

2007
WESTERN REGIONAL
POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS Cooperating

California

Colorado

Idaho

Oregon

Texas

Washington



2007 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

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Western Regional Potato Variety Trial Reports (1998-2007) can be accessed at the following websight:

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

Compiled by Brian Schneider
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TABLE 1: 2007 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.	237.75	15-May	8-Oct	118	146	Sencor Matrix		Maxim, Quadris, Bravo, Dithane	
										Chemical			
2	San Luis Valley Colorado (SLV)	D. Holm, F. Goktepe	Late	Pivot	120-60-40-25+	10-May	25-Sep	113	138	Dual Magnum	Leverage 2.7 Actara	Bravo WS Quadris	
										Sulfuric Acid			
3	Aberdeen Idaho (AB)	J. Stark, R. Novy, J. Whitworth, P. Bain M. Chappell	Late	Sprink.	253-105-50-0+	1-May	27-Sep	126	149	Matrix, Sencor Eptam	Admire Pro	Quadris Opti Dithane F45	
										Reglone			
4	Kimberly Idaho (KIM)	J. Stark, R. Novy, J. Whitworth, P. Bain M. Chappell	Late	Sprink.	283N-119P-0K	4-May	4-Oct	129	153	Eptam, Outlook Sencor, Matrix	Qaucha	Dithane F45 Rimon EC	
										vine beat			
5	Parma Idaho (PAR)	M. Thornton, A. French, D. Beck	Early Late	Sprink. Pivot	190-150-120 300-150-120	10-Apr 25-Apr	8-Aug 20-Sep	117 145	120 148	Roundup Prowl, Outlook Matrix, Eptam	Leverage	Dithane, Quadris Bravo, Endura	
										Mechanical			
6	Hermiston Oregon (HRM)	D. Hane, L. Leroux	Early Late	Pivot Pivot	235-80-0-40 285-80-0-40	29-Mar 5-Apr	6-Aug 17-Sep	112 152	130 165	Matrix Eptam	Admire, Asana Monitor, Onager Mocap, Comite	Vapam, Ridomil Gold Bravo, Dithane Quadris, Omega	
										Mechanical/Enquik			
7	Klamath Falls Oregon (KLA)	B. Charlton, D. Culp	Late	Sprink.	165-80-100-144	23-May	10-Oct	110	140	Dual Magnum Prowl H2O Matrix MZ	Admire Pro Leverage	Tops MZ, Quadris Ridomil Gold Bravo SC	
										Mechanical/Reglone			
8	Malheur Oregon (MAL)	C. Shock, E. Feibert	Late	Sprink.	185-76-1-206+	26-Apr	5-Oct	145	162	Prowl+Dual Matrix+Eptam	Tops MZ Gaucho	Ridomil Gold Bravo Dithane Topsin M Tanos, Folo Spray, Sulfer	
										Flail			
9	Springlake Texas (SPR)	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	200-0-17	1-Apr	6-Jul	121	96	Roundup, Dual Matrix, Sencor Select	Dimethoate Oberon 2SC Venom	Tops MZ Gaucho Quadris	
										Mechanical			
10	Othello (OTH) Othello (OTH) Washington	M. Pavek, R. Knowles	Early Late	Sprink. Sprink.	278-175-400 278-175-400	4-Apr 18-Apr	7-Aug 26-Sep	110 152	125 161	Prowl H2O/ Matrix/Eptam Outlook/ Prowl H2O	Platinum Success Oberon Assail Telon II C-17	Quadris Penncozeb, Bravo Omega	
										Flail			

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

TABLE 2: 2007 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	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	99	Long	4.6	Med Russet	3.8	Medium	2.8	Med Early	2.9	2.0
2	Russet Burbank	Early Rose ?	W	Ck	Dual	E/L	-	OR	99	Long	4.3	Med Russet	3.8	Med-Large	3.2	Early	2.4	2.3
3	Russet Norkotah	ND9687-5Russ ND9526-4Russ	W	Ck	Fresh	E/L	-	OR	99	Long	4.3	Med Hvy Rus	4.5	Small	2.5	Early	1.5	2.4
4	Shepody	Bake-King F58050	RP	Ck	Proc	E	-	OR	99	Long	4.2	White	1.6	Small	2.5	Early	2.0	2.1
5	A95409-1	A89146-8 Ranger Russet	RP	ID	Dual	E/L	3	OR	99	Obl-Lng	3.8	Light Russet	2.8	Medium	3.0	Early	2.5	1.9
6	A96104-2	A88236-4 A89512-3	RP	ID	Dual	E/L	3	OR	99	Obl-Lng	4.0	Med Hvy Rus	4.1	Medium	2.9	Med Early	2.7	2.2
7	A97287-6	A92030-4 GemStar Russet	W	ID	Dual	E/L	1	OR	97	Obl-Lng	4.0	Med Russet	3.4	Medium	2.9	Early	2.5	1.6
8	AC96052-1RU	A81386-1 GemStar Russet	P	CO	Dual	E/L	2	OR	96	Oblong	3.5	Heavy Rus	4.6	Med-Large	3.2	Medium	3.1	2.1
9	AO96141-3	A89222-3 COA90064-6	W	OR	Dual	E/L	2	OR	99	Long	4.8	Med Russet	3.5	Med-Large	3.3	Med Early	2.9	2.6
10	AO96164-1	A89384-10 A91194-4	W	OR	Dual	E/L	3	OR	99	Long	4.4	Med Russet	3.8	Med-Large	3.2	Early	2.5	2.1
11	AOA95154-1	Bannock Russet A89152-4	MP	ID	Dual	E/L	3	OR	97	Obl-Lng	3.7	Med Russet	3.8	Med-Large	3.2	Medium	3.3	2.1
12	AOA95155-7	Bannock Russet A89163-3LS	RP	ID	Dual	E/L	3	OR	98	Obl-Lng	3.8	Med Russet	3.5	Medium	2.9	Medium	3.3	1.8
13	AOTX95265-2ARu	A89216-9 A86102-6	W	TX	Fresh	E/L	2	OR	98	Long	4.2	Med Hvy Rus	4.5	Medium	2.6	Early	1.8	2.0
14	AOTX95265-3Ru	A89216-9 A86102-6	W	TX	Dual	E/L	1	OR	99	Long	4.3	Med Hvy Rus	4.4	Medium	2.7	Early	1.8	2.1
15	AOTX95265-4Ru	A89216-9 A86102-6	W	TX	Fresh	E/L	2	OR	99	Long	4.1	Med Hvy Rus	4.5	Medium	2.6	Early	1.7	2.0
16	CO95172-3RU	Russet Nugget AC88165-3	RP	CO	Fresh	E/L	3	OR	98	Obl-Lng	3.8	Med Russet	3.7	Med-Large	3.1	Med Early	2.9	2.4
17	CO97087-2RU	CO87009-4 W1005	W	CO	Dual	E/L	1	CO	99	Obl-Lng	3.7	Med Hvy Rus	4.3	Medium	2.7	Early	2.3	2.6
18	CO97138-3RU	NDO2904-7 CO90052-1	W	CO	Fresh	E/L	1	CO	96	Long	4.1	Med Russet	3.9	Medium	2.8	Early	1.8	2.1
19	CO97138-7RU	NDO2904-7 CO90052-1	W	CO	Fresh	E/L	1	CO	99	Obl-Lng	4.0	Med Russet	3.4	Small	2.5	Early	2.5	2.2
20	TXA549-1Ru	ND9687-3Ru ND9852-1Ru	RP	TX	Dual	E/L	3	OR	98	Oblong	3.2	Med Russet	3.5	Med-Large	3.1	Med Early	2.9	2.7

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: 2007 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)												
	ID PAR	OR HRM	TX SPR	WA OTH	Entry Mean/Rank		CA TUL	CO SLV	ID AB KIM	OR PAR HRM	WA KLA MAL	Entry Mean/Rank							
1 RANGER R.	542	546	426	477	498	13	bcde	315	418	470	407	685	952	495	693	616	561	9	bcd
2 R. BURBANK	540	626	379	470	504	11	bcde	333	506	469	423	579	863	528	764	552	557	10	bcde
3 R. NORKOTAH	483	564	392	561	500	12	bcde	286	374	332	335	577	690	549	528	612	476	16	ghi
4 SHEPODY	532	601	434	503	518	8	bcde	342	403	.	.	.	.	.	.	.	-
5 A95409-1	579	574	550	523	556	4	abc	359	499	573	435	714	955	522	619	589	585	8	abc
6 A96104-2	568	578	256	557	490	14	cde	334	505	563	477	739	1166	472	670	650	620	2	a
7 A97287-6	554	657	409	482	525	6	abcd	379	.	487	381	678	990	510	714	588	591	6	ab
8 AC96052-1RU	390	404	326	340	365	20	g	317	410	330	402	448	750	315	570	469	446	19	i
9 AO96141-3	479	707	325	521	508	9	bcde	322	455	555	501	607	1050	391	823	593	588	7	ab
10 AO96164-1	581	615	496	536	557	3	abc	345	455	556	466	679	1010	599	827	658	622	1	a
11 AOA95154-1	438	523	285	412	414	18	fg	363	456	496	434	622	1018	376	646	601	557	10	bcde
12 AOA95155-7	354	490	258	397	375	19	g	374	376	394	463	545	894	372	611	657	521	13	defg
13 AOTX95265-2ARu	555	484	425	422	472	16	def	264	417	363	344	602	684	479	560	509	469	17	ghi
14 AOTX95265-3Ru	585	651	485	532	563	2	ab	302	397	378	396	663	936	489	658	571	532	12	cdef
15 AOTX95265-4Ru	586	603	462	483	533	5	abcd	326	435	385	374	667	828	461	507	497	498	15	fghi
16 CO95172-3RU	486	550	417	496	487	15	de	354	451	539	452	621	1024	497	739	668	594	5	ab
17 CO97087-2RU	530	592	385	518	506	10	bcde	333	417	429	338	570	809	412	667	557	503	14	efgh
18 CO97138-3RU	485	566	289	485	456	17	ef	286	380	393	350	469	670	417	531	552	450	18	hi
19 CO97138-7RU	618	632	483	625	589	1	a	381	489	552	400	696	968	589	665	692	604	4	ab
20 TXA549-1Ru	587	586	354	557	521	7	abcde	376	458	616	436	687	994	578	663	674	609	3	ab
Location Means	524	577	392	495	497			334	439	467	411	624	908	476	655	595	546		

Means followed by the same letter are not significantly different at the 5% level using Student's t test.

TABLE 4: 2007 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 %												
	ID	OR	TX	WA	Entry		CA	CO	ID	OR	WA	Entry							
	PAR	HRM	SPR	OTH	Mean/Rank		TUL	SLV	AB	KIM	PAR	HRM	KLA	MAL	OTH	Mean/Rank			
1 RANGER R.	489	483	392	432	436	9	cdefg	238	380	325	318	567	784	325	494	537	441	11	defg
	90	88	92	91	90	2		76	91	69	78	83	82	66	71	87	78	16	
2 R. BURBANK	432	507	228	348	361	17	hi	245	393	219	266	377	488	297	479	414	353	19	i
	80	81	60	74	72	20		74	78	47	63	65	57	56	63	75	64	19	
3 R. NORKOTAH	450	479	335	484	433	10	cdefgh	224	325	259	291	521	571	422	416	505	393	15	ghi
	93	85	85	86	86	10		78	87	78	87	90	83	77	79	82	82	13	
4 SHEPODY	481	503	377	477	452	7	bcdef	234	275	.	.	.	.	.	.	.	-	-
	90	84	87	95	88	5		68	68	.	.	.	.	.	.	.	-	-
5 A95409-1	568	546	483	503	511	1	a	304	468	370	377	656	913	403	559	518	508	4	ab
	98	95	88	96	93	1		85	94	65	87	92	96	77	90	88	86	1	
6 A96104-2	504	462	202	500	388	14	fgh	286	468	484	410	652	893	368	563	553	520	1	a
	89	80	79	90	83	14		86	93	86	86	88	77	78	84	85	85	3	
7 A97287-6	513	589	354	434	459	6	abcdef	307	.	432	342	600	719	354	629	498	485	7	bcd
	93	90	87	90	89	4		81	.	89	90	89	73	69	88	85	83	10	
8 AC96052-1RU	341	305	252	228	262	20	j	250	378	293	357	387	640	239	499	331	375	17	hi
	88	75	77	67	73	19		79	92	89	89	86	85	76	87	71	84	6	
9 AO96141-3	426	594	267	451	437	8	defgh	264	418	463	378	502	735	211	592	493	451	9	cdef
	89	84	82	87	84	11		82	92	83	75	83	70	54	72	83	77	17	
10 AO96164-1	539	526	426	491	481	4	abcd	278	419	375	397	637	836	382	717	579	513	3	ab
	93	86	86	92	88	5		81	92	67	85	94	83	64	87	88	82	13	
11 AOA95154-1	384	397	224	312	311	18	ij	283	377	443	338	519	870	285	556	473	460	8	bcde
	88	76	79	76	77	18		78	83	89	78	83	85	76	86	79	82	13	
12 AOA95155-7	315	367	209	318	298	19	j	333	317	327	424	492	701	254	519	560	436	12	efg
	89	75	81	80	79	17		89	84	83	92	90	78	68	85	85	84	6	
13 AOTX95265-2ARu	514	425	378	362	388	14	efgh	212	393	281	307	550	580	368	493	425	401	14	fghi
	93	88	89	86	88	5		80	94	77	89	91	85	77	88	84	85	3	
14 AOTX95265-3Ru	550	563	433	461	486	3	abc	249	370	256	358	596	804	338	587	479	449	10	cdef
	94	86	89	87	87	9		82	93	68	90	90	86	69	89	84	84	6	
15 AOTX95265-4Ru	544	543	420	432	465	5	abcde	275	407	279	331	612	717	344	422	429	424	13	efgh
	93	90	91	89	90	2		84	94	72	89	92	87	75	83	86	85	3	
16 CO95172-3RU	437	464	319	441	408	12	fgh	288	379	492	388	512	880	346	609	550	494	6	abcd
	90	84	76	89	83	14		81	84	91	86	82	86	70	83	82	83	10	
17 CO97087-2RU	473	467	304	446	406	13	efgh	271	365	322	241	444	549	244	442	463	371	18	hi
	89	79	79	86	81	16		81	87	75	71	78	68	59	66	83	74	18	
18 CO97138-3RU	434	473	225	440	379	16	ghi	236	354	333	308	417	555	346	453	487	388	16	ghi
	89	84	78	91	84	11		83	93	85	88	89	83	83	85	88	86	1	
19 CO97138-7RU	535	513	447	569	510	2	ab	333	448	376	335	614	763	454	539	619	498	5	abc
	86	81	93	91	88	5		87	92	68	84	88	79	77	81	89	83	10	
20 TXA549-1Ru	480	503	280	482	422	11	defgh	320	385	526	378	591	880	427	563	563	515	2	ab
	82	86	79	86	84	11		85	84	85	87	86	89	74	85	84	84	6	
Location Means	470	485	328	431	429			273	391	361	344	539	730	337	533	499	445		
	90	84	83	86	86			82	89	77	84	86	81	71	82	84	82		

Means followed by the same letter are not significantly different at the 5% level using Student's t test.

TABLE 5: 2007 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 %												
	ID	OR	TX	WA	Entry		CA	CO	ID	OR	WA	Entry							
	PAR	HRM	SPR	OTH	Mean/Rank		TUL	SLV	AB	KIM	PAR	HRM	KLA	MAL	OTH	Mean/Rank			
1 RANGER R.	252	152	178	158	185	7	cde	21	110	121	167	321	438	90	254	232	195	5	bc
	46	28	42	33	37	4		7	26	26	41	47	46	18	37	38	32	5	
2 R. BURBANK	111	63	59	43	69	17	ijk	8	63	66	74	200	138	65	164	26	89	16	fg
	21	10	16	9	14	17		2	12	14	17	35	16	12	22	5	15	17	
3 R. NORKOTAH	210	78	156	61	126	12	efghi	35	139	9	63	194	124	144	117	56	98	15	fg
	44	14	40	11	27	11		12	37	3	19	34	18	26	22	9	20	15	
4 SHEPODY	322	274	170	246	253	3	ab	7	51	.	.	.	.	.	.	.	-	-
	60	46	39	49	49	2		2	13	.	.	.	.	.	.	.	-	-
5 A95409-1	349	309	263	250	293	1	a	39	159	185	168	446	650	174	303	210	259	1	a
	60	54	48	48	52	1		11	32	32	39	62	68	33	49	36	40	1	
6 A96104-2	107	97	62	135	100	14	ghi	72	89	204	125	225	357	112	207	148	171	6	cd
	19	17	24	24	21	13		22	18	36	26	30	31	24	31	23	27	9	
7 A97287-6	188	213	116	73	147	10	cdefg	15	.	136	115	274	256	100	272	116	161	8	cde
	34	32	28	15	27	11		4	.	28	30	40	26	20	38	20	26	11	
8 AC96052-1RU	56	38	24	7	31	18	jk	56	66	68	99	70	175	49	146	19	83	18	fg
	14	9	7	2	8	18		18	16	21	25	16	23	16	26	4	18	16	
9 AO96141-3	131	156	68	64	105	13	fghi	34	196	170	74	95	261	63	196	54	127	12	defg
	27	22	21	12	21	13		11	43	31	15	16	25	16	24	9	21	12	
10 AO96164-1	292	318	180	295	271	2	a	25	195	147	128	315	445	94	323	217	210	3	abc
	50	52	36	55	48	3		7	43	26	27	46	44	16	39	33	31	6	
11 AOA95154-1	65	11	31	18	31	18	jk	50	54	161	32	51	198	37	151	23	84	17	fg
	15	2	11	4	8	18		14	12	32	7	8	19	10	23	4	14	18	
12 AOA95155-7	29	1	27	8	16	20	k	60	29	116	113	85	203	34	249	128	113	14	efg
	8	0	10	2	5	20		16	8	29	24	16	23	9	41	19	21	12	
13 AOTX95265-2ARu	262	140	165	61	157	9	cdefg	33	162	80	103	261	175	141	247	39	138	10	def
	47	29	39	14	32	8		13	39	22	30	43	26	30	44	8	28	7	
14 AOTX95265-3Ru	270	120	192	69	163	8	cdef	37	170	72	116	219	368	110	270	70	159	9	cde
	46	18	40	13	29	10		12	43	19	29	33	39	22	41	12	28	7	
15 AOTX95265-4Ru	290	192	188	77	187	6	cde	77	189	86	173	299	257	134	228	55	166	7	cde
	49	32	41	16	34	7		24	44	22	46	45	31	29	45	11	33	3	
16 CO95172-3RU	76	40	114	71	75	16	ijk	24	75	178	125	144	315	52	178	119	134	11	def
	16	7	27	14	16	15		7	17	33	28	23	31	10	24	18	21	12	
17 CO97087-2RU	133	87	49	68	84	15	hij	38	67	76	21	101	127	37	169	42	75	19	g
	25	15	13	13	16	15		11	16	18	6	18	16	9	25	8	14	18	
18 CO97138-3RU	183	162	75	126	136	11	defgh	41	107	117	76	167	236	117	189	92	127	12	defg
	38	29	26	26	30	9		14	28	30	22	36	35	28	36	17	27	9	
19 CO97138-7RU	198	142	205	271	204	4	bc	90	196	150	68	281	367	229	294	187	207	4	abc
	32	22	43	43	35	6		24	40	27	17	40	38	39	44	27	33	3	
20 TXA549-1Ru	255	194	165	144	190	5	cd	94	103	227	135	291	568	209	311	129	230	2	ab
	43	33	47	26	37	4		25	22	37	31	42	57	36	47	19	35	2	
Location Means	189	139	124	112	141			45	120	125	104	213	298	105	225	103	149		
	35	24	30	22	27			13	28	26	25	33	32	21	35	17	25		

Means followed by the same letter are not significantly different at the 5% level using Student's t test.

TABLE 6: 2007 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 %												
	ID	OR	TX	WA	Entry		CA	CO	ID	OR	WA	Entry							
	PAR	HRM	SPR	OTH	Mean/Rank		TUL	SLV	AB	KIM	PAR	HRM	KLA	MAL	OTH	Mean/Rank			
1 RANGER R.	28	48	31	32	37	18	ghi	66	33	28	13	38	53	70	44	47	44	12	efg
	5	9	7	7	8	16		21	8	6	3	6	6	14	6	8	9	8	
2 R. BURBANK	51	84	59	51	65	7	abc	69	107	39	37	62	93	76	57	109	72	2	a
	9	13	16	11	13	7		21	21	8	9	11	11	14	7	20	14	1	
3 R. NORKOTAH	25	74	55	68	66	6	bcde	52	32	51	27	45	79	53	52	91	54	7	bcdef
	5	13	14	12	13	7		18	9	15	8	8	11	10	10	15	11	6	
4 SHEPODY	14	39	37	19	32	19	hi	98	104	.	.	.	.	.	.	.	-	-
	3	6	9	4	6	19		29	26	.	.	.	.	.	.	.	-	-
5 A95409-1	11	15	48	18	27	20	i	42	20	13	22	23	19	41	23	47	28	19	h
	2	3	9	3	5	20		12	4	2	5	3	2	8	4	8	5	19	
6 A96104-2	49	80	52	50	61	8	bcd	35	32	27	32	63	103	58	58	81	54	7	bcdef
	9	14	20	9	14	6		10	6	5	7	9	9	12	9	12	9	8	
7 A97287-6	36	53	51	40	48	14	cdefgh	64	.	26	24	53	93	48	45	81	54	7	bcdef
	7	8	12	8	10	14		17	.	5	6	8	9	9	6	14	9	8	
8 AC96052-1RU	44	91	73	108	91	1	a	42	30	30	33	57	90	46	46	137	57	5	bcd
	11	23	22	32	26	1		13	7	9	8	13	12	15	8	29	13	3	
9 AO96141-3	33	75	56	48	60	9	bcdefg	43	23	31	39	66	86	96	44	76	56	6	bcde
	7	11	17	9	12	11		13	5	6	8	11	8	24	5	13	10	7	
10 AO96164-1	29	41	48	25	38	17	fghi	61	25	22	32	33	60	82	33	51	44	12	defg
	5	7	10	5	7	18		18	5	4	7	5	6	14	4	8	8	14	
11 AOA95154-1	49	115	60	88	88	2	a	67	68	27	77	93	91	75	59	113	74	1	a
	11	22	21	21	21	2		18	15	5	18	15	9	20	9	19	14	1	
12 AOA95155-7	35	95	46	75	72	4	abc	33	53	14	21	45	72	70	34	84	47	11	cdefg
	10	19	18	19	19	3		9	14	4	5	8	8	19	6	13	9	8	
13 AOTX95265-2ARu	22	44	45	50	46	15	defghi	43	19	25	20	39	76	41	33	77	41	16	fg
	4	9	11	12	11	12		16	5	7	6	6	11	8	6	15	9	8	
14 AOTX95265-3Ru	29	65	50	60	58	11	bcdefg	45	17	33	18	44	66	50	35	81	43	14	efg
	5	10	10	11	11	12		15	4	9	5	7	7	10	5	14	9	8	
15 AOTX95265-4Ru	32	40	36	39	39	16	efghi	32	18	27	20	39	64	39	29	65	37	18	gh
	6	7	8	8	8	16		10	4	7	5	6	8	8	6	13	7	17	
16 CO95172-3RU	42	72	98	50	73	3	ab	57	69	32	28	82	67	85	54	107	65	3	ab
	9	13	24	10	16	4		16	15	6	6	13	7	17	7	16	12	4	
17 CO97087-2RU	43	64	78	66	69	5	abc	52	44	25	52	71	87	60	51	78	58	4	bc
	8	11	20	13	15	5		16	10	6	15	12	11	15	8	14	12	4	
18 CO97138-3RU	29	61	62	38	54	13	bddefg	40	22	15	34	38	71	30	37	55	38	17	gh
	6	11	22	8	13	7		14	6	4	10	8	11	7	7	10	8	14	
19 CO97138-7RU	49	94	34	40	56	12	bcdef	39	37	30	43	49	86	31	50	65	48	10	cdefg
	8	15	7	6	9	15		10	8	5	11	7	9	5	7	9	8	14	
20 TXA549-1Ru	34	48	68	60	59	10	bcdefg	36	61	22	16	41	51	30	38	88	43	14	fg
	6	8	19	11	13	7		10	13	4	4	6	5	5	6	13	7	17	
Location Means	34	65	55	51	57			48	39	27	31	52	74	57	43	81	50		
	7	12	15	11	12			15	9	6	8	8	8	12	7	14	10		

Means followed by the same letter are not significantly different at the 5% level using Student's t test.

TABLE 7: 2007 Western Regional Potato Variety Trial - SPECIFIC GRAVITY - EARLY AND LATE HARVEST

No. Clone	Specific Gravity - Early Harvest					Specific Gravity - Late Harvest											
	ID PAR	OR HRM	TX SPR	WA OTH	Entry Mean/Rank	CA TUL	CO SLV	ID AB	ID KIM	OR PAR	OR HRM	OR KLA	OR MAL	WA OTH	Entry Mean/Rank		
1 RANGER R.	1.089	1.074	1.088	1.080	1.083 3	abcd	1.096	1.095	1.084	1.090	1.100	1.085	1.097	1.091	1.081	1.091 2	ab
2 R. BURBANK	1.079	1.073	1.080	1.083	1.079 9	cdef	1.089	1.089	1.073	1.076	1.077	1.079	1.091	1.078	1.083	1.082 11	f
3 R. NORKOTAH	1.069	1.069	1.078	1.078	1.073 17	gh	1.078	1.081	1.069	1.073	1.070	1.068	1.075	1.065	1.075	1.073 15	g
4 SHEPODY	1.080	1.069	1.092	1.080	1.080 6	bcde	1.086	1.084	.	.	.	.	.	.	.	-	-
5 A95409-1	1.086	1.073	1.086	1.080	1.081 5	bcd	1.093	1.095	1.087	1.085	1.088	1.082	1.095	1.089	1.082	1.089 4	bc
6 A96104-2	1.078	1.065	1.077	1.080	1.075 13	fg	1.084	1.087	1.075	1.078	1.083	1.073	1.086	1.083	1.086	1.082 11	f
7 A97287-6	1.086	1.075	1.092	1.080	1.083 3	abc	1.092	.	1.078	1.086	1.087	1.078	1.090	1.087	1.086	1.086 6	cd
8 AC96052-1RU	1.083	1.070	1.079	1.073	1.076 11	efg	1.087	1.095	1.082	1.084	1.087	1.081	1.088	1.083	1.085	1.086 6	cd
9 AO96141-3	1.086	1.080	1.093	1.085	1.086 1	a	1.090	1.101	1.089	1.093	1.087	1.094	1.101	1.092	1.092	1.093 1	a
10 AO96164-1	1.084	1.071	1.086	1.080	1.080 6	bcde	1.087	1.081	1.082	1.091	1.085	1.080	1.090	1.088	1.082	1.085 8	cde
11 AOA95154-1	1.085	1.073	1.083	1.078	1.080 6	bcde	1.093	1.093	1.088	1.091	1.101	1.085	1.091	1.088	1.092	1.091 2	ab
12 AOA95155-7	1.080	1.065	1.079	1.075	1.075 13	fg	1.085	1.083	1.072	1.085	1.092	1.073	1.083	1.079	1.086	1.082 11	f
13 AOTX95265-2ARu	1.074	1.068	1.079	1.078	1.075 13	fg	1.072	1.085	1.067	1.070	1.077	1.070	1.076	1.068	1.070	1.073 15	g
14 AOTX95265-3Ru	1.071	1.071	1.076	1.075	1.073 17	gh	1.078	1.082	1.069	1.069	1.076	1.068	1.078	1.069	1.071	1.073 15	g
15 AOTX95265-4Ru	1.072	1.070	1.078	1.075	1.074 16	fg	1.077	1.082	1.068	1.072	1.075	1.068	1.077	1.067	1.069	1.073 15	g
16 CO95172-3RU	1.087	1.072	1.082	1.073	1.078 10	def	1.086	1.093	1.082	1.082	1.091	1.080	1.095	1.088	1.085	1.087 5	c
17 CO97087-2RU	1.087	1.079	1.084	1.088	1.084 2	ab	1.087	1.097	1.079	1.078	1.083	1.083	1.090	1.084	1.089	1.085 8	cde
18 CO97138-3RU	1.072	1.069	1.081	1.070	1.073 17	gh	1.069	1.083	1.069	1.074	1.073	1.069	1.079	1.074	1.077	1.074 14	g
19 CO97138-7RU	1.070	1.059	1.076	1.070	1.069 20	h	1.071	1.072	1.079	1.072	1.075	1.063	1.077	1.068	1.074	1.072 19	g
20 TXA549-1Ru	1.079	1.068	1.083	1.075	1.076 11	efg	1.098	1.091	1.083	1.081	1.076	1.068	1.088	1.078	1.082	1.083 10	def
Location Means	1.080	1.071	1.083	1.078	1.078		1.085	1.088	1.078	1.081	1.083	1.076	1.087	1.080	1.081	1.082	

Means followed by the same letter are not significantly different at the 5% level using Student's t test.

TABLE 8: 2007 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>										<u>Length/Width</u>					
	<u>Early Trial</u>					<u>Late Trial</u>					<u>Early Trial</u>					<u>Late Trial</u>					<u>Late Trial</u>					
	OR	TX	WA	Mean		CA	ID	OR	WA	Mean	OR	TX	WA	Mean		CA	CO	ID	OR	WA	Mean	State Means ¹				
HRM	SPR	OTH			TUL	AB	KIM	HRM	OTH		HRM	SPR	OTH			TUL	SLV	AB	KIM	HRM	KLA	OTH		ID ²	OR	WA
1 RANGER R.	6.9	7.0	8.2	7.4		5.3	8.3	9.6	9.7	8.1	8.2	5.0	4.5	4.0	4.5	4.8	5.0	5.0	4.5	5.0	5.0	3.3	4.7	2.52	1.98	1.66
2 R. BURBANK	5.9	6.6	6.4	6.3		5.2	7.5	7.6	7.3	5.2	6.6	5.0	4.7	3.0	4.2	4.0	5.0	4.7	4.5	5.0	4.4	3.0	4.4	2.22	1.97	1.84
3 R. NORKOTAH	6.1	6.9	6.3	6.4		5.7	5.5	6.8	7.0	5.9	6.2	4.3	4.5	4.0	4.3	4.0	5.0	4.3	3.8	4.7	4.5	4.0	4.3	2.36	1.82	-
4 SHEPODY	8.4	8.1	9.7	8.7		4.6	.	.	.	.	-	4.2	4.4	3.0	3.9	4.5	5.0	.	.	.	.	.	-	-	.	-
5 A95409-1	9.1	8.3	9.5	9.0		6.6	10.3	9.7	12.2	7.9	9.3	3.9	4.7	3.0	3.9	4.0	4.0	4.0	3.8	4.0	3.8	3.0	3.8	2.08	1.65	1.63
6 A96104-2	5.8	5.8	7.3	6.3		6.8	8.9	8.0	7.9	6.6	7.6	4.8	3.7	3.0	3.8	4.3	4.0	4.3	3.5	4.7	4.3	3.0	4.0	2.09	1.83	1.53
7 A97287-6	7.2	6.9	7.0	7.0		5.5	8.0	7.7	7.3	6.3	7.0	4.7	4.1	3.0	3.9	4.0	.	4.8	4.5	4.5	4.0	2.0	4.0	2.18	1.77	1.55
8 AC96052-1RU	5.2	5.8	4.5	5.2		6.4	7.0	7.0	7.1	4.6	6.4	4.0	3.9	2.8	3.6	4.0	4.0	3.5	3.3	3.9	3.6	2.3	3.5	1.96	1.61	1.45
9 AO96141-3	6.5	6.2	6.6	6.4		6.0	8.5	7.1	8.0	5.9	7.1	4.9	4.7	4.0	4.5	5.0	5.0	5.0	5.0	5.0	4.9	4.3	4.9	2.72	1.96	2.11
10 AO96164-1	8.3	7.2	9.8	8.4		5.6	8.8	7.8	9.3	7.7	7.8	4.6	4.6	4.0	4.4	4.3	5.0	5.0	4.3	4.3	4.6	3.0	4.4	2.01	1.73	1.74
11 AOA95154-1	4.7	5.4	5.2	5.1		5.7	8.3	5.5	7.4	5.3	6.4	4.3	3.7	3.0	3.7	4.0	4.0	4.0	2.8	4.3	3.9	3.0	3.7	2.33	1.74	1.59
12 AOA95155-7	5.0	5.4	5.0	5.1		6.9	8.6	8.1	7.9	6.4	7.6	4.3	3.6	3.3	3.7	4.0	4.0	4.3	3.5	4.9	3.8	2.0	3.8	2.17	1.88	1.49
13 AOTX95265-2ARu	6.5	7.1	6.4	6.7		6.0	7.4	8.0	7.5	5.8	6.9	4.9	4.5	3.8	4.4	4.0	4.0	4.5	3.8	4.9	4.0	4.0	4.2	2.34	1.87	1.83
14 AOTX95265-3Ru	6.4	8.6	6.7	7.2		5.9	7.1	8.0	8.8	6.0	7.2	4.8	4.5	4.0	4.4	4.0	4.0	4.5	4.0	5.0	4.5	4.0	4.3	2.34	1.91	-
15 AOTX95265-4Ru	7.4	8.9	7.1	7.8		6.9	7.9	8.8	8.1	6.2	7.6	4.7	3.9	3.3	4.0	4.0	4.0	4.5	3.8	4.9	4.4	4.0	4.2	2.28	1.87	-
16 CO95172-3RU	5.4	5.9	6.6	6.0		5.6	8.1	7.8	8.5	6.1	7.2	4.2	4.0	3.0	3.7	4.0	4.0	3.5	3.8	4.2	4.0	3.0	3.8	1.95	1.70	-
17 CO97087-2RU	6.2	5.6	6.2	6.0		5.8	7.3	5.7	7.5	5.7	6.4	3.6	3.7	2.3	3.2	4.0	4.0	4.3	3.5	3.7	4.4	3.3	3.9	2.50	1.58	1.71
18 CO97138-3RU	6.7	6.1	7.4	6.7		6.2	8.8	6.6	8.0	6.7	7.3	4.2	3.8	4.0	4.0	4.3	5.0	4.3	3.5	4.7	4.3	3.3	4.2	2.51	1.82	-
19 CO97138-7RU	6.1	8.1	8.9	7.7		7.1	8.7	6.4	8.3	7.1	7.5	4.2	4.0	4.0	4.1	4.0	5.0	4.3	2.5	4.4	4.6	3.3	4.0	1.98	1.75	-
20 TXA549-1Ru	7.4	7.5	7.0	7.3		7.4	9.3	8.7	10.8	6.3	8.5	3.6	4.0	2.5	3.4	3.8	4.0	2.8	2.8	3.9	3.0	2.0	3.2	1.99	1.61	1.55
Location Means	6.6	6.9	7.1	6.8		6.1	8.1	7.6	8.3	6.3	7.3	4.4	4.2	3.3	4.0	4.2	4.4	4.3	3.7	4.5	4.2	3.1	4.1	2.24	1.79	1.67

¹ Idaho L/W ratios based on Aberdeen and Kimberly locations; Oregon based on Hermiston location; Washington based on Othello location

TABLE 9: 2007 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	Oth ²	Ab ³	Early Trial	Late Trial
1 RANGER R.	4.9	4.6	5.0	4.5	4.8	4.8	2.5	3.0	5.0	4.7 AB 4.0
2 R. BURBANK	4.3 OTH 3.5	3.9 AB, KIM, OTH 3.3	4.0 OTH 3.5	3.8 KIM 3.0 OTH 3.3	4.7	4.6	3.0	2.4	5.0	5.0
3 R. NORKOTAH	5.0	5.0	5.0	5.0	4.8	4.8	2.0	2.8	5.0	4.9
4 SHEPODY	4.8	-	5.0	-	4.8	-	.	-	4.6 HRM 3.9	-
5 A95409-1	5.0	4.6	5.0	4.6	4.7	4.3	2.0	2.4	5.0	4.7 AB 4.0
6 A96104-2	5.0	4.8	5.0	4.9	4.5	4.6	2.0	2.5	5.0	4.9
7 A97287-6	4.8	4.8	4.9	4.9	4.5	4.6	2.0	2.5	5.0	4.9
8 AC96052-1RU	4.8	5.0	5.0	5.0	3.6 OTH 2.0	4.1	1.0	2.3	5.0	5.0
9 AO96141-3	5.0	4.6	5.0	4.9	4.3	4.6	3.0	3.2	5.0	4.9
10 AO96164-1	5.0	4.8	5.0	5.0	4.7	4.3	2.0	2.1	5.0	5.0
11 AOA95154-1	5.0	5.0	4.8	4.9	4.7	4.6	1.8	3.0	5.0	5.0
12 AOA95155-7	5.0	4.9	4.9	4.9	4.0 OTH 2.0	4.5	1.0	2.7	5.0	5.0
13 AOTX95265-2ARu	5.0	5.0	4.9	5.0	4.3	4.7	3.0	2.9	5.0	4.9
14 AOTX95265-3Ru	5.0	4.9	5.0	4.8	4.7	4.6	2.5	2.8	5.0	5.0
15 AOTX95265-4Ru	5.0	4.9	5.0	4.9	4.7	4.8	3.0	2.8	5.0	5.0
16 CO95172-3RU	4.9	4.9	5.0	4.8	4.0 OTH 2.0	4.1	1.8	2.2	5.0	4.9
17 CO97087-2RU	5.0	4.9	5.0	4.8	4.8	4.7	2.5	3.3	5.0	5.0
18 CO97138-3RU	5.0	4.6	4.9	4.8	4.3	4.5	3.0	3.2	5.0	4.9
19 CO97138-7RU	5.0	4.5 HRM 3.6	5.0	4.8	4.7	4.3	2.0	2.3	5.0	4.7 KIM 4.0
20 TXA549-1Ru	4.8	4.5	5.0	5.0	4.0 OTH 2.3	3.3 HRM 2.6	2.0	2.4	5.0	4.8
Entry Means	4.9	4.7	4.9	4.8	4.5	4.5	2.2	2.7	5.0	4.9

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

²Othello scores reflect severe harvest conditions..

³Aberdeen shatter scores reflect dropping from shatter chamber [1-5(none)].

TABLE 10: 2007 Western Regional Potato Variety Trial - INTERNAL DEFECTS MEANS OF LOCATIONS - HOLLOW HEART/BROWN CENTER, INTER BROWN SPT, 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	% Bruise
	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial		
1 RANGER R.	0	0	0	1	4	1	4.2 OTH 3.0	4.0	2.5	49
2 R. BURBANK	3 HRM 10	5	0	4	6	1	4.2	4.0 OTH 2.5	3.1	30
3 R. NORKOTAH	1	1	1	0	0	0	4.5	4.2	2.4	
4 SHEPODY	1	-	2	-	14 SPR 25	-	4.3	-	-	
5 A95409-1	0	1	0	0	1	1	4.3	3.4 OTH 2.0	2.6	37
6 A96104-2	0	11 KLA 33 AB 23	0	0	2	2	4.7	4.6	3.3	35
7 A97287-6	1	5 AB 33	0	1	8	7 KLA 20	4.5	4.3	3.6	31
8 AC96052-1RU	0	1	0	1	2	1	4.6	4.3	3.2	45
9 AO96141-3	0	5 AB 30	0	1	9	3	4.6	4.3	3.4	10
10 AO96164-1	0	0	0	0	3	1	4.4	3.9 OTH 2.0	2.5	21
11 AOA95154-1	0	2	0	8 HRM 45	5	0	4.3	4.7	3.3	34
12 AOA95155-7	3	4 AB 23	0	0	0	0	4.5	5.0	4.2	7
13 AOTX95265-2ARu	0	5 AB 20	0	0	1	1	4.2 OTH 3.0	4.3	2.5	26
14 AOTX95265-3Ru	0	3 TUL 20	0	0	8	1	4.3	4.3	2.7	
15 AOTX95265-4Ru	1	7 AB 33	0	0	3	0	4.1 OTH 3.0	4.3	2.6	
16 CO95172-3RU	5 OTH 14	1	0	2	3	1	4.5	4.0 OTH 2.5	2.4	
17 CO97087-2RU	1	0	1	0	0	1	4.5	4.2	3.2	15
18 CO97138-3RU	0	2	1	0	4	1	4.6	4.4	3.2	
19 CO97138-7RU	0	1	0	0	1	1	3.8 OTH 2.0	4.0 OTH 2.0	2.5	
20 TXA549-1Ru	0	8 AB 28	1	2	4	0	3.8 OTH 2.0	3.6 OTH 2.0	2.1	61
Entry Means	1	3	0	1	4	1	4.3	4.2	2.9	31

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

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: 2007 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	OTH		AB	KIM	OTH		AB	KIM	HRM	MAL		
L	E	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
1 RANGER R.	1.0	0.1	0.3	0.0	0.4	2.0	0.6	0.3	0.9	2.0	1.2	3.2	3.3	3.0	3.2	30	34	0	5	0	14
2 R. BURBANK	2.0	1.8	0.3	0.0	1.0	2.0	0.4	0.6	1.4	1.0	1.1	3.7	3.8	3.0	3.5	17	67	0	48	0	26
3 R. NORKOTAH	1.0	0.7	0.5	.	0.7	2.0	1.3	0.8	1.5	.	1.4	4.0	4.0	.	4.0	34	8	0	10	3	11
4 SHEPODY	2.0	0.0	.	.	1.0	3.0	.	.	.	.	-	.	.	.	.	.	.	0	.	.	.
5 A95409-1	0.0	0.1	1.5	0.0	0.4	2.0	0.8	0.6	1.3	2.0	1.3	3.5	2.8	3.0	3.1	74	46	0	3	0	25
6 A96104-2	1.0	0.3	0.3	0.0	0.4	1.0	0.6	0.4	0.9	0.0	0.6	3.6	3.3	2.0	3.0	27	17	0	3	0	9
7 A97287-6	.	0.0	0.1	0.0	0.0	.	0.4	0.2	1.0	0.0	0.4	2.2	1.3	2.0	1.8	41	50	0	48	0	28
8 AC96052-1RU	0.0	0.0	0.1	0.0	0.0	1.0	0.3	0.3	0.2	0.0	0.4	2.6	1.2	2.0	1.9	48	50	0	3	0	20
9 AO96141-3	1.0	0.0	0.3	0.0	0.3	2.0	0.3	0.5	0.0	0.0	0.6	2.4	2.3	4.0	2.9	54	58	0	0	0	22
10 AO96164-1	1.0	0.5	0.1	0.0	0.4	2.0	0.3	0.4	0.3	0.0	0.6	1.1	1.2	4.0	2.1	27	25	3	0	0	11
11 AOA95154-1	0.0	0.0	0.1	0.0	0.0	1.0	0.3	0.3	0.4	0.0	0.4	2.5	0.7	2.0	1.7	52	35	0	5	0	18
12 AOA95155-7	0.0	0.0	0.1	0.0	0.0	1.0	0.2	0.4	0.5	1.0	0.6	2.7	1.5	0.0	1.4	35	33	0	13	0	16
13 AOTX95265-2ARu	1.0	0.8	0.1	0.0	0.5	3.0	1.3	1.1	1.6	3.0	2.0	4.0	4.0	0.0	2.7	38	42	0	15	0	19
14 AOTX95265-3Ru	1.0	0.8	1.5	.	1.1	2.0	1.5	0.9	1.7	.	1.5	4.0	3.8	.	3.9	19	8	3	15	0	9
15 AOTX95265-4Ru	2.0	1.1	1.0	.	1.4	2.0	1.1	1.2	1.6	.	1.5	3.9	4.0	.	4.0	6	9	3	20	0	8
16 CO95172-3RU	1.0	1.1	1.0	0.0	0.8	1.0	0.7	0.4	1.4	.	0.9	3.7	3.5	.	3.6	11	36	0	8	0	11
17 CO97087-2RU	0.0	0.0	1.0	0.0	0.3	1.0	0.1	0.4	0.0	0.0	0.3	3.5	2.5	2.0	2.7	54	63	0	0	0	23
18 CO97138-3RU	1.0	1.2	0.1	.	0.8	3.0	2.0	1.7	2.2	.	2.2	3.9	3.7	.	3.8	42	21	0	40	3	21
19 CO97138-7RU	0.0	1.3	1.5	.	0.9	2.0	0.9	0.4	2.3	.	1.4	3.9	3.5	.	3.7	54	34	0	30	0	24
20 TXA549-1Ru	0.0	0.5	1.5	0.0	0.5	1.0	0.2	0.2	1.3	1.0	0.7	3.2	2.9	1.0	2.4	42	67	0	33	0	28
Location Means	0.8	0.5	0.6	0.0	0.5	1.8	0.7	0.6	1.1	0.8	1.0	3.2	2.8	2.2	2.9	37	37	0	16	0	18

Storage protocol prior to frying

Aberdeen - 7 weeks from 50F to 45F, 7 weeks from 50F to 40F, and 7 weeks @ 40F and 45F.

Hermiston - 3 weeks from 60F to 45F, and 5 weeks @45F.

Kimberly - 3 weeks from 50F to 45F, 4 weeks from 50F to 40F, and 8 weeks @ 40F, 7 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 9 weeks @ 45F.

* Comprehensive post harvest evaluations of entries can be found in the 2007 Potato Cultivar Yield & Post Harvest Quality Evaluations - Washington State University. Contact: Rick Knowles. www.potatoes.wsu.edu

TABLE 12: 2007 Western Regional Potato Variety Trial - DISEASE EVALUATION AND METRIBUZIN REACTION

No.	Clone	Vert. Wilt/ Early Dying		Early Blight AB ¹	Late Blight Corvallis ³			Common Scab AB ¹		Net Necrosis/ Vasc. Discoloration ¹		% Virus Infection		Prosser		Fusarium		Erwinia	Metribuzin
		AB ¹	HRM ²		Foliar	Tuber	AUDPC	% Serious	%	% Serious	PVY	PLRV	% Corky	Root-	Dry Rot ¹ (0-5)		Soft Rot ¹	Reaction ⁵	
		(0-9)	(0-9)	(1-9)	%	(0-5)	Defect	Incidence	Defect	HRM ²		Rngspt ⁴	knot ⁴	F(sam)	F(sol)	(0-5)	AB		
1	RANGER R.	5.2	7.3	5.2	9.0	83	1587	3.0	66	82	3.0	100	65	75	S	2.0	4.4	1.4	R
2	R. BURBANK	6.7	7.8	6.5	8.5	15	1557	0.7	0	63	0.0	95	100	43	S	4.4	4.1	3.3	R
3	R. NORKOTAH	9.0	9.0		9.0	63	1600	3.0	17	48	0.0	90	85	28	S	1.1	3.7	0.7	R
4	SHEPODY	6.5		7.0				4.0	62	93	1.7	-	-	40	S	2.0	2.5	3.1	S
5	A95409-1	4.1	8.5	5.8	9.0	70	1572	2.3	10	35	0.0	90	85	23	S	3.4	4.6	3.6	R
6	A96104-2	4.5	5.5	5.7	9.0	25	1572	2.7	2	46	4.3	95	100	65	S	4.5	1.7	2.1	R
7	A97287-6	-	7.5	-	9.0	0	1555	-	-	-	-	95	60	80	S	-	-	-	R
8	AC96052-1RU	3.8	4.5	4.7	9.0	23	1593	0.0	0	54	0.0	70	80	33	S	4.0	4.0	1.7	MS
9	AO96141-3	5.2	5.6	5.3	8.3	8	1531	1.7	1	76	18.0	25	100	45	S	3.9	1.4	0.9	R
10	AO96164-1	5.2	7.0	6.2	8.8	10	1560	2.7	5	43	6.7	85	70	60	S	4.5	4.2	2.7	MR
11	AOA95154-1	2.8	2.3	4.8	9.0	5	1575	1.0	0	75	2.3	30	100	50	S	4.5	2.3	1.7	R
12	AOA95155-7	2.3	4.3	4.2	8.8	33	1579	2.0	3	54	0.0	15	100	53	S	3.9	2.8	1.9	R
13	AOTX95265-2ARu	8.2	8.3	6.8	9.0	47	1597	2.7	20	82	0.0	70	60	33	S	1.2	2.4	1.9	R
14	AOTX95265-3Ru	7.5	8.8	7.3	9.0	60	1587	3.3	11	72	3.7	85	90	38	S	1.5	2.1	2.5	R
15	AOTX95265-4Ru	7.8	8.6	7.5	9.0	62	1587	2.3	10	76	0.0	80	95	15	S	1.2	3.2	0.7	R
16	CO95172-3RU	2.8	5.3	5.3	9.0	38	1590	2.3	8	68	0.0	60	100	90	S	4.5	3.6	1.2	R
17	CO97087-2RU	6.8	7.0	7.3	9.0	8	1593	0.3	0	17	0.0	90	90	0	S	2.4	2.1	0.9	R
18	CO97138-3RU	7.5	8.8	7.0	9.0	10	1597	0.7	0	74	0.0	100	100	50	S	2.7	3.0	3.3	R
19	CO97138-7RU	5.7	8.3	5.8	9.0	13	1600	4.7	68	46	0.0	85	95	43	S	4.6	3.9	4.3	MS
20	TXA549-1Ru	5.0	8.0	6.5	9.0	35	1572	3.7	40	60	19.7	100	95	18	S	1.3	3.2	1.1	R
Entry Means		5.6	7.0	6.0	8.9	32	1579	2.3	17	61	3.1	77	88	44		3.0	3.1	2.0	
LSD (.05)		2.0	1.3	2.0	0.5	22	90	1.4	19.0	27.0	6.0					0.7	0.7	n.s.	

¹ Evaluations made at Aberdeen, Idaho by Jonathan Whitworth; scale as indicated with highest number being most severe. For 0 to 9: 0=no symptoms; 1= trace; 2=1-5%; 3=5-10%; 4=10-20%; 5=25-40%; 6=40-60%; 7=60-70%; 8=75-90%; 9=90-100% dead or dying with typical disease symptoms. Common Scab and Net Necrosis serious defects are the number of tubers with a 3 rating (0-5 scale) or higher, divided by the total number of tubers examined.

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

% Virus are from evaluation of sprouts from tubers grown under high virus pressure.

³ Evaluations made at Corvallis, Oregon by Solomon Yilma; 1=no foliar injury; 3=5-10%; 5=25-40%; 7=60-75%; 8=75-90%; 9=90-100%.

Tuber % based on examination at harvest and showing any tuber late blight symptoms. AUDPC = Area Under the Disease Progress Curve.

⁴ Evaluations made at Prosser, Washington by Chuck Brown: S=susceptible.

⁵ Evaluations made at Aberdeen; R=resistant, MR=moderately resistant, MS, S=susceptible, VS=very susceptible.

**TABLE 13: 2007 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/100g FWB) ¹
		Dextrose (%FWB) ¹	Sucrose (%FWB) ¹			
1 RANGER RUSSET	21.5	0.07	0.19	6.1	31.3	4.7
2 RUSSET BURBANK	19.5	0.11	0.14	5.0	22.9	3.9
3 RUSSET NORKOTAH	18.7	0.12	0.12	5.0	22.4	4.0
5 A95409-1	22.3	0.10	0.24	5.7	27.9	2.1
6 A96104-2	19.4	0.09	0.16	6.6	21.6	11.3
7 A97287-6	21.4	0.08	0.22	7.5	30.3	3.8
8 AC96052-1RU	21.8	0.04	0.19	7.7	29.6	0.9
9 AO96141-3	23.0	0.06	0.27	6.9	23.7	5.1
10 AO96164-1	20.7	0.05	0.14	6.1	31.3	2.4
11 AOA95154-1	23.3	0.05	0.16	6.9	24.7	2.8
12 AOA95155-7	20.0	0.04	0.16	7.9	19.7	1.3
13 AOTX95265-2ARU	18.9	0.15	0.13	5.3	22.3	3.3
14 AOTX95265-3RU	18.8	0.11	0.13	5.8	22.4	2.8
15 AOTX95265-4RU	18.8	0.11	0.12	5.4	24.8	2.6
16 CO95172-3RU	21.9	0.06	0.15	6.3	33.3	1.7
17 CO97087-2RU	20.8	0.04	0.13	7.4	19.8	3.7
18 CO97138-3RU	18.6	0.15	0.19	6.0	22.7	2.0
19 CO97138-7RU	17.0	0.11	0.11	4.5	21.6	3.6
20 TXA549-1RU	21.3	0.06	0.16	5.3	19.5	2.4
Entry Means	20.4	0.08	0.16	6.2	24.8	3.4

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

² Glycoalkaloids: The 2007 Lenape check from Aberdeen was 43.7 mg/100g

TABLE 14: 2007 Western Regional Potato Variety Trial - MERIT SCORES [1-5(best)]

No. Clone	Process										Process WA ¹ 3 State Mean	Fresh								
	CO	ID			OR		WA		Entry Mean/Rank	CO		ID			OR	TX	WA		Entry Mean/Rank	
	SLV	AB	KIM	HRM	OTH	OTH	OTH	SLV		AB		KIM	HRM	SPR	OTH	OTH				
L	L	L	E	L	E	L		L	L	L	E	L	E	E	L					
1 RANGER R.	4.0	3.0	2.5	4.5	4.5	3.4	3.2	3.6	3	3.4	3.0	2.0	3.4	3.0	3.0	2.4	2.6	3.3	2.8	15
2 R. BURBANK	4.0	2.0	2.0	3.0	1.5	2.7	1.5	2.4	15	2.2	3.0	1.3	2.6	3.0	1.0	1.5	1.9	1.4	2.0	19
3 R. NORKOTAH	2.0	1.5	3.0	3.0	2.0	2.7	1.5	2.3	18	.	1.0	2.8	3.3	4.5	4.5	4.0	3.5	2.9	3.3	8
4 SHEPODY	1.0	.	.	3.5	.	3.7	.	-	.	.	1.0	.	.	1.0	.	3.3	1.9	.	1.8	20
5 A95409-1	5.0	1.5	3.3	4.0	3.0	3.7	3.2	3.4	6	3.0	5.0	1.8	3.6	3.0	3.0	3.5	4.2	4.1	3.5	2
6 A96104-2	5.0	3.2	3.3	3.5	4.0	3.2	3.2	3.6	3	3.7	5.0	4.0	3.2	3.0	2.0	3.4	3.6	3.1	3.4	5
7 A97287-6	.	4.0	3.3	4.5	2.5	3.4	3.8	3.6	3	3.9	.	4.3	3.8	4.5	3.0	2.9	3.3	2.2	3.4	5
8 AC96052-1RU	4.0	3.5	3.8	2.0	3.5	1.4	1.9	2.9	9	4.0	3.0	3.5	4.0	3.0	3.0	3.6	1.6	1.6	2.9	14
9 AO96141-3	4.0	3.7	3.0	4.8	4.0	4.3	3.8	3.9	1	4.3	3.0	3.0	3.4	4.0	3.0	1.5	4.2	2.8	3.1	11
10 AO96164-1	5.0	4.2	3.5	3.0	4.5	3.9	3.3	3.9	1	4.2	4.0	2.8	4.2	3.5	3.0	2.9	3.5	3.8	3.5	2
11 AOA95154-1	4.0	4.2	2.0	3.0	1.0	2.8	3.5	2.9	9	4.0	3.0	4.3	4.0	2.5	1.0	3.3	2.6	3.1	3.0	13
12 AOA95155-7	2.0	3.2	4.0	2.0	3.0	1.6	3.1	2.7	14	3.5	1.0	3.8	4.2	2.0	1.0	3.3	1.4	3.5	2.5	17
13 AOTX95265-2ARu	1.0	2.2	4.0	2.5	2.5	3.3	1.6	2.4	15	1.9	2.0	3.3	2.0	4.5	3.5	3.7	3.8	2.9	3.2	10
14 AOTX95265-3Ru	4.0	2.4	4.0	2.5	2.5	3.3	1.9	2.9	9	.	3.0	2.8	2.2	4.0	5.0	3.5	4.1	3.3	3.5	2
15 AOTX95265-4Ru	4.0	2.0	3.5	2.0	2.5	3.1	2.7	2.8	12	.	4.0	2.8	2.4	4.5	4.0	4.4	3.8	3.4	3.7	1
16 CO95172-3RU	4.0	3.9	3.0	2.0	3.0	2.5	2.3	3.0	8	.	3.0	4.3	3.5	4.0	3.5	3.2	2.4	2.7	3.3	8
17 CO97087-2RU	4.0	3.2	2.0	2.5	2.5	3.2	4.3	3.1	7	4.0	3.0	2.0	2.5	1.0	1.5	2.2	2.9	3.3	2.3	18
18 CO97138-3RU	1.0	2.0	3.8	2.5	1.0	2.9	2.8	2.3	18	.	2.0	3.5	2.0	3.0	3.0	3.5	4.1	4.0	3.1	11
19 CO97138-7RU	3.0	2.6	3.3	2.0	1.0	3.0	1.9	2.4	15	.	5.0	2.5	3.2	3.5	1.0	3.5	4.4	4.3	3.4	5
20 TXA549-1Ru	4.0	3.6	3.3	2.0	1.0	3.1	2.7	2.8	12	3.1	3.0	2.8	3.2	1.0	1.0	4.2	3.6	3.2	2.7	16
Location Means	3.4	2.9	3.2	2.9	2.6	3.1	2.7	3.0		3.5	3.0	3.0	3.2	3.1	2.6	3.2	3.2	3.1	3.0	

¹ Score based upon Idaho, Oregon, and Washington samples evaluated postharvest at Washington State University. (www.potatoes.wsu.edu)

TABLE 15: 2007 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)		Specific Gravity ²	Fry 45 Color	% Cumulative Shrink ³		Merit Score		Noted Weaknesses	Disposition 2008
						Early	Late			Process	Fresh				
1 RANGER R.	-	Dual	561	441	78	7.4	8.2	1.091	1.2	9.4	3.6	2.8		Check	
2 R. BURBANK	-	Dual	557	353	64	6.3	6.6	1.082	1.1	10.7	2.4	2.0		Check	
3 R. NORKOTAH	-	Fresh	476	393	82	6.4	6.2	1.073	1.4	24.6	2.3	3.3		Check	
4 SHEPODY	-	Proc	518	452	88	8.7	-	1.080	-	-	-	1.8		Check	
5 A95409-1	3	Dual	585	508	86	9.0	9.3	1.089	1.3	9.4	3.4	3.5	Fusarium (sol); Erwinia Tuber LB	Graduate	
6 A96104-2	3	Dual	620	520	85	6.3	7.6	1.082	0.6	7.8	3.6	3.4	HH (Late); Fusarium (sam)	Graduate	
7 A97287-6	1	Dual	591	485	83	7.0	7.0	1.086	0.4	-	3.6	3.4	Corky Ringspot	Discard	
8 AC96052-1RU	2	Dual	446	375	84	5.2	6.4	1.086	0.4	7.4	2.9	2.9	Low yield (E&L); smaller tuber Shat. (E&L); Fus.; Metri. (MS)	Return	
9 AO96141-3	2	Dual	588	451	77	6.4	7.1	1.093	0.6	8.9	3.9	3.1	NN/VD	Return	
10 AO96164-1	3	Dual	622	513	82	8.4	7.8	1.085	0.6	11.4	3.9	3.5	Fusarium (sam & sol)	Graduate	
11 AOA95154-1	3	Dual	557	460	82	5.1	6.4	1.091	0.4	9.5	2.9	3.0	Smaller tuber size; Fusarium (sam)	Graduate	
12 AOA95155-7	3	Dual	521	436	84	5.1	7.6	1.082	0.6	10.5	2.7	2.5	Shatter (E&L)	Graduate	
13 AOTX95265-2ARu	2	Fresh	469	401	85	6.7	6.9	1.073	2.0	12.3	2.4	3.2	Low yield (E&L)	Return (early)	
14 AOTX95265-3Ru	1	Dual	532	449	84	7.2	7.2	1.073	1.5	12.7	2.9	3.5	Low gravity (Process) Vert/ED; EB; Tuber LB	Return (early)	
15 AOTX95265-4Ru	2	Fresh	498	424	85	7.8	7.6	1.073	1.5	12.1	2.8	3.7	Vert/ED; EB; Tuber LB	Return	
16 CO95172-3RU	3	Fresh	594	494	83	6.0	7.2	1.087	0.9	8.1	3.0	3.3	Shatter(E&L); Corky Ringspot Fusarium (sam & sol)	Graduate	
17 CO97087-2RU	1	Dual	503	371	74	6.0	6.4	1.085	0.3	10.9	3.1	2.3		Return	
18 CO97138-3RU	1	Fresh	450	388	86	6.7	7.3	1.074	2.2	14.3	2.3	3.1	Low yield (E&L); Vert/ED; EB Erwinia	Discard	
19 CO97138-7RU	1	Fresh	604	498	83	7.7	7.5	1.072	1.4	8.1	2.4	3.4	Common Scab; Fusarium Erwinia; Metribuzin (MS)	Discard	
20 TXA549-1Ru	3	Dual	609	515	84	7.3	8.5	1.083	0.7	8.1	2.8	2.7	Shat. (E&L); Bspt Bruise (E&L) Common Scab; NN/VD	Graduate	
Entry Means			545	446	82	6.8	7.3	1.082	1.0	10.9	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).

³ 2006 entries at Tulelake, CA; Evaluated at 173 days after harvest.

TABLE 16: 2007 Western Regional Potato Variety Trial - 3 YEAR SUMMARY OF GRADUATING ENTRIES - LATE TRIAL LOCATION MEANS

Clone	2005						2006						2007					
	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	
A95409-1	647 (5/21)	576 88	1.088	1.4	3.6	3.5	591 (5/21)	518 86	1.086	1.5	3.4	3.3	585 (8/19)	508 86	1.089	1.3	3.5	3.4
A96104-2	698 (2/21)	579 83	1.080	1.2	3.1	3.2	553 (14/21)	453 82	1.081	1.0	3.2	2.8	620 (2/19)	520 85	1.082	0.6	3.4	3.6
AO96164-1	622 (9/21)	517 82	1.080	0.6	3.1	3.3	593 (8/21)	477 78	1.083	0.8	3.2	3.8	622 (1/19)	513 82	1.085	0.4	3.5	3.9
AOA95154-1	560 (14/21)	468 83	1.086	0.9	2.9	2.6	556 (12/21)	449 80	1.088	0.5	2.5	2.7	557 (10/19)	460 82	1.091	0.4	3.0	2.9
AOA95155-7	550 (15/21)	457 83	1.081	0.6	3.1	2.5	569 (9/21)	477 83	1.082	0.4	2.4	2.7	521 (13/19)	436 85	1.082	0.6	2.5	2.7
CO95172-3RU	625 (8/21)	509 82	1.086	1.6	3.0	2.7	590 (6/21)	473 80	1.085	1.4	2.6	3.1	594 (5/19)	494 85	1.087	0.9	3.3	3.0
TXA549-1Ru	679 (4/21)	562 83	1.082	1.0	3.1	2.9	592 (4/21)	481 80	1.081	1.1	3.0	2.8	609 (3/19)	515 74	1.083	0.7	2.7	2.8
RANGER R.	631 (7/21)	510 81	1.087	1.6	3.0	3.7	544 (15/21)	399 72	1.091	1.3	3.2	3.4	561 (9/19)	441 78	1.091	1.2	2.8	3.6
R. NORKOTAH	455 (21/21)	377 82	1.073	1.8	3.1	2.0	409 (21/21)	329 80	1.073	1.8	3.0	2.2	476 (16/19)	393 82	1.073	1.4	3.3	2.3
R. BURBANK	606 (10/21)	359 60	1.081	1.6	2.2	2.6	564 (10/21)	327 58	1.081	1.4	2.0	2.6	557 (10/19)	353 64	1.082	1.1	2.0	2.4
Trial Mean	593	486 82	1.083	1.2	2.9	3.0	554	439 79	1.082	1.2	2.9	2.8	545	446 82	1.082	1.0	3.0	3.0

Clone	Total Yield ¹ &(rank)	US #1 Yield ¹ & %	SG	FRY 45	Merit Score Fresh Proc	3 Year Average (2005-2007)			Noted Weaknesses	Noted Strengths
						Yield ¹ &(rank)	US #1 Yield ¹ & %	SG		
A95409-1	608 (70)	534 87	1.088	1.4	3.5	3.4	Blackspot (Late) 2/3; Tuber LB (3/3); Fusarium (sol) 3/3	High U.S. 1 % and yield 3/3; Large tuber 3/3; High Merit Fresh 3/3		
A96104-2	624 (71)	517 83	1.081	0.9	3.2	3.2	HH (Late) 2/3	High Total Yield (L) 2/3		
AO96164-1	612 (70)	502 81	1.083	0.6	3.3	3.7	Fusarium (sam & sol) 3/3	High Total Yield (E&L) 3/3; Tuber LB Res. 3/3 High Merit Process 2/3		
AOA95154-1	558 (41)	459 82	1.088	0.6	2.8	2.7	Erwinia 2/3; Fusarium (sam) 2/3; IBS (Herm) 3/3	High gravity (L) 2/3; Cold Sweet Res 2/3; Vert/ED Res 3/3; LB tuber Res 3/3; MR-PVY 2/2; EB Res 3/3		
AOA95155-7	547 (39)	457 84	1.082	0.5	2.7	2.6	None over years	Vert/ED 2/3; EB 3/3; MR-PVY 2/2; High Protein 3/3		
CO95172-3RU	603 (69)	492 82	1.086	1.3	3.0	2.9	Shatter (E&L) 2/3 & (L) 3/3	High Vit.C 2/3; High Total Yld (E&L) 3/3; Corky Res. 2/3		
TXA549-1Ru	627 (82)	519 79	1.082	0.9	2.9	2.8	Blackspot (E&L) 2/3; Scab 2/3			
RANGER R.	579 (49)	450 77	1.090	1.3	3.0	3.6				
R. NORKOTAH	447 (5)	366 82	1.073	1.7	3.1	2.1				
R. BURBANK	576 (51)	346 61	1.081	1.4	2.0	2.5				
Trial Mean³	564	457 81	1.082	1.1	2.9	2.9				

¹ (CWT/A)² Percent of entries with lower yields; e.g. 70% of all late trial entries over three years, yielded lower than A95409-1³Late Trial mean of all trial entries 2005-2007