



2023

TRI-STATE SPECIALTY
POTATO VARIETY
TRIAL REPORT

STATE EXPERIMENT STATIONS
AND USDA-ARS COOPERATING

Aberdeen, Idaho

Parma, Idaho

Othello, Washington

Klamath Falls, Oregon

2023 TRI-STATE SPECIALTY POTATO VARIETY TRIAL REPORT

TABLE

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Compiled by: Oksana Morgan

TABLE 1: 2023 Tri-State Specialty Potato Variety Trial - LOCATIONS, COOPERATORS, AND CULTURAL INFORMATION

Locations	Cooperators	Irrigation	Fertilizer N-P-K-S(lb/A)	Spacing		Planting Date	Vine Kill Date	Harvest Date	Days to Vine Kill	Days to Harvest	Herbicides	Insecticides	Fungicides
				In-row	Between Row								
Aberdeen Idaho (AB)	R. Spear R. Novy J. Whitworth C. Lowder	Sprinkler	305-140-130- 60S-5Zn	9	36	14-Apr	14-Aug	28-Aug	122	136	TriCor 4F Matrix Eptam 7-E	Admire Pro	
Parma Idaho (PA)	M. Thornton R. Portenier O.Morgan	Sprinkler	177-211-100-5Mn-4B	10	36	18-Apr	31-Jul	10-Aug	104	114	Sonalan Boundry Eptam 7E Matrix	Admire Pro	Quadris Bravo Endura Luna T Revus Top
Othello Washington (WA)	M. Pavek J. Blauer Z. Holden	Overhead Pivot	250-150-250	8	32	6-Apr	21-Jul	9-Aug	106	125	PreEmerge: Matrix Prowl H20 Eptam	Admire	Bravo Priaxor Zing Luna T
Klamath Falls Oregon (OR)	B. Charlton N. Baley	Solid Set	150-0-0-170S	9.25	36	18-May	6-Sep	29-Sep	111	134	Prowl Glory Eptam	Alias Vydate	Vertisan

TABLE 2: 2023 Tri-State Specialty Potato Variety Trial - CLONE, PARENTS, FLOWER COLOR, ENTERED BY, SEED SOURCE, STAND, AND STEM NO.

No Clone	Parents		Flower Color	Entered Trial by	Year	Seed Source	STAND (%)				Mean Stand %	STEM NO.			Stems/Plant
	Female	Male					AB	PA	OR	WA		AB	PA	WA	
1 Chieftain	LA1354	LA1027-18	Purple	Check	***	OR	*	90	95	84	90	*	2.9	2.3	2.6
2 Modoc	ND1196-2R	ND2225-1R	Purple	Check	***	OR	100	89	97	89	94	3.1	4.0	2.4	3.2
3 COOR15108-1	CO05228-4	CO07102-1R	White-Pink	OR	1	OR	100	89	93	90	93	4.3	3.9	2.6	3.6
4 POR17PG64-2	POR02PG5-1	POR01PG22-1	Lav-Pink	OR	1	OR	98	90	94	84	91	3.0	4.0	2.6	3.2
5 Yukon Gold	Norgleam	W5279-4	Pink	Check	***	OR	100	92	96	91	95	1.5	2.2	2.0	1.9
6 Bintje	Munstersen	Fransen	White	Check	***	OR	100	97	92	85	94	2.8	4.0	2.2	3.0
7 A11576-1Ysto	A02267-5PY	A05201-1Y	Dk Red-Purple	ID	3	ID	98	97	96	89	95	4.2	4.9	2.3	3.8
8 POR18PG37-4	POR15PG14-9	Yukon Nugget	White	OR	1	OR	98	83	97	76	89	2.6	4.5	2.5	3.2
9 Purple Majesty	All Blue	ND2008-2	Dark Purple	Check	***	OR	100	92	na	84	92	3.1	3.0	2.4	2.8
10 POR18GR54-1	TerraRossa	POR11PG48-1	White	OR	1	OR	95	96	98	80	92	1.8	2.2	2.1	2.0

TABLE 3: 2023 Tri-State Specialty Potato Variety Trial - VINE CHARACTERISTICS

No	Clone	Vine Size ¹				Vine Maturity ²			
		AB	PA	Means	Size	AB	PA	Means	Maturity
1	Chieftain	*	3.1	3.1	Med-large	*	2.8	2.8	Med Early
2	Modoc	1.0	2.3	1.6	Small	1.1	1.5	1.3	Early
3	COOR15108-1	1.3	3.3	2.3	Small	2.9	2.8	2.8	Med Early
4	POR17PG64-2	1.5	3.6	2.6	Medium	2.0	3.3	2.6	Med Early
5	Yukon Gold	1.5	2.9	2.2	Small	1.8	2.5	2.1	Early
6	Bintje	2.3	3.6	2.9	Medium	3.0	3.6	3.3	Medium
7	A11576-1Ysto	2.3	3.1	2.7	Medium	3.3	3.1	3.2	Medium
8	POR18PG37-4	2.0	3.5	2.8	Medium	2.6	2.4	2.5	Early
9	Purple Majesty	1.0	3.1	2.1	Small	1.5	1.6	1.6	Early
10	POR18GR54-1	1.0	2.6	1.8	Small	1.0	1.5	1.3	Early

¹ 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

² 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 4: 2023 Tri-State Specialty Potato Variety Trial - TOTAL YIELD AND SPECIFIC GRAVITY

No. Clone	TOTAL YIELD (CWT/A)					SPECIFIC GRAVITY				
	AB	PA	OR	WA	Entry Mean	AB	PA	OR	WA	Entry Mean
1 Chieftain	*	320	524	786	543	*	1.073	1.074	1.060	1.069
2 Modoc	314	234	349	661	389	1.070	1.061	1.069	1.057	1.065
3 COOR15108-1	278	265	343	494	345	1.087	1.087	1.087	1.068	1.082
4 POR17PG64-2	272	389	431	797	472	1.065	1.069	1.067	1.059	1.065
5 Yukon Gold	259	340	368	628	399	1.083	1.081	1.085	1.073	1.081
6 Bintje	370	416	528	659	493	1.078	1.084	1.090	1.069	1.080
7 A11576-1Ysto	455	337	554	850	549	1.080	1.078	1.087	1.070	1.079
8 POR18PG37-4	307	235	366	500	352	1.068	1.076	1.074	1.063	1.070
9 Purple Majesty	335	290	*	721	449	1.081	1.080	*	1.068	1.076
10 POR18GR54-1	222	237	298	704	365	1.064	1.066	1.051	1.055	1.059
Location Means	313	343	514	680		1.075	1.076	1.070	1.064	

TABLE 5: 2023 Tri-State Specialty Potato Variety Trial - YIELD < 4 OZ (CWT/A & %)

No. Clone	0-2 OZ or C's <1.34" (CWT/A)%						2-4 OZ or B's <2.25" (CWT/A)%					
	AB	PA	OR	WA	Entry Mean	Rank	AB	PA	OR	WA	Entry Mean	Rank
1 Chieftain	*	8	2	20	10	8	*	27	27	108	54	8
	*	3	0	3	2	9	*	8	5	14	9	9
2 Modoc	41	16	17	39	28	7	128	61	65	160	104	7
	13	7	5	6	8	6	41	27	19	24	28	5
3 COOR15108-1	71	47	56	89	66	3	130	108	147	232	154	4
	26	20	16	18	20	2	47	41	43	47	45	1
4 POR17PG64-2	90	42	23	56	53	5	118	90	84	190	121	5
	33	11	5	7	14	4	43	24	20	24	28	5
5 Yukon Gold	14	5	4	17	10	8	42	16	25	58	35	9
	5	1	1	3	3	8	16	5	7	9	9	8
6 Bintje	37	41	16	35	32	6	116	88	58	158	105	6
	10	10	3	5	7	7	31	22	11	24	22	7
7 A11576-1Ysto	107	30	30	68	59	4	190	105	132	304	183	1
	23	9	5	8	11	5	42	31	24	36	33	4
8 POR18PG37-4	169	53	83	112	104	1	108	104	155	251	155	3
	55	22	23	22	31	1	35	44	42	50	43	2
9 Purple Majesty	111	30	*	71	71	2	150	87	*	258	165	2
	33	10	*	10	18	3	45	29	*	36	37	3
10 POR18GR54-1	6	2	2	7	4	10	36	8	6	21	18	10
	3	1	1	1	2	10	13	4	2	3	6	10
Location Means	72	27	26	51			113	69	78	174		
	22	9	7	8			35	24	19	27		

TABLE 6: 2023 Tri-State Specialty Potato Variety Trial - YIELD US NO.1 4-6 OZ. AND 6-10 OZ. (CWT/A & %)

No. Clone	4-6 OZ (CWT/A)/%						6-10 OZ (CWT/A)/%					
	AB	PA	OR	WA	Entry Mean	Rank	AB	PA	OR	WA	Entry Mean	Rank
1 Chieftain	*	50	70	160	93	6	*	102	197	310	203	1
	*	16	13	20	16	9	*	32	38	39	36	1
2 Modoc	104	61	94	183	111	4	36	66	123	201	107	6
	33	27	27	28	29	2	11	26	35	30	26	5
3 COOR15108-1	56	66	96	114	83	7	10	39	39	55	36	9
	20	24	28	23	24	5	4	13	11	11	10	9
4 POR17PG64-2	40	102	149	223	129	2	10	108	147	262	132	3
	15	26	35	28	26	3	4	27	34	33	25	6
5 Yukon Gold	65	40	64	79	62	9	97	104	159	157	129	4
	25	13	17	13	17	8	37	31	43	25	34	3
6 Bintje	114	102	123	146	121	3	72	122	185	192	143	2
	31	24	23	22	25	4	20	30	35	29	29	4
7 A11576-1Ysto	106	110	212	324	188	1	37	78	152	143	103	7
	23	33	38	38	33	1	8	23	27	17	19	7
8 POR18PG37-4	22	52	106	105	71	8	4	20	14	30	17	10
	7	23	29	21	20	7	1	9	4	6	5	10
9 Purple Majesty	43	72	*	200	105	5	14	76	*	139	76	8
	13	25	*	28	22	6	4	26	*	19	16	8
10 POR18GR54-1	63	20	39	50	43	10	101	66	116	196	120	5
	28	9	13	7	14	10	45	28	39	28	35	2
Location Means	68	68	106	158			42	78	126	169		
	22	22	25	23			15	25	30	24		

TABLE 7: 2023 Tri-State Specialty Potato Variety Trial - YIELD US NO.1 >10 OZ. AND CULL (CWT/A & %)

No. Clone	>10 OZ (CWT/A)/%						CULLS (CWT/A)/%					
	AB	PA	OR	WA	Entry		AB	PA	OR	WA	Entry	
					Mean	Rank					Mean	Rank
1 Chieftain	*	117	188	188	164	2	*	16	40	48	35	3
	*	37	36	24	32	3	*	5	8	6	6	3
2 Modoc	2	19	32	78	33	5	4	11	18	50	21	5
	1	8	9	12	8	5	1	4	5	8	5	4
3 COOR15108-1	2	5	0	4	3	9	9	0	5	14	7	10
	1	2	0	1	1	9	3	0	1	3	2	9
4 POR17PG64-2	0	40	14	65	30	6	15	7	13	12	12	8
	0	10	3	8	5	6	5	2	3	2	3	7
5 Yukon Gold	31	159	96	318	151	3	8	17	19	28	18	6
	13	46	26	51	34	2	3	5	5	4	4	6
6 Bintje	7	21	50	127	51	4	23	44	97	135	75	1
	2	4	9	19	9	4	6	10	18	21	14	1
7 A11576-1Ysto	6	11	5	10	8	8	10	3	23	34	18	7
	1	3	1	1	2	8	2	1	4	4	3	8
8 POR18PG37-4	0	3	0	2	1	10	4	4	7	16	8	9
	0	1	0	0	0	10	1	1	2	3	2	9
9 Purple Majesty	0	23	*	54	26	7	17	3	*	49	23	4
	0	8	*	7	5	7	5	1	*	7	4	5
10 POR18GR54-1	14	132	107	430	171	1	2	9	29	109	37	2
	6	55	36	61	40	1	1	4	10	15	8	2
Location Means	7	46	38	121			10	11	28	50		
	3	15	11	18			3	3	6	7		

TABLE 8: 2023 Tri-State Specialty Potato Variety Trial - TUBER SHAPE AND LENGTH/WIDTH RATIO

No. Clone	Tuber Shape ¹					Length/Width Ratio			
	AB	WA	OR	Entry Means		AB	PA	OR	Entry Means
1 Chieftain	*	1.0	3.5	2.3	Oval	*	1.20	1.50	1.35
2 Modoc	1.5	2.0	2.5	2.0	Round	1.21	1.17	1.36	1.24
3 COOR15108-1	1.1	1.0	1.8	1.3	Round	1.04	1.07	1.23	1.11
4 POR17PG64-2	2.4	2.0	3.3	2.5	Oval	1.36	1.45	1.70	1.50
5 Yukon Gold	1.6	1.0	2.9	1.8	Round	1.06	1.13	1.37	1.19
6 Bintje	2.9	4.0	4.8	3.9	Obl-Lng	1.38	1.66	1.73	1.59
7 A11576-1Ysto	1.6	1.3	1.8	1.5	Round	1.11	1.10	1.33	1.18
8 POR18PG37-4	1.4	1.0	1.0	1.1	Round	1.15	1.23	1.40	1.26
9 Purple Majesty	2.1	2.3	*	2.2	Oval	1.22	1.65	*	1.44
10 POR18GR54-1	2.0	2.0	3.1	2.4	Oval	1.07	1.23	1.80	1.37
Location Means	1.8	1.8	2.7			1.2	1.3	1.5	

¹ 1.0-2.0=Round, 2.1-2.5=Oval, 2.6-3.5=Blocky, 3.6-4.0=Oblong, 4.1-5.0=Long

TABLE 9: 2023 Tri-State Specialty Potato Variety Trial - TUBER SIZE and TUBERS PER PLANT

No. Clone	Average Tuber Size (oz)					Tubers per Plant				
	AB	PA	OR	WA	Entry Means	AB	PA	OR	WA	Entry Means
1 Chieftain	*	7.0	7.3	5.7	6.7	*	4.7	6.3	8.9	6.6
2 Modoc	3.5	4.2	3.6	4.4	3.9	7.4	5.8	8.2	9.8	7.8
3 COOR15108-1	2.8	2.8	2.3	2.8	2.7	8.2	9.8	13.3	11.6	10.7
4 POR17PG64-2	2.6	3.8	3.3	4.2	3.5	8.7	10.6	11.5	12.3	10.8
5 Yukon Gold	5.1	7.8	6.2	7.1	6.5	4.2	4.4	5.1	5.8	4.9
6 Bintje	3.7	3.8	4.3	4.7	4.1	8.3	10.4	11.2	9.3	9.8
7 A11576-1Ysto	3.0	3.7	3.5	3.6	3.4	13.0	8.8	13.8	15.4	12.7
8 POR18PG37-4	2.3	2.6	2.0	2.6	2.4	11.3	10.0	16.0	12.5	12.5
9 Purple Majesty	2.7	3.8	*	3.6	3.4	10.2	7.9	*	13.0	10.4
10 POR18GR54-1	5.1	9.4	6.6	9.0	7.5	3.8	2.4	3.8	5.1	3.8
Location Means	3.4	4.9	4.3	4.8		8.4	7.5	9.9	10.4	

TABLE 10: 2023 Tri-State Specialty Potato Variety Trial - EYE DEPTH, TUBER SKIN AND FLESH COLOR

No. Clone	Eye Depth ¹				Skin Color ²					Flesh Color		
	AB	OR	WA	Entry Means	AB	PA	OR	WA	Entry Means	PA	OR	
1 Chieftain	*	3.3	2.8	3.0	*	1.8	2.9	3.0	2.6	Red	White	White
2 Modoc	3.9	3.4	4.0	3.8	3.0	3.0	3.4	4.0	3.3	Red	White	White
3 COOR15108-1	3.5	3.5	3.8	3.6	3.0	4.0	3.0	4.0	3.5	Red	White	White
4 POR17PG64-2	3.5	3.9	4.0	3.8	4.0	3.0	3.6	4.0	3.7	Red	Red	Pink
5 Yukon Gold	2.9	3.8	2.0	2.9	3.0	2.0	2.0	3.0	2.5	Yellow	Yellow	Yellow
6 Bintje	2.4	3.5	2.0	2.6	2.0	2.0	2.6	1.0	1.9	Yellow	Yellow	Yellow
7 A11576-1Ysto	2.3	3.4	4.0	3.2	2.3	2.0	3.1	2.0	2.3	Yellow	Yellow	Yellow
8 POR18PG37-4	2.9	4.3	4.0	3.7	2.0	2.0	3.0	1.0	2.0	Yellow	Yellow	Yellow
9 Purple Majesty	3.5	*	4.0	3.8	5.0	5.0	*	5.0	5.0	Purple	Purple	*
10 POR18GR54-1	2.8	2.4	1.0	2.1	5.0	5.0	5.0	4.0	4.8	Purple	Purple	Purple
Location Means	3.1	3.5	3.2		3.3	3.0	3.2	3.1				

¹ Scale of 1-5; 1=deep, 5=shallow

² Scale of 1-5 with higher number more intense color.

TABLE 11: 2023 Tri-State Specialty Potato Variety Trial - TUBER APPEARANCE, UNIFORMITY, MERIT

No. Clone	Appearance ¹					Uniformity ¹				Merit Score ¹			
	AB	PA	OR	WA	Entry Means	AB	OR	WA	Entry Means	AB	PA	WA	Entry Means
1 Chieftain	*	3.0	1.3	3.0	2.4	*	2.1	3.0	2.6	*	2.5	3.0	2.8
2 Modoc	3.9	4.0	3.8	3.3	3.7	3.6	3.8	3.0	3.5	3.5	4.0	3.3	3.6
3 COOR15108-1	3.9	4.5	3.8	4.0	4.0	4.0	3.9	4.0	4.0	3.9	4.5	4.0	4.1
4 POR17PG64-2	1.6	3.0	4.0	2.3	2.7	2.5	3.5	2.5	2.8	2.4	3.0	2.3	2.5
5 Yukon Gold	3.0	3.8	2.1	2.0	2.7	2.6	3.0	2.0	2.5	2.8	3.0	2.0	2.6
6 Bintje	3.8	2.0	2.9	1.0	2.4	1.9	1.6	1.0	1.5	1.6	1.0	1.0	1.2
7 A11576-1Ysto	3.8	4.0	2.9	3.3	3.5	3.5	3.1	3.3	3.3	3.0	4.0	3.3	3.4
8 POR18PG37-4	4.0	4.0	4.1	2.0	3.5	4.0	4.4	4.0	4.1	3.4	4.0	2.0	3.1
9 Purple Majesty	1.6	3.0	*	2.0	2.2	2.9	*	2.3	2.6	2.3	3.0	2.0	2.4
10 POR18GR54-1	1.7	4.0	2.5	1.0	2.3	2.5	2.5	2.0	2.3	2.2	3.5	1.0	2.2
Location Means	3.0	3.5	3.0	2.4		3.1	3.1	2.7		2.8	3.3	2.4	

¹ Scale of 1-5; 5=best

TABLE 12: 2023 Tri-State Specialty Potato Variety Trial - EXTERNAL DEFECTS

No. Clone	Skinning ¹					Shatter ¹					Greening ¹					Scab ¹			
	AB	PA	OR	WA	Entry Means	AB	PA	OR	WA	Entry Means	AB	PA	OR	WA	Entry Means	AB	PA	WA	Entry Means
1 Chieftain	*	4.0	1.9	2.8	2.9	*	5.0	3.3	3.0	3.8	*	4.8	5.0	4.8	4.8	*	5.0	5.0	5.0
2 Modoc	3.9	4.7	5.0	4.0	4.4	4.9	4.3	4.0	3.0	4.0	5.0	5.0	5.0	4.3	4.8	3.8	5.0	5.0	4.6
3 COOR15108-1	3.1	4.0	4.1	2.8	3.5	5.0	5.0	4.8	5.0	4.9	5.0	5.0	5.0	4.3	4.8	3.5	5.0	5.0	4.5
4 POR17PG64-2	4.6	3.3	5.0	4.0	4.2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.3	4.8	4.0	5.0	4.3	4.4
5 Yukon Gold	4.6	5.0	5.0	4.0	4.7	5.0	5.0	3.9	5.0	4.7	4.3	4.5	4.8	5.0	4.6	2.9	4.5	5.0	4.1
6 Bintje	5.0	4.0	5.0	3.0	4.3	5.0	5.0	5.0	5.0	5.0	4.9	3.8	5.0	3.0	4.2	3.4	4.8	2.0	5.0
7 A11576-1Ysto	5.0	4.7	4.9	4.0	4.6	5.0	5.0	4.8	4.0	4.7	4.6	4.5	5.0	3.8	4.5	3.4	5.0	5.0	4.5
8 POR18PG37-4	5.0	5.7	5.0	3.3	4.7	5.0	5.0	4.6	5.0	4.9	4.6	4.5	4.9	4.0	4.5	2.8	5.0	3.0	3.6
9 Purple Majesty	4.6	5.0	*	5.0	4.9	5.0	5.0	*	5.0	5.0	5.0	5.0	*	5.0	5.0	3.8	5.0	5.0	4.6
10 POR18GR54-1	4.7	4.0	3.9	4.0	4.1	5.0	5.0	3.1	4.0	4.3	5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	4.7
Location Means	4.5	4.4	4.4	3.7		5.0	4.9	4.3	4.4		4.8	4.7	5.0	4.3		3.5	4.9	4.4	

¹ Scale of 1-5; 5=none

TABLE 13: 2023 Tri-State Specialty Potato Variety Trial - INTERNAL DEFECTS

No. Clone	Hollow Heart plus Brown Center (%)					Internal Brown Spot (%)					Net Necrosis/ Vascular Discoloration (%)			
	AB	PA	OR	WA	Entry Means	AB	PA	OR	WA	Entry Means	AB	OR	WA	Entry Means
1 Chieftain	*	2.5	0.0	0.0	0.8	*	15.0	5.0	0.0	6.7	*	15.0	0.0	7.5
2 Modoc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	1.9	0.0	2.5	0.0	0.8
3 COOR15108-1	0.0	0.0	2.5	0.0	0.6	0.0	0.0	2.5	0.0	0.6	0.0	5.0	3.4	2.8
4 POR17PG64-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	2.5	0.0	7.5	0.0	2.5
5 Yukon Gold	0.0	0.0	2.5	0.0	0.6	0.0	27.0	10.0	0.0	9.3	0.0	5.0	10.0	5.0
6 Bintje	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	0.0	3.1	0.0	15.0	14.3	9.8
7 A11576-1Ysto	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.6	0.0	0.0	3.3	1.1
8 POR18PG37-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	1.3	0.0	5.0	4.8	3.3
9 Purple Majesty	0.0	3.3	*	3.3	2.2	0.0	0.0	*	0.0	0.0	0.0	*	0.0	0.0
10 POR18GR54-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.8
Location Means	0.0	0.6	0.6	0.3		0.0	4.2	6.1	0.0		0.0	6.4	3.6	

**TABLE 14: 2023 Tri-State Specialty Potato Variety Trial - SOLIDS, ANTIOXIDANTS, VITAMIN C,
AND GLYCOALKALOIDS - ABERDEEN**

No. Clone	Solids Oven Dry (%)	Antioxidants (ug/g FWB)	Vitamin C (mg/100g FWB)	Glycoalkaloids (mg/100g FWB)
1 Chieftain	*	*	*	*
2 Modoc	17.8	354.7	28.0	4.4
3 COOR15108-1	21.2	352.9	27.6	3.3
4 POR17PG64-2	16.9	1810.0	24.1	6.6
5 Yukon Gold	21.7	374.8	41.4	5.1
6 Bintje	19.3	383.6	28.6	3.6
7 A11576-1Ysto	19.7	370.4	29.5	7.1
8 POR18PG37-4	17.8	500.4	23.4	4.9
9 Purple Majesty	20.8	1412.3	30.6	5.0
10 POR18PG54-1	16.5	1295.2	29.6	2.6
Means	19.09	761.60	29.20	4.75

TABLE 15: 2023 Tri-State Specialty Potato Variety Trial - OTHER

No.	Clone	Early Blight	Verticillium Wilt	Rot	Metribuzin Reaction	Days until sprouts
		AB	AB	AB	AB	PA
1	Chieftain	*	*	*	R	
2	Modoc	1.1	1.0	0.0	MR	
3	COOR15108-1	3.9	4.0	0.0	MR	
4	POR17PG64-2	2.4	2.8	0.0	R	
5	Yukon Gold	2.3	2.5	1.0	VR	
6	Bintje	3.9	4.0	0.0	R	
7	A11576-1Ysto	3.4	4.3	0.0	R	
8	POR18PG37-4	3.3	3.0	0.3	MR	
9	Purple Majesty	1.6	2.5	0.0	R	
10	POR18GR54-1	1.0	1.0	0.0	R	
		2.5	2.8	0.2		

Scale of 1-5; 5=none Scale of 1-5; 5 = none

TABLE 16: 2023 Tri-State Specialty Potato Variety Trial - COMMENTS

Clone	ABERDEEN	PARMA	KLAMATH FALLS	OTHELLO
1 Chieftain	*	typical	skinning, misshaped bronzed	Larger red, deep eyes.
2 Modoc	Few pear, few bumps (3); nice color, few ats (2)	pointed	little bronzing, looks nice	Nice oblong red, some pear shapes.
3 COOR15108-1	Round, uniform, few ats (4)	uniform	baby red, some skinning, sticky stolons x2	Nice deep red, skin set not so good. Shallow eyes.
4 POR17PG64-2	Silvering (4); points, oblong, ats (3); misshapen (2)	skinning	cool color, bronzing	Deep red, some irregular shapes, bronzing, scab.
5 Yukon Gold	Flat (4); big, deep eyes, scab (3)	heat necrosis	Shatter bruise, few misshapes	Larger, shape a bit irregular. Russeting.
6 Bintje	Not uniform (4); some long some round, lumpy, misshapen (3); deeper eyes (2)	sprouting, irregular, second grow	sprouting, misshapes, lent, scaring	Garbage, looks like Shepody. Irregular shapes, scab.
7 A11576-1Ysto	Deeper eyes (4); lumpy (3); few ats (2)	few pointed	rhizoc, not bad	Like a smaller Yukon Gold, pink eyes. Nice yellow.
8 POR18PG37-4	Scab, round (4); small, uniform (3); deeper eyes, lumpy (2)	uniform	some sprouting, lent. Scaring	Smaller, yellow, with some skin finish issues.
9 Purple Majesty	Silvering, some ats (4); some round, some oblong, few misshapen (2)	typical	*	Irregular shapes, big size range, russeting.
10 POR18GR54-1	Silvering, few ats (2)	deep eyes	low set, poor skin, ugly	Very large, deep eyes, bronzing. Ugly.

TABLE 17: 2023 Tri-State Specialty Potato Variety Trial - Multi-Year Summary *

Cultivar/Breeding line	2021			2022			2023			Average		
	Total Yield	Premium Yield (2-6oz)	Merit	Total Yield	Premium Yield (2-6oz)	Merit	Total Yield	Premium Yield (2-6oz)	Merit	Total Yield	Premium Yield (2-6oz)	Merit
Chieftain	580	237	2.7	528	192	2.9	543	147	2.8	550	192	2.8
Yukon Gold	398	61	3.0	340	56	3.0	445	94	2.5	394	70	2.8
A11576-1Ysto	566	409	3.7	395	272	3.6	580	288	3.7	514	323	3.6

* Average for all reporting locations in that year

2023 Tri-State Specialty Potato Variety Photos

Taken at Parma, Idaho



Chieftain



Modoc



COOR15108-1



Yukon Gold



Bintje



A11576-1Ysto



POR18PG37-4



Purple Majesty



POR18GR54-1



POR17PG64-2