

2016 TRI-STATE RUSSET POTATO VARIETY TRIAL REPORT



State Experiment Stations and
USDA-ARS Cooperating

Washington

Oregon

Idaho

2016 TRI-STATE POTATO VARIETY TRIAL REPORT

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Compiled by Chelsey Lowder

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TABLE 1: 2016 Tri-State Potato Variety Trial - LOCATIONS, COOPERATORS, AND CULTURAL INFORMATION

Locations	Cooperators	Trial	Irrigation	Fertilizer (lb/A)	Planting Date	Vine Kill Date	Harvest Date	Days to Vine Kill	Days to Harvest	Herbicides	Insecticides	Fungicides
Aberdeen Idaho (ID)	J. Stark	Early	Solid Set	197N-170P-0K- 10Zn-5Mn	4-May	23-Aug	9-Sep	111	128	TriCor 4F	Admire	
	J. Whitworth R. Novy B. Schneider C. Lowder J. Hatch	Late		Seed spacing: in row 10.6" rows 36"	5-May	1-Sep	21-Sep	119	139	Matrix Eptam 7-E		
Ontario Oregon (HOR)	Clint Shock	Early	Solid Set	110N-40K	7-Apr	14-Aug	15-Aug	129	130	Dual Magnum Prowl H2O Matrix	Admire Agr-Mek Mavento	Bravo
Hermiston Oregon (HOR)	Sagar Sathuvalli	Late	Pivot	385N-190P-375-K- 90S-25Mg-3.0B- 2.25Zn	7-Apr	1-Sep	16-Sep	147	162	Vapam Dual Magnum Matrix Outlook Prowl Reglone	Admire Coragen Agr-Mek Echo	Quadris Ridomil/Bravo Omega Dithane
Klamath Falls Oregon (KOR)	B. Charlton	Late	Solid Set	184N-158P-208K- 236S-2.25B	23-May	6-Sep	30-Sep	106	130	Prowl Matrix Outlook	Leverage 360 Telon II	Ridomil/Bravo Tanos
Othello (EWA) Washington	M Pavek R. Knowles N. Fuller Z. Holden	Early	Linear	100N-100P-150K- 20S-2B	31-Mar	27-Jul	9-Aug	118	131	PreEmerge: Outlook Prowl H2O Metribuzin Post Emerge: Eptam	Platinum	Omega Luna Tranquility Chloronil
Othello (LWA) Washington		Late	Pivot	365N-250P-300K- 2B-40S	5-Apr	2-Sep	12-Sep	150	160			

TABLE 2: 2016 Tri-State Potato Variety Trial - CLONE, PARENTS, FLOWER COLOR, ENTERED BY, SEED SOURCE, STAND, TUBER AND VINE CHARACTERISTICS, STEMS PER PLANT

No	Clone	Parents	Flower Color	Entered by	Use	Trial Year	Seed Source	Mean Stand %	Stems/Plant	Tuber				Vine			
										Means	Shape	Means	Skin	Means	Size	Means	Maturity
1	Ranger Russet	Butte A6595-3	Red-purple	Check	Dual	Check	OR	98	2.3	4.4	Long	3.4	Med Russet	2.8	Medium	2.7	Med Early
2	Russet Burbank	Early Rose ?	White	Check	Dual	Check	OR	97	2.6	4.0	Obl-Lng	3.4	Med Russet	2.3	Small	1.8	Early
3	Russet Norkotah	ND9687-5 Rus ND9526-4 Rus	White	Check	Fresh	Check	OR	97	3.0	3.7	Obl-Lng	4.2	Med Hvy Rus	1.7	Small	1.2	Early
4	Shepody		White	Check	Proc	Check	OR	95	1.8	3.3	Oblong	2.1	Light Russet	1.8	Small	2.6	Med Early
5	A06030-23	A99133-6 Premier Russet	White	ID	Dual	2	ID	96	2.8	3.7	Obl-Lng	4.2	Med Hvy Rus	2.2	Small	2.4	Early
6	A061070-3CSR	PA03NM5-3 Premier Russet	White	ID	Dual	2	OR	99	2.6	2.7	Oblong	3.7	Med Russet	2.6	Medium	2.6	Med Early
7	A06403-12	A96783-109LB PA03NM5-1	White	ID	Dual	1	ID	98	2.6	3.3	Oblong	3.2	Med Russet	3.1	Med-large	3.7	Med-late
8	A07061-6	Targhee Russet Clearwater Russet	Red-purple	ID	Dual	1	ID	98	3.0	3.0	Oblong	2.8	Light Russet	3.0	Medium	3.1	Medium
9	A07088-6	A02104-2 Dakota Trailblazer	White	ID	Dual	1	ID	98	2.7	3.1	Oblong	3.3	Med Russet	3.0	Medium	2.5	Early
10	A071012-4BF	A85331-7 A01054-4	White	ID	Dual	1	ID	99	2.5	3.5	Oblong	3.6	Med Russet	3.2	Med-large	3.7	Med-late
11	A08009-2TE	A00727-1 A02060-3TE	White	ID	Fresh	2	OR	99	3.0	3.7	Obl-Lng	3.9	Med Russet	3.0	Medium	3.5	Medium
12	A08422-2VRsto	A96953-13sto A02618-1adg	White	ID	Dual	1	ID	97	1.6	3.6	Obl-Lng	3.5	Med Russet	2.5	Small	2.4	Early
13	A10210-7TE	PA03NM5-1 A05035-2	White	ID	Dual	1	ID	99	3.3	3.4	Oblong	3.3	Med Russet	2.2	Small	2.5	Early
14	A10214-2TE	PA07V5-3 Stampede	Red-purple	ID	Dual	1	ID	96	2.2	2.5	Rnd-Obl	4.6	Heavy Rus	2.3	Small	2.0	Early
15	AOR06576-1	A00487-22LB A93575-4	White	OR	Dual	1	OR	97	2.3	3.9	Obl-Lng	3.4	Med Russet	3.3	Med-large	3.6	Med-late
16	AOR07781-5	PA92A08-17 PALB03035-6	White	OR	Dual	1	OR	99	3.0	3.9	Obl-Lng	4.2	Med Hvy Rus	2.8	Medium	2.2	Early
17	AOR07821-1	WHA4052-1 Clearwater Russet	Lav-Purple	OR	Proc	1	OR	97	2.4	3.6	Obl-Lng	3.8	Med Russet	3.2	Med-large	3.4	Medium
18	AOR08032-1	Targhee Russet Rio Grande Russet	Lav	OR	Dual	1	OR	99	2.7	3.5	Oblong	3.9	Med Russet	2.5	Small	2.5	Early

Numerical values are means of all trial locations.

1.0-2.0=Round, 2.1-2.5=Round-Oblong, 2.6-3.5=Blocky, 3.6-4.0=Oblong, 4.1-5.0=Long

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

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

1.0-2.5=Early, 2.6-3.0=Medium-Early, 3.1-3.5=Medium, 3.6-4.0= Medium-Late, 4.1-4.5=Late, 4.6-5.0=Very Late

TABLE 3: 2016 Tri-State 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	WA	Ont	Entry Mean	Rank	ID	WA	OR		Entry Mean	Rank
									Herm	KF		
1	Ranger Russet	312	481	496	430	13	411	847	672	480	603	6
2	Russet Burbank	323	504	554	460	7	373	817	508	490	547	13
3	Russet Norkotah	288	394	424	369	17	240	786	470	469	491	17
4	Shepody	341	549	-	445	11	-	-	-	-	-	-
5	A06030-23	299	340	443	361	18	317	724	542	404	497	16
6	A061070-3CSR	363	524	527	471	6	452	818	609	462	585	9
7	A06403-12	354	532	470	452	9	469	812	625	385	573	11
8	A07061-6	465	613	547	542	2	601	992	579	574	687	3
9	A07088-6	384	544	566	498	4	444	863	692	410	602	7
10	A071012-4BF	440	534	589	521	3	569	915	800	511	699	2
11	A08009-2TE	345	543	543	477	5	464	926	818	435	661	4
12	A08422-2VRsto	312	513	513	446	10	364	790	614	434	551	12
13	A10210-7TE	327	499	459	428	14	414	859	609	443	581	10
14	A10214-2TE	262	405	449	372	16	315	722	589	441	517	15
15	AOR06576-1	444	579	605	543	1	468	980	856	569	718	1
16	AOR07781-5	388	472	514	458	8	429	851	654	428	591	8
17	AOR07821-1	316	455	560	444	12	427	922	630	503	621	5
18	AOR08032-1	251	484	507	414	15	280	852	596	430	540	14
Location Means		345	498	516	452		414	852	639	463	592	
LSD (.05)											82	

TABLE 4: 2016. Tri-State Potato Variety Trial - YIELD OF U.S. #1'S (CWT/A & %) - EARLY AND LATE HARVEST

No.	Clone	U.S. No. 1's - Early Harvest (CWT/A)/%					U.S. No. 1's - Late Harvest (CWT/A)/%					
		ID	WA	Ont	Entry Mean	Rank	ID	WA	OR		Entry Mean	Rank
									Herm	KF		
1	Ranger Russet	232	463	344	346	13	317	819	531	376	511	6
		75	96	69	80	14	75	97	79	78	82	4
2	Russet Burbank	202	454	314	323	15	210	792	334	392	432	15
		62	90	57	70	18	55	97	66	80	75	16
3	Russet Norkotah	199	387	341	309	16	164	761	350	372	412	16
		70	98	81	83	8	67	97	75	79	80	9
4	Shepody	241	543		392	7	-	-	-	-	-	-
		71	99		85	5	-	-	-	-	-	-
5	A06030-23	232	326	358	305	17	223	678	412	315	407	17
		77	96	81	85	6	70	94	76	78	80	9
6	A061070-3CSR	298	438	436	391	8	350	784	474	396	501	8
		82	84	83	83	8	76	96	78	86	84	2
7	A06403-12	262	506	366	378	9	377	698	466	242	446	11
		73	95	78	82	12	80	86	74	63	76	12
8	A07061-6	387	609	428	475	1	486	961	258	445	538	4
		83	99	78	87	3	80	97	45	78	75	15
9	A07088-6	312	535	443	430	4	339	814	454	274	470	9
		81	98	78	86	4	76	94	66	67	76	12
10	A071012-4BF	380	531	490	467	2	465	882	602	340	572	1
		86	99	83	89	1	82	96	75	67	80	8
11	A08009-2TE	263	536	389	396	5	379	890	577	343	547	3
		76	99	72	82	10	82	96	71	79	82	6
12	A08422-2VRsto	250	503	429	394	6	326	761	456	322	466	10
		80	98	84	87	2	89	96	74	74	83	3
13	A10210-7TE	219	491	336	349	12	309	809	358	272	437	14
		66	98	73	79	16	74	94	59	61	72	17
14	A10214-2TE	207	389	311	302	18	266	709	465	341	445	12
		79	96	69	81	13	84	98	79	77	85	1
15	AOR06576-1	339	570	467	459	3	289	879	667	441	569	2
		76	99	77	84	7	55	92	78	77	76	14
16	AOR07781-5	272	466	370	369	10	342	829	541	301	503	7
		69	99	72	80	14	79	97	83	70	82	4
17	AOR07821-1	258	415	423	365	11	347	907	449	341	511	5
		80	91	76	82	10	81	98	71	68	80	9
18	AOR08032-1	167	435	408	337	14	226	835	365	352	445	13
		67	90	80	79	16	80	98	61	82	80	7
Location Means		262	478	391	377		319	812	456	345	483	
		75	96	76	82		76	95	71	74	79	
LSD (.05)											104	

TABLE 5: 2016 Tri-State Potato Variety Trial - YIELD > 10 OZ (CWT/A & %) - EARLY AND LATE HARVEST

No.	Clone	U.S. No. 1's > 10 OZ - Early Harvest (CWT/A)/%					U.S. No. 1's >10 OZ - Late Harvest (CWT/A)/%					
		ID	WA	Ont	Entry Mean	Rank	ID	WA	OR		Entry Mean	Rank
									Herm	KF		
1	Ranger Russet	143	185	204	177	3	200	368	242	159	242	1
		47	38	41	42	2	46	43	36	33	40	1
2	Russet Burbank	49	60	71	60	15	70	211	86	143	128	13
		15	12	13	13	15	18	26	17	29	23	12
3	Russet Norkotah	46	23	115	61	14	27	235	93	196	138	10
		17	6	27	17	13	11	30	20	42	26	8
4	Shepody	116	311	-	214	1	-	-	-	-	-	-
		35	57	-	46	1	-	-	-	-	-	-
5	A06030-23	59	45	98	67	13	53	148	90	85	94	16
		19	13	22	18	12	17	20	17	21	19	16
6	A061070-3CSR	156	163	220	180	2	242	266	149	152	202	6
		43	31	42	39	3	52	32	24	33	35	4
7	A06403-12	119	61	63	81	12	251	200	38	37	132	12
		33	12	13	19	11	54	25	6	10	24	11
8	A07061-6	184	105	157	149	6	300	338	16	127	195	7
		40	17	29	29	6	50	34	3	22	27	7
9	A07088-6	88	117	137	114	8	117	326	74	35	138	9
		23	21	24	23	9	26	38	11	9	21	14
10	A071012-4BF	173	82	226	160	4	333	346	207	56	236	3
		39	15	38	31	5	58	38	26	11	33	5
11	A08009-2TE	22	71	152	82	11	114	350	117	94	169	8
		6	13	28	16	14	24	38	14	22	25	10
12	A08422-2VRsto	44	59	182	95	10	81	303	87	70	135	11
		14	12	35	20	10	22	38	14	16	23	12
13	A10210-7TE	43	11	91	48	16	127	179	17	46	92	17
		13	2	20	12	17	31	21	3	10	16	17
14	A10214-2TE	66	11	42	40	18	104	113	115	156	122	14
		26	3	9	13	16	33	16	19	35	26	8
15	AOR06576-1	168	96	181	148	7	158	384	238	160	235	4
		38	17	30	28	7	29	39	28	28	31	6
16	AOR07781-5	72	77	178	109	9	180	270	205	159	204	5
		18	16	35	23	8	42	32	31	37	36	3
17	AOR07821-1	124	130	197	150	5	190	435	135	186	237	2
		35	28	35	33	4	44	47	21	37	37	2
18	AOR08032-1	10	20	113	48	17	72	224	20	126	111	15
		4	4	22	10	18	23	26	3	29	20	15
Location Means		93	90	143	110		154	276	113	117	165	
		26	18	27	24		34	32	17	25	27	
LSD (.05)											94	

TABLE 6: 2016 Tri-State Potato Variety Trial - YIELD < 4 OZ (CWT/A & %) - EARLY AND LATE HARVEST

No.	Clone	Yield < 4 OZ - Early Harvest (CWT/A)/%					Yield < 4 OZ - Late Harvest (CWT/A)/%					
		ID	WA	Ont	Entry Mean	Rank	ID	WA	OR		Entry Mean	Rank
									Herm	KF		
1	Ranger Russet	21	41	27	30	18	13	63	106	51	58	17
		7	8	5	7	18	3	7	16	11	9	17
2	Russet Burbank	73	85	62	73	5	48	111	124	49	83	9
		23	17	11	17	5	14	14	24	10	16	7
3	Russet Norkotah	80	91	43	71	6	55	91	96	54	74	13
		27	23	10	20	3	23	12	20	12	17	5
4	Shepody	30	30	-	30	17	-	-	-	-	-	-
		9	5	-	7	17	-	-	-	-	-	-
5	A06030-23	47	44	61	51	13	29	111	118	58	79	11
		16	13	14	14	8	9	15	22	14	15	8
6	A061070-3CSR	43	46	44	44	15	14	85	112	40	63	15
		12	9	8	10	15	3	10	18	9	10	16
7	A06403-12	36	79	67	61	9	15	89	147	102	88	7
		10	15	14	13	10	3	11	23	26	16	6
8	A07061-6	42	87	73	67	7	34	129	311	104	145	1
		9	14	13	12	11	6	13	54	18	23	2
9	A07088-6	49	99	79	76	4	46	75	173	120	104	5
		13	18	14	15	7	10	9	25	29	18	4
10	A071012-4BF	36	57	40	44	15	19	94	154	127	99	6
		8	11	7	9	16	3	10	19	25	14	11
11	A08009-2TE	70	123	61	85	2	48	121	221	41	108	3
		20	23	11	18	4	10	13	27	10	15	8
12	A08422-2VRsto	56	42	73	57	11	29	64	138	89	80	10
		18	8	14	13	9	8	8	22	20	15	10
13	A10210-7TE	73	131	65	90	1	28	165	236	129	140	2
		22	26	14	21	2	7	19	39	29	24	1
14	A10214-2TE	27	83	87	66	8	30	132	104	36	76	12
		10	20	19	16	6	9	18	18	8	13	12
15	AOR06576-1	32	87	56	58	10	46	81	151	64	86	8
		7	15	9	10	14	12	8	18	11	12	13
16	AOR07781-5	45	57	54	52	12	32	98	84	33	62	16
		12	12	10	11	12	8	12	13	8	10	15
17	AOR07821-1	31	56	49	45	14	31	60	136	40	67	14
		11	12	9	11	13	7	7	22	8	11	14
18	AOR08032-1	78	114	61	84	3	31	127	214	49	105	4
		30	24	12	22	1	12	15	36	11	19	3
Location Means		48	75	59	60		32	100	154	70	89	
		15	15	11	14		9	12	24	15	15	
LSD (.05)											47	

TABLE 7: 2016 Tri-State Potato Variety Trial - SPECIFIC GRAVITY - EARLY AND LATE HARVEST

No.	Clone	Specific Gravity - Early Harvest					Specific Gravity - Late Harvest					
		ID	WA	Ont	Entry Mean	Rank	ID	WA	Herm	KF	Entry Mean	Rank
1	Ranger Russet	1.090	1.097	1.091	1.094	9	1.089	1.082	1.065	1.098	1.084	10
2	Russet Burbank	1.081	1.089	1.082	1.085	18	1.078	1.088	1.069	1.092	1.082	13
3	Russet Norkotah	1.079	1.095	1.075	1.087	16	1.077	1.073	1.062	1.080	1.073	17
4	Shepody	1.084	1.095	-	1.090	12	-	-	-	-	-	-
5	A06030-23	1.095	1.098	1.087	1.097	6	1.088	1.084	1.070	1.097	1.085	6
6	A061070-3CSR	1.089	1.091	1.085	1.090	11	1.083	1.084	1.070	1.092	1.082	12
7	A06403-12	1.090	1.098	1.093	1.094	8	1.089	1.093	1.074	1.097	1.088	3
8	A07061-6	1.079	1.092	1.083	1.086	17	1.082	1.077	1.061	1.085	1.076	15
9	A07088-6	1.096	1.103	1.091	1.100	2	1.096	1.092	1.071	1.102	1.090	2
10	A071012-4BF	1.097	1.106	1.094	1.102	1	1.097	1.093	1.075	1.103	1.092	1
11	A08009-2TE	1.087	1.091	1.088	1.089	14	1.087	1.086	1.065	1.100	1.085	8
12	A08422-2VRsto	1.094	1.105	1.082	1.100	2	1.092	1.082	1.070	1.092	1.084	9
13	A10210-7TE	1.092	1.102	1.096	1.097	5	1.089	1.094	1.071	1.095	1.087	4
14	A10214-2TE	1.082	1.093	1.080	1.088	15	1.081	1.075	1.064	1.088	1.077	14
15	AOR06576-1	1.077	1.102	1.081	1.090	12	1.076	1.075	1.062	1.090	1.076	16
16	AOR07781-5	1.092	1.104	1.091	1.098	4	1.088	1.090	1.072	1.097	1.087	5
17	AOR07821-1	1.090	1.094	1.091	1.092	10	1.090	1.085	1.066	1.098	1.085	7
18	AOR08032-1	1.091	1.098	1.091	1.095	7	1.085	1.086	1.069	1.094	1.084	10
Location Means		1.088	1.097	1.087	1.093		1.086	1.085	1.068	1.094	1.083	
LSD (0.5)											0.004	

TABLE 9: 2016 Tri-State Potato Variety Trial - TUBERS PER PLANT AND EYE DEPTH

No.	Clone	Average Tuber per Plant							Eye Depth (1-5, 5=shallow)							
		Early		Late				Means	Early			Late				Entry
		ID	WA	ID	WA	Herm	KF	Late only	ID	WA	Herm	ID	WA	Herm	KF	Means
1	Ranger Russet	3.9	5.9	4.0	8.8	9.7	6.3	7.2	4.0	3.0	2.5	3.8	3.0	3.0	4.0	3.3
2	Russet Burbank	6.2	8.1	5.3	9.8	9.6	7.1	8.0	3.6	3.0	4.0	3.6	3.0	3.0	4.0	3.5
3	Russet Norkotah	5.6	7.3	5.0	9.0	7.7	5.8	6.9	3.9	3.0	3.5	4.0	3.0	3.5	4.0	3.6
4	Shepody	4.5	5.7	-	-	-	-	-	4.0	4.0	-	-	-	-	-	4.0
5	A06030-23	4.8	5.4	4.6	9.5	9.1	6.2	7.4	4.4	3.0	3.5	4.1	2.8	3.5	3.9	3.6
6	A061070-3CSR	4.3	6.6	4.1	8.9	9.8	5.7	7.1	3.8	4.0	3.5	3.6	3.0	3.6	3.5	3.6
7	A06403-12	4.6	8.5	4.4	9.3	11.6	7.2	8.1	4.1	4.0	5.0	3.8	3.5	3.9	3.3	3.9
8	A07061-6	6.3	9.8	6.6	11.6	15.8	9.2	10.8	3.6	4.0	4.0	3.6	4.0	3.8	3.9	3.8
9	A07088-6	6.0	9.0	6.2	8.9	12.5	8.7	9.1	4.1	4.0	5.0	4.0	4.0	3.8	3.8	4.1
10	A071012-4BF	5.8	7.8	5.0	9.5	12.1	9.2	9.0	3.8	4.0	4.0	3.4	3.0	3.1	3.6	3.6
11	A08009-2TE	6.7	10.0	7.0	10.4	15.1	6.1	9.7	4.1	4.0	3.5	4.3	4.0	3.9	3.9	4.0
12	A08422-2VRsto	5.3	7.3	5.0	8.3	10.6	7.2	7.8	3.9	4.0	3.0	3.9	2.5	3.3	3.8	3.5
13	A10210-7TE	5.7	9.9	5.2	11.4	13.5	8.6	9.7	4.3	4.0	4.5	3.9	3.0	3.5	3.8	3.9
14	A10214-2TE	4.0	7.2	4.4	9.7	9.2	5.0	7.1	4.3	4.0	4.5	4.0	3.0	3.9	3.8	3.9
15	AOR06576-1	5.8	9.3	6.1	10.0	13.6	7.5	9.3	3.8	4.0	4.5	4.3	4.0	3.6	3.4	3.9
16	AOR07781-5	5.3	6.8	5.4	9.5	8.8	4.7	7.1	3.8	3.7	2.0	3.6	3.0	3.1	3.6	3.3
17	AOR07821-1	4.2	6.0	5.1	8.4	10.9	5.5	7.5	3.8	4.0	4.0	4.3	3.0	4.0	4.3	3.9
18	AOR08032-1	5.7	8.2	4.3	10.5	12.3	6.1	8.3	4.0	4.0	2.5	3.8	4.0	3.1	4.0	3.6
Location Means		5.3	7.7	5.2	9.6	11.3	6.8	8.2	4.0	3.8	3.8	3.9	3.3	3.5	3.8	3.7

TABLE 10: 2016 Tri-State Potato Variety Trial - TUBER DISCRIPTORS

No. Clone	Tuber Uniformity ¹								Shatter ¹						Greening ¹							
	Early			Late				Entry	Early			Late		Entry	Early			Late			Entry	
	ID	WA	Ont	ID	WA	Herm	KF	Means	ID	WA	Herm	ID	KF	Means	ID	WA	Herm	ID	WA	Herm	KF	Means
1 Ranger Russet	2.8	3.0	3.8	3.8	3.0	3.0	3.1	3.2	4.5	5.0	3.3	4.6	5.0	4.5	4.8	5.0	5.0	4.6	4.0	4.8	3.9	4.6
2 Russet Burbank	2.8	2.3	2.3	2.8	3.0	2.3	3.5	2.7	4.3	5.0	3.5	4.5	5.0	4.5	4.9	5.0	5.0	4.3	4.0	4.9	4.3	4.6
3 Russet Norkotah	4.0	4.0	4.3	4.0	3.8	3.8	4.1	4.0	4.8	5.0	3.8	5.0	5.0	4.7	4.9	5.0	5.0	4.9	4.0	4.9	3.5	4.6
4 Shepody	3.5	2.0	-	-	-	-	-	2.8	4.4	4.0	-	-	-	4.2	3.6	4.0	-	-	-	-	-	3.8
5 A06030-23	4.0	3.5	4.3	3.1	3.0	3.5	3.9	3.6	4.4	5.0	4.0	4.4	5.0	4.6	4.9	5.0	5.0	4.5	4.0	5.0	4.5	4.7
6 A061070-3CSR	2.4	1.0	4.0	2.6	3.0	3.3	3.6	2.8	3.5	2.0	3.5	4.3	5.0	3.7	4.5	5.0	5.0	4.6	4.0	4.9	5.0	4.7
7 A06403-12	3.0	3.0	4.5	3.6	3.3	3.8	3.3	3.5	3.6	3.0	3.5	3.6	5.0	3.8	3.3	5.0	5.0	3.9	2.0	5.0	4.0	4.0
8 A07061-6	3.6	2.0	3.5	3.6	2.5	3.4	3.4	3.1	4.4	3.0	4.3	3.9	4.9	4.1	4.1	5.0	5.0	3.3	4.0	4.9	5.0	4.5
9 A07088-6	3.5	2.7	3.8	3.4	2.8	2.8	3.1	3.1	4.3	4.0	4.0	4.6	5.0	4.4	4.8	5.0	5.0	4.4	4.0	4.9	3.8	4.5
10 A071012-4BF	3.6	3.0	3.5	3.5	3.0	3.3	3.4	3.3	4.6	5.0	3.5	4.4	5.0	4.5	4.3	5.0	5.0	4.4	4.0	4.9	4.4	4.6
11 A08009-2TE	3.6	3.3	3.8	2.3	2.8	3.5	3.1	3.2	4.8	4.0	4.3	4.8	5.0	4.6	4.6	5.0	5.0	4.6	5.0	4.8	3.9	4.7
12 A08422-2VRsto	3.9	3.3	4.3	4.3	3.0	3.4	3.5	3.7	4.8	4.0	3.3	4.6	5.0	4.3	4.8	5.0	5.0	4.9	4.0	4.8	4.3	4.7
13 A10210-7TE	3.3	3.0	3.8	3.9	2.3	3.4	3.6	3.3	4.8	4.0	4.0	4.8	5.0	4.5	4.6	5.0	5.0	4.5	3.0	4.9	4.4	4.5
14 A10214-2TE	2.8	3.3	3.5	3.6	3.0	3.5	3.8	3.4	4.1	4.0	3.8	4.4	5.0	4.3	4.8	5.0	5.0	4.8	4.0	4.9	4.3	4.7
15 AOR06576-1	3.0	3.3	2.8	3.3	2.3	3.1	3.9	3.1	4.3	5.0	3.3	4.1	5.0	4.3	3.4	5.0	5.0	4.0	4.0	4.1	4.9	4.3
16 AOR07781-5	3.3	3.3	2.8	2.9	3.8	3.4	3.8	3.3	4.3	4.0	3.3	4.6	5.0	4.2	4.5	5.0	5.0	4.3	4.0	4.9	4.0	4.5
17 AOR07821-1	3.4	2.7	3.3	4.1	2.3	3.4	3.3	3.2	4.8	4.0	4.5	4.6	5.0	4.6	3.9	5.0	5.0	4.1	4.0	5.0	3.9	4.4
18 AOR08032-1	4.0	3.7	3.8	4.0	3.5	3.5	3.4	3.7	4.6	3.0	4.3	4.8	5.0	4.3	4.9	5.0	5.0	4.8	4.0	4.8	4.8	4.7
Location Means	3.3	2.9	3.6	3.4	2.9	3.3	3.5	3.3	4.4	4.1	3.8	4.5	5.0	4.3	4.4	4.9	5.0	4.4	3.9	4.8	4.3	4.5

¹ Score 1-5, with 5=Best.

TABLE 11: 2016 Tri-State Potato Variety Trial - EXTERNAL DEFECTS - GROWTH CRACKS, SECOND GROWTH,
SHATTER BRUISE, SCAB - MEANS OF LOCATIONS

No.	Clone	Growth Cracks ¹		Second Growth ¹		Shatter Bruise ¹				Scab ¹	
		Early	Late	Early	Late	EWA	Late	AB ²	KF ³	Early	Late
1	Ranger Russet	4.2	4.3	4.8	4.1	5.0	4.3	2.9	5.0	4.9	4.9
2	Russet Burbank	4.1	4.3	3.9	3.6	5.0	4.0	2.6	2.5	4.8	4.9
3	Russet Norkotah	4.8	4.6	5.0	4.9	5.0	4.3	3.1	2.5	4.9	4.5
4	Shepody	4.9	-	4.6	-	4.0	-	-	-	4.4	-
5	A06030-23	4.5	4.1	5.0	4.8	5.0	4.3	2.7	7.5	4.9	4.8
6	A061070-3CSR	4.5	4.1	4.9	4.6	2.0	3.4	2.3	10.0	5.0	4.9
7	A06403-12	4.6	4.4	4.9	4.6	3.0	3.5	2.0	2.5	5.0	4.9
8	A07061-6	4.6	4.7	5.0	4.8	3.0	3.8	2.3	7.5	4.9	5.0
9	A07088-6	4.5	3.8	5.0	4.3	4.0	3.4	3.1	5.0	4.5	4.8
10	A071012-4BF	4.8	4.7	4.9	4.2	5.0	3.6	2.9	7.5	4.7	4.8
11	A08009-2TE	4.8	4.7	5.0	4.8	4.0	3.9	2.8	0.0	5.0	4.8
12	A08422-2VRsto	4.8	4.8	5.0	4.9	4.0	3.8	2.6	5.0	5.0	4.9
13	A10210-7TE	4.3	3.9	5.0	4.6	4.0	3.5	2.2	2.5	4.8	4.0
14	A10214-2TE	3.5	4.6	5.0	4.8	4.0	3.2	2.7	2.5	4.5	4.3
15	AOR06576-1	4.3	4.3	4.9	4.0	5.0	4.2	2.5	7.5	4.8	4.9
16	AOR07781-5	4.4	4.7	4.9	4.7	4.0	3.5	2.5	2.5	5.0	5.0
17	AOR07821-1	4.5	4.6	4.6	4.6	4.0	3.5	2.4	7.5	4.8	4.8
18	AOR08032-1	4.8	4.7	5.0	5.0	3.0	3.9	2.5	2.5	4.9	4.5
Means		4.5	4.4	4.9	4.6	4.1	3.8	2.6	4.7	4.8	4.7

¹ Score 1-5, with 1=severe, 5=none.

² Aberdeen shatter scores obtained from bruise evaluation conducted using a shatter chamber [1-5(none)].

³ Percent Impact Bruise.

TABLE 12: 2016 Tri-State Potato Variety Trial - INTERNAL DEFECTS - HOLLOW HEART PLUS BROWN CENTER, INTERNAL BROWN SPOT, VASCULAR DISCOLORATION/NET NECROSIS, BLACKSPOT - MEANS OF LOCATIONS

No.	Clone	Percent Hollow Heart plus Brown Center		Percent Internal Brown Spot		Percent Vascular Discoloration		Blackspot Bruise Washington ²			
		Early	Late	Early	Late	Early	Late	Early	Late	Herm ³	AB ⁴
1	Ranger Russet	0.0	0.0	0.0	0.0	-n/a-	2.5	3.0	2.0	4.3	2.0
2	Russet Burbank	7.5	3.3	0.0	2.3	-n/a-	12.5	3.0	3.0	4.5	2.3
3	Russet Norkotah	3.3	3.1	0.0	1.3	-n/a-	0.8	5.0	4.0	4.0	2.2
4	Shepody	0.0	-	1.7	-	-n/a-	-	4.0	-	-	
5	A06030-23	2.3	0.0	0.0	0.0	-n/a-	4.2	3.0	2.0	4.3	2.5
6	A061070-3CSR	0.0	0.0	0.0	0.6	-n/a-	3.3	3.0	5.0	4.5	2.3
7	A06403-12	0.0	0.0	0.0	0.0	-n/a-	6.7	4.0	3.0	4.3	2.3
8	A07061-6	0.0	0.6	0.0	0.0	-n/a-	4.2	4.0	4.0	4.3	2.0
9	A07088-6	0.8	0.0	0.0	0.0	-n/a-	5.0	4.0	5.0	4.3	3.2
10	A071012-4BF	0.8	0.0	0.0	0.0	-n/a-	0.8	4.0	3.0	4.4	2.5
11	A08009-2TE	0.0	0.0	0.8	3.8	-n/a-	16.7	3.0	3.0	4.4	3.3
12	A08422-2VRsto	1.1	4.5	0.0	3.3	-n/a-	3.3	5.0	5.0	3.8	1.8
13	A10210-7TE	0.0	0.0	0.0	0.0	-n/a-	2.5	5.0	2.0	4.5	1.9
14	A10214-2TE	0.8	0.0	0.0	0.0	-n/a-	3.3	5.0	5.0	3.9	1.6
15	AOR06576-1	0.0	0.0	0.0	0.0	-n/a-	1.7	5.0	5.0	4.5	3.5
16	AOR07781-5	0.0	0.0	0.0	0.0	-n/a-	1.7	4.0	3.0	3.4	3.7
17	AOR07821-1	1.7	0.0	0.0	0.0	-n/a-	2.5	4.0	4.0	3.9	3.6
18	AOR08032-1	1.1	0.0	0.0	1.3	-n/a-	6.7	5.0	5.0	4.5	4.2
Means		1.1	0.7	0.1	0.7		4.6	4.1	3.7	4.2	2.6

¹ Rating of Stem-end Browning + VD

² Score 1-5, with 1=severe, 5=none.

³ Oregon is percentage of tuber showing impact bruising.

⁴ Aberdeen blackspot scores from an abrasive peel test [1-5(none)].

TABLE 13: 2016 Tri-State Potato Variety Trial - FRENCH FRY COLOR (00-4.0(darkest)), AND PERCENT SUGAR ENDS

No.	Clone	Fry 44 or 45 ⁰						Fry 40 ⁰				% Sugar Ends		
		ID ¹	WA ²	Herm ⁴	All Entries		Postharvest 3 state avg. ³	ID ¹	WA ²	Mean	Postharvest 3 state avg. ³	ID	HRM	Entry Mean
					Mean	Rank								
1	Ranger Russet	0.5	0.0	1.5	0.7	8	0.0	2.8	3.0	2.9	2.3	75	8	42
2	Russet Burbank	0.5	1.0	1.4	1.0	13	0.7	4.0	4.0	4.0	3.3	50	4	27
3	Russet Norkotah	0.8		1.6	1.2	15		3.9		3.9		50	8	29
5	A06030-23	0.3	0.0	0.5	0.3	3	0.0	1.5	0.0	0.7	0.7	17	8	13
6	A061070-3CSR	0.3	0.0	1.0	0.4	7	0.0	1.5	1.0	1.2	1.0	33	8	21
7	A06403-12	0.8	0.0	1.9	0.9	10	0.7	3.4	4.0	3.7	3.0	67	21	44
8	A07061-6	0.5	0.0	0.7	0.4	6	0.0	1.8	3.0	2.4	1.7	53	0	27
9	A07088-6	0.6	0.0	0.3	0.3	4	0.0	1.4	2.0	1.7	1.0	92	21	56
10	A071012-4BF	0.5	1.0	1.3	0.9	11	1.0	2.5	3.0	2.8	2.7	96	0	48
11	A08009-2TE	0.9		2.1	1.5	16		3.5				75	13	44
12	A08422-2VRsto	0.8	1.0	1.6	1.1	14	1.0	2.8	3.0	2.9	3.0	88	8	48
13	A10210-7TE	0.4	1.0	1.4	1.0	12	1.0	2.9	3.0	2.9	2.7	54	8	31
14	A10214-2TE	0.3	0.0	0.5	0.3	2	0.0	0.9	1.0	1.0	1.3	4	0	2
15	AOR06576-1	0.6	2.0	2.1	1.6	17	2.3	4.0	4.0	4.0	4.0	88	17	52
16	AOR07781-5	0.3	0.0	0.4	0.2	1	0.0	1.5	1.0	1.3	0.7	54	17	35
17	AOR07821-1	1.6	0.0	1.0	0.9	9	0.0	2.0	2.0	2.0	2.0	100	0	50
18	AOR08032-1	0.3	0.0	0.9	0.4	5	0.0	1.8	2.0	1.9	1.7	50	13	31
Location Means		0.6	0.4	1.2	0.8		0.4	2.5	2.4	2.5	2.1	61	9	35.3

¹ Samples held for 7 week cool down period - 8 weeks at storage temperature.

² Samples held for 60 days at 44 or 40°F

³ Three state average processed at Washington - For complete postharvest results see <http://www.potatoes.wsu.edu/>

⁴ Samples held for 6 week cool down period - 9 weeks at storage temperature.

TABLE 14: 2016 Tri-State Potato Variety Trial - DISEASE EVALUATIONS, METRIBUZIN REACTION

No. Clone	Vert. Wilt/ Early Dying		Early Blight			Late Blight			Common Scab		% NN/ VD ¹		Rhizoc.	Corky	Pecto- bacterium	Metr.			
	AB ¹		HERM		AB ¹			CORV ²		AB ¹		AB		KF ³	Ringspot	Soft Rot	Reaction		
	(0-9)*	AUDPC	(0-9)*	AUDPC	(0-9)*	AUDPC	Foliar	Tuber	%	Incid.	% Ser.	Incid.	% Ser.	(1-5= none) ³	Incid.	0-5 ¹	AB ⁴		
										(%)	Defect	(%)	Defect		%				
1 Ranger Russet	6.3	426	4.7	235	3.0	40	5	0	8.8	1243	37.5	26.7	11.0	78	0	4.8	7.5	1.7	R
2 Russet Burbank	8.3	922	5.3	333	3.0	48	0	0	9.0	1281	40.0	7.2	2.3	76	12	4.5	0.0	3.4	R
3 Russet Norkotah	9.0	1243	8.7	1058	3.5	69	0	0	9.0	1352	62.5	9.4	3.4	76	2	4.8	0.0	2.6	MR
4 Shepody	7.0	519	--	--	4.3	85	0	0	9.0	1319	70.0	24.0	12.9	36	5	5.0	5.0	1.9	VS
5 A06030-23	7.3	618	7.3	1077	4.3	96	6	0	9.0	1355	50.0	3.8	1.9	57	0	5.0	0.0	3.7	MR
6 A061070-3CSR	4.7	106	7.7	819	2.7	43	5	0	5.5	643	32.5	33.2	18.5	82	0	4.8	0.0	2.3	R
7 A06403-12	2.3	25	4.7	227	2.3	22	11	2	8.8	1278	45.0	13.9	4.4	48	0	4.5	0.0	2.2	MR
8 A07061-6	4.3	130	6.0	449	3.0	33	12	4	8.3	1176	35.0	26.3	12.8	57	0	5.0	0.0	1.0	MS
9 A07088-6	6.7	426	6.7	494	2.3	28	2	0	9.0	1342	57.5	16.8	8.2	63	0	4.8	0.0	3.2	MS
10 A071012-4BF	4.0	95	2.3	59	3.0	34	0	0	8.0	1173	70.0	13.7	6.3	58	0	4.8	0.0	2.3	MR
11 A08009-2TE	4.0	85	6.7	484	2.7	37	0	0	9.0	1334	37.5	26.1	8.2	70	0	3.9	2.5	0.9	R
12 A08422-2VRsto	7.0	426	7.3	740	5.0	175	2	0	9.0	1349	75.0	14.4	9.2	27	0	4.4	17.5	2.1	R
13 A10210-7TE	7.0	399	5.0	274	3.3	70	0	0	8.8	1322	65.0	14.9	3.9	54	3	4.6	0.0	0.4	R
14 A10214-2TE	8.0	869	7.7	826	3.7	104	0	0	9.0	1360	40.0	74.0	30.1	39	0	4.4	0.0	4.5	MR
15 AOR06576-1	4.7	118	5.0	322	2.3	25	2	0	9.0	1331	45.0	3.0	1.0	51	5	4.9	2.5	0.8	MS
16 AOR07781-5	6.0	344	7.0	647	2.7	29	0	0	6.8	989	47.5	4.5	3.0	55	0	4.6	0.0	3.5	MR
17 AOR07821-1	4.3	137	4.0	182	2.7	32	0	0	8.8	1306	22.5	12.3	0.0	54	0	4.9	5.0	0.9	MS
18 AOR08032-1	6.3	333	7.0	551	6.0	392	0	0	7.5	1096	7.5	10.9	4.8	77	4	-	-	1.5	MR
MEANS	6.0	401	6.1	516	3.3	75.6	2.5	0.3	8.4	1236	46.7	18.6	7.9	59	2	4.7	2.4	2.2	
LSD @ .05	1.2				1.2		6	ns	1.0	126	42.3	27.0	13.1	25.0	10.0			2.1	

* 117 days after planting

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.

Early Blight and Vert. Wilt AUDPC: Area Under the Disease Progress Curve based on foliar readings taken on 3 separate readings 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.

Net necrosis data from PLRV-infected plots. For 0 to 5: 0=none, 5=severe as a combination of tuber area and degree impacted by Pectobacterium inoculations.

² Evaluations made at Corvallis, Oregon by Solomon Yilma; 1=no foliar injury; 3=5-10%; 5=25-40%; 7=60-75%; 8=75-90%; 9=90-100%.

Late blight AUDPC=area under the disease progress curve. Higher number indicates more disease over time; % of tubers examined with any late blight symptoms.

³ *Rhizoctonia solani* readings made by Brian Charlton, Klamath Falls, Oregon; scale as indicated with lowest number being most severe

⁴ Metribuzin Reaction measured at Aberdeen, ID. VR=very resistant R=Resistant MR=moderately resistant MS=moderately susceptible S=susceptible VS=very susceptible

TABLE 15: Solids, Dextrose and Sucrose, Protein, Vitamin C and Glycoalkaloids
- Tubers Grown at Aberdeen, Idaho

No.	Clone	Solids Oven Dry (%)	Sugars		Protein (%DWB)	Vitamin C (mg/100g FWB)	Glycoalkaloids (mg/100gFWB)
			Dextrose (%FWB)	Sucrose (%FWB)			
1	Ranger Russet	23.25	0.085	0.200	5.50	35.20	5.33
2	Russet Burbank	20.80	0.093	0.195	5.00	25.00	3.19
3	Russet Norkotah	19.66	0.115	0.148	4.91	23.70	1.62
5	A06030-23	23.24	0.035	0.245	5.53	25.23	14.71
6	A061070-3CSR	21.93	0.069	0.269	5.92	22.75	7.18
7	A06403-12	24.06	0.141	0.248	6.35	27.45	5.22
8	A07061-6	20.96	0.087	0.164	6.10	29.53	4.22
9	A07088-6	23.34	0.053	0.363	7.48	22.52	2.12
10	A071012-4BF	24.78	0.072	0.300	5.98	21.20	6.65
11	A08009-2TE	21.68	0.199	0.187	6.00	29.80	3.02
12	A08422-2VRsto	23.22	0.083	0.169	6.04	30.15	6.68
13	A10210-7TE	22.17	0.161	0.222	6.60	23.78	1.89
14	A10214-2TE	21.57	0.015	0.167	6.23	24.43	1.74
15	AOR06576-1	20.80	0.210	0.366	6.57	23.23	3.43
16	AOR07781-5	23.38	0.038	0.167	6.25	19.73	7.22
17	AOR07821-1	22.91	0.165	0.285	5.44	23.55	4.28
18	AOR08032-1	22.99	0.074	0.251	6.25	42.05	2.12
Means		22.4	0.100	0.232	6.01	26.4	4.7

FWB = fresh weight basis DWB = dry weight basis

Glycoalkaloids: The 2016 Lenape check from Aberdeen was 19.82 mg/100g

TABLE 16: 2016 Tri-State Potato Variety Trial - MERIT SCORES (1-5(best))

No.	Clone	Process						Postharvest Merit * 3 State Avg.	Fresh							
		Early WA	ID	WA	Herm	LATE MEANS	RANK		Early ID	WA	Late ID	WA	Herm	KF	LATE MEANS	RANK
1	Ranger Russet	2.7	2.5	3.8	2.8	3.0	5	28.5	2.0	2.2	2.8	2.7	2.9	2.0	2.6	9
2	Russet Burbank	2.6	2.0	3.1	2.3	2.5	14	21.4	2.4	0.9	2.0	1.2	2.2	3.0	2.1	16
3	Russet Norkotah	2.0	2.0		2.9	2.4	16		3.6	1.6	3.9	2.9	3.3	4.0	3.5	1
4	Shepody	4.3	-	-	-	-	-		2.1	-	-	-	-	-	-	-
5	A06030-23	1.3	4.0	1.7	3.8	3.2	2	29.5	3.9	0.5	2.8	0.8	3.5	4.0	2.8	6
6	A061070-3CSR	1.8	4.0	1.3	3.2	2.8	7	27.3	2.0	1.3	2.1	1.3	2.8	2.0	2.1	17
7	A06403-12	2.3	2.0	2.8	3.7	2.8	8	20.9	2.4	1.3	2.8	1.0	3.5	2.0	2.3	12
8	A07061-6	3.2	3.5	1.3	2.2	2.3	17	24.4	3.3	2.1	3.3	2.1	2.1	2.0	2.4	11
9	A07088-6	2.4	3.0	1.6	2.8	2.5	15	23.9	3.5	1.5	3.3	1.7	2.6	1.5	2.3	13
10	A071012-4BF	3.0	2.5	3.0	3.6	3.0	4	18.5	3.6	1.5	3.3	1.7	3.3	1.5	2.5	10
11	A08009-2TE	3.5	2.0		3.1	2.5	13		3.5	2.3	2.9	3.0	3.5	2.5	3.0	4
12	A08422-2VRsto	3.0	2.5	2.9	3.4	2.9	6	22.2	4.0	1.9	4.3	1.3	3.4	2.0	2.7	7
13	A10210-7TE	1.2	3.0	1.7	3.4	2.7	9	23.5	2.5	0.8	3.3	0.7	3.1	1.5	2.1	14
14	A10214-2TE	2.2	4.5	0.7	2.8	2.7	12	25.4	2.1	1.3	3.3	0.4	2.8	2.0	2.1	15
15	AOR06576-1	3.3	1.5	3.3	3.2	2.7	11	14.9	2.6	3.1	2.8	2.4	3.6	2.0	2.7	8
16	AOR07781-5	2.5	3.0	4.0	3.8	3.6	1	30.9	3.4	2.3	2.6	3.0	3.7	2.5	3.0	5
17	AOR07821-1	2.9	2.5	1.8	3.8	2.7	10	24.9	3.0	1.7	4.3	1.9	3.7	3.0	3.2	2
18	AOR08032-1	1.9	3.5	2.8	2.9	3.1	3	27.3	4.1	1.1	3.9	2.2	3.0	3.5	3.1	3
Location Means		2.6	2.8	2.4	3.1	2.8			3.0	1.6	3.1	1.8	3.1	2.4	2.6	

* For Complete information and procedures see Washington at www.potatoes.wsu.edu/

TABLE 17: 2016 Tri-State Potato Variety Trial - SUMMARY

Clone	Year in Trial	Use	Yield Late	% US#1's	Tuber Size	Specific Gravity	45 Fry Color	P F	Merit Score	Comments	Dis
1 Ranger Russet	Check	Dual	603	511 82	7.5	1.084	0.7	3.0 2.6			
2 Russet Burbank	Check	Dual	547	432 75	5.9	Small	1.082	1.0	2.5 2.1		
3 Russet Norkotah	Check	Fresh	491	412 80	5.8		1.073	Low	1.2	2.4 3.5	High
5 A06030-23	2	Dual	497	407 80	5.7	Small	1.085	0.3	Good	3.2 2.8	Glycoalkaloids
6 A061070-3CSR	2	Dual	585	501 84	7.4		1.082	0.4		2.8 2.1	
7 A06403-12	1	Dual	573	446 76	6.7		1.088	0.9		2.8 2.3	
8 A07061-6	1	Dual	687	538 75	5.9		1.076	0.4		2.3 2.4	
9 A07088-6	1	Dual	602	470 76	5.9		1.090	0.3	Good	2.5 2.3	
10 A071012-4BF	1	Dual	699	572 80	7.3		1.092	0.9		3.0 2.5	
11 A08009-2TE	2	Fresh	661	547 82	6.0		1.085	1.5		2.5 3.0	Vascular Discolorations
12 A08422-2VRsto	1	Dual	551	466 83	6.2		1.084	1.1		2.9 2.7	
13 A10210-7TE	1	Dual	581	437 72	5.5	Small	1.087	1.0		2.7 2.1	
14 A10214-2TE	1	Dual	517	445 85	6.4		1.077	0.3	Good	2.7 2.1	Low
15 AOR06576-1	1	Dual	718	High 569 76	6.7		1.076	1.6		2.7 2.7	
16 AOR07781-5	1	Dual	591	503 82	7.1		1.087	0.2	Good	3.6 3.0	High
17 AOR07821-1	1	Proc	621	511 80	7.5		1.085	0.9		2.7 3.2	
18 AOR08032-1	1	Dual	540	445 80	5.7	Small	1.084	0.4		3.1 3.1	

TABLE 18: 2016 Tri-State Potato Variety Trial - COMMENTS BY STATE

Entry	Clone	Early Idaho	Late Idaho	Late Hermiston	Klamath Falls
1	Ranger Russet	misshapen (2), bumps (2)	curves (3), few misshapen (2)	x2 db, x4 knobs, x2 looks good, x2 flat, x2 curvy	long x2, typy x2, crooks x2,
2	Russet Burbank	knobs (3), points (3), bumps (2), misshapen (2)	misshapen/knobs/points	x2 curvy, x3 db, x3 bottle, x2 pointy, x2 rot, x2 knobs	growth cracks, not bad, misshaped x3
3	Russet Norkotah	uniform (2), good shape (2), some points/flat ends	few misshapen (3), good shape, curves	x4 typy, x2 rot, low y, scab	typy, dark x2, nice
4	Shepody	Patchy (3) some misshapen (3), green (2), flat (2)	checking (3), some misshapen (2), growth crack		typy, nice, fresh potential
5	A06030-23	some checking (2), bright eye (2), nice blocky shape	checking/brow (3), some misshapen/not uniform (2)	x2 heavy russet, x3 pr. Eyes, x3 short	Plump, round, short, x3 fresh potential, TNC
6	A061070-3CSR	few misshapen/slight brow (2), some shatter/growth crack	blocky (3), few misshapen (3)	x3 rot, x2 cracks, x2 db	Process only, short, typy x1, small
7	A06403-12	green (2), misshapen (2), shatter (2)	brow/green (2) patchy russetting	x3 lenticels, x4 typy, x2 FBE, x2 knobs	typy, process only, shepody look alike, lent scaring x 2
8	A07061-6	some patchy (2), few bumps/curves (2), slight brow (2)	some misshapen/ats (2), blocky/slight brow	x2 pixel, x4 sprouting, x2 short, x2 round	flat, small but typy
9	A07088-6	few misshapen (2), slight checking, few bulging eyes	some bulging eyes/brows some ats (2)	x4 pointy, x3 bottle, tip curve, x2 tip GC	round, small, some MS
10	A071012-4BF	slight brow/some misshapen (3), flaky skin/few ats (2)	not uniform shape (4), few ats/curves (2)	x2 knobs, x2 db, x2 sticky, x2 curvy	fresh potential, typy, long skinny, green ends
11	A08009-2TE	fairly uniform/good shape, few misshapen	few ats (3) good shape/flaking skin/blocky	x2 flaky, x2 sprouting, patchy, lenticels	TNC x2 , small but typy x 3
12	A08422-2VRsto	few ats (3), slight brow/good shape/some flaking skin (2)	few misshapen, slight checking, few ats	x4 cracked skin, x2 typy, x2 sticky, x2 flaky	small, GC, not fresh, irregular size
13	A10210-7TE	misshapen (3), bumps (2) blocky, some checking	checking (3), some blocky/round few misshapen (2)	x3 short, deep eyes, deep bud end	dark, plump, low yield, sticky stolon, no eyes
14	A10214-2TE	checking (4), not uniform/growth crack (2)	not uniform, points, big	x2 rot, x2 heavy russet, x2 flat, x2 cracked	sticky stolon x 2, irregular size x 2, plump
15	AOR06576-1	green/some ats/misshapen (2)	not uniform/some checking (2) curved/points	x4 sprouting, x2 early, x2 chain, x3 knobs	MS x 3, dents, fresh potential, bulgy eyes
16	AOR07781-5	bright eyes (3), some curves/bumps/points (2)	curves/slight checking (2)	x2 pointy, x2 bottle, heavy russet, x2 deep eyes, x2 curvy	fresh potential, blocky, green and popeyed x1, MS x2
17	AOR07821-1	some checking/curves/bumps	slight brow, crooked ends, small	x3 alligator skin, x3 sticky, x2 curvy, x2 bottle	typy, fresh potential, lenticel scaring, sticky stolon x 2
18	AOR08032-1	nice shape (2), blocky (2), some points (2)	Nice Shape, Bumps, Green	x2 deep eyes, x3 sticky, x4 short, x2 pixel	typy x3,nice, dark, thumbnail cracks, irregular size

TABLE 19: 2016 Tri-State Harvest Potato Variety Trials - WASHINGTON STATE POSTHARVEST EVALUATIONS

Entry	Clone	Comments from Washington Early Trial	Carton Yield		Process Yield	
			100-50 count (US 1's 7-18 oz) % of Total Yield	Tons/A	US 1's and 2's > 6 oz % of Total Yield	Tons/A
1	Ranger Russet	Mostly ttypy, some irregular shapes	66	16	75	18
2	Russet Burbank	Smaller, shapes a bit irregular.	37	9	51	13
3	Russet Norkotah	Small and ttypy.	30	6	38	8
4	Shepody	Irregular shapes, light skin.	63	17	84	23
5	A06030-23	Small, dark russet, bad rhizoc.	45	8	61	10
6	A061070-3CSR	Mostly round, growth cracks, DISCARD.	54	14	59	16
7	A06403-12	Small, not early, ugly skin.	39	10	53	14
8	A07061-6	Light skin, small, round.	44	14	62	19
9	A07088-6	Irregular shapes, small, not early.	37	10	53	15
10	A071012-4BF	Not Early! Small, some round, bad skin.	44	12	64	17
11	A08009-2TE	Smaller, short, but some ttypy.	36	10	51	14
12	A08422-2VRsto	Small, short, some round.	54	14	71	18
13	A10210-7TE	Not early, bad skin, a bit short.	22	6	35	9
14	A10214-2TE	Not early, small, some ttypy.	36	7	48	10
15	AOR06576-1	Not early, small, ugly.	45	13	57	17
16	AOR07781-5	Mostly ttypy, some irregular shapes.	48	11	64	15
17	AOR07821-1	Irregular shapes, bad skin!	54	12	65	15
18	AOR08032-1	Not early, small, pears.	33	8	48	12

Entry	Clone	Comments from Washington Late Trial				
1	Ranger Russet	Large, long, mostly ttypy.	62	27	77	33
2	Russet Burbank	Non uniform shape, but not bad.	51	21	65	26
3	Russet Norkotah	Good length, ttypy.	54	21	67	26
5	A06030-23	Too round! DISCARD	45	16	57	21
6	A061070-3CSR	Too round. Softballs and baseballs. DISCARD	55	22	68	28
7	A06403-12	Blocky, ugly skin, too many greens. DISCARD	47	19	59	24
8	A07061-6	Too short, with ugly skin. DISCARD	56	28	68	34
9	A07088-6	Mostly round, small, with bad skin. DISCARD	60	26	73	31
10	A071012-4BF	Plump, many short ones, bad skin.	53	24	74	34
11	A08009-2TE	50% round, 50% long and ttypy.	53	24	71	33
12	A08422-2VRsto	A lot of short and small ones.	59	23	74	29
13	A10210-7TE	Ugly skin, non uniform shape, DISCARD.	45	19	56	24
14	A10214-2TE	Too round and short.	39	14	53	19
15	AOR06576-1	Length ok, some curves and points.	61	30	74	36
16	AOR07781-5	Ttypy, nice russet skin. Could go fresh.	55	23	67	29
17	AOR07821-1	Short, round, irregular shapes, DISCARD.	60	28	80	37
18	AOR08032-1	A bit flat, mostly ttypy, short, oval.	52	22	64	27