

2017 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS Cooperating

California

Colorado

Idaho

Oregon

Texas

Washington



2017 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

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Western Regional Potato Variety Trial Reports (1998-2017) can be accessed at the following website.

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

Compiled by Brian Schneider

TABLE 1: 2017 Western Regional Potato Variety Trial - LOCATIONS, COOPERATORS, AND CULTURAL INFORMATION

No. Locations	Cooperators	Trial Irrigation		Fertilizer N-P-K-S(lb/A)	Planting Date	Harvest Date	Days to Vine Kill	Days to Harvest	Herbicides	Pesticides Applied ¹		
										Insecticides	Fungicides	
1	Tulelake California (TUL) R. Wilson, D. Culp	Late	Sprink.	205-0-0	24-May	12-Oct	111	141	Prowl H2O Outlook, Matrix Roundup PM	Admire Pro Vydate	Quadris Omega Tanos	
2	San Luis Valley Colorado (SLV) D. Holm, C. Gray	Late	Pivot	122-60-80-25+2.5Zn	15-May	25-Sep	100	133	Chateau Dual Magnum Reglone	Mineral Oil Leverage, Fulfill	Bravo Ultrex Endura, Quadris	
3	Aberdeen Idaho (AB) J. Stark, R. Novy, J. Whitworth, C. Lowder, J Hatch	Late	Sprink.	225-120-83-30+5Zn-5Mn	5-May	19-Oct	118	167	TriCor 4F Matrix, Eptam	Admire Pro		
4	Kimberly Idaho (KIM) J. Stark, R. Novy, J. Whitworth, C. Lowder, J Hatch	Late	Sprink.	365-300-325	28-Apr	3-Oct	131	158	Select2EC Eptam-7E	Rimon	Luna Tranquility Zing, Fulfill, Dithane	
5	Parma Idaho (PAR) M. Thornton, R. Portenier O. Adams	Early Late	Sprink. Sprink.	222-160-100 292-107-100	12-Apr 3-May	16-Aug 26-Sep	103 128	126 146	Outlook, Matrix Prowl H2O Eptam, Reglone	Admire Pro Movento Lannate LV	Quadris, Bravo Endura, Luna T	
6	Hermiston Oregon (HRM) S. Sathuvalli	Early Late	Pivot Pivot	340-90-60-163+25Mg-3B-2.25Zn 410-90-60-163+25Mg-2.25Zn-3B	23-Mar 4-Apr	17-Aug 15-Sep	140 146	147 164	Vapam, Prowl Dual magnum Matrix, Outlook	Admire Coragen Agr-Mek, Echo	Quadris, Ridomil Omega, Dithane	
7	Dalhart Texas (DAL) I. Vales J. Koym, D. Schuering	Early	Pivot	206-190-10	18-May	22-Sep	104	127	K-Tone, Zidual Para-Shot 3 Cornerstone 5 Plus StareDown, ETX, Reglone Zidual, Select Max, Matrix SG	Cruiser Maxx Fulfill	Curzate 60DF	
8	Othello (OTH) Othello (OTH) Washington M. Pavek, R. Knowles	Early Late	Linear Pivot	200-100-150-20+2B 365-300-250-40+2B	4-Apr 4-Apr	31-Jul 11-Sep	107 150	118 160	Outlook Prowl H2O Eptam	Platinum	Luna Tranquility Chloronil Bravo, Omega	

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

TABLE 2: 2017 Western Regional Potato Variety Trial - CLONE, PARENTAGE, FLOWER COLOR, ENTRY SUBMISSION, USE, TRIAL, YEARS IN TRIAL, SEED SOURCE, STAND, TUBER AND VINE CHARACTERISTICS

No.	Clone	Parents	Flower Color ¹	Entered by	Use	Year in Trial	Seed Trial	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	4.5	Med Russet	3.3	Med-Large	4.0	Medium	3.3	2.4
2	Russet Burbank	Early Rose ?	W	Ck	Dual	E/L	-	OR	96	Long	4.2	Med Russet	3.4	Large	4.1	Med Early	3.0	2.6
3	Russet Norkotah	ND9687-5Rus ND9526-4Rus	W	Ck	Fresh	E/L	-	OR	98	Long	4.1	Med Russet	4.0	Medium	3.0	Early	1.6	2.4
4	Shepody	Bake-King F58050	RP	Ck	Proc	E	-	OR	97	Long	4.1	Light Russet	2.1	Med-Large	3.8	Medium	3.1	1.8
5	A03141-6	A098083-9 Premier Russet	W	ID	Dual	E/L	3	OR	98	Obl-Lng	3.7	Light Russet	2.9	Large	4.3	Med-Late	3.7	2.3
6	A06030-23	A99133-6 Premier Russet	W	ID	Dual	E/L	1	OR	97	Long	4.1	Med Russet	3.8	Med-Large	3.1	Early	2.2	2.5
7	A07061-6	Targhee Russet Clearwater Russet	RP	ID	Dual	E/L	1	OR	98	Oblong	3.2	Light Russet	2.4	Large	4.2	Medium	3.5	2.9
8	A08009-2TE	A00727-1 A02060-3TE	W	ID	Fresh	E/L	1	OR	99	Obl-Lng	3.8	Med Russet	3.7	Med-Large	3.6	Med Early	3.0	3.1
9	A08433-4sto	A01667-3 ACOND95249-1Russ	W	ID	Dual	E/L	1	OR	97	Oblong	3.4	Med Russet	3.4	Large	4.1	Med-Late	3.8	1.8
10	AO03123-2	A98082-17 Premier R	W	OR	Dual	E/L	3	OR	99	Obl-Lng	4.0	Med Russet	3.1	Med-Large	3.8	Medium	3.4	2.7
11	AO06191-1	A99134-1 AC92009-4RU		OR	Dual	E/L	2	OR	95	Obl-Lng	3.8	Med Hvy Rus	4.2	Med-Large	3.6	Med Early	2.9	1.8
12	AOR06070-1KF	Premier R AO96164-1	W	OR	Proc	E/L	3	OR	98	Obl-Lng	4.0	Med Russet	3.3	Med-Large	3.8	Medium	3.4	2.6
13	AOR07781-5	PA92A08-17 PALB03035-6	W	OR	Dual	E/L	1	OR	96	Obl-Lng	4.0	Med Russet	3.9	Med-Large	4.0	Medium	3.1	3.1
14	CO08065-2RU	Premier Russet AC98043-2RU	W	CO	Dual	E/L	1	CO	97	Oblong	3.5	Med Hvy Rus	4.3	Med-Large	3.7	Medium	3.1	2.7
15	CO08155-2RU/Y	Fortress Russet Innovator	W	CO	Dual	E/L	1	CO	94	Obl-Lng	3.7	Med Russet	3.6	Med-Large	3.6	Early	2.5	2.4
16	CO08231-1RU	Crestone Russet Sage Russet	W	CO	Fresh	E/L	1	CO	96	Oblong	3.5	Med Russet	3.2	Med-Large	3.5	Medium	3.3	2.7
17	COTX09022-3RuRE/Y	A00286-3Y CO99100-1RU	W	TX	Fresh	E/L	3	TX	98	Rnd-Obl	2.2	Med Russet	3.4	Med-Large	3.4	Med Early	2.8	3.6
18	TX08352-5Ru	TXA549-1Ru AOTX98137-1RU	W	TX	Fresh	E/L	3	TX	95	Obl-Lng	3.8	Med Russet	3.5	Med-Large	3.1	Early	1.8	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: 2017 Western Regional Potato Variety Trial - TOTAL YIELD (CWT/A) - EARLY AND LATE HARVEST

No. Clone	Total Yield - Early Harvest (CWT/A)					Total Yield - Late Harvest (CWT/A)							
	ID	OR	TX	WA	Entry	CA	CO	ID		OR	WA	Entry	
	PAR	HRM	DAL	OTH	Mean/Rank	TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank
1 RANGER R.	367	471	397	453	422 12 bcd	491	305	.	.	556	613	754	544 7 abc
2 R. BURBANK	405	463	336	428	408 15 cd	467	351	513	414	597	474	752	510 9 abc
3 R. NORKOTAH	479	397	598	545	505 2 ab	422	.	319	339	448	269	685	413 16 c
4 SHEPODY	398	436	449	476	440 10 abcd	.	.	.	.	.	.	.	.
5 A03141-6	392	493	452	439	444 9 abcd	527	366	.	449	626	713	873	592 3 ab
6 A06030-23	460	351	420	418	412 14 cd	418	310	329	257	487	411	634	407 17 c
7 A07061-6	437	331	493	485	437 11 abcd	569	450	562	490	737	519	981	615 1 a
8 A08009-2TE	416	457	523	438	458 6 abcd	539	390	468	406	602	594	862	552 4 abc
9 A08433-4sto	412	420	537	532	475 4 abc	576	437	601	476	641	583	844	594 2 ab
10 AO03123-2	349	488	385	411	408 15 cd	487	351	350	392	560	595	721	494 12 abc
11 AO06191-1	337	469	321	439	392 17 cd	435	338	.	337	496	525	695	471 13 abc
12 AOR06070-1KF	386	430	407	437	415 13 cd	516	425	541	411	613	522	819	550 6 abc
13 AOR07781-5	331	552	478	499	465 5 abcd	483	323	.	421	511	577	794	518 8 abc
14 CO08065-2RU	345	417	267	497	382 18 d	376	331	366	355	498	506	738	453 14 abc
15 CO08155-2RU/Y	402	495	383	509	447 7 abcd	486	335	282	321	521	504	721	453 14 abc
16 CO08231-1RU	419	487	401	477	446 8 abcd	453	357	351	373	638	527	795	499 11 abc
17 COTX09022-3RuRE/Y	471	.	575	513	520 1 a	537	388	442	483	613	.	847	552 4 abc
18 TX08352-5Ru	506	507	522	474	502 3 ab	471	307	450	374	589	532	804	504 10 abc
Location Means	406	451	441	471	443	486	360	429	394	572	529	783	513

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: 2017 Western Regional Potato Variety Trial - YIELD OF U.S. #1'S [CWT/A (upper) and % (lower)] - EARLY AND LATE HARVEST

No. Clone	U.S. No. 1's - Early Harvest (CWT/A) and %							U.S. No. 1's - Late Harvest (CWT/A) and %									
	ID	OR	TX	WA	Entry		CA	CO	ID		OR	WA	Entry				
	PAR	HRM	DAL	OTH	Mean/Rank		TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank			
1 RANGER R.	303	355	279	360	324	12	bcde	396	267	.	.	442	460	639	441	7	abc
	84	75	72	80	78	7		81	87	.	.	80	75	85	81	11	
2 R. BURBANK	275	255	169	227	232	18	f	349	256	337	225	505	291	624	369	13	abc
	68	55	49	53	56	18		75	73	66	53	85	61	83	71	17	
3 R. NORKOTAH	438	275	486	460	415	1	a	364	.	260	268	382	153	598	338	16	bc
	91	69	81	84	82	2		86	.	81	79	85	57	87	79	13	
4 SHEPODY	338	301	256	415	328	10	bcde	.	.	.	.	.	.	.	.	.
	85	69	57	87	75	10		.	.	.	.	.	.	.	.	.
5 A03141-6	323	403	300	398	356	5	abcd	465	342	.	391	605	569	803	529	1	a
	83	82	66	91	80	3		88	93	.	87	97	80	92	90	1	
6 A06030-23	362	267	341	338	327	11	bcde	309	268	275	191	427	311	569	336	17	c
	77	76	82	81	79	5		74	86	84	74	88	76	90	82	10	
7 A07061-6	342	162	374	256	284	16	def	463	404	502	403	650	328	869	517	2	a
	78	49	76	53	64	17		81	90	90	82	88	63	89	83	6	
8 A08009-2TE	341	282	366	304	323	13	bcde	447	337	356	310	481	416	752	443	6	abc
	81	62	70	70	71	15		83	86	76	77	80	70	87	80	12	
9 A08433-4sto	347	310	358	394	352	6	abcd	425	396	523	377	579	420	742	495	3	ab
	84	74	65	74	74	11		74	91	87	79	90	72	88	83	6	
10 AO03123-2	274	401	298	239	303	15	cdef	397	327	262	331	497	469	649	419	9	abc
	79	82	75	58	74	11		82	93	75	85	89	79	90	85	3	
11 AO06191-1	300	431	274	393	349	7	abcd	348	312	.	295	455	461	639	418	11	abc
	89	92	85	90	89	1		80	93	.	88	92	88	92	89	2	
12 AOR06070-1KF	327	326	333	345	333	8	abcde	424	388	417	368	569	393	733	470	5	abc
	84	76	82	79	80	3		82	91	77	89	93	75	90	85	3	
13 AOR07781-5	272	440	363	400	369	4	abcd	348	280	.	320	452	476	713	431	8	abc
	82	80	75	80	79	5		72	87	.	76	88	82	90	83	6	
14 CO08065-2RU	168	279	194	351	248	17	ef	286	295	292	287	310	312	641	346	14	abc
	49	67	73	71	65	16		76	89	80	82	62	62	87	77	14	
15 CO08155-2RU/Y	328	326	279	340	318	14	bcdef	353	294	221	224	349	347	588	339	15	bc
	82	66	73	67	72	14		73	88	78	70	67	69	81	75	16	
16 CO08231-1RU	328	333	300	363	331	9	abcde	328	327	286	275	461	343	678	385	12	abc
	79	68	75	76	74	11		72	92	81	73	72	65	85	77	14	
17 COTX09022-3RuRE/Y	371	.	429	410	403	2	ab	455	347	385	359	513	.	785	474	4	abc
	79	.	74	80	78	7		85	90	87	74	84	.	93	85	3	
18 TX08352-5Ru	436	424	433	244	384	3	abc	367	233	412	328	481	414	698	419	9	abc
	86	84	83	52	76	9		78	76	91	87	82	78	87	83	6	
Location Means	326	328	324	347	332			384	317	348	309	480	385	689	422		
	80	72	73	74	75			79	88	81	78	84	72	88	82		

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

TABLE 5: 2017 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 (CWT/A) and %									
	ID	OR	TX	WA	Entry		CA	CO	ID		OR	WA	Entry				
	PAR	HRM	DAL	OTH	Mean	Rank	TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean	Rank		
1 RANGER R.	125	81	37	69	78	10	cdefg	194	143	.	.	151	155	313	191	5	bcd
	35	17	9	15	19	8		39	47	.	.	26	25	42	36	4	
2 R. BURBANK	66	12	23	51	38	16	fg	107	56	181	85	160	38	297	132	10	bcde
	16	3	6	12	9	16		23	16	35	19	27	8	39	24	11	
3 R. NORKOTAH	271	33	107	92	126	4	abcd	202	.	85	80	105	14	227	119	13	cde
	56	8	18	17	25	5		48	.	26	23	23	5	33	26	10	
4 SHEPODY	143	122	65	199	132	3	abc	.	.	.	.	.	.	.	.	.
	35	28	14	42	30	3		.	.	.	.	.	.	.	.	.
5 A03141-6	146	214	113	173	161	1	a	356	139	.	283	422	476	697	396	1	a
	37	43	24	39	36	2		68	38	.	63	67	80	80	64	1	
6 A06030-23	158	26	53	27	66	11	cdefg	147	28	81	23	125	54	266	103	15	de
	36	7	12	6	15	11		35	9	24	9	25	13	42	22	14	
7 A07061-6	72	12	39	19	35	17	fg	147	84	282	175	209	11	370	183	6	bcd
	16	4	8	4	8	17		26	19	50	35	28	2	38	28	9	
8 A08009-2TE	90	32	56	20	49	14	efg	189	67	59	85	126	60	317	129	11	cde
	20	7	11	5	11	14		35	17	12	21	21	10	37	22	14	
9 A08433-4sto	172	130	28	49	95	7	abcdef	102	117	343	186	276	80	448	222	4	bc
	41	31	5	9	22	6		18	27	57	39	43	14	53	36	4	
10 AO03123-2	63	121	53	3	60	12	defg	176	76	119	88	132	195	263	150	9	bcde
	18	25	15	1	15	11		36	22	34	24	24	33	36	30	7	
11 AO06191-1	120	254	123	109	152	2	ab	199	78	.	207	301	202	487	246	2	b
	36	54	38	25	38	1		46	23	.	60	61	39	70	50	2	
12 AOR06070-1KF	148	97	95	98	110	5	abcde	141	78	.	155	169	160	391	182	7	bcd
	37	23	24	22	26	4		27	41	50	53	32	24	47	39	3	
13 AOR07781-5	66	95	122	136	104	6	abcdef	214	176	271	220	192	127	387	227	3	bc
	21	17	25	27	22	6		44	24	.	37	33	28	49	36	4	
14 CO08065-2RU	12	12	12	54	23	18	g	121	118	113	46	21	15	313	107	14	de
	4	3	5	11	6	18		32	36	31	13	4	3	42	23	13	
15 CO08155-2RU/Y	93	14	25	65	49	14	efg	44	59	42	44	21	26	133	53	17	e
	23	3	7	13	11	14		9	18	15	13	4	5	18	12	17	
16 CO08231-1RU	116	24	39	50	57	13	defg	99	118	99	76	101	44	313	121	12	cde
	27	5	10	10	13	13		22	33	28	20	16	8	39	24	11	
17 COTX09022-3RuRE/Y	115	.	64	103	94	8	abcdef	172	110	113	51	159	.	432	173	8	bcd
	24	.	11	20	18	9		32	28	25	10	26	.	51	29	8	
18 TX08352-5Ru	144	69	132	0	86	9	bcdefg	137	14	182	69	65	71	116	93	16	de
	29	14	25	0	17	10		29	4	40	18	11	13	14	19	16	
Location Means	118	80	62	77	84			163	97	149	120	167	110	353	171		
	28	17	15	15	19			33	25	33	29	28	19	43	31		

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

TABLE 6: 2017 Western Regional Potato Variety Trial - YIELD < 4 OZ [CWT/A (upper) & % (lower)] - EARLY AND LATE HARVEST

No. Clone	Yield < 4 OZ - Early Harvest (CWT/A) and %							Yield < 4 OZ - Late Harvest (CWT/A) and %									
	ID	OR	TX	WA	Entry		CA	CO	ID			OR	WA	Entry			
	PAR	HRM	DAL	OTH	Mean/Rank		TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank			
1 RANGER R.	33	69	67	74	61	12	bcdef	47	28	.	.	87	68	51	56	9	abcd
	9	15	16	16	14	11		10	9	.	.	16	11	7	10	11	
2 R. BURBANK	73	112	30	145	90	8	abcd	64	76	33	40	80	103	54	64	7	abc
	18	24	10	34	21	5		14	22	6	10	13	22	7	13	6	
3 R. NORKOTAH	38	86	76	63	66	11	bcdef	29	.	39	51	64	88	52	54	11	bcd
	8	22	13	12	14	11		7	.	13	16	15	33	8	15	4	
4 SHEPODY	40	71	49	30	48	16	def	.	.	.	.	.	.	.	.	.	.
	11	16	11	6	11	16		.	.	.	.	.	.	.	.	.	.
5 A03141-6	33	25	43	30	33	17	ef	15	17	.	16	14	36	7	17	17	d
	8	5	10	7	7	17		3	5	.	3	2	5	1	3	17	
6 A06030-23	49	66	49	68	58	13	bcdef	29	38	33	63	41	86	41	47	14	cd
	10	19	12	16	14	11		7	12	10	25	9	21	6	13	6	
7 A07061-6	80	158	105	205	137	1	a	77	34	25	49	82	176	77	74	4	abc
	19	48	21	42	32	1		13	8	4	10	11	34	8	13	6	
8 A08009-2TE	70	112	56	117	89	9	abcd	38	45	70	58	79	143	53	69	5	abc
	18	25	11	27	20	8		7	12	15	14	13	24	6	13	6	
9 A08433-4sto	42	76	150	96	91	7	abcd	95	32	32	42	54	133	52	63	8	abc
	10	18	29	18	19	10		17	7	5	9	8	23	6	11	10	
10 AO03123-2	65	57	45	161	82	10	bcde	37	23	28	35	61	109	52	49	12	cd
	19	12	13	39	21	5		7	7	8	8	11	18	7	10	11	
11 AO06191-1	33	24	19	36	28	18	f	30	22	.	14	20	34	18	23	16	d
	10	5	6	8	7	17		7	7	.	4	4	7	3	5	16	
12 AOR06070-1KF	52	72	31	75	57	14	bcdef	67	25	50	18	42	100	44	49	12	cd
	14	17	8	17	14	11		13	6	9	5	7	19	5	9	14	
13 AOR07781-5	42	84	47	45	54	15	cdef	28	33	.	40	55	73	33	44	15	cd
	13	15	10	9	12	15		6	10	.	9	11	13	4	9	14	
14 CO08065-2RU	96	122	59	94	93	6	abcd	49	18	43	59	177	178	44	81	3	abc
	28	29	22	19	24	2		13	5	11	16	36	35	6	17	3	
15 CO08155-2RU/Y	69	146	86	131	108	2	ab	90	36	48	83	166	138	83	92	2	ab
	17	30	22	26	24	2		19	11	17	26	32	27	11	20	1	
16 CO08231-1RU	72	139	97	90	99	5	abcd	101	24	45	87	166	159	92	96	1	a
	17	29	24	19	22	4		22	7	13	24	26	30	12	19	2	
17 COTX09022-3RuRE/Y	93	.	142	81	105	3	abc	50	24	35	100	80	.	39	55	10	bcd
	20	.	25	16	20	8		9	6	8	21	13	.	5	10	11	
18 TX08352-5Ru	62	72	43	227	101	4	abc	48	69	24	38	103	100	94	68	6	abc
	12	14	8	48	21	5		10	23	5	10	18	19	12	14	5	
Location Means	58	88	66	98	78			53	34	39	50	81	108	52	59		
	14	20	15	21	18			11	10	10	13	14	21	7	12		

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

TABLE 7: 2017 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	Entry					
	PAR	HRM	DAL	OTH	Mean/Rank	TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank				
1 RANGER R.	1.075	1.064	1.070	1.075	1.071	8	bcdefg	1.092	1.092	.	.	1.092	1.073	1.089	1.088	7	cdef
2 R. BURBANK	1.073	1.068	1.057	1.066	1.066	14	efgh	1.086	1.091	1.078	1.075	1.071	1.073	1.088	1.080	14	f
3 R. NORKOTAH	1.070	1.060	1.061	1.076	1.067	13	defgh	1.073	.	1.072	1.072	1.067	1.067	1.076	1.071	16	g
4 SHEPODY	1.073	1.062	1.070	1.077	1.071	8	cdefg	.	.	.	.	.	.	.	.	.	.
5 A03141-6	1.082	1.071	1.062	1.084	1.075	5	abcd	1.095	1.103	.	1.086	1.090	1.077	1.094	1.091	5	abcd
6 A06030-23	1.084	1.063	1.073	1.070	1.073	7	abcdef	1.085	1.094	1.086	1.078	1.083	1.075	1.085	1.084	11	def
7 A07061-6	1.071	1.054	1.066	1.070	1.065	16	fgh	1.082	1.089	1.084	1.078	1.081	1.065	1.082	1.080	14	f
8 A08009-2TE	1.071	1.061	1.067	1.067	1.066	14	efg	1.092	1.095	1.086	1.084	1.085	1.073	1.086	1.086	9	cdef
9 A08433-4sto	1.068	1.061	1.062	1.062	1.063	17	gh	1.095	1.096	1.081	1.082	1.081	1.069	1.081	1.084	11	def
10 AO03123-2	1.080	1.065	1.066	1.069	1.070	10	cdefg	1.091	1.092	1.080	1.086	1.092	1.076	1.097	1.088	7	cdef
11 AO06191-1	1.081	1.073	1.073	1.075	1.075	5	abcd	1.094	1.105	.	1.088	1.086	1.086	1.092	1.092	4	abcd
12 AOR06070-1KF	1.086	1.075	1.076	1.080	1.079	3	ab	1.103	1.112	1.098	1.098	1.100	1.082	1.094	1.098	1	a
13 AOR07781-5	1.085	1.077	1.074	1.084	1.080	1	a	1.106	1.099	.	1.086	1.087	1.078	1.099	1.093	3	abc
14 CO08065-2RU	1.088	1.076	1.077	1.079	1.080	1	a	1.100	1.110	1.095	1.097	1.097	1.088	1.096	1.097	2	ab
15 CO08155-2RU/Y	1.072	1.067	1.065	1.071	1.069	11	cdefgh	1.089	1.094	1.084	1.077	1.080	1.073	1.074	1.082	13	ef
16 CO08231-1RU	1.074	1.063	1.066	1.070	1.068	12	cdefgh	1.089	1.097	1.090	1.086	1.095	1.074	1.070	1.086	9	cdef
17 COTX09022-3RuRE/Y	1.077	.	1.073	1.079	1.076	4	abd	1.091	1.094	1.091	1.087	1.084	.	1.089	1.089	6	bcde
18 TX08352-5Ru	1.067	1.054	1.058	1.061	1.060	18	h	1.071	1.076	1.074	1.069	1.066	1.056	1.066	1.068	17	g
Mean	1.076	1.066	1.068	1.073	1.071			1.090	1.096	1.084	1.083	1.084	1.074	1.086	1.086		

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

TABLE 8: 2017 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 ¹											
	Early Trial						Late Trial						Early Trial						Late Trial						CA		CO		TX		ID		OR		WA ²	
	ID	OR	TX	WA	Mean	CA	ID	OR	WA	Mean	OR	TX	WA	Mean	CA	CO	ID	OR	WA	Mean	CA	CO	TX	SLV	SLV	SLV	SLV	SLV	AB	KIM	PAR	HRM	OTH			
1 RANGER R.	7.0	5.3	5.5	6.1	6.0	7.3	.	.	5.9	5.3	8.3	6.7	5.0	3.8	4.0	4.3	4.5	5.0	.	.	5.0	4.0	4.6	1.80	2.01	2.59	.	.	1.79	2.28	1.65					
2 R. BURBANK	5.7	3.9	5.4	4.8	5.0	6.3	8.0	7.2	5.8	4.0	8.2	6.6	5.0	4.3	3.0	4.1	4.5	4.0	4.1	4.0	5.0	4.0	4.3	1.99	1.92	2.75	2.05	2.11	2.55	2.18	1.65					
3 R. NORKOTAH	8.0	4.2	6.2	6.3	6.2	8.3	6.4	5.8	5.9	3.4	7.7	6.2	5.0	4.2	4.0	4.4	4.4	.	3.8	3.4	4.0	4.0	3.9	1.89	.	2.34	2.01	1.99	1.87	2.03	1.72					
4 SHEPODY	7.0	5.2	6.3	8.3	6.7	.	.	.	.	.	.	.	5.0	4.1	3.3	4.1	.	.	.	.	.	.	.	.	.	1.78	.	.	1.90	1.95	
5 A03141-6	7.0	7.6	7.4	7.9	7.5	10.6	.	11.6	10.5	8.5	14.7	11.2	5.0	4.5	3.7	4.4	3.9	3.0	.	3.4	4.0	2.5	3.4	1.69	1.69	2.56	.	1.77	1.86	1.91	1.49					
6 A06030-23	6.7	4.4	6.5	5.4	5.7	7.9	6.6	4.8	6.5	4.2	7.9	6.3	5.0	4.1	4.0	4.4	4.8	4.0	4.0	3.3	4.8	3.0	4.0	1.90	1.81	2.15	1.93	1.95	2.00	1.93	1.57					
7 A07061-6	5.0	2.8	4.7	4.1	4.2	6.1	8.2	7.0	6.1	3.6	7.6	6.4	4.0	4.0	2.7	3.6	3.9	3.0	3.6	3.4	2.0	2.0	3.0	1.55	1.68	2.15	1.98	1.80	2.10	1.54	1.47					
8 A08009-2TE	5.0	4.1	5.6	4.7	4.9	7.4	5.7	6.3	5.8	3.6	8.1	6.1	5.0	4.0	4.0	4.3	4.1	4.0	3.3	3.5	4.0	2.8	3.6	1.81	1.97	2.32	1.74	1.81	2.14	2.00	1.55					
9 A08433-4sto	6.7	5.2	4.6	5.6	5.5	5.0	9.1	7.4	7.3	4.1	9.2	7.0	4.3	3.8	3.0	3.7	4.0	3.0	3.5	3.3	3.0	2.5	3.2	1.51	1.70	2.01	1.64	1.81	1.52	1.74	1.62					
10 AO03123-2	5.0	5.6	5.9	4.2	5.2	7.2	7.7	6.9	5.9	4.8	7.5	6.7	5.0	4.4	3.7	4.4	4.4	4.0	3.4	4.0	4.5	3.8	4.0	1.81	1.87	2.84	2.05	2.10	2.12	2.05	1.78					
11 AO06191-1	7.0	8.2	8.6	7.1	7.7	8.2	.	10.0	9.7	6.7	11.7	9.3	4.2	4.5	4.0	4.2	4.5	3.0	.	3.6	4.3	3.0	3.7	1.70	1.75	2.07	.	1.87	1.57	1.84	1.54					
12 AOR06070-1KF	6.0	5.0	6.5	5.8	5.8	6.3	9.1	9.0	6.9	4.6	8.8	7.4	5.0	4.7	3.0	4.2	4.4	4.0	3.8	3.6	5.0	3.0	4.0	1.71	1.81	2.80	1.94	2.05	1.98	2.12	1.51					
13 AOR07781-5	5.7	5.9	7.8	7.2	6.6	8.7	.	7.5	7.0	5.2	9.2	7.5	5.0	4.4	3.7	4.4	4.4	4.0	.	3.6	4.8	3.0	4.0	1.76	1.81	2.41	.	1.83	2.37	2.03	1.65					
14 CO08065-2RU	4.0	4.0	5.6	5.6	4.8	6.4	6.7	5.3	3.9	3.3	8.4	5.6	4.2	3.8	4.0	4.0	3.6	3.0	3.4	3.0	3.8	2.7	3.2	1.56	1.66	1.83	1.77	1.74	2.06	1.76	1.63					
15 CO08155-2RU/Y	5.3	3.7	5.2	5.1	4.8	5.2	5.6	4.7	4.2	3.7	6.5	5.0	4.3	3.9	3.7	4.0	4.5	3.0	3.6	3.5	3.8	4.0	3.7	1.84	1.79	1.96	1.99	1.81	2.51	1.78	1.93					
16 CO08231-1RU	5.3	4.2	4.5	5.4	4.9	5.2	6.8	5.1	4.6	3.6	7.2	5.4	5.0	3.7	2.7	3.8	4.4	3.0	3.6	3.5	4.0	2.0	3.4	1.71	1.72	2.23	1.90	1.94	2.07	1.96	1.47					
17 COTX09022-3Ru	5.0	.	5.1	5.7	5.3	6.9	7.4	5.1	6.0	.	8.9	6.9	.	3.0	1.0	2.0	3.1	2.0	2.4	2.1	.	1.0	2.1	1.17	1.25	1.59	1.39	1.38	2.35	.	1.16					
18 TX08352-5Ru	6.0	5.0	7.3	3.9	5.5	6.7	7.7	6.2	5.1	4.3	6.2	6.0	4.3	4.4	4.0	4.2	4.1	4.0	3.5	3.3	4.0	4.0	3.8	1.69	1.82	2.03	1.82	1.87	1.74	1.80	1.57					
Mean	6.0	5.0	6.0	5.7	5.7	7.0	7.3	6.9	6.3	4.6	8.6	6.8	4.7	4.1	3.4	4.0	4.2	3.5	3.5	3.4	4.1	3.0	3.6	1.71	1.77	2.25	1.86	1.86	2.03	1.93	1.59					

¹Parma and Hermiston; combined means of Early Harvest and Later Harvest Trials.

²Washington reported mean of 1.98 for Idaho samples and 1.85 for Oregon samples.

TABLE 9: 2017 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.	4.7	4.6	4.5	4.2	5.0	4.3	.	5.0	4.2
2 R. BURBANK	4.8	4.4	3.1 ^{HRM 2.6} OTH 2.5	3.7 ^{SLV 3.0}	5.0	4.3	3.7	5.0	3.8 ^{HRM 3.1}
3 R. NORKOTAH	5.0	5.0	4.9	4.8	5.0	4.3	3.9	4.8	4.8
4 SHEPODY	4.9	.	4.2	.	5.0	.	.	5.0	.
5 A03141-6	4.8	4.9	4.4	4.5	4.9	3.8 ^{OTH 2.0}	.	5.0	4.6
6 A06030-23	4.3 ^{PAR 3.0}	4.4	4.7	4.7	5.0	3.5 ^{OTH 2.0}	3.5	5.0	4.8
7 A07061-6	4.8	5.0	4.8	4.9	4.9	4.0 ^{OTH 2.0}	3.8	4.8	4.9
8 A08009-2TE	4.8	4.7	4.9	4.5	5.0	3.9	4.0	4.9	4.5
9 A08433-4sto	4.7	4.7	4.7	4.7	4.9	4.2	3.3	5.0	4.7
10 AO03123-2	4.8	4.8	4.8	4.6	5.0	3.7 ^{OTH 2.0}	3.4	5.0	4.5
11 AO06191-1	4.9	4.9	4.9	4.7	4.7	3.5 ^{OTH 1.0}	.	4.9	4.7
12 AOR06070-1KF	4.9	4.9	4.7	4.5	4.3	2.6 ^{OTH 1.0}	3.6	4.9	4.6
13 AOR07781-5	4.8	4.7	4.6	4.5	4.9	3.1 ^{OTH 1.0}	.	5.0	4.7
14 CO08065-2RU	3.5 ^{PAR 1.7} OTH 2.3	3.9 ^{SLV 3.0} PAR 2.7	4.8	4.8	4.3 ^{PAR 3.7}	3.6 ^{OTH 2.0}	3.9	4.9	4.8
15 CO08155-2RU/Y	4.9	5.0	4.8	4.7	4.8	4.7	3.9	5.0	4.7
16 CO08231-1RU	4.5	4.7	4.9	4.8	5.0	4.0	3.9	5.0	4.7
17 COTX09022-3RuRE/Y	4.3	3.8 ^{SLV 3.0}	5.0	5.0	5.0	3.0 ^{OTH 2.0}	3.0	5.0	5.0
18 TX08352-5Ru	4.8	5.0	4.7	4.8	4.9	3.4 ^{OTH 2.0}	3.3	5.0	4.8
Mean	4.7	4.7	4.6	4.6	4.9	3.8	3.6	5.0	4.6

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: 2017 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.	1	0	0	1	5	11 TUL 23	4.7	4.4	.	
2 R. BURBANK	3	13 AB 38 KIM 20 OTH 23	1	4 PAR 20	0	1	4.9	4.8	1.6	
3 R. NORKOTAH	5 DAL 18	4 AB 30	0	1	1	2	4.7	4.5	2.3	
4 SHEPODY	3	.	1	.	4	.	4.7	.	.	
5 A03141-6	0	5 KIM 25	1	11 PAR 43	5	7 TUL 18	4.7	5.0	1.9	
6 A06030-23	17 PAR 27 OTH 27	4	0	5 PAR 27	1	1	4.8	4.7	1.3	
7 A07061-6	0	0	0	4 PAR 20	0	5 TUL 15	4.7	4.8	1.6	
8 A08009-2TE	0	3 AB 15	3	21 PAR 33 OTH 55	6	14 TUL 33 PAR 27	4.9	4.5	1.7	
9 A08433-4sto	7 PAR 27	4 AB 15	2	1	0	7 TUL 25	4.8	4.9	2.8	
10 AO03123-2	10 PAR 27 DAL 15	12 PAR 63	0	0	1	7 HRM 23	4.8	5.0	2.5	
11 AO06191-1	16 DAL 65	5 KIM 23	0	0	0	5	4.5	4.8	1.1	
12 AOR06070-1KF	6 PAR 20	16 AB 43 KIM 43	6 PAR 23	1	0	5	4.7	5.0	1.6	
13 AOR07781-5	8 DAL 33	1	1	1	3	4	4.7	4.9	2.0	
14 CO08065-2RU	21 PAR 27 DAL 53	16 AB 75 KIM 25	1	1	0	4 PAR 17	4.7	4.8	2.2	
15 CO08155-2RU/Y	1	0	0	1	0	8 TUL 18	4.7	4.9	1.7	
16 CO08231-1RU	5	7 AB 35	2	1	1	5 PAR 17	4.8	4.6	1.4	
17 COTX09022-3RuRE/Y	3	0	0	0	0	3	5.0	4.5	1.3	
18 TX08352-5Ru	2	0	0	0	0	3	4.8	4.8	2.2	
Entry Means	6	5	1	3	2	5	4.7	4.7	1.8	

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: 2017 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 ¹		
	CO	WA	Entry Mean	CO	ID		OR	WA	Entry Mean	ID		WA	Entry Mean	OR		Entry Mean	
	SLV	OTH		SLV	AB	KIM	HRM	HRM		OTH	AB	KIM		OTH	HRM		E	L
1 RANGER R.	2.0	1.0	1.5	1.0	.	.	0.0	1.0	1.0	0.7	.	.	3.0	3.0	4	17	10
2 R. BURBANK	2.0	2.0	2.0	2.0	2.4	1.5	0.6	2.3	2.0	1.8	2.0	1.5	4.0	2.5	0	0	0
3 R. NORKOTAH	.	.	.	.	1.2	1.3	1.0	2.1	.	1.4	1.5	1.7	.	1.6	4	0	2
4 SHEPODY	.	.	.	.	.	.	0.1	.	.	.	.	.	.	.	0	.	0
5 A03141-6	2.0	0.0	1.0	0.0	.	0.7	0.0	0.7	0.0	0.3	.	0.9	2.0	1.4	0	0	0
6 A06030-23	0.0	0.0	0.0	0.0	0.5	0.3	0.0	0.0	0.0	0.1	0.4	0.4	1.0	0.6	0	0	0
7 A07061-6	1.0	1.0	1.0	1.0	1.6	1.0	0.0	1.8	1.0	1.1	2.3	1.2	3.0	2.2	0	0	0
8 A08009-2TE	3.0	.	3.0	3.0	1.8	2.1	1.6	2.4	.	2.2	1.9	1.4	.	1.7	0	8	4
9 A08433-4sto	3.0	1.0	2.0	2.0	1.7	1.1	0.0	2.2	2.0	1.5	2.3	1.8	4.0	2.7	0	0	0
10 AO03123-2	1.0	0.0	0.5	1.0	1.6	0.6	0.0	0.9	0.0	0.7	1.8	0.8	3.0	1.9	4	17	10
11 AO06191-1	1.0	0.0	0.5	1.0	.	0.7	0.0	1.3	1.0	0.8	.	1.5	3.0	2.3	0	8	4
12 AOR06070-1KF	0.0	0.0	0.0	0.0	0.7	0.5	0.0	0.9	0.0	0.3	0.6	0.5	3.0	1.4	4	17	10
13 AOR07781-5	0.0	0.0	0.0	0.0	.	0.5	0.0	0.1	0.0	0.1	.	0.7	3.0	1.9	8	0	4
14 CO08065-2RU	0.0	0.0	0.0	0.0	0.5	0.7	0.0	0.7	0.0	0.3	0.6	0.8	3.0	1.5	4	17	10
15 CO08155-2RU/Y	0.0	0.0	0.0	1.0	0.7	0.8	0.0	1.4	1.0	0.8	1.0	1.2	2.0	1.4	0	0	0
16 CO08231-1RU	0.0	.	0.0	1.0	0.7	0.9	0.5	0.5	.	0.7	1.2	0.9	.	1.0	4	0	2
17 COTX09022-3RuRE	1.0	.	1.0	1.0	0.5	0.5	.	.	.	0.7	0.6	0.6	.	0.6	.	.	.
18 TX08352-5Ru	3.0	.	3.0	3.0	2.3	2.8	2.3	3.5	.	2.8	2.8	2.7	.	2.8	8	0	4
Mean	1.2	0.4	1.0	1.1	1.2	1.0	0.4	1.4	0.7	1.0	1.5	1.2	2.8	1.8	2	5	4

¹ Evaluations from 45F.

Storage protocol prior to frying

Aberdeen - 1 week from 50F to 45F; 2 weeks from 50F to 40F; and 5 weeks @ 45F and 6 weeks @ 40F.

Hermiston - 2 weeks from 55F to 48 F, and 4 weeks @ 45F.

Kimberly - 1 week from 50F to 45F; 2 weeks from 50F to 40F; and 5 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 - 3 weeks from 55F to 45F, and 11 weeks @ 45F.

* Comprehensive post harvest evaluations of entries can be found in the 2017 Potato Cultivar Yield & Post Harvest Quality Evaluations - Washington State University. Contact: Rick Knowles. www.potatoes.wsu.edu

TABLE 12: 2017 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		% Virus Infection	Prosser		Pectobacterium							
		AB ¹		HRM ²	TUL ³	Foliar		Tuber	Foliar		Tuber		% Serious Defect	PVY HRM ²	% Incidence	DSI ⁴	Fusarium		Soft	Metribuz.		
		(0-9)	AUDPC	(0-9)	AUDPC	AUDPC	(0-9)	AUDPC	%	(1-9)	AUDPC	%					Incid.	Defect	HRM ²	% Incidence	DSI ⁴	F(sam)	F(sol)	(0-5)	React.^{5}
1	RANGER R.	5.7	257	6.0	390	193	3.7	75	3	8.0	904	28	11	7	95	48	30	S	4.3	1.5	2.5	.
2	R. BURBANK	5.0	126	7.0	683	124	3.3	60	0	9.0	1721	23	0	0	70	35	26	S	4.7	2.3	1.6	MR
3	R. NORKOTAH	9	1027	8	1478	1134	6.0	275	0	9.0	1981	33	1	1	90	23	18	S	2.3	1.3	4.0	R
4	SHEPODY	5.3	271	.	.	.	3.7	68	2	9.0	1740	30	2	0	.	.	.	.	3.1	1.3	3.3	.
5	A03141-6	5.7	209	.	.	40	3.0	36	17	6.8	1325	30	3	0	.	20	11	S	3.1	1.9	2.7	.
6	A06030-23	5.7	268	7.0	833	240	4.3	105	2	9.0	1918	30	15	1	100	25	14	S	4.5	1.3	4.0	R
7	A07061-6	2.3	21	6.0	690	92	2.7	28	10	7.5	1407	33	12	1	30	20	14	S	4.9	1.3	1.5	MS
8	A08009-2TE	1.7	19	7.0	683	120	2.7	27	0	6.0	968	25	3	1	30	25	11	S	4.7	2.1	1.9	R
9	A08433-4sto	2.0	15	6.0	533	110	2.3	23	2	5.3	650	0	7	0	0	30	13	S	2.9	1.7	0.3	R
10	A003123-2	1.3	12	7.0	833	115	3.3	62	0	6.0	921	0	13	5	65	7	2	MR	4.9	1.9	3.1	MS
11	A006191-1	5.7	188	7.0	1058	119	4.7	117	0	8.8	1700	25	12	0	30	.	.	.	2.5	1.5	2.7	.
12	AOR06070-1KF	1.7	15	7.0	690	215	1.7	18	0	8.0	1421	28	14	5	95	32	20	S	3.7	1.2	4.5	R
13	AOR07781-5	5.3	168	6.0	533	117	3.3	54	0	9.0	1907	0	15	0	0	.	.	.	2.7	1.1	3.1	.
14	CO08065-2RU	3.0	33	6.0	908	90	3.0	33	0	6.0	1064	18	26	0	100	56	36	S	4.7	1.7	0.3	S
15	CO08155-2RU/Y	4.3	105	7.0	1058	486	7.7	683	0	9.0	1806	0	1	1	10	28	15	S	4.8	1.3	3.9	MS
16	CO08231-1RU	4.7	117	7.0	683	140	2.3	29	2	7.8	1637	0	13	1	100	69	57	S	4.8	1.8	4.7	MR
17	COTX09022-3RuRE/Y	6.7	344	.	.	26	6.0	251	5	.	.	.	11	4	.	.	.	.	4.3	2.5	3.7	R
18	TX08352-5Ru	9	665	7.0	1358	684	4.0	95	0	.	.	.	0	0	90	21	13	S	2.0	1.3	4.1	R
Entry Means		4.4	188	6.7	789	210	3.7	114	2	7.8	1442	19	9	2	58	32	21		3.9	1.6	2.8	
LSD (.05)		1.8					1.9		10	0.8	315	11	21	10					0.6	0.9	1.5	

¹ Evaluations made at Aberdeen, Idaho by Jonathan Whitworth; scale as indicated with highest number being most severe. For 0 to 9: 0=no symptoms; 1= trace; 2=1-5%; 3=5-10%; 4=10-20%; 5=25-40%; 6=40-60%; 7=60-70%; 8=75-90%; 9=90-100% dead or dying with typical disease symptoms.

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 foliar readings taken 91, 106, and 121 days after planting.

³ Evaluations made at Tulelake, California; AUDPC based on foliar readings taken 77, 83, 89, 96, 104, and 110 days after planting.

⁴ Evaluations made at Prosser, Washington by Chuck Brown: Tubers cut into 8 facets, DSI = percent of facets with blemish. S= Susceptible, MR= Moderately Resistant

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

**TABLE 13: 2017 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	Texas ² µg Trolox equivalents/gfw ³	Glycoalkaloids ⁴ (mg/100g FWB) ¹
		Dextrose (%FWB) ¹	Sucrose (%FWB) ¹				
1 RANGER R.	.	.	.	.	.	162.2	.
2 R. BURBANK	20.9	0.19	0.17	5.0	20.9	141.2	1.9
3 R. NORKOTAH	20.1	0.18	0.12	4.8	20.1	161.8	2.8
4 SHEPODY	.	.	.	.	.	155.1	.
5 A03141-6	.	.	.	.	.	161.5	.
6 A06030-23	22.7	0.03	0.16	6.0	22.7	177.6	16.0
7 A07061-6	22.5	0.19	0.15	5.3	22.5	265.7	5.2
8 A08009-2TE	21.7	0.20	0.20	5.8	21.7	141.9	4.5
9 A08433-4sto	21.0	0.27	0.20	5.1	21.0	142.3	1.9
10 AO03123-2	20.0	0.16	0.26	6.5	20.0	124.8	4.6
11 AO06191-1	.	.	.	.	.	226.3	.
12 AOR06070-1KF	24.8	0.11	0.23	6.0	24.8	194.7	8.9
13 AOR07781-5	.	.	.	.	.	135.3	.
14 CO08065-2RU	25.8	0.06	0.27	6.3	25.8	105.0	4.5
15 CO08155-2RU/Y	23.6	0.04	0.13	5.7	23.6	131.5	0.5
16 CO08231-1RU	24.7	0.12	0.12	5.5	24.7	142.0	2.4
17 COTX09022-3RuRE/Y	23.5	0.04	0.13	5.7	23.5	149.3	1.5
18 TX08352-5Ru	19.47	0.22	0.13	5.4	19.5	114.2	4.8
Mean	22.4	0.14	0.17	5.6	22.4	157.4	4.6

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

² The assay used at Texas A&M University was based on "Use of a Free Radical Method to Evaluate Antioxidant Activity" by Brand-Williams, et al. 1995, Levensm. Wiss. Technol. 28:25-30. Antioxidants soluble in methonal were extracted and allowed to react with the stable radical, 2,2,-Diphenyl-1-picrylhydrazyl (DPPH). This provided a rapid evaluation of the antioxidant properties of the potato extracts based on absorbance.

³ µg Trolox equivalents/gfw - Absorbance was converted to trolox equivalents based on a standard curve using the following equation: $y=284.86x - 4.9907$

⁴ Glycoalkaloids: The 2017 Lenape check grown at Aberdeen was 23.64 mg/100g

TABLE 14: 2017 Western Regional Potato Variety Trial - MERIT SCORES [1-5(best)]

No. Clone	Post-Harvest																											
	Field Performance Process Merit											Fresh Merit																
	CO			OR				WA				Process WA ¹ 3 State	CA		CO		ID				OR		TX		WA		Early Trial	Late Trial
	SLV	AB	KIM	HRM		OTH		Early Trial		Late Trial			TUL	SLV	AB	KIM	HRM		DAL	OTH		E		E		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	L	E	L	Mean(Rnk)	Mean(Rnk)				
1 RANGER R.	3.0	.	.	2.5	2.5	2.7	2.9	2.6	8	2.8	12	2.1	3.0	2.0	.	.	2.0	1.5	3.6	3.1	1.0	2.9	6	1.9	16			
2 R. BURBANK	3.0	1.5	2.0	2.5	2.0	1.6	3.2	2.1	10	2.3	14	1.9	2.5	2.0	2.4	2.1	1.5	1.0	2.8	1.0	0.9	1.8	18	1.8	17			
3 R. NORKOTAH	.	2.0	2.0	1.5	1.0	4.0	1.3	2.8	6	1.6	16	.	2.9	.	3.1	3.3	2.5	2.5	4.4	5.0	2.6	4.0	1	2.9	3			
4 SHEPODY	.	.	.	2.5	.	3.4	.	3.0	3	.	.	.	.	.	.	.	2.0	.	3.7	.	.	2.9	6	.	.
5 A03141-6	4.0	.	3.5	2.5	3.0	5.0	2.7	3.8	1	3.3	5	2.3	2.1	4.0	.	3.1	2.0	2.0	3.7	2.5	0.9	2.7	12	2.4	13			
6 A06030-23	3.0	4.5	4.5	3.0	3.0	1.0	2.1	2.0	13	3.4	2	3.5	3.1	2.0	3.5	3.5	3.0	3.0	4.0	1.5	1.7	2.8	8	2.8	10			
7 A07061-6	5.0	2.5	3.5	2.0	2.5	1.1	3.3	1.5	18	3.4	2	2.9	2.4	5.0	3.3	2.9	2.0	2.0	4.2	0.7	2.0	2.3	16	2.9	3			
8 A08009-2TE	1.0	2.5	2.5	2.5	2.0	1.6	3.7	2.1	10	2.3	14	.	2.9	4.0	3.6	2.8	2.5	2.5	4.4	2.1	1.6	3.0	3	2.9	3			
9 A08433-4sto	3.0	2.5	2.5	2.0	2.5	2.8	3.7	2.4	9	2.8	12	2.5	3.1	5.0	2.6	2.5	2.0	2.5	4.0	2.1	1.9	2.7	12	2.9	3			
10 AO03123-2	4.0	2.5	3.5	2.5	3.0	1.5	2.2	2.0	13	3.0	10	3.5	3.3	3.0	2.6	3.3	2.5	2.5	3.6	0.9	3.0	2.3	16	2.9	3			
11 AO06191-1	4.0	.	3.0	2.5	2.5	3.2	2.8	2.8	6	3.1	9	3.2	3.5	3.0	.	3.6	3.5	3.0	4.0	4.6	1.6	4.0	1	3.0	1			
12 AOR06070-1KF	5.0	3.0	3.5	3.0	2.5	2.9	2.0	2.9	4	3.2	7	3.6	3.0	5.0	2.8	3.5	2.0	2.0	3.7	1.4	1.4	2.4	15	2.9	3			
13 AOR07781-5	4.0	.	4.0	2.5	3.0	4.9	2.4	3.7	2	3.4	2	2.9	2.8	2.0	.	2.5	2.5	2.5	4.0	2.4	1.4	3.0	3	2.2	15			
14 CO08065-2RU	5.0	3.5	3.5	2.0	2.5	1.9	1.7	1.9	16	3.2	7	3.3	3.1	3.0	2.4	3.5	2.5	2.5	3.3	2.7	0.9	2.8	8	2.6	11			
15 CO08155-2RU/Y	4.0	4.0	3.0	2.0	2.5	2.2	1.6	2.1	10	3.0	10	2.9	2.9	2.0	2.6	3.3	2.0	3.0	3.9	1.8	1.0	2.6	14	2.5	12			
16 CO08231-1RU	5.0	4.0	3.5	2.0	2.5	1.9	1.6	2.0	13	3.3	5	.	3.1	4.0	3.6	3.7	2.0	2.5	3.9	2.5	1.1	2.8	8	3.0	1			
17 COTX09022-3RuRE/Y	5.0	4.0	4.0	.	.	2.9	1.0	2.9	4	3.5	1	.	1.9	3.0	2.9	2.6	.	.	4.3	1.6	1.3	3.0	3	2.3	14			
18 TX08352-5Ru	1.0	1.5	1.5	2.0	1.5	1.5	1.2	1.8	17	1.3	17	.	3.1	1.0	4.0	3.6	3.0	3.0	4.4	1.0	2.4	2.8	8	2.9	3			
Mean	3.7	2.9	3.1	2.3	2.4	2.6	2.3	2.5	9	2.9		2.9	2.9	3.1	3.0	3.1	2.3	2.4	3.9	2.2	1.6	2.8	8.8	2.6				

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: 2017 Western Regional Potato Variety Trial - ENTRY SUMMARY1

Entry No.Clone	Year		US Total Yield ²	US #1's Yield ²	US % #1's ²	Tuber Size (oz)		Specific Gravity ²	Fry45 Color	Combine(E&L) Merit Score ³		Observations	Disp. 2018
	In Trial	Use				Early	Late			Process	Fresh		
1 RANGER R.	-	Dual	544	441	81	6.7	6.7	1.088	0.7	2.7	2.2		Check
2 R. BURBANK	-	Dual	510	369	71	6.6	6.6	1.080	1.8	2.3	1.7		Check
3 R. NORKOTAH	-	Fresh	413	338	79	6.2	6.2	1.071	1.4	2.0	3.3		Check
4 SHEPODY	-	Proc	440	328	75	6.7	.	1.071	.	3.0	2.9		Check
5 A03141-6	3	Dual	592	529	90	11.2	11.2	1.091	0.3	3.4	2.6	High total and U.S. yields (L); Larger tuber with high % and yield of oversize (E&L); IBS-Parma; Resistant to VW/ED @ TUL; High Process Merit (E)	Grad
6 A06030-23	1	Dual	407	336	82	6.3	6.3	1.084	0.1	3.0	2.8	Hollow heart (E); Very light fry color from 40F; Higher Glycoalkaloids; High Process merit (L);	Ret.
7 A07061-6	1	Dual	615	517	83	6.4	6.4	1.080	1.1	2.8	2.7	High total and U.S. Yields (L); Lower specific gravity (E&L); Resistance to VW/ED @ AB and PVY; High process merit (L);	Ret.
8 A08009-2TE	1	Fresh	552	443	80	6.1	6.1	1.086	2.2	2.3	2.9	IBS (Parma & Othello); NN/VD @ Tulelake and Parma; Resistant to PVY;	Disc.
9 A08433-4sto	1	Dual	594	495	83	7.0	7.0	1.084	1.5	2.7	2.8	High total and U.S. yields (L); Resistance to VW/ED & EB @ AB; Resistant to LB, soft rot, and high resistance to PVY;	Ret.
10 AO03123-2	3	Dual	494	419	85	6.7	6.7	1.088	0.7	2.7	2.7	Hollow heart (E&L); Resistance to VW/ED @ AB; Mod. Resistance to Corky Ringspot; Higher protein;	Grad
11 AO06191-1	2	Dual	471	418	89	9.3	9.3	1.092	0.8	3.0	3.3	Larger tuber with high % and yield of oversize (E & L); Hollow heart (E); Resistant to PVY & Fusarium (sam); High fresh merit (E&L);	Ret.
12 AOR06070-1KF	3	Proc	550	470	85	7.4	7.4	1.098	0.3	3.1	2.7	Higher specific gravity (E&L); Resistance to VW/ED @ AB	Grad
13 AOR07781-5	1	Dual	518	431	83	7.5	7.5	1.093	0.1	3.5	2.5	Higher specific gravity (E&L); High Resistance to PVY; High Process Merit (E&L)	Ret.
14 CO08065-2RU	1	Dual	453	346	77	5.6	5.6	1.097	0.3	2.9	2.6	Low total & US yields (E & L); Higher specific gravity (E&L); Growth cracks (E&L); Hollow heart (E&L); Resistance to VW/ED @ TUL and soft rot; Susc. to C. scab and metribuzin; Higher protein	Disc.
15 CO08155-2RU/Y	1	Dual	453	339	75	5.0	5.0	1.082	0.8	2.8	2.4	Low total and US yields (L); Smaller tuber size with high % and yield of undersize (E & L); Resistant to PVY;	Ret.
16 CO08231-1RU	1	Fresh	499	385	77	5.4	5.4	1.086	0.7	2.9	2.9	Higher fresh merit (L);	Ret.
17 COTX09022-3RuRE/Y	3	Fresh	552	474	85	6.9	6.9	1.089	0.7	3.4	2.6	High total and US yields (Early); Rounded tuber shape; Resistant to VW/ED @ TUL; High process merit (L);	Grad
18 TX08352-5Ru	3	Fresh	504	419	83	5.5	6.0	1.068	2.8	1.4	2.8	High total and US yields (Early); Lower specific gravity (E & L); Poorer processing from 45F; Resistant to Fusarium (sam);	Grad
Mean			509	417	81	6.8	6.8	1.085	1.0	2.8	2.7		

¹ Numeric values represent means across all trial locations.

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

³ Data shown from combined early & late trial results.

TABLE 16: 2017 Western Regional Potato Variety Trial - 3 YEAR SUMMARY OF GRADUATING ENTRIES - LATE TRIAL LOCATION MEANS

Clone	2015						2016						2017					
	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
A03141-6	691 (2/21)	596 86	1.092	0.6	2.7	4.0	630 (3/16)	549 87	1.089	0.7	2.9	3.9	592 (3/17)	529 90	1.091	0.3	2.6	3.4
AO03123-2	536 (11/21)	444 82	1.085	1.0	2.4	3.0	589 (7/16)	504 85	1.085	0.5	3.0	3.4	494 (12/17)	419 85	1.088	0.7	2.7	2.7
AOR06070-1KF	657 (3/21)	561 85	1.096	0.4	2.5	3.4	687 (1/16)	574 83	1.093	0.2	3.0	3.9	550 (6/17)	470 85	1.098	0.3	2.7	3.1
COTX09022-3RuRE/Y	424 (18/21)	295 69	1.078	0.4	1.5	1.1	555 (11/16)	464 84	1.085	0.7	2.4	2.6	552 (4/17)	474 85	1.089	0.7	2.6	3.4
TX08352-5RU	453 (17/21)	379 83	1.068	1.8	3.1	2.3	596 (5/16)	489 80	1.067	2.3	3.4	2.3	504 (10/17)	419 83	1.068	2.8	2.8	1.4
RANGER R.	607 (4/21)	454 75	1.088	1.1	2.3	2.9	592 (6/16)	479 80	1.083	1.0	2.7	3.1	544 (6/17)	441 81	1.088	0.7	2.2	2.7
R. NORKOTAH	454 (16/21)	382 84	1.069	1.4	2.7	1.9	488 (15/16)	397 80	1.072	1.3	2.9	2.3	413 (15/17)	338 79	1.071	1.4	3.3	2.0
R. BURBANK	606 (6/21)	385 64	1.081	1.0	1.8	2.3	579 (9/16)	427 73	1.080	1.2	2.2	2.7	510 (9/17)	369 71	1.080	1.8	1.7	2.3
Trial Mean	556	450 80	1.085	0.7	2.8	2.5	572	470 82	1.083	1.0	2.9	3.1	513	422 82	1.086	1.0	2.7	2.8

3 Year Average (2015-2017)

Clone	Total Yield ¹ &(rank) ²	US #1 Yld ¹ %	SG	FRY 45	Merit Score Fresh	Proc	Noted Weaknesses	Noted Strengths
	A03141-6	638 (85)	558 88	1.091	0.5	2.7			3.8	IBS-2/3 years;	High Total & US yields (L)-3/3 years; High Total & US yields (E )-2/3; Large tuber size and over size yield 3/3; CSR-3/3 years;Res. to VW/ED-2/3 years; High process merit (L)-2/3 and (E )-2/3;
AO03123-2	540 (44)	456 84	1.086	0.7	2.7	3.0	Hollow heart (L)-2/3 years;	Resistant to VW/ED-3/3 years and Corky Ringspot (2/2); Higher protein (2/3);
AOR06070-1KF	631 (81)	535 84	1.096	0.3	2.7	3.5	None noted over 2 or more years	High Total & US Yields (L)-2/3 years; High specific gravity (E&L)-3/3; Resistant to VW/ED-3/3; EB-2/3; High Vitamin C (2/3);
COTX09022-3RuRE/Y	510 (41)	411 79	1.084	0.6	2.2	2.4	Rounded tuber shape-3/3 years;	High US Yield (E)-2/3 years;
TX08352-5RU	518 (43)	429 83	1.068	2.3	3.1	2.0	Low specific gravity (E&L)-3/3 years;	Fusarium (sam) resistant-2/3 years;
RANGER R.	581 (69)	458 79	1.086	0.9	2.4	2.9		
R. NORKOTAH	452 (14)	372 81	1.071	1.3	3.0	2.0		
R. BURBANK	565 (53)	394 69	1.080	1.3	1.9	2.4		
Trial Mean³	547	447 81	1.085	0.9	2.8	2.8		

¹ (CWT/A)² Percent of entries with lower yields; e.g. 85% of all late trial entries over three years yielded lower than A03141-6³Late Trial means of all trial entries 2015 - 2017.

TABLE 17: 2017 Western Regional Potato Variety Trial - ENTRY COMMENTS - EARLY HARVEST

Entry Comments - Early Harvest					
No. Clone	ID PAR	TX DAL	OR ¹ HRM	WA OTH	
1	Ranger Russet	nice	rustic, knobs+	curvy x2, greening x2, irregular x2, vole damage, cut tubers	Mostly typy, good size, a bit pointy.
2	Russet Burbank	good for RB, folded ends	knobs++, skinny, ugly, many culls, does not like Texas	knobs x3, curvy x4, dumbbell x4	Irregular shape, poor skin set.
3	Russet Norkotah	Nice, smooth	high tuber set, enlarged lenticels+, very nice shape+, uniform size and shape, good russeting, some moon shaped, hearts, pointed	typy x3, low yield, prominent eyes, vole damage x2	Typy, nice size and skin set.
4	Shepody	irregular, big	knobs++, light skin, attached stolons, stem end discoloration, many culls, smooth skin, ugly skin+	curvy x3, knobs x3, irregular shape x3, dumbbell x2	Large, light color skin, poor skin set.
5	A03141-6	patchy skin	knobs, stem end discoloration, culls+, many eyes, flat, long+, skinning, pointy, soft stem end	skinning x4, bot x3, bulky x2, vole damage, dirty	Non uniform shape and russeting.
6	A06030-23	smooth	light eyes+, knobs enlarged lenticels, stem end discoloration	prominent eyes x4, typy x3, cracky skin x2, vole damage x2, growth cracks	Typy, light eyes, dark skin, smaller.
7	A07061-6	close to shepody, alligator hide	light skin+, high tuber set, stem end discoloration	sprouts x4, round x3, sticky x2, poor germination in one rep	Small, not early, ugly.
8	A08009-2TE	Long, smooth	light eyes, high tuber set, pointy+, stem end discoloration, attached stolons, long, culls	sprouts x4, bottle x3, dumbbell x3, thin x2, curvy x2, vole damage	Mostly typy, good skin set, smaller.
9	A08433-4sto	Oblong	stem end discoloration, small, a little flat, nice	cracky skin x4, pointy x2, sticky x2, cut tubers, XL	Non-uniform shape and size, ugly.
10	AO03123-2	patchy skin	long++, enlarged lenticels, stem end discoloration, very low tuber set, skinny, light skin color	bulky x4, cracky skin x4, pointy x3, dumbbell x3	Not early, small, irregular shapes.
11	AO06191-1	uniform	knobs, low tuber number, very large++, uniformly large, nice shape, intense russet skin,	bulky x4, nice russeting x3, prominent eyes x2, allegator x2	Typy with nice skin.
12	AOR06070-1KF	patchy skin, irregular	long+++, pointed+++ (culls), stem end discoloration, skinny	curvy x3, pointy x4, cracky skin x2, long x2, vole damage	Shape not uniform, lumpy.
13	AOR07781-5	irregular, patchy skin, alligator hide	nice skin, nice size, long lumpy, green tubers, knobs	button x4, prominent eyes x3, pointy x3, sprout x2	Large, deep eyes, bumpy.
14	CO08065-2RU	alligator hide, small	low tuber set+, enlarged lenticels, blocky, flat, nice russet skin	short x3, sticky x2, pointy x2, lenticels x2	Lots of cracks, smaller.
15	CO08155-2RU/Y	Bulging eyes, variable size	not uniform russet skin+	short x3, yellow flesh, rot	Elephant hide on 20%, not an early variety.
16	CO08231-1RU	na	not uniform size, nice shape	skinning x2, sprouts x2, curvy x2, button x2	Not early, typy, small and round.
17	COTX09022-3RuRE/Y	variable size	high tuber set++, pink-red eyes, blocky, stem end discoloration, nice, unique	.	Round pink eyes, russeting is ugly, discard!
18	TX08352-5Ru	patchy skin	uniformly large tubers+, nice shape and skin, knobs, enlarged lenticels, a little pointed,	typy x4, nice russeting x2, sticky x2, pointy x2	Small, typy, good skin set.

TABLE 18: 2017 Western Regional Potato Variety Trial - ENTRY COMMENTS - LATE HARVEST

Entry Comments - Late Harvest

No.	Clone	CA	CO	ID ¹			OR ¹	WA
		TUL	SLV	AB	KIM	PAR	HRM	OTH
1	Ranger Russet	Check	.	.	.	curved	bottle x3, curvy x4, pointy x2	Long, shape a bit irregular.
2	Russet Burbank	Check	.	MR: jelly ends (4); misshapen, points (3)	MHR: misshapen (4); not uniform, bumps (2)	nice for RB, dumbbell	db x3, knobs x3, bottle x4, ugly x2, rot+	Many irregular shapes.
3	Russet Norkotah	Check	.	HR: some checking (3); small, low yield (2)	HR: uniform (3); small, few misshapen	nice	scab x3, tuberworm x3, typy x3, pointy x2, low yield x2	Mostly typy.
4	Shepody	.	.	.	.	.	.	.
5	A03141-6	High U.S. #1's cwt/A, large average tuber size	.	.	MR/LR: patchy russet (4); points, big (3); green (2)	patchy russet	bulky x4, deep eyes x2, sprouts x2, skinning x2, XXL x2, rodent damage	Large, round, and lumpy! Ugly.
6	A06030-23	good shape uniformity	.	MR: fairly uniform, some shatter (3); slight checking (2)	HR: low yield, small (3); nice shape (2)	R norkotah like, alligator hide	prominent eyes x4, Fresh x3, typy x4, nice x4	Mostly typy, uniform shape, nice skin.
7	A07061-6	High U.S. #1's cwt/A, low russetting	rough, eyebrow	MLR: patchy (4); misshapen, slight brow (2)	MLR: points (2); few curves, some green	patchy, irregular, discard!	flat x4, round x4, sprouts x4, sticky x2, folded	Light russetting with buff skin, mostly round.
8	A08009-2TE	shallow eyes	pointed, curved	MR: small (3); flat, some bowling pin/pear shaped	MHR: not uniform, some misshapen (3)	pink eyes, dumbbells	bottle x2, sticky x2, dumbbell x2, chain x2, pointy x2, pink bud end, pink eyes	Some typy, a bit short, some irregular shapes.
9	A08433-4sto	high tubers per plant, small average tuber size	pink inside	MR: not uniform, flat (3) few curves and bulging eyes	MR: some misshapen, not uniform, ats (2); few green, chatter	round, ATS	flat x4, sprouts x3, pointy x3, pear x2, rot+	Short, oval, flat, look like river rocks.
10	AO03123-2	high merit score	.	MLR: bumsp (4); not uniform, green (2)	MR: points (3); fairly uniform (2)	patchy	bulky x3, deep eyes x2, pointy x3, nice x3, rodent damage, cracky x2	Good length, a few round tubers.
11	AO06191-1	high merit score, low tuber set	.	.	HR: good shape, uniform (3); slight shatter (2)	nice, alligator hide	typy x4, heavy russet x3, greening x2, nice x2	Large tubers, typy, nice skin and uniform size.
12	AOR06070-1KF	.	stem end	MR: checking (4)	HR: uniform, slight shatter (3); good shape, few points (2)	na	sprouts x4, pointy x3, curvy x3, greening x2, rodent damage	Very irregular shaped, DISCARD.
13	AOR07781-5	a lot of knobs and growth crack	.	.	HR: some checking, shatter (3); curves, points (2)	pointed, yellow flesh	curvy x3, pointy x3, bottle x2, rot	Somewhat typy, non uniform shape and size.
14	CO08065-2RU	low yield, 10% hollow heart	blocky	HR: shatter, checking, ugly (3); flat (2)	HR: few points, some shatter (3); small, good eyes (2)	alligator hide, discard	FBE x4, lenticels x3, pear x2, pointy x2, growth cracks	Bad skin, with lots of cracks.
15	CO08155-2RU/Y	good shape uniformity, shallow eyes	pointed	MHR: small, uniform, smooth eye, good shape (2)	MHR: uniform, few bumps, some green (2)	yellow flesh	typy x4, heavy russet x2, sprouts x2, short x2, rodent damage	Small, severe elephant hide.
16	CO08231-1RU	.	.	MR: nice eye, good shape, uniform (2)	MHR: good shape, uniform (3); some flat, few points	na	short x3, pointy x4, bottle x2, pixel russet x2, rodent damage	Many short ones, irregular shapes.
17	COTX09022-3RuRE/Y	pink eyes, low merit score, round shape	flat	MHR: flat (4)	MR: not real uniform, flat (2)	dark yellow, decay on stolon ends	.	Round russet with pink eyes. Maybe a chipper?
18	TX08352-5Ru	.	.	MR: good shape and eye, uniform (4); slight checking and shatter (2)	MHR: uniform (4); some shatter, good shape (2)	alligator hide	typy x4, sticky x3, nice x3, rodent damage	Looks like Russet Norkotah, but smaller.