

2020 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS Cooperating

California

Colorado

Idaho

Oregon

Texas

Washington



2020 WESTERN REGIONAL POTATO VARIETY TRIAL REPORT

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Western Regional Potato Variety Trial Reports (1998-2020) can be accessed at the following website.

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

Compiled by Brian Schneider

TABLE 1: 2020 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.	17-80-260, 180# UN32 Seed Spacing: In-Row 10" Rows 36"	15-May	30-Sep	111	138	Prowl H20 Outlook Matrix	Admire Pro	Quadris Luna Tranquility
2	San Luis Valley Colorado (SLV)	D. Holm, C. Gray K. Gaudreau E. Neibaum	Late Pivot	106-76-180-11 Seed Spacing: In-Row 12" Rows 34"	12-May	25-Sep	114	136	Rifle-D Metribuzin 75 Eptam 7-E	Pure Spray Green Sefina Inscalis Movento HL Leverage 360	Revus Top Quadris Top Bravo Weather Stik
3	Aberdeen Idaho (AB)	R. Spear R. Novy J. Whitworth C. Lowder	Late Sprink.	310-100-0-0+5Zn-5Mn Seed Spacing: In-Row 10" Rows 36"	28-Apr	23-Sep	126	148	TriCor 4F Matrix Eptam 7-E	Admire Pro	
4	Kimberly Idaho (KIM)	R. Spear R. Novy J. Whitworth C. Lowder	Late Sprink.	475-300-125-45 Seed Spacing: In-Row 10" Rows 36"	23-Apr	5-Oct	138	165	Dimetric Outlook, Eptam Class Act		Luna Tranquility Zing, Fulfill
5	Parma Idaho (PAR)	M. Thornton O. Morgan R. Portenier K. Beck	Early Sprink. Late Sprink.	217-211-200 (20Mg, 11Mn, 4B) 407-111-200 (20Mg, 11Mn, 4B) Seed Spacing: In-Row 10" Rows 36"	10-Apr 20-Apr	12-Aug 21-Sep	98 141	124 154	Sonalan Boundry Eptam+Absorb Reglone		Bravo, Endura Luna T Revus Top Quadris Top
6	Hermiston Oregon (HRM)	S. Sathuvalli M. Aguila	Early Pivot Late Pivot	345-130-200-80-5Mn-3.75Zn-2B-10Cl 375-140-200-80-5Mn-3.75Zn-2B-10Cl Seed Spacing: E & L In-Row 9.25" Rows 34"	23-Mar 20-Apr	10-Aug 24-Sep	131 133	140 157	Dual Magnum Eptam Matrix	Admire Coragen Asana XL	Quadris, Ridomil Omega, Dithane Bravo
7	Dalhart (DAL) Springlake (SPR) Texas	I. Vales J. Koym D. Schuering	Early Pivot Early	119-122-258 89-29-29 Seed Spacing: DAL / SPR In-Row 10.2" / 9.0" Rows 28" / 36"	9-May 26-Mar	3-Sep 12-Jul	100 102	117 108	Eptam 7E, Tricor 4F Mad Dog K6 Trifluralin 4 EC Reglone Boundary 6.5 EC Gly Star 5 Extra Makaze Medal EC Stealth	Movento, Fulfill Beleaf 50 SG Reaper ClearForm Minecto Pro Sivanto, SPE 120 Rimon 0.83EC Velum Prime	Manzate Max Echo 720 Scala, NUCOP Miravis Prime Headline
8	Othello (OTH) Othello (OTH) Washington	M. Pavek R. Knowles	Early Linear Late Pivot	200-200-250-40+2B 380-300-400-40+2B Seed Spacing: E & L In-Row 12" / 11" Rows 32" / 32"	5-Apr 2-Apr	31-Jul 15-Sep	106 113	117 166	Outlook Prowl H20 Eptam	Platinum	Priaxor Chloronil Bravo, Zing

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

TABLE 2: 2020 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 Entered			Year in Seed			Stand ²	Tuber and Vine Descriptions from Trial Observations ²									
			Color ¹	by Use	Trial	Trial	Source	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	Dual	97	Long	4.2	Med Russet	3.3	Med-Large	3.4	Med-Late	3.7	2.1
2	Russet Burbank	Early Rose ?	W	Ck	Dual	E/L	-	OR	Dual	98	Obl-Lng	4.0	Med Russet	3.2	Med-Large	3.5	Medium	3.1	2.2
3	Russet Norkotah	ND9687-5Rus ND9526-4Rus	W	Ck	Fresh	E/L	-	OR	Fresh	97	Long	4.1	Med Hvy Rus	4.3	Medium	2.8	Early	2.0	2.3
4	Clearwater Russet	Bannock Russet A89152-4	P	Ck	Dual	E/L	-	OWN	Dual	96	Obl-Lng	3.7	Med Russet	3.7	Med-Large	3.4	Med-Late	3.9	2.4
5	Shepody	Bake-King F58050	W	Ck	Proc	E	-	OR	Proc	97	Obl-Lng	3.6	White	1.3	Med-Large	3.5	Medium	3.3	1.7
6	A071012-4BF	A85331-7 A01054-4	W	ID	Dual	E/L	3	OR	Dual	97	Oblong	3.3	Light Russet	2.9	Med-Large	3.7	Med-Late	3.8	2.2
7	A07769-4	PA01N32-1 Premier Russet	RP	ID	Dual	E/L	3	OR	Dual	92	Oblong	3.1	Light Russet	2.4	Med-Large	3.4	Medium	3.3	2.6
8	A10021-5TE	A03921-2 Mountain Gem Rus	W	ID	Dual	E/L	3	OR	Dual	92	Long	4.1	Light Russet	3.0	Med-Large	3.5	Medium	3.5	2.4
9	AOR08540-1	A02782-2 PA01N22-5	W	OR	Dual	E/L	1	OR	Dual	96	Long	4.1	Med Russet	3.7	Med-Large	3.9	Med-Late	4.0	2.3
10	AOR10204-3	COA05110-3 A05066-9	P	OR	Fresh	E/L	1	OR	Fresh	91	Obl-Lng	4.0	Med Russet	3.8	Med-Large	3.4	Medium	3.3	2.5
11	CO10085-1RU	CO03364-5RU Silverton Russet	P	CO	Proc	E/L	1	CO	Proc	98	Oblong	3.5	Med Russet	3.6	Med-Large	3.5	Med-Late	3.7	2.6
12	CO10087-4RU	CO03367-1RU Mercury Russet	W	CO	Dual	E/L	2	CO	Dual	90	Obl-Lng	3.6	Med Russet	3.4	Medium	3.0	Early	2.4	3.0
13	CO10091-1RUsto	CO03371-4RU CO98067-7RU	W	CO	Dual	E/L	2	CO	Dual	95	Oblong	2.7	Med Russet	3.9	Med-Large	3.5	Medium	3.1	2.2
14	CO11009-3RU	Fortress Russet AC96052-1RU	P	OR	Proc	E/L	1	CO	Proc	97	Obl-Lng	4.0	Med Hvy Rus	4.1	Med-Large	3.8	Med-Late	3.8	2.4
15	OR12133-10	A98345-10 Silverton Russet	W	OR	Dual	E/L	2	OR	Dual	97	Oblong	3.5	White	2.0	Large	4.1	Med-Late	4.0	2.0
16	POR12NCK50-1	PA99N82-4 Western Russet	P	OR	Dual	E/L	2	OR	Dual	97	Obl-Lng	4.0	Med Russet	4.0	Med-Large	3.6	Medium	3.3	1.9
17	TX13590-9Ru	ND9687-3Ru ND9852-1Ru	RP	TX	Fresh	E/L	1	TX	Fresh	96	Oblong	2.8	Med Russet	3.4	Med-Large	3.6	Medium	3.4	3.0

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: 2020 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	SPR	OTH	Mean/Rank	TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank
1 RANGER R.	368	608	316	186	567	409 8 bcde	441	.	544	599	575	570	911	606 8 bc
2 R. BURBANK	358	539	357	217	667	427 6 abcde	436	365	425	745	526	480	1052	576 11 bcd
3 R. NORKOTAH	329	503	341	222	500	379 13 de	389	218	463	636	500	442	661	473 14 de
4 CLEARWATER R.	324	382	313	162	684	373 14 e	425	320	591	665	552	720	979	608 7 bc
5 SHEPODY	302	493	301	232	621	390 11 cde	.	305	.	.	.	.	.	.
6 A071012-4BF	391	556	414	207	653	444 5 abcd	570	392	590	773	578	561	998	637 5 abc
7 A07769-4	354	520	184	149	647	371 15 e	403	360	471	582	589	640	1111	594 9 bcd
8 A10021-5TE	336	517	288	141	695	395 10 cde	467	309	475	686	552	647	909	578 10 bcd
9 AOR08540-1	394	586	352	261	754	469 2 ab	477	354	540	816	681	795	880	649 3 ab
10 AOR10204-3	469	589	354	200	680	458 3 abc	492	391	601	704	669	1383	941	740 1 a
11 CO10085-1RU	288	562	402	205	532	398 9 cde	396	301	299	603	450	770	940	537 13 cd
12 CO10087-4RU	342	371	421	201	563	380 12 de	333	222	323	484	450	389	682	412 16 e
13 CO10091-1RUsto	.	445	254	86	535	330 17 f	397	137	.	457	402	501	877	462 15 de
14 CO11009-3RU	282	514	301	232	516	369 16 e	448	374	490	712	544	766	948	612 6 bc
15 OR12133-10	416	621	403	168	666	455 4 abc	538	397	651	792	690	917	1174	737 2 a
16 POR12NCK50-1	354	458	439	192	685	426 7 bcde	427	342	436	717	439	599	916	554 12 bcd
17 TX13590-9Ru	389	638	417	332	711	497 1 a	486	369	623	690	630	681	1060	648 4 ab
Location Means	356	524	345	199	628	410	445	323	501	666	552	679	940	589

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: 2020 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.	294	513	192	73	480	310	8	bcdef	286	.	410	420	517	438	721	465	10	cd
	80	84	61	39	85	70	11		65	.	75	70	90	77	79	76	13	
2 R. BURBANK	261	396	176	65	499	279	14	def	275	275	271	471	363	294	831	397	13	ef
	73	73	49	30	75	60	14		63	75	63	63	69	61	79	68	16	
3 R. NORKOTAH	249	435	211	129	467	298	10	cdef	311	136	370	511	451	345	575	386	14	ef
	76	86	62	58	93	75	3		80	62	79	81	90	78	87	80	7	
4 CLEARWATER R.	223	289	138	24	634	262	15	ef	331	245	513	565	478	542	912	512	5	bcd
	69	76	44	15	93	59	15		78	76	87	85	87	75	93	83	4	
5 SHEPODY	264	383	126	111	574	292	11	def	.	152	.	.	.	.	.	.	.	.
	87	78	42	48	92	69	13		.	50	.	.	.	.	.	.	.	.
6 A071012-4BF	315	450	226	129	611	346	5	abcd	252	323	488	601	477	449	747	477	9	bcd
	81	81	55	62	93	74	5		44	82	82	78	82	80	75	75	14	
7 A07769-4	302	426	124	76	625	311	7	bcdef	248	307	413	453	535	573	907	491	6	bcd
	85	82	67	51	97	77	2		61	85	87	78	91	90	82	82	5	
8 A10021-5TE	293	428	155	73	577	305	9	bcdef	324	250	403	489	468	550	706	456	11	cde
	87	83	54	52	83	72	9		69	81	85	71	85	85	78	79	10	
9 AOR08540-1	349	473	195	131	701	370	2	ab	364	265	390	556	621	673	763	519	3	bc
	89	81	55	50	93	74	5		76	75	72	69	91	85	87	79	10	
10 AOR10204-3	398	487	233	107	596	364	3	abc	339	320	496	512	591	451	659	481	7	bcd
	85	83	66	53	88	75	3		69	82	82	72	88	33	70	71	15	
11 CO10085-1RU	178	420	121	47	469	247	16	f	304	230	223	481	391	589	858	439	12	de
	62	75	30	23	88	56	16		77	77	75	80	87	77	91	80	7	
12 CO10087-4RU	271	218	274	128	538	286	12	def	246	167	238	366	412	296	630	336	16	f
	79	59	65	64	95	72	9		74	75	74	75	91	76	92	80	7	
13 CO10091-1RUsto	.	199	58	14	504	194	17	g	293	102	.	354	331	307	846	372	15	ef
	.	45	23	16	94	44	17		74	75	.	77	82	61	97	78	12	
14 CO11009-3RU	205	413	180	132	500	286	12	def	325	318	398	593	507	672	816	519	3	bc
	73	80	60	57	97	73	7		72	85	80	83	93	88	86	84	3	
15 OR12133-10	363	528	215	74	639	364	3	abc	421	336	566	691	658	827	1084	655	1	a
	87	85	53	44	96	73	7		78	85	87	87	95	90	92	88	1	
16 POR12NCK50-1	298	355	258	65	662	328	6	bcde	330	293	374	599	399	492	875	480	8	bcd
	84	77	59	34	97	70	11		77	86	85	84	91	82	96	86	2	
17 TX13590-9Ru	331	522	269	226	676	405	1	a	357	271	495	575	567	565	914	535	2	b
	85	82	65	68	95	79	1		73	73	79	83	90	83	86	81	6	
Location Means	287	408	185	94	574	309			313	256	403	515	485	504	803	470		
	80	77	53	45	91	69			71	78	79	77	88	76	86	79		

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

TABLE 5: 2020 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	SPR	OTH	Mean/Rank		TUL	SLV	AB	KIM	PAR	HRM	OTH	Mean/Rank			
1 RANGER R.	30	232	55	0	170	97	6	bcd	166	.	248	296	287	205	504	284	5	bc
	8	38	17	0	30	19	6		38	.	45	49	50	36	55	45	5	
2 R. BURBANK	54	119	34	0	190	79	8	cde	59	66	54	210	214	150	449	172	13	efg
	15	22	9	0	29	15	8		14	18	12	28	41	31	43	27	13	
3 R. NORKOTAH	30	69	96	18	109	64	13	cde	109	12	91	297	247	58	265	154	15	fg
	9	14	28	8	22	16	7		28	5	19	47	49	13	40	29	12	
4 CLEARWATER R.	14	41	10	0	143	42	15	e	56	59	179	262	166	88	459	181	11	def
	4	11	3	0	21	8	15		13	18	29	39	30	12	47	27	13	
5 SHEPODY	60	268	49	18	375	154	1	a	.	22	.	.	.	.	.	.	.
	20	54	16	8	60	32	1		.	7	.	.	.	.	.	.	.
6 A071012-4BF	31	246	113	42	269	140	2	ab	268	186	183	419	376	319	592	335	3	ab
	8	44	27	20	41	28	2		47	47	30	54	65	57	59	51	1	
7 A07769-4	53	103	20	0	162	68	10	cde	179	119	120	254	347	295	702	288	4	bc
	15	20	11	0	25	14	11		44	33	25	44	59	46	63	45	5	
8 A10021-5TE	44	167	60	9	240	104	5	abcd	169	0	209	386	308	235	520	261	8	bcd
	13	32	21	6	35	21	4		36	35	43	56	56	36	57	46	4	
9 AOR08540-1	21	129	38	9	239	87	7	bcde	157	134	251	395	477	407	545	338	2	ab
	5	22	11	4	32	15	8		33	38	46	49	70	51	62	50	3	
10 AOR10204-3	50	186	86	22	184	105	4	abcd	206	109	256	329	374	202	458	276	6	bc
	11	31	24	11	27	21	4		42	28	43	47	56	15	49	40	9	
11 CO10085-1RU	15	71	5	0	94	37	16	e	72	56	82	228	210	230	367	178	12	efg
	5	13	1	0	18	7	16		18	19	28	38	47	30	39	31	11	
12 CO10087-4RU	20	2	148	23	139	66	11	cde	95	9	28	136	209	37	157	96	16	g
	6	0	35	11	25	15	8		28	4	9	28	46	10	23	21	15	
13 CO10091-1RUsto	.	3	0	0	43	11	17	f	28	20	.	347	331	28	531	214	10	de
	.	1	0	0	8	2	17		7	15	.	19	29	6	24	17	16	
14 CO11009-3RU	12	117	28	5	106	54	14	de	154	104	177	89	115	348	214	172	13	efg
	4	23	9	2	21	12	13		34	28	34	49	61	45	56	44	7	
15 OR12133-10	31	121	69	0	165	77	9	cde	191	97	329	497	460	472	744	399	1	ab
	7	20	17	0	25	14	11		35	24	50	63	67	51	63	51	1	
16 POR12NCK50-1	33	54	52	5	181	65	12	cde	160	64	207	392	203	174	497	242	9	cde
	9	12	12	3	26	12	13		38	19	46	55	46	29	54	41	8	
17 TX13590-9Ru	40	110	126	74	231	116	3	abc	92	64	137	360	337	244	642	268	7	bc
	10	17	30	22	33	22	3		19	17	21	52	54	36	61	37	10	
Location Means	34	120	58	13	179	80			135	73	170	306	292	218	478	241		
	9	22	16	6	28	16			30	23	32	45	52	32	50	38		

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

TABLE 6: 2020 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.	63	40	107	92	33	67	11	defg	27	.	19	23	35	41	24	28	16	f
	17	7	34	50	6	23	9		6	.	4	4	6	7	3	5	12	
2 R. BURBANK	54	61	86	66	39	61	14	defg	45	61	93	71	26	35	58	56	5	bcd
	15	11	24	31	6	17	15		10	17	23	10	5	7	5	11	6	
3 R. NORKOTAH	70	61	109	82	61	77	10	cdef	35	80	67	43	32	78	27	52	7	bcde
	21	12	32	37	12	23	9		9	37	15	7	6	18	4	14	3	
4 CLEARWATER R.	93	91	164	129	68	109	3	b	68	57	48	52	68	143	52	70	2	b
	29	24	52	80	10	39	3		16	18	8	8	12	20	5	12	5	
5 SHEPODY	23	33	114	73	35	56	15	efg	.	84	.	.	.	.	.	.	.
	8	7	38	31	6	18	12		.	28	.	.	.	.	.	.	.
6 A071012-4BF	69	37	53	61	36	51	16	fg	36	21	47	38	21	30	17	30	14	f
	18	7	13	30	6	14	17		6	5	8	5	4	5	2	5	12	
7 A07769-4	48	80	57	71	71	66	12	defg	22	34	38	40	38	49	27	35	10	ef
	14	15	31	48	11	24	8		6	9	8	7	6	8	2	7	9	
8 A10021-5TE	31	43	51	46	43	43	17	g	42	39	31	24	34	50	23	35	10	ef
	9	8	18	33	6	15	16		9	13	7	3	6	8	3	7	9	
9 AOR08540-1	43	73	138	111	67	86	7	bcd	35	37	26	31	28	38	26	31	12	f
	11	12	39	43	9	23	9		7	10	5	4	4	5	3	5	12	
10 AOR10204-3	40	46	97	74	64	64	13	defg	20	32	25	33	18	58	18	29	15	f
	8	8	27	37	9	18	12		4	8	4	5	3	4	2	4	16	
11 CO10085-1RU	109	125	246	135	109	145	2	a	69	61	40	69	54	104	93	70	2	b
	38	22	61	66	21	42	2		17	20	13	11	12	14	10	14	3	
12 CO10087-4RU	67	149	69	70	69	85	8	bcde	46	53	74	66	24	79	91	62	4	bc
	20	40	16	35	12	25	6		14	24	23	14	5	20	13	16	2	
13 CO10091-1RUsto	.	241	194	69	141	161	1	a	95	33	.	92	68	188	136	102	1	a
	.	54	76	81	26	59	1		24	24	.	21	17	38	15	23	1	
14 CO11009-3RU	71	71	99	96	101	88	5	bcd	44	41	51	41	25	40	31	39	9	def
	25	14	33	41	20	27	5		10	11	11	6	5	5	3	7	9	
15 OR12133-10	52	79	158	88	65	88	5	bcd	25	42	27	27	17	50	30	31	12	f
	12	13	39	52	10	25	6		5	10	4	3	2	5	3	5	12	
16 POR12NCK50-1	52	94	173	121	69	102	4	bc	28	48	39	28	24	90	46	43	8	cdef
	15	21	40	63	10	30	4		7	14	9	4	5	15	5	8	8	
17 TX13590-9Ru	48	87	106	103	53	79	9	cdef	74	56	79	38	38	76	33	56	5	bcd
	12	14	25	31	7	18	12		15	15	13	6	6	11	3	10	7	
Location Means	58	83	119	88	66	84			44	46	47	45	34	72	46	48		
	17	17	35	46	11	26			10	16	10	7	7	12	5	10		

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

TABLE 7: 2020 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	1.083	1.078	1.066	1.078	1.078	4	cde	1.086	.	1.091	1.091	1.087	1.073	1.078	1.084	9	cd
2 R. BURBANK	1.076	1.079	1.058	1.068	1.080	1.073	13	fgh	1.084	1.083	1.077	1.083	1.079	1.068	1.076	1.078	15	e
3 R. NORKOTAH	1.074	1.076	1.060	1.069	1.075	1.071	15	gh	1.073	1.071	1.078	1.074	1.076	1.066	1.066	1.072	16	f
4 CLEARWATER R.	1.078	1.089	1.070	1.068	1.081	1.077	6	cde	1.095	1.096	1.092	1.086	1.090	1.093	1.079	1.090	3	ab
5 SHEPODY	1.074	1.083	1.068	1.068	1.078	1.074	12	efg	.	1.087	.	.	.	.	.	.	.	.
6 A071012-4BF	1.088	1.094	1.081	1.077	1.086	1.085	1	a	1.100	1.098	1.101	1.100	1.094	1.084	1.084	1.094	1	a
7 A07769-4	1.079	1.077	1.070	1.067	1.080	1.075	10	def	1.087	1.091	1.091	1.085	1.085	1.070	1.076	1.084	9	cd
8 A10021-5TE	1.080	1.082	1.067	1.067	1.079	1.075	10	def	1.093	1.094	1.090	1.090	1.079	1.069	1.072	1.084	9	cd
9 AOR08540-1	1.081	1.086	1.071	1.071	1.078	1.077	6	cde	1.091	1.095	1.092	1.090	1.083	1.076	1.076	1.086	8	bc
10 AOR10204-3	1.077	1.075	1.060	1.061	1.072	1.069	16	h	1.085	1.089	1.081	1.077	1.077	1.074	1.072	1.079	14	de
11 CO10085-1RU	1.084	1.084	1.064	1.068	1.079	1.076	8	def	1.094	1.095	1.086	1.095	1.092	1.067	1.083	1.087	6	bc
12 CO10087-4RU	1.090	1.086	1.078	1.076	1.086	1.083	2	ab	1.100	1.092	1.089	1.092	1.089	1.083	1.082	1.090	3	ab
13 CO10091-1RUsto	.	1.074	1.067	1.060	1.075	1.069	16	h	1.089	1.085	.	1.086	1.083	1.076	1.079	1.083	13	cd
14 CO11009-3RU	1.082	1.090	1.071	1.077	1.079	1.080	3	bc	1.099	1.104	1.093	1.097	1.092	1.085	1.088	1.094	1	a
15 OR12133-10	1.078	1.080	1.066	1.062	1.080	1.073	13	fg	1.089	1.098	1.084	1.088	1.083	1.070	1.078	1.084	9	c
16 POR12NCK50-1	1.084	1.086	1.072	1.067	1.081	1.078	4	cd	1.091	1.096	1.087	1.092	1.083	1.073	1.083	1.087	6	bc
17 TX13590-9Ru	1.080	1.081	1.072	1.069	1.077	1.076	8	def	1.095	1.098	1.089	1.086	1.075	1.096	1.074	1.088	5	bc
Mean	1.080	1.083	1.069	1.068	1.079	1.076			1.091	1.092	1.088	1.088	1.084	1.077	1.078	1.085		

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

TABLE 8: 2020 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	CA	Mean	ID	OR	WA	CA	Mean	OR	TX	WA	CA	CO	ID	OR	WA	CA	CO	ID	OR	WA	TUL	SLV	DAL	SPR	AB	PAR	HRM	OTH				
1 RANGER R.	5.5	7.2	5.4	3.0	7.3	5.7	8.1	9.6	10.2	8.0	7.2	10.7	9.0	5.0	4.8	4.0	4.0	4.4	4.0	.	4.6	4.4	5.0	4.0	4.4	1.95	.	2.31	1.80	1.94	2.02	2.18	1.85			
2 R. BURBANK	5.4	6.3	6.1	2.8	7.3	5.6	6.7	5.2	7.5	9.3	7.5	8.7	7.5	4.0	4.9	4.0	4.0	4.2	3.8	5.0	4.1	4.0	4.3	3.0	4.0	1.76	2.00	2.57	1.99	1.97	1.92	2.07	1.74			
3 R. NORKOTAH	5.2	5.5	6.0	3.8	6.2	5.3	6.8	5.9	8.2	7.7	4.9	8.0	6.9	3.3	4.2	4.5	4.0	4.0	3.8	5.0	3.6	4.0	3.8	3.0	3.9	1.83	2.07	1.86	1.81	1.81	1.79	1.89	.			
4 CLEARWATER R	4.7	3.9	4.2	2.1	6.4	4.2	5.4	7.1	7.4	6.0	4.8	8.3	6.5	3.3	4.0	3.5	4.0	3.7	3.5	4.0	3.6	3.9	3.3	3.0	3.5	1.76	1.88	1.71	1.63	1.85	1.70	1.72	1.65			
5 SHEPODY	9.0	5.7	5.3	3.7	9.5	6.6	.	.	.	.	.	.	.	4.0	4.5	4.0	3.0	3.9	.	5.0	.	.	.	.	5.0	.	2.26	1.82	1.46	.	1.73	1.66	.
6 A071012-4BF	5.3	6.2	7.1	4.9	7.9	6.3	10.7	7.3	9.9	11.7	9.1	13.0	10.3	3.8	4.5	4.0	2.7	3.7	3.9	3.0	2.6	3.6	3.5	3.0	3.3	1.75	1.75	2.00	1.50	1.67	1.61	1.73	1.64			
7 A07769-4	6.1	6.5	5.3	3.1	6.2	5.5	8.6	7.0	8.3	8.3	7.3	11.6	8.5	2.0	3.9	2.9	2.3	2.8	3.9	4.0	2.5	4.0	3.5	3.0	3.5	1.68	1.86	1.85	1.37	1.68	1.63	1.55	1.65			
8 A10021-5TE	7.3	6.2	6.1	3.4	7.9	6.2	7.4	8.0	10.9	8.7	6.6	11.6	8.9	4.3	4.8	4.3	3.0	4.1	3.9	5.0	4.4	4.8	5.0	4.0	4.5	1.88	2.17	2.39	1.65	2.00	2.04	1.97	1.91			
9 AOR08540-1	6.3	6.2	4.9	3.4	6.8	5.5	7.4	9.1	9.7	10.3	8.1	10.2	9.1	4.3	4.5	4.2	3.0	4.0	4.0	4.0	4.1	4.3	4.5	3.0	4.0	1.73	1.91	2.20	1.93	1.90	1.79	1.92	1.51			
10 AOR10204-3	6.9	6.2	6.6	3.9	6.9	6.1	8.6	8.5	9.7	9.7	15.0	11.3	10.5	4.5	4.0	4.6	3.0	4.0	3.6	5.0	3.9	3.4	5.0	3.0	4.0	1.72	2.05	1.75	1.89	2.00	1.82	2.08	.			
11 CO10085-1RU	3.6	6.3	3.3	1.7	5.2	4.0	5.8	6.6	6.8	6.7	5.6	7.2	6.4	3.0	3.0	2.8	3.5	3.1	3.6	5.0	4.0	3.3	4.5	2.5	3.8	1.79	2.14	1.56	1.47	1.95	1.75	1.86	1.53			
12 CO10087-4RU	5.2	4.8	7.9	4.4	6.2	5.7	6.1	5.0	7.0	7.7	4.5	5.9	6.1	3.0	4.0	4.1	4.0	3.8	3.9	4.0	3.6	3.8	2.8	3.8	3.6	1.85	1.95	1.91	1.62	1.85	1.76	1.75	1.78			
13 CO10091-1RUsto	5.6	3.3	1.5	4.7	3.8	4.8	.	5.4	5.3	3.6	5.8	5.0	2.0	2.7	2.5	2.5	2.4	3.8	3.0	.	2.9	2.0	2.0	2.7	1.47	1.75	1.49	1.37	.	1.60	1.45	1.48				
14 CO11009-3RU	5.2	5.3	5.7	4.3	5.3	5.1	6.9	7.5	8.7	8.7	7.6	10.1	8.2	4.0	4.9	4.0	4.0	4.2	3.8	4.0	4.0	3.8	4.0	2.8	3.7	1.65	1.98	2.15	1.86	1.88	1.75	1.89	1.61			
15 OR12133-10	5.6	5.9	5.2	2.9	6.7	5.3	7.8	9.4	10.5	10.3	7.9	10.3	9.4	4.0	4.7	4.0	2.0	3.7	3.8	5.0	3.5	4.3	4.0	2.8	3.9	1.62	2.15	2.24	1.72	1.78	1.67	1.85	1.60			
16 POR12NCK50-1	6.3	5.3	5.2	2.8	6.6	5.2	7.4	7.9	9.7	8.0	5.5	8.6	7.9	4.0	4.2	3.6	4.0	3.9	4.4	5.0	4.0	4.0	4.0	3.0	4.1	1.93	2.11	1.94	1.48	1.82	1.83	1.84	1.76			
17 TX13590-9Ru	6.7	5.9	6.3	4.1	6.9	6.0	6.0	6.3	8.9	8.0	6.3	9.8	7.5	2.0	3.9	4.0	2.3	3.1	3.5	3.0	2.3	3.1	2.0	2.0	2.6	1.61	1.62	1.46	1.51	1.61	1.39	1.45	.			
Mean	5.9	5.8	5.5	3.3	6.7	5.4	7.2	7.4	8.7	8.4	7.0	9.5	8.0	3.5	4.2	3.8	3.3	3.7	3.8	4.3	3.7	3.8	3.8	3.0	3.8	1.75	1.98	1.95	1.65	1.85	1.75	1.82	1.67			

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

²Washington reported means of 1.99 for Idaho samples and 1.70 for Oregon samples.

TABLE 9: 2020 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	4.5	4.6	4.6	5.0	4.2	3.8	4.7	4.8
2 R. BURBANK	4.5 PAR 3.3	4.2 TUL 3.0 PAR 3.3	3.3 DAL 2.2 SPR 2.5	3.7 SLV 2.0 HRM 2.0	5.0	3.8 OTH 2.0	3.5	5.0	4.8
3 R. NORKOTAH	5.0	5.0	4.9	5.0	4.8	4.5	3.9	4.8	4.7
4 CLEARWATER R.	4.9	.	4.9	4.8	5.0	.	3.4	5.0	5.0
5 SHEPODY	5.0	5.0	4.0 DAL 2.8	.	5.0	.	.	4.6 PAR 3.3	.
6 A071012-4BF	4.9	5.0	4.1 DAL 2.2	3.5 SLV 2.0	4.8	3.6 OTH 2.0	3.6	4.8	4.6
7 A07769-4	4.8	4.7	5.0	4.5	4.4 OTH 3.0	3.0 OTH 2.0	3.3	4.8	4.7
8 A10021-5TE	4.1 OTH 1.7	4.7	4.4	4.6	4.9	3.8 OTH 2.0	3.7	4.2	4.1 OTH 1.5
9 AOR08540-1	5.0	4.7	4.8	4.5	4.9	3.3 OTH 1.0	3.2	5.0	5.0
10 AOR10204-3	4.8	4.3	4.4	4.3	4.9	4.2	4.2	5.0	5.0
11 CO10085-1RU	5.0	4.9	4.8	4.6	5.0	4.2	3.7	4.9	4.6
12 CO10087-4RU	4.6 OTH 3.7	4.8	4.9	4.9	4.5 OTH 3.0	3.3 OTH 1.0	3.7	5.0	4.9
13 CO10091-1RUsto	5.0	4.6	4.9	5.0	4.7	3.7 OTH 1.0	.	5.0	4.7
14 CO11009-3RU	4.9	4.6	4.9	4.8	5.0	3.8 OTH 2.0	3.5	4.9	4.8
15 OR12133-10	5.0	4.8	4.9	4.7	4.9	3.3 OTH 2.0	3.7	4.8	4.7
16 POR12NCK50-1	5.0	4.8	5.0	4.9	4.9	3.9 OTH 2.0	3.2	5.0	4.7
17 TX13590-9Ru	4.9	4.8	4.9	4.7	4.9	3.2 OTH 2.0	3.1	4.8	4.4
Mean	4.8	4.7	4.6	4.6	4.8	3.7	3.6	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: 2020 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.	3 DAL 13	0	2	3 PAR 13	7 HRM 13	5 TUL 20	4.7	3.9	1.4
2 R. BURBANK	9 OTH 33	5 OTH 18	3 PAR 13	1	3	2	4.6	4.6	3.4
3 R. NORKOTAH	2	1	2	1	0	2	4.8	4.8	1.9
4 CLEARWATER R.	0	0	3 PAR 17	0	3	9 TUL 18 HRM 20	4.4	4.4	3.3
5 SHEPODY	7 HRM 13 DAI 20	0	5 PAR 23	.	14 SPR 33	.	4.6	5.0	.
6 A071012-4BF	9 DAL 43	0	1	1	2	3	4.4	4.0 HRM 2.9	1.7
7 A07769-4	1	0	2	0	1	3	4.4	4.8	3.5
8 A10021-5TE	0	1	7 PAR 33	2	10 SPR 20	13 TUL 15 HRM 43	4.7	4.8	2.3
9 AOR08540-1	12 DAL 57	2	0	1	0	2	4.8	4.7	2.2
10 AOR10204-3	1	0	1	0	2	2	4.9	4.9	3.6
11 CO10085-1RU	0	0	1	0	3	8 TUL 25 HRM 15	4.7	4.8	2.2
12 CO10087-4RU	2	6 TUL 20 KIM 13	1	1	0	4	4.7	4.5	1.5
13 CO10091-1RUsto	0	1	1	0	1	0	4.9	4.8	3.5
14 CO11009-3RU	9 DAL 40	5 PAR 17	1	0	1	2	4.6	4.6	4.0
15 OR12133-10	0	0	3 PAR 13	2	5	8 TUL 38	4.8	4.5	1.2
16 POR12NCK50-1	0	0	3 PAR 13	2	0	4	4.5	4.8	3.5
17 TX13590-9Ru	15 DAL 67	1	1	0	2	8 TUL 15	4.7	4.5	1.4
Entry Means	4	1	2	1	3	4	4.7	4.6	2.5

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: 2020 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		OR		WA		Entry Mean	CO	ID		OR	WA	Entry Mean	ID		OR		Entry Mean	
	SLV	HRM	OTH	L	E	L			L	L				L	L	L	L		L
1 RANGER R.	.	0.5	0.0	0.3	.	0.5	0.6	0.3	1.0	0.5	2.8	2.8	4.0	3.2	0	17	4	8	7
2 R. BURBANK	1.0	1.2	2.0	1.4	1.0	1.8	1.3	0.5	3.0	1.3	3.9	3.8	4.0	3.9	13	8	13	0	8
3 R. NORKOTAH	1.0	1.3	.	1.2	2.0	1.3	1.7	0.7	.	1.1	4.0	3.8	.	3.9	0	13	0	0	3
4 CLEARWATER R.	0.0	1.2	0.0	0.4	0.0	0.5	1.0	0.0	1.0	0.4	1.5	1.9	3.0	2.1	0	0	4	0	1
5 SHEPODY	1.0	0.5	.	0.8	1.0	.	.	0.2	.	0.4	.	.	.	.	.	.	8	.	8
6 A071012-4BF	0.0	0.9	0.0	0.3	1.0	0.7	1.0	0.4	2.0	0.8	2.6	3.2	4.0	3.3	0	15	0	4	5
7 A07769-4	0.0	1.0	0.0	0.3	0.0	0.3	0.4	0.0	1.0	0.3	0.7	0.8	3.0	1.5	4	0	0	0	1
8 A10021-5TE	0.0	1.0	0.0	0.3	0.0	0.8	0.7	0.9	1.0	0.6	3.1	1.9	4.0	3.0	0	0	8	4	3
9 AOR08540-1	0.0	0.9	0.0	0.3	0.0	0.7	1.0	0.5	1.0	0.5	3.5	3.9	4.0	3.8	8	4	0	13	6
10 AOR10204-3	1.0	1.4	.	1.2	2.0	0.9	1.4	0.2	.	0.9	2.9	2.8	.	2.9	10	4	8	0	6
11 CO10085-1RU	1.0	1.0	0.0	0.7	1.0	0.6	0.8	0.1	3.0	0.9	1.5	3.3	4.0	2.9	4	0	8	0	3
12 CO10087-4RU	0.0	0.5	1.0	0.5	1.0	1.7	1.3	0.0	1.0	0.8	4.0	2.9	3.0	3.3	0	4	4	17	6
13 CO10091-1RUsto	1.0	0.9	0.0	0.6	1.0	.	0.5	0.0	1.0	0.5	.	3.2	4.0	3.6	.	0	4	0	1
14 CO11009-3RU	0.0	0.7	0.0	0.2	0.0	0.3	0.3	0.7	0.0	0.2	0.6	0.5	3.0	1.4	0	0	4	0	1
15 OR12133-10	1.0	1.0	0.0	0.7	0.0	0.7	0.9	0.2	2.0	0.6	2.8	2.5	4.0	3.1	0	4	0	8	3
16 POR12NCK50-1	0.0	0.5	0.0	0.2	0.0	0.4	0.5	0.4	2.0	0.5	1.8	2.0	4.0	2.6	4	8	4	4	5
17 TX13590-9Ru	0.0	0.8	.	0.4	0.0	0.5	0.7	0.0	.	0.2	1.8	3.1	.	2.5	0	8	4	4	4
Mean	0.4	0.9	0.2	0.6	0.6	0.8	0.9	0.3	1.5	0.6	2.5	2.7	3.7	2.9	3	5	4	4	4

¹ Evaluations from 45F.

Storage protocol prior to frying

Aberdeen - 1 week from 50F to 45F; 2 weeks from 50F to 40F; and 8 weeks @ 45F and 10 weeks @ 40F.

Hermiston - 2 weeks from 55F to 47 F, and 8 weeks @ 47F.

Kimberly - 1 week from 50F to 45F; 2 weeks from 50F to 40F; and 6 weeks @ 45F and 8 weeks @ 40F.

Othello - 3 weeks from 55F to 44F and 60 days @ 44F and 40F.

San Luis Valley - 4 weeks from 55F to 45F, and 9 weeks @ 45.

* Comprehensive post harvest evaluations of entries can be found in the 2020 Potato Cultivar Yield & Post Harvest Quality Evaluations - Washington State University. Contact: Rick Knowles. www.potatoes.wsu.edu

TABLE 12: 2020 Western Regional Potato Variety Trial - Washington State University Postharvest Storage Trials - FRENCH FRY COLOR

No. Clone	PRIOR TO STORAGE*				48°F, 60 days*				44°F, 60 days*				40°F, 60 days*				RECONDITIONED*			
	WA	ID	OR	Mean	WA	ID	OR	Mean	WA	ID	OR	Mean	WA	ID	OR	Mean	WA	ID	OR	Mean
1 RANGER R.	0	0	0	0.0	1	0	0	0.3	1	0	0	0.3	4	3	3	3.3	2	1	3	2.0
2 R. BURBANK	2	0	0	0.7	3	1	0	1.3	3	2	1	2.0	4	4	3	3.7	3	2	3	2.7
3 R. NORKOTAH	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
4 CLEARWATER R.	0	0	0	0.0	0	0	0	0.0	1	0	0	0.3	3	2	0	1.7	2	1	1	1.3
5 SHEPODY	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
6 A071012-4BF	0	0	0	0.0	0	1	0	0.3	2	2	0	1.3	4	3	0	2.3	2	3	2	2.3
7 A07769-4	0	0	0	0.0	0	1	0	0.3	1	2	0	1.0	3	3	1	2.3	2	2	1	1.7
8 A10021-5TE	0	0	0	0.0	0	0	0	0.0	1	0	0	0.3	4	2	2	2.7	2	1	2	1.7
9 AOR08540-1	0	0	0	0.0	0	0	0	0.0	1	2	1	1.3	4	4	4	4.0	3	3	3	3.0
10 AOR10204-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
11 CO10085-1RU	0	0	0	0.0	2	1	0	1.0	3	1	0	1.3	4	3	3	3.3	2	2	0	1.3
12 CO10087-4RU	1	0	0	0.3	1	0	0	0.3	1	0	0	0.3	3	3	3	3.0	3	2	2	2.3
13 CO10091-1RUsto	0	.	0	.	1	.	0	.	1	.	0	.	4	.	2	.	2	.	2	2.0
14 CO11009-3RU	0	0	0	0.0	0	0	0	0.0	0	0	0	0.0	3	0	0	1.0	0	0	0	0.0
15 OR12133-10	0	0	0	0.0	1	0	0	0.3	2	0	0	0.7	4	3	2	3.0	3	2	2	2.3
16 POR12NCK50-1	0	0	0	0.0	1	0	0	0.3	2	0	0	0.7	4	2	2	2.7	2	2	1	1.7
17 TX13590-9Ru	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Mean	0.2	0.0	0.0	0.1	0.8	0.3	0.0	0.4	1.5	0.8	0.2	0.8	3.7	2.7	1.9	2.8	2.2	1.8	1.7	1.9

*Reconditioned - 21 days at 60 F following 60 days at 40 F; Samples from all states stored together at WSU

*USDA values - 1 (light) to 4 (dark); 12 tubers per sample

TABLE 13: 2020 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		Prosser			Pectobacterium				
		AB ¹		TUL ³		Foliar		Foliar	Tuber	%	Serious	Corky Ringspot		Fusarium	Soft	Metribuz.		
		(0-9)	AUDPC	(0-9)	AUDPC	(0-9)	AUDPC	(1-9)	AUDPC	%	Incid.	Defect	%	Incid.	DSI ⁵	Dry Rot ¹ (0-5) F(sam)	Rot ¹ (0-5)	React. ⁶ AB
1	RANGER R.	4.3	97	5.0	441	4.7	118	8.0	1323	0	22	10	69	55	S	1.8	3.0	R
2	R. BURBANK	7.0	488	7.3	951	5.0	150	9.0	1341	5	0	0	74	58	S	3.9	3.1	MR
3	R. NORKOTAH	8.7	1332	9.0	1590	3.3	131	9.0	1372	0	5	3	47	31	S	2.0	1.8	R
4	CLEARWATER R.	.	.	4.0	174	.	.	.	.	.	.	.	62	51	S	.	.	VR
5	SHEPODY	6.7	561	.	.	5.7	220	9.0	1377	0	12	10	70	50	S	2.9	2.3	.
6	A071012-4BF	1.3	5	4.5	314	2.7	32	8.5	1313	0	15	4	53	38	S	4.5	2.3	VR
7	A07769-4	2.7	34	6.3	738	5.3	337	8.5	1297	0	13	10	28	17	S	3.5	3.1	R
8	A10021-5TE	5.7	366	5.8	486	3.7	69	7.3	1074	5	12	4	62	47	S	4.6	2.6	VR
9	AOR08540-1	6.0	303	6.5	551	3.3	55	7.3	949	3	20	4	66	47	S	3.3	3.1	MR
10	AOR10204-3	4.0	93	5.0	232	4.3	130	7.5	940	3	29	7	57	45	S	5.0	3.7	VR
11	CO10085-1RU	.	.	5.0	261	.	.	6.0	823	0	.	.	34	25	S	.	.	S
12	CO10087-4RU	6.3	433	7.5	869	5.0	232	9.0	1328	0	10	3	54	42	S	5.0	3.0	MS
13	CO10091-1RUsto	.	.	6.3	484	.	.	7.3	957	3	.	.	88	77	S	4.1	.	VS
14	CO11009-3RU	.	.	4.8	395	.	.	8.8	1212	0	.	.	74	61	S	.	.	S
15	OR12133-10	4.3	117	6.5	776	3.3	69	5.8	739	3	35	5	89	77	S	4.8	3.3	R
16	POR12NCK50-1	6.7	435	6.8	718	3.3	76	8.5	1196	0	14	6	51	34	S	4.9	3.6	S
17	TX13590-9Ru	6.0	201	6.5	609	4.3	114	.	.	.	41	21	57	38	S	2.5	4.9	R
Entry Means		5.4	343	6.0	599	4.2	133	8.0	1149	1	18	7	61	47		3.8	3.0	
LSD (.05)		2.6				2.2		1.0	188	n.s.	22	n.s.			0.8	0.9		

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 98, 104, 111, and 119 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 early-dying rating taken 80, 84, 91, 98, 108 days after planting.

⁴ Evaluations made at Corvallis, Oregon by Solomo Ratings are averages for 4 reps: 1 = no foliar injury; 2 = 1-5% injury; 3 = 5-10% injury; 4 = 10-20%; 5 = 25-40%; 6 = 40-60%; 7 = 60-75%; 8 = 75-90%; 9 = 90-100% injury. Percent of late blight infected tubers at harvest based on 10 randomly selected tubers per replication.

⁵ Visual readings made at Prosser, Washington by Rich Quick and Launa Cimrhakl: tubers cut lengthwise, quartered and scored (0-8) based on the number of wedge sides affected. Disease Severity Index (DSI) was calculated for each replication by summing the scores (S) of each tuber evaluated (T) and dividing that number by the number of tubers evaluated multiplied by the worst possible score (8) and multiplying by $DSI = (\sum S)/(T*8)*100$

TRV Disease Rating Based on %DSI:R=Extreme Resistance (0-1%);MR=Moderate Resistance (1.1-5%);MS=Moderately Susceptible (5.1-10%);S=Susceptible (10.1+%)

⁶ Evaluations made at Aberdeen, Idaho; VR=Very Resistant, R=Resistant, MR=Moderately Resistant, S=Susceptible, MS=Moderately Susceptible, VS=Very Susceptible

TABLE 14: 2020 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		Glycoalkaloids ⁵ (mg/100g FWB) ¹
		Dextrose (%FWB) ¹	Sucrose (%FWB) ¹			µg Trolox equivalents/gfw ³	AOA Levels ⁴	
1 RANGER R.	24.2	0.04	0.17	6.6	29.7	285.7	H	5.9
2 R. BURBANK	21.5	0.07	0.13	5.7	18.7	133.6	L	5.0
3 R. NORKOTAH	21.3	0.06	0.11	5.9	19.8	299.0	H	3.6
4 CLEARWATER R.	25.1	0.03	0.15	8.6	25.9	185.9	M	4.2
5 SHEPODY	.	.	.	.	.	146.9	M	.
6 A071012-4BF	25.6	0.03	0.18	7.6	17.3	177.5	M	6.6
7 A07769-4	22.7	0.02	0.15	6.1	16.4	101.3	L	4.6
8 A10021-5TE	22.9	0.04	0.18	8.6	24.7	209.9	M	3.9
9 AOR08540-1	23.6	0.04	0.16	6.8	18.7	138.5	M	3.6
10 AOR10204-3	22.1	0.08	0.17	7.9	18.1	128.7	L	1.7
11 CO10085-1RU	23.3	0.07	0.18	7.4	20.6	243.2	M	10.4
12 CO10087-4RU	23.5	0.06	0.12	7.6	21.1	197.1	M	5.0
13 CO10091-1RUsto	.	.	.	.	.	206.7	M	.
14 CO11009-3RU	24.0	0.02	0.11	9.1	24.0	199.1	M	4.1
15 OR12133-10	21.9	0.06	0.17	7.7	27.4	245.5	M	3.6
16 POR12NCK50-1	22.8	0.02	0.11	8.2	20.0	225.7	M	4.9
17 TX13590-9Ru	23.9	0.02	0.12	7.1	17.0	.	.	3.8
Mean	23.2	0.05	0.15	7.4	21.3	195.3		4.7

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: $y = .0033x + 1.1965$

⁴ VH=very high (>422), H=high (269-298), M=medium (255-138), L=low (135-90), VL=very low (<89) n=57 including nine check varieties

⁵ Glycoalkaloids: The 2020 Lenape check grown at Aberdeen was 35.8 mg/100g

TABLE 15: 2020 Western Regional Potato Variety Trial - MERIT SCORES [1-5(best)]

No. Clone	Field Performance Process Merit													Post-Harvest		Fresh Merit														
	CO		ID		OR		WA		Early		Late		All Trials		Process	WA [†]	CA		CO		ID		OR		TX		WA		Early	Late
	SLV	AB	KIM	HRM	OTH	HRM	OTH	HRM	OTH	Mean(Rnk)	Mean(Rnk)	Mean(Rnk)	Entry	3 State	TUL	SLV	AB	KIM	HRM	DAL	SPR	OTH	OTH	Mean(Rnk)	Mean(Rnk)	Mean(Rnk)	Mean(Rnk)	Mean(Rnk)	Mean(Rnk)	
	L	L	L	E	L	E	L	E	L					Mean	L	L	L	L	E	L	E	E	E	L						
1 RANGER R.	.	3.0	2.5	3.0	3.0	2.7	2.7	2.9	9	2.8	10	2.8	11	3.2	3.3	.	2.1	1.8	2.0	2.0	3.7	3.6	1.4	1.1	2.4	12	2.0	13		
2 R. BURBANK	3.0	1.5	2.0	3.0	2.0	2.7	2.2	2.9	9	2.1	13	2.3	14	2.7	3.3	2.0	1.8	1.6	2.0	2.0	3.6	3.3	1.3	1.3	2.3	14	2.0	13		
3 R. NORKOTAH	1.0	2.0	2.0	3.0	2.0	1.4	1.5	2.2	16	1.7	16	1.8	16	.	4.0	1.0	3.4	2.8	4.0	3.5	4.2	4.1	1.8	1.3	3.3	3	2.7	7		
4 CLEARWATER R.	4.0	3.5	2.5	2.0	3.0	4.5	3.8	3.3	6	3.4	4	3.3	6	3.5	4.0	3.0	2.9	3.0	2.0	2.5	4.1	3.6	2.8	2.1	3.0	6	2.9	5		
5 SHEPODY	2.0	.	.	2.0	.	3.2	.	2.6	12	2.0	15	2.4	13	.	.	1.0	.	.	1.0	.	3.5	3.8	.	.	2.3	14	1.0	16		
6 A071012-4BF	4.0	3.0	2.0	3.0	3.0	4.6	3.4	3.8	4	3.1	7	3.3	6	2.8	3.0	3.0	2.4	2.5	2.5	2.5	3.5	3.6	2.3	0.7	2.8	11	2.3	10		
7 A07769-4	5.0	4.0	4.0	2.0	3.5	3.0	3.1	2.5	14	3.9	2	3.5	3	2.8	3.4	5.0	3.0	3.3	2.0	3.5	3.6	3.6	1.6	1.5	2.4	12	3.3	3		
8 A10021-5TE	5.0	2.5	3.0	3.0	2.5	3.8	1.8	3.4	5	3.0	8	3.1	8	3.6	3.4	4.0	3.3	2.6	3.0	3.0	3.7	3.5	2.0	0.7	2.9	8	2.8	5		
9 AOR08540-1	5.0	3.0	2.5	4.0	3.5	4.3	2.4	4.2	1	3.3	4	3.5	3	2.9	3.4	4.0	2.4	1.9	4.0	3.5	4.0	3.9	3.8	1.1	3.9	1	2.7	7		
10 AOR10204-3	5.0	2.5	2.0	2.5	2.0	2.7	2.1	2.6	12	2.7	11	2.7	12	2.1	3.1	5.0	3.1	2.6	2.5	2.0	4.1	3.8	2.1	0.9	2.9	8	2.8	5		
11 CO10085-1RU	4.0	3.5	2.5	2.5	2.0	2.1	3.8	2.3	15	3.2	6	2.9	10	2.9	3.4	3.0	2.8	2.5	2.0	2.0	3.5	3.2	1.0	1.5	2.2	16	2.5	9		
12 CO10087-4RU	3.0	2.0	2.5	2.0	1.5	3.4	2.0	2.7	11	2.2	12	2.3	14	3.4	3.0	2.0	2.9	2.9	2.0	1.0	4.4	4.1	2.9	1.2	3.1	5	2.2	12		
13 CO10091-1RUsto	2.0	.	2.5	1.0	2.0	1.2	1.9	1.1	17	2.1	13	1.8	16	2.5	3.0	1.0	.	3.0	1.0	1.5	3.5	3.0	1.3	1.7	1.9	17	2.0	13		
14 CO11009-3RU	5.0	4.5	4.5	4.0	4.0	2.0	3.6	3.0	8	4.3	1	3.9	1	4.3	3.9	5.0	3.0	3.1	3.0	4.0	3.7	4.2	1.9	2.0	2.9	8	3.5	1		
15 OR12133-10	5.0	2.5	2.5	4.0	3.0	4.0	3.7	4.0	3	3.3	4	3.5	3	3.0	2.5	5.0	2.9	2.8	3.5	3.5	3.9	3.6	2.3	2.1	3.2	4	3.1	4		
16 POR12NCK50-1	5.0	3.5	3.0	3.5	3.5	4.7	4.0	4.1	2	3.8	3	3.9	1	3.2	3.5	4.0	3.5	2.5	3.0	4.0	4.1	3.7	3.7	2.7	3.6	2	3.4	2		
17 TX13590-9Ru	4.0	3.5	2.5	3.0	3.0	3.3	1.9	3.2	7	3.0	8	3.0	9	.	2.9	3.0	1.8	2.1	2.5	2.5	4.4	4.2	2.1	1.6	3.0	6	2.3	10		
Mean	3.9	3.0	2.7	2.8	2.7	3.2	2.7	3.0	9	2.9	8.3	2.9	8.6	3.1	3.3	3.2	2.7	2.6	2.5	2.7	3.8	3.7	2.1	1.5	2.8	8.6	2.5			

[†] 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 16: 2020 Western Regional Potato Variety Trial - ENTRY SUMMARY1

Entry No. Clone	Year In Use Trial	Total Yield ²	US #1's Yield ²	US % #1's ²	Tuber Size (oz)		Specific Gravity ²	Combine(E&L)			Observations	Disp. 2020
					Early	Late		Fry45 Color	Merit Score ³	Fresh		
1 RANGER R.	- Dual	606	465	76	5.7	9.0	1.084	0.5	2.8	2.2		Check
2 R. BURBANK	- Dual	576	397	68	5.6	7.5	1.078	1.3	2.3	2.1		Check
3 R. NORKOTAH	- Fresh	473	386	80	5.3	6.9	1.072	1.1	1.8	2.9		Check
4 CLEARWATER R.	- Dual	608	512	83	4.2	6.5	1.090	0.4	3.3	2.9		Check
5 SHEPODY	- Proc	390	292	69	6.6	.	1.074	0.4	2.4	2.3		Check
6 A071012-4BF	3 Dual	637	477	75	6.3	10.3	1.094	0.8	3.3	2.5	Larger tuber size with high % and yield of oversize (E & L); Higher Specific Gravity (E&L); 2nd growth noted (L); Blackspot bruise noted at Hermiston; Resistant to Vert/Early Die and Early Blight;	GRAD
7 A07769-4	3 Dual	594	491	82	5.5	8.5	1.084	0.3	3.5	3.0	Shatter bruise (L); Cold-sweetening resistant; Higher merit for processing and fresh (Late)	GRAD
8 A10021-5TE	3 Dual	578	456	79	6.2	8.9	1.084	0.6	3.1	2.9	Higher Net Necrosis/Vascular Discoloration (E&L); Higher protein;	GRAD
9 AOR08540-1	1 Dual	649	519	79	5.5	9.1	1.086	0.5	3.5	3.2	High Total & US Yield (E&L); Larger tuber size with high % and yield of oversize (L); Shatter bruise (L); Hollow heart (E)--notable at Dalhart; Highest merit for processing and fresh (Early);	RTRN
10 AOR10204-3	1 Fresh	740	481	71	6.1	10.5	1.079	0.9	2.7	2.9	High Total Yield (E&L); Lower Specific Gravity (E&L); Larger tuber size; Possible shatter resistance based on Aberdeen evaluation; Resistant to Vert/Early Die; Susceptible to common scab;	DSCRD
11 CO10085-1RU	1 Proc	537	439	80	4.0	6.4	1.087	0.9	2.9	2.4	Smaller tuber size with high % and yield of undersize (E & L); MR to Late Blight; susceptible to metribuzin; lower merit for processing and fresh (Early);	RTRN
12 CO10087-4RU	2 Dual	412	336	80	5.7	6.1	1.090	0.8	2.3	2.6	Higher Specific Gravity (E&L);	DSCRD
13 CO10091-1RUsto	2 Dual	462	372	78	3.8	5.0	1.083	0.5	1.8	2.0	Low Total & US Yield (E&L); Smaller tuber size with high % and yield of undersize (E & L); Rounded tuber shape (E&L); Very susceptible to metribuzin; Low merit for processing and fresh (Early & Late);	DSCRD
14 CO11009-3RU	1 Proc	612	519	84	5.1	8.2	1.094	0.2	3.9	3.3	Higher Specific Gravity (E&L); Potential Blackspot Resistance based on Aberdeen evaluation; Cold-sweetening resistant; Susceptible to metribuzin; Higher protein; Highest merit for fresh and processing (Late)	RTRN
15 OR12133-10	2 Dual	737	655	88	5.3	9.4	1.084	0.6	3.5	3.3	High Total and US Yield (E&L); Larger tuber size with high % and yield of oversize (L); Shatter bruise (L); MR to late blight; Susceptible to common scab; Higher merit for process (Early);	RTRN
16 POR12NCK50-1	2 Dual	554	480	86	5.2	7.9	1.087	0.5	3.9	3.5	Susceptible to metribuzin; Higher protein; High merit for processing and fresh (Early & Late);	RTRN
17 TX13590-9Ru	1 Fresh	648	535	81	6.0	7.5	1.088	0.2	3.0	2.7	High % and yield of oversize (E); Rounded tuber shape (E&L); Shatter bruise (L); Hollow heart (E)-notable at Dalhart; Susceptible to common scab and soft rot;	RTRN
Mean		577	459	79	5.4	8.0	1.085	0.6	3.0	2.7		

¹ Numeric values represent means across all trial locations.

² Data shown from late trial results unless early trial entry only. (Entry 5)

³ Data shown from combined early & late trial results.

TABLE 17: 2020 Western Regional Potato Variety Trial - 3 YEAR SUMMARY OF GRADUATING ENTRIES - LATE TRIAL LOCATION MEANS

Clone	2018						2019						2020					
	Total Yield ¹ &(rank)	US #1 Yield ¹ & %	SG	Fry 45	Merit Score		Total Yield ¹ &(rank)	US #1 Yield ¹ & %	SG	Fry 45	Merit Score		Total Yield ¹ &(rank)	US #1 Yield ¹ & %	SG	Fry 45	Merit Score	
A071012-4BF	684 (3/20)	591 86	1.099	1.3	2.9	3.5	659 (4/18)	558 84	1.098	1.5	2.8	3.4	637 (4/16)	477 82	1.094	0.8	2.3	3.1
A07769-4	627 (10/20)	547 87	1.087	0.4	3.0	4.3	605 (5/18)	522 86	1.085	1.2	3.4	3.7	594 (9/16)	491 79	1.084	0.3	3.3	3.9
A10021-5TE	638 (9/20)	552 86	1.090	0.3	3.1	3.9	570 (9/18)	475 82	1.089	0.6	3.0	3.5	578 (10/16)	456 79	1.084	0.6	2.8	3.0
RANGER R.	652 (7/20)	556 84	1.091	0.9	2.4	3.0	575 (8/18)	449 76	1.086	0.8	2.3	2.8	606 (8/16)	465 68	1.084	0.5	2.0	2.8
R. NORKOTAH	480 (20/20)	402 82	1.076	1.9	3.1	1.5	455 (15/18)	370 80	1.072	1.6	2.8	1.9	473 (14/16)	386 83	1.072	1.1	2.7	1.7
R. BURBANK	592 (12/20)	449 75	1.084	1.3	2.3	2.0	554 (10/18)	403 68	1.081	1.9	1.7	2.3	576 (11/16)	397 80	1.078	1.3	2.0	2.1
Trial Mean	606	507 83	1.087	1.0	3.1	2.7	557	444 79	1.085	1.2	2.7	2.7	589	470 79	1.085	0.6	2.5	2.9

3 Year Average (2018-2020)

Clone	Total Yield ¹ &(rank) ²	US #1 Yld ¹ %	SG	FRY 45	Merit Score		Noted Weaknesses	Noted Strengths
					Fresh	Proc		
A071012-4BF	660 (79)	542 84	1.097	1.2	2.7	3.3	None consistently noted over years	High total yields (Early & Late)-2/3 years; Higher specific gravity (E&L)- (3/3); Larger tuber size (3/3); Resistant to Vert/Early Die (3/3); High process merit-Early (3/3);
A07769-4	609 (55)	520 84	1.085	0.6	3.2	4.0	Shatter bruise-Late (2/3 years);	Cold-sweetening Resistant -3/3 years; High process merit-Late (3/3); High fresh merit-Late (2/3); Moderate resistance to PVY (2/2);
A10021-5TE	595 (48)	494 82	1.088	0.5	3.0	3.5	Net Necrosis/Vascular Discoloration-Early(2/3 years);	High process merit-Late (2/3 years); Higher Vitamin C (2/3); Higher protein (2/3); Resistance to PVY (2/2);
RANGER R.	611 (57)	490 76	1.087	0.7	2.2	2.9		
R. NORKOTAH	469 (10)	386 82	1.073	1.5	2.9	1.7		
R. BURBANK	574 (39)	416 74	1.081	1.5	2.0	2.1		
Trial Mean³	584	474 80	1.086	0.9	2.8	2.8		

¹ (CWT/A)² Percent of entries with lower yields; e.g. 79% of all late trial entries over three years yielded lower than A071012-4BF³ Late Trial means of all trial entries 2018 - 2020.

TABLE 18: 2020 Western Regional Potato Variety Trial - ENTRY COMMENTS - EARLY HARVEST

Entry Comments - Early Harvest

No Clone	ID PAR	TX DAL	TX SPR	OR ¹ HRM	WA OTH	
1	Ranger Russet	curved, SED	long+, many eyes, deeper eyes, high tuber numbers, skinny, pointed,	heat sprouts++, nice	curvy x3, db x2, dotted-pixel x2, pty x3, irregular x2	Long, skinny, lots of rot.
2	Russet Burbank	dumbells, SED	MANY knobs++, high tuber number, skinny++, stolon end rot, misshapen, very white flesh+, very long	all deformed+, heat sprouts+, many knobs+, high tuber number	db x2, pty x3, pixel x2, knobs x2, nipple x2	Large, long, lots of rot.
3	Russet Norkotah	uniform, SED	nice, BOT, nice shape, good skin	.	typy x4, sticky x2	Smaller, typy, rhizoc, lots of rot.
4	Clearwater Russet	small, SED	nice skin, nice, good skin, good shape,	heat sprouts, small+, nice skin, nice shape, uniform size, uniform shape	pixel x4, pty x4, spr x4, short x2, skinning x2	Typy, dark russetting, skinning.
5	Shepody	non-uniform, SED	MANY knobs+, smooth skin, long, light skin,	light skin+, nice, many heat sprouts+	irregular x3, rot x2, pty x3, pear x2, rhizoc x2, lenticels x3	Longer, light skin, nonuniform shape.
6	A071012-4BF	non-uniform, small, round, scaly russet	nice shape, long+, MANY knobs+, pointed, large	dark bruising++	pixel x2, deep eyes x4, irregular x2, flakey x2	Ugly skin, some long, some round, feathery russet.
7	A07769-4	round, black scurf, uniform, SED	light skin	.	short x3, round x4, SB x2, rot x2, pty x2,	Some round, smaller, some long.
8	A10021-5TE	blocky, SED, pointed, curved	pointed, many eyes, knobs, long	knobs, heat sprouts	lenticels x2, cracky x4, flakey x3, blocky x3, typy x2, pty x2	Scab, skin cracks, ugly skin.
9	AOR08540-1	pointed	nice shape and size, long, nice, skinny, many eyes	nice shape, medium size, uniform size, uniform shape, pointed,	pty x3, flakey x2, pixel x4, curvy x3	Mostly typy, some odd shapes, medium russets.
10	AOR10204-3	curved, pointed	knobs, nice skin and shape+	long, light round eyes, many eyes, round opened eyes, pretty eyes, pointed	pty x4, skinning x3, GC x2, knobs x2, pixel x2	Lots of lenticils, nonuniform shape, cracks and rot.
11	CO10085-1RU	pointed, round, black scurf, SED	sprouts, short, nice skin	many smalls, non-uniform size, many heat sprouts+, chain tubers	pty x3, flat x3, short x3, spr x4	Lots of rot, long and pointy, lenticils prevelant.
12	CO10087-4RU	uniform, SED	vey nice shape, size and skin++	very nice shape, size and appearance, uniform size and shape, pretty, BOT	pixel x3, short x4, typy x4, pty 4, thin x2	Typy, smooth skin, medium russet.
13	CO10091-1RUsto	.	pointed	few tubers, intense russet, non-uniform size, non-uniform shape	v. short x3, pear x2, round x4, triangular x2	Typy, but short, nice medium russet skin. Not early!
14	CO11009-3RU	uniform, small	nice russet skin, skinny, pointed, soft stolon ends	nice size, good skin, uniform shape, uniform size, thin, some pointed	pixel x4, skinning x3, rot x2	Typy dark russet. Good length, skinny, smaller.
15	OR12133-10	uniform, SED	not russet skin, skinny, long, light skin, high tuber number, nice	light skin, pointed, not uniform skin,	lenticels x3, typy x3, flakey x2, pty x4	Short, light russet, ugly skin.
16	POR12NCK50-1	non-uniform, SED, patchy russet	nice skin and shape, very nice	.	pixel x4, typy x4, skinning x3, short x2	Mostly typy, dark russet, feathered skin, skinning, uniform size.
17	TX13590-9Ru	round, black scurf, pointed, SED	blocky+, high tuber number, nice, BOT, hollow heart+, very nice size and shape, hollow heart even in relatively small tubers	high tuber number, nice+, nice skin	round x4, short x3, pty x3, pear x2, triangular x3, sticky x2	Many different shapes and sizes, nonuniform shape.

TABLE 19: 2020 Western Regional Potato Variety Trial - ENTRY COMMENTS - LATE HARVEST

Entry Comments - Late Harvest

No. Clone	CA TUL	CO SLV	ID ¹			OR ¹ HRM	WA OTH
			AB	KIM	PAR		
1 Ranger Russet	Bowling pin/pointy tubers	.	Curves (3)	Not uniform, few curves (2)	curved	snakey x3, curvy x4, pty x3, irregular x2	Long, somewhat typy, some rough.
2 Russet Burbank	Lumpy tubers	Rough	Not uniform (3); misshapen (2)	Not uniform (3); bumps, curves (2)	typical	knobs x4, irregular x4, bottle x4, db x3	Mostly typy, some irregular ones, medium russet.
3 Russet Norkotah	.	.	Small, typey, nice shape few points/hooks ends	Uniform (3); big for Nork (2)	blocky	tuberworm x4, typy x3, scurf x2	Smaller, lots of rot, somewhat typy.
4 Clearwater Russet	.	Rough	Few bulging eyes, few bumps, fairly uniform (2); few points, some skinning	Fairly uniform (3); few bumps (3)	blocky	typy x4, dotted-pixel x3, twins x3, spr x3, short x3	Mostly typy, poor skin set. Exposed lenticils.
5 Shepody	.	Rough	.	.	.	.	.
6 A071012-4BF	Lumpy, deep eyes	Pink inside, rough	Few ats (3); not uniform, deeper eyes (2);	Fairly uniform, few curves (2); few ats, few "u" shaped	patch russet, curved, irregular	blocky x3, knobs x4, skinning x2, bottle x2, flakey x4, deep eyes x3	Large, ugly, rot, rough, knobs.
7 A07769-4	Square tubers	Shatter bruise, light skin	Short (3); round, uniform, rot (2)	Uniform, some shatter (2); blocky, few bulging eyes	blocky	SB x4, short x2, blocky x2, typy x2, lenticils x2	Shape irregular, bumpy, plump, larger, light skinned.
8 A10021-5TE	Light color, yellow skin color, long	Pink inside, light russet, rough	Long, bent ends, uniform (2); good eye	Checking, curves (4), uniform (2); "u" shaped	alligator hide	flakey x3, pty x2, cracky x3, typy x3, curvy x2	Severe skin cracks, large, long, ugly skin.
9 AOR08540-1	Pink eyes, and some elephant hide	Rough	Curves (4); green, rot (2); "u" shaped, few brows, some shatter	Curves, bumps (3)	pear shape	typy x3, curvy x3, nice x3, pr eyes x2	Light skin, shape a bit irregular, ugly skin, larger.
10 AOR10204-3	unsightly ruptured lenticils	Pointed	Curves, uniform, few points (3); few bumps (2)	Curves, short, few bumps	curved, bulging eyes	curvy x2, db x2, skinning x2, twins x2, irregular x3	Most are US #2s, irregular shapes.
11 CO10085-1RU	Fair skin/russeting	Sprouting	Low yield (3); curves (2)	Short, some shatter, little flat, sprouting at grading and fry	pointed, dumbbells, sprouts	knobs x2, bottle x2, irregular x3, spr x4, db x2, ugly x2	Smaller, somewhat typy, a lot of smaller ones.
12 CO10087-4RU	Flat, pancake shaped tubers	Nice, small size	Small, low yield (3); flat, uniform (2)	Uniform (4); smaller, low yield, some shatter (2)	blocky	short x4, pty x4, bottle x3, rot x3, flakey x2, triangular x2	Smaller, light to medium russet, somewhat typy.
13 CO10091-1RUsto	round tubers, nice russeting	Herbicide damage	.	Uniform, short/round (2)	alligator hide	short x4, R x4, small x2, rot x3	Mostly round and flat, some longer. Medium russet.
14 CO11009-3RU	nice shape	Nice	Nice shape, curves (3); uniform (2)	Uniform (4); few bumps (2); few green, nice shape/eye	irregular	nice x4, typy x4, blocky x3, curvy x2, FM x2	Nice dark skin, typy, a bit short, some #2s.
15 OR12133-10	yellow skin color, inconsistent russeting	Light russet	Not uniform, good yield, slight brow, few curves, green, sprouts at fry	Throws lighter russet, few bumps, some green (2), sprouts at fry	alligator hide, pointed	lenticils x2, typy x3, nice x3, spr x4, greening x2	Large, a bit short, plump, some scab.
16 POR12NCK50-1	Narrow tuber shape, susceptible to skinning	Nice	Uniform (2); skinnig lower yield, nice shape	Blocky, few bulging eyes (2); little flat shorter few bumps	blocky	typy x4, nice x3, pixel x3, FM x2, skinning x4	Mostly typy, skin is an issue, ok length.
17 TX13590-9Ru	Spotchy color, bluish hue on skin	Rough, light russet	Not uniform (4); round, points (2)	Not uniform (2); slight shatter, some curves	pear shape	blocky x4, short x4, pty x4, triangular x2, R x2	Softballs and baseballs, irregular shapes.