

2014 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS Cooperating

California

Colorado

Idaho

Oregon

Texas

Washington



2014 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

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Western Regional Potato Variety Trial Reports (1998-2014) can be accessed at the following website.

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

Compiled by Brian Schneider

TABLE 1: 2014 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	Solid Set	204-40-110-34	19-May	29-Sep	109	133	Matrix Prowl H2O Outlook	Admire	Maxim 4FS, Quadris Omega F500 Bravo Weatherstick
2	San Luis Valley Colorado (SLV) D. Holm, C. Gray	Late	Sprink	120-60-40-25-2.5Zn	16-May	29-Sep	111	136	Roll/Reglone Outlook Eptam 7E Matrix SG	Leverage 360 Belay, Movento	Quadris Luna Tranquility
3	Aberdeen Idaho (AB) J. Stark, R. Novy, J. Whitworth, P. Bain	Late	Sprink	255-160-60	2-May	24-Sep	123	145	Reglone Eptam 7E TriCor 4F Matrix	Admire Pro	Echo Manzate flowable, Gavel
4	Kimberly Idaho (KIM) J. Stark, R. Novy, J. Whitworth, P. Bain	Late	Sprink	250-200-70	24-Apr	6-Oct	133	165	Mechanical Outlook, Sencor Roundup, Eptam 7E, Bronco Max	Admire Pro	Fulfill, Luna Tranquility Beleaf, Gavel Bravo, Rimon
5	Parma Idaho (PAR) M. Thornton, A. French, O. Adams	Early Late	Sprink Sprink	100-160-100 180-160-100	8-Apr 21-Apr	7-Aug 22-Sep	100 140	121 154	Regone(E) /Mech(L) Outlook Prowl, Eptam	Admire Movento	Quadris, Gavel Endura, Dithane Bravo, Reason
6	Hermiston Oregon (HRM) S. Sathuvalli	Early Late	Pivot Pivot	350-200-200-30-1Zn-1B 414-280-200-70	25-Mar 21-Apr	13-Aug 22-Sep	118 143	141 154	Roll/Reglone Vapam, Dual Magnum Matrix	Admire, Coragen Agr-Mek, Actara Movento/Onager	Quadris Ridomil
7	Dalhart Texas (DAL) J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	115-50-0	14-May	29-Sep	118	138	Mechanical Select Max Chateau, Brawl Acumen, Tricor	Beleaf, Fulfill Movento Reaper	Quadris, Penncozeb, Bravo Revus Top, Scala SC Luna Tranquility, Echo
8	Springlake Texas (SPR) J. C. Miller Jr., J. Koym, D. Schuering	Early	Pivot	155-34-34	4-Apr	12-Aug	117	130	Mechanical Sencor Roundup, Dual Treflan, Choice	Movento, Agrimek Venom, Tracer, Transform Blackhawk, Cruiser Maxx	Scala, Bravo Nucop
9	Othello (OTH) Othello (OTH) Washington M. Pavek, R. Knowles	Early Late	Pivot Pivot	100-150-200-40-2B 100-150-200-40-2B	31-Mar 3-Apr	6-Aug 9-Sep	112 152	128 159	Mechanical Outlook Prowl H2O Metrbuzin, Eptam		Omega Chloronil 720

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

TABLE 2: 2014 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	96	Long	4.1	Med Russet	3.3	Med-Large	3.3	Medium	3.3	2.1
2	Russet Burbank	Early Rose ?	W	Ck	Dual	E/L	-	OR	96	Obl-Lng	3.9	Med Russet	3.3	Med-Large	3.8	Med Early	2.9	2.0
3	Russet Norkotah	ND9687-5Rus ND9526-4Rus	W	Ck	Fresh	E/L	-	OR	96	Obl-Lng	3.6	Med Russet	3.7	Small	2.3	Early	1.7	2.3
4	Shepody	Bake-King F58050	RP	Ck	Proc	E	-	OR	99	Obl-Lng	3.8	White	1.3	Med-Large	4.0	Medium	3.1	1.8
5	A02062-1TE	A97201-4 A97299-1	W	ID	Dual	E	2	OR	94	Obl-Lng	3.8	Med Russet	3.9	Medium	2.9	Med Early	2.8	1.6
6	A02424-83LB	AO96781-4 A97229-1	W	ID	Dual	E/L	2	OR	99	Oblong	3.5	Light Russet	2.1	Med-Large	3.9	Medium	3.4	2.8
7	A02507-2LB	EGA09702-2 GemStar Russet	W	ID	Dual	E/L	3	OR	93	Oblong	3.0	Med Russet	3.3	Med-Large	3.5	Med-Late	3.7	2.0
8	A03158-2TE	A98292-2 A98104-4	W	ID	Dual	E/L	3	OR	97	Obl-Lng	3.7	Med Russet	3.5	Med-Large	3.3	Medium	3.1	2.1
9	A03921-2	A96953-13 A93005-10	RP	ID	Dual	E/L	1	OR	96	Oblong	3.5	Light Russet	2.8	Large	4.2	Med-Late	3.6	2.1
10	A06021-1T	A99031-1TE A96013-2	W	ID	Dual	E/L	1	CO	98	Oblong	3.4	Med Russet	3.4	Medium	2.8	Early	2.5	1.7
11	A06084-1TE	A98345-1 A97267-1	W	ID	Dual	E/L	1	OR	96	Oblong	3.5	Med Russet	3.2	Med-Large	3.1	Med Early	2.6	2.2
12	AO01114-4	AO92017-6 A86102-6	W	OR	Dual	E/L	2	OR	97	Oblong	3.4	Med Russet	3.4	Med-Large	3.7	Med Early	2.8	2.0
13	AO02060-3	A97201-4 Premier Russet	W	OR	Dual	E/L	3	OR	97	Oblong	3.3	Med Russet	3.2	Medium	2.8	Early	2.3	2.2
14	CO03276-5RU	CO95086-8RU Blazer Russet	P	CO	Fresh	E/L	3	CO	97	Obl-Lng	3.7	Med Russet	3.7	Med-Large	3.2	Early	2.3	3.2
15	CO05068-1RU	AWN86514-2 CO98009-3RU	W	CO	Dual	E/L	1	CO	97	Oblong	3.2	Med Russet	3.1	Med-Large	3.9	Medium	3.4	2.1
16	CO05175-1RU	CO94035-15RU AC96052-1RU	W	CO	Dual	E/L	1	CO	97	Oblong	3.5	Med Russet	3.4	Med-Large	3.8	Medium	3.3	2.5
17	OR05039-4	AO95245-2 PA00N29-3	W	OR	Proc	E/L	2	44	98	Obl-Lng	3.7	Light Russet	2.5	Med-Large	3.6	Med Early	3.0	2.1
18	POR06V12-3	PA00V6-4 PA01N22-1	W	OR	Dual	E/L	2	OR	95	Oblong	3.5	Med Russet	4.0	Med-Large	4.0	Medium	3.5	1.8

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: 2014 Western Regional Potato Variety Trial - TOTAL YIELD (CWT/A) - EARLY AND LATE HARVEST

No. Clone	Total Yield - Early Harvest (CWT/A)						Total Yield - Late Harvest (CWT/A)							
	ID PAR	OR HRM	TX DAL SPR ¹		WA OTH	Entry Mean/Rank	CA TUL	CO SLV	ID AB KIM		OR PAR HRM	WA OTH	Entry Mean/Rank	
1 RANGER R.	312	573	422	105	524	458 8 cd	446	471	433	518	631	534	681	531 7 abc
2 R. BURBANK	369	499	380	109	466	429 15 cd	381	406	340	468	680	762	730	538 5 ab
3 R. NORKOTAH	357	294	514	93	465	407 18 d	387	329	246	394	550	335	686	418 16 e
4 SHEPODY	398	548	492	97	553	498 3 bc	.	362	.	.	.	.	.	.
5 A02062-1TE	327	450	553	134	450	445 12 cd	.	337	.	.	.	.	.	.
6 A02424-83LB	311	539	390	65	506	437 14 cd	348	484	468	522	487	782	655	535 6 ab
7 A02507-2LB	265	580	441	40	352	410 17 cd	335	472	435	489	506	683	684	515 10 abcd
8 A03158-2TE	437	660	605	140	543	561 2 ab	450	490	478	614	680	533	814	580 2 a
9 A03921-2	331	543	358	101	520	438 13 cd	369	515	449	502	601	973	712	589 1 a
10 A06021-1T	364	449	491	66	515	455 9 cd	381	405	378	338	617	547	665	476 12 bcde
11 A06084-1TE	369	484	480	139	452	446 11 cd	398	327	299	417	534	491	602	438 14 de
12 AO01114-4	324	524	584	98	520	488 5 bcd	340	356	344	420	642	461	581	449 13 cde
13 AO02060-3	342	478	520	46	467	452 10 cd	376	341	177	349	518	540	672	425 15 e
14 CO03276-5RU	473	760	498	74	623	588 1 a	479	405	239	477	632	679	712	518 9 abcd
15 CO05068-1RU	326	672	482	108	471	488 5 bcd	440	452	366	522	593	938	751	580 2 a
16 CO05175-1RU	330	579	513	108	483	476 7 bcd	376	437	376	454	573	811	772	543 4 ab
17 OR05039-4	319	607	575	99	464	491 4 bcd	377	387	349	531	586	540	685	494 11 bcde
18 POR06V12-3	299	506	373	146	478	414 16 cd	357	428	419	508	477	738	724	522 8 abc
Location Means	347	541	482	98	492	466	390	411	362	470	582	647	695	509

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: 2014 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	SPR	OTH	Mean/Rank		TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank			
1 RANGER R.	264	484	258	72	469	369	11	cde	329	422	326	360	566	417	572	427	8	bcdef
	85	84	61	68	89	80	14		74	90	75	70	90	78	84	80	12	
2 R. BURBANK	196	407	150	34	317	268	18	f	282	298	188	254	539	573	478	373	12	defg
	53	82	40	31	68	61	18		74	73	55	54	79	75	66	68	16	
3 R. NORKOTAH	319	222	372	52	407	330	15	def	333	285	201	329	508	284	601	363	13	efg
	90	76	72	55	87	81	11		86	87	82	83	92	85	88	86	4	
4 SHEPODY	355	485	346	66	497	421	4	abcd	.	233	.	.	.	.	.	.	.
	89	89	70	69	90	85	4		.	64	.	.	.	.	.	.	.
5 A02062-1TE	301	397	435	89	403	384	9	bcde	.	319	.	.	.	.	.	.	.
	92	88	79	66	90	87	2		.	95	.	.	.	.	.	.	.
6 A02424-83LB	262	460	302	27	395	355	13	cdef	261	357	368	425	443	579	559	427	8	bcdef
	84	85	78	42	78	81	11		75	74	79	82	91	74	85	80	12	
7 A02507-2LB	221	473	324	22	284	326	17	ef	251	432	361	433	464	567	594	443	5	abcd
	83	82	73	56	81	80	14		75	92	83	88	92	83	87	86	4	
8 A03158-2TE	377	581	468	86	473	475	2	ab	391	437	388	507	617	434	726	500	2	ab
	86	88	77	61	87	85	4		87	89	81	83	91	81	89	86	4	
9 A03921-2	279	482	241	62	460	365	12	cde	288	417	364	399	558	837	629	499	3	ab
	84	89	67	62	88	82	10		78	81	81	80	93	86	88	84	7	
10 A06021-1T	327	407	403	34	475	403	7	abcde	329	359	338	277	570	504	593	424	10	bcdef
	90	91	82	52	92	89	1		86	89	89	82	92	92	89	89	1	
11 A06084-1TE	243	416	363	97	353	343	14	cdef	321	239	218	285	426	417	480	341	16	g
	66	86	76	70	78	76	17		81	73	73	68	80	85	80	77	14	
12 AO01114-4	241	457	494	49	451	411	5	abcde	294	290	290	271	525	390	473	362	14	efg
	74	87	85	50	87	83	8		86	81	84	64	82	84	81	81	10	
13 AO02060-3	302	398	409	31	401	378	10	cde	291	294	108	286	468	472	574	356	15	fg
	88	83	79	67	86	84	7		77	86	61	82	90	87	85	81	10	
14 CO03276-5RU	396	650	362	33	512	480	1	a	368	284	98	333	543	543	594	395	11	cdefg
	84	86	73	45	82	81	11		77	70	41	70	86	80	83	72	15	
15 CO05068-1RU	268	604	323	54	431	406	6	abcde	379	408	280	458	524	857	667	510	1	a
	82	90	67	50	91	83	8		86	90	76	88	88	91	89	87	2	
16 CO05175-1RU	300	529	361	66	424	403	7	abcde	310	406	277	338	509	670	654	452	4	abc
	91	91	70	61	88	85	4		83	93	74	75	89	83	85	83	8	
17 OR05039-4	259	555	509	77	391	428	3	abc	314	368	292	449	549	454	587	430	7	bcdef
	81	91	89	78	84	86	3		83	95	84	85	94	84	86	87	2	
18 POR06V12-3	227	427	275	80	385	328	16	def	259	347	329	426	400	639	647	435	6	abcde
	76	84	74	55	81	79	16		72	81	78	84	84	87	89	82	9	
Location Means	285	469	355	57	418	382			312	344	277	365	513	540	589	421		
	82	86	73	58	85	82			80	83	75	77	88	84	85	82		

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 5: 2014 Western Regional Potato Variety Trial - YIELD > 10/12 OZ [CWT/A (upper) & % (lower)] - EARLY AND LATE HARVEST

No. Clone	U.S. No. 1's > 10/12 OZ - Early Harvest (CWT/A) and %								U.S. No. 1's > 10/12 OZ - Late Harvest (CWT/A) and %									
	ID	OR	TX		WA	Entry			CA	CO	ID		OR	WA	Entry			
	PAR	HRM	DAL	SPR	OTH	Mean/Rank	Mean/Rank	Mean/Rank	TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank	Mean/Rank	Mean/Rank
1 RANGER R.	109	236	83	10	175	151	7	abcd	133	179	200	188	318	235	261	216	5	abce
	35	41	20	9	33	32	7		30	38	46	36	50	44	38	40	5	
2 R. BURBANK	40	146	9	0	104	75	16	de	96	96	55	102	258	303	238	164	10	defg
	11	29	2	0	22	16	16		25	24	16	22	38	40	33	28	12	
3 R. NORKOTAH	130	26	99	2	108	91	13	cde	151	80	44	131	320	100	164	141	12	efg
	36	9	19	2	23	22	12		39	24	18	33	58	30	24	32	9	
4 SHEPODY	229	185	174	13	327	229	1	a	.	39	.	.	.	.	.	.	.	.
	58	34	35	14	59	46	1		.	11	.	.	.	.	.	.	.	.
5 A02062-1TE	130	136	254	8	197	179	4	ab	.	142	.	.	.	.	.	.	.	.
	40	30	46	6	44	40	3		.	42	.	.	.	.	.	.	.	.
6 A02424-83LB	30	87	86	1	15	55	18	e	29	33	101	96	140	227	266	127	13	fg
	10	16	22	2	3	13	18		8	7	22	18	29	29	41	22	15	
7 A02507-2LB	44	35	207	0	34	80	15	cde	67	210	198	188	293	202	170	190	7	cdef
	17	6	47	0	10	20	15		20	44	45	38	58	30	25	37	6	
8 A03158-2TE	199	259	233	8	144	209	2	ab	244	165	218	287	409	237	433	285	1	a
	46	39	39	5	26	37	5		54	34	46	47	60	44	53	48	1	
9 A03921-2	130	248	165	13	196	185	3	ab	138	105	186	223	338	592	309	270	2	ab
	39	46	46	13	38	42	2		37	20	41	44	56	61	43	43	3	
10 A06021-1T	154	135	170	2	171	157	6	abc	127	113	64	82	276	223	307	170	9	defg
	42	30	35	4	33	35	6		33	28	17	24	45	41	46	33	8	
11 A06084-1TE	104	99	123	4	46	93	12	cde	120	76	35	72	178	209	136	118	15	g
	28	20	26	3	10	21	13		30	23	12	17	33	43	23	26	14	
12 AO01114-4	78	163	189	2	158	147	9	bcd	133	46	66	103	207	139	190	127	13	fg
	24	31	32	2	30	29	10		39	13	19	25	32	30	33	27	13	
13 AO02060-3	107	125	234	4	78	136	11	bcd	133	44	0	88	250	287	212	145	11	efg
	31	26	45	8	17	30	8		36	13	0	25	48	53	32	30	11	
14 CO03276-5RU	109	278	83	0	105	144	10	bcd	81	35	3	60	193	210	182	109	16	g
	23	37	17	0	17	23	11		17	9	1	13	31	31	26	18	16	
15 CO05068-1RU	58	110	69	1	64	75	16	de	144	127	56	214	208	554	288	227	4	abcd
	18	16	14	1	13	16	16		33	28	15	41	35	59	38	36	7	
16 CO05175-1RU	152	241	206	9	114	178	5	ab	147	264	114	167	308	499	276	254	3	abc
	46	42	40	8	24	38	4		39	60	30	37	54	62	36	45	2	
17 OR05039-4	124	203	219	5	51	149	8	bcd	134	151	137	251	329	223	244	210	6	bcde
	39	33	38	5	11	30	8		35	39	39	47	56	41	36	42	4	
18 POR06V12-3	35	116	148	8	46	86	14	cde	76	100	104	189	142	382	213	172	8	defg
	12	23	40	5	10	21	13		21	23	25	37	30	52	29	31	10	
Location Means	109	157	153	5	119	134			122	111	99	153	260	289	243	183		
	31	28	31	5	24	28			31	27	25	32	45	43	35	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: 2014 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	SPR	OTH	Mean/Rank		TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank			
1 RANGER R.	22	28	98	12	38	46	12	defg	38	25	17	33	35	21	48	31	14	ef
	7	5	23	11	7	11	9		8	5	4	6	6	4	7	6	13	
2 R. BURBANK	44	45	82	34	65	59	7	bcdef	57	71	49	58	81	35	56	58	3	bc
	12	9	22	31	14	14	6		15	17	14	12	12	5	8	12	4	
3 R. NORKOTAH	31	53	107	38	51	61	5	bcd	33	38	36	36	35	22	62	38	8	ef
	9	18	21	41	11	15	4		9	12	15	9	6	7	9	9	7	
4 SHEPODY	23	40	54	16	35	38	15	fg	.	92	.	.	.	.	.	.	.
	6	7	11	16	6	8	14		.	25	.	.	.	.	.	.	.
5 A02062-1TE	23	38	45	29	31	34	17	g	.	13	.	.	.	.	.	.	.
	7	9	8	22	7	8	14		.	4	.	.	.	.	.	.	.
6 A02424-83LB	46	58	85	32	82	68	4	abc	67	118	51	66	36	24	45	58	3	bc
	15	11	22	50	16	16	2		19	24	11	13	7	3	7	12	4	
7 A02507-2LB	30	85	50	11	57	56	8	bcdef	41	18	18	31	25	33	71	34	12	ef
	11	15	11	27	16	13	7		12	4	4	6	5	5	10	7	10	
8 A03158-2TE	27	41	76	43	55	50	9	cdefg	28	45	24	52	38	32	47	38	8	ef
	6	6	12	31	10	9	11		6	9	5	9	6	6	6	7	10	
9 A03921-2	35	29	36	31	30	32	18	g	32	66	20	33	28	25	29	33	13	ef
	11	5	10	30	6	8	14		9	13	4	7	5	3	4	6	13	
10 A06021-1T	34	30	50	30	32	37	16	fg	40	26	34	44	48	27	41	37	10	ef
	9	7	10	46	6	8	14		11	6	9	13	8	5	6	8	9	
11 A06084-1TE	58	57	86	41	82	71	2	ab	42	75	70	110	72	23	77	67	2	b
	16	12	18	30	18	16	2		10	23	24	26	13	5	13	16	2	
12 AO01114-4	21	52	72	48	48	48	11	defg	30	52	22	44	41	51	45	41	7	def
	6	10	12	49	9	9	11		9	15	6	10	6	11	8	9	7	
13 AO02060-3	29	55	60	15	55	50	9	cdefg	33	41	68	49	31	30	62	45	6	cde
	9	11	11	33	12	11	9		9	12	38	14	6	6	9	13	3	
14 CO03276-5RU	69	54	109	37	102	83	1	a	93	113	134	117	87	56	83	97	1	a
	15	7	22	50	16	15	4		19	28	56	24	14	8	12	23	1	
15 CO05068-1RU	54	56	94	29	37	60	6	bcd	29	28	51	32	47	22	38	36	11	ef
	16	8	19	27	8	13	7		7	6	14	6	8	2	5	7	10	
16 CO05175-1RU	19	26	55	16	57	40	14	efg	26	17	32	42	28	9	44	28	15	f
	6	5	11	15	12	8	14		7	4	8	9	5	1	6	6	13	
17 OR05039-4	31	34	56	17	44	41	13	defg	23	17	15	27	19	24	68	27	16	f
	10	6	10	17	9	9	11		6	4	4	5	3	5	10	5	16	
18 POR06V12-3	68	68	61	61	87	71	2	ab	61	51	65	44	77	47	55	57	5	bcd
	23	13	16	42	18	18	1		17	12	15	9	16	6	8	12	4	
Location Means	37	47	71	30	55	52			42	50	44	51	45	30	54	45		
	11	9	15	32	11	12			11	12	15	11	8	5	8	10		

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: 2014 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	SPR	OTH	Mean/Rank	TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank
1 RANGER R.	1.084	1.071	1.075	1.080	1.081	1.078 7 cde	1.098	1.090	1.087	1.085	1.088	1.071	1.077	1.085 7 de
2 R. BURBANK	1.082	1.064	1.060	1.071	1.078	1.071 16 ghi	1.088	1.084	1.071	1.075	1.080	1.072	1.077	1.078 14 gh
3 R. NORKOTAH	1.077	1.063	1.065	1.066	1.077	1.069 17 hi	1.077	1.078	1.072	1.078	1.073	1.056	1.068	1.072 16 i
4 SHEPODY	1.081	1.066	1.068	1.080	1.073	1.074 11 efgh	.	1.088	.	.	.	.	.	.
5 A02062-1TE	1.074	1.065	1.063	1.068	1.074	1.069 17 i	.	1.082	.	.	.	.	.	.
6 A02424-83LB	1.088	1.067	1.076	1.073	1.085	1.078 7 cdef	1.096	1.093	1.099	1.091	1.094	1.081	1.086	1.091 5 bc
7 A02507-2LB	1.090	1.079	1.075	1.072	1.082	1.080 4 bc	1.098	1.089	1.090	1.093	1.100	1.089	1.090	1.093 3 b
8 A03158-2TE	1.081	1.066	1.066	1.073	1.080	1.073 13 ghi	1.086	1.083	1.082	1.082	1.080	1.067	1.074	1.079 12 fgh
9 A03921-2	1.102	1.084	1.081	1.089	1.089	1.089 1 a	1.106	1.103	1.097	1.096	1.105	1.096	1.093	1.099 1 a
10 A06021-1T	1.082	1.072	1.075	1.078	1.097	1.081 3 bc	1.087	1.084	1.087	1.086	1.087	1.070	1.078	1.083 9 e
11 A06084-1TE	1.083	1.068	1.072	1.075	1.076	1.075 9 defg	1.089	1.077	1.075	1.079	1.081	1.069	1.073	1.078 14 gh
12 AO01114-4	1.090	1.077	1.073	1.074	1.086	1.080 4 bc	1.102	1.090	1.089	1.088	1.091	1.075	1.084	1.088 6 cd
13 AO02060-3	1.082	1.070	1.072	1.072	1.080	1.075 9 defg	1.093	1.094	1.081	1.080	1.086	1.068	1.079	1.083 9 e
14 CO03276-5RU	1.080	1.071	1.066	1.064	1.078	1.072 14 ghi	1.089	1.088	1.072	1.082	1.077	1.069	1.073	1.079 12 fgh
15 CO05068-1RU	1.089	1.081	1.080	1.084	1.086	1.084 2 b	1.106	1.100	1.090	1.099	1.101	1.093	1.088	1.097 2 a
16 CO05175-1RU	1.078	1.068	1.061	1.073	1.081	1.072 14 ghi	1.088	1.084	1.087	1.081	1.084	1.071	1.077	1.082 11 ef
17 OR05039-4	1.078	1.067	1.076	1.069	1.079	1.074 11 efgh	1.098	1.088	1.085	1.085	1.087	1.072	1.078	1.085 7 de
18 POR06V12-3	1.088	1.081	1.073	1.078	1.081	1.080 4 bc	1.093	1.095	1.097	1.092	1.090	1.088	1.087	1.092 4 bc
Location Means	1.084	1.071	1.071	1.074	1.081	1.076	1.094	1.088	1.085	1.086	1.088	1.076	1.080	1.085

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

Entries not represented at all locations excluded from location means and statistical analyses.

TABLE 8: 2014 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								
	Early Trial						Late Trial							Early Trial					Late Trial					Location Means								
	ID	OR	TX	WA	CA	Mean	TUL	AB	KIM	PAR	HRM	OTH	Mean	OR	TX	WA	CA	CO	ID	OR	WA	TUL	SLV	AB	PAR	EPAR	L	HRM	OTH			
1 RANGER R.	7.5	7.8	5.6	6.3	7.8	7.2	6.9	9.3	8.0	8.8	8.6	8.9	8.4	4.0	4.0	4.0	4.0	4.0	4.9	4.0	5.0	4.0	4.0	3.0	4.1	2.38	1.85	2.26	1.82	1.92	1.90	1.89
2 R. BURBANK	6.4	6.8	5.2	3.7	6.9	6.4	6.0	6.4	6.9	7.0	8.2	9.4	7.3	4.5	4.0	4.0	3.0	3.9	4.0	4.0	4.4	3.6	4.5	3.0	3.9	2.08	1.84	1.90	1.75	1.90	1.72	1.90
3 R. NORKOTAH	7.0	5.3	5.6	4.2	6.7	6.1	7.2	5.6	6.9	8.4	6.7	7.5	7.1	2.5	4.0	4.0	3.7	3.5	3.8	4.0	4.0	3.1	3.0	3.0	3.5	1.95	1.93	1.92	1.70	1.84	1.80	
4 SHEPODY	9.3	7.3	7.8	5.8	9.9	8.6	.	.	.	.	.	.	.	4.0	4.0	4.0	3.0	3.8	.	4.0	.	.	.	3.0	.	.	1.99	.	1.58	.	.	
5 A02062-1TE	7.5	6.7	8.8	4.8	8.6	7.9	.	.	.	.	.	.	.	3.5	4.0	4.0	4.7	4.0	.	3.0	.	.	.	3.0	.	.	2.00	.	1.96	.	.	
6 A02424-83LB	5.2	6.0	5.9	3.5	5.7	5.7	5.2	7.1	6.1	6.7	7.8	8.6	6.9	4.0	4.0	3.5	3.0	3.6	4.0	3.0	4.3	3.0	3.0	3.0	3.4	1.98	1.96	1.86	1.66	1.73	1.69	1.81
7 A02507-2LB	5.8	5.1	8.4	4.5	5.8	6.3	6.0	8.8	7.7	10.0	7.5	7.5	7.9	3.0	4.0	2.0	2.5	2.9	3.6	3.0	3.5	2.9	3.0	3.0	3.2	1.88	1.66	1.71	1.45	1.53	1.44	1.41
8 A03158-2TE	7.8	7.8	7.1	4.8	7.0	7.4	8.4	9.9	7.7	8.8	8.0	10.1	8.8	4.0	4.0	3.5	3.3	3.7	3.9	3.0	4.1	3.3	4.5	3.0	3.6	2.00	1.77	1.91	1.57	1.83	1.70	1.56
9 A03921-2	6.9	8.1	8.1	5.2	8.5	7.9	7.1	8.8	8.3	9.3	10.6	9.9	9.0	3.5	3.6	4.0	3.3	3.6	3.8	4.0	4.1	3.1	3.0	3.0	3.5	1.80	1.78	1.94	1.92	1.80	1.68	1.55
10 A06021-1T	7.1	6.7	7.5	4.0	7.9	7.3	6.6	6.2	6.0	7.4	8.4	9.6	7.4	2.5	4.0	3.5	4.0	3.5	3.1	3.0	3.5	3.3	3.0	3.0	3.1	1.79	1.73	1.75	1.61	1.77	1.57	1.68
11 A06084-1TE	6.3	6.1	5.9	7.3	5.8	6.0	6.4	5.2	4.7	6.6	8.0	7.0	6.3	3.0	4.0	4.0	3.0	3.5	3.9	3.0	4.3	3.6	3.0	3.0	3.5	2.06	1.94	2.05	2.01	2.00	1.84	1.78
12 AO01114-4	7.2	6.7	7.0	3.7	7.5	7.1	7.3	7.2	7.0	8.2	6.1	8.6	7.4	3.5	4.0	4.0	3.0	3.6	3.6	4.0	3.8	3.0	2.5	3.0	3.3	1.88	1.56	1.89	1.62	1.84	1.70	1.70
13 AO02060-3	6.7	6.6	7.8	4.2	6.5	6.9	7.0	3.7	5.8	8.2	8.4	7.8	6.8	4.0	4.0	3.0	2.8	3.5	3.9	3.0	3.3	3.0	3.0	3.0	3.2	2.11	1.67	1.78	1.67	1.85	1.75	1.80
14 CO03276-5RU	5.8	7.3	4.9	3.4	6.1	6.0	5.3	3.3	4.8	5.8	6.8	7.2	5.5	3.0	4.0	4.0	3.7	3.7	4.1	4.0	4.0	3.5	3.0	3.0	3.6	2.13	1.88	2.12	1.79	1.95	1.81	
15 CO05068-1RU	5.2	6.4	5.5	4.5	6.6	5.9	7.2	6.4	7.7	7.1	9.4	9.2	7.8	3.5	2.5	3.0	2.8	3.0	3.1	5.0	3.3	3.0	3.0	3.0	3.4	1.62	1.65	1.77	1.59	1.61	1.44	1.43
16 CO05175-1RU	7.8	7.8	8.0	5.9	6.7	7.6	7.5	7.6	7.2	9.5	11.7	9.5	8.8	3.0	4.0	3.5	3.2	3.4	3.4	3.0	4.6	3.1	4.0	3.0	3.5	1.80	1.92	1.90	1.68	1.94	1.87	1.67
17 OR05039-4	7.3	7.3	7.5	5.1	6.6	7.2	7.5	8.6	8.4	9.3	8.1	7.9	8.3	4.0	4.0	4.0	3.0	3.8	4.0	4.0	4.5	3.6	3.0	3.0	3.7	2.12	2.01	2.06	2.05	1.94	1.86	1.84
18 POR06V12-3	4.7	6.0	6.8	4.5	5.7	5.8	6.3	6.3	7.4	6.0	8.8	8.0	7.1	2.5	3.5	2.5	4.0	3.1	3.9	5.0	3.5	3.0	3.0	3.0	3.6	1.96	1.79	1.73	1.49	1.66	1.65	1.64
Location Means	6.8	6.8	6.9	4.7	7.0	6.8	6.7	6.9	6.9	7.9	8.3	8.6	7.6	3.4	3.9	3.6	3.3	3.6	3.8	3.7	4.0	3.3	3.3	3.0	3.5	1.97	1.83	1.91	1.72	1.82	1.71	1.69

¹Springlake excluded from location means¹ Washington reported mean of 2.06 for Idaho samples and 1.80 for Oregon samples.

TABLE 9: 2014 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	4.3	4.9	4.8	3.2	4.8	4.8
2 R. BURBANK	4.4 PAR 3.7	4.0 KIM 2.8 PAR 3.0	3.7 PAR 3.0 HRM 3.1 OTH 2.3	3.5 SLV 2.0 AB 3.5 KIM 2.0 PAR 3.3	4.9	3.9 OTH 2.0	2.6	5.0	4.9
3 R. NORKOTAH	5.0	5.0	4.9	4.7	5.0	4.7	3.2	4.9	4.8
4 SHEPODY	5.0	.	4.6	.	5.0	.	.	4.4 OTH 3.3	.
5 A02062-1TE	5.0	.	5.0	.	5.0	.	.	4.8	.
6 A02424-83LB	5.0	5.0	4.9	4.7	4.8	2.9 OTH 1.0	3.0	4.4 OTH 3.3	3.5 AB 2.8 OTH 1.8
7 A02507-2LB	5.0	4.8	4.9	4.7	4.8	3.2 OTH 2.0	2.5	4.7	4.8
8 A03158-2TE	4.7	4.3 KIM 3.0	4.8	4.8	4.9	4.0	3.1	4.9	4.8
9 A03921-2	4.7	4.6	4.8	4.5	4.8 HRM 3.8	3.4 OTH 2.0	3.1	4.6 OTH 3.3	4.8
10 A06021-1T	4.9	4.9	4.9	4.9	4.8	4.0	2.6	4.8	4.7
11 A06084-1TE	4.9	4.8	4.8	4.3	4.8	4.0	3.5	4.7	4.7
12 AO01114-4	4.6 PAR 3.5	3.8 KIM 1.8 PAR 2.3	4.8	4.5	4.9	3.2 TUL 2.5 OTH 1.0	2.5	4.7 HERM 3.5	4.9
13 AO02060-3	4.6 HRM 3.6	4.6 PAR 3.3	5.0	4.9	4.8	3.9	3.5	4.6	4.7
14 CO03276-5RU	4.8	4.9	4.8	4.8	4.9	3.7 OTH 2.0	3.0	4.9	4.8
15 CO05068-1RU	5.0	4.8	5.0	4.8	4.9	4.1	3.3	4.9	4.8
16 CO05175-1RU	5.0	4.6	4.9	4.5	4.8	4.6	3.2	5.0	4.9
17 OR05039-4	4.9	4.4	4.9	4.7	4.9	3.9	3.2	4.5 HRM 3.6	4.4 AB 3.5
18 POR06V12-3	5.0	4.9	5.0	4.6	4.9	4.1	3.0	5.0	4.9
Entry Means	4.8	4.6	4.8	4.6	4.9	3.9	3.0	4.8	4.7

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: 2014 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))]			Hermiston ³					
	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	Early Trial	Late Trial	ID ²	E	L				
1 RANGER R.	0	0	2	2	4	7 HRM 28	4.7	3	TUL 3.0 OTH 3.0	2.0	18	28			
2 R. BURBANK	2	13	TUL 15 AB 33 PAR 23	1	1	4	6 HRM 28	4.7	4.5	2.8	25	33			
3 R. NORKOTAH	2	3	1	1	5	HRM 15	7 HRM 33	5.0	4.7	2.6	8	0			
4 SHEPODY	2	0	5	HRM 13	.	13	.	5.0	5.0	.	5	.			
5 A02062-1TE	0	0	1	.	2	.	5.0	4.9	.	0	.	.			
6 A02424-83LB	0	2	0	12	PAR 30 HRM 28	7	4	4.7	4.6	2.8	33	25			
7 A02507-2LB	0	0	6	HRM 23	12	HRM 63	3	2	5.0	4.7	3.1	30	18		
8 A03158-2TE	11	PAR 27 HRM 23	9	HRM 30	4	HRM 18	3	3	5.0	4.5	2.7	8	13		
9 A03921-2	3	6	AB 15 PAR 17	15	PAR 23 HRM 43	14	HRM 60	4	8	PAR 20	4.7	4.3	2.4	30	28
10 A06021-1T	2	3	PAR 17	5	PAR 20	4	3	5	5.0	4.4	2.3	15	25		
11 A06084-1TE	0	4	AB 13	1	5	HRM 18	2	6	HRM 20	5.0	4.7	2.9	15	35	
12 AO01114-4	1	6	TU 23 AB 20	1	3	3	5	HRM 25	5.0	4.9	2.8	8	5		
13 AO02060-3	4	2	1	4	PAR 20	11	HRM 33	8	HRM 38	5.0	4.6	3.2	8	10	
14 CO03276-5RU	1	1	2	.	1	HRM 20	5.0	4.5	.	18	13				
15 CO05068-1RU	9	PAR 30	21	TUL 20 PAR 27	AB 78 HRM 15	3	12	TUL 15 HRM 45	3	3	4.7	4.1	2.5	15	18
16 CO05175-1RU	7	PAR 17 DAL 15	12	TUL 33 AB 23	1	2	1	5	HRM 25	5.0	4.7	3.2	8	25	
17 OR05039-4	0	1	5	HRM 18	1	3	3	5.0	4.9	3.0	10	0			
18 POR06V12-3	12	DAL 58	7	AB 35	1	1	2	2	5.0	4.8	3.1	5	23		
Entry Means	3	5	3	5	4	5	4.9	4.6	2.7	14	18				

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)].

³Hermiston scores given as percent; includes heat bruise.

TABLE 11: 2014 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	L		Mean
L	E	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	
1 RANGER R.	3.0	0.2	2.0	2.1	3.0	0.8	0.6	0.2	2.0	1.8	3.4	2.7	3.0	3.0	63	92	10	13	44
2 R. BURBANK	2.0	0.5	2.0	1.6	3.0	1.5	1.0	1.0	3.0	2.4	4.0	2.8	4.0	3.6	46	88	8	8	37
3 R. NORKOTAH	1.0	0.2	.	0.7	3.0	1.6	1.1	0.5	.	2.3	4.0	2.6	.	3.3	25	75	10	8	30
4 SHEPODY	2.0	0.0	.	1.3	3.0	.	.	.	.	.	.	.	.	.	.	.	3	.	.
5 A02062-1TE	1.0	0.0	.	0.7	0.0	.	.	.	.	.	.	.	.	.	.	.	0	.	.
6 A02424-83LB	2.0	0.0	1.0	1.3	1.0	0.6	0.5	0.2	0.0	0.6	1.0	1.8	2.0	1.6	13	46	3	0	15
7 A02507-2LB	0.0	0.0	0.0	0.0	1.0	0.4	0.5	0.2	0.0	0.6	0.9	2.7	0.0	1.2	25	46	3	13	21
8 A03158-2TE	1.0	0.2	1.0	0.8	2.0	1.0	0.6	0.2	1.0	1.3	3.6	2.3	3.0	3.0	38	17	13	0	17
9 A03921-2	2.0	0.0	1.0	1.3	2.0	0.5	0.7	0.0	0.0	1.0	0.6	3.9	1.0	1.8	46	33	3	0	20
10 A06021-1T	2.0	0.5	1.0	1.4	2.0	1.1	1.0	0.5	2.0	1.7	2.8	2.2	3.0	2.7	13	8	5	8	9
11 A06084-1TE	1.0	0.0	0.0	0.5	0.0	0.3	0.3	0.0	0.0	0.1	0.8	3.3	1.0	1.7	17	44	0	8	17
12 AO01114-4	3.0	0.0	0.0	1.5	3.0	1.0	0.7	0.2	1.0	1.7	3.3	3.0	3.0	3.1	38	21	8	0	16
13 AO02060-3	0.0	0.0	0.0	0.0	1.0	0.6	0.3	0.0	1.0	0.7	4.0	2.5	3.0	3.2	13	33	0	0	11
14 CO03276-5RU	2.0	0.2	.	1.4	3.0	1.7	0.8	0.5	.	2.3	4.0	2.3	.	3.1	23	33	10	8	19
15 CO05068-1RU	0.0	0.2	0.0	0.1	1.0	0.5	0.6	0.5	0.0	0.7	2.0	2.7	2.0	2.2	4	46	0	13	16
16 CO05175-1RU	1.0	0.0	0.0	0.5	2.0	0.5	0.7	0.2	1.0	1.2	3.4	3.0	3.0	3.2	38	67	5	8	29
17 OR05039-4	3.0	0.2	0.0	1.6	0.0	0.5	0.5	0.2	0.0	0.2	1.1	2.7	1.0	1.6	58	21	0	0	20
18 POR06V12-3	1.0	0.0	0.0	0.3	1.0	0.7	0.5	0.0	0.0	0.4	1.1	2.2	2.0	1.8	42	58	5	8	28
Location Means	1.5	0.1	0.6	0.9	1.7	0.8	0.6	0.1	0.8	1.2	2.5	2.7	2.2	2.5	31	45	5	6	22

Storage protocol prior to frying

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

Hermiston - 3 weeks from 55F to 45 F, and 9 weeks @ 47F.

Kimberly - 6 weeks from 55F to 45F, 7 weeks from 55F to 40F, and 8 weeks @ 45F and 9 weeks @ 40F.

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

San Luis Valley - 4 weeks from 55F to 45F, and 8 weeks @ 45.

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

TABLE 12: 2014 Western Regional Potato Variety Trial - DISEASE EVALUATION AND METRIBUZIN REACTION

No.	Clone	Vert. Wilt/ Early Dying			Early Blight AB ¹		Common Scab AB ¹		Net Necrosis/ Vasc. Discoloration ¹		Prosser		Fusarium		Soft	Metribuzin			
		AB ¹		HRM ²	TUL ³		Foliar		Tuber	Percent	Percent	Percent	Fusarium		Rot ¹	Reaction ⁵			
		(0-9)	AUDPC	(0-9)	(0-9)	AUDPC	(0-9)	AUDPC	%	Incid.	Defect	Incidence	Serious	Corky	Ringspot	F(sam)	F(sol)	(0-5)	AB
1	RANGER R.	7.3	653	4.0	4	254	6.3	583	71	8	5	74	15	78	51	2.1	2.2	4.3	.
2	R. BURBANK	8.0	893	6.3	4.5	308	6.7	677	24	3	0	52	3	69	58	4.7	2.4	4.9	R
3	R. NORKOTAH	9	1225	7.5	8	1344	9.0	1033	10	0	0	67	3	91	74	2.1	2.3	3.2	.
4	SHEPODY	.	.	.	.	.	.	.	.	.	.	.	.	54	23	.	.	.	VS
5	A02062-1TE	8.3	893	.	.	.	7.3	875	11	0	0	43	3	50	25	4.9	2.3	1.4	R
6	A02424-83LB	7	152	4.3	4	173	4.3	345	97	23	14	57	7	57	38	4.1	1.8	3.8	R
7	A02507-2LB	5	149	5.5	3	101	4.0	217	19	4	2	79	5	24	11	4.7	1.3	1.3	R
8	A03158-2TE	8.0	700	4.3	4.1	331	7.0	735	12	3	1	51	18	36	15	4.7	1.5	3.6	R
9	A03921-2	8.0	601	5.3	3.8	363	5.3	502	16	7	3	84	12	56	30	4.4	2.7	4.8	R
10	A06021-1T	8.3	968	7.5	4.6	466	7.3	823	55	3	1	68	2	79	67	4.5	1.5	2.4	R
11	A06084-1TE	8	1068	6.5	4.5	376	7.3	863	54	7	7	59	15	58	49	5.0	2.2	3.2	R
12	AO01114-4	8.3	823	4.8	5.5	560	7.0	776	16	0	0	46	3	47	29	3.6	1.7	3.0	R
13	AO02060-3	9	1015	5.5	4.9	418	7.7	945	62	6	2	42	0	67	45	4.8	2.1	3.0	R
14	CO03276-5RU	9	1208	6.8	5.5	642	8.3	998	32	0	0	45	7	55	30	3.6	3.1	3.0	S
15	CO05068-1RU	7.3	349	5.0	4	148	4.3	370	0	3	0	63	9	49	23	4.3	2.2	1.4	S
16	CO05175-1RU	7.7	543	4.5	4.1	254	5.7	543	15	6	0	56	9	82	60	4.3	2.5	2.8	R
17	OR05039-4	6.7	446	3.8	4.9	419	4.7	352	91	24	0	62	0	4	1	4.5	2.2	2.1	R
18	POR06V12-3	7.7	484	6.0	4.1	309	5.0	434	4	0	0	48	2	2	0	3.4	1.6	1.8	R
Entry Means		7.8	716	5.5	4.5	404	6.3	651	35	6	2	59	7	53	35	4.1	2.1	2.9	
LSD (.05)		0.9					1.3		24	17	9	24	17			3.7	2.2	2.5	

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 107, 114, and 121 days after planting.

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

For 0 to 5: 0=0%/none; 5=100%/severe as a combination of tuber area and degree impacted by Fusarium and Pectobacterium inoculations.

² Evaluations made at Hermiston, Oregon; scale as indicated with highest number being most severe. Readings 120 days after planting except in instances where 90 day reading was higher of the two; indicated in red.

³ Evaluations made at Tulelake, California; scale as indicated, highest number (9=90-100%) being most severe. AUDPC based on foliar readings taken % Virus are from evaluation of sprouts from tubers grown under high virus pressure. 80, 92 and 99 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: 2014 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.	23.1	0.05	0.15	5.1	28.3	6.2
2 R. BURBANK	18.4	0.07	0.11	5.1	16.3	3.9
3 R. NORKOTAH	19.9	0.10	0.11	4.3	19.3	4.3
4 SHEPODY	.	.	.	.	.	.
5 A02062-1TE	.	.	.	.	.	.
6 A02424-83LB	24.6	0.01	0.17	6.2	28.3	5.2
7 A02507-2LB	24.8	0.01	0.16	6.2	21.2	12.2
8 A03158-2TE	19.0	0.07	0.12	5.9	24.5	3.7
9 A03921-2	25.5	0.02	0.17	5.9	28.0	6.5
10 A06021-1T	22.1	0.06	0.13	5.5	20.2	4.9
11 A06084-1TE	20.5	0.00	0.14	6.3	20.9	3.6
12 AO01114-4	22.4	0.07	0.17	5.8	21.3	1.6
13 AO02060-3	20.1	0.02	0.11	5.5	17.9	5.3
14 CO03276-5RU	18.8	0.09	0.08	5.2	25.7	10.2
15 CO05068-1RU	21.9	0.01	0.15	4.2	21.4	11.8
16 CO05175-1RU	21.9	0.04	0.17	5.9	26.4	1.4
17 OR05039-4	22.1	0.04	0.15	6.7	16.0	13.9
18 POR06V12-3	24.6	0.03	0.16	5.3	17.6	14.2
Entry Means	21.9	0.04	0.14	5.6	22.1	6.8

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

² Glycoalkaloids: The 2014 Lenape check grown at Aberdeen was 30.7 mg/100g

TABLE 14: 2014 Western Regional Potato Variety Trial - MERIT SCORES [1-5(best)]

No. Clone	Process												Process WA ¹ 3 State Mean	Fresh														
	CO		ID		OR		WA		Early Trial		Late Trial			CA	CO		ID		OR		TX		WA		Early Trial		Late Trial	
	SLV	AB	KIM	HRM	OTH	HRM	OTH	HRM	OTH	Mean(Rnk)	Mean(Rnk)	3 State			TUL	SLV	AB	KIM	HRM	OTH	DAL	SPR	OTH	OTH	Mean(Rnk)	Mean(Rnk)	Mean(Rnk)	Mean(Rnk)
L	L	L	E	L	E	L	E	L				L	L	L	L	E	L	E	E	E	L							
1 RANGER R.	1.0	3.5	3.5	3.0	2.0	4.3	2.8	3.7	6	2.6	13	3.1	2.6	5.0	3.0	3.2	2.0	2.0	2.1	2.5	2.6	1.3	2.3	15	2.8	9		
2 R. BURBANK	2.0	2.5	3.5	2.0	2.0	1.3	2.0	1.7	18	2.4	14	1.7	3.1	2.0	2.0	2.3	2.0	2.0	2.0	2.0	0.9	0.4	1.7	18	2.0	16		
3 R. NORKOTAH	1.0	2.5	2.5	2.0	2.0	2.6	.	2.3	17	2.0	16	.	3.5	1.0	4.1	3.9	3.0	3.0	3.1	3.7	2.3	3.5	3.0	6	3.2	5		
4 SHEPODY	1.0	.	.	2.0	.	3.8	.	2.9	14	.	.	.	.	1.0	.	.	2.0	.	2.6	2.5	1.9	.	2.3	15	.	.
5 A02062-1TE	4.0	.	.	3.0	.	2.6	.	2.8	15	.	.	.	.	2.0	.	.	3.0	.	2.5	3.6	3.5	.	3.2	5	.	.
6 A02424-83LB	4.0	4.0	5.0	3.0	1.0	3.4	2.5	3.2	12	3.3	8	3.2	2.1	3.0	2.5	3.5	2.0	1.0	2.5	2.3	1.0	1.0	1.9	17	2.2	15		
7 A02507-2LB	5.0	4.5	4.5	3.0	2.0	2.0	4.8	2.5	16	4.2	1	4.5	3.0	5.0	3.3	3.6	3.0	2.0	3.1	3.0	1.3	2.4	2.6	12	3.2	5		
8 A03158-2TE	5.0	3.5	4.5	3.0	2.0	4.2	2.6	3.6	7	3.5	7	2.6	3.4	5.0	3.9	3.3	3.0	3.0	2.0	3.1	3.8	1.8	3.0	6	3.4	3		
9 A03921-2	5.0	4.0	4.0	3.0	3.0	4.7	3.5	3.9	4	3.9	4	3.7	2.6	5.0	2.8	3.3	3.5	2.0	3.4	3.2	3.4	1.5	3.4	3	2.9	7		
10 A06021-1T	4.0	3.5	3.5	4.0	3.0	4.2	2.1	4.1	2	3.2	9	3.0	4.0	3.0	3.6	4.0	3.0	4.0	3.3	3.7	4.9	3.2	3.7	1	3.6	1		
11 A06084-1TE	3.0	3.0	3.5	4.0	1.0	2.2	3.3	3.1	13	2.8	11	3.6	3.6	1.0	3.8	2.9	3.0	2.0	3.4	3.3	1.4	0.7	2.8	9	2.3	13		
12 AO01114-4	1.0	2.5	4.0	4.0	3.0	4.9	3.6	4.5	1	2.8	11	3.5	3.5	1.0	3.3	2.4	3.0	3.0	2.8	3.6	4.9	0.7	3.5	2	2.3	13		
13 AO02060-3	3.0	2.5	4.5	4.0	2.0	2.7	3.0	3.4	10	3.0	10	3.2	3.1	1.0	2.3	3.4	3.0	3.0	3.7	2.8	1.4	2.5	2.7	11	2.5	10		
14 CO03276-5RU	1.0	2.0	4.0	3.0	2.0	4.0	.	3.5	8	2.3	15	.	3.3	1.0	2.0	3.6	3.0	3.0	2.0	3.2	3.9	2.3	3.0	6	2.5	10		
15 CO05068-1RU	5.0	3.0	4.0	4.0	2.0	3.5	3.9	3.8	5	3.6	6	3.9	3.4	5.0	2.3	3.1	3.0	2.0	2.9	3.6	1.1	1.9	2.6	12	2.9	7		
16 CO05175-1RU	5.0	4.0	4.0	4.0	3.0	4.1	2.8	4.1	2	3.8	5	3.1	3.4	5.0	2.9	3.4	3.0	2.0	2.8	2.7	2.8	3.7	2.8	9	3.4	3		
17 OR05039-4	4.0	4.5	5.0	4.0	3.0	3.1	3.5	3.5	8	4.0	2	3.6	2.0	3.0	2.9	3.4	3.0	2.0	2.4	3.5	1.8	2.0	2.6	12	2.5	10		
18 POR06V12-3	5.0	4.0	4.5	4.0	3.0	2.7	3.5	3.4	10	4.0	2	3.5	3.9	3.0	3.8	3.5	4.0	3.0	3.7	3.2	2.8	4.0	3.4	3	3.5	2		
Location Means	3.3	3.3	4.0	3.3	2.3	3.3	3.1	3.3		3.2		3.3	3.2	2.9	3.0	3.3	2.9	2.4	2.8	3.1	2.5	2.1	2.8		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: 2014 Western Regional Potato Variety Trial - ENTRY SUMMARY¹

No Clone	Year		US Total Yield ²	US #1's Yield ²	% US #1's ²	Tuber		Specific Gravity ²	Fry45 Color	Combine(E&L)		Observations	Disposition 2015
	In Use Trial					Size (oz)	Early Late			Merit Score ³	Process Fresh		
1 RANGER R.	-	Dual	531	427	80	7.2	8.4	1.085	1.8	2.6	2.6		Check
2 R. BURBANK	-	Dual	538	373	68	6.4	7.3	1.078	2.4	2.4	1.9		Check
3 R. NORKOTAH	-	Fresh	418	363	86	6.1	7.1	1.072	2.3	2.0	3.1		Check
4 SHEPODY	-	Proc	498	421	85	8.6	8.6	1.074	.	.	2.3		Check
5 A02062-1TE	2	Dual	445	384	87	7.9	7.9	1.069	.	.	3.2	Low SG (E); Res. To Soft Rot; Susc. To Fus(sam)	Grad - Pomerelle R.
6 A02424-83LB	2	Dual	535	427	80	5.7	6.9	1.091	0.6	3.3	2.1	Low Ov. Size and % (E&L) and smaller tuber size (E); Susc. To shatter (L), C. Scab, tub. EB; IBS (L); C.Sweet Res; Res To VW/ED & EB; H. prot & Vit. C	Drop
7 A02507-2LB	3	Dual	515	443	86	6.3	7.9	1.093	0.6	4.2	2.9	Low total & US #1 yield (E); High SG (L); Susc to Shatter (L), NN/VD, Fus(sam); IBS (L); C.Sweet Res; Res.To VW/ED, EB, F(sol), CRS, S. Rot; H. protein; Higher glyco;	Grad - Payette Russet
8 A03158-2TE	3	Dual	580	500	86	7.4	8.8	1.079	1.3	3.5	3.2	High total and US #1 yield (E & L); High ov. size, %, & large tuber (E&L); HH (E&L) Resistance To Fus(sol) and CRS; Susc. To Fus(sam), NN/VD (defect)	Grad - Mountain Gem R.
9 A03921-2	1	Dual	589	499	84	7.9	9.0	1.099	1.0	3.9	3.1	High total & US #1 yield (L); High ov. size, %, and large tuber (E&L); High SG (E&L); IBS (E&L); C. Sweet Res; Susc. To Soft Rot and NN/VD; H. Vit. C;	Return
10 A06021-1T	1	Dual	476	424	89	7.3	7.4	1.083	1.7	3.2	3.7	High % US #1 (E & L); High SG (E); low S. Ends; Resistance to Fus(sol);Susc to Tuber EB and CRS	Return
11 A06084-1TE	1	Dual	438	341	77	6.0	6.3	1.078	0.1	2.8	2.5	Low total yield (L) & % US (E&L); C. Sweet Res; High Protein; Susc. to Fus(sam), Tuber EB and NN/VD (defect)	Return
12 AO01114-4	2	Dual	449	362	81	7.1	7.4	1.088	1.7	2.8	2.9	GC and Shatter (L); Resistance to Fus(sam & sol);	Return - Early
13 AO02060-3	3	Dual	425	356	81	6.8	6.8	1.083	0.7	3.0	2.6	Low total yield (L); NN/VD (E); Low S. Ends; Susc.to EB (Fol. & Tuber) and Fus(sam)	Graduate
14 CO03276-5RU	3	Fresh	588	480	81	6.0	6.0	1.072	2.3	.	2.8	High total & US#1 yield (E); Susc. To EB and Metribuzin; Resistance to Fus(sam); Susc. To Fus(sol);	Graduate
15 CO05068-1RU	1	Dual	580	510	87	5.9	7.8	1.097	0.7	3.6	2.8	Hight total yield & US#1 (L); High SG (E&L); HH (E&L); IBS (L); Res. To EB (Foliage and Tuber), and Soft Rot; Susc. To Metribuzin; Low Protein;	Return
16 CO05175-1RU	1	Dual	543	452	83	7.6	8.8	1.082	1.2	3.8	3.1	HH (E&L); Higher S. Ends; Susceptible to CRS.	Return
17 OR05039-4	2	Proc	494	430	87	7.2	8.3	1.085	0.2	4.0	2.6	Cold sweetening res; Res. to foliar EB and CRS; Susc. To C. Scab and tuber EB; High Protein; Low Vit. C; Higher glyco;	Return
18 POR06V12-3	2	Dual	522	435	82	5.8	7.1	1.092	0.4	4.0	3.5	Low total & US#1 yield (E); HH (E&L); C. Sweet. Res.; Higher S. Ends; Res. To Soft Rot, tuber EB, CRS, and Fus(sol& sam); Higher glyco;	Return
Entry Means			509	424	83	6.8	7.7	1.083	1.2	3.3	2.8		

¹ Numeric values represent means across all trial locations.

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

³ Data shown from combined early & late trial results.

TABLE 16: 2014 Western Regional Potato Variety Trial - 3 YEAR SUMMARY OF GRADUATING ENTRIES - ¹LATE TRIAL LOCATION MEANS

Clone	2012						2013						2014					
	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
	A02507-2LB	647 (5/14)	554 85	1.092	0.4	2.9	3.6	519 (5/13)	446 84	1.088	0.6	2.8	3.2	515 (10/16)	443 86	1.093	0.6	2.9	4.2
A03158-2TE	742 (2/14)	624 84	1.082	1.2	2.8	3.8	594 (1/13)	493 83	1.080	1.6	3.0	3.3	580 (2/16)	500 86	1.079	1.7	3.2	3.5
AO02060-3	526 (13/14)	428 81	1.086	0.8	3.0	3.2	444 (10/13)	344 76	1.083	1.5	3.0	3.1	425 (15/16)	356 81	1.083	0.7	2.6	3.0
¹ CO03276-5RU	442 (4/17)	364 73	1.076	.	2.8	2.4	440 (4/15)	308 70	1.071	.	2.5	2.8	588 (1/18)	480 81	1.072	2.3	2.8	.
RANGER R.	640 (6/14)	499 77	1.089	1.3	2.3	3.5	572 (2/13)	437 77	1.084	1.5	2.4	3.3	531 (7/16)	427 80	1.085	1.8	2.6	2.6
R. NORKOTAH	471 (14/14)	364 76	1.072	1.6	3.1	2.6	400 (11/13)	320 77	1.070	1.6	3.1	2.7	418 (16/16)	363 86	1.072	2.3	3.1	2.0
R. BURBANK	624 (7/14)	393 61	1.082	1.7	1.7	2.8	487 (9/13)	337 69	1.076	1.7	2.2	2.5	538 (5/16)	373 68	1.078	2.4	1.9	2.4
Trial Mean	614	489 79	1.085	1.1	2.7	3.2	476	378 78	1.081	1.3	2.8	3.0	509	424 83	1.083	1.2	3.3	2.8

¹CO03276-5RU was an early trial only entry 2/3 years; yield and SG data shown for all three years from early trial.

3 Year Average (2010-2012)

Clone	Total Yield ¹ &(rank) ²	US #1 Yld ¹ %	SG	FRY 45	Merit Score Fresh	Proc	Noted Weaknesses		Noted Strengths	
							A02507-2LB	560 (54)	481 85	1.091	0.5	2.9	3.6	Shatter bruise-late (3/3); IBS-Hermiston (3/3); Susc. To Fus(sam) (2/3)	Res. To VW/ED & EB (3/3), Corky Ringspot (2/2) and LB (1/1); Cold-sweetening resistant (3/3);
A03158-2TE	639 (89)	539 84	1.080	1.5	3.0	3.5	High ov. size yield, %, & large tuber (E&L: 3/3); HH (E: 2/3);Susc.to Fus (sam) (3/3); Lower SG (L: 3/3)	High total and US #1 yield (E & L: 3/3);		
AO02060-3	465 (12)	376 79	1.084	1.0	2.9	3.1	Low total and US#1 yield (L:3/3); Susc.to Fus (sam) (3/3)			
¹ CO03276-5RU	490 (81)	384 75	1.073	2.3	2.7	2.6	Susceptible to EB (2/3),VW/ED (2/3), and F(sol) 2/3;	High total yield (E: 3/3);		
RANGER R.	581 (66)	454 78	1.086	1.6	2.5	3.1		¹ (CWT/A)		
R. NORKOTAH	429 (05)	349 80	1.071	1.9	3.1	2.4		² Percent of entries with lower yields; e.g. 54% of all late trial entries over three years yielded lower than A02507-2LB.		
R. BURBANK	550 (.50)	368 66	1.079	2.0	1.9	2.6				
Trial Mean³	533	430 80	1.083	1.2	2.9	3.0		³ Late Trial means of all trial entries 2012-2014		

TABLE 17: 2014 Western Regional Potato Variety Trial - ENTRY COMMENTS - EARLY AND LATE HARVEST

No. Clone	Entry Comments - Early Harvest				Entry Comments - Late Harvest						
	ID PAR	TX		WA OTH	CA TUL	CO SLV	AB	ID KIM	PAR	OR HRM	WA OTH
		DAL	SPR								
1 Ranger Russet	Sprouts	light skin, skinny, rough, poor shape	nice shape, smooth, long, deep eyes, drop, skinny, rough	Good size, somewhat typy, Rhizoctonia	curved shape, deep eyes(3.0), very long (2.4 L/W), high yield (446 CWT)		long curved, folds	Medium Russet, long, crooked	Typical Ranger	Curvy x4, long, irr x4,	Large, some irregular shapes, mostly typy
2 Russet Burbank	Knobby, low yield	rough, skinny, ugly	many culls, curved, rough	Many irregular shapes, knobs, some rot	long (2.1 L/W), pointy, irregular russetting		jelly ends	MHR, Knobs, GC, long, bumps	dumbbell shape, typical burbank	GC x2, irr x3, pear x3	Large, rough, irregular shapes: some typy
3 Russet Norkotah		rough, pointed, small	very nice, BOT-, small, nice shape, smooth	Small, mostly typy, ends a bit pointed, Rhizoctonia	curved, some pointy, heavy russetting (4.1), nice fresh	Pink inside	few but ok	HR, good shape, few	nice looking, dark russet	Typy x4, greening x1, rot x1	Non-uniform russetting, good length, mostly typy
4 Shepody	Pointy, light skin,	rough, pear shaped	white skin, poor net	Large, white, ugly; prescab							
5 A02062-1TE	Sprouts	skinny, pointed	very nice, early, BOT-, heat sprouts, thin, nice shape, long, smooth+	Long, skinny, good skin, typy							
6 A02424-83LB	Light skin	light skin, pointed	blocky, light skin, poor shape, drop++	Light/white skin, variable size and shape, powdery scab	blocky, higher shatter (3.0), some tubers irregular		long, misshaped, green	Medium Light russet, brow, shatter, some points	dry rot	Necrotic Virus, rhizoc x1, SB x2, bad Severe	Light skin, irregular shape, short and plump, scab
7 A02507-2LB		nice shape, nice skin, oversized	drop++, blocky to round,	Small, short, roundish, spotty russetting	pink eye, flat, highest skinning (2.8), low internal defects, irregular shape	Dry rot	shattered, rot, lumps	Medium russet, blocky, some shatter	roundish, low yield	netty russet, irr x2, SB x4, rot x1, round	Short, plump, round
8 A03158-2TE		deep eyes, curved, pointed, ugly	nice shape, yield, skinny	Mostly typy, a few irregular shapes, good skin	semi-flat, some good shape & color, deep eyes (2.9), High tuber set (99%)		small, GC in ends	Medium heavy russet, growth cracks, folded ends, big	looks like Ranger, blocky	spr x2, folded x1, rot x1,	Deep eyes, bumpy, variable shape, some round
9 A03921-2		light net, nice shape	light skin, drop, poor yield, large	Good length, bad skin, spotty russetting.	high skinning (2.9), high specific gravity, 8.2% green tubers, 15% hard-bite, low fresh merit	Dry rot	misshaped, big	MR, green, misshapen	blocky, some pointing, smooth, nice	Greening x3, knobs x2, SB x2, irr x2	Large, oval, flat, light skin, Rhizoctonia
10 A06021-1T		pointed	nice, nice shape, smooth	Good length, typy - Best of Trial	blocky, high fresh merit, good skin set		small but uniform	HR, few, small, nice shape	blocky, oblong, uniform, smooth	Typy x4, lenticels x1, nice x4, Fresh market?	Typy, plump, spotty russetting
11 A06084-1TE		some pointed	nice shape, rough, drop, low yield	Mostly typy, spotty russetting, Rhizoctonia	pointy, 3.6% knobs, blocky russet on some	Deep eyes, pink inside	small, but nice size and shape	MHR, brow, points, small	deep eyes, blocky, good length	Typy x1, uneven russetting x3, sticky x1, spr x1	Many small, some round, rot on ends
12 AO01114-4		small, curved, pointed, deep eyes	blocky, drop++, small, some rough	Nice shape, length, size - Rhizoctonia	curved, high hollow heart (22.5%), Highest shatter (2.5)		shattered, rot, lumps, GC	green, ugly, skin checking, deep ends, GC, shatter	dark russet	Typy x3, lenticels x2, Fresh market?	Mostly typy, wide netting, cracks
13 AO02060-3		BOT-, very nice shape	pointed, drop++	Bad skin, spotty russetting, plump, typy	flat, 3.1% growth cracks,	Variable net	few, small	medium russet, green, shatter, lumpy	big, good length, blocky, nice	typy x2, blocky, deep eyes x1, rhizoc x1, rot x1	Skin inconsistent, length okay, mostly typy
14 CO03276-5RU	Smooth	small, skinny, pointed	pointed, drop, curved	Typy, some curves, good skin, looks like R. Norkotah	flat, high tuber set (98%), low cull (3.9%), low internal defects, small avg. tuber size (5.33 oz) good shape, weak color/russet (2.6), 15% IBS, high hollow heart (20%)		small	MHR, small, good shape, some flat	very smooth, little pointy	Typy x3, alligator x1, pear z1, spr x1	Dark russetting, a bit flat, mostly typy, Rhizoctonia
15 CO05068-1RU		rough, ugly, pointed, blocky	nice shape, smooth, heat sprouts, drop++,	Small, short, severe Rhizoctonia			rot, lumps, misshaped	MR, flat, some misshapen	nonuniform, bumpy	flaky russet x 3, irr x3, deep eyes x4, spr x2	Oval to round, short, somewhat flat
16 CO05175-1RU		curved, pointed, too long	poor shape, drop+++	Flat, inconsistent skin set	pointy, very high hollow heart (32.5%)		too long, crooks	MHR, big,	smooth, pointed ends, dumbbell shape, long	Tip rot x1, very long x3, curvy	Flat, oval, broad, odd shapes
17 OR05039-4		pear shaped, light net, pointed	light russet, nice shape, light skin, drop++, poor skin finish	White/buff skin, good length, irregular shapes	long shape (4.0), low fresh merit score, high growth crack percent (2.48%)	Light russet	poor skin, ATS, crooks	light russet, some splot end/GC bumps	good length, nice, skinning	blocky x2, rhizoc x1, FBE, scab x1	Plump, length okay, light skin
18 POR06V12-3		hollow heart++, blocky, light set, nice shape	stem attachment, drop, small, blocky	Nice skin, typy, flat, smaller	curved, spotty russet, good fresh merit, 3.2% knobs		MHR, blocky, few points	Medium heavy russet, lumps, deep ends	low yield, small size	Heavy russet, typy x2, alligator x1, sticky x2	Smooth, dark skin, mostly typy, Rhizoctonia