2013
WESTERN REGIONAL
POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS Cooperating

California
Colorado
Idaho
Oregon
Texas
Washington

2013 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

TABLE

Western Regional Potato Variety Trial Reports (1998-2013) can be accessed at the following website.

www.ars.usda.gov/main/docs.htm?docid=21888

Compiled by Brian Schneider

TABLE 1: 2013 Western Regional Potato Variety Trial - LOCATIONS, COOPERATORS, AND CULTURAL INFORMATION

No.	Locations	Cooperators	Trial	Irrigation	Fertilizer N-P-K-S(lb/A)	Planting Date	Vine Kill Date	Days to Vine Kill	Days to Harvest	Pesticides Applied[1] Herbicides	Insecticides	Fungicides
1	Tulelake California **(TUL)**	R. Wilson, D. Culp	Late	Sprink.	139-39-100	15-May	30-Aug	107	139	Prowl H20 Outlook Roundup, Matrix	Admire Pro Movento	Quadris x2 Bravo Weatherstik
								Reglone				
2	San Luis Valley Colorado **(SLV)**	D. Holm, C. Gray	Late	Pivot	120-60-40-25-2.5Zn	15-May	30-Aug	107	132	Dual, Magnum Matrix, Eptam 7E	Platinum 75 SG Fulfill	Omega 500F Quadris Bravo Weatherstik
								Sulfuric Acid				
3	Aberdeen Idaho **(AB)**	J. Stark, R. Novy, J. Whitworth, P. Bain, M. Chappell	Late	Sprink	275-240-100	2-May	30-Aug	120	144	TriCor 4F Prowl H2O Establish	Admire	Equus 720 SST Manzate flowable Echo
								Mechanical				
4	Kimberly Idaho **(KIM)**	J. Stark, R. Novy, J. Whitworth, P. Bain, M. Chappell	Late	Sprink.	295-256-370	25-Apr	10-Sep	138	172	Eptam TirClor 4F Matrix	Admire	Fulfil, Bravo, Gavel Rimon, Dithane F45
								Mechanical				
5	Parma Idaho **(PAR)**	M. Thornton, B. Buhrig, A. French, Oksana Adams	Early	Sprink.	140-160-100	4-Apr	30-Jul	117	119	**Prowl, Eptam Outlook**	**Movento Agrimek**	**Gavel Endura, Bravo**
			Late	Sprink.	245-160-100	24-Apr	11-Sep	140	155			
								Mechanical				
6	Hermiston Oregon **(HRM)**	S. Sathuvalli	Early	Pivot	300-180-100-70-5Zn-1B	22-Mar	23-Jul	123	138	Vapam**, Matrix Dual Magnum**	**Admire, Coragen Agrimek,** Actara, Movento	**Quadris, Ridomil** Dithane, Quadris Omega
			Late	Pivot	400-180-100-70-5Zn-1B	12-Apr	7-Sep	148	165			
								Reglone				
7	Dalhart Texas **(DAL)**	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	266-139-184	14-May	9-Sep	118	139	Chateu, Tricor Select Max, Brawl, Acumen	Epimek, Fulfil Movento, Beleaf	Platinum, Quadris, Echo Penncozeb, Scala, Luna Revus Top, Ulta Fourish
								Mechanical				
8	Springlake Texas **(SPR)**	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	155-34-34	29-Mar	31-Jul	124	136	Sencor Roundup, Dual	Movento, Agrimek Beleaf, Venom	Scala, Bravo
								Mechanical				
9	Othello **(OTH)**	M. Pavek,	Early	Pivot	200-250-300-40-2B	3-Apr	19-Jul	107	124	**Outlook,**		**Priaxor, Omega**
	Othello **(OTH)** Washington	R. Knowles	Late	Pivot	300-350-400-40-2B	8-Apr	4-Sep	149	157	**Prowl H20,**	Oberon 2SC	**Gavel 75DF**
								Mechanical/Chemical		**Metribuzin, Eptam**		

[1]**Bold indicates use in both location's trials.**

TABLE 2: 2013 Western Regional Potato Variety Trial - CLONE, PARENTAGE, FLOWER COLOR, ENTRY SUBMISSION, USE, TRIAL, YEARS IN TRIAL, SEED SOURCE, STAND, TUBER AND VINE CHARACTERISTICS

										Tuber and Vine Descriptions from Trial Observations[2]								
No.	Clone	Parents	Flower Color[1]	Entered by	Use	Trial	Year in Trial	Seed Source	Stand[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	**97**	Long	**4.4**	Med Russet	**3.7**	Med-Large	**3.6**	Medium	**3.5**	**2.2**
2	Russet Burbank	Early Rose ?	W	Ck	Dual	E/L	-	OR	**97**	Obl-Lng	**4.0**	Med Russet	**3.7**	Med-Large	**3.3**	Medium	**3.1**	**2.1**
3	Russet Norkotah	ND9687-5Rus ND9526-4Rus	W	Ck	Fresh	E/L	-	OR	**94**	Obl-Lng	**3.8**	Med Hvy Rus	**4.1**	Small	**2.4**	Early	**2.1**	**2.5**
4	Shepody	Bake-King F58050	RP	Ck	Proc	E	-	OR	**93**	Long	**4.1**	White	**1.5**	Med-Large	**3.8**	Medium	**3.1**	**2.1**
5	A02062-1TE	A97201-4 A97299-1	W	ID	Dual	E	1	OR	**88**	Long	**4.2**	Med Hvy Rus	**4.1**	Medium	**2.8**	Med Early	**2.9**	**1.8**
6	A02138-2	A96563-8 Premier Russet	W	ID	Dual	E/L	2	OR	**95**	Oblong	**3.0**	Light Russet	**2.9**	Medium	**2.6**	Med Early	**3.0**	**2.7**
7	A02424-83LB	AO96781-4 A97229-1	W	ID	Dual	E/L	1	ID	**96**	Obl-Lng	**3.8**	White	**2.0**	Med-Large	**3.9**	Med-Late	**3.6**	**2.6**
8	A02507-2LB	EGA09702-2 GemStar Russet	W	ID	Dual	E/L	2	OR	**85**	Oblong	**3.4**	Med Russet	**3.8**	Med-Large	**3.6**	Med-Late	**3.9**	**2.1**
9	A03158-2TE	A98292-2 A98104-4	W	ID	Dual	E/L	2	OR	**94**	Obl-Lng	**3.7**	Med Russet	**3.8**	Med-Large	**3.3**	Medium	**3.4**	**2.2**
10	AC00395-2RU	A95523-12 A84118-3	LP	CO	Fresh	E/L	2	CO	**96**	Oblong	**3.4**	Med Russet	**3.7**	Large	**4.1**	Med-Late	**3.8**	**2.0**
11	AO01114-4	AO92017-6 A86102-6	W	OR	Dual	E/L	1	OR	**96**	Obl-Lng	**3.7**	Med Russet	**3.8**	Med-Large	**3.2**	Medium	**3.3**	**2.0**
12	AO02060-3	A97201-4 Premier Russet	W	OR	Dual	E/L	2	OR	**98**	Oblong	**3.5**	Med Russet	**3.6**	Medium	**2.9**	Med Early	**2.8**	**2.6**
13	AOTX98152-3RU	A88338-1 A9201-6	LAV	TX	Fresh	L	1	CO	**94**	Oblong	**3.3**	Med Russet	**3.4**	Small	**1.7**	Med Early	**2.6**	**4.3**
14	CO03276-5RU	CO95086-8RU Blazer Russet	P	CO	Fresh	E	2	CO	**95**	Long	**4.2**	Med Russet	**4.0**	Med-Large	**3.5**	Medium	**3.2**	**2.8**
15	OR05039-4	AO95245-2 PA00N29-3	W	OR	Proc	E/L	1	OR	**95**	Obl-Lng	**4.0**	White	**1.9**	Med-Large	**3.3**	Medium	**3.5**	**2.1**
16	POR06V12-3	PA00V6-4 PA01N22-1	W	OR	Dual	E/L	1	OR	**94**	Obl-Lng	**4.0**	Med Hvy Rus	**4.2**	Med-Large	**4.0**	Med-Late	**3.8**	**1.9**

[1] P=Purple, R=Red, W=White

[2] Numerical values are means of all trial locations at 60 days.

[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: 2013 Western Regional Potato Variety Trial - TOTAL YIELD (CWT/A) - EARLY AND LATE HARVEST

		Total Yield - Early Harvest (CWT/A)								Total Yield - Late Harvest (CWT/A)									
		ID	OR	TX		WA	Entry			CA	CO	ID			OR	WA	Entry		
No.	Clone	PAR	HRM	DAL	SPR	OTH	Mean/Rank			TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank		
1	RANGER R.	525	528	458	159	479	**430**	**5**	**abcde**	393	361	416	608	692	713	821	**572**	**2**	**ab**
2	R. BURBANK	529	489	329	190	364	**380**	**11**	**cdef**	363	303	356	495	657	495	738	**487**	**9**	**cd**
3	R. NORKOTAH	595	329	600	168	421	**422**	**7**	**abcdef**	390	171	322	349	680	287	598	**400**	**11**	**e**
4	SHEPODY	555	509	325	241	354	**397**	**9**	**bcdef**	.	225	.	.	.	.	.	**.**	**.**	
5	A02062-1TE	504	350	547	203	477	**416**	**8**	**abcdef**	.	220	.	.	.	.	.	**.**	**.**	
6	A02138-2	562	442	490	290	476	**452**	**3**	**abc**	375	299	411	421	695	535	702	**491**	**8**	**cd**
7	A02424-83LB	435	438	417	165	523	**396**	**10**	**bcdef**	335	394	503	637	611	753	588	**546**	**3**	**abc**
8	A02507-2LB	421	465	491	193	317	**377**	**12**	**cdef**	301	312	398	558	598	712	756	**519**	**5**	**abcd**
9	A03158-2TE	595	500	584	256	505	**488**	**1**	**a**	412	418	489	559	720	719	844	**594**	**1**	**a**
10	AC00395-2RU	477	447	535	289	401	**430**	**5**	**abcde**	322	393	443	572	549	746	700	**532**	**4**	**abc**
11	AO01114-4	455	378	472	126	306	**347**	**15**	**f**	268	279	247	345	524	567	554	**398**	**12**	**e**
12	AO02060-3	545	475	494	249	524	**458**	**2**	**ab**	394	233	250	463	600	472	696	**444**	**10**	**de**
13	AOTX98152-3RU	.	.	.	.	.	**.**	**.**		300	221	316	250	600	371	611	**381**	**13**	**e**
14	CO03276-5RU	505	430	522	226	517	**440**	**4**	**abcd**	.	310	.	.	.	.	.	**.**	**.**	
15	OR05039-4	436	398	447	220	320	**364**	**13**	**def**	308	274	344	598	651	494	779	**492**	**7**	**cd**
16	POR06V12-3	436	438	380	201	358	**363**	**14**	**ef**	347	321	353	543	570	658	711	**501**	**6**	**bcd**
	Location Means	505	441	473	212	423	**411**			347	306	373	492	627	579	700	**489**		

Means followed by the same letter are not significantly different at the 5% level using Student's t test.
Entries not represented at all locations excludeded from location means and statistical analyses.

Indicates high or strength **Indicates low or weakness**

TABLE 4: 2013 Western Regional Potato Variety Trial - YIELD OF U.S. #1'S [CWT/A (upper) and % (lower)] - EARLY AND LATE HARVEST

		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		
No.	Clone	PAR	HRM	DAL	SPR	OTH	Mean/Rank			TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank		
1	RANGER R.	398	433	245	109	310	**299**	**9**	**abcd**	294	305	320	424	585	589	543	**437**	**5**	**ab**
		74	82	54	68	65	**69**	**12**		75	85	77	70	85	83	66	**77**	**8**	
2	R. BURBANK	358	375	111	141	212	**239**	**15**	**d**	250	200	224	321	467	371	526	**337**	**10**	**de**
		67	77	34	74	58	**62**	**15**		69	66	63	65	71	75	71	**69**	**12**	
3	R. NORKOTAH	535	259	357	129	269	**310**	**6**	**abcd**	298	108	241	270	634	214	473	**320**	**12**	**de**
		90	79	59	77	64	**74**	**7**		76	63	75	77	93	75	79	**77**	**8**	
4	SHEPODY	484	423	135	117	305	**292**	**11**	**abcd**	.	123	.	.	.	.	.	**.**	**.**	
		87	83	41	48	86	**69**	**12**		.	55	.	.	.	.	.	**.**	**.**	
5	A02062-1TE	457	300	320	178	376	**326**	**4**	**ab**	.	199	.	.	.	.	.	**.**	**.**	
		91	86	59	88	79	**80**	**2**		.	90	.	.	.	.	.	**.**	**.**	
6	A02138-2	447	345	353	215	279	**328**	**3**	**ab**	261	236	326	313	589	417	544	**384**	**8**	**bcd**
		80	78	72	74	59	**73**	**8**		70	79	79	74	85	78	78	**77**	**8**	
7	A02424-83LB	312	347	269	72	361	**272**	**13**	**bcd**	225	288	410	521	518	661	472	**442**	**4**	**ab**
		71	79	64	43	69	**65**	**14**		67	73	82	82	85	88	80	**80**	**7**	
8	A02507-2LB	371	377	391	153	197	**298**	**10**	**abcd**	173	274	336	479	585	639	635	**446**	**3**	**ab**
		88	81	80	79	62	**78**	**3**		57	88	84	86	98	90	84	**84**	**3**	
9	A03158-2TE	546	420	262	214	378	**364**	**1**	**a**	346	375	390	404	629	639	667	**493**	**1**	**a**
		92	84	45	83	75	**76**	**6**		84	90	80	72	87	89	79	**83**	**4**	
10	AC00395-2RU	357	361	381	193	296	**318**	**5**	**abc**	240	344	359	499	479	683	606	**459**	**2**	**ab**
		75	81	71	67	74	**73**	**8**		74	87	81	87	87	92	87	**85**	**2**	
11	AO01114-4	398	309	214	102	198	**244**	**14**	**cd**	214	225	205	250	484	490	447	**330**	**11**	**de**
		87	82	45	81	65	**72**	**10**		80	81	83	72	92	86	81	**82**	**6**	
12	AO02060-3	474	374	325	206	398	**355**	**2**	**a**	311	142	168	393	439	387	570	**344**	**9**	**cde**
		87	79	66	83	76	**78**	**3**		79	61	67	85	73	82	82	**76**	**11**	
13	AOTX98152-3RU	.	.	.	.	.	**.**	**.**		199	140	187	144	519	270	460	**274**	**13**	**e**
		.	.	.	.	.	**.**	**.**		66	63	59	57	86	73	75	**69**	**12**	
14	CO03276-5RU	412	328	271	154	376	**308**	**7**	**abcd**	.	175	.	.	.	.	.	**.**	**.**	
		82	76	52	68	73	**70**	**11**		.	57	.	.	.	.	.	**.**	**.**	
15	OR05039-4	391	335	336	185	270	**303**	**8**	**abcd**	259	248	302	483	625	413	681	**430**	**6**	**ab**
		89	84	75	84	84	**83**	**1**		84	90	88	81	96	84	87	**87**	**1**	
16	POR06V12-3	353	346	264	152	282	**279**	**12**	**bcd**	262	265	259	453	518	559	627	**421**	**7**	**abc**
		81	79	69	76	79	**77**	**5**		75	83	73	83	91	85	88	**83**	**4**	
	Location Means	419	355	282	154	300	**302**			256	242	287	381	544	487	558	**394**		
		83	81	59	73	71	**73**			74	78	76	76	87	83	80	**79**		

Means followed by the same letter are not significantly different at the 5% level using Student's t test.
Entries not represented at all locations excludeded from location means and statistical analyses.

TABLE 5: 2013 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 %									
		ID	OR	TX		WA	Entry			CA	CO	ID			OR	WA	Entry		
No.	Clone	PAR	HRM	DAL	SPR	OTH	Mean/Rank			TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank		
1	RANGER R.	150	143	100	14	13	**84**	**6**	**bcde**	32	122	170	257	315	342	312	**221**	**3**	**ab**
		29	27	22	9	3	**18**	**8**		8	34	41	42	46	48	38	**37**	**4**	
2	R. BURBANK	128	72	32	65	15	**62**	**11**	**cdef**	15	42	91	118	286	119	290	**137**	**8**	**def**
		24	15	10	34	4	**17**	**9**		4	14	26	24	44	24	39	**25**	**9**	
3	R. NORKOTAH	263	39	209	21	14	**109**	**4**	**abcd**	58	22	44	93	341	19	158	**105**	**11**	**ef**
		44	12	35	12	3	**21**	**4**		15	13	14	27	50	7	26	**22**	**11**	
4	SHEPODY	241	149	40	17	117	**113**	**3**	**abc**	.	24	.	.	.	.	.	**.**	**.**	
		43	29	12	7	33	**25**	**3**		.	10	.	.	.	.	.	**.**	**.**	
5	A02062-1TE	241	100	308	135	41	**165**	**1**	**a**	.	63	.	.	.	.	.	**.**	**.**	
		48	29	56	66	9	**42**	**1**		.	29	.	.	.	.	.	**.**	**.**	
6	A02138-2	122	59	139	36	9	**73**	**8**	**bcdef**	29	24	86	110	263	40	180	**105**	**11**	**ef**
		22	13	28	13	2	**16**	**11**		8	8	21	26	38	7	26	**19**	**12**	
7	A02424-83LB	23	39	42	2	6	**22**	**15**	**f**	11	21	152	301	188	261	214	**164**	**6**	**bcde**
		5	9	10	1	1	**5**	**15**		3	5	30	47	31	35	36	**27**	**8**	
8	A02507-2LB	133	46	176	37	0	**78**	**7**	**bcdef**	11	89	191	275	440	255	290	**222**	**2**	**ab**
		32	10	36	19	0	**19**	**6**		4	29	48	49	74	36	38	**40**	**1**	
9	A03158-2TE	277	128	141	88	22	**131**	**2**	**ab**	97	89	234	245	444	275	337	**246**	**1**	**a**
		47	26	24	34	4	**27**	**2**		24	21	48	44	62	38	40	**40**	**1**	
10	AC00395-2RU	57	68	113	3	21	**52**	**13**	**def**	15	129	144	257	223	189	310	**181**	**5**	**bcd**
		12	15	21	1	5	**11**	**13**		5	33	32	45	41	25	41	**32**	**5**	
11	AO01114-4	118	61	95	17	6	**59**	**12**	**cdef**	50	33	68	103	207	219	168	**121**	**10**	**def**
		26	16	20	14	2	**16**	**11**		19	12	28	30	39	39	30	**28**	**7**	
12	AO02060-3	148	76	197	55	5	**96**	**5**	**bcde**	69	7	15	195	278	92	266	**132**	**9**	**def**
		27	16	40	22	1	**21**	**4**		17	3	6	42	46	19	38	**25**	**9**	
13	AOTX98152-3RU	.	.	.	.	.	**.**	**.**		23	18	28	33	214	42	217	**82**	**13**	**f**
		.	.	.	.	.	**.**	**.**		8	8	9	13	36	11	36	**17**	**13**	
14	CO03276-5RU	99	43	58	26	16	**48**	**14**	**ef**	.	10	.	.	.	.	.	**.**	**.**	
		20	10	11	12	3	**11**	**13**		.	3	.	.	.	.	.	**.**	**.**	
15	OR05039-4	96	31	148	57	28	**72**	**9**	**cdef**	37	75	161	339	361	150	419	**220**	**4**	**abc**
		22	8	33	26	9	**19**	**6**		12	27	47	57	55	30	54	**40**	**1**	
16	POR06V12-3	89	92	81	37	18	**63**	**10**	**cdef**	29	71	92	236	235	121	335	**160**	**7**	**cde**
		20	21	21	18	5	**17**	**9**		8	22	26	43	41	18	47	**30**	**6**	
	Location Means	146	76	125	41	22	**82**			37	57	113	197	292	163	269	**161**		
		28	17	25	19	6	**19**			10	18	29	38	46	26	38	**29**		

Means followed by the same letter are not significantly different at the 5% level using Student's t test.
Entries not represented at all locations excludeded from location means and statistical analyses.

TABLE 6: 2013 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 %									
		ID	OR	TX		WA	Entry			CA	CO	ID			OR	WA	Entry		
No.	Clone	PAR	HRM	DAL	SPR	OTH	Mean/Rank			TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank		
1	RANGER R.	60	69	45	41	135	**70**	**6**	**bcd**	61	32	22	24	62	57	73	**47**	**9**	**cdef**
		11	13	10	26	28	**18**	**6**		16	9	5	4	9	8	9	**8**	**10**	
2	R. BURBANK	103	88	29	25	81	**65**	**8**	**cd**	86	87	63	61	57	73	69	**71**	**3**	**ab**
		19	18	9	13	22	**16**	**9**		24	29	18	12	9	15	9	**17**	**4**	
3	R. NORKOTAH	41	63	46	35	105	**58**	**10**	**de**	48	55	66	40	45	67	101	**60**	**5**	**bcd**
		7	19	8	21	25	**16**	**9**		12	32	20	11	7	23	17	**18**	**2**	
4	SHEPODY	46	57	38	74	22	**47**	**13**	**de**	.	79	.	.	.	.	.	**.**	**.**	
		8	11	12	30	6	**14**	**12**		.	35	.	.	.	.	.	**.**	**.**	
5	A02062-1TE	41	40	21	8	81	**38**	**14**	**e**	.	19	.	.	.	.	.	**.**	**.**	
		8	11	4	4	17	**9**	**15**		.	8	.	.	.	.	.	**.**	**.**	
6	A02138-2	114	83	68	64	172	**100**	**1**	**a**	94	60	69	76	89	106	104	**85**	**1**	**a**
		20	19	14	22	36	**22**	**3**		25	20	17	18	13	20	15	**18**	**2**	
7	A02424-83LB	121	80	98	80	114	**98**	**2**	**a**	75	97	44	32	83	50	52	**62**	**4**	**bc**
		28	18	23	48	22	**28**	**1**		22	25	9	5	14	7	9	**13**	**6**	
8	A02507-2LB	35	68	58	33	114	**61**	**9**	**de**	41	28	24	24	13	37	61	**33**	**12**	**fg**
		8	15	12	17	36	**17**	**7**		14	9	6	4	2	5	8	**7**	**12**	
9	A03158-2TE	35	69	36	28	96	**53**	**12**	**de**	37	35	41	23	26	65	88	**45**	**10**	**def**
		6	14	6	11	19	**11**	**13**		9	8	8	4	4	9	10	**8**	**10**	
10	AC00395-2RU	118	79	92	91	97	**95**	**3**	**ab**	74	38	40	37	70	60	82	**57**	**7**	**bcde**
		25	18	17	31	24	**23**	**2**		23	10	9	6	13	8	11	**11**	**8**	
11	AO01114-4	56	62	39	23	92	**54**	**11**	**de**	32	40	21	39	34	58	67	**42**	**11**	**efg**
		12	16	8	18	30	**17**	**7**		12	14	8	11	7	10	12	**11**	**8**	
12	AO02060-3	62	90	45	39	118	**71**	**5**	**bcd**	47	90	70	30	45	76	64	**60**	**5**	**bcd**
		11	19	9	16	22	**15**	**11**		12	38	28	6	8	16	9	**17**	**4**	
13	AOTX98152-3RU	.	.	.	.	.	**.**	**.**		60	70	101	85	68	86	88	**80**	**2**	**a**
		.	.	.	.	.	**.**	**.**		20	32	32	34	11	23	14	**24**	**1**	
14	CO03276-5RU	89	81	87	73	124	**91**	**4**	**abc**	.	128	.	.	.	.	.	**.**	**.**	
		18	19	17	32	24	**22**	**3**		.	41	.	.	.	.	.	**.**	**.**	
15	OR05039-4	40	59	25	26	38	**38**	**14**	**e**	21	24	19	33	18	44	41	**28**	**13**	**g**
		9	15	6	12	12	**11**	**13**		7	9	5	6	3	9	5	**6**	**13**	
16	POR06V12-3	82	79	56	43	71	**66**	**7**	**cd**	51	52	65	39	45	83	64	**57**	**7**	**bcde**
		19	18	15	21	20	**19**	**5**		15	16	18	7	8	13	9	**12**	**7**	
	Location Means	70	71	52	45	97	**67**			56	56	49	42	50	66	73	**56**		
		14	16	11	22	23	**17**			16	19	14	10	8	13	11	**13**		

Means followed by the same letter are not significantly different at the 5% level using Student's t test.
Entries not represented at all locations excludeded from location means and statistical analyses.

TABLE 7: 2013 Western Regional Potato Variety Trial - SPECIFIC GRAVITY - EARLY AND LATE HARVEST

		Specific Gravity - Early Harvest								Specific Gravity - Late Harvest									
		ID	OR	TX		WA	Entry			CA	CO	ID			OR	WA	Entry		
No.	Clone	PAR	HRM	DAL	SPR	OTH	Mean/Rank			TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank		
1	RANGER R.	1.075	1.078	1.078	1.075	1.073	**1.076**	**8**	**cdef**	1.094	1.086	1.087	1.082	1.079	1.078	1.085	**1.084**	**7**	**cd**
2	R. BURBANK	1.079	1.076	1.069	1.065	1.074	**1.072**	**11**	**fg**	1.087	1.083	1.072	1.077	1.072	1.068	1.075	**1.076**	**11**	**f**
3	R. NORKOTAH	1.071	1.070	1.067	1.073	1.075	**1.071**	**13**	**fg**	1.076	1.078	1.072	1.067	1.064	1.065	1.067	**1.070**	**13**	**g**
4	SHEPODY	1.080	1.076	1.074	1.072	1.062	**1.073**	**9**	**defg**	.	1.084	.	.	.	.	.	**.**	**.**	
5	A02062-1TE	1.074	1.076	1.067	1.067	1.069	**1.071**	**13**	**g**	.	1.078	.	.	.	.	.	**.**	**.**	
6	A02138-2	1.086	1.079	1.083	1.082	1.082	**1.082**	**2**	**ab**	1.098	1.092	1.092	1.090	1.080	1.080	1.084	**1.088**	**3**	**bc**
7	A02424-83LB	1.086	1.084	1.080	1.068	1.081	**1.080**	**4**	**bc**	1.099	1.087	1.090	1.088	1.085	1.086	1.081	**1.088**	**3**	**bc**
8	A02507-2LB	1.087	1.084	1.075	1.067	1.075	**1.078**	**6**	**bcd**	1.088	1.087	1.086	1.089	1.090	1.081	1.094	**1.088**	**3**	**bc**
9	A03158-2TE	1.076	1.079	1.074	1.067	1.069	**1.073**	**9**	**defg**	1.087	1.085	1.083	1.079	1.073	1.076	1.075	**1.080**	**10**	**e**
10	AC00395-2RU	1.096	1.087	1.087	1.072	1.083	**1.085**	**1**	**a**	1.104	1.093	1.092	1.096	1.087	1.098	1.095	**1.095**	**1**	**a**
11	AO01114-4	1.088	1.086	1.081	1.074	1.077	**1.081**	**3**	**abc**	1.095	1.088	1.091	1.087	1.082	1.083	1.085	**1.087**	**6**	**bc**
12	AO02060-3	1.082	1.082	1.075	1.071	1.077	**1.077**	**7**	**bcde**	1.093	1.092	1.085	1.080	1.077	1.076	1.080	**1.083**	**8**	**d**
13	AOTX98152-3RU	.	.	.	.	.	**.**	**.**		1.081	1.082	1.080	1.076	1.070	1.068	1.071	**1.076**	**11**	**f**
14	CO03276-5RU	1.074	1.074	1.073	1.066	1.070	**1.071**	**13**	**fg**	.	1.085	.	.	.	.	.	**.**	**.**	
15	OR05039-4	1.078	1.071	1.074	1.062	1.076	**1.072**	**11**	**fg**	1.093	1.088	1.084	1.082	1.080	1.074	1.077	**1.083**	**8**	**d**
16	POR06V12-3	1.090	1.072	1.079	1.074	1.079	**1.079**	**5**	**bc**	1.096	1.092	1.086	1.089	1.084	1.085	1.092	**1.089**	**2**	**b**
	Location Means	1.082	1.078	1.076	1.070	1.075	**1.076**			1.092	1.087	1.085	1.083	1.079	1.078	1.082	**1.084**		

Means followed by the same letter are not significantly different at the 5% level using Student's t test.
Entries not represented at all locations excludeded from location means and statistical analyses.

TABLE 8: 2013 Western Regional Potato Variety Trial - AVERAGE TUBER SIZE, AND TUBER SHAPE

		Average Tuber Size (oz)													Tuber Shape (1-5 length/width ratio: 1=round, 5=long)												Length/Width					
		Early Trial						Late Trial							Early Trial					Late Trial							Location Means[1]					
		ID	OR	TX		WA		CA	ID			OR	WA		OR	TX		WA		CA	CO	ID		OR			ID				CO	WA
No.	Clone	PAR	HRM	DAL	SPR	OTH	Mean	TUL	AB	KIM	PAR	HRM	OTH	Mean	HRM	DAL	SPR	OTH	Mean	TUL	SLV	AB	KIM	HRM	Mean		AB	KIM	PAR-E	PAR-L	SLV	OTH
1	RANGER R.	6.7	6.4	5.9	4.5	4.5	**5.6**	5.7	8.5	9.4	8.4	8.2	9.5	**8.3**	4.0	4.0	4.0	4.0	**4.0**	4.4	5.0	4.8	4.3	4.5	**4.6**		2.54	1.94	2.18	1.94	1.98	2.12
2	R. BURBANK	5.6	5.5	4.7	6.3	5.1	**5.4**	4.8	5.9	6.6	8.2	5.9	9.0	**6.7**	4.3	4.0	4.0	3.0	**3.8**	3.8	5.0	4.1	4.0	4.6	**4.3**		2.14	1.81	1.99	1.91	1.91	1.91
3	R. NORKOTAH	7.8	5.1	7.1	4.7	4.8	**5.9**	6.2	5.2	6.6	8.5	4.5	6.9	**6.3**	3.1	4.0	4.0	4.0	**3.8**	4.1	5.0	3.0	4.0	3.0	**3.8**		1.94	1.94	1.94	1.86	1.83	.
4	SHEPODY	7.5	7.1	4.6	3.7	7.9	**6.2**	.	.	.	.	.	.	**.**	3.5	4.0	5.0	3.0	**3.9**	.	5.0	.	.	.	**.**		.	.	1.65	.	2.35	.
5	A02062-1TE	7.9	6.6	8.2	9.5	5.5	**7.5**	.	.	.	.	.	.	**.**	3.4	4.8	4.0	4.0	**4.0**	.	5.0	.	.	.	**.**		.	.	2.32	.	2.23	.
6	A02138-2	5.7	5.2	6.1	5.3	4.1	**5.3**	5.0	5.8	5.8	7.0	5.1	6.9	**5.9**	2.3	4.0	4.0	1.0	**2.8**	3.9	4.0	4.0	2.8	2.1	**3.4**		1.64	1.51	1.46	1.39	1.66	1.38
7	A02424-83LB	4.0	5.2	4.6	2.9	4.9	**4.3**	4.8	7.8	8.7	6.5	8.0	8.7	**7.4**	3.1	3.5	4.0	4.0	**3.7**	4.3	5.0	3.8	3.4	3.4	**4.0**		1.71	1.73	1.82	1.70	2.07	1.67
8	A02507-2LB	7.2	5.4	6.1	6.1	4.1	**5.8**	6.2	8.6	9.0	12.6	8.0	8.9	**8.9**	3.3	3.5	4.0	2.0	**3.2**	3.9	4.0	3.8	3.3	3.4	**3.7**		1.71	1.41	1.62	1.47	1.81	1.41
9	A03158-2TE	8.1	6.1	7.6	6.7	5.2	**6.7**	7.0	8.6	9.8	11.2	7.2	8.9	**8.8**	3.3	4.5	4.0	2.7	**3.6**	4.0	4.0	3.0	4.0	3.8	**3.8**		2.04	1.74	1.94	1.87	1.89	1.47
10	AC00395-2RU	4.9	5.4	5.6	5.0	4.7	**5.1**	4.9	7.2	8.0	6.8	6.8	8.3	**7.0**	3.0	3.8	3.0	3.0	**3.2**	3.9	5.0	4.0	3.0	2.6	**3.7**		1.64	1.50	1.76	1.61	1.90	.
11	AO01114-4	6.5	6.4	6.5	5.5	4.5	**5.9**	6.6	6.9	7.5	8.7	7.0	7.8	**7.4**	3.1	4.7	4.0	3.7	**3.9**	3.6	4.0	4.0	3.8	3.6	**3.8**		1.74	1.67	1.80	1.71	1.74	1.63
12	AO02060-3	6.0	5.6	6.9	5.7	5.0	**5.8**	6.4	4.6	8.2	9.3	6.0	8.5	**7.2**	3.6	4.0	4.0	2.0	**3.4**	3.9	4.0	3.0	3.9	2.9	**3.5**		1.83	1.83	1.77	1.82	1.77	1.70
13	AOTX98152-3RU	.	.	.	.	.	**.**	5.3	4.4	4.3	7.1	4.8	7.6	**5.6**	.	.	.	.	**.**	3.3	4.0	4.8	3.0	3.0	**3.6**		1.68	1.64	.	1.61	1.77	.
14	CO03276-5RU	5.1	5.4	4.2	4.0	4.6	**4.7**	.	.	.	.	.	.	**.**	4.0	4.0	4.0	4.0	**4.0**	.	5.0	.	.	.	**.**		.	.	2.31	.	2.00	.
15	OR05039-4	6.6	5.3	7.4	5.9	6.0	**6.2**	6.9	8.3	9.9	10.9	7.0	10.6	**9.0**	3.0	4.5	5.0	3.5	**4.0**	4.4	5.0	2.8	4.6	3.1	**4.0**		2.07	1.95	1.95	1.89	2.06	1.88
16	POR06V12-3	5.0	5.9	5.9	5.4	5.0	**5.5**	5.7	5.9	8.1	7.6	5.9	9.2	**7.1**	3.3	3.5	4.0	4.0	**3.7**	4.3	5.0	4.8	4.0	3.1	**4.2**		1.77	1.69	1.84	1.62	1.88	1.76
Location Means		6.3	5.8	6.1	5.4	5.1	**5.7**	5.8	6.7	7.9	8.7	6.5	8.5	**7.3**	3.3	4.1	4.1	3.2	**3.7**	4.0	4.5	3.8	3.7	3.3	**3.9**		1.88	1.72	1.84	1.72	1.87	1.69

[1] Washington reported mean of 2.01 for Idaho samples and 1.66 for Oregon samples.

TABLE 9: 2013 Western Regional Potato Variety Trial - EXTERNAL DEFECTS MEANS OF LOCATIONS - GROWTH CRACKS, SECOND GROWTH, SHATTER BRUISE, AND SCAB[1]

		Growth Cracks		Second Growth		Shatter Bruise			Scab	
No.	Clone	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	Ab[2]	Early Trial	Late Trial
1	RANGER R.	4.8	4.1 PAR 2.7	4.6	4.6	5.0	4.1	3.3	5.0	4.3 AB 3.5
2	R. BURBANK	4.5 OTH 3.7	3.8 PAR 1.7	3.9 PAR 2.3	3.7 PAR 1.7	5.0	4.0	2.9	5.0	4.8
3	R. NORKOTAH	5.0	4.8	4.7	4.5	4.8	4.6	3.2	4.9	4.5
4	SHEPODY	5.0	.	4.6 PAR 3.3	.	5.0	.	.	4.9	.
5	A02062-1TE	5.0	.	5.0	.	5.0	.	.	5.0	.
6	A02138-2	4.9	4.7	5.0	4.8	4.7	4.0	2.8	5.0	4.5
7	A02424-83LB	4.9	4.8	4.9	4.4	4.8	3.5 TUL 2.1	2.7	4.8	4.1 AB 3.5
8	A02507-2LB	4.8	4.6	5.0	4.4 TUL 3.0	4.1 OTH 1.0	3.3	2.6	5.0	4.8
9	A03158-2TE	4.5	3.7 KIM 2.8 PAR 2.3	4.8	4.6	4.7	4.3	2.7	5.0	4.7
10	AC00395-2RU	4.9	4.7	5.0	4.8	5.0	4.3	3.1	4.9	4.8
11	AO01114-4	4.8	4.0 SLV 3.0	5.0	4.8	4.9	3.6 TUL 2.6	2.6	4.9	4.4
12	AO02060-3	4.8	3.9 PAR 1.0	5.0	4.8	4.7	4.1	3.3	4.9	4.5
13	AOTX98152-3RU	.	4.1	.	4.7	.	4.1	2.9	.	4.7
14	CO03276-5RU	4.7	.	5.0	.	4.8	.	.	4.9	.
19	OR05039-4	4.9	4.5	5.0	4.6	5.0	4.1	3.2	4.8	4.4
20	POR06V12-3	5.0	4.8	5.0	4.6	4.8	4.4	3.0	4.9	4.6
	Entry Means	4.8	4.3	4.8	4.5	4.8	4.0	2.9	4.9	4.5

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

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

TABLE 10: 2013 Western Regional Potato Variety Trial - INTERNAL DEFECTS MEANS OF LOCATIONS - HOLLOW HEART/BROWN CENTER, INTERNAL BROWN SPOT, VASCULAR DISCOLORATION/NET NECROSIS, AND BLACKSPOT[1]

		Percent Hollow Heart Plus Brown Center		Percent Internal Brown Spot		Percent Net Necrosis/ Vascular Discoloration		Blackspot Bruise [(1-5(NONE)]		Hermiston[3]	
No.	Clone	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	Late Trial	ID[2]	E	L
1	RANGER R.	1	1	2	1	9 HRM 38	11 TUL 28 HRM 28	4.7	2.1	38	23
2	R. BURBANK	3 HRM 10	4	7 HRM 33	2	9 HRM 35	8 TUL 15 HRM 23	4.6	2.5	10	33
3	R. NORKOTAH	2	6 AB 15 KIM 18	0	1	6 HRM 23	3	5.0	2.2	18	27
4	SHEPODY	1	0	1	.	9 HRM 35	.	5.0	.	28	.
5	A02062-1TE	0	0	1	.	4 HRM 18	.	5.0	.	18	.
6	A02138-2	0	1	0	4	1	3	4.6	1.7	20	30
7	A02424-83LB	0	0	1	1	3	8 TUL 15 HRM 23	4.8	2.9	43	37
8	A02507-2LB	0	0	3 HRM 13	14 PAR 17 HRM 45	3	4	4.7	3.2	33	23
9	A03158-2TE	4 OTH 17	3	2	1	7 HRM 28	8 TUL 20 HRM 20	4.8	2.7	18	23
10	AC00395-2RU	1	5 AB 25	0	3	6 HRM 23	6 TUL 15 HRM 13	5.0	3.5	10	10
11	AO01114-4	1	6 AB 23	0	0	2	3	5.0	2.8	10	13
12	AO02060-3	3 DAL 10	1	2	0	9 HRM 35	7 HRM 28	4.8	2.9	3	8
13	AOTX98152-3RU	.	3 AB 18	.	3	.	4	4.8	2.4	.	30
14	CO03276-5RU	1	0	1	.	5 HRM 20	.	4.9	.	15	.
19	OR05039-4	1	2	1	3 HRM 15	8 HRM 30	5 TUL 18	4.8	2.8	5	13
20	POR06V12-3	1	3 AB 15	1	0	3 HRM 13	4 HRM 15	5.0	3.3	5	8
	Entry Means	1	2	1	3	5	5	4.8	2.7	18	21

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

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

[3]Hermiston scores given as percent; includes heat bruise.

TABLE 11: 2013 Western Regional Potato Variety Trial - FRENCH FRY COLOR (00-4.0(darkest)) AND PERCENT SUGAR ENDS

		Field Fry				Fry 45					Fry 40				% Sugar Ends			
							ID				ID				ID		OR	
No.	Clone	CO SLV L	OR HRM L	WA OTH L	Entry Mean	CO SLV L	AB L	KIM L	WA OTH L	Entry Mean	AB L	KIM L	WA OTH L	Entry Mean	AB L	KIM L	HRM L	Entry Mean
1	RANGER R.	1.0	1.4	0.0	**0.8**	2.0	0.8	0.5	2.0	**1.5**	3.8	4.0	4.0	**3.9**	33	25	23	**29**
2	R. BURBANK	1.0	2.2	1.0	**1.3**	2.0	0.8	0.6	3.0	**1.7**	4.0	4.0	4.0	**4.0**	50	46	45	**48**
3	R. NORKOTAH	2.0	1.2	.	**1.7**	2.0	1.1	0.8	.	**1.6**	4.0	4.0	.	**4.0**	29	8	3	**17**
4	SHEPODY	0.0	.	.	**.**	3.0	.	.	.	**.**	.	.	.	**.**	.	.	.	**.**
5	A02062-1TE	0.0	.	.	**.**	1.0	.	.	.	**.**	.	.	.	**.**	.	.	.	**.**
6	A02138-2	0.0	0.9	0.0	**0.2**	0.0	0.4	0.4	0.0	**0.1**	1.8	2.3	2.0	**2.0**	0	0	0	**0**
7	A02424-83LB	0.0	0.6	0.0	**0.2**	1.0	0.6	0.5	3.0	**1.2**	2.8	3.0	3.0	**2.9**	8	19	0	**9**
8	A02507-2LB	0.0	0.9	0.0	**0.2**	1.0	0.4	0.3	0.0	**0.6**	1.5	2.2	0.0	**1.3**	17	6	0	**10**
9	A03158-2TE	1.0	0.9	1.0	**1.0**	2.0	0.9	0.7	2.0	**1.6**	3.8	4.0	3.0	**3.6**	17	13	0	**11**
10	AC00395-2RU	1.0	1.1	.	**1.0**	3.0	1.2	1.7	.	**2.4**	4.0	3.9	.	**4.0**	0	17	20	**9**
11	AO01114-4	2.0	0.9	1.0	**1.5**	3.0	0.7	0.7	2.0	**2.1**	3.8	4.0	4.0	**3.9**	8	21	0	**9**
12	AO02060-3	1.0	0.3	0.0	**0.6**	2.0	0.4	0.4	2.0	**1.5**	3.8	4.0	4.0	**3.9**	2	13	0	**4**
13	AOTX98152-3RU	2.0	1.7	.	**1.9**	2.0	0.4	0.5	.	**1.4**	3.8	3.2	.	**3.6**	29	31	28	**29**
14	CO03276-5RU	2.0	.	.	**.**	2.0	.	.	.	**.**	.	.	.	**.**	.	.	.	**.**
15	OR05039-4	0.0	0.9	0.0	**0.2**	0.0	0.4	0.4	2.0	**0.5**	2.7	3.4	2.0	**2.7**	25	4	5	**15**
16	POR06V12-3	0.0	0.7	0.0	**0.2**	1.0	0.5	0.6	0.0	**0.7**	3.0	2.8	1.0	**2.5**	17	21	0	**.**
	Location Means	0.8	1.1	0.3	**0.8**	1.7	0.7	0.6	1.6	**1.3**	3.3	3.5	2.7	**3.2**	18	17	9	**16**

Storage protocol prior to frying

Aberdeen - 6 weeks from 55F to 45F, 7 weeks from 55F to 40F, and 8 weeks @ 45F and 8 weeks @ 40F.
Kimberly - 6 weeks from 55F to 45F, 7 weeks from 55F to 40F, and 8 weeks @ 45F and 8 weeks @ 40F.
Othello - 2 weeks from 48F to 40F and 45 F, and 8 weeks @ 40F and 45F.
San Luis Valley - 4 weeks (ealry trial) and 6 weeks (late trial) from 55F to 45F, 7 weeks from 55F to 40F, and 8 weeks @ 45 and 8 weeks @ 40F.

* Comprehensive post harvest evalutations of entries can be found in the 2010 Potato Cultivar Yield & Post Harvest Quality Evalutions - Washington State University. Contact: Rick Knowles. **www.potatoes.wsu.edu**

TABLE 12: 2013 Western Regional Potato Variety Trial - DISEASE EVALUATION AND METRIBUZIN REACTION

No.	Clone	Vert. Wilt/ Early Dying AB[1] (0-9)	Vert. Wilt/ Early Dying AB[1] AUDPC	Vert. Wilt/ Early Dying HRM[2] (0-9)	Vert. Wilt/ Early Dying HRM[2] AUDPC	Vert. Wilt/ Early Dying TUL[3] (0-9)	Early Blight AB[1] Foliar (0-9)	Early Blight AB[1] Foliar AUDPC	Early Blight AB[1] Tuber %	Common Scab AB[1] Percent Incid.	Common Scab AB[1] Serious Defect	Net Necrosis/ Vasc. Discoloration[1] Percent Incidence	Net Necrosis/ Vasc. Discoloration[1] Serious Defect	Prosser Corky Ringspot % Incidence	Prosser Corky Ringspot DSI[4]	Pectobacterium Fusarium Dry Rot[1](0-5) F(sam)	Pectobacterium Fusarium Dry Rot[1](0-5) F(sol)	Pectobacterium Soft Rot[1] (0-5)	Metribuzin Reaction[5] AB
1	RANGER R.	.	.	4.5	563	5.4	.	.	.	.	.	.	.	43	38	.	.	.	.
2	R. BURBANK	6.7	741	6.5	1043	7.1	3.0	98	2	3	0	51	0	66	53	2.9	1.3	2.9	MR
3	R. NORKOTAH	9.0	.	5.5	1220	9.0	2.7	49	0	37	3	68	7	41	35	2.1	1.0	1.9	.
4	SHEPODY	4.7	393	6.5	929	.	5.3	469	0	80	30	86	59	62	41	.	.	.	VS
5	A02062-1TE	6.3	683	7.5	1694	.	6.3	601	0	14	1	75	8	15	9	3.3	1.0	2.0	R
6	A02138-2	7.0	776	8.0	1564	7.3	5.7	513	0	67	37	48	18	34	28	1.9	1.9	3.5	.
7	A02424-83LB	2.0	47	5.0	533	6.0	3.7	302	51	67	25	62	22	46	38	3.1	1.0	3.2	R
8	A02507-2LB	2.0	69	4.0	295	3.4	2.7	121	0	25	2	73	15	8	3	3.9	1.0	1.7	R
9	A03158-2TE	4.3	352	7.0	1585	6.5	5.3	469	0	10	0	81	14	34	28	4.4	1.1	2.1	R
10	AC00395-2RU	2.7	85	5.5	770	4.8	3.3	232	19	32	7	67	7	48	38	2.7	1.2	2.0	R
11	AO01114-4	7.0	799	7.5	1330	6.6	4.7	407	3	22	4	52	0	39	31	2.5	1.0	2.7	R
12	AO02060-3	9.0	.	6.0	773	6.3	4.3	222	5	48	11	47	9	26	20	4.7	1.1	1.7	R
13	AOTX98152-3RU	8.0	904	6.5	1050	6.7	7.0	735	0	71	45	46	25	50	27	1.1	1.2	3.4	MR
14	CO03276-5RU	7.3	858	7.5	1705	.	6.0	578	10	1	0	56	5	21	15	2.1	2.5	4.0	.
15	OR05039-4	2.0	47	3.5	222	6.4	3.7	229	34	78	36	52	11	1	0	3.5	2.1	0.8	R
16	POR06V12-3	3.7	252	4.0	302	5.3	1.7	91	2	23	4	35	4	0	0	1.9	1.1	2.3	R
	Entry Means	5.4	462	5.9	973	6.2	4.4	341	8	38	14	60	14	33	25	2.9	1.3	2.4	
	LSD (.05)	**1.1**					**1.5**		**6**	**28**	**22**	**19**	**23**			**1.0**	**0.7**	**n.s.**	

[1] Evaluations made at Aberdeen, Idaho by Jonathan Whitworth; scale as indicated with highest number being most severe. For 0 to 9: 0=no symptoms; 1= trace; 2=1-5%; 3=5-10%; 4=10-20%; 5=25-40%; 6=40-60%; 7=60-70%; 8=75-90%; 9=90-100% dead or dying with typcial disease symptoms. AUDPC: Area Under the Disease Progress curve based on foliar readings taken 107, 114, and 121 days after planting. 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. For 0 to 5: 0=0%/none; 5=100%/severe as a combination of tuber area and degree impacted by Fusarium and Pectobacterium innoculations.

[2] Evaluations made at Hermiston, Oregon; scale as indicated with highest number being most severe. AUDPC based on foliar readings taken 92, 107, and 139 days after planting.

[3] Evaluations made at Tulelake, California; scale as indicated, highest number (9=90-100%) being most severe.

[4] Evaluations made at Prosser, Washington by Chuck Brown: Tubers cut into 8 facets, DSI = percent of facets with blemish.

[5] Evaluations made at Aberdeen, Idaho; R=Resistant, MR=Moderately Resistant, S=Susceptible, MS=Moderately Susceptible, VS=Very Susceptible

TABLE 13: 2013 Western Regional Potato Variety Trial - SOLIDS, DEXTROSE, SUCROSE, PROTEIN, VITAMIN C, AND GLYCOALKALOIDS - ABERDEEN

No.	Clone	Solids Oven Dry %	Sugars: Dextrose (%FWB)[1]	Sugars: Sucrose (%FWB)[1]	Protein (%DWB)[1]	Vitamin C (mg/100g FWB)[1]	Glycoalkaloids[2] (mg/100g FWB)[1]
1	RANGER R.	22.5	0.07	0.18	5.9	32.4	3.7
2	R. BURBANK	20.1	0.09	0.15	4.7	21.7	2.8
3	R. NORKOTAH	20.5	0.08	0.12	4.8	23.1	3.1
4	SHEPODY						
5	A02062-1TE						
6	A02138-2	22.6	0.01	0.14	5.8	26.2	3.5
7	A02424-83LB	23.3	0.05	0.16	6.0	27.1	4.0
8	A02507-2LB	23.1	0.03	0.18	6.0	22.5	11.4
9	A03158-2TE	21.4	0.07	0.14	5.8	30.7	3.3
10	AC00395-2RU	25.1	0.10	0.21	5.6	21.9	7.4
11	AO01114-4	23.9	0.08	0.20	5.6	27.1	1.6
12	AO02060-3	22.2	0.04	0.16	6.0	24.3	3.1
14	AOTX98152-3RU	21.4	0.03	0.14	5.2	21.7	1.8
16	CO03276-5RU						
19	OR05039-4	21.6	0.05	0.16	6.3	19.5	10.0
20	POR06V12-3	22.4	0.05	0.12	6.3	19.1	19.0
	Entry Means	**22.3**	**0.06**	**0.16**	**5.7**	**24.4**	**5.7**

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

[2] Glycoalkaloids: The 2013 Lenape check grown at Aberdeen was 33.47 mg/100g

TABLE 14: 2013 Western Regional Potato Variety Trial - MERIT SCORES [1-5(best)]

No.	Clone	Process CO SLV L	ID AB L	ID KIM L	ID PAR E	ID PAR L	OR HRM E	OR HRM L	WA OTH E	WA OTH L	Process Early Trial Mean	(Rnk)	Process Late Trial Mean	(Rnk)	Process WA[1] 3 State Mean	Fresh CA TUL L	CO SLV L	ID AB L	ID KIM L	ID PAR E	ID PAR L	OR HRM E	OR HRM L	TX DAL E	TX SPR E	WA OTH E	WA OTH L	Fresh Early Trial Mean	(Rnk)	Fresh Late Trial Mean	(Rnk)
1	RANGER R.	5.0	3.0	3.0	3.0	3.3	3.0	3.0	2.7	4.4	**2.9**	4	**3.6**	6	3.9	3.3	5.0	3.0	2.5	2.8	2.0	2.0	2.0	1.6	3.0	1.7	0.9	**2.2**	14	**2.7**	8
2	R. BURBANK	5.0	2.5	2.5	3.2	3.0	2.0	2.0	1.4	1.7	**2.2**	14	**2.8**	10	1.9	3.5	3.0	3.3	3.8	1.8	1.7	2.0	2.0	1.0	3.1	1.2	0.6	**1.8**	15	**2.5**	11
3	R. NORKOTAH	2.0	2.0	2.0	4.0	4.0	2.5	2.5	2.0	.	**2.8**	8	**2.5**	12	.	4.0	1.0	3.3	3.0	3.7	4.0	3.5	3.5	3.7	3.7	2.0	1.0	**3.3**	2	**2.8**	4
4	SHEPODY	1.0	.	.	3.2	.	3.0	.	2.6	.	**2.9**	4	**.**	.	.	.	1.0	.	.	2.7	.	3.0	.	2.1	2.3	2.3	.	**2.5**	9	**.**	.
5	A02062-1TE	4.0	.	.	4.2	.	3.0	.	4.0	.	**3.7**	1	**.**	.	.	.	2.0	.	.	4.0	.	3.5	.	2.4	3.4	5.0	.	**3.7**	1	**.**	.
6	A02138-2	5.0	4.0	3.0	2.3	3.2	2.5	2.5	2.0	1.5	**2.3**	13	**3.2**	8	4.4	3.4	3.0	3.0	3.0	2.3	2.3	2.0	2.5	4.2	3.9	0.4	0.4	**2.6**	7	**2.5**	11
7	A02424-83LB	5.0	4.5	4.0	2.5	3.5	2.5	3.0	3.8	2.9	**2.9**	4	**3.8**	3	3.9	2.0	4.0	3.5	2.5	2.7	2.3	3.0	3.0	1.8	2.4	1.8	0.6	**2.3**	13	**2.6**	9
8	A02507-2LB	5.0	5.0	5.0	3.3	3.7	2.5	2.0	0.9	3.7	**2.2**	14	**4.1**	1	4.4	2.1	4.0	3.0	3.7	3.2	3.3	2.5	2.0	4.1	3.9	0.6	1.8	**2.8**	6	**2.8**	4
9	A03158-2TE	5.0	4.0	3.0	2.8	4.0	3.0	3.0	2.5	3.4	**2.8**	8	**3.7**	5	3.5	4.3	5.0	3.5	3.0	2.2	3.0	2.5	3.0	2.0	3.0	2.9	3.0	**2.5**	9	**3.5**	1
10	AC00395-2RU	3.0	3.0	3.0	3.2	3.7	3.0	3.5	3.1	4.0	**3.1**	2	**3.4**	7	.	4.1	5.0	2.8	3.3	3.0	3.8	3.5	3.0	3.9	3.1	2.3	1.9	**3.2**	4	**3.4**	2
11	AO01114-4	1.0	3.0	3.0	2.8	3.7	3.5	3.0	1.5	1.9	**2.6**	12	**2.6**	11	3.9	3.1	2.0	3.3	3.0	3.0	4.0	3.0	3.0	2.3	3.2	1.6	1.0	**2.6**	7	**2.8**	4
12	AO02060-3	2.0	3.0	4.0	3.3	4.0	3.0	3.0	2.9	2.7	**3.1**	2	**3.1**	9	3.6	3.8	1.0	3.3	3.4	3.2	2.8	3.0	3.0	4.1	3.7	2.8	0.9	**3.3**	2	**2.6**	9
13	AOTX98152-3RU	2.0	3.0	2.0	.	3.7	.	2.0	.	0.9	**.**	.	**2.3**	13	.	3.2	1.0	2.8	2.5	.	3.0	.	2.0	.	.	.	1.0	**.**	.	**2.2**	13
14	CO03276-5RU	3.0	.	.	3.0	.	2.5	.	2.8	.	**2.8**	8	**.**	.	.	.	2.0	.	.	1.8	.	2.5	.	1.5	3.4	3.3	.	**2.5**	9	**.**	.
15	OR05039-4	5.0	4.0	3.5	3.0	4.0	3.5	3.5	2.2	3.9	**2.9**	4	**4.0**	2	3.8	3.4	3.0	4.0	2.0	2.7	2.3	2.5	2.5	3.2	2.5	1.8	2.2	**2.5**	9	**2.8**	4
16	POR06V12-3	4.0	3.5	3.0	2.8	3.7	3.0	3.5	2.6	4.9	**2.8**	8	**3.8**	3	4.5	3.1	3.0	2.8	3.3	3.2	4.2	3.0	3.0	3.4	3.8	2.8	4.1	**3.2**	4	**3.3**	3
	Location Means	3.6	3.4	3.2	3.1	3.6	2.8	2.8	2.5	3.0	**2.8**		**3.3**		**3.8**	3.3	2.8	3.2	3.0	2.8	3.0	2.8	2.7	2.8	3.2	2.1	1.5	**2.7**	7.4	**2.8**	

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

TABLE 15: 2013 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) Early	Tuber Size (oz) Late	Specific Gravity[2]	Fry45 Color	Combined(E&L) Merit Score[3] Process	Combined(E&L) Merit Score[3] Fresh	Observations	Disposition 2014
1	RANGER R.	-	Dual	572	437	77	5.6	8.3	1.084	1.5	3.3	2.4		Check
2	R. BURBANK	-	Dual	487	337	69	5.4	6.7	1.076	1.7	2.5	2.2		Check
3	R. NORKOTAH	-	Fresh	400	320	77	5.9	6.3	1.070	1.6	2.7	3.1		Check
4	SHEPODY	-	Proc	397	292	69	6.2	6.2	1.073	.	2.9	2.5		Check
5	A02062-1TE	1	Dual	416	326	80	7.5	7.5	1.071	.	3.7	3.7	High oversize yield, %, and tuber size (E); Low SG (E); Long tuber (E); Res. to C. Scab and Corky Ringspot	Return - E
6	A02138-2	2	Dual	491	384	77	5.3	5.9	1.088	0.1	2.7	2.5	Hi. total yield (E); Low ov. size yield, %, and small tuber (L); High SG; short tuber; CSR no S. ends; Susc. to C. Scab,VW/ED; Res. Fus (sam)	WR - Chip
7	A02424-83LB	1	Dual	546	442	80	4.3	7.4	1.088	1.2	3.4	2.4	High Total yield & US#1 (L); High SG (L); Shatter (L); Bspot (Herm-E&L); Res to VW/ED; Susc. to C. Scab and Tuber EB	Return
8	A02507-2LB	2	Dual	519	446	84	5.8	8.9	1.088	0.6	3.2	2.8	High US#1 yield (L) & % (E&L); High ov. size, %, and large tuber (L); High SG (L); Shatter (E&L); IBS (Herm); CSR; Res. VW/ED,EB,CRS	Return
9	A03158-2TE	2	Dual	594	493	83	6.7	8.8	1.080	1.6	3.3	3.0	Highest total & US #1 yield (E&L); High ov. size, %, & large tuber (E&L); GC's (L); Res. to C. Scab; Susc. To Fus (sam); Higher Vit. C	Return
10	AC00395-2RU	2	Fresh	532	459	85	5.1	7.0	1.095	2.4	3.2	3.3	High SG (E&L);Poorer processing from 45 F; Res. To VW/ED, EB; Susc. To tuber EB	Withdrawn
11	AO01114-4	1	Dual	398	330	82	5.9	7.4	1.087	2.1	2.6	2.7	Low Total & US#1 yield (E&L); High SG (E); Shatter (L); Susc. to VW/ED	Return
12	AO02060-3	2	Dual	444	344	76	5.8	7.2	1.083	1.5	3.1	3.0	High total & US#1 yield (E); Susc. To Fus (sam); Res to EB	Return
13	AOTX98152-3RU	1	Fresh	381	274	69	5.6	5.6	1.076	1.4	2.3	2.2	Low Total & US#1 yield (L); Low ov.size yield, %, and small tuber (L); Low SG (L); Susc. to VW/ED, EB, and C. Scab; Res to Fus (sam)	Withdrawn
14	CO03276-5RU	2	Fresh	440	308	70	4.7	4.7	1.071	.	2.8	2.5	Low ov.size yield, %, and small tuber (E); Low SG (E); Susc. to VW/ED; Res. to C. Scab	Return
15	OR05039-4	1	Proc	492	430	87	6.2	9.0	1.083	0.5	3.4	2.6	High % ov.size & Largest tuber size (L); Res. to VW/ED, EB, Corky Ringspot; Susc. to C. Scab and Tuber EB; Lower Vit. C	Return
16	POR06V12-3	1	Dual	501	421	83	5.5	7.1	1.089	0.7	3.3	3.3	Lower Vit C. and High TGA; Res. To VW/ED, EB, Net Necrosis/VD, Corky Ringspot, and Fus (sam)	Return
	Entry Means			476	378	78	5.7	7.1	1.081	1.3	3.0	2.8		

[1] Numeric values represent means across all trial locations.

[2] Data shown from late trial results unless early trial entry only. (Entries 4, 5, 14)

[3] Data shown from combined early & late trial results.

TABLE 16: 2013 Western Regional Potato Variety Trial - ENTRY COMMENTS - EARLY AND LATE HARVEST

		Entry Comments - Early Harvest				Entry Comments - Late Harvest						
		ID	TX		WA	CA	CO	ID			OR	WA
No.	Clone	PAR	DAL	SPR	OTH	TUL	SLV	AB	KIM	PAR	HRM	OTH
1	Ranger Russet	typical ranger	rough, poor shape, skinny, drop,	curved, poor shape	Irregular shapes, good length.	Long, deep eyes, 28% vascular	.	curves	typical, crooked	typical ranger	.	Long, skinny, irregular shapes.
2	Russet Burbank	knoby, typical burbank	rough, poor shape, skinny, drop	some curved, some very nice shape, poor shape, long,	Some typy, many cracks and knobs.	Fair, irregular, high tuber set	.	few jellyends, some rot	typical	ugly, knobby	.	Ugly, non uniform shape.
3	Russet Norkotah	good size	some rough, oversized, pointed, too long	blocky, nice shape+, light set	Typy, non uniform russeting, good length.	Nice, uniform, high fresh merit score	rough	typical, nice, small	points, HH	typical norkotah, smooth	.	Nice skin, typy.
4	Shepody	big, light russet	light set, small, drop	white skin, poor shape, drop, long, skinny, curved	Large, irregular shape, low tuber number.	.	.	.	.	.	.	.
5	A02062-1TE	smooth, good yield	too large+, oversized, bruises, drop,	pointed, long and curved, poor shape+, too long	Typy, flat, a few points, ok skin set.	.	.	.	.	.	.	.
6	A02138-2	round, inconsistant	nice, Best Of Trial, smooth	heavy set and yield, Rhizoctonia, nice+, blocky, nice shape fat tubers	Round, nice chipper, softballs, DISCARD!	Lumpy, skinning, shatter, high	blocky	bad rot, short shattered	short, skinned	some misshapen, folded	Too round	Round, DISCARD!
7	A02424-83LB	really small, bad skinning	drop, no net, pointed, greening, shepody like skin, poor net, small, scab	small, greenhead, drop, poor shape, light set,	Smaller, white smooth skin. Some rhizoc and scab.	Shatter, low fresh merit value	rough, curved	blocky, lt russ, brow, shatter, green	white, green, points	round, IBS,OK	.	Ugly skin, ununiform shape.
8	A02507-2LB	pear shape, round, lumpy	Best Of Trial, blocky, slight vascular discoloration	some pointing, blocky, nice shape, fat tubers	Short, small, some points, not early.	Skinning, irregular, low fresh merit	rough	med hvy russ, blocky, shatter, rot	MHR, blocky	Good size, nice shape.	Lot of IBS.	Round, small ones.
9	A03158-2TE	blocky, folded ends	deep eyes, drop++, too long and skinny,	poor shape+, skinny, rough+	Mostly typy, large size range.	Nice, uniform, high fresh merit score	.	med russ, oblong, nice	MR, curves, GC	Big, long,not bad	.	Some irregular shapes, a bit bumpy.
10	AC00395-2RU	small, low yield	blocky	too round, blocky++, feathering, Rhizoctonia	Typy, a bit short.	Very nice, uniform, high fresh merit	minor curve	blocky, med russ, shatter, lumpy	MR, flat, points	Nice shape, smooth, clean	.	Bit short, bit flat, mostly typy.
11	AO01114-4	average	skinny, pointed, stem end bruise, drop	pointed+, curved, drop, nice flesh	Small, typy, not early.	Skin cracking, fair, uniform shape, low	.	long, skin checking	MHR, blocky, rough	nice, smooth, not bad size	.	Uniform shape, typy, and a bit short.
12	AO02060-3	little pointy, blocky	yield+, Best Of Trial, pointed, some greening	blocky, feathering, pointed to stem end	Some short, skinny, not early. Spotty russeting.	Fair, skinning, good fresh merit score,	poor russetting	small, med lt russ, poor skin	MR, blocky	Bad growth crack, misshapen	.	Short, shape nonuniform.
14	AOTX98152-3RU	.	.	.	.	Lumpy, skinning, irregular	.	med hvy russ, blocky, lumps,rot	v small	Misshapen, prolific	.	Smaller and round.
16	CO03276-5RU	little misshapen, pointy, long	skinny, curved, drop, heavy set,	skinny, small, feathering, thin, drop, light set	Typy, a bit flat, good skin set.	.	some pointed	.	.	.	.	.
19	OR05039-4	little curvy, light russet	light net, too long, pointed	stem end rot, white skin, poor skin finish, ugly, pointed, skinny, too long	Skinny, long, low tuber number.	Shatter, nice white, uniform, low tuber set	.	long, lt russ, curves	2 skin types	badly skinned	.	Long, ugly skin, but could be good processor.
20	POR06V12-3	not big	nice shape, blocky, light set	blocky+, nice shape, feathering, low yield, nice	Looks like Norkotah, typy.	Heavy russet, irregular shape, long	pointed, rough	lumpy, short, scab	large, HR folded ends	Smooth, good skin, nice	.	Best of show, fresh standout.