

2015
TRI-STATE SPECIALTY
POTATO VARIETY TRIAL REPORT

STATE EXPERIMENT STATIONS AND
USDA-ARS COOPERATING

Aberdeen, Idaho

Parma, Idaho

Klamath Falls, Oregon

Othello, Washington



2015 TRI-STATE SPECIALTY POTATO VARIETY TRIAL REPORT

TABLE

- 1 Locations, Cooperators, and Cultural Information
- 2 Clone, Parents, Seed Source, Stand, Stems per plant
- 3 Vine Characteristics
- 4 Total Yield (CWT/A) - Specific Gravity
- 5 Yield of Tubers Under 4 oz. (CWT/A & %)
- 6 Yield of U.S. No. 1's (CWT/A & %) - 4-6 oz. and 6-10 oz.
- 7 Yield of U.S. No. 1's Over 10 oz. and Culls (CWT/A & %)
- 8 Average Tuber Size, and Tuber Shape
- 9 Tuber Characteristics - Eye Depth, Skin Color, Flesh Color
- 10 Tuber Appearance - Appearance, Uniformity, Merit
- 11 External Defects - Skinning, Shatter Bruise, Greening, and Scab
- 12 Internal Defects - Hollow Heart/Brown Center, Internal Brown Spot, Vascular Discoloration
- 13 Solids, Dextrose, Sucrose, Protein, Vitamin C, and Glycoalkaloids - Aberdeen
- 14 Culinary Results
- 15 Other Data
- 16 Summary of Entries' Performance
- 17 Trial Comments and Information by Location

Compiled by: Oksana Adams

TABLE 1: 2015 Tri-State Specialty Potato Variety Trial - LOCATIONS, COOPERATORS, AND CULTURAL INFORMATION

Locations	Cooperators	Irrigation	Fertilizer N-P-K-S(lb/A)	Planting Date	Vine Kill Date	Harvest Date	Days to Vine Kill	Days to Harvest	Herbicides	Insecticides	Fungicides
Aberdeen Idaho (AB)	J. Stark J Hatch P. Bain R. Novy J. Whitworth C. Lowder	Sprink.	215-110-305	5-May	18-Aug	8-Sep	105	126	Eptam 7E TriCor 4F Matrix Reglone	Admire	Bravo Gavel
Parma Idaho (PA)	M. Thornton R. Portenier O. Adams	Sprink.	177-80-100	8-Apr	3-Aug	7-Aug	117	121	Prowl Outlook Eptam	Admire Pro Movento	Gavel Endura Quadris Luna T Zing!
Klamath Falls Oregon (OR)	B. Charlton N. Baley	Sprinkler Solid set	181-125-150-231	14-May	21-Aug	17-Sep	99	126	Prowl Matrix Outlook	Alias Movento Transform	Moncut Ridomil/Bravo Manzate Luna
Othello Washington (WA)	M. Pavek R. Knowles N. Fuller Z. Holden	Linear	100 + 150 + 200+ 40 + 2B	31-Mar	17-Jul	4-Aug	108	126	PreEmerge: Outlook Prowl H20 Metribuzin Post Emerge: Eptam Matrix	Platinum	Luna Traquility Chlorinil 720 Priaxor

TABLE 2: 2015 Tri-State Specialty Potato Variety Trial - CLONE, PARENTS, FLOWER COLOR, ENTERED BY, SEED SOURCE, STAND, AND STEM NO.

No Clone	Parents		Flower Color	Entered by	Trial Year	Seed Source	STAND (%)				Mean Stand %	STEM NO.			Stems/Plant
	Female	Male					AB	PA	OR	WA		AB	PA	WA	
1 Chieftain	***	***	Red-purple	Check	***	OR	98	97	94	90	95	2.3	2.1	2.2	2.2
2 NDA050237B-1R	ND028678-1RY	ND028770B-4R	Dk Red-purple	ID	6	ID	99	99	95	88	95	2.1	2.0	2.0	2.0
3 A05180-3PY	Pinto(ATND9331-2)	VC1075-1R	Dk Red-purple	ID	3	ID	99	100	98	89	96	3.8	2.7	2.3	2.9
4 COA07365-4RY	US147-96	CO99256-2R	Med Red-purple	ID	3	ID	99	97	98	90	96	3.9	1.9	2.8	2.9
5 Yukon Gold	Norgleam	W5279-4	Pink	Check	***	OR	98	94	92	85	92	2.4	1.9	2.0	2.1
6 A06336-5Y	VC1009-W/Y	US147-96R/Y	Lt Red-purple	ID	2	ID	93	92	97	86	92	5.4	3.6	3.8	4.3
7 A05182-7Y	ATND93331-2	A99433-5Y	White	ID	4	ID	99	99	96	80	93	3.1	2.3	2.1	2.5
8 AOR06267-3	A99331-2RY	Villeta Rose	Purple	OR	1	OR	99	95	97	81	93	3.4	2.1	2.4	2.7
9 NDA081451CB-1CY	Dakota Diamond	ND039173CAB-22	White	OR	4	OR	100	97	96	93	97	3.8	2.6	2.8	3.0

TABLE 3: 2015 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	3.0	2.3	2.6	Medium	3.5	3.0	3.3	Medium
2	NDA050237B-1R	3.8	3.8	3.8	Med-large	4.0	4.0	4.0	Med-late
3	A05180-3PY	3.3	3.0	3.1	Med-large	3.0	4.8	3.9	Med-late
4	COA07365-4RY	3.0	2.0	2.5	Small	3.3	3.0	3.1	Medium
5	Yukon Gold	2.5	3.0	2.8	Medium	2.0	2.0	2.0	Early
6	A06336-5Y	2.3	2.5	2.4	Small	2.3	2.3	2.3	Early
7	A05182-7Y	3.5	3.5	3.5	Med-large	4.0	4.0	4.0	Med-late
8	AOR06267-3	3.3	3.5	3.4	Med-large	4.0	4.0	4.0	Med-late
9	NDA081451CB-1CY	3.8	4.0	3.9	Med-large	4.0	4.8	4.4	Late

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: 2015Tri-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	455	532	593	659	560	1.071	1.068	1.072	1.075	1.071
2 NDA050237B-1R	331	451	605	342	432	1.059	1.063	1.070	1.067	1.065
3 A05180-3PY	460	523	700	373	514	1.067	1.063	1.080	1.058	1.067
4 COA07365-4RY	338	344	483	479	411	1.067	1.069	1.074	1.069	1.070
5 Yukon Gold	372	334	499	517	430	1.084	1.077	1.082	1.068	1.077
6 A06336-5Y	453	303	464	519	435	1.075	1.062	1.071	1.079	1.072
7 A05182-7Y	374	435	702	486	499	1.067	1.074	1.077	1.073	1.073
8 AOR06267-3	188	273	373	129	241	1.075	1.069	1.075	1.074	1.073
9 NDA081451CB-1CY	448	479	683	495	526	1.072	1.087	1.092	1.062	1.078
Location Means	380	408	567	444	450	1.071	1.070	1.077	1.069	1.072

TABLE 5: 2015 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		AB	PA	OR	WA	Entry	
					Mean	Rank					Mean	Rank
1 Chieftain	7	46	7	24	21	8	33	48	49	103	58	8
	1	8	1	4	3	8	7	9	8	16	10	9
2 NDA050237B-1R	33	28	17	42	30	7	113	66	116	135	108	6
	10	7	3	12	8	6	34	15	19	40	27	6
3 A05180-3PY	33	49	20	41	36	6	111	132	81	125	112	5
	7	9	3	11	8	7	24	25	12	34	24	7
4 COA07365-4RY	72	46	19	34	43	4	176	102	109	114	125	4
	21	14	4	7	11	4	52	30	23	24	32	4
5 Yukon Gold	10	16	8	9	11	9	34	51	47	52	46	9
	3	5	2	2	3	9	9	16	9	10	11	8
6 A06336-5Y	87	70	40	79	69	1	238	164	254	305	240	1
	19	22	9	15	16	2	53	55	55	59	55	1
7 A05182-7Y	76	63	30	63	58	2	142	147	175	189	163	2
	20	14	4	13	13	3	38	35	25	39	34	3
8 AOR06267-3	48	55	52	44	50	3	74	118	127	73	98	7
	25	21	14	34	23	1	39	43	34	57	43	2
9 NDA081451CB-1CY	41	50	15	58	41	5	107	124	122	205	139	3
	9	11	2	12	8	5	24	27	18	41	27	5
Location Means	45	47	23	44	40		114	106	120	144	121	
	13	12	5	12	10		31	28	23	36	29	

TABLE 6: 2015 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	42	88	75	162	92	6	109	189	173	222	173	1
	9	17	13	25	16	9	24	35	29	34	31	2
2 NDA050237B-1R	110	84	127	98	105	5	64	116	159	56	99	6
	33	19	21	29	26	5	19	25	26	16	21	5
3 A05180-3PY	121	159	101	125	126	3	123	130	182	80	128	4
	26	30	14	33	26	4	27	25	26	21	25	3
4 COA07365-4RY	67	100	149	135	113	4	20	76	119	137	88	7
	20	29	31	28	27	3	6	22	25	29	21	6
5 Yukon Gold	49	71	94	73	72	8	125	99	162	215	150	2
	13	22	19	14	17	8	33	29	32	42	34	1
6 A06336-5Y	95	55	104	105	89	7	28	9	17	10	16	9
	21	19	22	20	20	6	6	3	4	2	4	9
7 A05182-7Y	87	110	202	148	137	2	52	91	188	74	101	5
	23	26	29	31	27	2	14	20	27	15	19	7
8 AOR06267-3	51	64	83	12	53	9	12	16	53	0	20	8
	27	23	22	9	20	7	6	6	14	0	6	8
9 NDA081451CB-1CY	116	146	171	153	146	1	129	122	204	59	129	3
	26	31	25	31	28	1	29	24	30	12	24	4
Location Means	82	97	123	112	104		73	94	139	95	100	
	22	24	22	24	23		18	21	24	19	20	

TABLE 7: 2015 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 Mean	Rank	AB	PA	OR	WA	Entry Mean	Rank
1 Chieftain	224	113	114	130	145	1	40	50	175	17	70	1
	49	21	19	20	27	2	9	10	30	3	13	1
2 NDA050237B-1R	6	151	50	10	54	3	4	7	135	2	37	4
	2	32	8	3	11	3	1	2	22	1	6	4
3 A05180-3PY	45	30	102	3	45	4	27	24	216	0	67	2
	10	6	15	1	8	4	6	4.6	31	0	10	2
4 COA07365-4RY	0	11	4	46	15	6	3	9	83	14	27	6
	0	4	1	10	4	6	1	2	17	3	6	7
5 Yukon Gold	143	96	90	159	122	2	10	0	100	10	30	5
	38	28	18	31	29	1	3	0.0	20	2	6	5
6 A06336-5Y	1	0	0	0	0	9	4	6	50	21	20	8
	0	0	0	0	0	9	1	2	11	4	5	8
7 A05182-7Y	7	19	29	0	14	7	11	6	78	11	26	7
	2	5	4	0	3	7	3	1	11	2	4	9
8 AOR06267-3	1	0	3	0	1	8	2	20	54	0	19	9
	1	0	1	0	1	8	1	8	15	0	6	6
9 NDA081451CB-1CY	11	23	75	0	27	5	44	15	97	19	44	3
	2	4	11	0	4	5	10	4	14	4	8	3
Location Means	49	49	52	39	47		16	15	110	10	38	
	12	11	9	7	10		4	4	19	2	7	

TABLE 8: 2015 Tri-State Specialty Potato Variety Trial - AVERAGE TUBER SIZE AND SHAPE

No. Clone	Average Tuber Size (oz)					Tuber Shape ¹					(Length/Width Ratio)			
	AB	PA	OR	WA	Entry Means	AB	OR	WA	Entry Means		AB	PA	OR	Entry Means
1 Chieftain	7.4	5.9	7.4	5.6	6.6	3.1	3.6	1.3	2.7	Blocky	1.44	1.12	1.44	1.34
2 NDA050237B-1R	3.4	4.6	4.9	3.5	4.1	1.8	2.0	1.0	1.6	Round	1.29	1.05	1.24	1.19
3 A05180-3PY	3.8	3.5	5.7	3.6	4.2	2.5	2.3	1.0	1.9	Round	1.20	1.07	1.17	1.15
4 COA07365-4RY	2.5	3.3	4.3	4.4	3.6	1.6	2.5	1.0	1.7	Round	1.23	1.11	1.39	1.24
5 Yukon Gold	6.6	4.4	6.3	7.0	6.1	2.5	2.9	1.0	2.1	Oval	1.32	1.09	1.27	1.23
6 A06336-5Y	2.5	1.9	2.9	2.9	2.5	1.9	1.3	1.0	1.4	Round	1.30	1.04	1.22	1.19
7 A05182-7Y	2.6	2.9	4.4	3.4	3.3	2.0	2.4	1.0	1.8	Round	1.39	1.20	1.38	1.32
8 AOR06267-3	2.4	2.5	3.2	2.3	2.6	3.9	4.1	4.3	4.1	Long	2.19	1.77	2.07	2.01
9 NDA081451CB-1CY	3.4	3.6	5.1	3.3	3.9	2.3	2.5	1.0	1.9	Round	1.20	1.10	1.23	1.18
Location Means	3.8	3.6	4.9	4.0	4.1	2.4	2.6	1.4	2.1		1.40	1.17	1.38	1.32

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: 2015 Tri-State Specialty Potato Variety Trial - EYE DEPTH, TUBER SKIN AND FLESH COLOR

No. Clone	Eye Depth ¹				Skin Color ²					Flesh Color ²					
	AB	OR	WA	Entry Means	AB	PA	OR	WA	Entry Means		AB	PA	OR	Entry Means	
1 Chieftain	3.0	3.6	3.3	3.3	3.0	1.5	3.0	2.0	2.4	Red	W	1.0	1.0	1.0	White
2 NDA050237B-1R	3.6	4.3	2.7	3.5	3.9	4.0	4.0	4.7	4.1	Dark Red	W	1.0	1.0	1.0	White
3 A05180-3PY	3.9	3.8	2.0	3.2	3.9	4.5	4.0	4.7	4.3	Purple	Y	3.0	1.9	2.4	Yellow
4 COA07365-4RY	4.1	4.1	4.0	4.1	4.0	3.0	4.3	4.0	3.8	Red	Y	3.0	2.0	2.5	Yellow
5 Yukon Gold	3.6	4.4	3.0	3.7	2.0	3.0	1.6	2.0	2.2	Yellow	Y	2.5	2.0	2.3	Yellow
6 A06336-5Y	3.9	4.8	4.0	4.2	2.1	2.0	3.3	3.0	2.6	Yellow	Y	3.1	2.4	2.8	Yellow
7 A05182-7Y	3.8	3.9	4.0	3.9	2.0	3.0	2.6	2.0	2.4	Yellow/Pink eye	Y	2.5	2.0	2.3	Yellow
8 AOR06267-3	3.9	4.1	4.0	4.0	3.6	2.0	4.0	3.7	3.3	Pink Red	Y	3.5	2.0	2.8	Yellow
9 NDA081451CB-1CY	3.1	4.6	4.0	3.9	1.9	2.0	1.6	1.0	1.6	Yellow	Y	3.0	2.0	2.5	Yellow
Location Means	3.7	4.2	3.4	3.8	2.9	2.8	3.2	3.0	3.0			2.5	1.8	2.2	

¹ Scale of 1-5; 1=deep, 5=shallow

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

TABLE 10: 2015 Tri-State Specialty Potato Variety Trial - TUBER APPEARANCE, UNIFORMITY, MERIT

No. Clone	Appearance ¹			Uniformity ¹				Merit Score ¹		
	AB	PA	Entry Means	AB	OR	WA	Entry Means	AB	PA	Entry Means
1 Chieftain	3.0	3.0	3.0	3.0	2.8	3.0	2.9	2.5	2.0	2.2
2 NDA050237B-1R	3.9	4.0	3.9	4.1	3.1	4.0	3.8	4.0	3.5	3.8
3 A05180-3PY	4.0	4.0	4.0	3.3	2.6	4.0	3.3	3.3	3.5	3.4
4 COA07365-4RY	4.0	4.0	4.0	4.4	4.1	3.0	3.8	4.1	4.5	4.3
5 Yukon Gold	3.0	2.5	2.8	3.4	3.5	3.3	3.4	3.2	3.0	3.1
6 A06336-5Y	3.8	4.5	4.1	3.8	4.5	4.0	4.1	2.8	4.5	3.7
7 A05182-7Y	3.6	4.0	3.8	4.0	3.9	4.0	4.0	3.6	3.0	3.3
8 AOR06267-3	3.4	3.0	3.2	3.4	4.0	2.7	3.3	3.5	2.5	3.0
9 NDA081451CB-1CY	3.5	3.0	3.3	3.8	3.8	4.0	3.8	3.0	3.0	3.0
Location Means	3.6	3.6	3.6	3.7	3.6	3.6	3.6	3.3	3.3	3.3

¹ Scale of 1-5; 5=best

TABLE 11: 2015 Tri-State Specialty Potato Variety Trial - EXTERNAL DEFECTS

No. Clone	Skinning ¹			Shatter ¹			Greening ¹					Scab ¹			
	AB	PA	Entry Means	AB	PA	Entry Means	AB	PA	OR	WA	Entry Means	AB	PA	WA	Entry Means
1 Chieftain	2.5	4.0	3.2	4.5	5.0	4.8	4.0	5.0	3.8	5.0	4.4	4.5	4.4	5.0	4.6
2 NDA050237B-1R	3.1	2.5	2.8	4.8	4.1	4.4	4.3	5.0	4.5	5.0	4.7	4.8	4.0	5.0	4.6
3 A05180-3PY	3.3	2.5	2.9	3.1	5.0	4.1	4.8	5.0	4.5	5.0	4.8	5.0	5.0	5.0	5.0
4 COA07365-4RY	3.2	4.0	3.6	3.5	5.0	4.3	4.3	5.0	4.3	5.0	4.6	4.6	5.0	4.3	4.7
5 Yukon Gold	4.0	3.0	3.5	4.8	5.0	4.9	4.0	5.0	4.6	5.0	4.7	2.0	2.5	5.0	3.2
6 A06336-5Y	4.0	4.0	4.0	4.5	5.0	4.8	3.9	5.0	4.3	5.0	4.5	4.0	4.8	5.0	4.6
7 A05182-7Y	3.6	3.0	3.3	4.8	5.0	4.9	3.3	5.0	3.8	4.3	4.1	4.5	3.9	5.0	4.5
8 AOR06267-3	3.3	2.0	2.6	5.0	5.0	5.0	4.3	5.0	3.9	5.0	4.5	5.0	5.0	5.0	5.0
9 NDA081451CB-1CY	3.5	2.0	2.8	4.3	4.5	4.4	1.8	4.9	4.1	3.5	3.6	4.9	4.6	5.0	4.8
Location Means	3.4	3.0	3.2	4.3	4.8	4.6	3.8	5.0	4.2	4.8	4.4	4.4	4.3	4.9	4.5

¹ Scale of 1-5; 5=best

TABLE 12: 2015Tri-State Specialty Potato Variety Trial - INTERNAL DEFECTS

No. Clone	Percent Hollow Heart plus Brown Center					Percent Internal Brown Spot					Percent Net Necrosis/ Vascular Discoloration		
	AB	PA	OR	WA	Entry Means	AB	PA	OR	WA	Entry Means	AB	OR	Entry Means
1 Chieftain	20.0	0.0	0.0	0.0	5.0	0.0	10.0	0.0	4.2	3.5	0.0	12.5	6.3
2 NDA050237B-1R	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.6	0.0	10.0	5.0
3 A05180-3PY	7.5	0.0	2.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 COA07365-4RY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	1.3
5 Yukon Gold	20.0	0.0	2.5	0.0	5.6	0.0	5.0	0.0	11.1	4.0	0.0	7.5	3.8
6 A06336-5Y	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 A05182-7Y	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	2.5
8 AOR06267-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	5.0
9 NDA081451CB-1CY	5.0	0.0	0.0	0.0	1.3	0.0	12.5	0.0	0.0	3.1	0.0	2.5	1.3
Location Means	5.8	0.0	0.6	0.0	1.6	0.0	3.3	0.0	1.7	1.3	0.0	5.6	2.8

**TABLE 13: 2015 Tri-State Specialty Potato Variety Trial - SOLIDS, ANTIOXIDANTS, VITAMIN C,
AND GLYCOALKALOIDS - ABERDEEN**

No.	Clone	Solids Oven Dry (%)	AntiOxidants		Glycoalkaloids (mg/100gFWB)
			ug/g (%FWB)	Vitamin C (mg/100g FWB)	
1	Chieftain	17.78	464.5	18.36	3.97
2	NDA050237B-1R	14.54	303.8	12.45	3.18
3	A05180-3PY	19.00	354.8	18.60	1.43
4	COA07365-4RY	17.02	575.3	19.51	4.17
5	Yukon Gold	20.46	399.9	28.30	3.56
6	A06336-5Y	17.70	365.4	19.65	3.26
7	A05182-7Y	17.53	322.6	16.70	2.56
8	AOR06267-3	17.82	464.5	17.57	4.96
9	NDA081451CB-1CY	19.22	334.6	17.85	2.88
Means		17.90	398.38	18.78	3.33

FWB = fresh weight basis DWB = dry weight basis

TABLE 14: 2015 Tri-State Specialty Potato Variety Trial - CULINARY RESULTS

		Othello, WA				
		Boiled	Baked	Microwaved	Total	
No.	Clone	(25 max)	(25 max)	(25 max)	(75 max)	Final Ranking ¹
1	Chieftain	18.0	18.0	18.7	54.7	4
2	NDA050237B-1R	17.5	19.5	17.4	54.4	5
3	A05180-3PY	17.8	17.6	17.4	52.8	8
4	COA07365-4RY	16.9	18.6	17.1	52.6	9
5	Yukon Gold	17.9	19.6	17.9	55.4	3
6	A06336-5Y	18.5	19.3	19.5	57.2	2
7	A05182-7Y	16.2	19.2	18.3	53.7	6
8	AOR06267-3	18.0	18.2	16.8	53.0	7
9	NDA081451CB-1CY	18.8	19.8	19.3	57.9	1

¹ Tests were conducted in August

TABLE 15: 2015 Tri-State Specialty Potato Variety Trial - OTHER

No.	Clone	Metr.Reaction	Early Blight	Verticillium Wilt	Black Spot Bruise	Rhizoc	Days after harvest untill 5mm sprouts (@70F)
		AB	AB	AB	OR	OR	PA
1	Chieftain	R	3.8	3.5	2.5	3.5	74
2	NDA050237B-1R	MR	3.8	4.0	5.0	1.8	74
3	A05180-3PY	R	3.8	3.5	5.0	5.0	88
4	COA07365-4RY	R	3.8	3.5	0.0	5.0	74
5	Yukon Gold	R	3.0	2.0	2.5	3.9	74
6	A06336-5Y	MR	2.0	2.5	2.5	4.9	67
7	A05182-7Y	R	3.8	4.0	2.5	1.9	103
8	AOR06267-3	R	4.0	4.0	2.5	4.5	103
9	NDA081451CB-1CY	R	3.8	4.0	2.5	3.6	60
Means			3.5	3.4	2.8	3.8	

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

Scale of 1-5; 5=none

TABLE 16: 2015 Tri-State Specialty Potato Variety Trial - SUMMARY

Clone	Total Yield	% 2-6 oz (premium)	Specific Gravity	Fresh Merit	Appearance	Dormancy length (DAH) @ 45F
1 Chieftain	560	150	1.071	2.2	3.0	74
2 NDA050237B-1R	432	212	1.065	3.8	3.9	74
3 A05180-3PY	514	238	1.067	3.4	4.0	88
4 COA07365-4RY	411	238	1.070	4.3	4.0	74
5 Yukon Gold	430	118	1.077	3.1	2.8	74
6 A06336-5Y	435	329	1.072	3.7	4.1	67
7 A05182-7Y	499	300	1.073	3.3	3.8	103
8 AOR06267-3	241	151	1.073	3.0	3.2	103
9 NDA081451CB-1CY	526	286	1.078	3.0	3.3	60

TABLE 17: 2015 Tri-State Specialty Potato Variety Trial - LOCATION COMMENTS

Clone	ABERDEEN	PARMA	KLAMATH FALLS	OTHELLO
1 Chieftain	big, ugly, deep eyes, attached stolons, skinned, bumps	Growth crack, knobs, some russet	misshape x3, ugly x2, skinning x2, big, crooky, bulging eyes, ATS	Shape and size a bit variable.
2 NDA050237B-1R	many, small round, uniform, skinned	Skinning, deep eyes, scab	rhizoc x2, skinning, not bad, mechanical damage, growth crack	eyes a bit deep, nice red/purple.
3 A05180-3PY	round, skinned, deep eyes, attached stolons, GC	Skinning, yellow flesh, uniform shape, nice purple	nice color x2, shiny, GC x4, sticky stolons x2, low pack out, misshape	Nice deep purple, sticky stolons,
4 COA07365-4RY	small, round, skinning, uniform	Smooth shape, yellow flesh, very uniform	nice x2, some skinning, bronzing x3	Large size range, variable shape.
5 Yukon Gold	big, scab, green, some attached stolons	smooth, bad scab	GC, blotchy x2, irregular shape, size uniformity, pears, russeting	mostly typy, large.
6 A06336-5Y	many, small, smooth, round	Pointed some, not uniform size	like x2, small, sprouting, pointy stem end, bruised	Small, nice round shape, slightly pink eyes.
7 A05182-7Y	small, round, many	Pinkish tan color, skinning	ok, 40% pack out due to rhizoc, sticky stolons x2, russeting	Nice looking, champagne with pink eyes.
8 AOR06267-3	smooth, some points, skinning	Skinning, pointed, not consistent shape	purple stem end x2, pointy stem end, skin issues x2, rot	Pointy, irregular shape. Discard!
9 NDA081451CB-1CY	deep eyes, many, green	Skinning, round, uniform	lenticel scaring x2, ATS x3, nice, round, rhizoc	Nice shape and skin, sticky stolons.

ATS - attached stolons

2015 Tri-State Specialty Potato Variety Photos

Taken at Parma, Idaho

