

2008 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS Cooperating

California

Colorado

Idaho

Oregon

Texas

Washington



2008 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

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Western Regional Potato Variety Trial Reports (1998-2008) can be accessed at the following websight:

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

Compiled by Brian

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TABLE 1: 2008 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	Solid Set	175	9-May	8-Oct	109	152	Matrix, Sencor Outlook	Monitor Avaunt	Bravo, Dithane Maxim, Quadris Endura	
											Frost		
2	San Luis Valley Colorado (SLV)	D. Holm, F. Goktepe	Late	Pivot	114-60-40-25+	13-May	23-Sep	112	133	Dual Magnum	Endigo ZC Fulfill	Bravo WS Headline	
											Reglone/Super Tin 80WP		
3	Aberdeen Idaho (AB)	J. Stark, R. Novy, J. Whitworth, P. Bain, M. Chappell	Late	Sprink.	185-100-80	2-May	21-Sep	123	142	Sencor Matrix Eptam	Admire Pro	Dithane F-45 Equus	
											Regalone		
4	Kimberly Idaho (KIM)	J. Stark, R. Novy, J. Whitworth, P. Bain, M. Chappell	Late	Sprink.	139-138	25-Apr	6-Oct	136	164	Eptam, Sencor Matrix	Platinum	Dithane, Equus	
											Mechanical		
5	Parma Idaho (PAR)	M. Thornton, A. French, M. Martin B. Buhrig	Early	Sprink.	204-225-70	8-Apr	4-Aug	112	118	Roundup, Rely	Leverage	KPAM, Quadris, Bravo	
											Prowl, Outlook	Fulfill	Headline, Endura
											Matrix, Eptam	Temik	Dithane, Amistar
											Dessicant		
6	Hermiston Oregon (HRM)	D. Hane, L. Leroux	Early	Pivot	215-80-0-40	25-Mar	4-Aug	118	132	Eptam, Matrix	Mocap, Admire	Vapam, Ridomil Gold	
												Monitor, Asana	Bravo, Dithane
												Onager, Comite	Quadris, Omega
											Mech/Dessicant		
7	Klamath Falls Oregon (KLA)	B. Charlton, D. Culp	Late	Sprink.	165-80-100-205	21-May	9-Oct	111	141	Dual Magnum Prowl H2O Matrix MZ	Admire Pro	Topps MZ Quadris Ridomil Gold MZ	
											Mech/Reglone		
8	Malheur Oregon (MAL)	C. Shock, E. Feibert	Late	Sprink.	100-120	17-Apr	23-Sep	153	159	Prowl, Dual Matrix	Tops-MZ, Gaucho	Tops-MZ, Qaicho Quadris	
											flail		
9	Springlake Texas (SPR)	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	175-11-6	31-Mar	19-Aug	137	141	Treflan, Dual Sencor Roundup	Agri-Mek, Endigo Avaunt, Oberon Rimon, Dimethoate	Super Tin 80, Kocide Penncozeb, Quadris Tops MZ Gaucho	
											Mechanical		
10	Othello (OTH) Othello (OTH) Washington	M. Pavek, R. Knowles	Early	Linear	192-268-350	3-Apr	31-Jul	116	119		Success	Penncozeb	
												Acramite	Omega
												Assail	
											Mechanical		

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

TABLE 2: 2008 Western Regional Potato Variety Trial - CLONE, PARENTAGE, FLOWER COLOR, ENTRY SUBMISSION, USE, TRIAL, YEARS IN TRIAL, SEED SOURCE, STAND, TUBER AND VINE CHARACTERISTICS

No.	Clone	Parents	Flower Color ¹	Entered by Use	Year in Trial	Seed Source	Stand ²	Tuber and Vine Descriptions from Trial Observations 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	95	Long	4.7	Med Russet	3.7	Med-Large	3.2	Med-Late	3.9	2.0
2	Russet Burbank	Early Rose ?	W	Ck Dual	E/L	-	OR	96	Obl-Lng	4.0	Med Russet	3.7	Med-Large	3.7	Med-Late	3.7	2.1
3	Russet Norkotah	ND9687-5Russ ND9526-4Russ	W	Ck Fresh	E/L	-	OR	94	Long	4.2	Med Hvy Rus	4.3	Small	2.3	Early	2.1	2.3
4	Shepody	Bake-King F58050	RP	Ck Proc	E	-	OR	-	-	-	-	-	-	-	-	-	-
5	A0008-1TE	Blazer Russet Classic Russet	W	ID Dual	E/L	1	OR	95	Obl-Lng	3.7	Med Russet	3.2	Small	2.2	Early	2.1	2.5
6	A97066-42LB	AWN86514-2 A86102-6	W	ID Dual	E/L	1	OR	87	Oblong	3.3	Light Russet	2.2	Med-Large	3.3	Late	4.1	1.9
7	AC96052-1RU	A81386-1 GemStar Russet	P	CO Dual	E/L	3	OR	92	Oblong	3.4	Heavy Rus	4.6	Large	4.1	Med-Late	3.8	2.4
8	AO96141-3	A89222-3 COA90064-6	W	OR Dual	E/L	3	OR	96	Long	4.7	Med Russet	3.5	Med-Large	3.3	Med-Late	3.8	2.7
9	AOTX95265-2ARu	A89216-9 A86102-6	W	TX Fresh	E	3	OR	96	Obl-Lng	3.7	Med Russet	3.6	Med-Large	3.6	Med-Late	3.7	1.8
10	AOTX95265-3Ru	A89216-9 A86102-6	W	TX Fresh	E	2	OR	95	Obl-Lng	3.8	Med Russet	3.9	Very Large	4.7	Med-Late	4.0	2.1
11	AOTX95265-4Ru	A89216-9 A86102-6	W	TX Dual	E/L	3	OR	96	Long	4.2	Med Hvy Rus	4.1	Med-Large	3.4	Med Early	3.0	2.2
12	CO97087-2RU	CO87009-4 W1005	W	CO Dual	E/L	2	CO	97	Oblong	3.5	Med Russet	3.8	Medium	3.0	Medium	3.2	3.0
13	CO98067-7RU	Silverton Russet TC1675-1	W	CO Dual	E/L	1	CO	98	Obl-Lng	3.6	Med Russet	3.9	Med-Large	3.4	Med Early	2.6	2.6
14	CO98368-2RU	Russet Nugget Bannock Russet	P	CO Dual	E/L	1	CO	90	Oblong	3.4	Med Russet	3.6	Medium	2.7	Med Early	2.8	2.8
15	PA99N2-1	AO84275-3 G6582-3	W	WA Dual	E/L	1	OR	91	Oblong	2.8	Med Russet	3.3	Med-Large	3.3	Med-Late	3.9	2.7
16	PA99N82-4	PA95B4-149 Rus bulk	W	WA Dual	E/L	1	OR	94	Oblong	2.7	Med Hvy Rus	4.3	Med-Large	3.2	Med-Late	3.6	2.3

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: 2008 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 PAR	OR HRM KLA MAL	WA OTH	Entry Mean/Rank							
1 RANGER R.	466	547	425	273	428	8	bcde	515	552	411	394	595	777	471	670	598	554	7	bcde
2 R. BURBANK	378	647	317	302	411	11	cdef	459	583	431	465	603	966	476	724	592	589	3	b
3 R. NORKOTAH	516	604	481		534	1	a	369	523	300	315	590	730	485	581		487	12	e
4 SHEPODY	462				462	-											-	-	
5 A0008-1TE	518	618	534	337	502	3	ab	482	403	422	463	576	758	443	604	621	530	9	de
6 A97066-42LB	321	525	320	204	343	14	fg	550	468	424	428	513	880	416	704	647	559	6	bcde
7 AC96052-1RU	328	473	198	228	307	15	g	446	473	379	357	561	907	349	569	605	516	10	e
8 AO96141-3	481	650	391	321	461	6	abcd	496	555	428	520	640	893	445	646	634	584	4	bc
9 AOTX95265-2ARu	481	572	418	206	419	10	cdef										-	-	
10 AOTX95265-3Ru	463	596	421	203	421	9	cde										-	-	
11 AOTX95265-4Ru	470	562	322	153	377	13	efg	476	427	383	387	603	785	481	561	495	511	11	e
12 CO97087-2RU	560	533	469	317	470	4	abc	465	455	445	380	624	749	428	660	615	536	8	cde
13 CO98067-7RU	602	727	445	279	513	2	ab	431	538	418	428	480	886	581	699	738	578	5	bcd
14 CO98368-2RU	412	558	336	250	389	12	def	368	409	400	356	472	594	384	539	542	451	13	f
15 PA99N2-1	518	686	319	339	466	5	abcd	557	541	537	595	625	1053	487	785	775	662	1	a
16 PA99N82-4	490	564	387	350	448	7	abcde	516	516	413	516	623	872	494	666	725	593	2	b
Location Means	467	591	386	269	434			472	496	415	431	577	835	457	647	632	550		

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

TABLE 4: 2008 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.	413	451	214	239	329	10	abcd	434	422	288	315	504	693	356	584	501	455	7	bc
	89	83	50	87	77	5		84	76	70	80	85	89	76	87	84	81	9	
2 R. BURBANK	239	306	80	228	213	14	ef	354	373	286	240	411	555	279	524	446	385	12	de
	63	47	25	76	53	15		77	64	66	52	68	57	59	72	75	66	13	
3 R. NORKOTAH	462	516	343		441	1	a	284	466	215	254	512	661	386	548		416	11	de
	90	85	71		82	2		77	89	72	81	87	91	79	94		84	6	
4 SHEPODY	419				419	-											-	-	
	91				91	-											-	-	
5 A0008-1TE	454	554	389	276	418	2	ab	421	289	380	395	525	662	355	573	541	460	6	bc
	88	90	73	82	83	1		87	72	90	85	91	87	80	95	87	86	2	
6 A97066-42LB	173	413	192	155	233	13	def	474	330	273	337	456	788	280	662	553	462	5	bc
	54	79	60	76	67	13		86	70	64	79	89	89	67	94	85	81	9	
7 AC96052-1RU	197	305	137	121	190	15	f	388	372	345	326	434	780	229	530	486	432	9	cd
	60	64	69	53	62	14		87	79	91	91	77	86	66	93	80	83	7	
8 AO96141-3	395	590	207	236	357	6	abc	399	429	344	448	579	825	328	607	558	502	3	b
	82	91	53	74	75	8		80	77	80	86	90	92	74	94	88	85	3	
9 AOTX95265-2ARu	406	503	302	144	339	7	abc										-	-	
	84	88	72	70	79	3											-	-	
10 AOTX95265-3Ru	381	537	304	136	339	7	abc										-	-	
	82	90	72	67	78	4											-	-	
11 AOTX95265-4Ru	425	482	200	87	299	11	bcde	418	322	288	339	553	701	389	530	400	438	8	cd
	90	86	62	57	74	10		88	75	75	88	92	89	81	94	81	85	3	
12 CO97087-2RU	493	397	300	249	360	5	abc	368	370	305	233	504	659	291	625	509	429	10	cd
	88	75	64	79	76	6		79	81	69	61	81	88	68	95	83	78	11	
13 CO98067-7RU	510	585	294	149	384	3	ab	341	449	297	346	411	739	437	654	606	476	4	bc
	85	81	66	53	71	12		79	84	71	81	86	83	75	94	82	82	8	
14 CO98368-2RU	313	398	255	160	282	12	cdef	265	212	314	272	425	387	251	496	446	341	13	e
	76	71	76	64	72	11		72	52	79	76	90	65	65	92	82	75	12	
15 PA99N2-1	430	617	164	268	370	4	abc	461	437	465	530	575	967	356	762	701	584	1	a
	83	90	51	79	76	6		83	81	87	89	92	92	73	97	90	87	1	
16 PA99N82-4	406	421	236	288	338	9	abc	424	428	354	469	507	770	358	624	632	507	2	b
	83	75	61	82	75	8		82	83	86	91	81	88	72	94	87	85	3	
Location Means	382	472	241	195	326			387	377	320	346	492	707	330	594	532	453		
	80	80	62	71	73			82	76	77	80	85	84	72	92	84	81		

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

TABLE 5: 2008 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		Mean/Rank	CA	CO	ID		OR		WA	Entry				
	PAR	HRM	SPR	OTH	PAR	HRM		TUL	SLV	AB	KIM	PAR	HRM	KLA	MAL	OTH	Mean/Rank		
1 RANGER R.	116	105	81	21	81	5	ab	185	102	170	190	213	341	113	194	281	199	2	ab
	25	19	19	8	18	5		36	18	41	48	36	44	24	29	47	36	1	
2 R. BURBANK	8	8	1	43	15	14	de	26	93	83	96	140	160	28	91	129	94	9	de
	2	1	0	14	5	14		6	16	19	21	23	17	6	13	22	16	9	
3 R. NORKOTAH	91	142	164		132	1	a	32	230	42	68	116	160	91	53		99	8	de
	18	24	34		25	1		9	44	14	22	20	22	19	9		20	8	
4 SHEPODY	134				134	-											-	-	
	29				29	-											-	-	
5 A0008-1TE	50	149	233	13	111	2	a	104	33	111	130	143	222	77	66	191	120	7	cd
	10	24	44	4	20	2		22	8	26	28	25	29	17	11	31	22	7	
6 A97066-42LB	10	14	57	3	21	12	cde	212	59	144	192	115	193	29	119	322	154	4	bc
	3	3	18	2	6	12		39	13	34	45	22	22	7	17	50	28	5	
7 AC96052-1RU	0	3	43	0	12	15	e	83	82	28	103	32	129	7	9	84	62	12	ef
	0	1	22	0	6	12		19	17	7	29	6	14	2	2	14	12	10	
8 AO96141-3	33	129	67	14	61	8	abcde	79	84	158	239	133	224	74	26	197	135	6	cd
	7	20	17	4	12	9		16	15	37	46	21	25	17	4	31	24	6	
9 AOTX95265-2ARu	68	103	178	7	89	3	ab										-	-	
	14	18	43	3	20	2											-	-	
10 AOTX95265-3Ru	55	95	191	7	87	4	ab										-	-	
	12	16	45	3	19	4											-	-	
11 AOTX95265-4Ru	94	96	113	2	76	6	abc	144	79	127	182	259	186	137	124	120	151	5	bc
	20	17	35	1	18	5		30	19	33	47	43	24	28	22	24	30	4	
12 CO97087-2RU	109	50	113	5	69	7	abcd	64	62	79	42	42	159	18	25	84	64	11	ef
	20	9	24	2	14	7		14	14	18	11	7	21	4	4	14	12	10	
13 CO98067-7RU	41	77	115	1	58	9	abcde	37	104	7	38	94	116	48	41	138	69	10	ef
	7	11	26	1	11	10		9	19	2	9	20	13	8	6	19	12	10	
14 CO98368-2RU	8	15	46	3	18	13	de	16	15	47	20	67	21	9	12	79	32	13	f
	2	3	14	1	5	14		4	4	12	6	14	4	2	2	15	7	13	
15 PA99N2-1	41	144	21	9	54	11	bcde	224	125	273	297	126	488	68	91	348	226	1	a
	8	21	7	3	10	11		40	23	51	50	20	46	14	12	45	33	2	
16 PA99N82-4	57	56	87	24	56	10	abcde	177	123	136	312	103	304	67	91	375	187	3	ab
	12	10	22	7	13	8		34	24	33	60	17	35	13	14	52	31	3	
Location Means	57	79	101	11	63			106	92	108	147	122	208	59	72	196	122		
	12	13	25	4	13			21	18	25	32	21	24	12	11	30	22		

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

TABLE 6: 2008 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.	38	54	44	31	42	15	d	42	126	13	14	61	32	38	16	35	42	12	d
	8	10	10	11	10	13		8	23	3	4	10	4	8	2	6	8	10	
2 R. BURBANK	85	131	37	52	76	6	abcd	75	187	36	14	70	102	69	18	60	70	4	ab
	22	20	12	17	18	6		16	32	8	3	12	11	15	2	10	12	4	
3 R. NORKOTAH	44	58	35		46	13	cd	79	49	44	37	71	60	44	20		50	6	bc
	9	10	7		8	15		21	9	15	12	12	8	9	3		11	6	
4 SHEPODY	27				27	-											-	-	
	6				6	-											-	-	
5 A0008-1TE	51	40	29	57	44	14	dc	46	108	19	21	41	47	40	15	51	43	11	d
	10	6	5	17	10	13		10	27	5	5	7	6	9	2	8	9	7	
6 A97066-42LB	141	105	91	43	95	3	ab	26	135	16	18	40	72	50	29	34	47	8	cd
	44	20	29	21	28	2		5	29	4	4	8	8	12	4	5	9	7	
7 AC96052-1RU	131	162	47	107	112	1	a	50	100	30	21	103	99	110	38	103	73	3	ab
	40	34	24	47	36	1		11	21	8	6	18	11	31	7	17	15	2	
8 AO96141-3	82	41	61	83	67	8	bcd	43	112	26	20	48	43	53	29	54	48	7	cd
	17	6	15	26	16	8		9	20	6	4	8	5	12	4	8	8	10	
9 AOTX95265-2ARu	70	53	30	60	53	11	cd										-	-	
	14	9	7	29	15	10											-	-	
10 AOTX95265-3Ru	78	48	30	64	55	10	cd										-	-	
	17	8	7	31	16	8											-	-	
11 AOTX95265-4Ru	41	61	30	66	50	12	cd	46	105	17	14	42	58	37	18	55	44	9	cd
	9	11	9	43	18	6		10	25	4	4	7	7	8	3	11	9	7	
12 CO97087-2RU	54	94	60	67	68	7	bcd	86	83	45	49	54	43	76	24	96	62	5	bc
	10	18	13	21	15	10		18	18	10	13	9	6	18	4	16	12	4	
13 CO98067-7RU	85	101	85	130	100	2	ab	80	88	88	58	64	87	98	29	111	78	2	ab
	14	14	19	47	23	4		19	16	21	14	13	10	17	4	15	14	3	
14 CO98368-2RU	94	130	70	88	95	3	ab	88	196	51	67	47	140	83	31	84	88	1	a
	23	23	21	35	25	3		24	48	13	19	10	24	22	6	15	20	1	
15 PA99N2-1	74	49	128	68	80	5	abc	33	79	13	15	37	40	43	15	49	36	13	d
	14	7	40	20	20	5		6	15	2	3	6	4	9	2	6	6	13	
16 PA99N82-4	81	70	56	59	67	8	bcd	35	84	20	16	80	53	38	23	46	44	9	cd
	17	12	14	17	15	10		7	16	5	3	13	6	8	3	6	7	12	
Location Means	73	80	55	70	70			56	112	32	28	58	67	60	24	65	56		
	17	14	16	27	18			13	23	8	7	10	8	14	4	10	11		

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

TABLE 7: 2008 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			OR		WA	Entry	
								AB	KIM	PAR	HRM	KLA	MAL	OTH	Mean/Rank
1 RANGER R.	1.079	1.075	1.066	1.085	1.076	6	cd								
	1.086	1.089	1.089	1.090	1.090	1.090	1.088	1.105	1.085	1.090	4	c			
2 R. BURBANK	1.083	1.078	1.063	1.080	1.076	6	cd								
	1.085	1.087	1.078	1.076	1.088	1.088	1.082	1.086	1.079	1.083	8	de			
3 R. NORKOTAH	1.082	1.076	1.062		1.073	11	d								
	1.075	1.081	1.071	1.074	1.078	1.076	1.072	1.079		1.076	11	f			
4 SHEPODY	1.078				1.078	-									
5 A0008-1TE	1.078	1.084	1.063	1.081	1.077	4	cd								
	1.078	1.083	1.082	1.084	1.082	1.084	1.080	1.087	1.081	1.082	9	e			
6 A97066-42LB	1.079	1.084	1.082	1.090	1.084	1	a								
	1.094	1.103	1.100	1.105	1.101	1.098	1.094	1.109	1.095	1.100	1	a			
7 AC96052-1RU	1.079	1.076	1.066	1.086	1.077	4	cd								
	1.085	1.092	1.088	1.087	1.088	1.090	1.086	1.096	1.087	1.089	5	c			
8 AO96141-3	1.082	1.084	1.071	1.093	1.082	2	ab								
	1.091	1.100	1.091	1.093	1.095	1.096	1.091	1.107	1.096	1.096	2	b			
9 AOTX95265-2ARu	1.078	1.074	1.061	1.076	1.072	15	d								
10 AOTX95265-3Ru	1.079	1.074	1.062	1.075	1.073	11	d								
11 AOTX95265-4Ru	1.082	1.072	1.064	1.075	1.073	11	d								
	1.076	1.078	1.074	1.073	1.078	1.077	1.073	1.076	1.071	1.075	12	f			
12 CO97087-2RU	1.075	1.082	1.070	1.093	1.080	3	abc								
	1.086	1.098	1.084	1.085	1.096	1.091	1.088	1.099	1.088	1.091	3	c			
13 CO98067-7RU	1.084	1.069	1.060	1.078	1.073	11	d								
	1.076	1.080	1.074	1.069	1.076	1.073	1.073	1.080	1.072	1.075	12	f			
14 CO98368-2RU	1.081	1.077	1.062	1.085	1.076	6	cd								
	1.073	1.086	1.074	1.083	1.088	1.080	1.074	1.093	1.080	1.081	10	e			
15 PA99N2-1	1.079	1.073	1.063	1.080	1.074	10	d								
	1.080	1.087	1.085	1.085	1.089	1.086	1.081	1.098	1.083	1.086	6	d			
16 PA99N82-4	1.080	1.076	1.066	1.082	1.076	6	cd								
	1.078	1.086	1.085	1.088	1.089	1.084	1.081	1.098	1.083	1.086	6	d			
Location Means	1.080	1.077	1.065	1.083	1.076										
	1.082	1.088	1.083	1.084	1.088	1.086	1.082	1.093	1.083	1.085					

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

TABLE 8: 2008 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>				
	Early Trial						Late Trial						Early Trial						Late Trial						Late Trial				
	ID	OR	TX	WA	Mean	CA	ID	OR	WA	Mean	CA	ID	OR	TX	WA	Mean	CA	CO	ID	OR	WA	Mean	CA	ID	OR	WA			
PAR	HRM	SPR	OTH		TUL	AB	KIM	PAR	HRM	OTH	Mean	PAR	HRM	SPR	OTH	Mean	TUL	SLV	AB	KIM	PAR	HRM	KLA	OTH	Mean	ID	OR	WA	
1 RANGER R.	7.8	6.5	7.1	6.2	6.6	8.3	10.9	10.5	7.6	9.9	9.6	9.5	4.2	4.9	4.9	4.0	4.6	5.0	5.0	5.0	5.0	3.8	4.8	5.0	4.3	4.7	2.18	1.86	1.82
2 R. BURBANK	5.1	4.5	5.4	5.9	5.3	5.7	7.6	10.1	7.2	7.6	7.2	7.6	3.0	4.4	4.6	3.0	4.0	4.6	5.0	4.0	4.0	4.0	4.6	3.9	3.0	4.1	1.96	1.79	1.71
3 R. NORKOTAH	6.9	6.3	8.7		7.5	5.4	5.9	6.8	6.3	7.9		6.5	4.0	4.7	4.5		4.6	4.3	5.0	4.0	4.0	3.2	4.7	4.0		4.2	1.95	1.83	-
4 SHEPODY	8.6				8.6							-	3.0				3.0									-			-
5 A0008-1TE	6.7	7.0	9.4	5.4	7.3	7.2	8.3	8.8	7.9	8.2	7.5	8.0	3.0	4.4	3.9	3.0	3.8	4.0	4.0	3.3	3.8	3.0	4.7	3.9	3.0	3.7	1.83	1.82	1.68
6 A97066-42LB	3.7	4.6	5.2	5.0	4.9	8.8	9.8	10.3	7.2	7.1	9.4	8.8	2.7	3.3	3.9	3.0	3.4	4.0	4.0	3.8	3.0	2.3	3.4	3.8	2.8	3.4	1.54	1.51	1.51
7 AC96052-1RU	3.9	4.0	6.2	3.8	4.7	6.8	6.6	7.8	6.2	6.6	5.8	6.6	2.3	3.8	4.5	3.0	3.8	4.0	4.0	3.0	3.0	2.3	3.8	3.8	3.0	3.4	1.70	1.60	1.54
8 AO96141-3	5.7	6.7	5.7	4.8	5.7	6.8	8.7	9.6	6.8	8.3	7.4	7.9	4.2	5.0	4.8	4.0	4.6	5.0	5.0	5.0	5.0	4.5	5.0	5.0	4.0	4.8	2.08	2.09	1.95
9 AOTX95265-2ARu	6.1	6.0	9.4	4.4	6.6							-	3.0	4.4	4.5	3.0	4.0									-	-	-	-
10 AOTX95265-3Ru	5.7	6.3	10.1	4.3	6.9							-	3.0	4.8	4.5	3.0	4.1									-	-	-	-
11 AOTX95265-4Ru	7.1	6.1	9.1	3.9	6.4	7.6	8.7	10.1	8.4	7.5	6.9	8.2	4.0	4.6	4.5	3.0	4.0	4.5	5.0	4.5	4.5	3.5	4.4	4.0	3.5	4.2	2.01	1.76	1.80
12 CO97087-2RU	7.4	5.3	7.2	4.9	5.8	5.8	6.5	6.2	6.6	7.9	5.8	6.5	2.5	3.8	4.5	3.0	3.8	4.0	4.0	3.8	3.8	2.7	3.6	3.4	2.7	3.5	1.80	1.54	1.47
13 CO98067-7RU	5.7	5.7	6.1	3.6	5.1	5.5	5.0	6.0	5.4	6.7	6.2	5.8	3.3	4.1	3.8	3.5	3.8	4.0	4.0	3.8	3.8	3.2	4.0	3.1	2.0	3.5	1.90	1.66	1.52
14 CO98368-2RU	5.0	4.6	5.4	4.3	4.8	5.0	6.0	5.4	6.8	5.1	5.8	5.7	3.0	3.8	3.7	3.0	3.5	4.0	4.0	3.3	3.0	2.2	4.1	3.8	3.0	3.4	1.71	1.67	1.63
15 PA99N2-1	5.8	6.8	5.1	5.2	5.7	9.4	10.7	11.0	7.6	9.5	8.8	9.5	3.0	3.4	2.0	2.0	2.5	4.0	4.0	3.0	2.8	1.5	3.2	2.4	1.8	2.8	1.43	1.44	1.22
16 PA99N82-4	5.8	5.7	7.3	5.4	6.1	8.6	8.4	11.5	6.4	8.3	9.4	8.8	3.2	2.6	3.5	2.0	2.7	3.8	2.0	3.0	3.0	2.7	2.7	1.6	2.0	2.6	1.62	1.32	1.20
Location Means	6.1	5.7	7.2	4.8	6.0	7.0	7.9	8.8	7.0	7.7	7.5	7.6	3.2	4.1	4.1	3.0	3.8	4.2	4.2	3.8	3.7	3.0	4.1	3.7	2.9	3.7	1.82	1.68	1.59

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

TABLE 9: 2008 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.	4.7	4.3	5.0	4.0 AB 3.0	5.0	4.8	3.0	3.3	5.0	4.6 KIM 3.5
2 R. BURBANK	3.6 PAR 2.3 HRM 2.3	3.2 KIM 2.5 PAR 2.3	3.5 OTH 2.0	3.0 KIM 2.5 OTH 2.5	5.0	4.7	3.0	3.2	5.0	5.0
3 R. NORKOTAH	4.9	5.0	5.0	4.9	5.0	4.9		3.3	5.0	4.8
4 SHEPODY	4.5	-	-	-	5.0	-			5.0	-
5 A0008-1TE	4.0 SPR 2.8	4.4	5.0	4.7	4.6 HRM 3.3	3.9	3.0	2.8	5.0	4.9
6 A97066-42LB	5.0	4.5	4.5	4.3	4.7	3.6 TUL 3.0 PAR 3.0	2.0	3.5	5.0	4.8
7 AC96052-1RU	4.9	5.0	5.0	4.8	4.9	4.1 PAR 2.8	3.0	2.7	5.0	4.9
8 AO96141-3	4.8	4.8	5.0	4.5	5.0	4.9	4.0	3.8	5.0	4.7
9 AOTX95265-2ARu	4.9	-	5.0	-	5.0	-		-	5.0	-
10 AOTX95265-3Ru	4.9	-	5.0	-	5.0	-		-	5.0	-
11 AOTX95265-4Ru	4.9	4.9	5.0	4.7	5.0	4.7	4.0	3.5	5.0	4.8
12 CO97087-2RU	4.9	4.7	5.0	4.9	4.9	4.8	4.0	3.3	5.0	5.0
13 CO98067-7RU	5.0	4.9	5.0	4.7	5.0	4.8	4.0	3.3	5.0	4.8
14 CO98368-2RU	5.0	5.0	5.0	4.9	4.5 HRM 3.8	3.1 PAR 2.0	2.0	2.8	5.0	4.8
15 PA99N2-1	4.7	4.4 SLV 3.0	5.0	4.4	4.8	3.4 PAR 2.0	2.0	2.6	5.0	4.5 PAR 3.3
16 PA99N82-4	4.2 HRM 3.3	4.0 KLA 3.1	5.0	4.9	4.3 HRM 3.0	3.4 HRM 2.8 PAR 2.8	1.0	3.0	5.0	4.8
Entry Means	4.7	4.5	4.9	4.5	4.9	4.2	2.9	3.2	5.0	4.8

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: 2008 Western Regional Potato Variety Trial - INTERNAL DEFECTS MEANS OF LOCATIONS - HOLLOW HEART/BROWN CENTER, INTERNAL BROWN SPOT, VASCULAR DISCOLORATION/NET NECROSIS, AND BLACKSPOT¹

No. Clone	Percent Hollow Heart Plus Brown Center		Percent Internal Brown Spot		Percent Net Necrosis/ Vascular Discoloration		Blackspot Bruise [(1-5(NONE))]		ID ²
	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	
1 RANGER R.	0	1	0	0	4 PAR 23	9	4.5	3.9 ^{HRM 3.0 OTH 3.0}	2.1
2 R. BURBANK	20 ^{HRM 18 PAR 50}	10 HRM 31	0	5 HRM 39	0 PAR 20	2	4.0 HRM 3.1	4.4	2.4
3 R. NORKOTAH	3	6	0	0	2	5	5.0	4.7	2.5
4 SHEPODY	10 PAR 10	-	0	-	-	-	-	-	-
5 A0008-1TE	3	7 AB 28	0	1	2	1	4.9	4.4	2.8
6 A97066-42LB	0	1	0	0	3	3	4.7	4.1	1.5
7 AC96052-1RU	1	1	0	0	1	5 HRM 21	4.9	3.9 ^{HRM 3.0 CO 2.7}	3.1
8 AO96141-3	0	7 AB 33	0	0	6	6	5.0	4.6	3.2
9 AOTX95265-2ARu	2	-	0	-	7	-	4.6	-	-
10 AOTX95265-3Ru	0	-	1	-	5	-	4.7	-	-
11 AOTX95265-4Ru	1	7 TUL 20	0	0	7	2	5.0	4.5	2.5
12 CO97087-2RU	0	2	0	0	0	1	4.6	4.5	3.2
13 CO98067-7RU	0	1	0	0	3	4 HRM 20	4.7	4.7	2.8
14 CO98368-2RU	0	0	1	0	0	4	4.6	4.6	2.5
15 PA99N2-1	0	4 KLA 23	0	2 HRM 13	0	4	4.4	4.6	2.8
16 PA99N82-4	2	17 ^{AB 73 KLA 40 TUL 51}	1	1	0	2	4.9	4.0 KLA 3.0	3.2
Entry Means	3	5	0	1	2	4	4.7	4.4	2.6

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)].

TABLE 11: 2008 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	ID	OR		WA	Entry Mean	CO	ID		OR	WA	Entry Mean	ID		WA	Entry Mean	ID		OR		Entry Mean		
	SLV	PAR	HRM	MAL	OTH		SLV	AB	KIM	HRM	OTH		AB	KIM	OTH		AB	KIM	PAR	HRM		MAL	
L	E	E	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
1 RANGER R.	2.0	0.0	0.2	0.0	0.0	0.4	3.0	1.1	0.6	1.4	0.0	1.2	3.6	3.9	3.0	3.5	21	29	0	0	5	0	9
2 R. BURBANK	2.0	0.3	0.5	0.3	0.0	0.6	2.0	0.5	0.5	2.3	0.0	1.1	4.0	3.8	3.0	3.6	21	29	0	0	93	0	24
3 R. NORKOTAH	2.0	0.3	0.7	0.3		0.8	2.0	1.0	0.8	2.0		1.4	4.0	4.0		4.0	25	25	0	15	45	3	19
4 SHEPODY		0.0		0.0		0.0						-				-		0					0
5 A0008-1TE	2.0	0.5	0.1	0.0	0.0	0.5	3.0	1.0	0.9	1.5	0.0	1.3	4.0	4.0	3.0	3.7	21	21	0	5	23	0	12
6 A97066-42LB	3.0	0.0	0.3	0.0	0.0	0.7	2.0	0.8	0.7	1.5	0.0	1.0	3.7	3.8	3.0	3.5	11	0	0	0	18	0	5
7 AC96052-1RU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.2	0.0	0.4	3.2	2.4	2.0	2.5	4	11	0	3	18	0	6
8 AO96141-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.7	0.0	0.3	2.8	3.8	0.0	2.2	25	29	0	0	8	0	10
9 AOTX95265-2ARu		0.1	1.4	0.0		0.5						-				-		0	25				13
10 AOTX95265-3Ru		0.0	1.2	0.0		0.4						-				-		0	30				15
11 AOTX95265-4Ru	3.0	0.1	1.0	0.5	1.0	1.1	4.0	1.3	0.7	2.0	2.0	2.0	4.0	4.0	4.0	4.0	19	29	0	20	50	0	20
12 CO97087-2RU	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.4	0.1	0.0	0.2	3.2	2.6	1.0	2.3	4	36	0	3	0	0	7
13 CO98067-7RU	1.0	0.1	0.7	0.5	0.0	0.5	2.0	0.8	0.6	1.7	1.0	1.2	4.0	4.0	4.0	4.0	4	4	0	0	18	0	4
14 CO98368-2RU	2.0	0.1	0.1	0.3	0.0	0.5	3.0	1.0	0.8	1.2	0.0	1.2	4.0	3.9	3.0	3.6	31	13	0	0	33	0	13
15 PA99N2-1	3.0	0.5	0.1	0.0	0.0	0.7	3.0	1.0	0.6	1.2	0.0	1.2	3.8	3.8	2.0	3.2	4	0	0	0	10	0	2
16 PA99N82-4	1.0	0.3	0.0	0.0	0.0	0.3	2.0	0.7	0.7	0.8	0.0	0.8	3.1	3.4	2.0	2.8	15	0	0	3	3	0	3
Location Means	1.6	0.2	0.4	0.1	0.1	0.4	2.0	0.8	0.6	1.4	0.3	1.0	3.6	3.6	2.5	3.3	16	17	0	7	25	0	10

Storage protocol prior to frying

Aberdeen - 4 weeks from 55F to 45F, 5 weeks from 55F to 40F, and 8 weeks @ 45F and 9 weeks @ 40F.

Hermiston - 3 weeks from 60F to 45F, and 9 weeks @45F.

Kimberly - 4 weeks from 55F to 45F, 5 weeks from 55F to 40F, and 8 weeks @ 40F and 7 weeks @ 45F.

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

San Luis Valley - 5 weeks from 55F to 45F, and 8 weeks @ 45F.

* Comprehensive post harvest evaluations of entries can be found in the 2008 Potato Cultivar Yield & Post Harvest Quality Evaluations - Washington State University. Contact: Rick Knowles. www.potatoes.wsu.edu

TABLE 12: 2008 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 Soft Rot ¹ (0-5)	Metribuzin Reaction. ⁵ AB	
		AB ¹	HRM ²		Foliar	Tuber	AUDPC	% Serious	Defect	Incidence	%	% Serious	PVY	PLRV	% Corky	Root- knot ⁴			Dry Rot ¹ (0-5) F(sam)
1	RANGER R.	5.0	5.8	4.7	6.8	0	721	2.0	5	74	13.0	100	100	65	S	2.5	4.6	1.1	-
2	R. BURBANK	6.7	7.0	4.0	7.5	3	895	2.3	13	72	19.7	60	60	43	S	4.2	4.6	4.1	MR
3	R. NORKOTAH	8.8	9.0	--	9.0	0	1378	2.3	1	90	27.0	65	35	37	S	1.9	3.7	0.5	-
4	SHEPODY	5.5	--	5.0	--	--	--	3.3	26	89	27.3	-	-	-	-	2.1	2.7	3.1	S
5	A0008-1TE	6.5	9.0	5.3	8.8	0	1381	0.0	0	63	9.3	60	45	21	S	1.5	3.3	2.1	MR
6	A97066-42LB	2.7	3.8	3.0	5.8	0	379	3.3	17	77	13.0	25	30	85	S	4.0	3.7	1.7	MR
7	AC96052-1RU	4.0	3.8	3.3	6.5	0	499	2.0	4	67	3.6	100	95	33	S	4.3	4.3	0.7	MR
8	AO96141-3	5.7	5.0	3.0	6.5	0	651	1.3	3	78	1.8	75	15	50	S	3.7	1.3	0.7	MR
9	AOTX95265-2ARu	8.2	8.6	3.0	8.3	0	1214	1.3	2	98	20.6	90	0	35	S	1.5	3.2	2.7	-
10	AOTX95265-3Ru	7.8	8.9	4.0	8.0	0	1028	1.0	0	89	28.1	65	5	51	S	1.7	3.6	1.9	-
11	AOTX95265-4Ru	8.0	9.0	3.3	8.8	3	1266	1.3	2	89	23.4	70	70	52	S	1.6	3.3	1.9	MR
12	CO97087-2RU	7.0	7.3	3.3	8.3	0	1211	1.0	1	59	8.0	85	100	0	S	2.9	2.0	1.0	MR
13	CO98067-7RU	7.5	9.0	4.3	8.8	0	1234	1.3	1	83	9.4	85	80	55	S	1.8	3.0	0.3	MS
14	CO98368-2RU	7.5	8.4	3.7	9.0	3	1715	0.7	0	73	5.7	0	100	24	S	2.6	3.9	0.6	MR
15	PA99N2-1	3.3	4.3	3.0	7.0	0	814	3.0	15	58	2.1	75	100	0	S	3.3	2.9	2.3	MR
16	PA99N82-4	4.0	6.0	2.7	7.8	0	928	2.0	13	43	4.2	95	100	0	R	3.5	3.3	1.9	MR
Entry Means		6.1	7.0	3.7	7.8	1	1021	1.8	6	75	13.5	70	62	37	-	2.7	3.3	1.7	-
LSD (.05)		1.7	1.3	1.8	0.7	5	271	1.4	15.0	24.3	17.6	-	-	-	-	0.7	1.1	1.5	-

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: 2008 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	20.9	0.07	0.17	5.8	29.5	2.7
2 RUSSET BURBANK	20.0	0.06	0.14	4.9	21.4	4.0
3 RUSSET NORKOTAH	18.4	0.10	0.12	5.1	19.3	2.3
5 A0008-1TE	20.7	0.05	0.17	6.8	26.1	1.0
6 A97066-42LB	25.0	0.05	0.22	5.5	19.6	8.5
7 AC96052-1RU	23.5	0.01	0.16	6.5	31.2	1.2
8 AO96141-3	23.6	0.03	0.25	6.6	24.2	2.2
11 AOTX95265-4RU	19.4	0.09	0.13	5.4	22.1	3.3
12 CO97087-2RU	22.6	0.02	0.14	6.5	21.4	1.5
13 CO98067-7RU	19.4	0.03	0.12	4.5	23.3	1.0
14 CO98368-2RU	21.2	0.05	0.15	5.9	28.5	0.3
15 PA99N2-1	20.7	0.05	0.19	6.4	20.6	1.7
16 PA99N82-4	22.3	0.04	0.19	6.3	26.5	1.5
Entry Means	21.3	0.05	0.17	5.9	24.1	2.4

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

² Glycoalkaloids: The 2008 Lenape check from greenhouse grown at Aberdeen was 9.0. mg/100g

TABLE 14: 2008 Western Regional Potato Variety Trial - MERIT SCORES [1-5(best)]

No. Clone		Process										Process	Fresh												
		CO		ID			OR		WA		Early Trial	Late Trial	WA ¹ 3 State Mean	CO		ID			OR		TX SPR	WA		Early Trial	Late Trial
		SLV	AB	KIM	PAR	HRM	OTH	E	L	E				L	SLV	AB	KIM	PAR	HRM	SPR		E	L		
		L	L	L	E	L	E	L	E	L	Mean(Rnk)	Mean(Rnk)	Mean	L	L	L	E	L	E	L	E	L	Mean(Rnk)	Mean(Rnk)	
1	RANGER R.	3.0	3.2	3.0	4.0	4.3	4.5	3.5	3.5	3.5	4.0 (2)	3.4 (5)	3.6	5.0	1.8	2.5	3.0	3.0	3.0	1.0	2.0	2.6	2.8	2.7 (6)	2.7 (7)
2	R. BURBANK	3.0	3.5	3.0	3.7	3.3	1.5	1.0	2.8	1.8	2.6 (9)	2.6 (11)	2.8	3.0	2.3	1.5	3.0	2.3	1.0	1.0	1.0	2.0	1.4	1.7 (15)	1.9 (13)
3	R. NORKOTAH	5.0	2.7	2.8	3.3	3.3	2.5	1.0	-	-	2.9 (5)	3.0 (6)	-	5.0	2.5	3.5	3.0	3.8	5.0	4.0	3.7	-	-	3.9 (1)	3.8 (1)
4	SHEPODY				3.0						-	-	-											-	-
5	A0008-1TE	1.0	3.3	3.3	3.3	3.8	5.0	3.0	3.7	3.2	4.0 (2)	2.9 (8)	3.8	2.0	4.0	3.5	3.3	4.0	4.5	5.0	2.9	4.3	3.4	3.8 (2)	3.7 (2)
6	A97066-42LB	2.0	3.2	2.7	3.7	3.5	2.0	3.5	2.9	3.2	2.9 (5)	3.0 (6)	3.6	3.0	2.0	2.0	3.7	2.0	1.0	1.0	3.0	1.5	2.1	2.3 (10)	2.0 (11)
7	AC96052-1RU	5.0	3.7	4.0	4.0	2.3	2.0	3.5	2.1	3.4	2.7 (8)	3.7 (3)	4.6	4.0	3.8	3.5	4.0	3.0	1.0	3.5	2.4	1.7	1.5	2.3 (10)	3.2 (3)
8	AO96141-3	5.0	4.0	4.0	4.0	3.0	4.5	3.0	4.3	3.9	4.3 (1)	3.8 (1)	4.2	4.0	3.3	3.3	3.3	3.0	2.5	1.5	2.5	2.4	2.7	2.7 (6)	3.0 (6)
9	AOTX95265-2ARu				4.0		1.0		2.8		2.6 (9)	-	-	.		2.7		4.0		3.7	3.3			3.4 (3)	-
10	AOTX95265-3Ru				4.0		1.0		2.5		2.5 (13)	-	-	.		2.0		4.5		3.1	2.8			3.1 (4)	-
11	AOTX95265-4Ru	1.0	3.0	3.0	3.7	4.0	1.0	1.0	2.6	1.8	2.4 (14)	2.3 (13)	1.9	2.0	2.5	3.3	2.2	3.5	4.0	4.5	2.9	3.2	2.7	3.1 (4)	3.1 (5)
12	CO97087-2RU	5.0	4.0	4.0	3.3	1.7	2.5	4.0	3.9	4.2	3.3 (4)	3.8 (1)	4.6	3.0	1.8	1.0	2.3	1.0	1.0	4.0	3.2	3.3	3.0	2.4 (9)	2.3 (9)
13	CO98067-7RU	5.0	3.5	3.2	3.0	3.7	2.0	3.0	2.8	2.3	2.6 (9)	3.5 (4)	2.4	5.0	2.3	3.5	2.5	3.2	3.0	3.0	2.9	1.9	2.3	2.6 (8)	3.2 (3)
14	CO98368-2RU	1.0	3.5	3.2	2.7	2.5	2.0	2.0	3.7	2.6	2.8 (7)	2.5 (12)	2.8	1.0	2.8	2.8	2.3	3.2	1.0	1.0	2.5	2.0	1.0	2.0 (14)	2.0 (11)
15	PA99N2-1	1.0	3.7	3.7	2.3	1.7	2.0	2.5	3.6	3.8	2.6 (9)	2.7 (10)	4.0	4.0	3.5	2.8	2.2	2.2	1.0	1.0	2.1	3.4	2.8	2.2 (12)	2.7 (7)
16	PA99N82-4	4.0	3.3	3.9	2.0	2.0	1.0	1.0	2.9	3.4	2.0 (15)	2.9 (8)	4.2	3.0	2.8	2.5	2.0	2.7	1.0	1.0	3.2	2.7	1.2	2.2 (12)	2.2 (10)
Location Means		3.2	3.4	3.4	3.4	3.0	2.3	2.5	3.1	3.1	2.9	3.1	3.5	3.4	2.7	2.7	2.8	2.8	2.5	2.4	2.7	2.6	2.3	2.7	2.7

¹ Score based upon Idaho, Oregon, and Washington samples evaluated postharvest at Washington State University. (www.potatoes.wsu.edu)
Scale [1-5(best)]

TABLE 15: 2008 Western Regional Potato Variety Trial - ENTRY SUMMARY¹

No. Clone	Year		US Total Yield ²	US #1's Yield ²	% US #1's ²	Tuber		Specific Gravity ²	Fry 45 Color	%Cumulative Shrink & Sprout Rating ³	Combined (E&L) Merit Score ⁴		Disposition 2009	
	In Trial	Use				Early	Late				Process	Fresh		Observations
1 RANGER R.	-	Dual	554	455	81	6.6	9.5	1.090	1.2	7.5	3.0	3.6	2.7	Check
2 R. BURBANK	-	Dual	589	385	66	5.3	7.6	1.083	1.1	8.5	4.0	2.6	1.9	Check
3 R. NORKOTAH	-	Fresh	487	416	84	7.5	6.5	1.076	1.4	8.5	3.0	3.0	3.8	Check
4 SHEPODY	-	Proc	462	419	91	8.6	-	1.078	-	7.9	4.0	-	-	Check
5 A0008-1TE	1	Dual	530	460	86	7.3	8.0	1.082	1.3			3.3	3.7	High % No1 (E&L); Large Tuber Size (E) Scab & F(samb) Res.; High Protein Return
6 A97066-42LB	1	Dual	559	462	81	4.9	8.8	1.100	1.0			3.0	2.1	High SG (E&L); Vert/ED & LB & PVY Res.; Scab & Dry Rot Susc. Return
7 AC96052-1RU	3	Dual	516	432	83	4.7	6.6	1.089	0.4	6.3	3.0	3.3	2.8	High Vit. C; PLRV & Vert Res. Blackspot & F(sam) & F(sol) Susc. Graduate
8 AO96141-3	3	Dual	584	502	85	5.7	7.9	1.096	0.3	9.4	3.0	4.0	2.8	High SG (E&L); Long tubers (E&L) PLRV and F(sol) Res. Graduate
9 AOTX95265-2ARu	3	Fresh	419	339	79	6.6	-	1.072	-	6.3	3.0	2.6	3.4	PLRV & F(Samb) Res.; Vert/ED & NN/VD Susc. Low SG (E) Graduate
10 AOTX95265-3Ru	2	Fresh	421	339	78	6.9	-	1.073	-	9.9	3.0	2.5	3.1	PLRV & F(samb) Res; NN/VD Susc. (E) Discard
11 AOTX95265-4Ru	3	Dual	511	438	85	6.4	8.2	1.075	2.0	9.6	3.0	2.3	3.1	Low Yield & SG (E&L); F(samb) Res. Vert/ED & NN/VD Susc. Graduate
12 CO97087-2RU	2	Dual	536	429	78	5.8	6.5	1.091	0.2	10.5	3.5	3.6	2.4	High SG (E&L); CRS & F(sol) Res. Return
13 CO98067-7RU	1	Dual	578	476	82	5.1	5.8	1.075	1.2			3.2	3.0	Smaller Tuber Size (E&L); Low SG (E&L); F(samb) Res. Return
14 CO98368-2RU	1	Dual	451	341	75	4.8	5.7	1.081	1.2			2.6	2.0	PVY & F(sol) Res; Low Yield (E&L); Smaller Tuber Size (E&L); Shatter Susc. Return
15 PA99N2-1	1	Dual	662	584	87	5.7	9.5	1.086	1.2			2.7	2.5	Large Tuber Size (L); Rounder Tuber Vert/ED & CRS Res.; Scab Susc. Return
16 PA99N82-4	1	Dual	593	507	85	6.1	8.8	1.086	0.8			2.6	2.2	LargeTuber (L); Rounder Tuber; CRS & Rootknot Res.; Shatter & HH Susc. (L) Return
Entry Means			528	438	81	6.0	7.6	1.084	1.0	8.4	3.3	3.0	2.8	

¹ Numeric values represent means across all trial locations.
² Data shown from late trial results, unless entry was in the early trial only (Shepody, AOTX95265-2ARu, AOTX95265-3Ru)
³ 2007 entries at Tulelake, CA; Evaluated at 184 days after harvest. Sprout rating [(1-5(none))]
⁴ Data shown from early & late trial results unless entry was in the early trial only (AOTX95265-2ARu, AOTX95265-3Ru)

TABLE 16: 2008 Western Regional Potato Variety Trial - 3 YEAR SUMMARY OF GRADUATING ENTRIES - LATE TRIAL LOCATION MEANS

Clone	2006						2007						2008					
	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
AC96052-1RU	481 (19/21)	401 83	1.084	0.5	2.6	2.6	446 (19/19)	375 84	1.086	0.4	2.9	2.9	516 (10/13)	432 83	1.089	0.4	2.8	3.3
AO96141-3	579 (3/21)	422 74	1.088	0.5	2.9	3.7	588 (7/19)	451 77	1.093	0.6	3.5	3.9	584 (4/13)	502 85	1.096	0.3	2.8	4.0
AOTX95265-2ARu	506 (17/21)	391 77	1.076	2.1	3.5	2.5	469 (17/19)	401 85	1.073	2.0	3.2	2.4	419 (10/15)	339 79	1.072	-	3.4	2.6
AOTX95265-4Ru	520 (16/21)	418 80	1.076	1.9	3.4	2.4	498 (15/19)	424 85	1.073	1.5	3.7	2.8	511 (11/13)	438 85	1.075	2.0	3.1	2.3
RANGER R.	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	554 (7/13)	455 81	1.090	1.2	2.7	3.6
R. NORKOTAH	409 (21/21)	329 80	1.073	1.78	3.0	2.2	476 (16/19)	393 82.377	1.073	1.4	3.3	2.3	487 (12/13)	415.6 84	1.076	1.44	3.8	3.0
R. BURBANK	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	589 (3/13)	385 66	1.083	1.1	1.9	2.6
Trial Mean	554	439 79	1.082	1.3	2.8	2.8	545	446 82	1.082	1.0	3.0	3.0	528	438 81	1.084	1.0	2.8	3.0

Clone	3 Year Average (2005-2008)								Noted Weaknesses	Noted Strengths
	Total Yield ¹ &(rank) ²	US #1 Yld ¹ %	SG	FRY 45	Merit Score Fresh	Proc				
AC96052-1RU	481 (9)	403 83	1.086	0.4	2.8	2.9			Low Ylds(E&L)&No.1 Yld(E)3/3;Small Tuber(E&L) 3/3; Shatter Bruise(E&L)2/3; Blkspt2/3; DryRot3/3	Verticillium Resistance 2/3
AO96141-3	584 (74)	458 79	1.092	0.5	3.1	3.9				High Ylds(L), SG(E&L), Merit Proc.; Longer Tuber(E&L), Fry 40 3/3; PVY&PLRV Res. 2/3; F(sol)&Erwinia Res. 3/3
AOTX95265-2ARu	465 (20)	377 80	1.074	2.1	3.4	2.5			Vert/ED Susc. 3/3	High Merit Fresh 3/3; PLRV Res. 2/3; F(sol) Res. 2/3 & F(sam) Res. 3/3
AOTX95265-4Ru	510 (19)	427 83	1.075	1.8	3.4	2.5			Low SG (L) 3/3; Vert/ED Susc. 3/3	High Merit Fresh 3/3 & %No.1's(L) 2/3; F(sol) Res. 2/3 & F(sam) Res. 3/3
RANGER R.	553 (42)	432 77	1.091	1.2	2.9	3.5				
R. NORKOTAH	457 (8)	379 82	1.074	1.5	3.4	2.5				
R. BURBANK	570 (57)	355 62	1.082	1.2	1.9	2.5				
Trial Mean³	542	441 80	1.083	1.1	2.9	2.9				

¹ (CWT/A)

² Percent of entries with lower yields; e.g. 9% of all late trial entries over three years, yielded lower than AC96052-1RU

³Late Trial mean of all trial entries 2006-2008