

2002 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

California

Colorado

Idaho

New Mexico

Oregon

Texas

Washington

State Experiment Stations and
USDA-ARS Cooperating



2002 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, and Corvallis, 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

Revision - 5/12/2003

Compiled by Brian Schneider

TABLE 1: 2002 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	Pesticides Applied ¹		
										Herbicides	Insecticides	Fungicides
1	Kern Co. California (KRN)	R. Voss, H. Phillips, J. Nunez	Early	Sprink.	280	20-Feb	26-Jun	108	126	Eptam 7E Prowl 3.3 EC		Bravo Weather Stick Quadris Curzate 60 df
										Mechanical		
2	Tulelake California (TUL)	R. Voss, H. Phillips, D. Kirby, H. Carlson	Late	Sprink.	160-20-0	5-May	23-Sep	131	141	Matrix Sencor		Curzate, Bravo Dithane
										Mechanical		
3	San Luis Valley Colorado (SLV)	D. Holm, P. Naranjo	Late	Pivot	140-70-40-18	16-May	30-Sep	110	137	Dual Magnum Prowl 3.3 EC Select 2 EC	Actara Leverage 2.7 Endosulfan 3 EC	Manex II, Quadris Bravo Weather Stick
										Sulfuric Acid		
4	Aberdeen Idaho (AB)	S. Love, R. Novy, D. Corsini	Late	Sprink.	250-120-40	29-Apr	17-Sep	127	141	Sencor DF Matrix Eptam 7E	Admire	Bravo Weatherstik
										Mechanical		
5	Kimberly Idaho (KIM)	S. Love, R. Novy, D. Corsini	Late	Sprink.	204-234-74	25-Apr	7-Oct	-	165	Eptam Sencor DF Matrix	Pounce Success	Bravo Weatherstik Acrobat Omega 500F
6	Clovis New Mexico (CLV)	J.D. Baker, C. Laing	Early	Sprink.	65-20-25-12	27-Mar	30-Jul	121	125	Prowl, Treflan		
										Mechanical		
7	Farmington New Mexico (FRM)	M. O'Neil, C. Owen	Late	Sprink.	310-104-120	29-Apr	5-Nov	-	190	Turbo		
8	Hermiston Oregon (HRM)	D. Hane, A. Mosley	Early Late	Pivot Pivot	285-80-250-40+ 330-80-250-40+	26-Mar 12-Apr	9-Aug 23-Sep	118 151	136 164	Eptam, Matrix	Mocap, Admire Monitor, Comite	Vapam, Bravo Ridomil Gold Dithane, Quadris
								Enquik	Enquik			
9	Klamath Falls Oregon (KLM)	K. Rykbost, B. Charlton	Late	Sprink.	160-80-80-140	23-May	27-Sep	105	127	Vapam Dual, Prowl	Di-Syston Montor	Tops MZ Ridomil Gold, Bravo Curzate, Dithane F-45
										Diquat		
10	Malheur Oregon (MAL)	C. Shock, E. Eldredge, Saunders	Early Late	Sprink. Sprink.	149-160-178-229+ 149-160-178-229+	16-Apr 19-Apr	21-Aug 17-Sep	120 144	127 151	Prowl Dual Matrix	Gaicho	Telone II, Sulfur Tops MZ, Bravo, Ridomil, Dithane
								Mech.	Mech.			
11	Springlake Texas (SPR)	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	133-28-28	20-Mar	6-Aug	135	139	Roundup Sencor	Leverage Gaicho	Tops Quadris, Bravo
										Mechanical		
12	Pasco (PAS) Othello (OTH) Washington	R. Thornton, N. Fuller, E. Driskill, R. Knowles G. Newberry	Early Late	Pivot Sprink.	275-180-150 340-242-129-115	21-Mar 1-May	10-Jul 23-Sep	106 139	111 145	Dual II, Sencor Prowl	Thimet, Asana Fulfill , Omega Success, Monitor	Quadris, Bravo Dithane, K-Pam, Gavel
										Reglone		Mech.

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

TABLE 2: 2002 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	Trial	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					
1	RUSSET BURBANK	W	Ck	Dual	E/L	-	OR	96	Long	4.3	Med Russet	3.6	Large	4.2	Medium	3.5	
2	RANGER RUSSET	Butte A6595-3	RP	Ck	Dual	E/L	-	OR	96	Long	4.6	Med Russet	3.6	Med-large	4.0	Med-late	3.8
3	RUSSET NORKOTAH	ND9687-5Russ ND9526-4Russ	W	Ck	Fresh	E/L	-	OR	96	Long	4.3	Med Hvy Rus	4.3	Medium	2.8	Early	2.1
4	SHEPODY	Bake-King F58050	RP	Ck	Proc	E	-	OR	95	Oblong	3.3	White	1.6	Med-large	3.6	Medium	3.5
5	A9045-7	Ranger Russet Russet Legend KSA195-90	MRP	ID	Dual	E/L	3	OR	95	Obl-Lng	3.9	Med Russet	3.2	Med-large	4.0	Med-late	3.7
6	A90586-11	Ranger Russet A83043-12	W	ID	Dual	E/L	3	OR	96	Long	4.1	Light Russet	2.0	Med-large	4.1	Med-late	4.0
7	A9304-3	A7961-1	W	ID	Dual	E/L	1	OR	92	Long	4.6	Med Russet	3.9	Med-large	3.8	Med-late	3.6
8	A9305-10	A83043-12 A85103-3	RP	ID	Dual	E/L	1	OR	94	Oblong	3.5	Light Russet	2.9	Med-large	4.0	Med-late	3.6
9	AC89536-5Ru	Butte A8469-5	LP	CO	Fresh	E/L	3	CO	95	Obl-Lng	3.8	Med Russet	3.8	Large	4.2	Med-late	3.8
10	AC92009-4Ru	A8343-12 A8784-3	W	CO	Dual	E/L	1	CO	87	Obl-Lng	3.9	Med Hvy Rus	4.2	Med-large	3.6	Med-late	3.9
11	ATX9202-1Ru	A8343-12 Gem Russet	W	TX	Dual	E/L	1	CO	80	Obl-Lng	4.0	Med Hvy Rus	4.3	Med-large	3.4	Medium	3.5
12	ATX92230-1Ru	A8603-13 Gem Russet	W	TX	Fresh	E/L	1	CO	95	Obl-Lng	3.6	Med Hvy Rus	4.1	Med-large	3.7	Medium	3.3
13	CO92077-5Ru	Russet Legend Silverton Russet	W	CO	Dual	E/L	1	CO	90	Long	4.1	Med Russet	3.6	Med-large	3.1	Medium	3.4
14	NDC5372-1Ru	ND4093-4Ru AO84275-3	W	CO	Dual	E/L	1	CO	94	Oblong	3.2	Med Russet	3.7	Med-large	3.3	Med-late	3.8
15	STAMPEDE RUSSET	BRT091-1 Lemhi Russet	RP	TX	Dual	E/L	2	OR	92	Obl-Lng	3.7	Med Hvy Rus	4.2	Med-large	3.5	Med-early	2.8
16	TC1675-1Ru	Russet Nugget Lemhi Russet	W	CO	Dual	E/L	1	CO	94	Oblong	3.4	Med Hvy Rus	4.0	Med-large	3.9	Medium	3.5

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: 2002 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	NM	OR		TX	WA	Entry	CA	CO	ID		NM	OR		WA	Entry					
	KRN	CLV	HRM	MAL	SPR	PAS	Mean/Rank	TUL	SLV	AB	KIM	FRM	HRM	KLM	MAL	OTH	Mean/Rank				
1 R. BURBANK	309	193	566	484	246	409	368	4	a	444	568	581	587	297	767	485	399	744	541	6	bc
2 RANGER R.	332	219	521	397	225	376	345	10	a	467	501	500	568	496	796	396	471	682	542	4	bc
3 R. NORKOTAH	306	215	456	345	157	589	345	11	a	350	519	403	462	213	606	443	342	839	464	12	def
4 SHEPODY	307	221	563	463	146	292	332	13	a	.	537	.	.	.	.	.	407	.	-	-	
5 A9045-7	371	222	570	470	282	365	380	2	a	417	557	595	612	385	809	444	439	739	555	3	b
6 A90586-11	403	256	582	361	276	365	374	3	a	444	607	574	516	435	893	483	373	738	563	2	ab
7 A9304-3	369	203	597	435	195	360	360	6	a	329	524	555	553	273	720	437	450	786	514	8	bcd
8 A9305-10	366	183	635	489	214	300	364	5	a	493	608	712	661	256	1044	494	460	805	615	1	a
9 AC89536-5Ru	334	215	610	402	205	324	348	8	a	388	559	463	627	216	875	435	347	744	517	7	bcd
10 AC92009-4Ru	171	149	556	346	291	297	302	16	a	286	365	366	395	197	793	348	269	735	417	15	f
11 ATX9202-1Ru	260	200	509	389	229	345	322	14	a	310	420	454	438	291	611	331	381	713	439	13	ef
12 ATX92230-1Ru	.	169	602	363	330	447	382	1		.	486	532	585	318	772	452	385	803	542	5	
13 CO92077-5Ru	322	144	465	338	233	309	302	15	a	306	456	409	445	100	745	389	335	721	434	14	ef
14 NDC5372-1Ru	297	187	522	353	283	409	342	12	a	382	471	476	560	258	677	432	349	682	476	10	def
15 STAMPEDE R.	400	161	617	305	257	409	358	7	a	353	460	460	435	303	782	479	384	771	492	9	cde
16 TC1675-1Ru	407	214	537	388	297	236	346	9	a	376	533	458	527	218	739	346	397	588	465	11	def
Location Means	330	197	557	395	242	365	348			382	511	503	531	284	775	426	387	739	505		

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: 2002 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	NM	OR		TX	WA	Entry		CA	CO	ID		NM	OR			WA	Entry			
	KRN	CLV	HRM	MAL	SPR	PAS	Mean/Rank		TUL	SLV	AB	KIM	FRM ¹	HRM	KLM	MAL	OTH	Mean/Rank			
1 R. BURBANK	212	22	404	144	60	190	172	16	c	353	437	404	366	149	466	312	199	550	360	13	def
	69	12	71	31	25	46	42	16		80	77	70	62	50	61	64	50	74	65	15	
2 RANGER R.	311	142	457	269	127	223	255	10	ab	365	408	386	410	405	641	306	402	557	431	5	bcd
	94	65	88	68	56	59	72	10		78	81	77	72	82	81	77	85	82	79	7	
3 R. NORKOTAH	287	165	375	279	111	461	280	6	ab	249	429	348	346	113	493	377	319	687	374	11	cdef
	94	77	82	81	71	78	80	3		71	83	86	75	53	81	85	93	82	79	9	
4 SHEPODY	251	135	453	199	70	200	218	14	bc	.	462	.	.	.	.	.	285	.	-	-	
	82	61	80	43	48	69	64	15		.	86	.	.	.	.	.	70	.	-	-	
5 A9045-7	322	142	501	391	158	298	302	2	a	354	470	545	523	313	739	359	410	649	485	2	ab
	87	64	88	83	56	82	77	6		85	84	92	85	81	91	81	93	88	87	2	
6 A90586-11	377	187	497	240	191	229	287	5	ab	359	417	428	369	363	749	370	344	539	438	4	bc
	93	73	85	66	69	63	75	8		81	69	75	72	84	84	77	92	73	78	11	
7 A9304-3	343	161	502	347	142	261	293	4	a	305	456	481	379	218	583	322	401	729	430	6	bcd
	93	79	84	80	73	72	80	4		93	87	87	69	80	81	74	89	93	83	5	
8 A9305-10	348	126	535	306	128	199	274	7	ab	415	479	645	546	180	835	356	397	698	506	1	a
	95	69	84	63	60	66	73	9		84	79	91	83	70	80	72	86	87	81	6	
9 AC89536-5Ru	309	116	504	296	130	195	258	8	ab	319	424	376	535	118	746	309	318	584	414	7	cde
	92	54	83	74	63	60	71	11		82	76	81	85	55	85	71	92	78	78	10	
10 AC92009-4Ru	153	106	523	303	223	223	255	9	ab	264	331	328	358	128	735	312	257	668	376	10	cdef
	89	71	94	87	77	75	82	2		92	91	90	91	65	93	90	95	91	89	1	
11 ATX9202-1Ru	238	145	416	337	163	185	247	11	ab	260	320	355	305	210	434	194	369	567	335	15	f
	92	72	82	87	71	54	76	7		84	76	78	70	72	71	59	97	80	76	14	
12 ATX92230-1Ru	.	101	549	302	271	330	311	1		.	389	482	514	211	705	331	370	732	467	3	
	.	60	91	83	82	74	78	5		.	80	91	88	66	91	73	96	91	85	3	
13 CO92077-5Ru	286	76	389	220	127	200	216	15	bc	239	375	303	347	40	652	343	258	585	349	14	ef
	89	52	84	65	54	65	68	13		78	82	74	78	40	88	88	77	81	76	13	
14 NDC5372-1Ru	275	117	422	268	148	245	246	12	ab	316	375	412	457	135	492	336	323	580	381	9	cdef
	93	62	81	76	53	60	71	12		83	80	87	82	52	73	78	92	85	79	8	
15 STAMPEDE R.	362	122	512	261	207	327	299	3	a	270	383	354	385	238	672	410	363	654	414	8	cde
	91	76	83	86	81	80	83	1		76	83	77	89	79	86	86	95	85	84	4	
16 TC1675-1Ru	381	92	399	249	196	110	238	13	ab	288	420	381	429	118	527	250	342	494	361	12	def
	94	43	74	64	66	47	65	14		77	79	83	81	54	71	72	86	84	76	12	
Location Means	297	122	465	276	153	242	259			311	411	415	418	196	631	326	335	618	408		
	90	62	83	71	63	66	72			82	81	83	79	66	81	76	87	84	80		

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: 2002 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 (CWT/A) and %									U.S. No. 1's > 10/12 OZ - Late Harvest (CWT/A) and %												
No. Clone	CA	NM	OR		TX	WA	Entry			CA	CO	ID		NM	OR			WA	Entry		
	KRN	CLV	HRM	MAL	SPR	PAS	Mean	Rank		TUL	SLV	AB	KIM	FRM ¹	HRM	KLM	MAL	OTH	Mean	Rank	
1 R. BURBANK	29	0	11	10	0	2	9	16	e	74	127	113	186	16	67	82	5	98	85	14	cd
	9	0	2	2	0	0	2	16		17	22	19	32	5	9	17	1	13	15	14	
2 RANGER R.	47	19	81	26	19	3	33	9	bcde	99	136	149	232	25	314	143	57	262	157	6	ab
	14	9	16	7	9	1	9	10		21	27	30	41	5	39	36	12	38	28	6	
3 R. NORKOTAH	62	24	26	18	18	46	32	10	bcde	37	151	63	173	0	70	135	6	203	93	13	bcd
	20	11	6	5	11	8	10	7		11	29	16	37	0	12	30	2	24	18	13	
4 SHEPODY	94	27	150	8	16	28	54	3	abc	.	290	.	.	.	.	.	26	.	-	-	
	31	12	27	2	11	10	15	3		.	54	.	.	.	.	.	6	.	-	-	
5 A9045-7	80	8	132	28	7	14	45	6	bcde	78	179	365	337	2	467	158	7	284	209	2	a
	22	4	23	6	2	4	10	8		19	32	61	55	1	58	36	2	38	33	2	
6 A90586-11	157	12	55	14	36	24	50	5	abcd	116	145	258	194	14	317	137	9	230	158	5	ab
	39	5	9	4	13	7	13	4		26	24	45	38	3	35	28	2	31	26	8	
7 A9304-3	93	50	110	64	58	14	65	2	ab	151	259	331	265	2	222	137	61	507	215	1	a
	25	25	18	15	30	4	19	2		46	49	60	48	1	31	31	13	64	38	1	
8 A9305-10	76	11	133	43	33	4	50	4	abcd	122	89	419	367	2	350	107	56	310	202	3	a
	21	6	21	9	15	1	12	5		25	15	59	56	1	34	22	12	39	29	4	
9 AC89536-5Ru	34	3	79	12	24	3	26	13	cde	82	133	197	262	0	289	54	13	312	149	9	abc
	10	2	13	3	12	1	7	13		21	24	43	42	0	33	12	4	42	25	9	
10 AC92009-4Ru	10	6	95	54	65	5	39	7	bcde	89	156	113	183	3	360	105	28	315	150	8	abc
	6	4	17	16	22	2	11	6		31	43	31	46	2	45	30	11	43	31	3	
11 ATX9202-1Ru	32	8	36	76	32	0	31	11	bcde	84	131	141	133	3	79	37	72	269	105	12	bcd
	12	4	7	20	14	0	9	9		27	31	31	30	1	13	11	19	38	22	10	
12 ATX92230-1Ru	.	14	98	17	46	9	37	8		.	153	230	297	0	240	73	7	318	165	4	
	.	9	16	5	14	2	9	11		.	31	43	51	0	31	16	2	40	27	7	
13 CO92077-5Ru	61	2	50	29	7	9	26	12	cde	28	145	110	127	0	251	99	37	206	111	10	bcd
	19	1	11	8	3	3	8	12		9	32	27	29	0	34	25	11	29	22	11	
14 NDC5372-1Ru	25	13	22	2	8	8	13	15	de	96	96	160	204	0	82	64	6	281	110	11	bcd
	8	7	4	1	3	2	4	15		25	20	34	36	0	12	15	2	41	21	12	
15 STAMPEDE R.	125	7	176	45	53	79	81	1	a	50	146	224	161	5	269	130	50	326	151	7	abc
	31	4	29	15	21	19	20	1		14	32	49	37	2	34	27	13	42	28	5	
16 TC1675-1Ru	46	7	20	8	50	0	22	14	cde	45	119	123	114	0	53	31	4	132	69	15	d
	11	3	4	2	17	0	6	14		12	22	27	22	0	7	9	1	22	14	15	
Location Means	65	13	80	28	29	16	38			82	153	200	216	5	229	99	28	270	142		
	19	7	14	7	12	4	10			22	31	38	40	1	28	23	7	36	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: 2002 Western Regional Potato Variety Trial - YIELD < 4 OZ [CWT/A (upper) & % (lower)] - EARLY AND LATE HARVEST

Yield < 4 OZ - Early Harvest (CWT/A) and %										Yield < 4 OZ - Late Harvest (CWT/A) and %											
No. Clone	CA	NM	OR		TX	WA	Entry		abc	CA	CO	ID		NM	OR			WA	Entry		ab
	KRN	CLV	HRM	MAL	SPR	PAS	Mean/Rank	TUL		SLV	AB	KIM	FRM ¹	HRM	KLM	MAL	OTH	Mean/Rank			
1 R. BURBANK	8	19	100	83	55	145	68	3	abc	73	106	41	16	148	98	57	28	82	72	2	ab
	2	10	18	17	22	35	17	5		16	19	7	3	50	13	12	7	11	15	4	
2 RANGER R.	11	23	25	32	59	99	41	11	defg	43	62	21	17	91	51	17	12	36	39	12	cde
	3	10	5	8	26	26	13	12		9	12	4	3	18	6	4	3	5	7	14	
3 R. NORKOTAH	15	24	66	48	34	99	48	10	cdefg	60	66	42	27	100	82	29	16	97	58	4	bc
	5	11	14	14	21	17	14	10		17	13	10	6	47	14	7	5	12	14	5	
4 SHEPODY	10	22	38	36	10	64	30	16	g	.	42	.	.	.	.	.	12	.	-	-	
	3	10	7	8	7	22	9	15		.	8	.	.	.	.	.	3	.	-	-	
5 A9045-7	43	38	38	48	87	61	52	8	cdefg	61	60	10	14	72	36	16	17	45	37	13	de
	12	17	7	10	31	17	15	8		15	11	2	2	19	4	4	4	6	7	13	
6 A90586-11	10	38	59	79	74	98	60	5	bcde	61	98	26	27	71	56	33	24	63	51	8	cd
	2	15	10	22	27	27	17	6		14	16	5	5	16	6	7	6	9	9	10	
7 A9304-3	11	13	48	20	22	81	33	15	fg	12	33	15	20	55	59	21	8	12	26	15	e
	3	6	8	5	12	22	9	16		4	6	3	4	20	8	5	2	2	6	15	
8 A9305-10	8	23	49	45	41	77	40	12	defg	61	109	15	14	76	78	30	16	54	50	9	cd
	2	12	8	9	19	26	13	13		12	18	2	2	30	7	6	3	7	10	9	
9 AC89536-5Ru	19	52	70	70	43	128	64	4	abcd	62	95	30	22	98	83	48	18	49	56	5	bc
	6	24	11	17	21	39	20	3		16	17	6	4	45	9	11	5	7	13	6	
10 AC92009-4Ru	18	20	29	22	64	68	37	14	efg	22	29	19	10	68	46	25	6	37	29	14	e
	11	13	5	6	22	23	13	11		8	8	5	3	35	6	7	2	5	9	12	
11 ATX9202-1Ru	20	18	78	22	49	116	51	9	cdefg	48	59	41	32	80	127	55	6	46	55	6	bcd
	8	9	15	6	21	34	15	7		16	14	9	7	28	21	17	2	6	13	7	
12 ATX92230-1Ru	.	34	44	32	53	103	53	7		.	40	22	16	107	50	32	11	41	40	11	
	.	20	7	9	16	23	15	9		.	8	4	3	34	6	7	3	5	9	11	
13 CO92077-5Ru	15	32	61	56	65	101	55	6	cdef	63	66	49	34	60	73	28	35	69	53	7	cd
	5	22	13	17	28	33	19	4		21	14	12	8	60	10	7	11	10	17	2	
14 NDC5372-1Ru	19	39	82	75	99	158	79	2	ab	55	85	42	38	122	148	66	25	58	71	3	ab
	6	21	16	21	35	39	23	2		14	18	9	7	48	22	15	7	8	16	3	
15 STAMPEDE R.	15	20	58	35	47	49	37	13	efg	70	49	28	27	65	54	39	15	43	43	10	cde
	4	13	9	11	18	12	11	14		20	11	6	6	21	7	8	4	6	10	8	
16 TC1675-1Ru	22	63	105	115	82	123	85	1	a	86	83	57	54	100	188	60	45	69	83	1	a
	5	30	20	30	28	52	27	1		23	16	12	10	46	25	17	11	12	19	1	
Location Means	16	30	59	51	55	98	52			55	68	31	25	88	82	37	18	53	51		
	5	15	11	13	22	28	16			15	13	6	5	34	11	9	5	7	12		

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: 2002 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 R. BURBANK	1.084	1.079	1.070	1.056	1.065	1.071	10	cdef	1.090	1.091	1.078	1.083	1.074	1.077	1.084	1.075	1.088	1.082	12	e
2 RANGER R.	1.082	1.072	1.088	1.062	1.061	1.073	9	bcde	1.094	1.087	1.080	1.083	1.086	1.083	1.087	1.100	1.091	1.088	5	abcd
3 R. NORKOTAH	1.079	1.066	1.069	1.064	1.070	1.069	12	def	1.080	1.080	1.073	1.067	1.077	1.066	1.071	1.073	1.075	1.074	13	f
4 SHEPODY	1.078	1.070	1.080	1.069	1.056	1.070	11	cdef	.	1.086	.	.	.	.	1.086	.	.	-	.	.
5 A9045-7	1.085	1.076	1.081	1.069	1.058	1.074	7	bcde	1.093	1.095	1.081	1.087	1.080	1.079	1.087	1.096	1.091	1.088	6	bcd
6 A90586-11	1.082	1.074	1.083	1.070	1.060	1.074	6	bcde	1.093	1.101	1.083	1.081	1.095	1.082	1.084	1.100	1.083	1.089	4	abc
7 A9304-3	1.074	1.077	1.090	1.069	1.067	1.075	4	bcd	1.094	1.092	1.085	1.085	1.087	1.085	1.089	1.099	1.092	1.090	3	ab
8 A9305-10	1.072	1.069	1.078	1.063	1.059	1.068	14	ef	1.092	1.093	1.083	1.078	1.080	1.082	1.085	1.088	1.089	1.086	9	cde
9 AC89536-5Ru	1.086	1.080	1.083	1.068	1.064	1.076	3	bc	1.090	1.093	1.076	1.084	1.079	1.084	1.086	1.098	1.090	1.087	8	bcd
10 AC92009-4Ru	1.084	1.080	1.088	1.077	1.056	1.077	2	ab	1.094	1.099	1.090	1.090	1.090	1.083	1.088	1.097	1.095	1.092	1	a
11 ATX9202-1Ru	1.085	1.074	1.077	1.074	1.065	1.075	5	bcd	1.092	1.093	1.082	1.083	1.087	1.078	1.089	1.094	1.087	1.087	7	bcd
12 ATX92230-1Ru	.	1.074	1.075	1.060	1.066	1.069	13		.	1.095	1.079	1.080	1.082	1.078	1.085	1.085	1.082	1.083	11	
13 CO92077-5Ru	1.075	1.063	1.064	1.064	1.059	1.065	15	fg	1.080	1.083	1.064	1.067	1.070	1.071	1.073	1.071	1.072	1.072	14	fg
14 NDC5372-1Ru	1.082	1.073	1.081	1.067	1.063	1.073	8	bcde	1.092	1.083	1.081	1.083	1.086	1.077	1.082	1.093	1.083	1.084	10	de
15 STAMPEDE R.	1.074	1.060	1.059	1.054	1.051	1.059	16	g	1.082	1.080	1.064	1.063	1.069	1.061	1.068	1.068	1.069	1.069	15	g
16 TC1675-1Ru	1.086	1.086	1.092	1.079	1.070	1.082	1	a	1.091	1.093	1.084	1.087	1.081	1.093	1.089	1.099	1.096	1.090	2	ab
Location Means	1.080	1.073	1.079	1.066	1.062	1.072			1.090	1.090	1.079	1.080	1.081	1.079	1.083	1.089	1.085	1.084		

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: 2002 Western Regional Potato Variety Trial - AVERAGE TUBER SIZE, AND TUBER SHAPE

No. Clone	<u>Average Tuber Size (oz)</u>										<u>Tuber Shape (1-5 length/width ratio: 1=round, 5=long)</u>													
	Early Trial					Late Trial					Early Trial					Late Trial								
	OR	TX	WA	Mean		ID	OR	WA	Mean		CA	OR	TX	WA	Mean	CA	CO	ID	OR	WA	Mean			
	HRM	SPR	PAS		AB	KIM	HRM	OTH		KRN	HRM	MAL	SPR	PAS		TUL	SLV	AB	KIM	HRM	KLM	MAL	OTH	
1 R. BURBANK	5.4	3.6	4.0	4.3	7.8	10.7	6.1	8.0	8.2	3.5	5.0	5.0	4.0	3.2	4.1	4.0	5.0	4.0	4.0	5.0	5.0	4.3	3.8	4.4
2 RANGER R.	7.3	4.1	4.5	5.3	9.3	10.7	9.0	7.5	9.1	3.7	5.0	4.5	4.0	3.2	4.1	5.0	5.0	5.0	4.8	5.0	5.0	4.3	5.0	4.9
3 R. NORKOTAH	5.8	4.8	5.5	5.4	6.4	8.6	6.8	5.4	6.8	4.0	5.0	3.8	3.8	4.3	4.2	3.8	5.0	4.0	4.0	5.0	5.0	4.3	4.0	4.4
4 SHEPODY	8.3	6.0	5.2	6.5	.	.	.	.	-	3.0	3.0	1.8	3.8	3.0	2.9	.	5.0	.	.	.	.	3.8	.	-
5 A9045-7	8.3	4.0	5.3	5.9	12.2	11.1	10.3	8.0	10.4	4.5	4.0	4.3	3.3	3.2	3.8	3.7	5.0	4.0	3.8	4.0	4.0	3.3	3.5	3.9
6 A90586-11	6.5	3.8	4.8	5.0	10.4	9.2	8.8	8.3	9.2	4.5	5.0	3.0	3.4	2.7	3.7	4.0	5.0	4.5	4.0	5.0	4.5	3.0	4.3	4.3
7 A9304-3	7.5	6.2	4.9	6.2	11.7	12.7	7.9	10.8	10.8	4.0	5.0	5.0	4.9	3.3	4.4	4.3	5.0	5.0	5.0	5.0	4.8	5.0	4.0	4.8
8 A9305-10	6.9	4.8	4.6	5.4	11.3	12.2	8.1	7.3	9.7	3.5	3.0	2.3	4.4	3.5	3.3	3.3	4.0	3.8	4.0	4.0	3.0	3.8	3.3	3.6
9 AC89536-5Ru	6.4	4.3	3.9	4.9	9.0	9.5	7.6	8.0	8.5	3.0	4.0	2.3	4.8	3.0	3.4	4.0	4.0	4.8	4.0	4.0	4.0	3.8	3.8	4.0
10 AC92009-4Ru	7.8	7.3	4.8	6.6	8.2	10.1	9.1	8.8	9.1	4.0	3.0	4.8	4.8	4.3	4.2	4.0	4.0	3.5	4.0	3.0	4.0	4.3	3.8	3.8
11 ATX9202-1Ru	5.5	5.3	4.2	5.0	7.6	8.4	5.3	6.2	6.9	3.0	5.0	4.0	4.3	3.0	3.9	4.0	4.0	4.0	4.0	4.0	4.3	4.8	4.0	4.1
12 ATX92230-1Ru	7.3	5.1	4.9	5.8	9.7	10.3	8.0	7.1	8.8	.	3.0	3.0	4.0	3.0	3.3	.	4.0	3.5	3.8	3.0	4.8	3.5	3.8	3.8
13 CO92077-5Ru	6.1	3.6	4.3	4.7	7.0	7.6	7.5	5.5	6.9	4.0	5.0	4.3	4.0	3.3	4.1	4.0	5.0	3.8	4.0	4.0	4.5	4.3	3.8	4.2
14 NDC5372-1Ru	5.0	3.3	4.0	4.1	7.7	8.3	5.3	8.0	7.3	4.0	3.0	3.0	2.9	4.0	3.4	3.5	4.0	2.8	2.8	2.0	3.3	3.5	2.8	3.1
15 STAMPEDE R.	7.5	5.3	6.5	6.4	10.2	8.3	8.2	6.2	8.2	5.0	3.0	3.3	3.4	3.0	3.5	4.0	4.0	4.0	4.0	3.0	4.0	4.0	3.8	3.8
16 TC1675-1Ru	5.2	4.1	3.4	4.2	6.8	6.8	4.7	6.2	6.1	3.5	4.0	1.5	4.3	3.0	3.3	4.0	4.0	3.5	3.3	3.0	3.5	3.0	3.3	3.4
Location Means	6.7	4.7	4.7	5.4	9.0	9.6	7.5	7.4	8.4	3.8	4.1	3.5	4.0	3.3	3.7	4.0	4.5	4.0	4.0	3.9	4.2	3.9	3.8	4.0

TABLE 9: 2002 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 R. BURBANK	4.4	3.1 AB 2.3 KIM 2.5	3.8 SPR 3.0	3.8 KIM 3.0	4.9	4.6	3.0	4.9	4.8
2 RANGER R.	4.5	4.4 OTH 1.5	4.8	4.4	4.9	4.6	3.3	4.9	4.7
3 R. NORKOTAH	4.8	4.7	4.8	4.7	5.0	4.6	3.0	5.0	4.9
4 SHEPODY	4.7	4.3	4.3	4.0	4.9	-	.	4.4 HRM 3.3	-
5 A9045-7	4.8	3.8	4.5	4.6	4.9	4.6	3.7	4.6	4.9
6 A90586-11	4.9	4.6	4.8	4.1	4.9	4.5	3.3	4.4	4.4
7 A9304-3	4.6	4.7	4.9	4.2	4.8	4.4	3.0	4.9	4.7
8 A9305-10	5.0	4.4	5.0	4.4	4.9	3.6 MAL 2.3	3.2	5.0	4.8
9 AC89536-5Ru	4.4	4.2	5.0	4.4	5.0	4.3	3.0	5.0	4.5
10 AC92009-4Ru	5.0	4.9	5.0	4.9	5.0	4.3 MAL 2.8	3.1	5.0	4.8
11 ATX9202-1Ru	4.8	3.6	4.9	4.0 SLV 3.0	4.9	4.4	3.5	4.8	5.0
12 ATX92230-1Ru	4.1	3.5 SLV 1.0	4.8	4.9	3.9 HRM 2.0	3.6 MAL 2.8	2.4 HRM 2.5	4.9	4.8
13 CO92077-5Ru	4.9	4.4	4.7	5.0	5.0	4.2	3.2	4.9	4.3 AB 2.5
14 NDC5372-1Ru	5.0	4.5	5.0	5.0	5.0	4.1	3.1	5.0	4.7
15 STAMPEDE R.	4.1 HRM 3.0	3.9	5.0	4.7	4.2 HRM 2.5	3.2 HRM 1.3	2.7	4.9	4.8
16 TC1675-1Ru	4.9	4.3	5.0	4.8	5.0	4.5	3.4	5.0	4.9
Entry Means	4.7	4.2	4.8	4.5	4.8	4.2	3.1	4.8	4.7

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: 2002 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 R. BURBANK	2	8	8	0	23	2	4.3	4.3	3.2
2 RANGER R.	0	1	4	1	43	6	5.0	3.8	2.8
3 R. NORKOTAH	0	10	10	0	23	1	5.0	4.5	3.1
4 SHEPODY	1	0	4	.	27	.	4.7	4.4	-
5 A9045-7	0	0	8	0	28	3	5.0	4.2	3.1
6 A90586-11	0	3	4	3	22	3	5.0	4.8	3.3
7 A9304-3	0	6	4	1	10	2	4.7	3.9	3.0
8 A9305-10	0	1	4	0	28	6	5.0	4.6	2.9
9 AC89536-5Ru	0	12	4	0	24	0	5.0	4.6	3.4
10 AC92009-4Ru	0	1	0	1	15	1	5.0	4.4	3.3
11 ATX9202-1Ru	0	4	12	2	23	3	4.8	4.4	3.6
12 ATX92230-1Ru	0	16	0	0	15	2	5.0	4.6	3.5
13 CO92077-5Ru	0	2	7	2	6	0	4.0	4.8	3.0
14 NDC5372-1Ru	2	3	10	0	30	0	5.0	3.3	2.5
15 STAMPEDE R.	0	4	2	1	4	5	4.7	4.5	2.9
16 TC1675-1Ru	0	2	13	4	14	2	4.3	3.9	2.8
Entry Means	0	4	6	1	21	2	4.8	4.3	3.1

¹Individual trial sites with relatively extreme values are listed to the right of the entry means.

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

TABLE 11: 2002 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			Entry Mean	CO	ID	OR		Entry Mean	ID	Entry Mean	ID		OR		Entry Mean			
	SLV	HRM	KLM	MAL		SLV	AB	KIM	HRM		MAL		AB	KIM	AB	KIM		HRM	KL M	
L	E	L	E	L	L	L	L	L	L	L	L	L	L	E	L	L				
1 R. BURBANK	1.0	0.2	1.0	0.1	0.6	1.0	1.2	1.3	0.6	1.5	1.1	3.5	3.5	3.5	21	17	0	3	0	8
2 RANGER R.	3.0	0.1	2.0	0.0	1.3	2.0	1.6	1.8	0.2	0.1	1.1	3.4	3.3	3.4	38	29	0	0	20	17
3 R. NORKOTAH	3.0	0.1	2.0	0.1	1.3	2.0	1.6	2.2	0.7	2.0	1.7	3.9	3.7	3.8	54	50	0	0	30	27
4 SHEPODY	2.0	0.0	.	0.0	0.7	2.0	.	.	.	0.5	1.3	.	.	-	.	.	0	.	.	-
5 A9045-7	2.0	0.0	3.0	0.1	1.3	3.0	1.8	1.5	0.7	0.1	1.4	4.0	3.0	3.5	34	21	1	0	0	11
6 A90586-11	2.0	0.0	1.0	0.1	0.8	2.0	1.7	2.3	0.7	0.5	1.4	3.6	3.5	3.6	21	42	0	0	0	13
7 A9304-3	1.0	0.5	1.0	0.0	0.6	2.0	1.2	1.2	0.0	0.0	0.9	3.0	3.0	3.0	9	4	0	0	0	3
8 A9305-10	2.0	0.3	1.3	0.0	0.9	1.0	0.6	1.8	0.0	0.0	0.7	2.6	2.8	2.7	4	17	0	0	0	4
9 AC89536-5Ru	3.0	0.0	3.0	0.0	1.5	3.0	1.9	1.8	0.0	0.1	1.4	3.4	3.2	3.3	38	0	0	3	0	8
10 AC92009-4Ru	1.0	0.2	2.0	0.0	0.8	1.0	1.2	2.2	0.2	0.0	0.9	3.2	3.0	3.1	38	17	0	0	0	11
11 ATX9202-1Ru	1.0	0.4	0.5	0.0	0.5	3.0	1.3	1.5	0.0	0.0	1.2	2.0	2.6	2.3	24	4	2	0	0	6
12 ATX92230-1Ru	3.0	0.0	1.5	0.0	1.1	2.0	0.7	1.1	0.0	0.1	0.8	2.9	3.0	3.0	4	0	0	0	0	1
13 CO92077-5Ru	3.0	0.3	1.5	0.5	1.3	2.0	1.7	1.8	0.9	2.0	1.7	4.0	3.8	3.9	8	9	0	0	0	3
14 NDC5372-1Ru	1.0	0.1	1.5	0.1	0.7	1.0	0.9	1.7	0.4	0.1	0.8	3.5	3.5	3.5	9	8	0	3	0	4
15 STAMPEDE R.	2.0	0.3	1.5	0.0	1.0	2.0	1.6	1.5	0.8	1.5	1.5	3.8	3.9	3.9	17	17	0	0	0	7
16 TC1675-1Ru	1.0	0.1	1.5	0.0	0.7	2.0	0.7	1.0	0.0	0.0	0.7	3.2	3.3	3.3	13	8	0	0	20	8
Location Means	1.9	0.2	1.6	0.1	0.9	1.9	1.3	1.6	0.3	0.5	1.2	3.3	3.3	3.3	22	16		1	5	9

Storage protocol prior to frying

Aberdeen - ~6 weeks from 50F to 40F and 45F, and ~6 weeks @ 40F and 45F.

Hermiston - ~4 weeks from 62F to 45F, and ~4 weeks @45F.

Kimberly - ~6 weeks from 50F to 40F and 45F, and ~6 weeks @ 40F and 45F.

Klamath - ~4 weeks @ ~56F.

Malheur (Late) - ~2 weeks from 53F to 45, and ~6 weeks @ 45F.

San Luis Valley - ~4 weeks from 55F to 45F, and ~ 8 weeks @ 45F.

* Comprehensive post harvest evaluations of entries can be found in the 2002 Potato Cultivar Yield & Post Harvest Quality Evaluations - Washington State University. Contact: Drs. Bob Thornton or Rick Knowles.

TABLE 12: 2002 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		Prosser		Fusarium Dry Rot ¹ F _{S(0-5)} F _C	Erwinia Soft Rot ¹ (0-5)	Metribuzin Reaction ⁷ AB		
	AB ¹	HRM ²		Corvallis ³			Mount Vernon ⁴	Necrosis		Corky				%Root-	
	(0-9)	(0-9)		Foliar	Tuber		Foliar	AB ¹	HRM ²	Rngspt ⁵				knot ⁶	
1 R. BURBANK	6.7	8.7	4.3	9.0	18.8	2227	1.3	0	17.5	53.0	S	1.6	3.2	0.9	R
2 RANGER R.	3.5	6.5	4.2	9.0	51.3	2072	2.3	8	37.5	51.6	S	2.5	2.2	1.1	MS
3 R. NORKOTAH	9.0	9.0	9.0	9.0	17.5	2556	1.0	2	20.0	35.0	S	3.3	3.2	4.5	VR
4 SHEPODY	6.5	6.5	6.4	9.0	30.0	2082	1.7	0	7.5	-	-	1.5	2.1	3.5	VS
5 A9045-7	3.7	7.7	4.3	9.0	5.0	1499	1.7	11	17.5	65.0	S	3.1	3.0	1.3	VR
6 A90586-11	2.5	7.2	3.5	6.0	2.5	975	3.0	0	12.5	6.6	S	3.1	3.0	1.5	VR
7 A9304-3	4.2	8.1	4.8	9.0	35.0	2083	1.0	2	32.5	26.6	S	3.7	2.2	3.3	R
8 A9305-10	5.0	7.0	3.8	9.0	10.0	2003	1.0	2	35.0	-	-	3.1	1.9	1.9	VR
9 AC89536-5Ru	5.3	8.4	4.8	9.0	0.0	2067	0.0	-	7.5	36.6	S	3.5	1.3	0.7	VR
10 AC92009-4Ru	5.0	8.9	4.7	9.0	7.5	1879	0.3	-	5.0	-	-	3.7	1.8	2.2	MS
11 ATX9202-1Ru	3.7	8.9	5.7	9.0	10.0	2321	1.0	10	25.0	43.3	S	3.7	1.3	0.4	VR
12 ATX92230-1Ru	7.2	8.2	4.7	9.0	10.0	2218	1.7	-	7.5	-	-	3.7	2.3	1.3	R
13 CO92077-5Ru	2.8	7.5	4.5	9.0	13.7	2013	2.3	-	2.5	-	-	4.3	3.3	0.9	MR
14 NDC5372-1Ru	5.2	8.5	4.2	9.0	23.5	2246	2.0	-	5.0	26.6	S	2.9	2.3	3.9	R
15 STAMPEDE R.	6.8	9.0	6.3	9.0	4.2	2210	1.0	-	5.0	6.6	S	1.6	1.0	1.1	R
16 TC1675-1Ru	4.3	8.5	5.3	9.0	12.5	2162	1.0	-	15.0	13.3	S	2.7	1.1	1.6	VR
Entry Means	5.1	8.0	5.0	8.8	16	2038	1.4	4	15.8	33.1		3.0	2.2	1.9	
LSD (.05)	1.8		1.3			217	0.8					1.2	1.2	1.7	

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

⁴ Evaluations made at Mount Vernon, Washington by Debbie Inglis; AUDPC = area under disease progress curve.

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: R=resistant, MR=moderately resistant, MS=moderately susceptible, S=suceptible.

TABLE 13: 2002 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 RUSSET BURBANK	20.6	0.11	0.17	4.7	17.2	3.6
2 RANGER RUSSET	21.9	0.09	0.15	5.0	25.1	4.0
3 RUSSET NORKOTAH	20.0	0.08	0.17	4.7	18.0	2.2
5 A9045-7	21.3	0.11	0.14	5.2	15.6	2.8
6 A90586-11	23.0	0.13	0.20	4.6	28.8	3.4
7 A9304-3	22.4	0.06	0.19	6.0	26.5	10.6
8 A9305-10	22.2	0.05	0.22	5.1	21.6	2.3
9 AC89536-5Ru	19.0	0.12	0.18	5.6	28.3	2.0
10 AC92009-4Ru	24.6	0.09	0.25	5.3	26.7	8.3
11 ATX9202-1Ru	22.8	0.04	0.30	6.9	31.3	4.1
12 ATX92230-1Ru	22.4	0.05	0.21	6.7	28.0	1.1
13 CO92077-5Ru	18.6	0.07	0.16	5.3	21.1	5.4
14 NDC5372-1Ru	21.9	0.07	0.16	4.6	22.1	0.5
15 STAMPEDE RUSSET	18.7	0.09	0.17	5.1	26.0	4.0
16 TC1675-1Ru	22.7	0.04	0.22	6.0	26.5	1.4
Entry Means	21.5	0.08	0.19	5.4	24.2	3.7

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

² Glycoalkaloids: The 2002 Lenape check from Aberdeen was 20.8 mg/100g

TABLE 14: 2002 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	E	L	E		L	KRN	TUL	SLV	AB	KIM	HRM	KLM	SPR	OTH		E	L	Mean/Rank
1 R. BURBANK	3.0	3.5	3.5	4.0	3.0	3.5	4.0	4.0	3.6	5	2.0	3.8	2.0	2.5	2.5	3.0	2.0	2.0	1.8	1.0	4.0	2.4	14
2 RANGER R.	3.0	4.0	4.0	4.0	4.0	3.0	3.0	5.0	3.8	4	3.0	3.8	3.0	3.0	2.3	3.0	2.0	2.0	2.7	2.0	3.0	2.7	13
3 R. NORKOTAH	4.0	2.0	1.5	2.0	2.0	2.0	5.0	1.0	2.4	13	3.5	4.3	4.0	3.5	3.3	4.0	4.0	4.0	2.9	5.0	5.0	4.0	1
4 SHEPODY	4.0	.	.	2.0	.	.	1.0	.	2.3	15	2.0	.	5.0	.	.	1.0	.	.	2.0	1.0	.	2.2	16
5 A9045-7	4.0	3.5	4.5	5.0	4.0	3.0	2.0	5.0	3.9	1	3.0	4.0	5.0	4.0	3.5	4.0	2.0	3.5	2.9	5.0	3.0	3.6	3
6 A90586-11	4.0	4.0	3.5	5.0	4.0	4.0	3.0	3.0	3.8	3	3.5	2.5	3.0	2.3	2.8	3.0	1.0	3.0	2.4	2.0	1.0	2.4	15
7 A9304-3	4.0	4.0	3.5	4.0	4.0	3.5	4.0	4.0	3.9	1	3.0	3.5	5.0	3.3	2.5	2.0	3.0	3.5	2.9	4.0	2.0	3.2	5
8 A9305-10	4.0	5.0	4.0	2.0	3.0	3.5	2.0	4.0	3.4	7	2.5	2.8	5.0	3.8	3.0	1.0	2.0	3.0	2.7	3.0	4.0	3.0	8
9 AC89536-5Ru	1.0	2.5	3.0	4.0	4.0	2.0	4.0	2.0	2.8	10	3.0	3.8	4.0	3.3	3.5	4.0	2.0	2.5	2.8	3.0	2.0	3.1	6
10 AC92009-4Ru	4.0	4.0	3.5	4.0	3.0	2.0	4.0	3.0	3.4	7	5.0	3.8	4.0	3.8	3.3	4.0	2.0	3.5	3.2	4.0	4.0	3.7	2
11 ATX9202-1Ru	1.0	4.5	4.0	5.0	3.0	2.0	2.0	2.0	2.9	9	2.0	3.0	1.0	4.0	3.3	5.0	3.0	2.0	3.1	3.0	2.0	2.9	10
12 ATX92230-1Ru	2.0	4.0	3.5	3.0	2.0	2.0	4.0	1.0	2.7	11	.	.	2.0	4.3	3.3	3.0	1.0	2.0	3.4	5.0	5.0	3.2	4
13 CO92077-5Ru	2.0	1.5	1.0	3.0	3.0	2.0	4.0	3.0	2.4	13	3.0	3.5	2.0	3.0	2.8	4.0	2.0	3.0	2.5	1.0	3.0	2.7	12
14 NDC5372-1Ru	3.0	3.0	3.0	2.0	1.0	3.0	3.0	3.0	2.6	12	4.0	3.5	2.0	3.5	3.3	2.0	1.0	2.5	2.5	4.0	2.0	2.8	11
15 STAMPEDE R.	3.0	1.0	1.0	2.0	1.0	2.0	1.0	1.0	1.5	16	4.0	3.8	3.0	3.5	4.0	2.0	1.0	4.0	3.6	3.0	2.0	3.1	7
16 TC1675-1Ru	4.0	3.5	4.0	4.0	1.0	3.0	4.0	5.0	3.6	5	3.5	3.0	4.0	4.0	4.0	4.0	1.0	3.0	2.9	1.0	1.0	2.9	9
Location Means	3.1	3.3	3.2	3.4	2.8	2.7	3.1	3.1	3.1		3.1	3.5	3.4	3.5	3.2	3.1	1.9	2.9	2.8	2.9	2.9	3.0	

TABLE 15: 2002 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 2003
							Early	Late				Process	Fresh		
1	R. BURBANK	-	Dual	541	360	65	4.3	8.2	Long	1.082	1.1	3.6	2.4		Check
2	RANGER R.	-	Dual	542	431	79	5.3	9.1	Long	1.088	1.1	3.8	2.7		Check
3	R. NORKOTAH	-	Fresh	464	374	79	5.4	6.8	Long	1.074	1.7	2.4	4.0		Check
4	SHEPODY	-	Proc	332	218	64	6.5	-	Oblong	1.070	1.3	2.3	2.2		Check
5	A9045-7	3	Dual	555	485	87	5.9	10.4	Obl-Lng	1.088	1.4	3.9	3.6	Growth Cracks (Late)	Graduate
6	A90586-11	3	Dual	563	438	78	5.0	9.2	Long	1.089	1.4	3.8	2.4	Scab	Graduate
7	A9304-3	1	Dual	514	430	83	6.2	10.8	Long	1.090	0.9	3.9	3.2	Blackspot, LB-Tuber, NN/VD (Hermiston)	
8	A9305-10	1	Dual	615	506	81	5.4	9.7	Oblong	1.086	0.7	3.4	3.0	Shatter (Late), NN/VD (Hermiston)	
9	AC89536-5Ru	3	Fresh	517	414	78	4.9	8.5	Obl-Lng	1.087	1.4	2.8	3.1	Hollow Heart (Late)	Graduate
10	AC92009-4Ru	1	Dual	417	376	89	6.6	9.1	Obl-Lng	1.092	0.9	3.4	3.7		
11	ATX9202-1Ru	1	Dual	439	335	76	5.0	6.9	Obl-Lng	1.087	1.2	2.9	2.9	Growth Cracks (Late)	
12	ATX92230-1Ru	1	Fresh	542	467	85	5.8	8.8	Obl-Lng	1.083	0.8	2.7	3.2	Growth Cracks (Late) Shatter, Hollow Heart (Late) Smaller Tuber Size,	
13	CO92077-5Ru	1	Dual	434	349	76	4.7	6.9	Long	1.072	1.7	2.4	2.7	Low SG, Fusarium (F _s)	
14	NDC5372-1Ru	1	Dual	476	381	79	4.1	7.3	Oblong	1.084	0.8	2.6	2.8	Smaller Tuber Size, Blackspot	
15	STAMPEDE R.	2	Dual	492	414	84	6.4	8.2	Obl-Lng	1.069	1.5	1.5	3.1	Low SG, Shatter	
16	TC1675-1Ru	1	Dual	465	361	76	4.2	6.1	Oblong	1.090	0.7	3.6	2.9	Smaller Tuber Size, Blackspot	
Entry Means				494	396	79	5.4	8.4		1.083	1.2	3.1	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.

TABLE 16: 2002 Western Regional Potato Variety Trial - 3 YEAR SUMMARY OF GRADUATING ENTRIES

Clone	2000						2001						2002					
	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	
A9045-7	602 (3/14)	494 81	1.086	1.38	3.5	3.7	649 (2/16)	551 85	1.088	1.8	3.6	3.9	555 (3/15)	485 87	1.088	1.42	3.6	3.88
A90586-11	647 (1/14)	496 75	1.089	1.58	2.6	2.8	683 (1/16)	502 73	1.09	1.7	2.4	4.14	563 (2/15)	438 78	1.089	1.44	2.4	3.8
AC89536-5Ru	539 (7/14)	428 78	1.084	1.55	3.8	3.1	564 (10/16)	468 82	1.083	1.1	3.5	3.6	517 (7/15)	414 78	1.087	1.36	3.08	2.8
R. NORKOTAH	377 (14/14)	308 81	1.071	2.0	3.7	1.7	443 (15/16)	361 81	1.071	1.8	3.6	2.0	464 (12/15)	374 79	1.074	1.7	4.0	2.4
R. BURBANK	568 (5/14)	330 57	1.081	1.4	2.3	3.4	553 (11/16)	320 58	1.081	1.7	1.9	2.9	541 (6/15)	360 65	1.082	1.12	2.41	3.6
Trial Mean	529	410 77	1.081	1.23	3.3	2.9	572	448 78	1.081	1.5	3.0	3.0	505	408 80	1.083	1.2	3.1	3.0

Clone	3 Year Average (2000-2002)						Noted Weaknesses
	Total Yield ¹ &(rank) ²	US #1 Yield ¹ & %	SG	FRY 45	Merit Score Fresh Proc		
A9045-7	602 (82)	510 84	1.087	1.5	3.6	3.8	Growth Cracks (Late) - 3/3 years
A90586-11	631 (91)	479 76	1.089	1.6	2.5	3.6	2nd Growth (Late) - 2/3 years Scab - 3/3 years
AC89536-5Ru	540 (47)	437 80	1.085	1.3	3.5	3.2	
R. NORKOTAH	428 (9)	348 80	1.072	1.8	3.7	2.0	
R. BURBANK	554 (52)	337 60	1.081	1.4	2.2	3.3	
Trial Mean³	535	422 78	1.082	1.3	3.1	3.0	

¹ (CWT/A)² Percent of entries with lower yields;

e.g. 82% of all late trial entries over three years, yielded lower than A9045-7.

³ Late trial mean of all late trial entries 2000-2002