

2016 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS Cooperating

California

Colorado

Idaho

Oregon

Texas

Washington



2016 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

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Western Regional Potato Variety Trial Reports (1998-2016) can be accessed at the following website.

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

Compiled by Brian Schneider

TABLE 1: 2016 Western Regional Potato Variety Trial - LOCATIONS, COOPERATORS, AND CULTURAL INFORMATION

No. Locations	Cooperators	Trial Irrigation		Fertilizer N-P-K-S(Ib/A)	Planting Date	Harvest Date	Days to Vine Kill	Days to Harvest	Herbicides	Pesticides Applied ¹		
										Insecticides	Fungicides	
1 Tulelake California (TUL)	R. Wilson, D. Culp	Late	Sprink.	185-0-100	18-May	29-Sep	113	134	Prowl H2O, Matrix Roundup PM Outlook	Vydate	Omega, Tanos	
2 San Luis Valley Colorado (SLV)	D. Holm, C. Gray K. Zavislan	Late	Pivot	117-60-80-25+2.5Zn	20-May	27-Sep	102	130	Dual II Magnum Bourndry, Bawl II	Leverage 360 Mineral Oil	Quadris Opti, Bravo, Ultrex Endura	
3 Aberdeen Idaho (AB)	J. Stark, R. Novy, J. Whitworth, C. Lowder, J Hatch	Late	Sprink.	197-170-0-0+10Zn-5Mg	5-May	21-Sep	119	139	TriCor 4F Matrix Eptam 7-E	Admire		
4 Kimberly Idaho (KIM)	J. Stark, R. Novy, J. Whitworth, C. Lowder, J Hatch	Late	Sprink.	325-250-240-0+10Zn	22-Apr	4-Oct	140	165	Cornerstone Eptam	Rimon Beleaf	Luna Tranquility Bravo Weatherstik Zing, Fulfill, Dithane	
5 Parma Idaho (PAR)	M. Thornton, R. Portenier O. Adams	Early	Sprink.	212-150-100	6-Apr	9-Aug	94	125	Eptam	Admire	Vapam, Quadris	
		Late	Sprink.	276-280-100	14-Apr	22-Sep	147	161	Sencor, Prowl H2O Matrix, Reglone	Movento	Endura, Bravo, LunaT Onager, Zing!	
6 Hermiston Oregon (HRM)	S. Sathuvalli	Early	Pivot	380-190-375-90+25Mg-;	25-Mar	16-Aug	126	144	Vapam, Matrix	Admire	Quadris, Ridomil	
		Late	Pivot	385-190-375-90+2.25Zn	7-Apr	15-Sep	147	161	Dual Magnum Outlook, Prowl	Coragen Agr-Mek, Echo	Omega, Dithane	
7 Dalhart Texas (DAL)	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	263-218-227	4-May	10-Oct	129	159	Select Max Chateau, Brawl Acumen, Tricor Matrix SG Reglone	Beleaf, Fulfill Movento, Reaper Torac, Grandevo Sivanto 200SL	Quadris, Penncozeb, Bravo Revus Top, Scala SC Curzate 60DF, Gavel Orondis Opti A, Ranman Platinum Copper	
8 Springlake Texas (SPR)	J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	133-28-28	3-Apr	7-Aug	121	126	Roundup, Dual Matrix Stealth	Movento, Blackhawk Cruiser Maxx, Sivanto Enzo, Scorpion Torac, Venom	Scala, Copper Quadris, Tanos Echo, Revus	
9 Othello (OTH) Othello (OTH) Washington	M. Pavek, R. Knowles	Early	Linear	100-100-150-20+2B	31-Mar	9-Aug	118	131	Outlook	Platinum	Omega	
		Late	Pivot	365-250-300-40+2B	5-Apr	12-Sep	150	160	Prowl H2O Metribuzin Eptam		Luna Tranquility Chloronil	

¹Bold indicates use in both location's trials.

TABLE 2: 2016 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 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	98	Long	4.4	Med Russet	3.5	Med-Large	3.6	Medium	3.3	2.5
2	Russet Burbank	Early Rose ?	W	Ck	Dual	E/L	-	OR	98	Obl-Lng	3.8	Med Russet	3.2	Med-Large	3.6	Med Early	2.8	2.8
3	Russet Norkotah	ND9687-5Rus ND9526-4Rus	W	Ck	Fresh	E/L	-	OR	98	Obl-Lng	3.7	Med Russet	3.8	Medium	2.7	Early	1.9	3.0
4	Shepody	Bake-King F58050	RP	Ck	Proc	E	-	OR	98	Oblong	3.4	White	1.4	Med-Large	3.8	Medium	3.2	2.2
5	A03141-6	A098083-9 Premier Russet	W	ID	Dual	E/L	2	OR	98	Oblong	3.5	Light Russet	2.6	Med-Large	3.8	Medium	3.3	2.4
6	A03921-2	A96953-13 Alpine Russet	RP	ID	Dual	E/L	3	OR	96	Obl-Lng	3.8	Light Russet	2.8	Med-Large	4.0	Med Early	2.9	2.4
7	A06021-1T	A99031-1TE A96013-2	W	ID	Dual	E/L	3	OR	96	Oblong	3.5	Med Russet	3.5	Medium	2.9	Early	2.1	2.1
8	AO03123-2	A98082-17 Premier Russet	W	OR	Dual	E/L	2	OR	98	Obl-Lng	3.7	Med Russet	3.2	Med-Large	3.7	Med Early	3.0	2.8
9	AO06191-1	A99134-1 AC92009-4RU		OR	Dual	E/L	1	OR	98	Obl-Lng	3.6	Med Hvy Rus	4.1	Med-Large	3.8	Med Early	2.9	2.0
10	AOR06070-1KF	Premier Russet AO96164-1	W	OR	Proc	E/L	2	OR	98	Obl-Lng	3.8	Med Russet	3.5	Med-Large	3.9	Medium	3.4	2.9
11	CO04220-7RU	CO96109-7RU Summit Russet	W	CO	Dual	E/L	1	CO	99	Obl-Lng	4.0	Med Russet	3.4	Med-Large	3.1	Early	2.4	3.4
12	CO05068-1RU	AWN86514-2 CO98009-3RU	W	CO	Dual	E/L	3	CO	98	Oblong	3.3	Med Russet	3.2	Med-Large	4.0	Medium	3.1	2.5
13	CO05152-5RU	AC99375-1RU Blazer Russet	W	CO	Fresh	E/L	1	CO	98	Oblong	3.1	Med Russet	3.6	Med-Large	3.1	Early	2.4	2.7
14	CO05175-1RU	CO94035-15RU AC96052-1RU	W	CO	Fresh	E/L	3	CO	96	Obl-Lng	3.8	Med Russet	3.4	Med-Large	3.6	Medium	3.2	2.9
15	COTX09022-3RuRE/Y	A00286-3Y CO99100-1RU	W	TX	Fresh	E/L	2	NE	95	Rnd-Obl	2.1	Med Russet	3.3	Med-Large	3.4	Early	2.2	3.2
16	COTX09052-2Ru	CO03202-1RU CO98067-7RU	W	TX	Fresh	E/L	2	NE	98	Oblong	3.5	Med Russet	3.4	Med-Large	3.3	Early	2.3	1.8
17	TX08352-5Ru	TXA549-1Ru AOTX98137-1RU	W	TX	Dual	E/L	2	NE	97	Oblong	3.3	Med Russet	3.4	Medium	2.9	Early	2.1	2.5

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: 2016 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 ¹ (CWT/A)							
	ID	OR	TX		WA	Entry	CA	CO	ID		OR	WA	Entry	
	PAR	HRM	DAL	SPR ¹	OTH	Mean/Rank	TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank
1 RANGER R.	554	761	447	238	465	557 10 a	436	506	382	604	741	576	902	592 6 abc
2 R. BURBANK	636	784	307	357	526	563 9 a	439	544	426	678	706	525	733	579 9 abc
3 R. NORKOTAH	441	707	550	301	473	543 13 a	392	396	305	565	639	425	696	488 15 bc
4 SHEPODY	610	661	391	333	502	541 15 a	.	462	.	.	.	.	.	.
5 A03141-6	611	714	586	337	569	620 3 a	479	581	440	684	728	653	845	630 3 ab
6 A03921-2	492	706	443	291	560	550 11 a	407	524	421	649	655	650	816	589 7 abc
7 A06021-1T	550	486	552	316	534	530 16 a	359	443	379	374	570	402	688	459 16 c
8 AO03123-2	475	636	509	231	469	522 17 a	400	533	416	582	672	751	771	589 7 abc
9 AO06191-1	481	519	603	336	576	545 12 a	409	435	441	568	665	757	712	569 10 abc
10 AOR06070-1KF	576	934	443	329	569	630 1 a	.	580	584	629	703	754	872	687 1 a
11 CO04220-7RU	595	650	604	325	513	591 7 a	465	391	422	564	619	502	642	515 14 bc
12 CO05068-1RU	509	893	530	344	558	622 2 a	444	531	416	635	746	796	875	635 2 ab
13 CO05152-5RU	644	747	482	280	580	613 5 a	444	440	501	668	688	594	862	600 4 abc
14 CO05175-1RU	524	689	474	227	486	543 13 a	373	455	411	551	554	608	721	525 13 bc
15 COTX09022-3RuRE/Y	603	691	538	344	633	616 4 a	486	431	400	571	673	540	783	555 11 abc
16 COTX09052-2Ru	538	641	525	261	585	572 8 a	352	446	377	478	640	612	852	537 12 abc
17 TX08352-5Ru	584	597	632	388	587	600 6 a	427	469	436	589	740	759	754	596 5 abc
Location Means	554	695	507	308	540	574	421	480	422	587	671	619	783	572

¹Springlake excluded from location means and statistical analyses.

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

Indicates high or strength

Indicates low or weakness

TABLE 4: 2016 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 ¹ (CWT/A) and %										
	ID	OR	TX		WA	Entry		CA	CO	ID		OR	WA	Entry				
	PAR	HRM	DAL	SPR [†]	OTH	Mean/Rank		TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank			
1 RANGER R.	488	583	296	96	426	448	8	a	355	449	271	500	568	422	788	479	9	abc
	88	77	66	40	92	81	3		81	89	70	83	77	73	87	80	11	
2 R. BURBANK	458	593	117	34	383	388	16	a	302	456	262	476	544	373	574	427	12	abc
	72	76	38	9	73	65	16		68	84	61	70	77	71	78	73	15	
3 R. NORKOTAH	350	572	361	68	402	421	12	a	285	350	232	485	541	305	580	397	14	bc
	79	81	66	22	85	78	8		73	89	76	86	85	72	83	80	11	
4 SHEPODY	507	452	202	93	456	404	14	a	.	390	.	.	.	.	.	.	.
	83	68	52	28	91	73	14		.	84	.	.	.	.	.	.	.
5 A03141-6	560	447	399	162	523	482	4	a	412	540	364	628	698	405	795	549	3	ab
	92	63	68	48	92	79	5		86	93	83	92	96	62	94	87	1	
6 A03921-2	398	527	339	78	501	441	9	a	343	479	296	534	618	532	728	504	4	ab
	81	75	76	27	89	80	4		84	91	70	83	94	82	89	85	4	
7 A06021-1T	450	409	427	104	478	441	9	a	304	406	324	321	531	302	571	394	15	bc
	82	84	77	33	90	83	1		85	92	86	85	93	75	83	85	4	
8 AO03123-2	365	511	335	27	376	397	15	a	319	480	325	522	608	577	700	504	4	ab
	77	80	66	12	80	76	11		80	90	78	90	91	77	91	85	4	
9 AO06191-1	414	425	421	140	543	451	7	a	312	411	313	533	628	648	665	501	6	ab
	86	82	70	42	94	83	1		77	95	73	94	95	86	93	87	1	
10 AOR06070-1KF	498	690	301	98	488	494	2	a	.	524	411	521	630	567	790	574	1	a
	86	74	68	30	86	78	8		.	90	70	83	90	75	91	83	8	
11 CO04220-7RU	363	466	382	32	312	381	17	a	334	323	308	446	361	260	347	340	16	c
	61	72	63	10	61	64	17		72	83	73	79	58	52	54	67	16	
12 CO05068-1RU	386	773	339	86	485	496	1	a	370	485	334	575	676	617	790	550	2	a
	76	87	64	25	87	78	8		83	91	80	91	90	78	90	86	3	
13 CO05152-5RU	494	616	220	14	500	458	6	a	316	409	420	563	546	425	720	486	8	abc
	77	83	46	5	86	73	14		71	93	84	84	79	71	84	81	9	
14 CO05175-1RU	416	542	251	55	412	405	13	a	312	408	304	449	416	449	625	423	13	abc
	79	79	53	24	85	74	13		83	90	74	81	75	74	87	81	9	
15 COTX09022-3RuRE/Y	478	551	367	71	574	492	3	a	403	378	329	508	588	398	646	464	10	abc
	79	80	68	21	91	79	5		83	88	83	89	87	74	82	84	7	
16 COTX09052-2Ru	422	466	346	43	508	435	11	a	243	385	266	373	566	499	732	438	11	abc
	78	73	66	16	87	76	11		69	86	70	78	88	81	86	80	11	
17 TX08352-5Ru	455	452	498	142	494	475	5	a	204	430	352	493	654	622	666	489	7	abc
	78	76	79	37	84	79	5		48	92	81	84	88	82	88	80	11	
Location Means	441	534	329	79	462	442			321	432	319	495	573	463	670	470		
	80	77	64	25	85	76			76	90	76	84	85	74	85	82		

[†]Springlake excluded from location means and statistical analyses.
 Means followed by the same letter are not significantly different at the 5% level using Student's t test.

TABLE 5: 2016 Western Regional Potato Variety Trial - YIELD > 10 OZ [CWT/A (upper) & % (lower)] - EARLY AND LATE HARVEST

No. Clone	U.S. No. 1's > 10 OZ - Early Harvest (CWT/A) and %							U.S. No. 1's > 10 OZ - Late Harvest ¹ (CWT/A) and %										
	ID	OR	TX		WA	Entry		CA	CO	ID		OR	WA	Entry				
	PAR	HRM	DAL	SPR ¹	OTH	Mean/Rank		TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank			
1 RANGER R.	235	381	79	1	141	209	5	abcd	79	150	173	368	249	213	371	229	6	bcde
	42	50	18	0	30	35	5		18	30	46	61	34	37	41	38	6	
2 R. BURBANK	88	207	13	0	124	108	12	defg	45	106	96	255	251	77	181	145	11	defg
	14	26	4	0	24	17	12		10	20	22	37	36	15	25	23	12	
3 R. NORKOTAH	84	244	104	0	104	134	11	cdefg	103	124	38	305	242	55	167	148	10	defg
	19	34	19	0	22	24	11		26	31	13	53	38	13	24	28	10	
4 SHEPODY	238	399	37	0	315	247	3	ab	.	159	.	.	.	.	.	.	.
	39	60	9	0	63	43	2		.	34	.	.	.	.	.	.	.
5 A03141-6	213	499	291	1	260	316	1	a	303	246	249	509	588	396	603	413	1	a
	35	70	50	0	46	50	1		63	42	56	75	81	61	71	64	1	
6 A03921-2	99	385	112	0	197	198	6	bcde	148	247	149	403	370	243	435	285	4	bc
	20	55	25	0	35	34	6		36	47	35	62	57	37	53	47	3	
7 A06021-1T	104	209	185	1	165	166	10	bcdef	130	119	114	135	266	78	371	173	9	def
	19	43	34	0	31	32	7		36	27	30	35	46	19	54	35	9	
8 AO03123-2	28	238	92	0	37	99	13	defg	82	87	167	298	383	246	296	223	7	bcde
	6	37	18	0	8	17	12		20	16	40	51	57	33	38	37	8	
9 AO06191-1	74	246	271	4	290	220	4	abc	75	223	209	383	444	412	506	322	2	ab
	15	47	45	1	50	40	3		18	51	50	68	67	54	71	54	2	
10 AOR06070-1KF	201	522	68	0	242	258	2	ab	.	213	287	347	387	191	421	308	3	abc
	35	56	15	0	43	37	4		.	37	48	55	55	25	48	45	4	
11 CO04220-7RU	4	59	30	0	22	29	17	g	39	46	43	85	32	18	10	39	16	g
	1	9	5	0	4	5	17		8	12	10	15	5	4	1	8	16	
12 CO05068-1RU	48	417	77	0	208	188	7	bcde	149	142	187	350	319	169	455	253	5	bcd
	9	47	15	0	37	27	10		34	27	44	55	43	21	52	39	5	
13 CO05152-5RU	74	172	23	0	101	92	14	efg	37	103	174	267	156	75	155	138	13	efg
	12	23	5	0	17	14	15		8	23	35	40	23	13	18	23	12	
14 CO05175-1RU	104	374	72	3	186	184	8	bcde	118	161	183	302	199	138	303	201	8	cdef
	20	54	15	1	38	32	7		32	35	44	54	35	23	42	38	6	
15 COTX09022-3RuRE/Y	65	233	82	0	326	177	9	bcdef	135	44	94	263	183	65	190	139	12	efg
	11	34	15	0	52	28	9		28	10	23	45	27	12	24	24	11	
16 COTX09052-2Ru	30	109	82	0	146	92	14	efg	27	45	61	80	239	74	248	110	15	efg
	6	17	16	0	25	16	14		8	10	16	17	37	12	29	18	15	
17 TX08352-5Ru	22	63	155	2	27	67	16	fg	36	50	74	122	285	146	162	125	14	efg
	4	10	24	1	5	11	16		8	11	17	20	38	19	21	19	14	
Location Means	101	280	104	1	170	164			100	132	144	280	287	162	305	203		
	18	40	20	0	31	27			24	27	33	46	42	25	38	34		

¹Springlake excluded from location means and statistical analyses.

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

TABLE 6: 1311 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 ¹ (CWT/A) and %										
	ID		TX		WA	Entry		Mean/Rank	CA		CO		ID		OR	WA	Entry		Mean/Rank
	PAR	HRM	DAL	SPR ¹	OTH				TUL	SLV	AB	KIM	PAR	HRM	OTH				
1 RANGER R.	54	30	82	138	33	50	14	efg	58	45	14	18	86	73	79	54	12	bcdef	
	10	4	18	58	7	10	14		13	9	4	3	11	13	9	9	10		
2 R. BURBANK	151	56	70	281	76	88	7	bcde	63	78	53	49	74	98	116	76	5	bcd	
	24	7	23	79	14	17	7		14	14	12	7	10	19	16	13	4		
3 R. NORKOTAH	82	56	122	230	66	82	8	bcdef	52	30	51	31	86	92	95	63	7	bcde	
	19	8	22	76	14	16	9		13	8	17	6	13	22	14	13	4		
4 SHEPODY	53	34	66	189	26	45	15	efg	.	40	.	.	.	.	.	.	.
	9	5	17	57	5	9	15		.	9	.	.	.	.	.	.	.
5 A03141-6	47	30	27	174	40	36	17	g	17	19	23	14	20	48	27	24	16	f	
	8	4	5	52	7	6	17		4	3	5	2	3	7	3	4	16		
6 A03921-2	88	40	54	211	41	56	13	defg	37	35	30	20	36	79	34	39	15	def	
	18	6	12	73	7	11	12		9	7	7	3	6	12	4	7	14		
7 A06021-1T	99	36	71	208	37	61	12	defg	41	29	29	50	40	88	35	44	13	cdef	
	18	7	13	66	7	11	12		11	6	8	14	7	22	5	11	8		
8 AO03123-2	106	80	83	200	90	90	6	bcde	54	42	26	39	55	120	57	56	10	bcdef	
	22	13	16	86	19	18	6		13	8	6	7	8	16	7	9	10		
9 AO06191-1	65	36	40	169	26	42	16	fg	54	17	19	19	33	50	18	30	14	ef	
	14	7	7	50	4	8	16		13	4	4	3	5	7	3	6	15		
10 AOR06070-1KF	63	67	94	230	47	68	11	cdefg	.	47	28	36	62	112	61	58	8	bcdef	
	11	7	21	70	8	64	1		.	8	5	6	9	15	7	8	13		
11 CO04220-7RU	228	162	177	291	197	191	1	a	125	64	104	98	254	227	289	166	1	a	
	38	25	29	90	38	33	2		27	16	25	17	41	45	45	31	1		
12 CO05068-1RU	108	56	109	239	45	80	9	cdefg	40	34	31	40	64	142	45	57	9	bcdef	
	21	6	21	69	8	14	10		9	6	8	6	9	18	5	9	10		
13 CO05152-5RU	134	67	175	265	60	109	4	bc	67	28	49	35	120	139	127	81	4	bc	
	21	9	36	95	10	19	4		15	6	10	5	17	23	15	13	4		
14 CO05175-1RU	90	39	116	161	45	73	10	cdefg	34	38	37	30	69	125	52	55	11	bcdef	
	17	6	25	71	9	14	10		9	8	9	6	13	21	7	10	9		
15 COTX09022-3RuRE/Y	113	74	169	273	39	99	5	bcd	60	51	45	44	84	123	123	76	5	bcd	
	19	11	31	79	6	17	7		12	12	11	8	13	23	16	13	4		
16 COTX09052-2Ru	114	153	164	218	74	126	2	b	107	61	89	102	74	101	92	90	2	b	
	21	24	31	84	13	22	3		30	14	24	22	12	17	11	18	2		
17 TX08352-5Ru	129	123	105	246	90	112	3	bc	119	33	74	85	77	125	79	85	3	b	
	22	21	17	63	15	19	4		28	7	17	14	11	16	10	15	3		
Location Means	101	67	101	219	61	83			62	41	44	44	77	109	83	66			
	18	10	20	72	11	18			15	9	11	8	12	18	11	12			

¹Springlake excluded from location means and statistical analyses.

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

TABLE 7: 2016 Western Regional Potato Variety Trial - SPECIFIC GRAVITY - EARLY AND LATE HARVEST

No. Clone	Specific Gravity - Early Harvest						Specific Gravity - Late Harvest									
	ID	OR	TX		WA	Entry	CA	CO	ID		OR	WA				
	PAR	HRM	DAL	SPR	OTH	Mean/Rank	TUL	SLV	AB	KIM	PAR	HRM	OTH			
1 RANGER R.	1.085	1.071	1.074	1.076	1.097	1.080	7	cde	1.083	1.087	1.087	1.085	1.085	1.069	1.087	def
2 R. BURBANK	1.083	1.073	1.057	1.074	1.091	1.076	12	fg	1.082	1.084	1.080	1.081	1.082	1.068	1.085	ef
3 R. NORKOTAH	1.075	1.065	1.058	1.070	1.083	1.070	16	h	1.070	1.077	1.074	1.072	1.073	1.062	1.076	gh
4 SHEPODY	1.082	1.066	1.068	1.081	1.092	1.078	9	efg	.	1.082	.	.	.	.	.	.
5 A03141-6	1.092	1.076	1.065	1.080	1.104	1.083	6	bcd	1.090	1.095	1.091	1.092	1.089	1.071	1.095	abcd
6 A03921-2	1.104	1.079	1.079	1.089	1.112	1.092	1	a	1.095	1.101	1.096	1.104	1.094	1.079	1.098	a
7 A06021-1T	1.084	1.071	1.066	1.076	1.092	1.077	10	efg	1.081	1.086	1.088	1.086	1.085	1.071	1.080	def
8 AO03123-2	1.084	1.069	1.070	1.076	1.097	1.079	8	def	1.083	1.089	1.086	1.091	1.083	1.070	1.091	cdef
9 AO06191-1	1.095	1.075	1.073	1.082	1.102	1.085	3	b	1.089	1.093	1.087	1.091	1.087	1.076	1.092	abcde
10 AOR06070-1KF	1.092	1.076	1.079	1.080	1.106	1.087	2	b	.	1.100	1.098	1.099	1.089	1.076	1.096	ab
11 CO04220-7RU	1.083	1.068	1.058	1.076	1.097	1.077	10	efg	1.080	1.086	1.084	1.085	1.081	1.068	1.086	ef
12 CO05068-1RU	1.093	1.077	1.076	1.074	1.106	1.085	3	b	1.093	1.098	1.089	1.103	1.092	1.075	1.093	abc
13 CO05152-5RU	1.078	1.066	1.065	1.073	1.090	1.075	13	gh	1.081	1.079	1.083	1.088	1.081	1.067	1.082	f
14 CO05175-1RU	1.081	1.066	1.062	1.069	1.095	1.075	13	gh	1.078	1.087	1.091	1.084	1.077	1.059	1.085	ef
15 COTX09022-3RuRE/Y	1.087	1.076	1.070	1.088	1.099	1.084	5	bc	1.081	1.091	1.089	1.085	1.084	1.076	1.089	bcdef
16 COTX09052-2Ru	1.081	1.067	1.060	1.071	1.098	1.075	13	fg	1.079	1.086	1.084	1.082	1.080	1.065	1.080	fg
17 TX08352-5Ru	1.068	1.054	1.055	1.068	1.084	1.066	17	i	1.064	1.072	1.074	1.070	1.064	1.056	1.066	h
Location Means	1.085	1.070	1.067	1.077	1.097	1.079			1.082	1.088	1.086	1.087	1.083	1.069	1.086	

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

TABLE 8: 2016 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)										Length/Width Ratio Location Means ²										
	Early Trial						Late Trial							Early Trial					Late Trial					CA		CO		ID		OR		WA ³		
	ID	OR	TX	WA	CA	Mean	CA	ID	OR	WA	Mean	OR	TX	WA	Mean	CA	CO	ID	OR	WA	Mean	TUL	SLV	AB	KIM	PAR	HRM	OTH	TUL	SLV	AB	KIM	PAR	HRM	OTH
1 RANGER R.	7.0	8.8	5.1	2.9	7.9	7.2	5.8	10.6	11.1	6.9	5.8	8.4	8.1	4.8	4.0	3.8	4.0	4.1	3.9	5.0	4.6	4.9	5.0	3.8	4.5	1.69	2.11	2.09	1.95	1.91	2.13	1.77		
2 R. BURBANK	5.0	6.7	4.4	2.2	6.7	5.7	5.9	7.2	8.6	7.3	4.8	6.8	6.8	4.5	4.0	3.6	3.0	3.8	4.1	3.0	4.0	3.9	5.0	3.0	3.8	1.75	1.73	1.85	1.75	1.76	1.99	1.73		
3 R. NORKOTAH	5.7	6.6	5.1	2.5	6.8	6.1	6.4	5.5	9.3	7.0	4.6	6.8	6.6	3.0	4.0	3.8	3.3	3.5	4.3	4.0	4.0	4.0	3.0	4.0	3.9	1.82	1.94	1.99	1.86	1.73	1.90	.		
4 SHEPODY	7.7	8.4	5.2	2.7	11.1	8.1	.	.	.	.	.	.	.	4.3	3.8	3.0	3.0	3.5	.	3.0	.	.	.	.	3.0	.	1.80	.	.	1.49	1.74	.
5 A03141-6	7.0	11.7	8.9	3.0	8.9	9.1	10.6	9.6	12.7	12.8	8.4	12.4	11.1	3.5	4.0	3.5	3.0	3.5	3.8	3.0	3.5	3.5	4.8	2.8	3.5	1.59	1.57	1.78	1.62	1.55	1.72	1.52		
6 A03921-2	5.7	7.6	6.4	2.5	8.3	7.0	6.9	8.1	11.6	8.9	6.2	10.3	8.7	3.5	4.0	3.5	3.0	3.5	3.9	4.0	4.1	3.9	4.8	3.0	3.9	1.61	1.84	1.96	1.71	1.61	1.78	1.54		
7 A06021-1T	5.7	8.3	6.1	2.8	8.1	7.0	6.5	7.2	6.6	7.8	4.7	9.7	7.1	3.3	3.8	3.8	3.0	3.5	3.9	4.0	3.6	3.6	3.5	3.0	3.6	1.71	1.81	1.88	1.71	1.73	1.79	1.66		
8 AO03123-2	4.3	5.4	5.5	2.1	5.8	5.3	5.9	8.1	8.0	7.9	5.4	8.0	7.2	3.8	4.0	3.5	3.0	3.6	3.8	4.0	3.9	3.6	4.5	3.0	3.8	1.69	1.85	1.96	1.86	1.77	1.87	1.70		
9 AO06191-1	5.3	7.7	8.7	3.2	9.8	7.9	6.1	10.7	11.0	10.0	7.9	12.3	9.6	3.0	3.8	3.5	4.0	3.6	3.9	3.0	3.9	3.5	3.8	3.5	3.6	1.65	1.74	1.92	1.73	1.57	1.80	1.49		
10 AOR06070-1KF	6.7	8.2	5.2	2.6	8.7	7.2	.	11.3	9.7	8.1	5.5	9.2	8.8	4.0	3.8	3.6	3.0	3.6	.	4.0	3.9	4.0	5.0	3.0	4.0	.	1.81	1.82	1.79	1.60	1.92	1.60		
11 CO04220-7RU	4.0	4.9	4.3	2.0	4.7	4.4	4.7	5.1	5.7	3.8	3.6	4.3	4.5	4.3	3.8	3.5	3.3	3.7	3.9	5.0	3.6	3.9	5.0	4.0	4.2	1.73	2.09	1.89	1.85	1.81	2.07	2.06		
12 CO05068-1RU	5.0	7.4	5.0	2.6	8.4	6.5	6.9	8.1	8.8	7.1	5.1	9.6	7.6	3.5	3.7	3.0	3.0	3.3	3.9	3.0	4.0	3.4	3.0	3.0	3.4	1.65	1.67	1.76	1.63	1.53	1.65	1.54		
13 CO05152-5RU	5.0	6.4	3.9	2.0	7.2	5.6	5.7	7.2	8.2	5.3	4.4	6.5	6.2	2.0	3.5	3.0	2.5	2.8	3.8	3.0	3.8	3.6	3.0	2.5	3.3	1.54	1.74	1.80	1.62	1.52	1.54	.		
14 CO05175-1RU	5.0	6.7	5.6	2.2	8.3	6.4	6.8	8.1	9.7	6.9	4.5	8.6	7.4	4.3	4.0	3.8	3.0	3.8	3.9	4.0	4.5	3.8	3.5	3.0	3.8	1.68	1.96	1.93	1.71	1.79	1.97	.		
15 COTX09022-3RuRE/	5.3	7.1	4.3	2.3	9.6	6.6	6.3	6.2	7.8	5.7	4.5	6.4	6.1	1.5	3.0	3.0	1.7	2.3	2.3	3.0	2.1	2.3	1.5	1.0	2.0	1.14	1.36	1.24	1.24	1.18	1.20	.		
16 COTX09052-2Ru	4.7	4.9	4.7	2.4	7.0	5.3	4.4	5.5	5.2	6.5	4.9	7.3	5.6	3.0	3.7	3.5	4.0	3.6	4.0	3.0	3.9	3.8	3.5	3.0	3.5	1.61	1.57	1.77	1.81	1.58	1.79	.		
17 TX08352-5Ru	4.7	5.8	5.6	2.8	6.1	5.5	4.7	5.7	5.9	6.4	5.1	7.1	5.8	3.0	3.8	3.5	3.0	3.3	4.1	3.0	3.6	3.6	3.0	2.5	3.3	1.34	1.70	1.81	1.73	1.65	1.71	.		
Location Means	5.5	7.2	5.5	2.5	7.8	6.5	6.2	7.7	8.7	7.4	5.3	8.4	7.3	3.5	3.8	3.5	3.1	3.5	3.8	3.6	3.8	3.7	3.9	3.0	3.6	1.61	1.78	1.84	1.72	1.63	1.80	1.66		

¹Springlake excluded from location means.²Parma and Hermiston; combined means of Early Harvest and Later Harvest Trials.³Washington reported mean of 1.92 for Idaho samples and 1.80 for Oregon samples.

TABLE 9: 2016 Western Regional Potato Variety Trial - EXTERNAL DEFECTS MEANS OF LOCATIONS - GROWTH CRACKS, SECOND GROWTH, SHATTER BRUISE, AND SCAB¹

No. Clone	Growth Cracks		Second Growth		Shatter Bruise			Scab	
	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	Ab ²	Early Trial	Late Trial
1 RANGER R.	4.9	4.5	4.7	4.4 HRM 3.5	4.8	4.9	2.8	4.8	4.8
2 R. BURBANK	4.8	4.3	4.4 HRM 2.6	3.7 AB 2.5 HRM 2.9	5.0	4.3	2.7	4.8	4.9
3 R. NORKOTAH	5.0	4.8	4.8	4.7	5.0	5.0	3.3	4.6 HRM 3.0	4.6 HRM 3.1
4 SHEPODY	4.7 PAR 3.8	5.0	4.6	4.0	4.8	.	.	4.8	.
5 A03141-6	5.0	4.9	4.9	4.7	4.9	3.9 OTH 2.0	2.7	4.9	4.7
6 A03921-2	4.8	4.8	5.0	4.7	4.2 OTH 2.0	3.7 OTH 2.0	2.2	4.8	4.7
7 A06021-1T	4.9	4.8	5.0	4.9	4.7	3.8 OTH 2.0	2.8	4.9	4.8
8 AO03123-2	5.0	4.8	5.0	4.7	4.7	3.9 OTH 2.0	2.8	4.9	4.5 PAR 3.3
9 AO06191-1	4.9	4.7	5.0	4.9	4.7	3.4 OTH 1.0	3.2	4.9	4.9
10 AOR06070-1KF	4.6	4.9	4.8	4.7	3.7 HRM 2.6 OTH 1.0	3.1 OTH 1.0	2.2	4.8	4.2 OTH 2.0
11 CO04220-7RU	5.0	4.8	4.9	4.9	5.0	5.0	3.3	4.8	4.8
12 CO05068-1RU	5.0	4.8	4.9	4.8	4.7	4.1	2.8	5.0	5.0
13 CO05152-5RU	4.9	4.4 TUL 3.8	5.0	4.8	4.1 OTH 1.0	3.3 OTH 1.0	2.5	4.8	4.9
14 CO05175-1RU	5.0	4.8	4.9	4.2 PAR 3.3	4.8	4.6	3.5	4.8	4.9
15 COTX09022-3RuRE/Y	4.7	4.4 AB 3.8	5.0	4.8	5.0	4.6	3.5	4.9	4.7 PAR 3.7
16 COTX09052-2Ru	5.0	5.0	5.0	5.0	4.8	4.3	3.3	4.9	4.8
17 TX08352-5Ru	5.0	5.0	5.0	4.6 TUL 2.7	4.7	3.7 OTH 2.0	2.8	4.9	4.9
Entry Means	4.9	4.7	4.9	4.6	4.7	4.1	2.9	4.8	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: 2016 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	0	0	0	0	8	TUL 20 HRM 18	3.4	OTH 1.0	3.9	OTH 3.0	1.5	
2 R. BURBANK	5	PAR 13	4	TUL 15 OTH 14	4	OTH 11	1	3.8	OTH 2.0	4.0	OTH 3.0	1.7	
3 R. NORKOTAH	1	1	0	0	1	2	4.5	4.2	2.4				
4 SHEPODY	5	PAR 10 HRM 15	0	.	6	HRM 18	.	4.5	4.9	.			
5 A03141-6	3	HRM 10	0	1	0	6	HRM 15	4.3	4.3	2.7			
6 A03921-2	2	2	3	HRM 15	3	HRM 10	0	5	TUL 15	4.4	3.3	HRM 1.9	1.7
7 A06021-1T	1	0	1	3	HRM 15	0	3	4.5	4.2	1.6			
8 AO03123-2	0	1	0	1	2	4	4.9	4.6	4.0				
9 AO06191-1	1	0	0	0	1	1	4.6	4.1	2.2				
10 AOR06070-1KF	5	OTH 22	4	AB 15	0	0	7	HRM 28	4.5	4.6	2.1		
11 CO04220-7RU	0	4	AB 15	7	DAL 35	0	5	HRM 15	8	HRM 33	5.0	4.7	2.4
12 CO05068-1RU	5	OTH 14	4	AB 13	0	1	0	5	4.5	3.6	OTH 3.0	1.3	
13 CO05152-5RU	1	0	1	0	1	3	4.6	4.4	2.2				
14 CO05175-1RU	1	3	0	0	0	2	4.5	4.6	3.1				
15 COTX09022-3RuRE/Y	0	1	0	0	0	2	3.5	OTH 2.0	4.0	HRM 2.9	1.9		
16 COTX09052-2Ru	0	0	0	1	6	HRM 18	6	TUL 20	4.6	4.5	2.6		
17 TX08352-5Ru	1	0	0	0	0	3	4.8	3.6	OTH 3.0	2.2			
Entry Means	1.7	1.6	0.9	0.6	1.3	3.9	4.4	4.2	2.2				

¹All scores [1-5(none)]. Individual 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: 2016 Western Regional Potato Variety Trial - FRENCH FRY COLOR (00-4.0(darkest)) AND PERCENT SUGAR ENDS

No. Clone	Field Fry				Fry 45						Fry 40				% Sugar Ends				
	CO	OR	WA	Entry Mean	CO	ID		OR	WA	Entry Mean	ID		WA	Entry Mean	ID		OR		Entry Mean
	SLV	HRM	OTH		SLV	AB	KIM	HRM	OTH		AB	KIM	OTH		AB	KIM	HRM	E	
L	E	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
1 RANGER R.	2.0	0.0	0.0	0.7	2.0	0.5	0.8	1.7	0.0	1.0	2.4	2.3	3.0	2.6	83	75	21	0	45
2 R. BURBANK	1.0	0.3	1.0	0.8	1.0	0.7	0.6	1.6	2.0	1.2	3.7	2.5	4.0	3.4	38	88	25	17	42
3 R. NORKOTAH	2.0	1.3	.	1.6	2.0	0.7	0.7	1.6	.	1.3	3.8	3.3	.	3.5	46	71	33	8	40
4 SHEPODY	2.0	0.4	.	1.2	2.0	.	.	.	.	2.0	.	.	.	.	.	.	38	.	38
5 A03141-6	1.0	0.0	0.0	0.3	2.0	0.4	0.5	0.6	0.0	0.7	0.8	0.8	1.0	0.9	29	58	0	29	29
6 A03921-2	1.0	0.1	0.0	0.4	1.0	0.6	0.6	0.1	0.0	0.5	0.5	0.8	1.0	0.8	42	38	38	17	33
7 A06021-1T	1.0	0.4	0.0	0.5	2.0	0.8	0.9	1.6	1.0	1.3	2.7	2.6	3.0	2.8	46	71	0	4	30
8 AO03123-2	1.0	0.1	0.0	0.4	1.0	0.4	0.4	0.9	0.0	0.5	1.8	1.5	3.0	2.1	42	61	17	25	36
9 AO06191-1	2.0	0.2	0.0	0.7	2.0	0.5	0.5	1.4	1.0	1.1	2.0	2.5	3.0	2.5	45	50	13	17	31
10 AOR06070-1KF	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.3	0.0	0.2	0.8	0.5	2.0	1.1	21	46	21	4	23
11 CO04220-7RU	1.0	0.0	0.0	0.3	2.0	0.4	0.6	1.1	1.0	1.0	2.0	2.8	3.0	2.6	38	8	17	17	20
12 CO05068-1RU	0.0	0.4	0.0	0.1	0.0	0.5	0.3	1.4	0.0	0.4	1.4	0.7	3.0	1.7	17	27	13	8	16
13 CO05152-5RU	2.0	0.2	.	1.1	3.0	1.0	0.9	2.3	.	1.8	3.8	3.3	.	3.5	50	42	29	8	32
14 CO05175-1RU	0.0	0.0	.	0.0	1.0	0.4	0.7	1.7	.	0.9	2.7	1.8	.	2.2	50	71	29	42	48
15 COTX09022-3RuRE	1.0	1.0	.	1.0	1.0	0.5	0.7	0.8	.	0.7	1.1	2.3	.	1.7	25	33	4	25	22
16 COTX09052-2Ru	0.0	0.5	.	0.3	0.0	0.5	0.5	0.4	.	0.4	1.3	1.0	.	1.1	46	83	21	13	41
17 TX08352-5Ru	2.0	0.2	.	1.1	3.0	1.5	1.5	3.1	.	2.3	4.0	3.7	.	3.9	42	63	33	13	38
Location Means	1.1	0.3	0.1	0.6	1.5	0.6	0.7	1.3	0.5	1.0	2.2	2.0	2.6	2.3	41	55	21	15	33

Storage protocol prior to frying

Aberdeen - 7 weeks from 55F to 45F, 7 weeks from 55F to 40F, and 8 weeks @ 45F and 7 weeks @ 40F.

Hermiston - 6 weeks from 55F to 47 F, and 9 weeks @ 45F.

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

Othello - 6 weeks from 55F to 45F, 7 weeks from 55F to 40F, and 8 weeks @ 45F and 40F.

San Luis Valley - 4 weeks from 55F to 45F, and 10 weeks @ 45.

* Comprehensive post harvest evaluations of entries can be found in the 2016 Potato Cultivar Yield & Post Harvest Quality Evaluations - Washington State University. Contact: Rick Knowles. www.potatoes.wsu.edu

TABLE 12: 2016 Western Regional Potato Variety Trial - DISEASE EVALUATION AND METRIBUZIN REACTION

No.	Clone	Vert. Wilt/ Early Dying						Early Blight AB ¹		Late Blight Corvallis ⁴		Common Scab AB ¹		Net Necrosis/ Vasc. Discolor. ¹		Pectobacterium			Metribuz. React. ⁵		
		AB ¹		HRM ²		TUL ³		Foliar		Tuber		Foliar		Tuber		Percent Serious		Fusarium		Soft	
		(0-9)	AUDPC	(0-9)	AUDPC	(0-9)	AUDPC	(0-9)	AUDPC	%		(1-9)	AUDPC	%		Incid.	Defect	Incid.		Defect	F(sam)	F(sol)	(0-5)	AB
1	RANGER R.	6.3	426	4.7	235	5.9	328	3.0	40	5	8.8	1243	38	27	11	78	0	2.3	2.0	1.7	R
2	R. BURBANK	8.3	922	5.3	333	7.5	715	3.0	48	0	9.0	1281	40	7	2	76	12	4.7	3.1	3.4	R
3	R. NORKOTAH	9.0	1243	8.7	1058	9.0	1683	3.5	69	0	9.0	1352	63	9	3	76	2	2.3	1.6	2.6	MR
4	SHEPODY	7.0	519	.	.	.	.	4.3	85	0	9.0	1319	70	24	13	36	5	3.6	1.5	1.9	VS
5	A03141-6	7.7	671	5.0	255	4.5	101	1.7	11	0	8.3	1129	18	25	17	71	17	4.8	1.4	1.7	MR
6	A03921-2	7.3	659	6.3	444	6.0	366	2.7	28	2	9.0	1331	45	12	2	69	6	4.1	1.7	4.0	MR
7	A06021-1T	8.0	846	8.3	971	6.8	817	3.7	77	3	9.0	1355	75	18	6	77	26	4.7	1.2	3.5	MR
8	AO03123-2	2.3	22	4.3	224	4.3	165	2.3	27	0	8.8	1196	33	41	12	52	2	4.9	2.7	1.5	MR
9	AO06191-1	8.0	858	7.5	603	5.5	269	4.3	102	4	8.3	1151	33	2	0	40	0	2.1	1.3	2.5	MR
10	AOR06070-1KF	3.3	53	5.3	295	.	.	2.3	26	2	9.0	1306	45	14	3	49	0	4.5	1.5	2.8	R
11	CO04220-7RU	8.0	846	7.3	715	5.8	324	4.3	105	0	9.0	1331	55	5	1	52	2	2.1	1.5	2.3	MR
12	CO05068-1RU	4.3	110	6.0	370	4.0	188	2.3	22	0	7.5	1081	35	21	10	62	0	2.4	1.1	2.2	MR
13	CO05152-5RU	6.0	309	7.7	849	7.3	767	4.7	113	0	9.0	1355	55	3	0	84	51	4.5	1.3	3.2	R
14	CO05175-1RU	4.7	198	5.7	404	4.5	206	2.3	23	0	8.3	1185	45	16	1	56	0	4.6	1.9	0.5	R
15	COTX09022-3RuRE/Y	7.3	688	5.3	295	4.1	121	5.3	193	5	9.0	1297	43	18	12	36	0	4.2	1.9	2.6	R
16	COTX09052-2Ru	8.3	858	8.0	794	8.0	782	2.3	20	0	9.0	1349	13	18	6	55	2	2.6	2.7	1.8	R
17	TX08352-5Ru	8.7	1068	7.7	921	8.8	1235	3.0	34	0	9.0	1363	48	4	3	29	0	1.0	2.3	2.4	R
Entry Means		6.7	606	6.4	548	6.1	538	3.2	60	1	8.8	1272	44	16	6	59	7	3.5	1.8	2.4	
LSD (.05)		1.2						1.2		n.s.	1.0	126	42	n.s.	n.s.	25	10	0.6	0.8	2.1	

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.

AUDPC: Area Under the Disease Progress curve based on foliar readings taken 103, 110, and 117 days after planting.

Common Scab and Net Necrosis serious defects are number of tubers with a 3 rating (0-5 scale) or higher, divided by 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 inoculations.

² Evaluations made at Hermiston, Oregon; scale as indicated with highest number being most severe. Readings 120 days after planting. AUDPC based on folia readings take 91, 105, 120 after planting.

³ Evaluations made at Tulelake, California; AUDPC based on foliar readings taken 82, 93, 98, and 106 days after planting.

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: 2016 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 R.	22.2	0.05	0.20	4.9	27.5	3.0
2 R. BURBANK	21.0	0.03	0.13	4.4	22.2	2.5
3 R. NORKOTAH	20.0	0.05	0.13	4.6	20.6	2.0
4 SHEPODY	.	.	.	.	.	.
5 A03141-6	23.1	0.03	0.24	6.3	25.3	6.0
6 A03921-2	25.9	0.02	0.19	6.0	31.4	5.3
7 A06021-1T	21.2	0.06	0.13	4.9	17.0	2.3
8 AO03123-2	20.8	0.04	0.19	6.2	16.6	5.7
9 AO06191-1	22.0	0.04	0.18	5.3	21.6	8.3
10 AOR06070-1KF	23.6	0.05	0.22	6.2	30.7	5.1
11 CO04220-7RU	21.4	0.01	0.14	5.9	25.7	2.1
12 CO05068-1RU	21.6	0.03	0.17	4.4	27.0	8.8
13 CO05152-5RU	20.4	0.05	0.14	6.4	23.8	2.1
14 CO05175-1RU	21.1	0.02	0.18	5.6	30.8	0.8
15 COTX09022-3RuRE/Y	22.2	0.01	0.14	5.9	32.7	2.0
16 COTX09052-2Ru	20.3	0.02	0.14	4.9	28.7	2.6
17 TX08352-5Ru	18.2	0.09	0.11	4.5	22.6	3.1
Entry Means	21.6	0.04	0.17	5.4	25.3	3.9

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

² Glycoalkaloids: The 2016 Lenape check grown at Aberdeen was 19.62 mg/100g

TABLE 14: 2016 Western Regional Potato Variety Trial - MERIT SCORES [1-5(best)]

No. Clone	Post-Harvest											Fresh														
	Process										Process	Fresh														
	CO		ID		OR		WA		Early	Late	WA ¹	CA	CO		ID		OR		TX		WA		Early	Late		
	SLV	AB	KIM	HRM	OTH	E	L	E	L	Mean(Rnk)	Mean(Rnk)	3 State	TUL	SLV	AB	KIM	HRM	DAL	SPR	E	L	E	L	Mean(Rnk)	Mean(Rnk)	
L	L	L	E	L	E	L	E	L	Mean(Rnk)	Mean(Rnk)	Mean	L	L	L	L	E	L	E	E	E	L	Mean(Rnk)	Mean(Rnk)			
1 RANGER R.	4.0	2.5	2.5	2.9	2.7	2.6	4.6	2.8	12	3.3	8	3.4	2.9	3.0	2.4	2.6	2.4	2.8	2.5	3.4	2.8	2.2	2.8	10	2.6	14
2 R. BURBANK	4.0	2.0	3.0	2.7	2.3	2.0	3.2	2.4	16	2.9	10	2.8	2.4	3.0	2.3	2.4	2.5	2.2	2.5	2.7	0.9	1.3	2.1	17	2.2	15
3 R. NORKOTAH	1.0	2.0	2.5	2.4	2.8	3.1	.	2.7	13	2.1	15	.	2.8	1.0	3.5	3.3	3.6	3.0	3.5	3.6	2.5	2.5	3.3	3	2.7	12
4 SHEPODY	3.0	.	.	1.9	.	4.3	.	3.1	10	3.0	9	.	.	2.0	.	.	2.2	.	2.5	2.9	.	.	2.5	16	2.0	16
5 A03141-6	5.0	4.5	4.0	2.8	3.0	3.9	3.9	3.4	6	4.1	2	3.8	2.0	5.0	2.6	3.1	2.5	2.8	3.2	2.9	2.4	1.7	2.7	12	2.9	8
6 A03921-2	5.0	4.0	4.0	3.1	3.4	3.1	2.9	3.1	10	3.9	4	4.0	2.3	4.0	2.9	3.3	2.9	2.9	3.4	3.3	1.9	1.7	2.8	10	2.8	11
7 A06021-1T	3.0	2.5	2.5	3.4	2.8	4.3	2.9	3.9	1	2.7	11	3.0	2.9	2.0	4.1	3.6	3.3	2.9	3.1	3.5	2.1	2.7	3.0	5	3.0	6
8 AO03123-2	5.0	3.0	3.0	3.6	3.3	1.8	4.2	2.7	13	3.7	5	3.8	2.8	4.0	3.4	3.8	3.7	3.3	2.5	3.2	0.9	1.9	2.6	15	3.2	4
9 AO06191-1	4.0	3.0	3.0	3.6	3.8	3.9	4.0	3.7	3	3.6	6	3.1	3.1	3.0	3.5	3.9	3.4	3.9	3.4	3.6	3.4	4.4	3.4	2	3.6	1
10 AOR06070-1KF	5.0	4.5	4.5	3.5	3.0	2.8	3.7	3.2	9	4.1	2	3.8	.	5.0	3.3	3.5	3.0	2.5	3.1	3.2	1.6	2.0	2.7	12	3.3	2
11 CO04220-7RU	3.0	3.0	2.5	3.0	2.4	1.9	2.6	2.4	16	2.7	11	3.8	3.5	1.0	4.3	3.8	2.8	2.5	3.0	3.6	1.5	1.0	2.7	12	2.7	12
12 CO05068-1RU	5.0	4.0	4.5	3.7	3.4	3.0	4.4	3.3	8	4.3	1	3.0	2.4	4.0	2.5	3.4	3.5	3.3	2.6	3.1	2.6	2.0	2.9	7	2.9	8
13 CO05152-5RU	1.0	2.0	2.0	3.3	3.1	3.8	2.5	3.6	4	2.1	15	.	3.4	2.0	4.0	3.3	3.7	3.4	2.5	3.5	2.1	2.1	2.9	7	3.0	6
14 CO05175-1RU	3.0	2.0	3.0	3.6	2.3	3.2	3.3	3.4	6	2.7	11	.	2.8	2.0	3.1	3.1	3.9	3.8	3.0	3.0	2.2	2.6	3.0	5	2.9	8
15 COTX09022-3RuRE/Y	3.0	3.5	3.0	2.7	2.0	2.3	1.6	2.5	15	2.6	14	.	1.1	1.0	3.0	2.6	2.7	1.7	3.7	3.3	2.0	1.4	2.9	7	1.8	17
16 COTX09052-2Ru	4.0	3.0	3.0	3.4	3.3	3.6	3.6	3.5	5	3.4	7	.	3.3	2.0	4.1	4.0	3.6	3.7	3.0	3.2	3.1	2.8	3.2	4	3.3	2
17 TX08352-5Ru	1.0	1.5	1.5	3.3	2.5	4.3	2.1	3.8	2	1.7	17	.	2.8	2.0	4.0	4.4	3.8	3.7	4.0	3.9	2.2	2.5	3.5	1	3.2	4
Location Means	3.5	2.9	3.0	3.1	2.9	3.2	3.3	3.1		3.1		3.5	2.7	2.7	3.3	3.4	3.2	3.0	3.0	3.3	2.1	2.2	2.9	8.5	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: 2016 Western Regional Potato Variety Trial - ENTRY SUMMARY¹

Entry No.Clone	Year In Use Trial	US Total Yield ²	US #1's Yield ²	US % #1's ²	Tuber Size (oz)		Specific Gravity ²	Combine(E&L) Merit Score ³			Observations	Disp. 2017
					Early	Late		Fry45	Process	Fresh		
1 RANGER R.	- Dual	592	479	80	7.2	8.1	1.083	1.0	3.1	2.7		Check
2 R. BURBANK	- Dual	579	427	73	5.7	6.8	1.080	1.2	2.7	2.2		Check
3 R. NORKOTAH	- Fresh	488	397	80	6.1	6.6	1.072	1.3	2.3	2.9		Check
4 SHEPODY	- Proc	541	404	73	8.1	.	1.078	2.0	3.1	2.4		Check
5 A03141-6	2 Dual	630	549	87	9.1	11.1	1.089	0.7	3.9	2.9	High Tot. & US Yields (E&L); High Oversize % & Yield (E&L); Large tuber size (E&L); Higher IBS (Herm); CSR; Res. to EB; Susc to scab; Higher protein; High Process merit (L)	
6 A03921-2	3 Dual	589	504	85	7.0	8.7	1.095	0.5	3.6	2.9	High % oversize (L); High SG (E & L) & solids; Susc. To Shatter & BS Bruise (Herm-L); CSR; Higher protein & Vit. C; High Process merit (L)	Grad
7 A06021-1T	3 Dual	459	394	85	7.0	7.1	1.082	1.3	3.1	3.0	Low total yields (E&L) and US yield (L); Susc to Vert/ED; High Process Merit (E)	Grad
8 AO03123-2	2 Dual	589	504	85	5.3	7.2	1.085	0.5	3.4	3.0	Low total & US yields (E); Res. to B. spot bruise (AB); Res. to Vert/ED; Susc. to scab; Higher protein	
9 AO06191-1	1 Dual	569	501	87	7.9	9.6	1.088	1.1	3.6	3.6	High % oversize (E & L); High SG (E); Susc. to Vert/ED; Res. to scab & Fus (sam); High Process merit (E) and Fresh Merit (E&L)	
10 AOR06070-1KF	2 Proc	687	574	83	7.2	8.8	1.093	0.2	3.9	3.0	High Tot.&US Ylds(E&L);High Oversize Yld(E&L);High SG(E&L);Shatter bruise;Higher IBS(HRM) CSR&lower S. Ends;Vert/ED&EB Res.;Higher protein&Vit C;High Process&Fresh Merit(L)	
11 CO04220-7RU	1 Dual	515	340	67	4.4	4.5	1.081	1.0	2.6	2.6	Low Tot.(L)&US Yld(E&L);Low Oversize%&Yld(E&L)&High undersize%&Yld(E&L);Small tuber size (E&L);IBS&NN/VD;Higher IBS(Hrm);Vert/ED Susc.;Scab&Fus(sam) Res; Lower Process Merit(E)	
12 CO05068-1RU	3 Dual	635	550	86	6.5	7.6	1.092	0.4	4.0	3.0	High Total & US Yields (E&L); High SG (E & L); Susc. to B. Spot (L & AB); CSR & lower S. Ends; Res. To Vert/ED & EB; Susc. to scab; High Process merit (L)	Grad
13 CO05152-5RU	1 Fresh	600	486	81	5.6	6.2	1.080	1.8	2.5	2.9	Low Oversize % & Yield (E); Res. to scab; Higher protein; Low Process Merit (L);	
14 CO05175-1RU	3 Fresh	525	423	81	6.4	7.4	1.080	0.9	2.9	3.0	Res. to Vert/ED, EB, and soft rot; Higher Vit. C;	Grad
15 COTX09022-3RuRE/Y	2 Fresh	555	464	84	6.6	6.1	1.085	0.7	2.6	2.4	High US Yield (E); Rounded tuber (E&L); B. spot bruise (E); CSR & Lower S. Ends; Susc. to scab; Higher Vit. C; Lower Process Merit (E) and Fresh Merit (L)	
16 COTX09052-2Ru	2 Fresh	537	438	80	5.3	5.6	1.079	0.4	3.4	3.3	Low Oversize Yield (E&L) and % Oversize (L); High Undersize % & Yield (E&L); Low SG (L); CSR; Vert/ED Susc.; Res. To EB; High Fresh Merit (E&L)	
17 TX08352-5Ru	2 Dual	596	489	80	5.5	5.8	1.067	2.3	2.3	3.4	Low Oversize%&Yield (E&L);High Undersize Yield(E&L);Low SG(E&L)&solids;BS bruise(Oth-L); Vert/ED Susc.;Scab&Fus(sam) Res.;higher dextrose; Higher Process Merit(E)& Low Merit(L);High Fresh Merit(E)	
Entry Means		570	466	81	6.5	7.3	1.083	1.0	3.1	2.9		

¹ Numeric values represent means across all trial locations.

² Data shown from late trial results unless early trial entry only. (Entries 4)

³ Data shown from combined early & late trial results.

TABLE 16: 2016 Western Regional Potato Variety Trial - 3 YEAR SUMMARY OF GRADUATING ENTRIES - LATE TRIAL LOCATION MEANS

Clone	2014						2015						2016					
	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	
A03921-2	589 (1/16)	499 84	1.099	1.0	3.1	3.9	590 (8/19)	590 82	1.100	0.5	2.4	3.3	589 (7/16)	504 87	1.095	0.5	2.9	3.6
A06021-1T	476 (12/16)	424 80	1.083	1.7	3.7	3.2	505 (15/19)	505 89	1.085	0.8	3.0	2.9	459 (16/17)	394 85	1.082	1.3	3.0	3.1
CO05068-1RU	580 (2/16)	510 87	1.097	0.7	2.8	3.6	606 (6/19)	606 85	1.097	0.2	2.6	3.2	635 (2/17)	550 86	1.092	0.4	3.0	4.0
CO05175-1RU	543 (4/16)	452 83	1.082	1.2	3.1	3.8	565 (10/19)	565 80	1.080	0.7	2.9	2.8	525 (13/17)	423 81	1.080	0.9	3.0	2.9
RANGER R.	531 (7/16)	427 80	1.085	1.8	2.6	2.6	607 (4/19)	454 75	1.088	1.1	2.3	2.9	592 (6/17)	479 80	1.083	1.0	2.7	3.1
R. NORKOTAH	418 (16/16)	363 86	1.072	2.3	3.1	2.0	454 (16/19)	382 84	1.069	1.4	2.7	1.9	488 (15/17)	397 80	1.072	1.3	2.9	2.3
R. BURBANK	538 (5/16)	373 68	1.078	2.4	1.9	2.4	606 (6/19)	385 64	1.081	1.0	1.8	2.3	579 (9/16)	427 73	1.080	1.2	2.2	2.7
Trial Mean	509	424 83	1.083	1.2	2.8	3.3	556	450 80	1.085	0.7	2.8	2.5	572	470 82	1.083	1.0	2.9	3.1

3 Year Average (2014-2016)

Clone	Total Yield ¹ &(rank) ²	US #1 Yield ¹ %	SG	FRY 45	Merit Score			Noted Weaknesses	Noted Strengths
					Fresh	Proc	Proc		
A03921-2	589 (69)	531 84	1.098	0.7	2.8	3.6	Too High Specific Gravity (L: 3/3 years);	High Process Merit (L:3/3 years); Higher Specific Gravity (E: 3/3 years); High % oversize (L: 2/3); High Vit. C (3/3); Cold-sweetening Resistant (3/3);	
A06021-1T	480 (17)	441 85	1.083	1.3	3.2	3.1	Susceptible to Vert. Wilt/Early Die (2/3 years);	High % U.S. No. 1 yield (E & L: 2/3 years); High Process Merit (E: 2/3); High Fresh Merit (L:2/3)	
CO05068-1RU	607 (81)	555 86	1.095	0.4	2.8	3.6	Too High Specific Gravity (L: 3/3 years); Hollow Heart (L: 2/3 years); Susceptible to common scab (2/3);	High Process Merit(L:2/3 years);High Tot.&US. No.1 yields(2/3 years); Higher S.G. (E:3/3 years); Resistant to EB (3/3),Vert Wilt/E. Die (2/3)& soft rot (2/3)	
CO05175-1RU	544 (49)	480 81	1.081	0.9	3.0	3.2	Hollow Heart (L: 2/3 years);	High Fresh Merit (L: 2/3 years); Resistant to Vert Wilt/Early Die and Early Blight (2/3 years); Higher Vit. C (2/3)	
RANGER R.	577 (67)	454 78	1.085	1.3	2.5	2.9			
R. NORKOTAH	454 (09)	380 83	1.071	1.6	2.9	2.1			
R. BURBANK	574 (60)	395 68	1.080	1.5	1.9	2.5			
Trial Mean³	546	448 82	1.084	1.0	2.8	3.0			

¹ (CWT/A)

² Percent of entries with lower yields; e.g. 69% of all late trial entries over three years yielded lower than A03921-2

³ Late Trial means of all trial entries 2014-2016

TABLE 17: 2016 Western Regional Potato Variety Trial - ENTRY COMMENTS - EARLY HARVEST

No. Clone	ID PAR	TX		OR ¹ HRM	WA OTH
		DAL	SPR		
1 Ranger Russet	smooth	rough, poor shape	pointed, some rough, feathering, small, nice shape and skin	x2 tuber worm, x3 curvy, x3 sticky, x2 pointy	Nice size, typy.
2 Russet Burbank	small	skinny, rough,	misshapen, pointed, drop, very small, ZC++, nice skin, heat sprouts++	x2 bottle, x3 knobs, x3 curvy, x4 irregular	Irregular shapes, some rot.
3 Russet Norkotah	smooth, nice	skinny, curved, variable size	second set, ZC, nice shape, small, nice skin	x4 tuber worm damage, x2 greening, x4 typy	Mostly typy.
4 Shepody	light russet	white skin, rough, poor shape	drop, some rough, white skin, heat sprouts++	x3 irregular, x3 curvy, x3 sprouting, x2 big bulky	Huge, with irregular shapes.
5 A03141-6	patchy skin, poor skin appearance	rough, pointed, light skin, skinny	deep eyes, drop, feathering, light skin, heat sprouts, nice shape, small	x2 bulky big, x2 rot, x4 skinning, x2 pear shape, x2 irregular, x2 lenticel	Irregular shapes, spotty russetting, DISCARD
6 A03921-2	nice looking, good shape, nice color	light skin, pointed	light skin, small, some road map, very white flesh	x2 sticky, x2 skinning, x2 cracked skin, x3 lenticels	Light buff russet, irregular shape.
7 A06021-1T	dark russet	small, skinny, variable size	nice skin, smooth	x2 low yield, x4 lenticels, x2 cracked skin, x2 irregular russet	Bad skin, nice size.
8 AO03123-2	deeper eyes, irregular shape, patchy skin	skinny, curved	light skin, small, nice shape	x2 pr. Eyes, x2 blk, x3 sticky, x3 cracked skin	Small, irregular shapes
9 AO06191-1	good looking, consistant shape, good size	curved, rough, large tubers	pointed, nice dark skin, small	x4 typy, x3 heavy russet, x2 sticky, x2 fm	Typy, dark russet, poor skin set.
10 AOR06070-1KF	roundish, irregular size, point ends	nice skin, small, second set, pointed	poor russet skin, drop, some road map, nice shape, small	x3 SB, x4 cracked skin, x4 bulky	Irregular shapes, ok size.
11 CO04220-7RU	small, pointed ends	skinny, small, pointed	nice, variable size, heavy set, nice skin, too small, drop	x4 pointy, x3 bottle, x2 thin, small/short	Small, baby potatoes, not early.
12 CO05068-1RU	skinning, bumpy	drop, blocky, round to oblong, flat, skinny, deep eyes	heat sprouts, very small, feathering, heat sprouts++, drop+++	x2 flaky, x4 skinning, x3 greening, x3 sprouting	Flat, irregular shapes like RB.
13 CO05152-5RU	on the round side, good skin	nice skin, very small, second set	heavy set, late, heat sprouts, very small, nice skin	x4 short, cracked, sprouting	Irregular shape, not an early variety.
14 CO05175-1RU	good looking, blocky, good shape	yield+, poor shape, curved, rough	drop+++ , poor shape, skinny, second set	x2 curvy, x2 pointy, x2 irregular russet, x2 typy, x2 sprouting	Typy, some large, not great skin.
15 COTX09022-3RuRE/Y	round, pink eyes	BOT-, yield+, nice yellow flesh, red eyes, round to oblong	red eyes, round to oblong shape, nice flesh	x3 pink eye, x3 rot++, x3 sprouting, x3 discard	Looks like a river rock! DISCARD
16 COTX09052-2Ru	long, smooth	small ++ drop	variable size, nice skin, very small, high set	x2 rot, x2 short, x4 sticky, x3 typy	Flat, long, a lot of small ones.
17 TX08352-5Ru	pointy little, smooth, good shape	yield+, nice shape, BOT-	nice size, larger tubers, heavy set, BOT-	x2 cracked skin, x2 flaky, x4 typy, x3 short	Small, typy, not an early variety.

¹Number next to "x" indicates how many replications occurrence was observed.

TABLE 18: 2016 Western Regional Potato Variety Trial - ENTRY COMMENTS - LATE HARVEST

		Entry Comments - Late Harvest					
No.	Clone	CO SLV	ID ¹			OR ¹ HRM	WA OTH
			AB	KIM	PAR		
1	Ranger Russet	.	Mr, misshapen (4), cuved (2) green/ats	Mr, few curves/misshapen (3) few green (2)	curved, misshapen	x3 flat, x2 sticky, x3 curvy	Typy, long, large.
2	Russet Burbank	.	Mr, misshapen (4), geen (2), bumps, not uniform	Mr, misshapen/bumps (3)	misshapen, bumpy	x2 curvy, x2 pointy, x2 rot++, ugly	Good length and size, non uniform skin.
3	Russet Norkotah	.	Mhr, few points (2), nice shape, few green	Hr, some misshapen (2) some green	pointed ends, smooth	x3 worm damage, x2 rot	Non uniform russetting, bad skin.
4	Shepody	powdery scab	.	.	.	.	.
5	A03141-6	pink inside, blocky, light russet	Mlr, patchy (3), not uniform/shatter (2)	Mlr, patchy (3) some shatter/green (2)	big, skinning	x3 bottle, x3 pointy, x2 XL, x2 skinning, x2 knob	Large, plump, non uniform shape.
6	A03921-2	light russet	Mlr, green (4), shatter (3), patchy (2)	Mr, green (4) some shatter (3) few flat (2)	blocky, uniform, big	x4 pointy, x4 bottle, x4 rot, x2 curvy	Very large, ugly skin, plump.
7	A06021-1T	.	Hr, uniform/goodshape (2) few bumps/green	Hr, uniform/slight checking (2)	not consistent shape	x3 typy, x3 low yield, x2 rot, x2 cracked skin	Nice size and legnth, ugly skin.
8	AO03123-2	.	Mr, few ats (3), some shatter (2)	Mr, uniform with a few misshapen (3) few ats (2)	pointy, bumpy, irregular	x4 bottle, x4 pointy, x2 cracked skin, x3 sticky	Non-uniform shape, a bit short, ugly.
9	AO06191-1	.	OCW21	Hr, uniform (4), few green/flat (2) slight checking	heavy russet, alligator skin	x4 typy, x3 pr. Eyes, x2 sticky	Very nice shape and size, typy, dark russet.
10	AOR06070-1KF	.	Mhr, shatter (3), green (2)	Mhr, shatter (4), some green (3), uniform/blocky (2)	thumbnail cracks, pointy ends	curvy x 2, cracky x 2, SB x 3, bottle x 4, pointy x 3	Large, bad roadmapping. Scab.
11	CO04220-7RU	.	Mhr, fairly uniform/slight brow (3)	Mhr, few points (4), fairly uniform (2)	very small	pointy x 3, thin x 4, curvy x 2	Too small, pointy, DISCARD.
12	CO05068-1RU	skinning	Mr, skinned (4), bumps, misshapen, green, shatter	Mr, slight shatter (3) pink eyes (2) few bumps/misshapen	bad skinning	flaky x 4, lenticels x 2, pixel x 2	Poor skin set, irregular shapes.
13	CO05152-5RU	.	Hr, some shatter (3), checking, green	Mhr, some shatter/misshapen (2)	average, roundish	dotty x 2, pixel x 3, sticky x 2	Round, too small.
14	CO05175-1RU	.	Mhr, few misshapen/curving (2)	Mr, few misshapen (4), green (2)	irregular	typy x 3, spr x 3, pixel x 2, dotty x 2	Non uniform shape and size.
15	COTX09022-3RuRE/Y	not a russet type	Mhr, pink eyes, few ats (3), some shatter (2)	Mr, pink eyes/sprouting/yellow flesh, deep ends (4), flat (2)	round, ATS, pink eyes	ugly x 3, spr x 4, flaky x 3, chain x 3, pink eyes x 2	Round, pink eyes, DISCARD!!! UGLY
16	COTX09052-2Ru	.	Mhr, green (3) good shape/slight brow (2)	Mr, uniform/flat (4), some shatter (2)	smooth	typy x 4, rot x 2, sticky x 2	Flat uniform shape, mostly typy.
17	TX08352-5Ru	.	Mhr, some shatter/nice shape (2), slight brow, some shatter	Mhr, uniform (4), good shape (3), some shatter (2),	blocky	typy x 3, flakey x 3, cracky x 3, rot x 4, sticky x 2	Small, uniform shape, short.

¹Number next to "x" or in parenthesis indicates how many replications occurrence was observed.