

2001 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

California

Colorado

Idaho

New Mexico

Oregon

Texas

Washington

State Experiment Stations and
USDA-ARS Cooperating



2001 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

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TABLE 1: 2001 Western Regional Potato Variety Trial - LOCATIONS, COOPERATORS, AND CULTURAL INFORMATION

No.	Locations	Cooperators	Trial	Irrigation	Fertilizer N-P-K-S(lb/A)	Planting Date	Harvest Date	Days to Vine Kill	Days to Harvest	Herbicides	Pesticides Applied ¹		
											Insecticides	Fungicides	
1	Kern Co. California (KRN)	R. Voss, H. Phillips, J. Nunez	Early	Sprink.	245-196-0-0+	22-Feb	28-Jun	-	126	Eptam, Prowl		Bravo W.S.	
2	Tulelake California (TUL)	R. Voss, H. Phillips, D. Kirby, H. Carlson	Late	Sprink.	160-20	10-May	14-Sep	111	127	Lexone, Matrix	Pounce	Curzate, Dithane, Bravo, Dithane, Kocide	
3	San Luis Valley Colorado (SLV)	D. Holm, F. Popiel	Late	Pivot	118-60-40-87	16-May	25-Sep	107	132	Sencor+Eptam	Leverage 2.7	Quadris, Agri Tin 80 WP, Super Tin 80 WP, Bravo WS	
4	Aberdeen Idaho (AB)	S. Love, R. Novy, D. Corsini	Late	Sprink.	220-120-40	2-May	21-Sep	127	142	Sencor DF 75% +Matrix, Eptam 7E	Admire	Dithane	
5	Kimberly Idaho (KIM)	S. Love, R. Novy, D. Corsini	Late	Sprink.	130-120-60	30-Apr	9-Oct	133	162	Eptam 7E, Sencor DF 75% +Matrix	Admire	Dithane	
6	Farmington New Mexico (FRM)	M. O'Neil, C. Owen	Late	Sprink.	350-104-120	26-Apr	4-Oct	-	161	Turbo			
7	Hermiston Oregon (HRM)	D. Hane, A. Mosley	Early Late	Pivot Pivot	300-100-250-50+ 335-80-250-40+	23-Mar 16-Apr	2-Aug 8-Oct	118 161	132 175	Eptam, Gramoxone, Matrix	MoCap, Admire MoCap, Admire, Comite, Monitor	Vapam Ridimil Gold, Dithane, Bravo/Quadris	
8	Klamath Falls Oregon (KLM)	K. Rykbost, B. Charlton	Late	Sprink.	160-80-80-140	24-May	27-Sep	106	126			Tops MZ, Dithane, Quadris	
9	Malheur Oregon (MAL)	C. Shock, A. Mosley, E. Eldredge	Early Late	Sprink. Sprink.	161-100-50-60+ 161-100-50-60+	12-Apr 19-Apr	21-Aug 27-Sep	123 148	131 161	Roundup, Prowl+Dual, Matrix	Tops-MZ- Goucho	Telone II, Ridomil+ Bravo, Dithane+ Mn, Cu, Sulfer	
10	Springlake Texas (SPR)	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	160-33-63	21-Mar	14-Aug	128	146	Dual, Sencor, Matrix, Roundup	Genesis, Admire	Tops MZ, Bravo, Quadris	
11	Pasco (PAS) Othello (OTH) Washington	R. Thornton, N. Fuller, E. Driskill, R. Knowles G. Newberry	Early Late	Pivot Sprink.	275-180-150 351-389-241	21-Mar 3-Apr	24-Jul 3-Oct	105 171	125 183	Dual II, Sencor Eptam, Sencor, Matrix	Thimet, Asana, Fulfill, Success Comite	Quadris, Bravo Bravo, Dithane Quadris	

¹ Bold indicates use in both early and late trial.

TABLE 2: 2001 Western Regional Potato Variety Trial - CLONE, PARENTAGE, FLOWER COLOR, ENTRY SUBMISSION, USE, TRIAL, YEARS IN TRIAL, SEED SOURCE, STAND, TUBER AND VINE CHARACTERISTICS

No. Clone	Parents	Flower Color ¹	Entered by	Use	Trial	Year in Trial	Seed Source	Stand ²	Tuber and Vine Descriptions ²							
									Tuber Shape (1-5) ³		Tuber Skin (1-5) ⁴		Vine Size (1-5) ⁵		Vine Maturity (1-5) ⁶	
1	RUSSET BURBANK	W	Ck	Dual	E/L	-	OR	97	Long	4.4	Med Russet	3.4	Med-large	4.0	Medium	3.4
2	RANGER RUSSET	RP	Ck	Dual	E/L	-	OR	97	Long	4.4	Med Russet	3.4	Med-large	3.7	Medium	3.5
3	RUSSET NORKOTAH	W	Ck	Fresh	E/L	-	OR	96	Long	4.3	Med Russet	3.9	Small	2.4	Early	2.3
4	SHEPODY	RP	Ck	Proc	E	-	OR	96	Obl-Lng	4.0	White	1.6	Med-large	3.5	Medium	3.2
5	A8893-1	W	ID	Dual	E/L	3	OR	96	Obl-Lng	3.7	Med Russet	3.4	Med-large	3.4	Med-early	2.9
6	A9014-2	W	ID	Dual	E/L	3	ID	96	Obl-Lng	3.9	Med Russet	3.8	Med-large	3.6	Medium	3.3
7	A9045-7	RP	ID	Dual	E/L	2	OR	96	Obl-Lng	3.9	Light Russet	2.8	Med-large	3.8	Med-late	3.9
8	A90586-11	W	ID	Dual	E/L	2	OR	97	Long	4.3	Light Russet	2.1	Large	4.2	Med-late	4.0
9	AC87079-3	W	CO	Fresh	E/L	3	CO	94	Obl-Lng	3.7	Med Russet	3.7	Med-large	3.8	Medium	3.2
10	AC87138-4	W	CO	Dual	E/L	3	OR	96	Long	4.2	Med Russet	3.7	Large	4.2	Med-late	3.8
11	AC89536-5	RP	CO	Fresh	E/L	2	OR	95	Obl-Lng	3.9	Med Russet	3.7	Med-large	3.7	Medium	3.1
12	AC91014-2	W	CO	Dual	E/L	1	CO	96	Obl-Lng	4.0	Med Russet	4.0	Med-large	3.1	Medium	3.2
13	AO92017-6	W	OR	Dual	E/L	1	OR	96	Long	4.1	Med Russet	3.1	Large	4.3	Medium	3.4
14	ATX9202-3RU	W	TX	Dual	E/L	2	OR	90	Oblong	3.4	Med Russet	3.2	Med-large	3.3	Med-late	3.6
15	STAMPEDE RUSSET	RP	TX	Dual	E/L	1	OR	89	Obl-Lng	3.7	Med Hvy Rus	4.2	Med-large	3.5	Med-early	2.7
16	TXNS102	W	TX	Fresh	E/L	3	TX	98	Long	4.2	Med Russet	3.9	Medium	2.7	Med-early	2.7
17	TXNS296	W	TX	Fresh	E/L	3	TX	92	Long	4.3	Med Russet	3.8	Medium	3.0	Early	2.5

¹ P=Purple, R=Red, W=White.

² Numerical values are means of all trial locations.

³ 1.0-2.0=Round, 2.1-2.5=Round-Oblong, 2.6-3.5=Oblong, 3.6-4.0=Oblong-Long, 4.1-5.0=Long

⁴ 1.0-2.0=White, 2.1-3.0=Light Russet, 3.1-4.0=Medium Russet, 4.1-4.5=Medium Heavy Russet, 4.6-5.0 Heavy Russet

⁵ 1.0-2.5=Small, 2.6-3.0=Medium, 3.1-4.0=Medium-Large, 4.1-4.5=Large, 4.6-5.0=Very Large

⁶ 1.0-2.5=Early, 2.6-3.0=Medium-Early, 3.1-3.5=Medium, 3.6-4.0=Medium-Late, 4.1-4.5=Late, 4.6-5.0=Very Late

TABLE 3: 2001 Western Regional Potato Variety Trial - TOTAL YIELD (CWT/A) - EARLY AND LATE HARVEST

No. Clone	Total Yield - Early Harvest (CWT/A)						Total Yield - Late Harvest (CWT/A)													
	CA	OR		TX	WA	Entry	CA	CO	ID		NM	OR		WA	Entry					
	KRN	HRM	MAL	SPR	PAS	Mean/Rank	TUL	SLV	AB	KIM	FRM	HRM	KLM	MAL	OTH	Mean/Rank				
1 R. BURBANK	338	414	568	329	441	418	12	ab	554	462	405	552	328	912	508	601	651	553	11	de
2 RANGER R.	364	481	501	395	355	419	11	ab	514	462	477	546	529	1117	595	607	765	623	3	abc
3 R. NORKOTAH	321	535	472	258	531	423	9	ab	389	389	273	445	296	560	525	477	632	443	15	f
4 SHEPODY	357	493	501	298	427	415	14	ab	-	507	-	-	-	839	-	-	-	-	-	-
5 A8893-1	398	627	619	463	406	503	2	a	566	466	471	653	428	844	612	678	748	607	5	bcd
6 A9014-2	292	531	478	334	447	416	13	b	604	439	502	564	472	821	516	538	782	582	9	bcde
7 A9045-7	308	586	564	337	380	435	7	ab	583	507	493	616	480	1031	583	678	871	649	2	ab
8 A90586-11	-	654	612	406	414	522	1		591	532	473	567	542	1150	639	738	912	683	1	a
9 AC87079-3	423	640	572	293	286	443	6	ab	553	422	396	615	398	1013	483	679	834	599	6	bcd
10 AC87138-4	295	503	573	337	328	407	15	ab	560	562	473	579	408	925	627	636	826	622	4	abc
11 AC89536-5	320	613	530	304	336	421	10	ab	615	453	395	536	481	810	502	605	681	564	10	cde
12 AC91014-2	243	452	410	241	432	355	17	b	397	362	357	379	244	587	436	471	656	432	16	g
13 AO92017-6	335	540	524	297	210	381	16	b	568	397	465	599	472	1008	568	569	720	596	7	bcd
14 ATX9202-3RU	303	620	510	337	382	430	8	ab	572	460	452	659	383	854	636	625	689	592	8	bcde
15 STAMPEDE R.	265	657	518	257	526	445	5	ab	529	-	358	474	362	855	619	548	636	547	12	
16 TXNS102	-	534	478	337	537	471	4		460	-	324	519	325	769	579	510	692	522	14	
17 TXNS296	358	683	532	326	575	495	3	a	448	429	352	474	269	832	608	602	755	530	13	e
Location Means	328	563	527	326	412	435			531	457	417	549	401	878	565	598	741	572		

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

TABLE 4: 2001 Western Regional Potato Variety Trial - YIELD OF U.S. #1'S [CWT/A (upper) and % (lower)] - EARLY AND LATE HARVEST

No. Clone	U.S. No. 1's - Early Harvest (CWT/A) and %							U.S. No. 1's - Late Harvest (CWT/A) and %												
	CA	OR			TX	WA	Entry	CA	CO	ID		NM	OR			WA	Entry			
	KRN	HRM	MAL	SPR	PAS	Mean/Rank	TUL	SLV	AB	KIM	FRM ¹	HRM	KLM	MAL	OTH	Mean/Rank				
1 R. BURBANK	216	291	181	46	226	192	17	d	340	302	221	219	200	545	328	338	388	320	15	e
	63	70	32	14	51	46	17		63	65	55	40	61	60	65	56	60	58	16	
2 RANGER R.	318	396	286	296	297	319	11	abc	429	385	354	329	447	748	434	443	551	458	10	bc
	87	82	58	75	83	77	9		84	83	74	60	84	67	73	73	72	75	11	
3 R. NORKOTAH	286	449	313	217	412	335	8	ab	352	307	196	368	223	456	438	393	521	361	14	de
	89	84	67	84	78	80	5		90	79	72	83	75	82	83	83	82	81	7	
4 SHEPODY	322	448	285	204	303	312	13	bc	-	422	-	-	-	534	-	-	-	-	-	
	90	91	58	68	71	76	11		-	83	-	-	-	64	-	-	-	-	-	
5 A8893-1	366	508	431	372	329	401	1	a	529	393	348	523	349	670	523	588	624	505	2	ab
	92	81	69	80	81	81	4		93	84	74	80	82	79	85	87	83	83	4	
6 A9014-2	266	465	345	280	360	343	6	ab	569	392	380	453	424	703	436	480	677	501	4	ab
	92	88	72	84	80	83	2		94	89	76	80	90	86	84	89	87	86	1	
7 A9045-7	290	541	444	282	342	380	3	ab	497	449	403	448	408	958	509	594	690	551	1	a
	94	92	79	84	90	88	1		85	89	82	73	85	93	87	88	79	85	2	
8 A90586-11	-	541	363	325	306	384	2		437	418	292	345	481	911	502	555	581	502	3	ab
	-	83	60	80	74	74	13		74	78	62	61	89	79	79	75	64	73	14	
9 AC87079-3	376	466	414	211	198	333	9	ab	485	344	287	463	319	797	389	546	726	484	6	abc
	89	73	72	72	69	75	12		87	81	72	75	80	79	81	80	87	80	8	
10 AC87138-4	261	421	379	189	254	301	14	bc	438	402	336	293	324	764	496	529	620	467	8	bc
	86	84	66	56	77	74	14		78	71	71	51	79	83	79	83	75	74	12	
11 AC89536-5	295	480	378	184	262	320	10	abc	566	358	317	407	379	695	405	528	558	468	7	bc
	92	78	72	60	78	76	10		92	79	80	76	79	86	81	87	82	82	6	
12 AC91014-2	209	291	271	142	303	243	16	cd	340	227	276	293	136	336	347	326	524	312	16	e
	85	65	66	59	70	69	15		85	62	77	77	56	57	80	69	80	72	15	
13 AO92017-6	293	464	314	252	159	296	15	bc	471	295	211	339	404	873	471	472	498	448	11	bc
	87	86	59	85	76	79	6		82	74	45	57	86	87	83	83	69	74	13	
14 ATX9202-3RU	269	572	376	272	285	355	5	ab	500	387	297	498	331	765	579	520	585	496	5	ab
	88	92	73	81	75	82	3		87	84	66	76	86	90	91	83	85	83	5	
15 STAMPEDE R.	181	456	411	218	419	337	7	ab	442	-	288	383	309	726	554	466	544	464	9	
	74	69	79	85	80	77	8		83	-	80	81	85	85	89	85	86	84	3	
16 TXNS102	-	381	204	270	411	316	12		402	-	209	379	251	586	475	377	561	405	13	
	-	71	42	80	77	67	16		87	-	65	73	77	76	82	74	81	77	10	
17 TXNS296	323	547	307	294	424	379	4	ab	388	359	234	369	209	648	500	461	594	418	12	cd
	89	80	58	90	74	78	7		86	84	66	78	78	78	82	77	79	79	9	
Location Means	285	454	335	238	311	326			449	363	291	382	325	689	462	476	577	448		
	86	81	63	73	76	75			85	79	70	70	79	78	82	79	78	78		

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

¹FRM graded by size: > 1 7/8".

TABLE 5: 2001 Western Regional Potato Variety Trial - YIELD > 10/12 OZ [CWT/A (upper) & % (lower)] - EARLY AND LATE HARVEST

No. Clone	U.S. No. 1's > 10/12 OZ - Early Harvest (CWT/A) and %							U.S. No. 1's > 10/12 OZ - Late Harvest (CWT/A) and %												
	CA	OR		TX	WA	Entry		CA	CO	ID		NM	OR		WA	Entry				
	KRN	HRM	MAL	SPR	PAS	Mean	Rank	TUL	SLV	AB	KIM	FRM ¹	HRM	KLM	MAL	OTH	Mean	Rank		
1 R. BURBANK	36	69	29	1	23	32	16	b	92	47	79	83	12	214	57	123	112	91	15	ef
	11	17	5	0	5	8	16		17	10	20	15	4	23	11	20	17	15	15	
2 RANGER R.	32	116	107	82	85	84	10	ab	234	116	203	185	48	529	179	187	322	223	4	bc
	9	24	21	21	24	20	8		45	25	43	34	9	47	30	31	42	34	4	
3 R. NORKOTAH	55	63	53	70	119	72	14	ab	159	89	34	170	14	129	225	104	268	132	14	de
	17	12	11	27	22	18	11		41	23	12	38	5	23	43	22	42	28	14	
4 SHEPODY	66	308	91	62	133	132	1	a	-	171	-	-	-	393	-	-	-	-	-	
	18	62	18	21	31	30	1		-	34	-	-	-	47	-	-	-	-	-	
5 A8893-1	74	219	118	109	78	120	4	a	248	73	137	260	26	271	187	277	280	195	8	bcd
	19	35	19	24	19	23	6		44	16	29	40	6	32	31	41	37	31	9	
6 A9014-2	22	174	149	100	72	103	7	a	342	131	241	278	80	372	166	291	297	244	2	ab
	8	33	31	30	16	23	5		57	30	48	49	17	45	32	54	38	41	2	
7 A9045-7	71	275	179	48	83	131	2	a	271	181	263	297	18	644	271	289	508	305	1	a
	23	47	32	14	22	28	2		46	36	53	48	4	62	46	43	58	44	1	
8 A90586-11	-	230	114	115	59	129	3		247	167	140	122	34	577	206	187	328	223	3	bc
	-	35	19	28	14	24	3		42	31	30	22	6	50	32	25	36	31	10	
9 AC87079-3	132	138	113	33	31	89	9	ab	215	69	127	262	41	384	103	153	358	190	9	bcd
	31	22	20	11	11	19	10		39	16	32	43	10	38	21	22	43	29	11	
10 AC87138-4	41	157	127	18	25	73	13	ab	262	68	214	146	42	292	237	260	373	210	6	bc
	14	31	22	5	8	16	14		47	12	45	25	10	32	38	41	45	33	5	
11 AC89536-5	29	209	92	20	67	83	11	ab	339	65	168	247	8	263	107	178	140	168	12	cd
	9	34	17	6	20	17	12		55	14	43	46	2	32	21	29	21	29	12	
12 AC91014-2	30	26	34	5	33	26	17	b	115	15	60	55	0	80	37	33	181	64	16	f
	12	6	8	2	8	7	17		29	4	17	15	0	14	8	7	28	14	16	
13 AO92017-6	26	177	102	29	18	70	15	ab	241	48	104	220	81	441	149	219	300	200	7	bcd
	8	33	19	10	8	16	15		42	12	22	37	17	44	26	39	42	31	8	
14 ATX9202-3RU	40	290	84	84	54	110	6	a	293	120	95	367	28	384	260	206	211	218	5	bc
	13	47	16	25	14	23	7		51	26	21	56	7	45	41	33	31	35	3	
15 STAMPEDE R.	13	237	98	58	185	118	5	a	158	-	107	128	21	247	241	147	215	158	13	
	5	36	19	23	35	23	4		30	-	30	27	6	29	39	27	34	28	13	
16 TXNS102	-	91	48	80	100	80	12		222	-	72	207	26	298	235	119	275	182	11	
	-	17	10	24	19	17	13		48	-	22	40	8	39	41	23	40	33	6	
17 TXNS296	21	178	88	108	92	97	8	a	193	107	88	167	12	342	243	175	330	184	10	bcd
	6	26	16	33	16	19	9		43	25	25	35	4	41	40	29	44	32	7	
Location Means	46	174	96	60	74	91			227	98	133	200	31	345	181	184	281	187		
	14	30	18	18	17	20			42	21	31	36	7	38	31	30	37	30		

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

¹FRM graded by size: > 3".

TABLE 6: 2001 Western Regional Potato Variety Trial - YIELD < 4 OZ [CWT/A (upper) & % (lower)] - EARLY AND LATE HARVEST

		Yield < 4 OZ - Early Harvest (CWT/A) and %							Yield < 4 OZ - Late Harvest (CWT/A) and %												
No. Clone		CA	OR		TX	WA	Entry		CA	CO	ID		NM	OR		WA	Entry				
		KRN	HRM	MAL	SPR	PAS	Mean/Rank		TUL	SLV	AB	KIM	FRM ¹	HRM	KLM	MAL	OTH		Mean/Rank		
1	R. BURBANK	34	70	58	53	57	54	3	ab	42	151	38	30	129	118	58	47	78	77	1	a
		10	17	10	16	13	13	5		8	33	9	5	39	13	11	8	12	15	2	
2	RANGER R.	30	54	26	40	30	36	13	bcd	22	56	17	10	82	40	26	27	40	36	14	cd
		8	11	5	10	8	9	14		4	12	4	2	16	4	4	5	5	6	15	
3	R. NORKOTAH	25	73	23	28	54	41	11	bcd	16	70	47	13	74	67	16	31	35	41	11	bcd
		8	14	5	11	10	9	12		4	18	17	3	25	12	3	7	6	10	3	
4	SHEPODY	21	21	12	47	23	25	17	d	-	48	-	-	-	21	-	-	-	-	-	-
		6	4	2	16	5	7	16		-	9	-	-	-	3	-	-	-	-	-	-
5	A8893-1	24	62	30	76	48	48	9	abcd	28	71	35	27	79	80	23	25	47	46	6	bc
		6	10	5	16	12	10	10		5	15	7	4	18	9	4	4	6	8	10	
6	A9014-2	25	37	17	42	60	36	12	bcd	16	41	39	16	49	60	25	23	48	35	15	cd
		9	7	4	13	13	9	13		3	9	8	3	10	7	5	4	6	6	14	
7	A9045-7	13	25	23	40	26	25	16	cd	19	47	15	9	73	27	9	24	19	27	16	d
		4	4	4	12	7	6	17		3	9	3	1	15	3	2	4	2	5	16	
8	A90586-11	-	57	37	72	49	54	4		25	67	38	23	62	41	32	49	51	43	9	bcd
		-	9	6	18	12	11	8		4	13	8	4	11	4	5	7	6	7	13	
9	AC87079-3	26	89	36	52	51	51	5	abc	44	71	56	24	79	83	44	38	43	53	4	b
		6	14	6	18	18	12	6		8	17	14	4	20	8	9	6	5	10	5	
10	AC87138-4	31	51	35	52	55	45	10	bcd	25	157	23	14	84	85	29	27	33	53	5	b
		10	10	6	15	17	12	7		5	28	5	2	21	9	5	4	4	9	7	
11	AC89536-5	24	63	26	105	31	50	8	abcd	32	87	38	19	102	74	41	34	74	56	3	b
		8	10	5	35	9	13	4		5	19	10	4	21	9	8	6	11	10	4	
12	AC91014-2	33	115	29	94	90	72	1	a	37	132	48	33	108	106	65	46	73	72	2	a
		14	25	7	39	21	21	1		9	36	13	9	44	18	15	10	11	18	1	
13	AO92017-6	27	54	22	41	25	34	15	bcd	29	93	40	19	68	59	42	17	44	46	7	bc
		8	10	4	14	12	10	11		5	23	9	3	14	6	7	3	6	9	9	
14	ATX9202-3RU	19	28	36	49	41	35	14	bcd	20	40	62	11	53	47	18	30	45	36	13	cd
		6	5	7	15	11	9	15		4	9	14	2	14	6	3	5	6	7	12	
15	STAMPEDE R.	84	56	40	30	44	51	6	abc	40	-	23	25	53	63	24	36	54	40	12	
		32	9	8	12	8	14	3		8	-	6	5	15	7	4	6	9	7	11	
16	TXNS102	-	105	36	58	63	66	2		20	-	46	15	74	75	24	48	48	44	8	
		-	20	7	17	12	14	2		4	-	14	3	23	10	4	9	7	9	6	
17	TXNS296	35	69	32	31	83	50	7	abcd	18	60	43	14	60	65	33	31	57	42	10	bcd
		10	10	6	9	14	10	9		4	14	12	3	22	8	5	5	8	9	8	
Location Means		30	61	30	53	49	45			27	79	38	19	77	65	32	33	49	47		
		10	11	6	17	12	11			5	18	10	4	21	8	6	6	7	9		

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

¹FRM graded by size: <1 7/8".

TABLE 7: 2001 Western Regional Potato Variety Trial - SPECIFIC GRAVITY - EARLY AND LATE HARVEST

No. Clone	Specific Gravity - Early Harvest						Specific Gravity - Late Harvest									
	CA KRN	OR HRM MAL		TX SPR	WA PAS	Entry Mean/Rank	CA TUL	CO SLV	ID AB KIM		NM FRM	OR HRM KLM MAL		WA OTH	Entry Mean/Rank	
1 R. BURBANK	1.087	1.067	1.088	1.055	1.082	1.076 13 ab	1.083	1.088	1.078	1.081	1.081	1.075	1.085	1.081	1.079	1.081 11 cd
2 RANGER R.	1.083	1.064	1.092	1.072	1.081	1.079 8 ab	1.076	1.090	1.091	1.084	1.092	1.079	1.088	1.102	1.088	1.088 5 ab
3 R. NORKOTAH	1.085	1.062	1.078	1.059	1.077	1.072 14 bc	1.066	1.077	1.071	1.067	1.076	1.058	1.072	1.074	1.075	1.071 15 e
4 SHEPODY	1.089	1.061	1.090	1.068	1.078	1.077 11 ab	-	1.087	-	-	-	1.067	-	-	-	-
5 A8893-1	1.086	1.070	1.089	1.069	1.077	1.078 9 ab	1.081	1.087	1.079	1.082	1.078	1.070	1.081	1.089	1.078	1.081 12 d
6 A9014-2	1.090	1.069	1.095	1.062	1.082	1.080 6 ab	1.080	1.093	1.085	1.081	1.091	1.073	1.081	1.091	1.089	1.085 6 bc
7 A9045-7	1.085	1.070	1.094	1.067	1.080	1.079 7 ab	1.077	1.096	1.088	1.088	1.089	1.081	1.086	1.101	1.084	1.088 4 ab
8 A90586-11	-	1.068	1.099	1.082	1.083	1.083 1	1.081	1.102	1.090	1.087	1.095	1.078	1.089	1.105	1.087	1.090 1 a
9 AC87079-3	1.095	1.073	1.096	1.058	1.082	1.081 4 a	1.084	1.093	1.081	1.094	1.088	1.078	1.088	1.101	1.083	1.088 3 ab
10 AC87138-4	1.080	1.063	1.097	1.060	1.083	1.077 12 ab	1.079	1.095	1.084	1.079	1.086	1.070	1.085	1.094	1.084	1.084 7 cd
11 AC89536-5	1.089	1.069	1.089	1.068	1.083	1.080 5 ab	1.072	1.094	1.077	1.084	1.081	1.070	1.089	1.097	1.086	1.083 8 cd
12 AC91014-2	1.086	1.072	1.100	1.068	1.086	1.082 2 a	1.084	1.101	1.086	1.087	1.088	1.071	1.092	1.098	1.086	1.088 2 ab
13 AO92017-6	1.089	1.069	1.093	1.072	1.083	1.081 3 a	1.077	1.095	1.084	1.084	1.086	1.076	1.087	1.090	1.072	1.083 9 cd
14 ATX9202-3RU	1.085	1.066	1.094	1.067	1.079	1.078 10 ab	1.076	1.097	1.077	1.081	1.083	1.071	1.083	1.085	1.078	1.081 10 cd
15 STAMPEDE R.	1.048	1.058	1.069	1.061	1.067	1.061 17 d	1.068	-	1.066	1.061	1.074	1.057	1.070	1.074	1.064	1.067 16
16 TXNS102	-	1.065	1.074	1.057	1.078	1.069 15	1.069	-	1.074	1.072	1.079	1.063	1.075	1.074	1.075	1.072 14
17 TXNS296	1.058	1.064	1.077	1.061	1.077	1.068 16 cd	1.068	1.084	1.073	1.068	1.077	1.060	1.074	1.077	1.072	1.073 13 e
Location Means	1.082	1.066	1.089	1.065	1.080	1.076	1.076	1.092	1.080	1.080	1.084	1.070	1.083	1.090	1.080	1.081

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

TABLE 8: 2001 Western Regional Potato Variety Trial - AVERAGE TUBER SIZE, AND TUBER SHAPE

No. Clone	Average Tuber Size (oz)										Tuber Shape (1-5 length/width ratio: 1=round, 5=long)													
	Early Trial					Late Trial					Early Trial						Late Trial							
	OR	TX	WA	Mean	ID	OR	WA	Mean	CA	OR	TX	WA	Mean	CA	CO	ID	OR	WA	Mean					
	HRM	SPR	PAS		AB	KIM	HRM		OTH	KRN	HRM	MAL		SPR	PAS	TUL	SLV	AB		KIM	HRM	KLM	MAL	OTH
1 R. BURBANK	5.5	4.5	6.6	5.5	7.4	10.3	7.5	7.3	8.1	3.5	5.0	4.3	5.0	3.3	4.2	4.0	5.0	4.8	4.0	5.0	5.0	4.3	4.0	4.5
2 RANGER R.	6.4	6.0	7.3	6.6	10.2	11.6	12.3	10.2	11.1	3.0	4.7	3.5	5.0	3.7	4.0	4.5	5.0	5.0	5.0	5.0	5.0	3.8	4.5	4.7
3 R. NORKOTAH	5.6	6.3	7.2	6.4	5.6	9.7	7.1	9.5	8.0	3.7	5.0	3.5	5.0	4.7	4.4	4.3	5.0	4.0	4.3	4.6	5.0	3.3	4.0	4.3
4 SHEPODY	9.7	6.0	9.2	8.3	-	-	12.7	-	-	4.0	4.4	2.8	4.0	3.7	3.8	-	5.0	-	-	4.2	-	-	-	-
5 A8893-1	6.1	5.9	6.8	6.3	7.8	9.6	7.9	8.7	8.5	4.0	3.9	2.8	5.0	3.3	3.8	3.5	4.0	3.8	3.8	3.7	3.5	2.8	4.0	3.6
6 A9014-2	7.0	6.5	6.4	6.6	9.2	10.9	10.0	8.7	9.7	4.0	4.3	3.0	4.0	4.0	3.9	3.8	5.0	4.0	3.8	4.1	5.0	2.3	4.0	4.0
7 A9045-7	8.2	5.3	7.4	7.0	11.2	12.5	11.9	12.2	11.9	4.0	4.0	2.3	5.0	4.0	3.9	4.0	4.0	4.3	4.0	3.9	5.0	2.3	4.3	4.0
8 A90586-11	7.1	5.3	6.6	6.3	8.7	8.9	10.9	10.4	9.7	-	4.5	3.3	5.0	4.0	4.2	4.0	5.0	4.3	4.5	4.9	5.0	2.8	4.3	4.3
9 AC87079-3	5.8	5.0	5.9	5.6	6.8	10.6	8.6	9.4	8.9	4.0	3.6	2.8	5.0	3.0	3.7	4.0	4.0	4.5	3.8	3.9	3.3	2.8	4.0	3.8
10 AC87138-4	6.6	4.6	5.7	5.7	10.3	11.4	7.7	11.2	10.1	3.5	5.0	3.5	4.0	4.0	4.0	4.3	5.0	4.5	4.8	4.8	5.0	2.3	4.0	4.3
11 AC89536-5	6.9	4.0	7.2	6.0	7.7	10.7	7.5	6.9	8.2	3.3	4.2	3.0	5.0	3.3	3.8	4.0	4.0	5.0	4.3	3.5	3.8	3.0	4.0	4.0
12 AC91014-2	4.7	3.6	5.2	4.5	6.4	6.8	6.3	7.3	6.7	4.0	3.9	3.3	4.0	3.2	3.7	4.0	5.0	5.0	4.0	5.0	4.3	3.0	4.0	4.3
13 AO92017-6	6.7	5.2	6.3	6.1	8.2	10.9	9.5	9.9	9.6	4.0	4.7	3.0	5.0	4.3	4.2	4.3	4.0	4.3	4.0	4.9	4.5	2.5	4.0	4.1
14 ATX9202-3RU	8.3	6.2	6.9	7.1	7.0	13.8	9.3	8.2	9.6	2.8	3.4	2.0	5.0	3.0	3.2	3.5	4.0	3.3	3.5	3.6	4.5	2.0	3.0	3.4
15 STAMPEDE R.	7.2	5.4	8.0	6.9	8.0	8.1	8.0	7.8	8.0	4.5	4.0	2.3	3.5	3.7	3.6	4.0	-	4.5	3.8	3.5	5.0	2.0	3.5	3.8
16 TXNS102	5.3	5.5	6.7	5.9	6.6	10.3	8.6	8.7	8.6	-	5.0	3.3	5.0	4.0	4.3	4.0	-	4.5	4.0	4.6	5.0	3.0	4.0	4.2
17 TXNS296	6.4	6.6	6.3	6.4	7.2	9.8	8.8	9.1	8.7	4.0	5.0	3.0	5.0	4.7	4.3	4.3	5.0	3.8	3.8	4.9	5.0	3.0	4.0	4.2
Location Means	6.7	5.4	6.8	6.3	8.0	10.4	9.1	9.1	9.1	3.8	4.4	3.0	4.7	3.8	3.9	4.0	4.6	4.4	4.1	4.4	4.6	2.8	4.0	4.1

TABLE 9: 2001 Western Regional Potato Variety Trial - EXTERNAL DEFECTS MEANS OF LOCATIONS - GROWTH CRACKS, SECOND GROWTH, SHATTER BRUISE, AND SCAB¹

No. Clone	Growth Cracks		Second Growth		Shatter Bruise			Scab	
	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	AB ²	Early Trial	Late Trial
1 R. BURBANK	3.9 PAS 2.7	3.5 KIM 2.3	4.0	2.8 OTH 1.3 KIM 2.5	4.8	4.7	2.8	5.0	4.9
2 RANGER R.	4.6	3.9	4.7	4.1	4.8	4.7	3.4	5.0	4.7
3 R. NORKOTAH	5.0	4.7	4.5	4.9	4.9	4.6	3.5	5.0	5.0
4 SHEPODY	4.8	4.5	3.7 SPR 3.0	3.5	4.8	-	-	4.5	-
5 A8893-1	5.0	4.5	4.7	4.6	4.9	4.4	3.4	5.0	4.9
6 A9014-2	4.9	4.8	3.3 SPR 1.0	4.8	4.7	4.1	3.3	5.0	4.9
7 A9045-7	4.9	3.9 AB 2.8	4.3	4.2	4.9	4.7	3.6	5.0	4.8
8 A90586-11	4.9	4.5	4.6	3.5 OTH 1.5	4.9	4.6	3.6	4.8	4.3 AB 2.8
9 AC87079-3	4.7	4.6	4.7	4.2	4.8	4.5	3.3	5.0	4.9
10 AC87138-4	4.6	4.2	4.3 SPR 3.0	3.9	4.8	4.8	3.7	4.5	5.0
11 AC89536-5	4.6	4.4	4.3	4.4	4.4	4.5	3.4	5.0	4.9
12 AC91014-2	4.8	4.7	4.7	4.9	4.5	4.3	3.1	5.0	4.9
13 AO92017-6	4.9	3.9 OTH 1.5	4.7	4.0	4.9	4.8	3.7	5.0	4.9
14 ATX9202-3RU	4.8	3.9 SLV 2.0	4.8	4.5	4.8	4.2 MAL 2.8	3.3	5.0	4.9
15 STAMPEDE R.	3.7 HRM 2.5	4.3	4.6	4.8	3.9	3.3 HRM 1.0 MAL 2.8	3.4	4.9	4.8
16 TXNS102	4.8	4.8	4.7	4.7	4.8	4.8	3.5	5.0	4.9
17 TXNS296	4.9	4.8	4.7	4.6	4.8	4.8	3.1	5.0	4.9
Entry Means	4.7	4.3	4.4	4.2	4.7	4.5	3.4	4.9	4.8

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: 2001 Western Regional Potato Variety Trial - INTERNAL DEFECTS MEANS OF LOCATIONS - HOLLOW HEART/BROWN CENTER, INTERNAL BROWN SPOT, VASCULAR DISCOLORATION/NET NECROSIS, AND BLACKSPOT¹

No. Clone	Percent Hollow Heart Plus Brown Center		Percent Internal Brown Spot		Percent Net Necrosis/ Vascular Discoloration		Blackspot Bruise [1-5(none)]		ID ²
	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	
1 R. BURBANK	13	10 OTH 43	3	2	1	1	5.0	3.5 SLV 2.7	3.0
2 RANGER R.	0	0	6 KRN 25	0	32 SPR 90	1	5.0	3.7	2.7
3 R. NORKOTAH	0	4	6 KRN 25	0	4	1	4.8	4.5	3.0
4 SHEPODY	1	1	7 KRN 25	0	39 KRN 33 SPR 80	0	5.0	4.1	-
5 A8893-1	4	8 AB 20 KLM 30	0	0	13 SPR 40	1	5.0	4.4	3.0
6 A9014-2	3	16 AB 83	2	0	7	1	5.0	3.9	3.3
7 A9045-7	5 SPR 20	1	6	0	17 SPR 50	0	5.0	3.8	3.1
8 A90586-11	0	1	0	1	10	2	5.0	4.4	2.7
9 AC87079-3	3	26 AB 70 KLM 70	5	0	12 SPR 30	8 TUL 25	5.0	3.4 SLV 2.9	2.9
10 AC87138-4	4	15 AB 40 KLM 55	4	0	19 SPR 50	0	4.8	3.5	2.1
11 AC89536-5	0	8 AB 23 OTH 28	4	0	4	0	5.0	4.3	3.4
12 AC91014-2	3	16 AB 48 KLM 35	3	0	0	0	5.0	4.1	3.5
13 AO92017-6	0	2	0	1	10 SPR 30	0	5.0	3.8	2.8
14 ATX9202-3RU	5 SPR 20	0	7	1	7	5	5.0	3.7	2.5
15 STAMPEDE R.	3	1	3	0	0	0	5.0	4.9	2.7
16 TXNS102	0	9 AB 38	0	0	15 SPR 30	0	5.0	4.6	2.9
17 TXNS296	3	5	3	0	12	1	5.0	4.6	3.0
Entry Means	3	7	3	0	12	1	5.0	4.1	2.9

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

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

TABLE 11: 2001 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	CO	ID			WA	Entry	ID		OR	WA	Entry	ID		OR			Entry		
	SLV	HRM	MAL	PAS	Mean	SLV	AB	KIM	HRM	MAL	OTH ¹	Mean	AB	KIM	KL	M	OTH	Mean	AB	KIM	HRM	KL	M	MAL	Mean
	L	E	E	E		L	L	L	L	L		L	L	L	L	L		L	L	E	L	L	E	L	
1 R. BURBANK	2.0	0.2	0.5	0.0	0.7	1.0	1.1	1.2	1.3	1.5	4.0	1.7	3.2	3.0	1.0	4.0	2.8	67	25	0	0	50	10	45	28
2 RANGER R.	2.0	0.1	0.0	0.0	0.5	1.0	1.2	1.3	0.9	0.0	4.0	1.4	2.5	2.8	1.5	4.0	2.7	34	29	0	0	0	0	0	9
3 R. NORKOTAH	2.0	0.1	0.5	2.0	1.2	3.0	1.2	1.5	1.3	2.0	-	1.8	3.7	3.3	4.0	-	3.7	54	25	0	0	0	3	23	15
4 SHEPODY	1.0	0.0	0.0	0.0	0.3	3.0	-	-	2.1	-	-	2.5	-	-	-	-	-	-	-	0	38	-	0	-	13
5 A8893-1	1.0	0.0	0.0	1.0	0.5	1.0	0.4	1.5	0.3	0.0	4.0	1.2	2.5	2.9	0.0	4.0	2.4	4	9	0	0	0	0	0	2
6 A9014-2	1.0	0.0	0.0	0.0	0.3	1.0	0.2	0.4	0.0	0.0	3.0	0.8	1.4	2.0	1.5	2.5	1.9	17	4	0	0	0	0	3	3
7 A9045-7	2.0	0.5	0.0	2.0	1.1	3.0	1.1	1.8	1.2	0.0	4.0	1.8	3.1	3.0	2.0	4.0	3.0	21	4	0	0	0	0	0	4
8 A90586-11	2.0	0.3	0.0	0.0	0.6	2.0	0.9	1.5	1.3	0.5	4.0	1.7	2.9	3.0	1.0	4.0	2.7	21	9	0	8	0	0	13	7
9 AC87079-3	1.0	0.0	0.0	2.0	0.8	2.0	1.2	1.8	1.1	0.0	-	1.2	3.1	3.6	2.0	-	2.9	42	50	0	8	10	0	0	16
10 AC87138-4	1.0	0.1	0.0	1.0	0.5	1.0	0.7	1.2	1.1	0.0	4.0	1.3	3.0	3.0	1.0	4.0	2.8	42	63	0	3	0	0	5	16
11 AC89536-5	1.0	0.2	0.0	0.0	0.3	3.0	1.2	0.8	0.6	0.0	-	1.1	2.8	2.5	2.0	-	2.4	17	13	0	3	0	0	0	5
12 AC91014-2	1.0	0.0	0.0	0.0	0.3	1.0	0.2	0.3	0.0	0.0	3.0	0.8	2.0	2.5	1.0	4.0	2.4	21	4	0	0	30	0	0	8
13 AO92017-6	2.0	0.1	0.0	0.0	0.5	2.0	0.8	1.0	0.9	0.0	4.0	1.5	3.0	3.1	1.5	4.0	2.9	17	9	0	0	0	0	10	5
14 ATX9202-3RU	2.0	0.0	0.0	0.0	0.5	2.0	0.5	0.6	0.4	0.0	2.0	0.9	2.6	2.1	0.0	4.0	2.2	4	17	0	0	0	0	0	3
15 STAMPEDE R.	-	0.2	0.5	0.0	0.3	-	1.2	1.5	1.9	1.0	3.0	1.7	3.7	4.0	1.0	4.0	3.2	9	13	0	5	0	0	3	4
16 TXNS102	-	0.1	0.5	2.0	0.3	-	1.2	2.1	1.6	1.5	-	1.6	2.9	3.4	4.0	-	3.4	46	62	0	3	0	3	23	19
17 TXNS296	2.0	0.1	0.5	2.0	1.2	3.0	1.3	1.7	1.3	1.5	-	1.8	3.5	3.8	3.5	-	3.6	62	50	0	0	0	5	30	21
Location Means	1.5	0.1	0.1	0.7	0.6	1.9	0.9	1.3	1.0	0.5	3.5	1.5	2.9	3.0	1.7	3.9	2.8	30	24	0	4	6	1	10	10

¹Samples stored @ 44F.

Storage protocol prior to frying

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

Hermiston - ~2 weeks to 45F, and ~6 weeks @45F.

Kimberly - ~3 weeks to 40F and 45F from 55F, and ~7 weeks @ 40F and 45F.

Klamath Falls - 1 week @ 48F, 1 week to 40F, and 3 weeks @ 40F.

Malheur (Early) - ~8 weeks @ 53F, and ~2 weeks @ 45F.

Malheur (Late) - ~1 week @ 53F, and ~3 weeks @ 45F.

Othello - ~7 weeks @ 44F; ~8 weeks @40F.

San Luis Valley - ~3 weeks @ 50F, and ~ 8 weeks @ 44F.

* Comprehensive post harvest evaluations of entries can be found in the 2001 Potato Cultivar Yield & Post Harvest Quality Evaluations - Washinton State University.
Contact: Drs. Bob Thornton or Rick Knowles.

TABLE 12: 2001 Western Regional Potato Variety Trial - DISEASE EVALUATION AND METRIBUZIN REACTION

No. Clone	Vert. Wilt/Early Dying		Early Blight ¹	Late Blight				Common Scab ¹	% Leafroll		Prosser ⁵		EB Tuber %	Fusarium		Erwinia Soft Rot ¹	Metribuzin Reaction ⁶
	AB ¹	HRM ²		Corvallis ³		Mount Vernon ⁴			Net Necrosis	Corky		Dry Rot ¹		F _{S(0-5)} F _C			
	(0-9)	(1-9)	(1-9)	% by Wt.	AUDPC	% by Wt.	AB ¹	HRM ²		Rngspt	knot		(0-5)		AB		
1 R. BURBANK	8.8	6.5	6.0	8.0	10.0	578	0.0	0	6	45.0	S	S	0	2.1	4.3	3.7	R
2 RANGER R.	3.5	5.7	7.0	8.0	80.0	-	-	0	0	42.5	S	S	0	2.9	2.9	2.7	R
3 R. NORKOTAH	9.0	9.0	9.0	8.8	50.0	-	-	0	2	20.0	S	S	0	1.0	3.9	4.1	R
4 SHEPODY	5.3	7.2	8.8	-	-	-	-	3	0	45.0	S	S	0	1.5	1.2	4.1	S
5 A8893-1	9.0	8.2	8.0	9.0	22.5	548	1.7	0	2	37.5	S	S	17	1.0	1.5	4.1	R
6 A9014-2	3.8	4.7	8.0	8.5	22.5	573	1.5	0	3	0.0	R	S	0	1.2	1.3	2.1	R
7 A9045-7	2.5	6.0	7.0	7.3	7.5	355	0.8	2	0	37.5	S	S	0	3.7	2.7	3.9	R
8 A90586-11	2.3	4.2	6.3	4.5	12.5	285	0.2	10	3	27.5	R	S	0	2.6	3.5	3.6	R
9 AC87079-3	7.0	5.0	8.7	7.3	0.0	510	0.0	0	0	55.0	S	S	0	2.3	3.4	2.3	R
10 AC87138-4	4.3	4.2	7.5	8.3	22.5	500	0.0	0	0	22.5	S	S	33	1.7	3.4	3.1	R
11 AC89536-5	6.5	6.0	8.3	-	-	346	3.0	0	6	12.5	S	S	0	1.9	1.7	3.0	R
12 AC91014-2	6.5	7.2	8.5	9.0	17.5	565	0.1	0	-	20.0	S	S	-	-	-	2.7	R
13 AO92017-6	6.0	6.2	7.7	7.5	52.5	550	10.7	0	7	22.5	S	S	17	1.2	2.4	3.8	R
14 ATX9202-3RU	5.8	8.0	8.3	8.8	40.0	430	5.4	0	19	37.5	S	S	0	4.3	2.7	3.1	R
15 STAMPEDE R.	4.8	8.0	8.3	-	-	466	2.0	0	-	15.0	-	-	-	-	-	-	R
16 TXNS102	7.8	8.7	6.5	8.8	60.0	1066	1.4	0	9	50.0	-	-	0	1.0	2.3	3.1	-
17 TXNS296	7.5	8.7	8.0	8.8	37.5	428	0.6	0	8	27.5	-	-	0	1.0	1.8	3.7	-
Entry Means	5.9	6.7	7.8	8.0	31	514	2.0	0.9	4	30.4			4	2.0	2.6	3.3	
LSD (.05)	2.5		1.3			217		8.0						0.9	1.0	1.7	

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

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

³ Evaluations made at Corvallis, Oregon by Al Mosley; scale as indicated with highest number being most severe.

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

⁵ Evaluations made at Prosser, Washington by Chuck Brown: R=resistant, MR=moderately resistant, MS=moderately susceptible, S=suceptible.

⁶ Evaluations made at Aberdeen, Idaho by Steve Love: R=resistant, MR=moderately resistant, MS=moderately susceptible, S=suceptible.

TABLE 13: 2001 Western Regional Potato Variety Trial - SOLIDS, DEXTROSE, SUCROSE, PROTEIN, VITAMIN C,
AND GLYCOALKALOIDS - ABERDEEN

No. Clone	Solids Oven Dry (%)	Sugars		Protein (%DWB) ¹	Vitamin C (mg/100g FWB) ¹	Glycoalkaloids ² (mg/100gFWB) ¹
		Dextrose (%FWB) ¹	Sucrose (%FWB) ¹			
1 RUSSET BURBANK	20.0	0.08	0.16	5.9	18.6	2.7
2 RANGER RUSSET	23.3	0.11	0.22	5.8	34.1	5.7
3 RUSSET NORKOTAH	19.7	0.08	0.13	5.7	23.5	3.3
5 A8893-1	22.0	0.07	0.19	7.3	25.2	6.9
6 A9014-2	23.8	0.05	0.39	6.8	31.7	1.8
7 A9045-7	23.7	0.11	0.17	5.0	25.6	1.6
8 A90586-11	24.2	0.10	0.21	5.3	37.6	3.9
9 AC87079-3	21.5	0.09	0.22	7.2	28.0	4.3
10 AC87138-4	22.4	0.13	0.20	5.6	23.7	4.3
11 AC89536-5	21.1	0.09	0.18	6.4	34.1	4.0
12 AC91014-2	23.9	0.05	0.28	7.6	35.0	3.0
13 AO92017-6	21.4	0.10	0.17	6.0	22.8	3.9
14 ATX9202-3RU	21.0	0.03	0.21	6.2	29.8	18.3
15 STAMPEDE RUSSET	19.4	0.07	0.14	5.2	26.6	2.0
16 TXNS102	20.6	0.07	0.17	5.9	22.0	2.2
17 TXNS296	21.1	0.09	0.15	5.9	20.7	2.6
Entry Means	21.8	0.08	0.20	6.1	27.4	4.4

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

² Glycoalkaloids: The 2001 Lenape check from Aberdeen was 25.7 mg/100g

TABLE 14: 2001 Western Regional Potato Variety Trial - MERIT SCORES [1-5(best)]

No. Clone	Process						Fresh										
	CO	ID		OR		Entry	CA		CO	ID		OR		TX	Entry		
	SLV	AB	KIM	HRM	HRM		KRN	TUL	SLV	AB	KIM	HRM	HRM	SPR			
L	L	L	E	L	Mean/Rank	E	L	L	L	L	E	L	E	Mean/Rank			
1 R. BURBANK	4.0	3.0	3.5	2.0	2.0	2.9	12	2.0	2.3	3.0	2.0	2.0	1.0	1.0	2.0	1.9	18
2 RANGER R.	5.0	3.7	3.7	2.0	4.0	3.7	6	3.3	2.5	4.0	2.3	2.5	1.0	1.0	3.2	2.5	15
3 R. NORKOTAH	2.0	2.0	1.8	2.0	2.0	2.0	16	3.8	4.0	2.0	3.3	4.0	4.0	4.0	3.4	3.6	4
4 SHEPODY	2.0	-	-	3.0	1.0	2.0	15	3.7	-	5.0	-	-	1.0	1.0	2.8	2.7	12
5 A8893-1	5.0	3.5	3.7	4.0	3.0	3.8	4	3.5	3.0	4.0	3.3	3.8	1.0	3.0	3.4	3.1	9
6 A9014-2	4.0	3.0	4.2	4.0	5.0	4.0	2	3.0	3.8	3.0	3.5	4.0	4.0	4.0	3.7	3.6	2
7 A9045-7	3.0	3.7	4.0	5.0	4.0	3.9	3	2.0	3.5	5.0	3.5	4.0	5.0	3.0	2.7	3.6	3
8 A90586-11	5.0	3.7	4.0	4.0	4.0	4.1	1	-	2.0	5.0	2.0	2.0	1.0	2.0	2.8	2.4	17
9 AC87079-3	3.0	2.0	2.5	3.0	3.0	2.7	13	3.5	3.3	2.0	2.8	3.0	2.0	2.0	2.4	2.6	14
10 AC87138-4	5.0	3.1	2.7	3.0	4.0	3.6	9	3.0	3.0	5.0	3.0	2.0	5.0	4.0	2.5	3.4	8
11 AC89536-5	3.0	3.0	4.0	5.0	3.0	3.6	8	3.0	4.5	5.0	3.8	4.0	3.0	2.0	2.9	3.5	5
12 AC91014-2	4.0	3.7	4.0	5.0	2.0	3.7	5	3.5	4.3	3.0	3.3	3.0	2.0	1.0	2.6	2.8	11
13 AO92017-6	3.0	3.7	3.6	3.0	5.0	3.7	7	3.0	2.8	2.0	1.8	3.0	2.0	2.0	2.9	2.4	16
14 ATX9202-3RU	3.0	3.6	3.7	2.0	3.0	3.1	10	2.5	3.0	3.0	2.5	3.3	1.0	2.0	4.0	2.7	13
15 STAMPEDE R.	-	1.0	1.0	1.0	1.0	1.0	18	-	4.0	-	4.3	4.0	3.0	2.0	3.4	3.5	7
16 TXNS102	-	2.5	2.0	2.0	2.0	2.1	14	-	4.0	-	2.8	3.5	3.0	4.0	3.5	3.5	6
17 TXNS296	1.0	2.2	1.8	2.0	2.0	1.8	17	-	3.5	3.0	2.5	4.3	5.0	4.0	3.6	3.7	1
Location Means	3.5	3.0	3.1	3.1	2.9	3.0		3.1	3.3	3.6	2.9	3.3	2.6	2.5	3.0	3.0	

TABLE 15: 2001 Western Regional Potato Variety Trial - ENTRY SUMMARY¹

No.	Clone	Year in Trial	Use	Total Yield ²	US#1's Yield ²	% US#1's ²	Tuber Size (oz)		Tuber Shape	Specific Gravity ²	Fry 45 Color	Merit Score		Noted Weaknesses	Disposition 2001
							Early	Late				Process	Fresh		
1	R. BURBANK	-	Dual	553	320	58	5.5	8.1	Long	1.081	1.7	2.9	1.9		Check
2	RANGER R.	-	Dual	623	458	75	6.6	11.1	Long	1.088	1.4	3.7	2.5		Check
3	R. NORKOTAH	-	Fresh	443	361	81	6.4	8.0	Long	1.071	1.8	2.0	3.6		Check
4	SHEPODY	-	Proc	415	312	76	8.3	-	Obl-Lng	1.077	2.5	2.0	2.7		Check
5	A8893-1	3	Dual	607	505	83	6.3	8.5	Obl-Lng	1.081	1.2	3.8	3.1	EB - Tuber	
6	A9014-2	3	Dual	582	501	86	6.6	9.7	Obl-Lng	1.085	0.8	4.0	3.6	2nd Growth (Early), HH (Late)	
7	A9045-7	2	Dual	649	551	85	7.0	11.9	Obl-Lng	1.088	1.8	3.9	3.6	GC's (Late)	
8	A90586-11	2	Dual	683	502	73	6.3	9.7	Long	1.090	1.7	4.1	2.4	2nd Growth (Late), Scab (Late)	
9	AC87079-3	3	Fresh	599	484	80	5.6	8.9	Obl-Lng	1.088	1.2	2.7	2.6	HH (Late), NN/VD, Blackspot	
10	AC87138-4	3	Dual	622	467	74	5.7	10.1	Long	1.084	1.3	3.6	3.4	HH (Late), Blackspot, Sugar Ends, EB-Tuber	
11	AC89536-5	2	Fresh	564	468	82	6.0	8.2	Obl-Lng	1.083	1.1	3.6	3.5		
12	AC91014-2	1	Dual	432	312	72	4.5	6.7	Obl-Lng	1.088	0.8	3.7	2.8	Smaller tubersize, HH (Late)	
13	AO92017-6	1	Dual	596	448	74	6.1	9.6	Long	1.083	1.5	3.7	2.4	GC's (Late), EB-Tuber	
14	ATX9202-3RU	2	Dual	592	496	83	7.1	9.6	Oblong	1.081	0.9	3.1	2.7	GC's (Late), Higher glyco's, NN, Fusarium (F _s)	
15	STAMPEDE R.	1	Dual	547	464	84	6.9	8.0	Obl-Lng	1.067	1.7	1.0	3.5	Low gravity, GC's (Early), Shatter (Late)	
16	TXNS102	3	Fresh	522	405	77	5.9	8.6	Long	1.072	1.6	2.1	3.5		
17	TXNS296	3	Fresh	530	418	79	6.4	8.7	Long	1.073	1.8	1.8	3.7		
Entry Means				562	440	78	6.3	9.1		1.081	1.5	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.

TABLE 16: 2001 Western Regional Potato Variety Trial - 3 YEAR SUMMARY OF GRADUATING ENTRIES

Clone	1999						2000						2001					
	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	
A8893-1	572 (5/14)	452 79	1.080	1.1	3.1	3.6	534 (8/14)	431 80	1.079	0.7	3.1	3.1	607 (5/16)	505 83	1.081	0.6	3.1	3.8
A9014-2	490 (11/14)	412 84	1.085	0.1	3.4	4.5	471 (12/14)	400 84	1.085	0.1	3.9	4.4	582 (9/16)	501 86	1.085	0.3	3.6	4.0
AC87079-3	534 (10/14)	415 78	1.087	1.2	2.6	2.3	463 (13/14)	364 77	1.084	1.4	3.2	2.3	599 (6/16)	484 80	1.088	1.2	2.6	2.7
AC87138-4	598 (2/14)	450 76	1.086	0.6	3.0	3.4	506 (9/14)	365 72	1.082	0.8	3.1	3.0	622 (4/16)	467 74	1.084	0.8	3.4	3.6
TXNS102	546 (9/14)	404 74	1.075	1.7	3.9	1.9	483 (10/14)	379 78	1.074	1.7	3.8	1.6	522 (14/16)	405 77	1.072	1.6	3.5	2.1
TXNS296	553 (8/14)	406 74	1.074	1.4	3.7	2.1	481 (11/14)	384 80	1.073	1.8	4.0	1.5	530 (13/16)	418 79	1.073	1.8	3.7	1.8
R. NORKOTAH	440 (12/14)	336 75	1.073	1.5	3.3	2.0	377 (14/14)	308 81	1.071	2.0	3.7	1.7	443 (15/16)	361 81	1.071	1.8	3.6	2.0
R. BURBANK	569 (6/14)	355 63	1.083	1.1	2.0	2.8	568 (5/14)	330 59	1.081	1.4	2.3	3.4	553 (11/16)	320 58	1.081	1.2	1.9	2.9
Trial Mean	536	414 77	1.082	1.2	2.8	2.8	529	410 77	1.082	1.2	3.3	2.9	572	448 78	1.081	1.5	3.0	3.0

3 Year Average (1999-2001)

Clone	Total Yield ¹ &(rank) ²	US #1 Yield ¹ & %	SG	FRY 45	Merit Score Fresh Proc		Noted Weaknesses (all three years)
A8893-1	571 (59)	463 81	1.080	0.8	3.1	3.5	
A9014-2	514 (27)	438 85	1.085	0.2	3.6	4.3	
AC87079-3	532 (33)	421 78	1.086	1.3	2.8	2.4	Hollow Heart
AC87138-4	575 (66)	427 74	1.084	0.7	3.2	3.3	Hollow Heart, Black-spot, Sugar Ends
TXNS102	517 (26)	396 76	1.074	1.7	3.7	1.9	
TXNS296	521 (28)	403 78	1.073	1.7	3.8	1.8	
R. NORKOTAH	420 (7)	335 79	1.072	1.8	3.5	1.9	
R. BURBANK	563 (51)	335 60	1.082	1.2	2.1	3.0	
Trial Mean³	546	424 77	1.082	1.3	3.0	2.9	

¹ (CWT/A)² Percent of entries with lower yields;
e.g. 59% of all late trial entries over
three years, yielded lower than A8893-1.³ Late trial mean of all late trial entries 1999-2001