	73	55	4.0	13	10.0	26.7	S	3.3	2.3	2.5	MS
10 A9305-10	3.5	5.3	5.2	9.0	19.0	-	-	0.3	12	32.5	56.7	S	3.3	2.5	2.6	R
11 A93157-6LS	4.2	3.0	5.0	9.0	18.0	93	64	0.0	7	12.5	46.7	S	4.8	3.3	0.8	MR
12 AC92009-4Ru	5.2	8.0	6.0	9.0	10.0	53	34	1.0	5	0.0	26.7	S	3.9	2.9	2.7	MR
13 AC93026-9Ru	4.2	7.6	5.8	9.0	18.0	-	-	0.0	-	5.0	26.7	S	1.5	2.1	3.9	VR
14 ATX9202-1Ru	5.8	8.5	6.0	9.0	18.0	-	-	1.0	18	22.5	50.0	S	4.5	3.8	2.7	R
15 ATX92230-1Ru	7.7	8.8	7.0	9.0	18.0	-	-	0.7	2	12.5	36.7	S	4.4	4.1	2.4	R
16 CO93001-11RU	8.5	9.0	8.0	9.0	30.0	-	-	0.7	-	0.0	36.7	S	1.7	2.8	1.2	MS
17 CO93016-3RU	4.3	7.3	6.0	9.0	3.0	-	-	2.0	-	2.5	63.3	S	2.7	3.6	3.2	R
18 PA95A11-14	-	-	-	9.0	15.0	87	54	-	0	-	3.3	S	-	-	-	MS
19 TC1675-1Ru	5.7	8.9	6.8	9.0	10.0	-	-	0.7	6	27.5	36.7	S	3.5	3.1	2.2	VR
Entry Means	5.4	7.4	6.3	9.0	16	79	55	1.6	9	12.0	35.2		3.2	3.0	2.2	
LSD (.05)	1.0		1.4					1.8					1.0	1.3	2.0	

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 Mount Vernon, Washington by Debbie Inglis; Tubers inoculated about 4 weeks after harvest.

⁵ Evaluations made at Prosser, Washington by Chuck Brown

⁶ Evaluations made at Prosser, Washington by Chuck Brown: R=resistant, MR=moderately resistant, MS=moderately susceptible, S=suceptible.

⁷ Evaluations made at Aberdeen, Idaho by Steve Love and Tom Salaiz: R=resistant, MR=moderately resistant, MS=moderately susceptible, S=suceptible.

TABLE 13: 2003 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	22.7	0.09	0.22	5.8	35.6	5.9
2 RUSSET BURBANK	19.3	0.08	0.16	5.6	22.3	5.0
3 RUSSET NORKOTAH	19.5	0.16	0.18	5.2	25.1	5.1
5 A91186-2	21.1	0.05	0.28	7.8	22.8	3.0
6 A91814-5	22.6	0.02	0.14	6.4	23.8	11.9
7 A92030-5	21.7	0.11	0.30	6.9	34.3	2.9
8 A92294-6	22.9	0.03	0.18	7.2	33.7	2.7
9 A9304-3	21.0	0.03	0.16	7.3	32.3	4.6
10 A9305-10	21.5	0.04	0.30	6.7	27.7	3.9
11 A93157-6LS	23.0	0.04	0.28	6.5	25.9	3.8
12 AC92009-4RU	23.3	0.08	0.26	6.7	32.9	5.5
13 AC93026-9RU	20.6	0.10	0.18	7.1	27.5	1.0
14 ATX9202-1RU	22.3	0.04	0.38	7.5	39.2	5.1
15 ATX92230-1RU	22.1	0.04	0.31	7.3	30.8	2.3
16 CO93001-11RU	20.3	0.07	0.12	5.7	26.7	5.6
17 CO93016-3RU	20.3	0.08	0.16	6.1	24.2	4.3
19 TC1675-1RU	21.0	0.05	0.27	7.6	28.6	2.0
Entry Means	21.5	0.07	0.23	6.7	29.0	4.4

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

² Glycoalkaloids: The 2003 Lenape check from Aberdeen was 18.7 mg/100g

TABLE 14: 2003 Western Regional Potato Variety Trial - MERIT SCORES [1-5(best)]

No. Clone	Process									Fresh												
	CO	ID		OR		WA	Entry	Mean/Rank	CA	CO	ID		OR		TX	WA	Entry	Mean/Rank				
	SLV	AB	KIM	HRM	KLM	OTH			KRN	TUL	SLV	AB	KIM	HRM	KLM	SPR			OTH			
L	L	L	E	L	L	L	E	L	L	L	L	E	L	L	E	L						
1 RANGER R.	4.0	3.5	3.2	3.0	4.0	4.0	3.0	3.5	3	3.2	3.0	4.0	3.3	2.8	4.0	2.0	2.0	3.4	4.0	3.0	3.1	7
2 R. BURBANK	3.0	2.5	3.0	1.0	1.0	3.9	1.0	2.2	13	3.3	2.8	4.0	2.0	2.8	2.0	1.0	3.5	2.3	1.0	1.0	2.3	17
3 R. NORKOTAH	1.0	1.5	1.2	5.0	3.0	1.0	.	2.1	14	3.7	3.0	1.0	4.3	3.8	4.0	4.0	3.0	3.1	4.0	.	3.4	2
4 SHEPODY	2.0	.	.	1.0	.	.	.	1.5	19	.	3.5	3.0	.	.	3.0	.	.	2.6	2.0	.	2.8	14
5 A91186-2	3.0	3.0	3.2	4.0	3.0	4.0	4.0	3.5	5	3.3	4.0	2.0	3.3	3.8	5.0	3.0	2.0	2.1	2.0	4.0	3.1	9
6 A91814-5	5.0	3.8	4.0	1.0	2.0	3.0	5.0	3.4	7	3.3	3.0	4.0	2.0	2.8	1.0	1.0	3.0	3.0	2.0	3.0	2.6	16
7 A92030-5	3.0	3.0	2.8	2.0	2.0	2.0	3.0	2.5	11	3.2	2.5	3.0	4.0	2.3	3.0	1.0	3.0	2.9	5.0	3.0	3.0	11
8 A92294-6	5.0	3.2	4.0	3.0	2.0	4.5	4.0	3.7	2	3.3	3.8	5.0	3.0	2.3	4.0	1.0	3.0	2.5	4.0	5.0	3.4	3
9 A9304-3	5.0	3.6	3.2	4.0	2.0	3.5	3.0	3.5	4	4.0	2.8	4.0	3.8	2.8	5.0	1.0	3.0	2.9	5.0	1.0	3.2	5
10 A9305-10	5.0	4.2	4.3	1.0	1.0	4.5	4.0	3.4	6	3.3	3.3	5.0	3.5	3.8	3.0	1.0	3.0	3.0	3.0	4.0	3.3	4
11 A93157-6LS	4.0	4.5	4.7	5.0	5.0	3.2	5.0	4.5	1	3.9	4.5	3.0	4.5	4.0	5.0	4.0	2.0	3.5	5.0	5.0	4.0	1
12 AC92009-4Ru	1.0	3.0	2.5	3.0	3.0	4.0	3.0	2.8	9	2.6	3.5	3.0	3.5	3.8	4.0	1.0	3.5	3.8	1.0	5.0	3.1	8
13 AC93026-9Ru	1.0	1.5	1.8	2.0	2.0	2.0	.	1.7	18	3.0	3.3	4.0	3.8	2.8	2.0	1.0	3.5	3.0	1.0	2.0	2.7	15
14 ATX9202-1Ru	1.0	3.0	3.0	4.0	3.0	2.5	2.0	2.6	10	2.3	3.0	3.0	3.5	3.0	4.0	5.0	2.0	3.4	1.0	1.0	2.8	13
15 ATX92230-1Ru	1.0	3.7	3.2	2.0	2.0	3.0	.	2.5	12	3.8	3.0	2.0	3.0	4.0	3.0	2.0	2.5	3.4	4.0	4.0	3.2	6
16 CO93001-11RU	3.0	2.8	1.3	2.0	1.0	1.0	3.0	2.0	15	3.0	3.0	1.0	3.8	3.0	2.0	1.0	1.0	.	2.0	2.0	2.2	19
17 CO93016-3RU	2.0	1.6	3.0	2.0	1.0	1.5	2.0	1.9	17	.	3.3	2.0	3.8	2.3	2.0	1.0	2.0	2.6	3.0	1.0	2.3	18
18 PA95A11-14	.	.	.	2.0	.	.	.	2.0	16	3.0	.	.	.	.	3.0	.	.	2.6	3.0	.	2.9	12
19 TC1675-1Ru	4.0	3.8	3.5	1.0	3.0	4.0	4.0	3.3	8	3.0	3.3	3.0	4.5	3.5	2.0	3.0	3.5	3.0	3.0	2.0	3.1	10
Location Means	2.9	3.1	3.0	2.7	2.4	3.1	3.3	2.8		3.3	3.2	3.2	3.4	3.2	3.4	1.9	2.7	3.0	2.9	3.1	3.0	

TABLE 15: 2003 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 2004
							Early	Late				Process	Fresh		
1	RANGER R.	-	Dual	586	473	80	6.5	10.8	Long	1.085	1.3	3.5	3.1		Check
2	R. BURBANK	-	Dual	588	375	63	5.4	7.4	Long	1.079	1.9	2.2	2.3		Check
3	R. NORKOTAH	-	Fresh	426	344	81	5.9	7.4	Long	1.073	2.0	2.1	3.4		Check
4	SHEPODY	-	Proc	406	293	69	6.6	.	Oblong	1.078	4.0	1.5	2.8		Check
5	A91186-2	1	Dual	493	398	81	6.1	7.2	Long	1.079	0.9	3.5	3.1	- Blackspot (Late) Fusarium (Fs)	-
6	A91814-5	1	Dehy/ Fry	676	517	77	4.8	5.9	Rnd-Obl	1.089	0.4	3.4	2.6	- Smaller tuber size, round-obl - Scab, Metribuzin-Susc.	
7	A92030-5	1	Dual	476	415	86	7.3	9.8	Obl-Lng	1.082	1.2	2.5	3.0	- Blackspot (Late) - Vert/Early Die	
8	A92294-6	1	Proc	714	507	72	5.0	7.5	Long	1.091	0.6	3.7	3.4	- Growth Cracks (Late), Scab Sugar Ends, Fusarium (Fc)	-
9	A9304-3	2	Dual	568	458	81	7.8	10.7	Long	1.085	0.8	3.5	3.2	- 2nd growth (Late)	
10	A9305-10	2	Dual	692	537	80	6.0	8.4	Obl-Lng	1.083	0.5	3.4	3.3	- Net Necrosis/VD	
11	A93157-6LS	1	Dual	615	531	87	6.6	8.4	Long	1.089	0.3	4.5	4.0	- HH (Late), Blackspot (Late) Fusarium (Fs)	-
12	AC92009-4Ru	2	Dual	490	412	86	6.8	9.4	Long	1.087	1.4	2.8	3.1	- Sugar Ends	
13	AC93026-9Ru	1	Fresh	546	405	75	5.4	6.7	Long	1.080	2.1	1.7	2.7	- Sugar Ends, Erwinia	
14	ATX9202-1Ru	2	Dual	453	368	79	6.3	7.1	Obl-Lng	1.083	1.5	2.6	2.8	- GC (Early), HH (Early), IBS - NN/VD, Fusarium	
15	ATX92230-1Ru	2	Fresh	526	456	86	6.8	8.0	Obl-Lng	1.079	1.0	2.5	3.2	- GC (Late), Shatter (Late) HH (Late), Vert/ED, Fusarium	-
16	CO93001-11RU	2	Dual	428	328	75	4.6	6.2	Long	1.070	0.6	2.0	2.2	- Smaller tuber size, Low SG (Late) - Shatter (Early), Vert/ED & EB	
17	CO93016-3RU	1	Dual	486	356	74	4.2	5.6	Long	1.083	1.8	1.9	2.3	- Smaller tuber size, HH (Late) - Blackspot (Late), Sugar Ends	
18	PA95A11-14	1	Fresh	500	399	79	5.1	.	Obl-Lng	1.076	.	2.0	2.9	- 2nd growth (Early)	
19	TC1675-1Ru	1	Dual	494	398	79	4.8	6.2	Obl-Lng	1.089	0.4	3.3	3.1	- Smaller tuber size; IBS (Late)	-
Entry Means				535	420	78	5.9	7.8		1.082	1.3	2.8	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 & PA95A11-14).