

2022 TRI-STATE RUSSET POTATO VARIETY TRIAL REPORT



State Experiment Stations and
USDA-ARS Cooperating

Washington

Oregon

Idaho

2022 TRI-STATE POTATO VARIETY TRIAL REPORT

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TABLE 1: 2022 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)	R. Spear J. Whitworth R. Novy B. Schneider C. Lowder	Early Late	Solid Set	250N-80P-25S 270N-150P-40Sul 5Zn-5Mn Seed spacing: in row 10.0" rows 36"	21-Apr 28-Apr	11-Aug Mechanical 1-Sep Mechanical	23-Aug 20-Sep	112 126	124 145	TriCor 4F Matrix Eptam 7-E	Admire Pro	
Ontario Oregon (HOR)	C. Shock E. Feibert	Early	Solid Set	200 N Seed spacing: in row 9.0" rows 36"	8-Apr	10-Aug Mechanical	17-Aug	124	131	Eptam Prowl Dual Magnum	Admire	
Hermiston Oregon (HOR)	S. Sathuvalli	Late	Pivot	395N-130P-150K- 60S-10Mg-3B Seed spacing: in row 9.25" rows 34"	6-Apr	31-Aug Reglone, Chop and roll	9-Sep	147	156	Dual Magnum Prowl	Admire Coragen Blackhawk	Quadris Ridimil Omega
Othello (EWA) Washington	M Pavak J. Blauer N. Fuller Z. Holden	Early	Pivot	200N-300P- 300K Seed spacing: in row 12" rows 32"	29-Mar	5-Aug Mechanical/Chemical	15-Aug	129	139	PreEmerge: Outlook Prowl H2O Eptam	Platinum	Priaxor Equus Bravo Zing
Othello (LWA) Washington		Late	Pivot	230N-400P-300K Seed spacing: in row 11" rows 32"	31-Mar	9-Sep Mechanical/Chemical	15-Sep	162	168			

TABLE 2: 2022 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	Clearwater Russet	Bannock Russet A89152-4	M. Purple	Check	Dual	Check	OR	97	2.2	3.5	Oblong	3.5	Med Russet	3.3	Med-large	3.3	Medium
2	Ranger Russet	Butte A6595-3	Red-purple	Check	Dual	Check	OR	95	2.3	4.5	Long	3.7	Med Russet	3.2	Med-large	3.4	Medium
3	Russet Burbank	Early Rose ?	White	Check	Dual	Check	OR	97	2.0	3.6	Obl-Lng	3.2	Med Russet	2.8	Medium	2.6	Med Early
4	Russet Norkotah	ND9687-5 Rus ND9526-4 Rus	White	Check	Fresh	Check	OR	96	2.2	3.4	Oblong	3.9	Med Russet	1.9	Small	1.2	Early
5	Shepody	Bake-King F58050	White	Check	Proc	Check	OR	99	1.6	3.5	Oblong	1.5	White	2.0	Small	4.4	Late
6	A09136-9LB	A02424-83LB A98345-1	Red-purple	ID	Dual	2	OR	98	2.8	2.6	Oblong	3.1	Med Russet	2.7	Medium	2.7	Med Early
7	A10071-1	Targhee Russet AO02183-2	White	ID	Dual	1	ID	95	2.8	3.6	Obl-Lng	4.4	Med Hvy Rus	2.7	Medium	2.9	Med Early
8	A11175-12TE	Blazer Russet COA05149-2	White	ID	Dual	2	OR	95	2.6	2.5	Rnd-Obl	3.5	Med Russet	2.3	Small	1.0	Early
9	A11326-1	A06030-8T AO96365-2	White	ID	Dual	2	OR	97	2.8	3.2	Oblong	3.3	Med Russet	3.6	Med-large	3.0	Med Early
10	A11381-3	AO01114-4 AO1025-4	White	ID	Dual	1	ID	97	3.2	2.5	Rnd-Obl	3.0	Light Russet	2.9	Medium	2.7	Med Early
11	A12169-5	Dakota Trailblazer A03082-4	White	ID	Dual	1	ID	94	1.8	3.2	Oblong	3.3	Med Russet	2.9	Medium	3.4	Medium
12	A12304-1sto	A96953-13sto Clearwater Russet	White	ID	Dual	1	ID	92	3.1	3.4	Oblong	3.3	Med Russet	2.8	Medium	3.2	Medium
13	A13036-12	A08014-9TE AO02183-2	White	ID	Dual	1	ID	96	2.7	2.8	Oblong	4.0	Med Russet	3.1	Med-large	3.1	Medium
14	A13072-7	A07106-10 A05084-11	White	ID	Dual	1	ID	96	2.4	3.5	Oblong	4.0	Med Russet	2.9	Medium	2.8	Med Early
15	A13091-5	AO01114-4 AO02183-2	White	ID	Dual	1	ID	98	2.2	2.7	Oblong	3.3	Med Russet	2.2	Small	2.2	Early
16	AFA6346-2	AFA4342-3 AF4296-3	Red-purple	ID	Dual	1	ID	95	1.5	3.4	Oblong	3.1	Med Russet	2.8	Medium	2.8	Med Early
17	AOR13064-2	A06029-4T AO02183-2	White	OR	Dual	2	OR	99	2.2	3.5	Oblong	3.7	Med Russet	2.7	Medium	2.8	Med Early
18	COA13241-3	AC05039-2RU CO06057-3RU	White	ID	Dual	1	ID	94	2.5	4.1	Long	3.3	Med Russet	2.9	Medium	2.8	Med Early
19	COA14185-3	AC99375-1RU CO08071-6RU	White	ID	Dual	1	ID	96	2.6	3.8	Obl-Lng	3.4	Med Russet	3.0	Medium	3.1	Medium
Means								96.1	2.4	3.3		3.4		2.8		2.8	

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: 2022 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	Herm	Entry Mean	Rank
1	Clearwater Russet	223	488	402	371	9	336	655	561	517	11
2	Ranger Russet	254	598	458	436	1	381	742	600	574	8
3	Russet Burbank	199	677	407	428	2	290	677	451	473	16
4	Russet Norkotah	158	622	312	364	11	218	700	492	470	17
5	Shepody	104	509	272	295	17					
6	A09136-9LB	218	524	336	359	12	342	667	685	565	10
7	A10071-1	178	627	452	419	3	298	813	654	588	7
8	A11175-12TE						282	654	542	492	14
9	A11326-1						369	750	708	609	3
10	A11381-3	192	588	424	401	4	341	793	683	605	4
11	A12169-5	199	591	363	384	6	313	837	616	589	6
12	A12304-1sto	185	474	287	315	16	344	825	743	637	2
13	A13036-12	203	484	442	376	7	441	770	807	672	1
14	A13072-7	194	580	395	390	5	340	774	687	600	5
15	A13091-5	240	501	328	370	10	288	563	399	417	18
16	AFA6346-2	177	503	421	340	13	291	595	616	500	12
17	AOR13064-2	243	426	360	335	14	338	528	558	475	15
18	COA13241-3	174	481	297	327	15	307	673	503	495	13
19	COA14185-3	225	528	402	376	8	350	672	691	571	9
	Location Means	198	541	374	370		326	705	611	547	
	LSD (.05)				100					112	

TABLE 4: 2022. 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 Herm	Entry Mean	Rank
		1	Clearwater Russet	121	479	308	303	8	284	628	382
		54	98	76	76	8	84	96	68	83	6
2	Ranger Russet	175	509	315	333	2	306	619	468	464	9
		69	85	69	74	10	80	83	78	81	12
3	Russet Burbank	98	603	288	330	4	166	563	332	354	17
		49	89	71	70	13	57	83	74	71	18
4	Russet Norkotah	74	584	129	263	13	130	664	296	363	16
		47	94	42	61	15	60	95	60	72	17
5	Shepody	52	412	110	191	17					
		50	81	41	57	17					
6	A09136-9LB	160	486	259	301	9	288	601	577	488	6
		73	93	77	81	5	84	90	84	86	2
7	A10071-1	121	594	304	339	1	237	709	533	493	5
		68	95	67	77	7	79	87	82	83	7
8	A11175-12TE						221	592	381	398	13
							78	91	70	80	13
9	A11326-1						281	664	551	499	4
							76	89	78	81	10
10	A11381-3	98	575	262	312	7	246	765	555	522	3
		51	98	62	70	12	72	97	81	83	5
11	A12169-5	167	536	293	332	3	254	585	501	447	10
		84	91	81	85	2	81	70	81	77	15
12	A12304-1sto	52	464	133	217	16	267	765	560	531	2
		28	98	47	58	16	78	93	75	82	8
13	A13036-12	165	468	354	329	5	394	703	702	600	1
		82	97	80	86	1	89	91	87	89	1
14	A13072-7	133	536	307	326	6	273	641	540	485	7
		69	92	78	80	6	80	83	79	81	11
15	A13091-5	193	495	210	299	10	250	528	282	353	18
		80	99	64	81	4	87	94	70	84	4
16	AFA6346-2	118	404	319	280	12	227	497	465	396	14
		67	80	76	74	11	78	84	75	79	14
17	AOR13064-2	196	397	263	285	11	297	466	440	401	12
		81	93	73	82	3	88	88	79	85	3
18	COA13241-3	117	462	194	257	15	224	564	356	381	15
		67	96	65	76	9	73	84	71	76	16
19	COA14185-3	134	481	167	261	14	278	596	534	469	8
		60	91	41	64	14	79	89	77	82	9
	Location Means	128	499	248	296		257	619	470	452	
		63	92	65	74		78	88	76	81	
	LSD (.05)				122					124	

TABLE 5: 2022 Tri-State Potato Variety Trial - YIELD > 10 OZ (CWT/A & %) - EARLY AND LATE HARVEST

		U.S. No. 1's > 10 OZ - Early Harvest (CWT/A)/%					U.S. No. 1's >10 OZ - Late Harvest (CWT/A)/%				
No.	Clone	ID	WA	Ont	Entry Mean	Rank	ID	WA	OR Herm	Entry Mean	Rank
1	Clearwater Russet	4	28	70	34	16	73	157	49	93	16
		2	6	17	8	16	22	24	9	18	14
2	Ranger Russet	5	149	45	66	11	98	310	140	182	6
		2	25	10	12	11	26	42	23	30	5
3	Russet Burbank	6	187	34	76	6	38	185	95	106	14
		3	28	8	13	9	13	27	21	21	11
4	Russet Norkotah	2	152	3	52	13	13	302	15	110	13
		2	24	1	9	14	6	43	3	17	16
5	Shepody	5	256	1	87	5					
		5	50	0	18	6					
6	A09136-9LB	30	192	67	97	4	67	389	161	206	4
		14	37	20	24	2	20	58	24	34	4
7	A10071-1	9	161	31	67	10	36	202	137	125	12
		5	26	7	13	10	12	25	21	19	13
8	A11175-12TE						27	138	22	63	18
							10	21	4	12	18
9	A11326-1						49	376	179	201	5
							13	50	25	30	6
10	A11381-3	0	155	21	58	12	24	301	152	159	7
		0	26	5	10	13	7	38	22	22	10
11	A12169-5	57	312	64	144	1	149	360	179	229	3
		29	53	18	33	1	48	43	29	40	3
12	A12304-1sto	0	31	5	12	17	61	260	75	132	10
		0	7	2	3	17	18	31	10	20	12
13	A13036-12	29	207	56	97	3	258	413	468	380	1
		14	43	13	23	3	58	54	58	57	1
14	A13072-7	18	277	35	110	2	90	396	406	297	2
		9	48	9	22	4	26	51	59	46	2
15	A13091-5	31	161	22	71	8	55	143	21	73	17
		13	32	7	17	7	19	25	5	17	17
16	AFA6346-2	0	158	68	75	7	39	129	111	93	15
		0	31	16	16	8	13	22	18	18	15
17	AOR13064-2	53	131	27	70	9	103	158	128	129	11
		22	31	8	20	5	30	30	23	28	7
18	COA13241-3	6	118	23	49	14	40	316	63	140	8
		3	25	8	12	12	13	47	12	24	8
19	COA14185-3	12	102	3	39	15	61	213	140	138	9
		5	19	1	8	15	17	32	20	23	9
Location Means		16	163	34	71		71	264	141	159	
		7	30	9	15		21	37	22	26	
LSD (.05)										128	

TABLE 6: 2022 Tri-State Potato Variety Trial - YIELD < 4 OZ (CWT/A & %) - EARLY AND LATE HARVEST

Yield < 4 OZ - Early Harvest (CWT/A)/%							Yield < 4 OZ - Late Harvest (CWT/A)/%				
No.	Clone	ID	WA	Ont	Entry Mean	Rank	ID	WA	OR Herm	Entry Mean	Rank
1	Clearwater Russet	92	143	73	103	5	44	97	156	99	3
		41	29	18	30	6	13	15	28	19	3
2	Ranger Russet	61	63	109	77	8	30	55	71	52	15
		24	11	24	19	11	8	7	12	9	15
3	Russet Burbank	80	83	111	91	7	53	66	70	63	12
		40	12	27	27	7	18	10	16	14	9
4	Russet Norkotah	80	76	174	110	4	82	77	181	113	1
		51	12	56	40	2	38	11	37	29	1
5	Shepody	46	21	123	63	11					
		45	4	45	31	5					
6	A09136-9LB	48	52	70	57	14	38	43	80	54	13
		22	10	21	18	14	11	6	12	10	14
7	A10071-1	44	109	134	96	6	54	107	92	84	6
		25	17	30	24	8	18	13	14	15	7
8	A11175-12TE						53	91	149	98	4
							19	14	27	20	2
9	A11326-1						68	40	97	68	10
							18	5	14	12	12
10	A11381-3	87	91	155	111	3	90	101	94	95	5
		45	15	37	33	4	26	13	14	18	6
11	A12169-5	23	31	62	39	17	9	37	48	32	18
		11	5	17	11	17	3	4	8	5	17
12	A12304-1sto	126	142	151	140	1	73	100	150	108	2
		68	30	53	50	1	21	12	20	18	4
13	A13036-12	29	50	79	52	16	18	45	34	33	17
		14	10	18	14	16	4	6	4	5	18
14	A13072-7	53	44	78	59	12	39	45	37	40	16
		27	8	20	18	13	11	6	5	8	16
15	A13091-5	40	73	115	76	9	38	68	113	73	9
		16	14	35	22	10	13	12	28	18	5
16	AFA6346-2	50	39	84	58	13	33	111	94	79	8
		28	8	20	19	12	11	19	15	15	8
17	AOR13064-2	25	43	90	53	15	24	52	80	52	14
		10	10	25	15	15	7	10	14	10	13
18	COA13241-3	45	74	89	69	10	43	34	114	64	11
		26	15	30	24	9	14	5	23	14	11
19	COA14185-3	65	98	220	128	2	48	94	97	80	7
		29	19	55	34	3	14	14	14	14	10
Location Means		58	73	113	79		46	70	97	71	
LSD (.05)		31	14	31	25		15	10	17	14	
										47	

TABLE 7: 2022 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	Entry Mean	Rank
1	Clearwater Russet	1.074	1.080	1.070	1.075	9	1.090	1.087	1.088	1.088	5
2	Ranger Russet	1.078	1.076	1.071	1.075	8	1.093	1.081	1.086	1.087	11
3	Russet Burbank	1.066	1.076	1.073	1.072	14	1.071	1.075	1.074	1.074	17
4	Russet Norkotah	1.068	1.071	1.078	1.072	13	1.072	1.070	1.072	1.071	18
5	Shepody	1.064	1.073	1.071	1.069	16					
6	A09136-9LB	1.081	1.079	1.083	1.081	3	1.095	1.086	1.089	1.090	3
7	A10071-1	1.066	1.069	1.069	1.068	17	1.082	1.071	1.073	1.075	16
8	A11175-12TE						1.083	1.074	1.078	1.078	15
9	A11326-1						1.098	1.090	1.096	1.095	1
10	A11381-3	1.073	1.076	1.075	1.075	11	1.091	1.087	1.084	1.087	7
11	A12169-5	1.074	1.074	1.075	1.074	12	1.098	1.081	1.088	1.089	4
12	A12304-1sto	1.074	1.076	1.074	1.075	10	1.094	1.085	1.083	1.087	8
13	A13036-12	1.072	1.071	1.071	1.071	15	1.087	1.081	1.088	1.085	12
14	A13072-7	1.080	1.075	1.088	1.081	2	1.099	1.082	1.081	1.087	9
15	A13091-5	1.083	1.081	1.083	1.082	1	1.090	1.082	1.077	1.083	13
16	AFA6346-2	1.079	1.076	1.078	1.078	5	1.091	1.073	1.083	1.082	14
17	AOR13064-2	1.079	1.075	1.078	1.077	6	1.096	1.087	1.087	1.090	2
18	COA13241-3	1.071	1.079	1.078	1.076	7	1.088	1.090	1.086	1.088	6
19	COA14185-3	1.076	1.081	1.079	1.079	4	1.092	1.085	1.085	1.087	10
Location Means		1.074	1.076	1.076	1.075		1.089	1.081	1.083	1.084	
LSD (0.05)					0.006					0.007	

TABLE 10: 2022 Tri-State Potato Variety Trial - TUBER DESCRIPTORS

No. Clone		Tuber Uniformity ¹						Visual Apperance ¹					
		Early			Late			Entry Means	Early		Late		Entry Means
		ID	WA	Ont	ID	WA	Herm		ID	WA	ID	WA	
1	Clearwater Russet	3.5	4.0	4.0	3.5	3.0	3.4	3.6	3.5	4.0	3.6	3.0	3.5
2	Ranger Russet	3.1	2.3	3.0	2.8	2.5	2.6	2.7	3.3	3.0	3.1	2.8	3.0
3	Russet Burbank	2.0	1.0	3.0	2.3	2.0	2.8	2.2	3.1	1.7	3.1	2.0	2.5
4	Russet Norkotah	3.5	3.0	4.0	3.8	4.0	3.5	3.6	3.8	4.0	3.9	3.3	3.7
5	Shepody	2.5	2.0	3.0				2.5	2.5	1.0			
6	A09136-9LB	2.6	2.0	3.0	3.6	2.0	2.4	2.6	3.3	1.7	3.3	2.0	2.5
7	A10071-1	2.6	2.0	3.0	3.3	3.0	2.9	2.8	3.6	2.3	3.6	2.0	2.9
8	A11175-12TE				3.3	2.8	3.4	3.1			3.3	2.0	2.6
9	A11326-1				3.6	2.5	3.3	3.1			3.4	2.0	2.7
10	A11381-3	3.3	2.7	3.0	3.3	3.0	3.0	3.0	3.3	1.3	3.4	2.8	2.7
11	A12169-5	2.8	3.0	4.0	3.3	1.0	2.4	2.7	3.5	3.3	3.5	1.5	3.0
12	A12304-1sto	3.1	4.0	3.0	3.9	4.0	3.5	3.6	3.4	3.3	2.6	3.5	3.2
13	A13036-12	2.9	2.0	3.0	2.9	2.3	3.4	2.7	3.8	2.3	3.3	2.0	2.8
14	A13072-7	3.6	2.7	4.0	3.4	2.3	3.1	3.2	3.5	2.3	3.4	2.0	2.8
15	A13091-5	3.6	2.0	4.0	3.9	3.0	3.4	3.3	3.6	3.0	3.8	2.5	3.2
16	AFA6346-2	3.5	2.0	3.0	3.0	3.0	2.8	2.9	3.5	3.0	2.8	1.7	2.7
17	AOR13064-2	3.4	3.0	3.0	3.8	3.0	3.5	3.3	3.8	3.0	3.8	2.3	3.2
18	COA13241-3	3.1	4.0	4.0	3.4	3.8	2.9	3.5	2.8	4.0	3.3	3.3	3.3
19	COA14185-3	2.3	2.3	3.0	3.1	2.8	2.8	2.7	3.1	3.3	2.9	2.8	3.0
Location Means		3.0	2.6	3.4	3.3	2.8	3.0	3.0	3.4	2.7	3.3	2.4	3.0

¹ Score 1-5, with 5=Best.

TABLE 11: 2022 Tri-State Potato Variety Trial - TUBER DESCRIPTORS CONTINUED

No. Clone		Shatter ¹								Greening ¹								
		Early			Late			Entry Means	AB ²	Early			Late			Entry Means	Early Green	Late CWT AB
		ID	WA	Ont	ID	WA	Herm			ID	WA	Herm						
1	Clearwater Russet	5.0	4.0	5.0	5.0	2.0	4.9	4.2	3.5	5.0	5.0	5.0	4.3	5.0	4.4	4.8	0.0	3.4
2	Ranger Russet	4.5	4.0	5.0	5.0	2.0	5.0	4.1	3.1	5.0	5.0	5.0	5.0	4.0	4.0	4.7	0.0	0.0
3	Russet Burbank	4.9	3.0	5.0	5.0	3.0	4.9	4.2	3.0	5.0	5.0	5.0	4.5	4.0	4.3	4.6	0.0	3.5
4	Russet Norkotah	5.3	5.0	5.0	5.0	3.0	5.0	4.7	3.4	5.0	5.0	5.0	4.8	4.0	4.5	4.7	0.0	1.0
5	Shepody	5.0	4.0	5.0				4.7		5.0	5.0	5.0				5.0		
6	A09136-9LB	5.0	3.0	5.0	4.6	1.0	4.5	3.7	3.2	5.0	4.0	5.0	4.8	4.0	4.5	4.5	0.0	1.0
7	A10071-1	5.0	4.0	5.0	5.0	1.0	4.4	4.0	3.8	5.0	5.0	5.0	4.5	4.0	4.5	4.7	0.0	0.5
8	A11175-12TE				5.0	3.0	4.8	4.0	3.3				4.3	4.0	4.5	4.3	0.0	6.0
9	A11326-1				5.0	3.0	4.6	4.0	2.9				4.4	4.0	4.3	4.2	0.0	3.8
10	A11381-3	4.9	4.0	5.0	5.0	2.0	4.3	4.2	3.5	5.0	5.0	5.0	4.6	4.0	4.3	4.6	0.0	1.2
11	A12169-5	5.0	3.0	5.0	5.0	2.0	4.6	4.0	3.7	5.0	5.0	5.0	5.0	4.3	4.3	4.8	0.0	0.0
12	A12304-1sto	4.3	4.0	5.0	5.0	1.0	4.5	3.9	3.1	5.0	4.0	5.0	4.5	4.3	4.3	4.5	0.0	1.7
13	A13036-12	5.0	3.0	5.0	4.9	1.0	4.1	3.8	3.3	5.0	5.0	5.0	4.3	4.0	4.3	4.6	0.0	4.1
14	A13072-7	4.9	4.0	5.0	5.0	2.0	4.0	4.2	3.3	5.0	4.0	5.0	3.9	4.0	4.3	4.4	0.0	8.4
15	A13091-5	4.9	2.0	5.0	5.0	1.0	4.3	3.6	3.2	5.0	4.0	5.0	5.0	4.0	4.6	4.6	0.0	0.0
16	AFA6346-2	5.0	5.0	5.0	5.0	1.0	4.8	4.2	3.7	4.8	1.0	5.0	3.5	1.7	4.1	3.3	1.4	16.9
17	AOR13064-2	5.0	4.0	5.0	5.0	4.0	4.8	4.6	3.5	5.0	5.0	5.0	4.8	4.0	4.6	4.7	0.0	0.2
18	COA13241-3	5.0	5.0	5.0	5.0	3.0	4.6	4.6	3.5	4.5	5.0	5.0	3.9	3.5	4.3	4.4	1.4	12.3
19	COA14185-3	5.0	4.0	5.0	5.0	3.0	4.6	4.4	2.4	5.0	5.0	5.0	4.4	4.0	4.3	4.6	0.0	4.3
Location Means		4.9	3.8	5.0	5.0	2.1	4.6	4.2	3.3	5.0	4.5	5.0	4.5	3.9	4.3	4.5	0.2	3.8

¹ Score 1-5, with 5=Best.

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

TABLE 12: 2022 Tri-State Potato Variety Trial - EXTERNAL DEFECTS -

GROWTH CRACKS, SECOND GROWTH, SCAB -MEANS OF LOCATIONS

No.	Clone	Growth Cracks ¹		Second Growth ¹		Scab ¹	
		Early	Late	Early	Late	Early	Late
1	Clearwater Russet	5.0	4.9	5.0	5.0	5.0	5.0
2	Ranger Russet	5.0	4.8	5.0	4.7	4.8	5.0
3	Russet Burbank	4.9	4.3	3.6	3.8	5.0	5.0
4	Russet Norkotah	5.0	5.0	5.0	4.9	5.0	4.6
5	Shepody	4.9		4.4		4.3	
6	A09136-9LB	5.0	4.9	5.0	4.7	4.8	4.9
7	A10071-1	5.0	5.0	4.9	5.0	4.8	3.8
8	A11175-12TE		4.9		5.0		5.0
9	A11326-1		4.5		4.9		4.8
10	A11381-3	5.0	5.0	5.0	5.0	5.0	4.8
11	A12169-5	4.7	3.8	4.8	4.8	4.8	5.0
12	A12304-1sto	5.0	5.0	5.0	5.0	4.8	5.0
13	A13036-12	4.9	4.6	5.0	5.0	5.0	4.9
14	A13072-7	5.0	4.7	5.0	4.9	5.0	4.0
15	A13091-5	5.0	4.9	5.0	5.0	4.8	5.0
16	AFA6346-2	5.0	4.2	5.0	4.4	4.5	4.9
17	AOR13064-2	5.0	4.6	5.0	5.0	5.0	4.0
18	COA13241-3	4.9	4.6	4.9	4.7	5.0	4.9
19	COA14185-3	5.0	4.9	4.8	4.9	5.0	4.8
Means		5.0	4.7	4.8	4.8	4.9	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)].

TABLE 13: 2022 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				Means Late only
		Early	Late	Early	Late	Early	Late	Washington ²		Herm	AB ³	
1	Clearwater Russet	0.0	0.8	0.0	2.5	1.7	5.0	5.0	5.0	2.5	3.0	3.5
2	Ranger Russet	0.0	0.0	0.8	6.7 (HERM 20)	2.5	5.0	5.0	4.0	2.0	1.6	2.5
3	Russet Burbank	7.3	11.7 (AB 33)	0.0	5.8	0.0	5.0	5.0	5.0	3.0	2.5	3.5
4	Russet Norkotah	5.0 (AB 15)	0.0	0.0	0.8	3.3	1.7	5.0	5.0	3.5	2.4	3.6
5	Shepody	0.0		0.0		1.1		5.0				
6	A09136-9LB	0.0	5.0	0.8	1.7	0.0	4.2	5.0	5.0	2.0	1.6	2.9
7	A10071-1	0.0	4.2	0.0	0.8	0.0	0.0	5.0	5.0	3.0	2.8	3.6
8	A11175-12TE		2.5		0.8		4.2		5.0	4.0	3.0	4.0
9	A11326-1		15.8 (AB 30 HERM 18)		5.8 (HERM 18)		0.8		5.0	2.0	1.5	2.8
10	A11381-3	0.0	0.0	0.0	7.5 (HERM 23)	3.3	0.8	5.0	5.0	3.5	2.3	3.6
11	A12169-5	0.8	0.8	0.0	0.0	2.0	5.0	5.0	5.0	3.5	3.8	4.1
12	A12304-1sto	0.0	0.0	0.0	5.0 (HERM 15)	0.0	0.0	5.0	5.0	1.0	1.2	2.4
13	A13036-12	0.0	6.7	0.0	0.0	0.0	9.2 (HERM 23)	5.0	5.0	1.0	3.5	3.2
14	A13072-7	3.3	10.0 (AB 30)	0.0	9.2 (HERM 18)	2.0	10.0 (HERM 30)	5.0	5.0	2.0	2.5	3.2
15	A13091-5	0.8	5.8 (AB 15)	0.0	0.0	0.0	2.5	5.0	5.0	3.5	2.4	3.6
16	AFA6346-2	1.4	5.0	0.0	5.8	3.1	6.7	5.0	5.0	3.5	2.1	3.5
17	AOR13064-2	0.0	1.7	0.0	3.4	3.8	1.7	5.0	5.0	1.0	2.4	2.8
18	COA13241-3	0.8	0.8	0.0	0.0	0.0	5.0	5.0	5.0	3.0	3.3	3.8
19	COA14185-3	4.2	8.3 (AB 25)	1.0	3.3	0.0	4.2	5.0	5.0	2.5	3.6	3.7
Means		1.2	2.1	0.2	1.9	1.3	3.2	5.0	4.9	2.6	2.5	3.3

¹ Rating of Stem-end Browning + VD

² Score 1-5, with 1=severe, 5=none.

³ Aberdeen blackspot scores from an abrasive peel test [1-5(none)].

TABLE 14: 2022 Tri-State Potato Variety Trial - FRENCH FRY COLOR (00-4.0(darkest)), AND PERCENT SUGAR ENDS

No.	Clone	Fry 44 or 45°						Postharvest			Fry 40°						Postharvest			Sugar Ends		
		WA ¹	ID ¹	OR ¹	Ont ²	Herm ³	All Entries		3 state mean. ⁴	WA ¹	ID ¹	OR ¹	All Entries		3 state mean. ⁴	Ont ²	Herm ³	Entry Mean				
							Mean	Rank					Mean	Rank								
1	Clearwater Russet	0.0	0.0	0.0	3.4	1.7	1.0	10	0.0	1.0	0.0	0.0	0.3	4	0.3	7.5	0.0	3.8				
2	Ranger Russet	1.0	0.0	1.0	3.4	2.4	1.6	15	0.7	2.0	1.0	2.0	1.7	12	1.7	2.5	4.2	3.3				
3	Russet Burbank	2.0	1.0	2.0	3.9	2.7	2.3	16	1.7	3.0	2.0	3.0	2.7	17	2.7	12.5	8.3	10.4				
4	Russet Norkotah				2.2	2.6			0.0						0.0	0.0	0.0					
5	Shepody				2.8				0.0						17.5	0.0	8.8					
6	A09136-9LB				2.4	1.9			0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0				
7	A10071-1	0.0	0.0	1.0	2.5	1.9	1.1	11	0.3	1.0	0.0	2.0	1.0	8	1.0	2.5	0.0	1.3				
8	A11175-12TE	0.0	0.0	0.0		1.8	0.4	1	0.0	0.0	0.0	1.0	0.3	4	0.3	0.0	0.0	0.0				
9	A11326-1	0.0	0.0	1.0		2.1	0.8	5	0.3	2.0	0.0	2.0	1.3	10	1.3	0.0	8.3	4.2				
10	A11381-3	0.0	0.0	0.0	2.9	2.2	1.0	9	0.0	3.0	1.0	2.0	2.0	15	2.0	2.5	0.0	1.3				
11	A12169-5	0.0	0.0	0.0	2.0	1.7	0.7	4	0.0	1.0	0.0	0.0	0.3	4	0.3	2.5	0.0	1.3				
12	A12304-1sto	1.0	0.0	0.0	3.3	2.4	1.3	13	0.3	2.0	1.0	1.0	1.3	10	1.3	0.0	0.0	0.0				
13	A13036-12	0.0	0.0	0.0	2.6	1.6	0.8	6	0.0	0.0	0.0	1.0	0.3	4	0.3	2.5	0.0	1.3				
14	A13072-7	0.0	0.0	0.0	3.0	2.1	1.0	8	0.0	2.0	0.0	1.0	1.0	8	1.0	0.0	4.2	2.1				
15	A13091-5	0.0	0.0	0.0	1.7	1.4	0.6	2	0.0	0.0	0.0	0.0	0.0	1	0.0	5.0	0.0	2.5				
16	AFA6346-2	1.0	0.0	0.0	2.4	2.3	1.1	12	0.3	2.0	1.0	2.0	1.7	12	1.7	0.0	0.0	0.0				
17	AOR13064-2	0.0	0.0	0.0	2.0	1.3	0.7	3	0.0	0.0	0.0	0.0	0.0	1	0.0	2.5	0.0	1.3				
18	COA13241-3	1.0	1.0	1.0	2.0	2.7	1.5	14	1.0	2.0	2.0	2.0	2.0	15	2.0	10.0	20.8	15.4				
19	COA14185-3	0.0	0.0	0.0	2.9	2.0	1.0	7	0.0	2.0	1.0	2.0	1.7	12	1.7	0.0	0.0	0.0				
Location Means		0.4	0.1	0.4	2.7	2.0	1.0			1.3	0.4	1.1	0.9			3.4	1.5	2.4				

¹ Samples held for 1 (45°) and 2 (40°) week cool down period - 60 days at storage temperature.

² Samples held for 5 week cool down period - 4 weeks at 45° storage temperature.

³ Samples held for 2 week cool down period - 10 weeks at 47° storage temperature.

⁴ Three state average processed at Washington - For complete postharvest results see <http://www.potatoes.wsu.edu/>

TABLE 15: 2022 Tri-State Potato Variety Trial - DISEASE EVALUATIONS, METRIBUZIN REACTION

No. Clone	Vert. Wilt/Early Dying		Early Blight		Common Scab		Corky Ringspot		Soft Rot	Dry rot	Metr. Reaction				
	AB ¹		AB ¹		AB ¹		PROS ³		<i>Pecto-</i>	<i>Fusarium</i>					
	HERM		Foliar		Serious		Incidence Defects(<i>bacterium</i>	<i>ambucinum</i>					
	(0-9)	AUDPC	(0-9)	AUDPC	(0-9)	AUDPC	(%)	(%)	AB ¹	AB ¹		PVY %			
								Incidence	Defects(reaction	(0-5) ²	(0-5) ²	HERM ⁴	AB ⁵	
1 Clearwater Russet	4.3	110	7	1124	3.7	91	23.3	9.7	47.1	33.9	S	2.0	4.5	100	R
2 Ranger Russet	5.3	265	8.2	1581	5.3	243	41.2	7.1	61.9	52.7	S	2.5	3.1	90	MR
3 Russet Burbank	6.7	405	8.8	1565	5.0	220	20.5	10.8	33.5	24.4	S	3.7	4.0	100	MR
4 Russet Norkotah	9.0	1188	9	1974	8.0	763	24.4	12.8	--	--	--	2.1	3.3	100	R
5 Shepody	7.3	698	--	--	7.0	604	21.5	8.2	--	--	--	3.7	2.9	--	VS
6 A09136-9LB	7.0	483	8.3	1605	6.0	337	15.6	4.4	39.5	28.0	S	2.3	4.9	50	MR
7 A10071-1	7.0	555	8.5	1631	7.0	457	4.8	1.6	5.5	1.8	MR	2.9	2.8	30	MS
8 A11175-12TE	9.0	1208	8.5	1744	--	--	17.9	10.3	21.1	12.5	S	1.7	3.8	55	R
9 A11326-1	5.0	143	7.3	1084	5.3	262	19.7	6.4	28.3	14.6	S	1.9	3.2	0	R
10 A11381-3	5.0	220	8.5	1406	6.0	287	12.5	9.8	52.0	41.2	S	2.1	2.8	80	MR
11 A12169-5	3.0	37	7.8	1315	4.0	87	18.6	7.8	25.8	10.4	S	1.6	3.0	25	MR
12 A12304-1sto	4.7	160	7.3	1249	5.3	325	13.3	10.7	50.8	33.2	S	2.8	3.1	0	S
13 A13036-12	6.0	330	8.5	1626	6.3	335	22.8	6.5	56.2	47.7	S	2.3	4.8	50	R
14 A13072-7	7.0	457	8.7	1651	6.0	352	19.0	6.9	45.8	34.3	S	0.8	4.4	45	MS
15 A13091-5	8.3	563	9	2139	8.0	603	37.3	16.5	44.4	27.0	S	2.3	2.0	25	R
16 AFA6346-2	6.3	310	8.2	1693	7.0	506	16.4	10.3	29.3	16.3	S	2.0	3.2	0	MS
17 AOR13064-2	7.3	639	8.8	1561	5.0	195	16.7	14.8	32.8	19.1	S	2.0	2.1	70	S
18 COA13241-3	6.7	405	8.5	1521	6.0	237	3.0	12.1	26.4	16.6	S	1.9	4.0	100	MR
19 COA14185-3	7.3	574	7	1124	6.7	442	15.1	15.1	65.8	51.3	S	1.3	4.5	0	MS
MEANS	6.4	460.5	8.2	1532.9	6.0	352.6	19.1	9.6	39.2	27.4		2.2	3.5	51.1	
LSD @ .05	3.6				1.6		34.0	16.0				1.9	1.1		
Castle Russet								0.0	0.0		R				

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

2 For 0 to 5: 0=none, 5=severe as a combination of tuber area and degree impacted by *Pectobacterium* or *Fusarium sambucinum* inoculations done at Aberdeen

3 Corky ringspot readings Prosser, WA by Rich Quick and Launa Cimrhaki

4 PVY readings Hermiston, OR from tuber sprouts by Sagar Suthavalli

5 Metribuzin Reaction measured at Aberdeen, ID by Chelsey Lowder. VR=very resistant, R=Resistant, MR=Moderately resistant, MS=moderately susceptible, S=susceptible VS=very susceptible

TABLE 16: 2022 Solids, Dextrose and Sucrose, Protein, Vitamin C and Glycoalkaloids							
							- Tubers Grown at Aberdeen, Idaho
		Solids	Sugars				
		Oven Dry	Dextrose	Sucrose	Protein	Vitamin C	Glycoalkaloids
No.	Clone	(%)	(%FWB)	(%FWB)	(%DWB)	(mg/100g FWB)	(mg/100gFWB)
1	Clearwater Russet	22.27	0.028	0.098	7.06	28.66	2.65
2	Ranger Russet	23.06	0.031	0.125	5.81	40.48	3.27
3	Russet Burbank	19.85	0.147	0.111	5.90	21.99	3.01
4	Russet Norkotah	19.61	0.050	0.082	4.79	24.40	2.43
5	Shepody						
6	A09136-9LB	22.92	0.016	0.086	5.63	29.20	6.17
7	A10071-1	21.67	0.010	0.129	5.81	29.61	3.15
8	A11175-12TE	21.07	0.009	0.077	6.69	24.31	7.07
9	A11326-1	23.88	0.019	0.109	6.09	39.53	3.85
10	A11381-3	22.53	0.051	0.102	6.06	29.14	1.55
11	A12169-5	23.37	0.063	0.124	6.29	21.16	6.66
12	A12304-1sto	22.62	0.038	0.117	5.91	38.10	1.17
13	A13036-12	21.81	0.014	0.114	6.68	25.03	3.29
14	A13072-7	23.86	0.041	0.170	6.17	23.87	5.87
15	A13091-5	23.02	0.014	0.123	6.00	20.55	1.51
16	AFA6346-2	22.64	0.016	0.124	6.93	28.77	2.78
17	AOR13064-2	24.67	0.013	0.147	5.99	28.00	1.68
18	COA13241-3	21.17	0.075	0.193	7.29	38.95	1.16
19	COA14185-3	22.24	0.039	0.155	5.89	31.73	4.77
	Means	22.35	0.037	0.121	6.17	29.08	3.45
	FWB = fresh weight basis DWB = dry weight basis						
	Glycoalkaloids: The 2022 Lenape check from Aberdeen was 64.1 mg/100g						

TABLE 17: 2022 Tri-State Potato Variety Trial - MERIT SCORES (1-5(best))

No.	Clone	Field Performance Fresh Merit								Field Performance Process Merit				Post-Harvest Process* 3 State Mean	
		ID	Early			ID	Late			WA	LATE				RANK
			WA	Ont	Herm		MEANS	RANK							
1	Clearwater Russet	3.3	4.0	3.0	3.3	3.0	2.0	2.8	6	3.9	3.0	3.5	2	33.2	
2	Ranger Russet	2.6	2.0	3.5	2.5	2.8	2.0	2.4	11	3.5	3.0	3.3	4	28.9	
3	Russet Burbank	1.9	1.0	3.3	2.0	2.0	2.0	2.0	18	2.1	2.5	2.3	16	16.5	
4	Russet Norkotah	2.9	2.3	2.0	2.9	3.3	2.5	2.9	3		2.0	2.0	18		
5	Shepody	2.1	1.0	1.0											
6	A09136-9LB	2.6	2.0	2.3	3.3	2.0	2.0	2.4	11	4.0	2.0	3.0	9	31.7	
7	A10071-1	2.4	2.0	3.3	2.6	2.0	2.0	2.2	16	3.3	2.0	2.7	14	25.5	
8	A11175-12TE				3.3	2.0	2.5	2.6	8	3.6	2.5	3.1	8	29.3	
9	A11326-1				3.1	2.0	1.5	2.2	14	2.8	1.5	2.2	17	24.8	
10	A11381-3	3.0	2.0	2.0	2.9	2.8	2.0	2.5	9	3.4	2.5	3.0	10	28.1	
11	A12169-5	2.6	1.3	2.5	2.6	1.5	2.0	2.0	17	3.9	2.5	3.2	6	32.5	
12	A12304-1sto	2.5	3.0	2.3	3.8	3.5	3.0	3.4	1	3.5	3.0	3.3	4	26.5	
13	A13036-12	3.0	1.3	4.3	2.6	2.0	2.0	2.2	14	4.1	2.5	3.3	3	30.2	
14	A13072-7	3.3	2.0	4.5	3.0	2.0	2.5	2.5	10	3.4	2.5	3.0	10	28.2	
15	A13091-5	3.3	2.0	3.8	3.6	2.5	2.0	2.7	7	3.9	2.0	3.0	10	30.5	
16	AFA6346-2	3.1	1.0	3.8	3.0	1.7	2.0	2.2	13	2.8	2.5	2.7	14	27.1	
17	AOR13064-2	2.8	3.0	2.8	3.3	2.3	3.0	2.8	4	4.7	3.0	3.9	1	35.6	
18	COA13241-3	2.1	3.0	1.5	3.1	3.3	2.5	3.0	2	2.9	2.5	2.7	13	22.5	
19	COA14185-3	2.3	2.7	1.8	2.8	2.8	3.0	2.8	4	3.7	2.5	3.1	7	29.4	
Location Means		2.7	2.1	2.8	3.0	2.4	2.3	2.5		3.5	2.4	2.9		28.3	

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

TABLE 18: 2022 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
1 Clearwater Russet	Check	Dual	517	431 83	5.4	1.088	1.0	3.5 2.8		
2 Ranger Russet	Check	Dual	574	464 81	6.8	1.087	1.6	3.3 2.4		
3 Russet Burbank	Check	Dual	473	354 71	5.9	1.074	2.3	2.3 2.0	Low	HH E-7.3 L-11.7
4 Russet Norkotah	Check	Fresh	470	363 72	5.0	1.071	0.0	2.0 2.9	Low	
5 Shepody	Check	Proc	295	* 191 57	* 5.2	* 1.069	* 0.0	* 1.6	*Low	
6 A09136-9LB	2	Dual	565	488 86	6.9	1.090	0.0	3.0 2.4		
7 A10071-1	1	Dual	588	493 83	5.7	1.075	1.1	2.7 2.2	Low	
8 A11175-12TE	2	Dual	492	398 80	5.0	1.078	0.4	3.1 2.6		
9 A11326-1	2	Dual	609	499 81	6.6	1.095	High 0.8	2.2 2.2	Low	HH 15.8
10 A11381-3	1	Dual	605	522 83	5.5	1.087	1.0	3.0 2.5		
11 A12169-5	1	Dual	589	447 77	8.5	1.089	0.7	3.2 2.0		
12 A12304-1sto	1	Dual	637	531 82	5.4	1.087	1.3	3.3 3.4	High	
13 A13036-12	1	Dual	672	High 600 89	High 9.0	1.085	0.8	3.3 2.2		
14 A13072-7	1	Dual	600	485 81	8.1	1.087	1.0	3.0 2.5		HH 10.0 Vas 10.0
15 A13091-5	1	Dual	417	Low 353 84	Low 5.4	1.083	0.6	3.0 2.7		
16 AFA6346-2	1	Dual	500	396 79	5.3	1.082	1.1	2.7 2.2		
17 AOR13064-2	2	Dual	475	401 85	6.5	1.090	0.7	3.9 2.8	High	
18 COA13241-3	1	Dual	495	381 76	6.3	1.088	1.5	2.7 3.0		
19 COA14185-3	1	Dual	571	469 82	5.9	1.087	1.0	3.1 2.8		

* Early only

TABLE 19: 2022 Early Tri-State Potato Variety Trial - COMMENTS BY STATE

Entry	Clone	Early Idaho	Early Washington	Early Ontario
1	Clearwater Russet	Small, tpy, nice shape, points, uniform (3)	Small, not early. Dark skin.	3 curved, 2 pointy, irregular, heart, sprouts
2	Ranger Russet	Curves (4); deep eyes (3); points, longer (2)	Good length, shape a bit irregular	3 pointy, 3 curved, knobs
3	Russet Burbank	Points, misshapen (3); not uniform, flat, knobs (2)	Larger, skin non-uniform. Shape irregular.	2 irregular, heart, curved
4	Russet Norkotah	Small (3); tpy, nice skin, few points (2)	Mostly tpy, dark skin, some bumpy ones.	
5	Shepody	Small (4); few bulging eyes, rough lumpy, points, low yeild (2)	Large, white, non-uniform shape.	2 irregular, 4 thin, small, 2 curved, 2 pointy
6	A09136-9LB	Blocky (4); points, some round (3); curves (2)	Smaller, short, irregular shapes.	3 pointy, small, Small, round, irregular, sprouts
7	A10071-1	HR, points (4); variable size, curves (2)	Good length, thick skin, irregular shape.	3 pointy, small, 2 heart, irregular, sprouts, curved, knobs
8	A11175-12TE			
9	A11326-1			
10	A11381-3	Typy, small (3); nice blocky shape, good eye, patchy skin (2)	Small, not early, light russet, short.	2 Round, round, 2 pointy, sprouts, pear, small
11	A12169-5	Typy, some round, spotty skin, low yield (2)	Feathery, ugly spotty skin.	2 netted skin, irregular, pointy
12	A12304-1sto	Small (4); tpy (3); uniform shape and size (2)	Not early, small, light russet.	2 Small, small, low yield, round
13	A13036-12	Deeper eyes (3); big, blocky, nice skin (2)	Round, lenticils, ugly skin.	pear, flat, round, sticky stolon, sprouts
14	A13072-7	Typy (4); nice skin, good size, uniform (2)	Deep eyes, lumpy, large, bad skin.	2 pointy, irregular, heart
15	A13091-5	Nice blocky (4); nice skin variable size, few legs, bright eye (2)	Not early, short, plump, light russet.	round, small, growth cracks
16	AFA6346-2	Typy, pathcy skin (3); few curves, few points (2)	Ugly, spotty, feathery skin, lots of greening!	4 pointy, 2 irregular, heart
17	AOR13064-2	Points (4); curves (3); tpy (2);	Nice, long tubers, but poor skin set.	2 pointy, Pointy, small, curved, irregular
18	COA13241-3	Bad skinning, points, curves (3); patchy skin (2)	Good length, poor skin set.	3 Pointy, pointy, small, heart
19	COA14185-3	Points (4); curves, lumpy (3); misshapen (2)	Good length, small, poor skin set.	Pointy, 4 small, Round

TABLE 20: 2022 Late Tri-State Potato Variety Trial - COMMENTS BY STATE

Entry	Clone	Late Idaho	Late Washington	Late Hermiston
1	Clearwater Russet	Flat (3); curves, uniform (2)	Smaller, mostly typy, but short.	dotty-pixel x4, pty x3, short x3, rot x2, typy x2
2	Ranger Russet	Curves (4); good for ranger (3); good length, points (2)	Mostly typy, deeper eyes. Longer, a bit irregular shapes.	rot x3, sticky x3, pty x2, curvy x3, deep eyes x2
3	Russet Burbank	Points (4), curves, misshapen (3) bad HH very bad JE	Irregular shapes, good length.	lenticels x2, curvy x3, bottle x3, sticky x2, deep eyes x2
4	Russet Norkotah	Small (4); uniform, lower yield (2)	Typy, good length, good size	pty x3, short x4, tuberworm x4, typy x3
5	Shepody			
6	A09136-9LB	Shorter/blocky (4); blotchy skin, uniform (3)	River rocks, oval to round, ugly skin.	pear x3, pty x3, bottle x3, flakey x2, traingular x2, spr 3
7	A10071-1	Points, typy (4); good eye, few misshapen (2)	Heavy dark russet, pears. Scab.	lenticels x4, bottle x3, pear x2, pty x4, pixel x3, triangular x2
8	A11175-12TE	Blocky/typy (3); mostly uniform, deeper eyes/ends, small (2)	Mostly round, deeper eyes, plump, smaller.	R x4, short x4, FBE x2, sticky x2
9	A11326-1	Typy (4); patchy skin, variable size (2) bad HH	Many round ones, plump, lumpy, deeper eyes.	sticky x3, spr x2, typy x2, nice x2
10	A11381-3	Short (4); round, nice skin (2)	Plump, very short, mostly round.	R x3, deep eyes x2, short x3, pty x2, SB x2
11	A12169-5	Blocky, misshapen, flat (3); lumpy, few points (2) bad GC	Deep eyes, shape irregular, lots of US #2's.	pty x3, bottle x4, pear x3, traingular x2, DB x2, GC x2
12	A12304-1sto	Nice uniform shape (3); some patchy skin (2)	Typy, light to medium russet. Smaller.	flakey x4, pty x4, short x3, typy x3, skinning x2
13	A13036-12	Typy (4); deep eyes, large (3); bit flat (2)	River rock, lumpy, round to oval. Deep eyes.	deep eyes x4, spr x2, pixel x4, sticky x3, rot x2
14	A13072-7	Typy (4); points, few curves (3); little flat (2) bad HH	Lumpy, shorter, points, lots of scab.	deep eyes x3, blocky x3, sticky x2, pty x3, R x2, nipple x2
15	A13091-5	Typy (4); nice skin, uniform (3)	Smaller, round.	deep eyes x2, R x4, sticky x2, tuberworm x2, short x3
16	AFA6346-2	Typy, little patchy skin (3); uniform, good eyes (2) bad green	Severe greening. Low yield, smaller.	pty x3, bottle x3, nipple x3, DB x2
17	AOR13064-2	Typy, flat, points (3); uniform, curves (2);	Smaller ones, short, oval, scab.	typy x4, rhizoc x4, FM x3, pixel x3, pty x2
18	COA13241-3	Typy (3); points, uniform (2) bad GC	Long, plump, typy. Light russetting.	pty x2, nipple x3, skinning x3, thin x3, bottle x3, stripey x3
19	COA14185-3	Points, curvres (4); blotchy skin (3)	Lumpy, mostly typy, some points.	pixel x2, lenticels x2, pty x3, skinning x3, curvy x4, typy x3

TABLE 21: 2022 Tri-State Harvest Potato Variety Trials
WASHINGTON STATE POSTHARVEST EVALUATIONS

Entry	Clone	Early		Late			
		Carton Yield		Carton Yield		PROCESS YIELD	
		100-50 count (US 1's 7-18 oz)		100-50 count (US 1's 7-18 oz)		US 1's and 2's > 6 oz	
		% of Total Yield	Tons/A	% of Total Yield	Tons/A	% of Total Yield	Tons/A
1	Clearwater Russet	40.7	7.8	49.2	16.1	63.4	20.9
2	Ranger Russet	52.1	12.5	50.6	18.8	73.5	27.5
3	Russet Burbank	53.9	7.3	47.2	16.0	68.4	23.2
4	Russet Norkotah	54.9	12.9	51.1	17.9	72.5	25.4
5	Shepody	39.5	4.4				
6	A09136-9LB	36.6	8.2	47.6	15.9	83.0	27.7
7	A10071-1	64.2	15.4	46.4	18.9	68.3	27.8
8	A11175-12TE			46.1	15.1	61.2	20.0
9	A11326-1			56.7	21.3	79.3	29.8
10	A11381-3	69.3	15.7	54.5	21.6	68.9	27.3
11	A12169-5	63.0	15.7	39.9	16.7	83.9	35.2
12	A12304-1sto	30.8	6.9	53.1	21.9	66.3	27.3
13	A13036-12	48.9	11.3	54.1	20.8	80.0	30.9
14	A13072-7	40.4	6.6	39.3	15.2	81.1	31.5
15	A13091-5	39.1	8.1	46.5	13.1	59.6	16.8
16	AFA6346-2	55.4	14.3	40.4	12.0	51.2	15.4
17	AOR13064-2	63.2	14.2	51.7	13.7	68.3	18.1
18	COA13241-3	47.4	11.7	52.8	17.8	77.1	26.3
19	COA14185-3	65.5	16.0	45.1	15.1	62.8	21.3
		50.9	11.1	48.5	17.1	70.5	25.1