

2006 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS Cooperating

California

Colorado

Idaho

Oregon

Texas

Washington



2006 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

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Western Regional Potato Variety Trial Reports (1998-2006) 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: 2006 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.	260-240-0-110	13-May	11-Oct	128	151	Sencore DF Matrix	Monitor	Dithane F45 Maxim, Bravo
										Reglone		
2	San Luis Valley Colorado (SLV)	D. Holm, F. Goktepe	Late	Pivot	120-60-40-25+	12-May	25-Sep	115	136	Dual Magnum	Leverage 2.7	Bravo WS Quadris
										Sulfuric Acid		
3	Aberdeen Idaho (AB)	J. Stark, R. Novy, J. Whitworth, P. Bain M. Chappell	Late	Sprink.	260-0-0	1-May	26-Sep	127	148	Sencor DF Matrix	Admire	Quadris, Dithane
										Reglone		
4	Kimberly Idaho (KIM)	J. Stark, R. Novy, J. Whitworth, P. Bain M. Chappell	Late	Sprink.	340-208-52	3-May	19-Oct	131	169	Eptam Outlook Sencore	Success	Bravo, Rimon Dithane
										Mechanical		
5	Hermiston Oregon (HERM)	D. Hane, L. Leroux	Early	Pivot	200-80-200-40	24-Mar	31-Jul	115	129	Eptam, Matrix	Mocap, Admire Asana, Monitor	Ridomil Gold, Quadris Dithane, Bravo Omega
			Late	Pivot	265-80-200-40	6-Apr	18-Sep	152	165			
									EnQuik+Mech			
6	Klamath Falls Oregon (KLA)	B. Charlton	Late	Sprink.	195-120-90-148	19-May	4-Oct	115	138	Dual, Prowl Matrix	Monitor, Admire Vydate CL-V	Maxim, Quadris Dithane
										Reglone		
7	Malheur Oregon (MAL)	C. Shock, E. Eldredge	Late	Sprink.	184-202	28-Apr	5-Oct	143	160	Prowl+Dual Matrix	Guacho sd. trt.	Tops MZ sd. trt., Bravo, Ridomil Gold, Dithane Dithane, Topsin M, Sulfur
										Mechanical		
8	Springlake Texas (SPR)	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	263-28-28-20	29-Mar	10-Aug	121	134	Roundup, Dual Matrix, Sencor	Dimethoate Avaunt, Rimon Oberson 2SC	Tops MZ, Gaucho Penncozeb, Super Tin 80 Tenn-Cop 5E
										Mechanical		
9	Othello (OTH) Othello (OTH) Washington	Sunrise Farms M. Pavek, E. Driskill, R. Knowles	Early	Sprink.	223-60-300	3-Apr	7-Aug	119	126	Eptam Sencore Matrix Triflurex HFP Rely	Telone C-17 Platinum, Admire Telone II, Thimet Vydate, Oberon Leverage, Fulfill Monitor, Comite	Dithane, Bravo Penncozeb Platinum, Admire Amistar, Ultra Flourish Quadris Opti, Omega Ridomil Gold MZ Tanos, Manzate
			Late	Pivot	233-225-344	20-Apr	25-Sep	148	158			
									Mechanical			

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

TABLE 2: 2006 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	Stems/Hill				
1	Ranger Russet	Butte A6595-3	RP	Ck	Dual	E/L	-	OR	98	Long	4.6	Med Russet	3.8	Med-Large	3.7	Med-Late	3.6	1.9
2	Russet Burbank	Early Rose ?	W	Ck	Dual	E/L	-	OR	98	Long	4.3	Med Russet	3.5	Large	4.2	Medium	3.3	2.0
3	Russet Norkotah	ND9687-5Rus ND9526-4Rus	W	Ck	Dual	E/L	-	OR	97	Obl-Lng	3.9	Med Hvy Rus	4.4	Medium	2.6	Early	1.7	2.0
4	Shepody	Bake-King F58050	RP	Ck	Proc	E	-	OR	98	Obl-Lng	4.0	White	1.5	Med-Large	3.9	Medium	3.2	1.8
5	A95074-6	Agria Summit Russet	W	ID	Dual	E/L	3	OR	93	Obl-Lng	3.8	Light Russet	2.5	Large	4.2	Med-Late	3.8	1.8
6	A95109-1	Blazer Russet Summit Russet	W	ID	Dual	E/L	3	OR	95	Obl-Lng	4.0	Med Russet	3.6	Med-Large	3.5	Medium	3.3	1.9
7	A95409-1	A89146-8 Ranger Russet	RP	ID	Dual	E/L	2	OR	96	Obl-Lng	3.8	Light Russet	2.8	Large	4.1	Medium	3.2	1.6
8	A96104-2	A88236-4 A89512-3	RP	ID	Dual	E/L	2	OR	95	Obl-Lng	3.8	Med Hvy Rus	4.2	Med-Large	3.5	Medium	3.5	2.1
9	AC96052-1RU	A81386-1 GemStar Russet	P	CO	Dual	E/L	1	CO	97	Obl-Lng	3.6	Med Hvy Rus	4.5	Med-Large	3.9	Med-Late	3.8	2.1
10	AO96141-3	A89222-3 COA90064-6	W	OR	Dual	E/L	1	OR	96	Long	4.6	Med Russet	3.3	Med-Large	3.8	Medium	3.1	2.3
11	AO96160-3	A89384-10 A89512-3	RP	OR	Dual	E/L	3	OR	98	Obl-Lng	3.9	Med Russet	3.9	Med-Large	3.9	Med Early	2.8	1.9
12	AO96164-1	A89384-10 A91194-4	W	OR	Dual	E/L	2	OR	96	Long	4.3	Med Russet	3.7	Med-Large	3.6	Med Early	2.9	2.2
13	AOA95154-1	Bannock Russet A89152-4	MP	ID	Dual	E/L	2	OR	95	Obl-Lng	3.6	Med Russet	3.9	Large	4.2	Med-Late	3.9	2.2
14	AOA95155-7	Bannock Russet A89163-3LS	RP	ID	Dual	E/L	2	OR	95	Obl-Lng	3.7	Med Russet	3.6	Med-Large	3.2	Med-Late	3.9	1.8
15	AOTX95265-2ARu	A89216-9 A86102-6	W	TX	Dual	E/L	1	CO	97	Long	4.1	Med Hvy Rus	4.4	Med-Large	3.3	Med Early	2.6	2.4
16	AOTX95265-4Ru	A89216-9 A86102-6	W	TX	Dual	E/L	1	CO	97	Long	4.1	Med Hvy Rus	4.2	Med-Large	3.4	Med Early	2.7	2.4
17	CO94035-15RU	AO80432-1 Silverton Russet	W	CO	Dual	E/L	3	OR	94	Obl-Lng	3.6	Med Hvy Rus	4.1	Med-Large	4.0	Medium	3.2	2.0
18	CO95172-3RU	Russet Nugget AC88165-3	RP	CO	Fresh	E/L	2	OR	97	Obl-Lng	3.7	Med Russet	3.3	Med-Large	4.0	Med-Late	3.6	2.2
19	CO97137-1W	NDO2904-7 AC89047-1	W	CO	Fresh	E/L	1	CO	97	Long	4.6	White	1.5	Small	2.5	Early	1.9	2.9
20	MWTX2609-2Ru	Burbank OntarioX4xhybrid	W	TX	Fresh	E/L	2	OR	97	Obl-Lng	3.9	Light Russet	2.4	Med-Large	3.7	Med-Late	3.9	1.9
21	MWTX2609-4Ru	Burbank OntarioX4xhybrid	W	TX	Dual	E/L	1	CO	98	Long	4.2	Light Russet	2.7	Med-Large	3.9	Medium	3.2	2.1
22	TXA549-1Ru	ND9687-3Ru ND9852-1Ru	RP	TX	Dual	E/L	2	OR	96	Oblong	3.2	Med Russet	3.5	Med-Large	4.0	Medium	3.2	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: 2006 Western Regional Potato Variety Trial - TOTAL YIELD (CWT/A) - EARLY AND LATE HARVEST

No. Clone	Total Yield - Early Harvest (CWT/A)					Total Yield - Late Harvest (CWT/A)											
	OR	TX	WA	Entry		CA	CO	ID		OR	WA	Entry					
	HRM	SPR	OTH	Mean/Rank		TUL	SLV	AB	KIM	HRM	KLA	MAL	OTH	Mean/Rank			
1 RANGER R.	498	485	490	491	12	efghi	464	467	470	509	821	423	607	594	544	15	bcde
2 R. BURBANK	492	479	524	498	11	defghi	406	520	524	572	860	409	648	573	564	10	bcd
3 R. NORKOTAH	430	482	548	487	15	efghi	308	360	366	425	583	378	390	461	409	21	g
4 SHEPODY	511	449	506	489	14	efghi	.	449	.	.	.	.	.	.	-	.	.
5 A95074-6	491	354	410	419	21	ij	469	.	475	539	881	510	644	606	589	7	b
6 A95109-1	567	681	523	590	5	abc	459	464	460	549	905	419	571	667	562	11	bcd
7 A95409-1	470	608	548	542	8	bcdef	438	535	539	604	895	339	706	671	591	5	b
8 A96104-2	483	525	501	503	10	defgh	406	567	521	514	784	294	594	746	553	14	bcde
9 AC96052-1RU	338	416	447	400	22	j	368	419	291	453	772	407	596	544	481	19	f
10 AO96141-3	609	669	556	611	2	ab	448	452	532	627	1003	365	665	537	579	8	bc
11 AO96160-3	513	480	437	477	16	efghij	339	484	509	584	897	322	627	678	555	13	bcde
12 AO96164-1	639	533	557	577	6	abcd	462	494	514	617	1014	270	698	677	593	3	b
13 AOA95154-1	483	374	507	454	18	ghij	445	425	446	560	914	482	636	540	556	12	bcd
14 AOA95155-7	429	436	436	434	19	hij	458	430	377	526	900	448	716	702	569	9	bc
15 AOTX95265-2ARu	533	552	595	560	7	bcde	383	446	456	507	723	371	637	523	506	17	def
16 AOTX95265-4Ru	442	558	561	521	9	cdefg	409	461	356	634	746	358	654	540	520	16	cdef
17 CO94035-15RU	418	398	445	420	20	hij	333	420	335	431	784	354	618	670	493	18	ef
18 CO95172-3RU	507	550	417	491	12	efghi	440	479	426	606	905	443	803	619	590	6	b
19 CO97137-1W	429	436	549	471	17	fghij	280	349	317	409	628	416	469	455	415	20	g
20 MWTX2609-2Ru	569	644	573	596	4	abc	591	578	603	579	865	474	845	747	660	2	a
21 MWTX2609-4Ru	634	685	623	647	1	a	539	569	633	689	1022	425	874	870	703	1	a
22 TXA549-1Ru	572	621	608	600	3	abc	491	534	521	705	905	408	589	580	592	4	b
Location Means	503	519	516				425	471	461	554	848	396	647	619	554		

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

TABLE 4: 2006 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 %											
	OR	TX	WA	Entry		CA	CO	ID		OR		WA	Entry				
	HRM	SPR	OTH	Mean/Rank		TUL	SLV	AB	KIM	HRM	KLA	MAL	OTH	Mean/Rank			
1 RANGER R.	415	363	441	406	9	bcdefg	351	408	341	377	666	172	402	478	399	17	g
	83	75	90	83	3		76	87	73	74	81	41	66	80	72	19	
2 R. BURBANK	348	117	361	275	22	h	261	425	267	296	591	168	207	403	327	20	hi
	71	24	69	55	22		64	82	51	52	69	41	32	70	58	21	
3 R. NORKOTAH	351	366	478	398	11	bcdefg	219	325	282	351	481	279	338	356	329	19	hi
	82	76	87	82	6		71	90	77	83	83	74	87	77	80	9	
4 SHEPODY	453	221	434	369	15	defgh	.	372	.	.	.	.	.	.	.	.	.
	89	49	86	75	18		.	83	.	.	.	.	.	.	.	.	.
5 A95074-6	382	267	327	325	18	gh	347	.	263	449	666	445	513	448	447	12	defg
	78	75	80	78	10		74	.	55	83	76	87	80	74	75	17	
6 A95109-1	461	560	452	491	4	ab	420	431	388	508	796	329	516	616	501	4	abcd
	81	82	86	83	3		92	93	84	93	88	79	90	92	89	1	
7 A95409-1	421	531	523	492	3	ab	398	483	405	534	811	242	648	620	518	3	abc
	90	87	95	91	1		91	90	75	88	91	71	92	92	86	2	
8 A96104-2	379	397	423	400	10	bcdefg	344	491	409	441	603	218	485	635	453	10	cdefg
	78	76	84	79	9		85	87	79	86	77	74	82	85	82	6	
9 AC96052-1RU	268	296	365	309	21	gh	300	375	242	425	648	284	496	439	401	16	g
	79	71	82	77	13		81	90	83	94	84	70	83	81	83	4	
10 AO96141-3	561	351	481	464	6	abcd	376	395	418	352	805	311	301	415	422	13	efg
	92	53	86	77	13		84	87	79	56	80	85	45	77	74	18	
11 AO96160-3	411	343	356	370	14	defgh	290	417	444	524	776	205	553	557	471	9	bcdef
	80	72	81	78	10		85	86	87	90	87	64	88	82	84	3	
12 AO96164-1	552	329	475	452	7	abcde	392	429	336	476	833	155	619	573	477	6	bcde
	86	62	85	78	10		85	87	65	77	82	57	89	85	78	14	
13 AOA95154-1	312	247	414	324	19	gh	362	297	376	513	784	333	532	391	449	11	defg
	65	66	82	71	20		81	70	84	92	86	69	84	72	80	9	
14 AOA95155-7	332	282	347	320	20	gh	402	341	317	450	747	322	627	605	477	6	bcde
	77	65	80	74	19		88	79	84	86	83	72	88	86	83	4	
15 AOTX95265-2ARu	428	358	512	433	8	bcdef	294	414	313	378	568	245	486	428	391	18	gh
	80	65	86	77	13		77	93	69	75	79	66	76	82	77	16	
16 AOTX95265-4Ru	355	356	471	394	12	bcdefg	314	425	254	481	640	289	484	458	418	14	efg
	80	64	84	76	17		77	92	71	76	86	81	74	85	80	9	
17 CO94035-15RU	378	280	396	351	16	efgh	276	375	245	358	680	234	496	596	408	15	fg
	90	70	89	83	3		83	89	73	83	87	66	80	89	81	7	
18 CO95172-3RU	389	451	304	381	13	cdefgh	369	398	333	543	688	305	646	505	473	8	bcdef
	77	82	73	77	13		84	83	78	90	76	69	80	82	80	9	
19 CO97137-1W	272	320	395	329	17	fgh	174	283	199	286	404	257	362	292	282	21	i
	63	73	72	70	21		62	81	63	70	64	62	77	64	68	20	
20 MWTX2609-2Ru	452	493	504	483	5	abc	509	512	403	427	722	395	670	661	537	2	ab
	79	77	88	81	8		86	89	67	74	83	83	79	89	81	7	
21 MWTX2609-4Ru	541	517	572	543	1	a	482	517	480	438	827	228	706	773	556	1	a
	85	75	92	84	2		89	91	76	64	81	54	81	89	78	14	
22 TXA549-1Ru	447	529	510	495	2	ab	405	431	428	633	731	223	514	484	481	5	bcde
	78	85	84	82	6		83	81	82	90	81	55	87	83	80	9	
Location Means	405	362	434	400			347	407	340	440	689	269	505	511	439		
	80	69	84	78			81	86	74	80	81	68	78	82	79		

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

TABLE 5: 2006 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	OR	TX	WA	Entry		cdefg	CA	CO	ID		OR		WA	Entry		cde	
	HRM	SPR	OTH	Mean/Rank	Mean/Rank		TUL	SLV	AB	KIM	HRM	KLA	MAL	OTH	Mean/Rank		Mean/Rank
1 RANGER R.	171	153	116	147	9	cdefg	134	142	117	203	356	47	183	160	168	7	cde
	34	31	24	30	8		29	30	25	40	43	11	30	27	29	9	
2 R. BURBANK	24	29	60	38	19	h	64	103	93	118	183	31	44	51	86	19	gh
	5	6	12	7	20		16	20	18	21	21	8	7	9	15	20	
3 R. NORKOTAH	54	160	79	98	14	efgh	25	127	101	155	115	115	122	55	102	18	fg
	13	33	14	20	12		8	35	28	36	20	30	31	12	25	14	
4 SHEPODY	262	72	230	188	7	abcde	.	138	.	.	.	.	.	.	-	-
	51	16	46	38	4		.	31	.	.	.	.	.	.	-	-
5 A95074-6	165	82	60	102	11	defgh	112	.	111	234	358	100	108	84	158	9	cdef
	34	23	15	24	11		24	.	23	43	41	20	17	14	26	12	
6 A95109-1	233	326	113	224	5	abc	142	220	230	375	471	157	304	200	262	4	ab
	41	48	22	37	5		31	47	50	68	52	37	53	30	46	2	
7 A95409-1	269	334	207	270	1	a	207	288	234	321	522	85	401	295	294	2	a
	57	55	38	50	1		47	54	43	53	58	25	57	44	48	1	
8 A96104-2	74	105	52	77	15	fgh	209	127	203	164	228	63	174	172	168	7	cde
	15	20	10	15	15		51	22	39	32	29	21	29	0	28	10	
9 AC96052-1RU	57	48	16	40	18	h	65	102	75	102	113	85	93	34	84	20	gh
	17	12	4	11	18		18	24	26	23	15	21	16	6	19	19	
10 AO96141-3	301	109	70	160	8	bcdef	92	137	202	208	363	90	57	69	152	11	cdef
	49	16	13	26	10		21	30	38	33	36	25	9	13	26	12	
11 AO96160-3	98	51	22	57	17	gh	58	100	164	242	216	24	117	88	126	16	efg
	19	11	5	12	17		17	21	32	41	24	7	19	13	22	16	
12 AO96164-1	385	142	212	246	2	ab	118	157	189	235	433	51	218	220	202	5	bc
	60	27	38	42	2		25	32	37	38	43	19	31	32	32	5	
13 AOA95154-1	6	36	35	26	22	h	109	23	147	188	139	168	68	24	108	17	efg
	1	10	7	6	22		25	6	33	34	15	35	11	4	20	18	
14 AOA95155-7	37	65	11	38	19	h	157	48	135	197	160	133	108	141	135	14	defg
	9	15	3	9	19		34	11	36	37	18	30	15	20	25	14	
15 AOTX95265-2ARu	89	120	97	102	11	defgh	106	210	126	165	135	72	239	77	141	13	defg
	17	22	16	18	14		28	47	28	33	19	19	38	15	28	10	
16 AOTX95265-4Ru	82	133	83	99	13	defgh	133	218	93	203	202	89	231	96	158	9	cdef
	19	24	15	19	13		33	47	26	32	27	25	35	18	30	7	
17 CO94035-15RU	161	64	116	114	10	defgh	115	106	113	225	289	55	140	150	149	12	cdef
	39	16	26	27	9		35	25	34	52	37	16	23	22	30	7	
18 CO95172-3RU	72	107	20	66	16	fgh	109	106	142	166	171	89	137	92	127	15	efg
	14	19	5	13	16		25	22	33	27	19	20	17	15	22	16	
19 CO97137-1W	14	66	19	33	21	h	5	66	7	34	58	89	58	13	41	21	h
	3	15	3	7	20		2	19	2	8	9	21	12	3	10	21	
20 MWTX2609-2Ru	256	281	198	245	3	ab	341	238	258	236	344	193	353	336	287	3	a
	45	44	35	41	3		58	41	43	41	40	41	42	45	44	3	
21 MWTX2609-4Ru	193	335	183	237	4	abc	229	257	307	257	489	69	340	422	296	1	a
	30	49	29	36	6		42	45	48	37	48	16	39	49	41	4	
22 TXA549-1Ru	200	242	141	194	6	abcd	175	111	211	398	241	27	253	120	192	6	cd
	35	39	23	32	7		36	21	40	56	27	7	43	21	31	6	
Location Means	146	139	97	127			129	144	155	211	266	87	178	138	164		
	28	25	18	24			29	30	32	37	30	22	27	20	28		

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

TABLE 6: 2006 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 %											
	OR	TX	WA	Entry		CA	CO	ID		OR			WA	Entry			
	HRM	SPR	OTH	Mean/Rank		TUL	SLV	AB	KIM	HRM	KLA	MAL	OTH	Mean/Rank			
1 RANGER R.	45	33	36	38	18	hijk	27	28	30	18	47	26	30	39	31	18	hijk
	9	7	7	8	15		6	6	6	4	6	6	5	7	6	15	
2 R. BURBANK	116	41	64	74	8	abcdefg	39	81	38	23	108	45	58	82	59	4	bcd
	24	9	12	15	8		10	16	7	4	13	11	9	14	10	6	
3 R. NORKOTAH	75	48	61	61	11	cdefgh	68	24	29	15	77	19	28	81	43	12	defghi
	17	10	11	13	10		22	7	8	4	13	5	7	17	10	6	
4 SHEPODY	21	36	15	24	21	jk	.	59	.	.	.	.	.	.	-	-
	4	8	3	5	20		.	13	.	.	.	.	.	.	-	-
5 A95074-6	55	59	60	58	13	efghij	28	.	47	15	85	22	79	64	49	9	defg
	11	17	15	14	9		6	.	10	3	10	4	12	11	8	11	
6 A95109-1	35	38	43	39	16	ghijk	19	14	18	7	30	25	11	33	20	21	k
	6	6	8	7	17		4	3	4	1	3	6	2	5	4	20	
7 A95409-1	20	23	21	21	22	k	24	18	17	10	32	32	16	33	23	20	jk
	4	4	4	4	21		5	3	3	2	4	9	2	5	4	20	
8 A96104-2	83	91	67	80	7	abcdef	19	64	39	26	106	32	42	69	50	8	defg
	17	17	13	16	7		5	11	7	5	14	11	7	9	9	8	
9 AC96052-1RU	68	107	81	86	5	abcde	46	40	37	13	109	20	78	98	55	6	bcde
	20	26	18	21	3		12	9	13	3	14	5	13	18	11	3	
10 AO96141-3	28	74	43	48	15	fghijk	35	44	21	19	50	29	51	63	39	13	efghij
	5	11	8	8	15		8	10	4	3	5	8	8	12	7	13	
11 AO96160-3	94	118	76	96	3	abc	29	58	38	14	104	60	53	107	58	5	bcd
	18	25	17	20	4		9	12	7	2	12	19	8	16	11	3	
12 AO96164-1	24	23	29	25	20	ijk	36	37	22	14	66	27	34	54	36	16	fghijk
	4	4	5	4	21		8	7	4	2	7	10	5	8	6	15	
13 AOA95154-1	163	87	69	106	1	a	44	113	43	18	104	20	70	137	69	2	ab
	34	23	14	24	1		10	27	10	3	11	4	11	25	13	2	
14 AOA95155-7	84	87	84	85	6	abcde	28	77	27	6	97	18	51	65	46	11	defghi
	20	20	19	20	4		6	18	7	1	11	4	7	9	8	11	
15 AOTX95265-2ARu	89	49	65	68	9	bcdefgh	38	19	45	29	118	20	31	80	47	10	defgh
	17	9	11	12	11		10	4	10	6	16	5	5	15	9	8	
16 AOTX95265-4Ru	77	42	62	60	12	defghi	30	18	29	23	75	31	30	65	38	14	fghij
	17	7	11	12	11		7	4	8	4	10	9	5	12	7	13	
17 CO94035-15RU	30	79	44	51	14	efghijk	17	36	15	5	49	17	40	60	30	19	ijk
	7	20	10	12	11		5	9	4	1	6	5	6	9	6	15	
18 CO95172-3RU	105	66	111	94	4	abcd	41	73	45	24	167	33	54	98	67	3	abc
	21	12	27	20	4		9	15	11	4	18	7	7	16	11	3	
19 CO97137-1W	140	52	114	102	2	ab	76	53	94	51	154	36	62	138	83	1	a
	33	12	21	22	2		27	15	30	12	25	9	13	30	20	1	
20 MWTX2609-2Ru	42	26	30	33	19	hijk	15	24	33	12	85	27	26	48	34	17	ghijk
	7	4	5	6	18		2	4	5	2	10	6	3	6	5	18	
21 MWTX2609-4Ru	64	22	32	39	16	ghijk	25	30	41	14	77	41	37	33	37	15	fghij
	10	3	5	6	18		5	5	6	2	8	10	4	4	5	18	
22 TXA549-1Ru	77	45	66	63	10	cdefgh	38	81	38	18	90	51	23	71	51	7	cdef
	13	7	11	11	14		8	15	7	3	10	13	4	12	9	8	
Location Means	70	57	58	61			34	47	36	18	87	30	43	72	46		
	14	12	12	13			9	10	8	3	11	8	7	12	9		

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

TABLE 7: 2006 Western Regional Potato Variety Trial - SPECIFIC GRAVITY - EARLY AND LATE HARVEST

No. Clone	Specific Gravity - Early Harvest					Specific Gravity - Late Harvest											
	OR HRM	TX SPR	WA OTH	Entry Mean/Rank		CA TUL	CO SLV	ID		OR		WA OTH	Entry Mean/Rank				
								AB	KIM	HRM	KLA	MAL					
1 RANGER R.	1.072	1.071	1.079	1.074	5	abcd	1.096	1.093	1.093	1.090	1.080	1.089	1.093	1.095	1.091	1	a
2 R. BURBANK	1.070	1.070	1.081	1.074	5	abcd	1.087	1.091	1.078	1.087	1.073	1.085	1.070	1.081	1.081	14	de
3 R. NORKOTAH	1.062	1.063	1.074	1.066	20	fg	1.075	1.082	1.074	1.078	1.065	1.069	1.070	1.072	1.073	21	g
4 SHEPODY	1.067	1.069	1.074	1.070	14	defg	.	1.085	.	.	.	.	.	.	-
5 A95074-6	1.070	1.068	1.082	1.074	5	abcd	1.090	.	1.085	1.092	1.079	1.086	1.088	1.094	1.088	3	abc
6 A95109-1	1.064	1.069	1.074	1.069	17	defg	1.085	1.084	1.076	1.080	1.070	1.090	1.083	1.080	1.081	14	de
7 A95409-1	1.067	1.073	1.082	1.074	5	abcd	1.096	1.095	1.090	1.092	1.074	1.076	1.092	1.090	1.088	3	abc
8 A96104-2	1.062	1.060	1.074	1.065	22	g	1.081	1.088	1.076	1.085	1.068	1.085	1.079	1.087	1.081	14	de
9 AC96052-1RU	1.066	1.066	1.078	1.070	14	defg	1.087	1.091	1.082	1.081	1.073	1.083	1.083	1.093	1.084	8	bcd
10 AO96141-3	1.074	1.074	1.088	1.079	2	ab	1.083	1.101	1.089	1.086	1.083	1.081	1.092	1.090	1.088	3	abc
11 AO96160-3	1.075	1.080	1.084	1.080	1	a	1.088	1.095	1.084	1.091	1.082	1.086	1.094	1.090	1.089	2	ab
12 AO96164-1	1.069	1.071	1.076	1.072	10	cdef	1.085	1.080	1.075	1.091	1.075	1.083	1.094	1.085	1.083	9	d
13 AOA95154-1	1.079	1.076	1.078	1.078	3	abc	1.089	1.091	1.086	1.090	1.081	1.075	1.093	1.102	1.088	3	abc
14 AOA95155-7	1.064	1.070	1.076	1.070	14	defg	1.086	1.089	1.076	1.084	1.076	1.073	1.087	1.085	1.082	10	de
15 AOTX95265-2ARu	1.066	1.070	1.077	1.071	11	defg	1.075	1.086	1.075	1.080	1.065	1.086	1.071	1.070	1.076	19	fg
16 AOTX95265-4Ru	1.063	1.072	1.077	1.071	11	defg	1.075	1.083	1.074	1.080	1.062	1.087	1.071	1.074	1.076	19	fg
17 CO94035-15RU	1.063	1.061	1.076	1.066	20	fg	1.086	1.081	1.069	1.078	1.069	1.074	1.080	1.085	1.078	18	ef
18 CO95172-3RU	1.071	1.069	1.080	1.073	9	bcde	1.086	1.090	1.082	1.086	1.076	1.083	1.086	1.089	1.085	7	bcd
19 CO97137-1W	1.067	1.076	1.081	1.075	4	abcd	1.086	1.084	1.083	1.086	1.069	1.086	1.084	1.076	1.082	10	de
20 MWTX2609-2Ru	1.064	1.067	1.072	1.068	18	efg	1.085	1.083	1.080	1.084	1.071	1.084	1.085	1.086	1.082	10	de
21 MWTX2609-4Ru	1.069	1.070	1.075	1.071	11	defg	1.084	1.085	1.082	1.087	1.069	1.078	1.086	1.086	1.082	10	de
22 TXA549-1Ru	1.048	1.074	1.078	1.067	19	fg	1.080	1.093	1.082	1.085	1.066	1.079	1.082	1.079	1.081	14	de
Location Means	1.067	1.070	1.078	1.072			1.085	1.088	1.081	1.085	1.073	1.082	1.084	1.085	1.082		

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

TABLE 8: 2006 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>											Length/Width			
	Early Trial					Late Trial						Early Trial				Late Trial							Late Trial			
	OR	TX	WA	Mean		CA	ID	OR	WA	Mean		OR	TX	WA	Mean	CA	CO	ID	OR	WA	Mean		State Means ¹			
HRM	SPR	OTH			TUL	AB	KIM	HRM	OTH		HRM	SPR	OTH		TUL	SLV	AB	KIM	HRM	KLA	MAL	OTH		ID	OR	WA
1 RANGER R.	7.5	7.4	7.4	7.4	8.9	8.5	9.9	9.9	8.6	9.2	5.0	4.7	4.0	4.6	4.3	5.0	5.0	5.0	4.9	4.4	4.3	4.3	4.6	2.1	1.9	1.8
2 R. BURBANK	4.6	6.4	6.5	5.8	7.6	8.9	9.2	7.1	6.0	7.8	4.9	4.5	3.0	4.1	5.0	5.0	4.3	4.5	4.5	3.4	4.0	4.0	4.3	2.0	1.8	1.9
3 R. NORKOTAH	5.5	7.2	6.6	6.4	5.3	7.8	9.3	7.0	6.0	7.1	4.6	4.7	3.0	4.1	4.5	5.0	4.3	4.0	1.8	3.7	3.5	4.0	3.9	1.8	1.9	-
4 SHEPODY	9.3	6.9	10.3	8.8	.	.	.	.	.	-	4.5	3.5	3.0	3.7	.	5.0	.	.	.	.	.	.	-	-	-	-
5 A95074-6	7.1	5.5	6.1	6.2	8.3	8.1	9.9	8.6	6.6	8.3	4.8	4.2	3.0	4.0	4.0	.	4.0	3.5	4.2	3.9	3.5	2.5	3.7	1.7	1.7	1.8
6 A95109-1	8.3	9.0	7.7	8.3	8.8	11.0	13.0	10.7	8.2	10.3	4.5	4.6	3.3	4.1	4.0	5.0	4.0	4.0	4.3	3.8	3.3	3.3	4.0	1.8	1.8	1.7
7 A95409-1	9.3	10.2	9.1	9.5	8.4	10.5	11.6	11.9	9.3	10.3	3.9	4.7	2.8	3.8	4.0	5.0	4.5	3.3	3.6	3.8	3.3	3.0	3.8	1.9	1.7	1.6
8 A96104-2	5.6	5.6	6.1	5.8	10.0	8.7	8.5	7.0	7.1	8.3	4.5	3.8	3.0	3.8	4.3	5.0	4.3	3.8	3.5	3.7	3.0	3.0	3.8	1.8	1.7	1.6
9 AC96052-1RU	5.2	5.0	5.3	5.1	6.6	7.4	8.3	6.3	5.3	6.8	4.1	4.5	3.0	3.9	4.0	4.0	3.5	2.8	3.6	4.2	2.8	3.0	3.5	1.7	1.7	1.6
10 AO96141-3	8.8	6.1	7.0	7.3	7.6	9.6	10.9	9.2	6.5	8.8	5.0	4.7	4.3	4.7	5.0	5.0	5.0	4.5	4.6	3.6	3.5	5.0	4.5	2.1	1.9	2.4
11 AO96160-3	5.7	5.4	5.5	5.5	7.2	8.3	10.1	7.2	5.9	7.7	4.9	3.6	3.0	3.8	4.3	5.0	4.0	3.8	5.0	3.5	3.0	3.0	4.0	1.9	1.8	1.7
12 AO96164-1	10.0	8.0	9.0	9.0	7.7	10.0	10.0	9.5	7.7	9.0	5.0	4.7	4.3	4.7	4.3	5.0	5.0	5.0	4.2	3.5	3.0	3.0	4.1	2.0	1.8	1.7
13 AOA95154-1	4.3	4.9	5.7	5.0	7.5	7.7	8.6	6.6	4.9	7.1	3.3	4.0	3.0	3.4	4.3	4.0	4.0	3.8	4.1	3.8	2.8	3.0	3.7	1.7	1.6	1.5
14 AOA95155-7	5.3	5.4	5.1	5.3	8.6	8.6	10.2	6.8	7.0	8.2	4.7	4.0	3.0	3.9	4.0	4.0	3.8	3.0	4.5	3.6	3.0	3.0	3.6	1.8	1.7	1.6
15 AOTX95265-2ARu	5.7	7.0	6.6	6.4	7.7	8.0	7.8	6.5	5.9	7.2	5.0	4.7	3.0	4.2	4.0	5.0	4.3	4.0	4.7	3.5	3.0	4.0	4.1	1.8	1.8	1.8
16 AOTX95265-4Ru	5.7	7.7	6.5	6.6	8.3	7.9	9.6	7.3	6.4	7.9	4.9	4.5	3.0	4.1	4.3	4.0	4.3	4.0	4.7	4.1	3.5	3.5	4.1	1.9	1.9	1.7
17 CO94035-15RU	7.5	5.2	7.3	6.7	9.0	9.4	11.2	9.0	7.1	9.1	3.5	4.6	2.3	3.4	4.0	5.0	4.0	3.3	3.4	4.5	2.8	2.8	3.7	1.8	1.5	1.6
18 CO95172-3RU	5.5	6.1	4.7	5.5	7.3	7.9	8.5	6.4	6.0	7.2	4.5	4.1	3.0	3.9	4.3	5.0	3.8	3.3	3.7	3.4	3.0	3.0	3.7	1.7	1.6	-
19 CO97137-1W	4.3	5.6	5.1	5.0	4.7	4.6	5.6	5.3	4.5	4.9	5.0	4.7	3.8	4.5	5.0	5.0	5.0	5.0	5.0	3.6	4.0	5.0	4.7	2.2	2.1	-
20 MWTX2609-2Ru	8.4	9.8	8.9	9.0	11.9	10.9	10.4	8.0	9.0	10.0	4.5	4.7	4.0	4.4	4.0	4.0	4.5	4.3	4.1	3.3	3.0	3.0	3.8	1.8	1.7	-
21 MWTX2609-4Ru	6.6	9.6	8.4	8.2	9.9	10.8	11.0	9.6	10.0	10.3	4.9	4.7	3.3	4.3	4.0	4.0	5.0	5.0	4.5	3.6	4.0	3.5	4.2	1.9	1.8	1.7
22 TXA549-1Ru	6.7	8.0	6.9	7.2	8.2	8.7	11.8	7.6	6.5	8.6	3.6	3.6	2.0	3.1	3.8	4.0	3.0	3.0	3.6	3.4	3.0	2.5	3.3	1.5	1.6	1.6
Location Means	6.7	6.9	6.9	6.8	8.1	8.7	9.8	8.0	6.9	8.3	4.5	4.3	3.2	4.0	4.3	4.7	4.3	3.9	4.1	3.7	3.3	3.4	4.0	1.9	1.8	1.7

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

TABLE 9: 2006 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.	4.9	4.2	5.0	4.3	5.0	5.0	2.6	5.0	4.6
2 R. BURBANK	4.3 OTH 3.0	3.7 ^{KIM 3.0} OTH 3.0	3.8 OTH 2.5	3.5 AB 2.8	5.0	4.5	2.2	5.0	4.8
3 R. NORKOTAH	4.9	4.9	5.0	4.7	5.0	4.9	2.8	5.0	4.9
4 SHEPODY	4.9	-	4.8	-	5.0	-	-	4.5	-
5 A95074-6	4.9	4.6	5.0	4.2	5.0	4.7	2.9	4.9	4.6
6 A95109-1	4.3	4.6	4.9	4.7	4.4	4.2 OTH 2.0	2.4	5.0	4.9
7 A95409-1	4.8	4.4	5.0	4.5	5.0	4.4	2.6	5.0	4.6
8 A96104-2	4.9	4.4	5.0	4.5	5.0	4.1 OTH 2.0	2.4	4.9	5.0
9 AC96052-1RU	5.0	4.7	5.0	4.9	4.0 OTH 3.0	3.7 OTH 2.0	2.4	4.9	5.0
10 AO96141-3	5.0	4.6	5.0	4.7	5.0	5.0	3.2	5.0	4.9
11 AO96160-3	5.0	4.9	5.0	4.7	5.0	4.2 OTH 2.0	2.7	5.0	4.8
12 AO96164-1	4.3	4.6	5.0	4.5	5.0	4.2 OTH 2.0	2.3	5.0	4.8
13 AOA95154-1	4.9	4.7	5.0	5.0	5.0	4.6	2.9	5.0	5.0
14 AOA95155-7	4.9	4.8	5.0	4.6	5.0	4.3 OTH 2.0	2.4	5.0	4.9
15 AOTX95265-2ARu	4.9	4.8	4.9	4.6	5.0	4.9	3.1	5.0	4.6
16 AOTX95265-4Ru	4.9	5.0	4.9	4.5	5.0	5.0	2.8	5.0	4.7
17 CO94035-15RU	5.0	4.7	4.9	4.7	4.7	3.7 OTH 2.0	2.8	5.0	4.8
18 CO95172-3RU	5.0	4.7	4.9	4.6	4.1 OTH 3.0	4.0 OTH 1.0	2.5	5.0	4.7
19 CO97137-1W	4.9	5.0	4.3	4.8	5.0	3.9 OTH 1.0	2.4	4.8	4.1 ^{AB 2.8} OTH 2.5
20 MWTX2609-2Ru	4.7	4.6	4.5	4.2	5.0	4.3	2.6	5.0	4.7
21 MWTX2609-4Ru	5.0	4.7	5.0	4.2	5.0	4.7	2.7	5.0	4.7
22 TXA549-1Ru	4.5	4.5 KLM 3.1	4.8	4.7	4.8	3.8 OTH 2.0	2.7	5.0	4.1
Entry Means	4.8	4.6	4.8	4.5	4.9	4.4	2.6	5.0	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: 2006 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)]			% Bruise
	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	ID ²	OTH-L ³
1 RANGER R.	0	0	0	1	7 HRM 13	2	4.7	2.5 HRM 2.0	2.3	62
2 R. BURBANK	8 OTH 15	9 OTH 40 AB 36	0	4	0	0	4.3	3.8	2.4	35
3 R. NORKOTAH	0	8 TUL35	0	0	0	1	5.0	4.1	2.0	.
4 SHEPODY	0	-	0	-	5	-	5.0	-	-	.
5 A95074-6	3	14 AB 45 KIM 26 TUL 23	0	0	0	1	5.0	4.5	3.1	31
6 A95109-1	3	4	0	2	4	1	4.3	4.1	3.0	42
7 A95409-1	0	3	0	1	1	1	4.2 HRM 3.0	3.3 HRM 2.0	2.8	40
8 A96104-2	0	20 AB 73 KLA 32 TUL33	0	1	1	1	4.7	4.7	3.0	42
9 AC96052-1RU	0	12 AB 58 TUL 35	3 SPR 10	4	3	1	4.5	3.7	2.9	42
10 AO96141-3	0	8 AB 35	0	2	9 HRM 15	4 HRM 16	5.0	4.3	3.4	14
11 AO96160-3	0	5 AB 33	0	1	6	2	5.0	4.3	2.9	31
12 AO96164-1	0	4	0	0	8 HRM 16	2	5.0	4.0	2.7	21
13 AOA95154-1	0	12 AB 43 KLA 28	0	8 HRM 37	0	2	4.7	4.6	3.0	34
14 AOA95155-7	0	8 AB 38	0	2	0	0	4.8	5.0	4.2	6
15 AOTX95265-2ARu	0	15 TUL 45 AB 77	0	1	4	1	4.7	4.3	2.2	17
16 AOTX95265-4Ru	0	8 AB 45 TUL 45	0	1	4	1	4.7	4.7	2.1	17
17 CO94035-15RU	1	14 AB 73 TUL 23	0	1	0	1	5.0	4.6	3.0	44
18 CO95172-3RU	2	2	1	4 HERM 12	3	2	4.5	4.7	2.6	.
19 CO97137-1W	0	2	1	2	3	4 HRM 13	4.5	4.2	2.9	.
20 MWTX2609-2Ru	1	15 AB 25 KLA 70	0	1	1	0	4.3 HRM 3.0	3.6	3.0	.
21 MWTX2609-4Ru	1	5 AB 33	0	1	2	1	4.3	3.6	2.6	43
22 TXA549-1Ru	1	12 AB 55	2	3 HRM 13	2	1	4.2 HRM 3.0	3.8	2.0	74
Entry Means	1	8	0	2	3	1	4.7	4.1	2.7	35

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: 2006 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	OTH		SLV	AB	KIM	HRM	MAL	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	0.0	0.0	0.3	3.0	1.4	0.9	1.1	0.1	1.0	1.3	2.2	3.0	2.0	2.6	13	6	0	5	0	5
2 R. BURBANK	1.0	0.5	1.0	0.8	1.0	1.8	1.1	1.5	1.0	2.0	1.4	3.6	3.3	3.0	3.5	4	4	3	25	15	10
3 R. NORKOTAH	1.0	0.0	.	0.5	2.0	2.4	1.5	1.5	1.5	.	1.8	3.7	4.0	.	3.9	8	0	0	8	5	4
4 SHEPODY	1.0	0.0	.	0.5	3.0	.	.	.	.	.	-	.	.	.	-	.	.	0	.	.	.
5 A95074-6	.	0.0	0.0	0.0	.	1.9	0.8	0.4	0.1	0.0	0.6	3.2	3.3	1.0	3.3	2	0	0	3	0	1
6 A95109-1	2.0	1.0	0.0	1.0	1.0	1.4	2.3	1.5	0.5	2.0	1.5	3.5	3.5	2.0	3.5	3	13	8	8	0	6
7 A95409-1	1.0	0.2	0.0	0.4	2.0	1.5	1.0	1.7	0.5	2.0	1.5	2.8	3.1	2.0	3.0	2	2	0	25	0	6
8 A96104-2	1.0	0.0	0.0	0.3	2.0	1.1	0.9	1.0	0.1	1.0	1.0	3.7	3.5	2.0	3.6	0	0	0	8	0	2
9 AC96052-1RU	0.0	0.0	0.0	0.0	1.0	0.6	0.9	0.6	0.1	0.0	0.5	2.7	3.4	1.0	3.1	10	0	0	15	0	5
10 AO96141-3	1.0	0.0	1.0	0.7	1.0	0.8	1.1	0.6	0.0	2.0	0.9	1.7	2.3	2.0	2.0	5	0	0	3	0	2
11 AO96160-3	1.0	0.0	0.0	0.3	1.0	1.8	0.7	0.7	0.0	1.0	0.9	2.7	2.4	0.0	2.6	2	0	0	5	0	1
12 AO96164-1	1.0	0.1	0.0	0.4	1.0	1.9	0.9	0.7	0.0	0.0	0.8	2.3	1.3	0.0	1.8	6	0	0	3	0	2
13 AOA95154-1	0.0	0.0	0.0	0.0	1.0	0.8	0.6	0.8	0.0	0.0	0.5	2.6	1.4	1.0	2.0	0	0	0	13	0	3
14 AOA95155-7	0.0	0.0	0.0	0.0	0.0	0.9	0.6	1.1	0.0	0.0	0.4	2.7	2.5	1.0	2.6	4	0	0	28	0	6
15 AOTX95265-2ARi	2.0	0.3	1.0	1.1	3.0	2.4	1.9	1.6	1.5	2.0	2.1	3.2	3.5	4.0	3.4	13	2	0	28	13	11
16 AOTX95265-4Ru	2.0	0.3	1.0	1.1	2.0	2.4	1.7	1.8	1.5	2.0	1.9	3.6	4.0	3.0	3.8	2	0	0	35	5	8
17 CO94035-15RU	1.0	0.0	0.0	0.3	1.0	1.6	0.9	1.4	0.1	2.0	1.2	3.1	3.4	2.0	3.3	2	0	0	30	0	6
18 CO95172-3RU	2.0	0.8	.	1.4	1.0	2.1	1.0	1.9	1.0	.	1.4	3.7	3.5	.	3.6	0	0	0	25	0	5
19 CO97137-1W	2.0	0.5	.	1.3	3.0	2.5	1.7	1.4	1.5	.	2.0	3.0	3.1	.	3.1	9	4	0	13	8	7
20 MWTX2609-2Ru	2.0	0.4	0.0	0.8	4.0	3.1	1.8	2.2	1.5	0.0	2.1	3.9	3.8	0.0	3.9	2	4	0	23	3	6
21 MWTX2609-4Ru	3.0	0.6	1.0	1.5	4.0	3.3	2.5	2.2	1.5	3.0	2.8	3.9	3.6	3.0	3.8	2	4	0	38	3	9
22 TXA549-1Ru	1.0	0.6	0.0	0.5	1.0	1.6	0.7	1.6	0.5	1.0	1.1	2.9	2.5	2.0	2.7	2	0	0	35	3	8
Location Means	1.2	0.2	0.3	0.6	1.8	1.8	1.2	1.3	0.6	1.2	1.3	3.1	3.1	1.7	3.1	4	2	1	18	3	5

Storage protocol prior to frying

Aberdeen - 4 weeks from 55F to 45F, 5 weeks from 55F to 40F, and 7 weeks @ 40F and 45F.

Hermiston - 4 weeks from 60F to 45F, and 4 weeks @ 45F.

Kimberly - 4 weeks from 55F to 45F, 5 weeks from 55F to 40F, and 7 weeks @ 40F and 45F.

Malheur (Late) - 2 weeks from 70F to 45F, and 6 weeks @ 45F.

Othello - 2 weeks from 48F to 40F and 45 F, and 8 weeks @ 40F and 45F.

San Luis Valley - 3 weeks from 55F to 45F, and 9 weeks @ 45F.

* Comprehensive post harvest evaluations of entries can be found in the 2006 Potato Cultivar Yield & Post Harvest Quality Evaluations - Washington State University. Contact: Rick Knowles. www.potatoes.wsu.edu

TABLE 12: 2006 Western Regional Potato Variety Trial - DISEASE EVALUATION AND METRIBUZIN REACTION

No.	Clone	Vert. Wilt/ Early Dying		Early Blight ¹	Late Blight Corvallis ³		Common Scab AB ¹ % Serious Defect	% Net Necrosis		% Virus Infection		Prosser		Fusarium		Erwinia Soft Rot ¹ (0-5)	Metribuzin Reaction ⁵ AB
		AB ¹ (0-9)	HRM ² (0-9)		Foliar (1-9)	Tuber %		AB ¹ Serious Def.	HRM ²	PVY HRM ²	PLRV HRM ²	% Corky Rngspt ⁴	Root- knot ⁴	F(sam) Dry Rot (0-5)	F(sol) Dry Rot (0-5)		
1	RANGER R.	4.0	7.7	2.7	8.5	30	35	2	20	100	69	50	S	2.4	4.4	2.6	R
2	R. BURBANK	6.0	8.3	3.3	8.0	15	4	1	18	87	80	55	S	4.7	3.6	4.2	R
3	R. NORKOTAH	8.2	9.0	-	9.0	45	8	17	-	-	-	23	S	1.6	3.1	3.9	R
4	SHEPODY	5.2	-	5.2	8.8	33	45	25	-	-	-	13	S	2.5	2.6	2.3	VS
5	A95074-6	2.8	7.3	2.3	7.5	10	3	-	13	71	88	13	S	2.3	2.5	3.5	R
6	A95109-1	6.7	8.2	2.3	8.3	18	2	0	18	92	25	10	S	2.1	1.5	3.5	R
7	A95409-1	4.1	7.5	3.8	8.5	38	0	12	8	90	65	28	S	3.4	4.5	3.0	R
8	A96104-2	2.5	7.8	3.2	8.3	43	0	4	3	94	38	43	S	3.3	2.0	2.5	R
9	AC96052-1RU	3.8	7.3	2.5	8.3	20	10	-	0	100	50	0	S	4.6	4.0	3.1	MR
10	AO96141-3	3.8	7.3	3.2	6.8	20	19	5	18	20	13	30	S	4.3	1.7	1.9	R
11	AO96160-3	5.3	8.0	3.7	8.0	18	12	4	28	100	30	20	S	3.8	1.6	2.9	S
12	AO96164-1	4.8	9.0	4.1	8.0	5	4	14	13	68	37	25	S	4.7	4.5	3.2	R
13	AOA95154-1	1.5	6.5	2.3	8.3	10	0	5	33	45	35	23	S	4.6	2.6	4.2	R
14	AOA95155-7	2.8	6.5	2.2	8.3	15	18	13	10	50	15	0	S	4.0	2.8	3.7	R
15	AOTX95265-2ARu	7.3	7.7	3.7	9.0	30	3	-	10	100	22	28	S	2.2	2.3	3.7	R
16	AOTX95265-4Ru	7.8	8.3	4.5	8.5	28	21	-	8	100	85	13	S	1.9	2.3	2.9	R
17	CO94035-15RU	1.3	7.5	2.7	7.0	18	12	27	5	93	43	13	S	3.8	3.5	2.3	R
18	CO95172-3RU	3.0	7.8	3.3	8.0	49	10	2	10	88	69	13	S	4.4	3.6	2.7	R
19	CO97137-1W	-	8.0	-	9.0	39	-	-	18	95	32	15	S	-	-	-	MR
20	MWTX2609-2Ru	4.3	8.0	3.2	7.8	5	39	0	23	100	42	28	S	4.3	2.1	2.5	R
21	MWTX2609-4Ru	3.7	8.3	2.8	7.5	10	23	-	30	95	29	55	S	3.9	1.7	2.5	R
22	TXA549-1Ru	5.3	9.0	3.3	9.0	18	24	3	50	100	94	8	S	1.5	2.8	3.9	R
Entry Means		4.5	7.9	3.2	8.2	23	14	8	17	84	48	23		3.3	2.8	3.1	
LSD (.05)		2.2	1.8	2.3	0.7	26		15						1.0	1.2	1.7	

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

% Net Necrosis is percent of tubers with vascular discoloration extending to a depth of .75" or greater.

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

³ Evaluations made at Corvallis, Oregon by Solomon Yilma; scale as indicated with highest number being most severe. % based on 10 random tubers.

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

⁵ Evaluations made at Aberdeen, Idaho by Steve Love: R=resistant, MR=moderately resistant, MS, S=suceptible, VS=very susceptible.

**TABLE 13: 2006 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	23.3	0.17	0.18	5.1	35.4	2.0
2 RUSSET BURBANK	20.4	0.19	0.15	4.6	21.1	3.5
3 RUSSET NORKOTAH	19.4	0.22	0.13	5.2	24.3	2.2
5 A95074-6	20.9	0.11	0.14	5.9	23.0	4.3
6 A95109-1	19.7	0.12	0.16	6.8	22.7	0.9
7 A95409-1	23.0	0.14	0.22	5.7	23.6	1.8
8 A96104-2	20.3	0.16	0.16	5.6	21.6	9.9
9 AC96052-1RU	22.0	0.04	0.18	6.7	22.9	0.4
10 AO96141-3	22.4	0.10	0.24	5.6	25.5	2.6
11 AO96160-3	22.2	0.14	0.16	6.0	21.3	3.8
12 AO96164-1	20.2	0.24	0.12	5.4	29.5	2.6
13 AOA95154-1	23.2	0.08	0.18	6.0	21.4	1.4
14 AOA95155-7	20.0	0.08	0.19	6.9	18.6	1.4
15 AOTX9565-2ARU	19.9	0.22	0.17	5.3	23.8	4.4
16 AOTX9565-4RU	18.9	0.22	0.16	5.6	21.2	2.2
17 CO94035-15RU	21.0	0.10	0.23	5.5	22.6	0.6
18 CO95172-3RU	21.3	0.15	0.18	5.8	27.2	2.4
19 CO97137-1W	20.5	0.20	0.26	5.0	26.9	18.0
20 MWTX2609-2RU	19.9	0.23	0.17	5.0	21.4	1.8
21 MWTX2609-4RU	20.2	0.24	0.15	4.9	18.2	1.5
22 TXA549-1RU	21.5	0.10	0.17	4.9	20.2	4.1
Entry Means	21.0	0.16	0.18	5.6	23.4	3.4

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

² Glycoalkaloids: The 2006 Lenape check from Aberdeen was 32.9 mg/100g

TABLE 14: 2006 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	E	L		SLV		AB	KIM	HRM	SPR	OTH	OTH	E		L
L	L	L	E	L	E	L			L	L	L	E	L	E	L					
1 RANGER R.	2.0	3.7	3.7	4.5	4.0	2.9	2.9	3.4	4	3.1	3.0	2.8	2.8	3.5	3.5	2.5	3.6	3.6	3.2	6
2 R. BURBANK	2.0	3.2	3.5	2.0	2.5	2.3	2.6	2.6	13	2.3	4.0	2.0	1.3	2.0	2.5	1.6	1.3	1.3	2.0	20
3 R. NORKOTAH	2.0	2.7	3.0	1.0	1.5	2.7	.	2.2	18	.	1.0	3.5	3.3	4.0	3.0	3.3	3.8	2.0	3.0	10
4 SHEPODY	2.0	.	.	3.0	.	2.2	.	-	.	.	2.0	.	.	2.0	.	2.4	2.3	.	2.2	19
5 A95074-6	.	3.0	3.0	3.0	4.0	2.5	3.5	3.2	6	4.2	.	1.5	3.3	1.0	2.0	1.9	1.1	2.2	1.9	21
6 A95109-1	4.0	3.0	2.7	2.5	3.0	2.0	3.4	2.9	8	2.9	3.0	4.5	4.8	3.0	2.5	3.7	3.4	4.5	3.7	1
7 A95409-1	5.0	3.5	4.0	2.0	1.5	3.5	3.4	3.3	5	3.1	5.0	3.8	3.5	2.0	1.0	2.8	4.5	4.6	3.4	3
8 A96104-2	3.0	2.0	3.7	3.0	2.0	2.2	4.0	2.8	9	3.6	3.0	3.0	3.5	4.0	1.5	2.8	3.0	4.5	3.2	6
9 AC96052-1RU	4.0	3.0	3.5	2.5	2.0	1.5	1.9	2.6	13	3.9	2.0	3.0	4.0	3.0	2.5	2.7	1.9	1.9	2.6	14
10 AO96141-3	3.0	3.2	3.9	4.5	4.0	4.3	3.2	3.7	3	3.3	3.0	3.0	2.0	3.5	3.0	2.2	4.5	1.7	2.9	13
11 AO96160-3	4.0	3.3	4.0	4.0	4.5	2.5	4.0	3.8	1	4.2	3.0	4.0	3.8	2.0	4.5	2.6	2.3	3.8	3.3	5
12 AO96164-1	5.0	3.5	4.0	3.5	4.0	3.1	3.6	3.8	1	3.8	4.0	2.5	3.0	3.0	3.0	2.4	3.8	3.8	3.2	6
13 AOA95154-1	3.0	3.5	3.8	2.0	1.0	2.6	3.3	2.7	11	3.6	1.0	4.5	4.3	1.0	1.0	2.4	3.0	2.8	2.5	17
14 AOA95155-7	4.0	3.0	3.7	2.0	2.5	1.7	2.0	2.7	11	2.0	2.0	3.3	3.0	1.0	2.0	2.8	1.5	3.4	2.4	18
15 AOTX95265-2ARu	2.0	1.5	3.5	4.0	1.0	3.5	1.7	2.5	15	1.7	3.0	2.8	2.5	5.0	4.0	3.0	4.5	3.4	3.5	2
16 AOTX95265-4Ru	3.0	1.8	3.0	2.0	1.0	3.1	2.9	2.4	17	3.1	3.0	2.8	2.5	4.0	4.5	3.1	3.8	3.4	3.4	3
17 CO94035-15RU	2.0	1.5	3.2	2.0	1.0	2.1	2.1	2.0	21	2.1	2.0	2.3	3.0	2.0	2.0	2.4	2.9	4.4	2.6	14
18 CO95172-3RU	4.0	4.0	3.7	4.0	1.0	1.8	.	3.1	7	.	3.0	3.0	3.0	4.5	1.5	2.4	1.0	2.0	2.6	14
19 CO97137-1W	1.0	3.5	3.0	1.0	1.5	2.9	.	2.2	18	.	1.0	1.8	2.5	1.0	1.0	2.3	1.0	0.7	1.4	22
20 MWTX2609-2Ru	3.0	3.0	2.9	2.5	1.0	2.7	.	2.5	15	.	5.0	2.3	2.0	2.5	4.0	2.8	3.4	3.4	3.2	6
21 MWTX2609-4Ru	1.0	2.0	2.5	4.0	1.0	3.0	1.7	2.2	18	1.7	5.0	1.8	1.5	2.0	3.5	2.7	3.3	4.5	3.0	10
22 TXA549-1Ru	5.0	3.0	3.5	1.0	1.0	3.4	3.0	2.8	9	3.1	4.0	3.0	4.0	1.5	1.5	4.0	4.4	2.0	3.0	10
Location Means	3.0	2.9	3.4	2.7	2.1	2.7	2.9	2.8		3.0	3.0	2.9	3.0	2.6	2.6	2.7	2.9	3.0	2.8	

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

TABLE 15: 2006 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	%		Merit Score		Noted Weaknesses	Disposition 2007
							Early	Late			Cumulative Shrink ³	Process	Fresh			
1	RANGER R.	-	Dual	544	399	72	7.4	9.2	1.091	1.3	10.3	3.4	3.2		Check	
2	R. BURBANK	-	Dual	564	327	58	5.8	7.8	1.081	1.4	9.1	2.6	2.0		Check	
3	R. NORKOTAH	-	Dual	409	329	80	6.4	7.1	1.073	1.8	8.9	2.2	3.0		Check	
4	SHEPODY	-	Proc	489	369	75	8.8	-	1.070	-	-	-	2.2		Check	
5	A95074-6	3	Dual	589	447	75	6.2	8.3	1.088	0.6	-	3.2	1.9		Graduate	
6	A95109-1	3	Dual	562	501	89	8.3	10.3	1.081	1.5	9.8	2.9	3.7	Shatter	Graduate	
7	A95409-1	2	Dual	591	518	86	9.5	10.3	1.088	1.5	8.2	3.3	3.4	Blkspot (E&L); Fusarium (sol); Tuber blight suscs.	Return	
8	A96104-2	2	Dual	553	453	82	5.8	8.3	1.081	1.0	6.5	2.8	3.2	HH(Late); Corky Rngspt; Tuber blight suscs.	Return	
9	AC96052-1RU	1	Dual	481	401	83	5.1	6.8	1.084	0.5	8.2	2.6	2.6	Low Yld (E&L); Smaller tuber; Shatter (E&L); Fus. (sam&sol)	Return	
10	AO96141-3	1	Dual	579	422	74	7.3	8.8	1.088	0.9	-	3.7	2.9		Return	
11	AO96160-3	3	Dual	555	471	84	5.5	7.7	1.089	0.9	9.7	3.8	3.3	Metribuzin susc	Graduate	
12	AO96164-1	2	Dual	593	477	78	9.0	9.0	1.083	0.8	10.1	3.8	3.2	Fusarium (sam&sol)	Return	
13	AOA95154-1	2	Dual	556	449	80	5.0	7.1	1.088	0.5	9.9	2.7	2.5	Smaller tuber size; Fusarium (sam); Erwinia	Return	
14	AOA95155-7	2	Dual	569	477	83	5.3	8.2	1.082	0.4	8.1	2.7	2.4		Return	
15	AOTX95265-2ARu	1	Dual	506	391	77	6.4	7.2	1.076	2.1	9.9	2.5	3.5	HH (Late); Sugar ends; Vert/ED susc. (E&L)	Return	
16	AOTX95265-4Ru	1	Dual	520	418	80	6.6	7.9	1.076	1.9	12.1	2.4	3.4	Vert/ED susc. (E&L)	Return	
17	CO94035-15RU	3	Dual	493	408	81	6.7	9.1	1.078	1.2	10.4	2.0	2.6		Graduate	
18	CO95172-3RU	2	Fresh	590	473	80	5.5	7.2	1.085	1.4	8.7	3.1	2.6	Smaller tuber size; shatter (E&L); Tuber blight suscs.	Return	
19	CO97137-1W	1	Fresh	415	282	68	5.0	4.9	1.082	2.0	9.7	2.2	1.4	V.small tuber (E&L) - but long; Higher glyc.; Tb & Scab suscs.	Discard	
20	MWTX2609-2Ru	2	Fresh	660	537	81	9.0	10.0	1.082	2.1	10.2	2.5	3.2	HH (Late)	Discard	
21	MWTX2609-4Ru	1	Dual	703	556	78	8.2	10.3	1.082	2.8	10.3	2.2	3.0	Dark fry 45+Sugar ends; Net Necrosis; Corky Ringspot	Discard	
22	TXA549-1Ru	2	Dual	592	481	80	7.2	8.6	1.081	1.1	7.7	2.8	3.0	Oblong shape; Blkspt (E&L); Scab suscs.	Return	
Entry Means				551	436	78	6.8	8.3	1.082	1.3	9.4	2.8	2.8			

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 2005 entries at Tulelake, CA; Evaluated at 173 days after harvest.

TABLE 16: 2006 Western Regional Potato Variety Trial - 3 YEAR SUMMARY OF GRADUATING ENTRIES - LATE TRIAL LOCATION MEANS

Clone	2004						2005						2006					
	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
A95074-6	545 (8/19)	421 76	1.088	1	2.8	3.1	- (-/-)	-	-	-	-	-	589 (7/21)	447 75	1.088	0.8	1.9	3.2
A95109-1	520 (12/19)	472 90	1.080	2.3	3.8	3.4	603 (11/21)	540 89	1.082	1.6	3.7	3.5	562 (11/21)	501 89	1.081	1.3	3.7	2.9
AO96160-3	562 (5/19)	489 86	1.087	0.7	3.5	3.7	599 (13/21)	512 85	1.088	0.8	3.4	3.5	555 (13/21)	471 84	1.089	0.8	3.3	3.8
CO94035-15RU	525 (10/19)	454 85	1.078	1.3	2.9	2.1	516 (17/21)	437 84	1.079	1.1	2.8	2.3	493 (18/21)	408 81	1.078	1.0	2.6	2.0
RANGER R.	550 (7/19)	441 80	1.085	1.6	3.1	3.7	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
R. NORKOTAH	417 (19/19)	331 80	1.070	2.2	3.2	1.7	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
R. BURBANK	580 (4/19)	373 65.181	1.079	1.9	2.3	2.4	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
Trial Mean	531	429 81	1.082	1.4	3.0	3.0	593	486 82	1.083	1.2	2.9	3.0	554	439 79	1.082	1.3	2.8	2.8

Clone	3 Year Average (2004-2006)							Noted Weaknesses	Noted Strengths
	Total Yield ¹ &(rank) ²	US #1 Yield ¹ & %	SG	FRY 45	Merit Score Fresh	Proc			
A95074-6	567 (63)	434 76	1.088	0.9	2.4	3.2		Consistently high gravities (Late) 3/3 years	
A95109-1	562 (44)	504 89	1.081	1.7	3.7	3.3		Scab res. (2/2); High %No.1's (3/3); Low HH (3/3) Large tuber size (3/3); Fusarium res (sol&sam) (2/2)	
AO96160-3	572 (49)	491 85	1.088	0.8	3.4	3.7	Metribuzin susc. 2/3 years & mod. susc. 1/3 years	Consistently high gravities (E&L) 3/3 years Fusarium res. (sol) 2/2 years	
CO94035-15RU	511 (26)	433 83	1.078	1.1	2.8	2.1		Vert/ED res. (3/3); Erwinia res. (2/3)	
RANGER R.	575 (52)	450	1.088	1.5	3.1	3.6			
R. NORKOTAH	427 (0)	346 81	1.072	1.9	3.1	1.9			
R. BURBANK	583 (61)	353 61	1.081	1.6	2.2	2.5			
Trial Mean³	559	451 81	1.082	1.3	2.9	3.0			

¹ (CWT/A)² Percent of entries with lower yields;
e.g. 63% of all late trial entries over
three years, yielded lower than A95074-6³ Late Trial mean of all trial entries 2004-2006