

2011 TRI-STATE SPECIALTY POTATO VARIETY TRIAL REPORT

State Experiment Stations and
USDA-ARS Cooperating

Aberdeen, Idaho

Parma, Idaho

Klamath Falls, Oregon



2011 TRI-STATE SPECIALTY POTATO VARIETY TRIAL REPORT

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Compiled by Bill Buhrig

Revision - 12/30/2014

TABLE 1: 2011 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 P. Bain R. Novy J. Whitworth M. Chappell	Sprink.	235-160-150-50	4-May	25-Aug mechanical	8-Sep	113	127	Matrix Sencor Eptam	Admire Pro	Echo Dithane DF-2
Parma Idaho (PA)	M. Thornton W. Buhrig O. Adams	Sprink.	135-180-50 2 Zn, 2 Fe, 3 Mn	18-Apr	28-Jul mechanical	9-Aug	101	113	Prowl Outlook Eptam	Fumigation Vapam	Gavel Endura Mankocide Quadris
Klamath Falls Oregon (OR)	B. Charlton D. Culp	Sprink.	161-173-34-43S	24-May	12-Sep Reglone, PRO AMS (defoliant)	17-Oct	111	146	Matrix Prowl H2O Outlook Eptam 7E	Admire Pro Leverage Endigo Movento Assail 70 WP Fulfill	Moncut Ridomil Gold Bra

TABLE 2: 2011 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		AB	PA	
1	Dk Red Norland	RedKote	ND626	Red-purple	Check	Ck	ID	100	87	100	96	3.3	2.8	3.1
2	A05173-6P	A99331-2RY	VC1075-1R	Dr Red-purple	ID	1	ID	97	85	97	93	2.7	2.7	2.7
3	NDA050237B-1R	ND028678-1RY	ND028770B-4R	Dk Red-purple	ID	2	ID	60	---	---	60	3.8	---	3.8
4	NDA8512C-1R	ND6694C-1R	ND5256-7R	Md Red-purple	ID	3	ID	97	90	94	93	2.1	1.4	1.7
5	A02267-5PY	Inca Gold	ND5256-7R	Dk Red-purple	ID	3	ID	92	87	94	91	2.2	2.5	2.4
6	A05173-2R	A99331-2RY	VC1075-1R	Md Red-purple	ID	2	ID	95	83	95	91	4.4	2.9	3.6
7	A05175-7RY	A99331-2RY	COA99261-1RY	Dr Red-purple	ID	1	ID	97	81	91	90	2.3	1.9	2.1
8	Yukon Gold	Norgleam	W5279-4	Pink	Check	Ck	ID	98	81	93	91	2.0	1.8	1.9
9	A02267-1Y	Inca Gold	ND5256-7R	Md Red-purple	ID	3	ID	100	83	96	93	2.7	2.1	2.4
10	A05201-1Y	A99433-5Y	Provento	White	ID	1	ID	97	85	95	92	3.7	2.6	3.2
11	COA05100-2	CO99045-1W/Y	CO97274-2W/Y	No flowers	ID	1	ID	97	81	97	92	5.4	3.4	4.4
12	NDA070942-1CY	AND02267-2RY	Dakota Rose	White	ID	1	ID	95	83	100	93	3.5	3.1	3.3
13	A99326-1PY	Agria	COA94019-5R	Med Purple	ID	n/a	ID	98	83	---	91	2.9	2.0	2.5

TABLE 3: 2011 Tri-State Specialty Potato Variety Trial - VINE CHARACTERISTICS

No	Clone	Vine Size ¹				Vine Maturity ²					
		AB	PA	OR	Means	Size	AB	PA	OR	Means	Maturity
1	Dk Red Norland	1.0	2.0	4.3	2.4	Small	1.0	2.0	---	1.5	Early
2	A05173-6P	2.0	2.8	3.8	2.8	Medium	2.0	2.8	---	2.4	Early
3	NDA050237B-1R	3.3	---	---	3.3	Med-large	3.8	---	---	3.8	Med--late
4	NDA8512C-1R	1.0	3.0	3.0	2.3	Small	1.0	3.3	---	2.1	Early
5	A02267-5PY	2.3	3.5	4.0	3.3	Med-large	2.3	4.0	---	3.2	Medium
6	A05173-2R	2.0	4.0	3.3	3.1	Med-large	2.8	3.0	---	2.9	Med Early
7	A05175-7RY	2.8	3.5	3.0	3.1	Med-large	2.5	3.8	---	3.1	Medium
8	Yukon Gold	2.3	3.0	3.8	3.0	Medium	1.9	3.0	---	2.5	Early
9	A02267-1Y	3.0	5.0	4.0	4.0	Med-large	2.3	4.5	---	3.4	Medium
10	A05201-1Y	2.5	4.5	4.9	4.0	Med-large	3.3	4.0	---	3.7	Med--late
11	COA05100-2	1.0	3.0	4.3	2.8	Medium	1.0	3.0	---	2.0	Early
12	NDA070942-1CY	3.0	4.8	5.0	4.3	Large	2.8	3.8	---	3.3	Medium
13	A99326-1PY	2.8	4.8	---	3.8	Med-large	2.8	4.8	---	3.8	Med--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: 2011 Tri-State Specialty Potato Variety Trial - TOTAL YIELD AND SPECIFIC GRAVITY

No.	Clone	TOTAL YIELD (CWT/A)				SPECIFIC GRAVITY					
		AB	PA	OR	Entry Mean	Rank	AB	PA	OR	Entry Mean	Rank
1	Dk Red Norland	411	469	591	490	7	1.067	1.075	1.068	1.070	10
2	A05173-6P	499	462	561	508	4	1.071	1.069	1.071	1.070	9
3	NDA050237B-1R	426	---	---	426	10	1.062	---	---	1.062	13
4	NDA8512C-1R	273	409	447	376	13	1.079	1.077	1.077	1.078	4
5	A02267-5PY	413	444	573	477	8	1.083	1.081	1.085	1.083	2
6	A05173-2R	434	435	608	492	6	1.062	1.066	1.064	1.064	12
7	A05175-7RY	366	394	522	428	9	1.069	1.068	1.075	1.071	8
8	Yukon Gold	385	398	491	425	11	1.087	1.092	1.082	1.087	1
9	A02267-1Y	411	532	621	521	3	1.071	1.071	1.078	1.073	6
10	A05201-1Y	366	398	740	501	5	1.079	1.080	1.079	1.080	3
11	COA05100-2	459	554	631	548	1	1.066	1.068	1.067	1.067	11
12	NDA070942-1CY	471	462	696	543	2	1.069	1.068	1.076	1.071	7
13	A99326-1PY	370	408	---	389	12	1.080	1.075	---	1.078	5
Location Means		407	447	589	481		1.073	1.074	1.075	1.074	

TABLE 5: 2011 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	Entry Mean	Rank	AB	PA	OR	Entry Mean	Rank
1 Dk Red Norland	51	9	12	24	12	109	49	27	62	11
	12	2	2	5	13	27	10	5	14	11
2 A05173-6P	144	68	95	102	4	142	186	109	146	3
	29	15	17	16	7	29	40	19	29	5
3 NDA050237B-1R	136	---	---	136	1	144	---	---	122	7
	32	---	---	32	1	34	---	---	30	4
4 NDA8512C-1R	93	23	60	59	7	107	100	102	103	9
	34	6	13	17	5	40	25	23	29	5
5 A02267-5PY	164	78	66	103	3	128	242	118	163	1
	40	18	12	23	3	31	55	21	36	1
6 A05173-2R	45	52	52	50	9	97	154	91	114	8
	10	12	9	10	9	22	35	15	24	9
7 A05175-7RY	43	30	35	36	10	76	93	53	74	10
	14	8	7	9	10	21	24	10	18	10
8 Yukon Gold	46	12	18	25	11	83	49	17	50	12
	12	3	4	6	11	22	12	3	12	13
9 A02267-1Y	93	43	35	57	8	131	155	83	123	6
	23	8	6	12	8	32	29	13	25	8
10 A05201-1Y	167	91	91	116	2	97	202	112	137	5
	46	23	12	27	2	26	51	15	31	2
11 COA05100-2	132	39	98	90	6	169	157	101	142	4
	29	7	15	17	6	37	28	16	27	7
12 NDA070942-1CY	143	77	75	98	5	144	204	113	154	2
	31	17	11	19	4	30	44	16	30	3
13 A99326-1PY	33	10	---	21	13	58	36	---	47	13
	9	2	---	6	12	17	9	---	13	12
Location Means	99	44	58	70		114	136	84	111	
	25	10	10	16		28	30	14	24	

TABLE 6: 2011 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	Entry Mean	Rank	AB	PA	OR	Entry Mean	Rank
1 Dk Red Norland	109	142	82	111	10	160	220	205	195	1
	27	30	14	24	9	39	47	35	40	1
2 A05173-6P	142	133	128	134	5	122	63	132	106	8
	29	29	23	27	6	24	14	24	21	9
3 NDA050237B-1R	144	---	---	144	4	82	---	---	82	12
	34	---	---	34	3	19	---	---	19	10
4 NDA8512C-1R	107	173	96	125	6	43	104	94	80	13
	40	42	21	34	2	16	26	21	21	8
5 A02267-5PY	128	113	130	124	8	72	8	174	85	11
	31	26	23	27	7	17	2	30	16	12
6 A05173-2R	97	155	120	124	7	167	57	175	133	5
	22	36	20	26	8	38	13	29	27	6
7 A05175-7RY	76	119	81	92	11	137	134	149	140	4
	21	30	16	22	11	36	34	29	33	3
8 Yukon Gold	83	101	56	80	12	150	171	166	162	2
	22	25	11	19	12	39	43	34	39	2
9 A02267-1Y	131	220	148	166	2	146	105	174	142	3
	32	41	24	32	4	36	20	28	28	5
10 A05201-1Y	97	86	157	113	9	29	17	226	91	10
	26	22	21	23	10	8	4	31	14	13
11 COA05100-2	169	213	192	191	1	101	127	125	118	6
	37	39	30	35	1	22	23	20	22	7
12 NDA070942-1CY	144	150	154	149	3	106	26	178	103	9
	30	33	22	28	5	21	6	26	18	11
13 A99326-1PY	58	77	---	68	13	97	136	---	117	7
	17	19	---	18	13	26	33	---	30	4
Location Means	114	140	122	125		109	97	163	119	
	28	31	20	27		26	22	28	25	

TABLE 7: 2011 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	Entry Mean	Rank	AB	PA	OR	Entry Mean	Rank
1 Dk Red Norland	80	46	187	104	3	4	3	77	28	5
	19	10	32	20	3	1	1	13	5	8
2 A05173-6P	28	7	47	27	9	18	6	49	24	8
	5	2	8	5	9	3	1	9	4	9
3 NDA050237B-1R	25	---	---	25	10	6	---	---	6	13
	6	---	---	6	6	1	---	---	1	13
4 NDA8512C-1R	3	4	13	7	13	6	5	82	31	4
	1	1	3	2	13	2	1	18	7	3
5 A02267-5PY	9	0	45	18	12	5	3	40	16	12
	2	0	8	3	11	1	1	7	3	12
6 A05173-2R	78	0	77	52	5	36	16	93	48	2
	18	0	13	10	5	8	4	15	9	1
7 A05175-7RY	81	17	142	80	4	18	1	61	27	6
	21	4	27	17	4	5	0	12	6	5
8 Yukon Gold	79	58	180	106	2	15	7	53	25	7
	20	15	37	24	2	4	2	11	6	5
9 A02267-1Y	9	1	94	35	7	17	7	87	37	3
	2	0	15	6	8	4	1	14	6	4
10 A05201-1Y	3	0	101	35	7	10	3	52	22	9
	1	0	14	5	9	3	1	7	4	10
11 COA05100-2	17	14	74	35	6	9	3	42	18	10
	4	2	12	6	6	2	1	7	3	11
12 NDA070942-1CY	4	1	54	20	11	29	4	122	52	1
	1	0	8	3	12	7	1	18	9	2
13 A99326-1PY	139	147	---	143	1	34	2	---	18	10
	35	36	---	36	1	10	1	---	6	7
Location Means	43	25	92	53		16	5	69	27	
	10	6	16	11		4	1	12	5	

TABLE 8: 2011 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	Entry Means	AB	Entry Means		PA	OR	Entry Means
1 Dk Red Norland	5.8	5.5	7.1	6.1	3.0	3.0	Blocky	1.21	1.17	1.19
2 A05173-6P	3.7	2.9	3.9	3.5	1.1	1.1	Round	0.99	1.06	1.02
3 NDA050237B-1R	3.7	---	---	3.7	1.5	1.5	Round	---	---	---
4 NDA8512C-1R	3.3	4.2	3.7	3.8	1.5	1.5	Round	1.19	1.18	1.19
5 A02267-5PY	3.5	2.8	4.0	3.4	1.0	1.0	Round	1.02	1.03	1.03
6 A05173-2R	5.8	3.3	4.0	4.4	3.8	3.8	Obl-Lng	1.35	1.21	1.28
7 A05175-7RY	5.6	4.1	4.9	4.9	2.5	2.5	Oval	1.33	1.23	1.28
8 Yukon Gold	5.6	5.6	6.4	5.9	3.0	3.0	Blocky	1.21	1.21	1.21
9 A02267-1Y	4.6	3.9	4.9	4.4	1.8	1.8	Round	1.17	1.21	1.19
10 A05201-1Y	2.8	2.6	4.6	3.3	1.0	1.0	Round	1.08	1.15	1.12
11 COA05100-2	3.9	4.2	3.5	3.9	3.5	3.5	Blocky	1.39	1.32	1.36
12 NDA070942-1CY	3.6	3.0	3.7	3.4	1.0	1.0	Round	1.02	1.05	1.04
13 A99326-1PY	6.8	6.6	---	6.7	2.5	2.5	Oval	1.09	---	1.09
Location Means	4.5	4.1	4.6	4.4	2.1	2.1		1.17	1.17	1.17

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: 2011 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	PA	OR	Entry Means	AB	PA	OR	Entry Means		AB	PA	OR	Entry Means	
1 Dk Red Norland	1.0	2.0	3.0	2.0	3.0	1.8	2.6	2.5	Red	1.0	1.5	1.0	1.2	White
2 A05173-6P	2.0	2.3	3.6	2.6	4.3	4.1	3.9	4.1	Purple	1.0	1.0	1.0	1.0	Yellow
3 NDA050237B-1R	3.3	---	---	3.3	3.5	---	---	3.5	Red	1.0	---	---	1.0	White
4 NDA8512C-1R	2.8	2.5	4.3	3.2	3.4	3.4	3.8	3.5	Red	1.0	1.5	1.0	1.2	White
5 A02267-5PY	2.5	1.8	4.0	2.8	4.0	3.3	3.0	3.4	Dk Purple	3.3	3.0	2.0	2.8	Yellow
6 A05173-2R	2.8	4.0	4.3	3.7	3.3	3.0	---	3.1	Pink/Red Eye	2.5	3.5	1.5	2.5	Yellow
7 A05175-7RY	2.8	2.0	4.0	2.9	3.8	3.0	---	3.4	Red/Cream Eye	3.8	3.0	2.9	3.2	Yellow
8 Yukon Gold	1.0	3.5	4.4	3.0	2.0	3.0	1.9	2.3	Yellow	3.0	2.5	2.0	2.5	Yellow
9 A02267-1Y	2.8	2.0	3.0	2.6	1.0	3.5	2.5	2.3	Yellow	2.5	3.0	2.1	2.5	Yellow
10 A05201-1Y	2.3	3.5	4.1	3.3	1.5	3.0	3.1	2.5	Yellow	3.3	3.3	2.4	3.0	Yellow
11 COA05100-2	0.0	3.0	4.4	2.5	2.0	2.0	3.5	2.5	Yellow	4.0	2.0	2.8	2.9	Yellow
12 NDA070942-1CY	0.0	1.9	4.0	2.0	1.0	3.0	1.0	1.7	Yellow	2.0	2.5	2.0	2.2	Yellow
13 A99326-1PY	0.0	2.0	---	1.0	4.3	4.0	---	4.1	Purple	3.3	2.5	---	2.9	Yellow
Location Means	1.8	2.5	3.9	2.7	2.8	3.1	2.8	3.0		2.4	2.4	1.9	2.2	

¹ Scale of 1-5; 1=deep, 5=shallow² Scale of 1-5 with higher number more intense color.

TABLE 10: 2011 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	Entry Means	AB	PA	Entry Means
1 Dk Red Norland	2.4	3.0	2.7	2.3	3.6	2.9	3.0	3.0	3.0
2 A05173-6P	2.8	3.5	3.1	3.5	3.9	3.7	3.0	3.5	3.3
3 NDA050237B-1R	4.0	---	4.0	4.3	---	4.3	3.8	---	3.8
4 NDA8512C-1R	3.5	4.0	3.8	4.8	3.9	4.3	4.0	4.0	4.0
5 A02267-5PY	3.1	2.3	2.7	4.8	4.2	4.5	4.0	2.3	3.1
6 A05173-2R	2.0	4.0	3.0	2.3	4.0	3.1	2.0	4.0	3.0
7 A05175-7RY	3.5	4.0	3.8	2.5	3.8	3.2	3.0	4.0	3.5
8 Yukon Gold	2.8	4.0	3.4	2.0	3.9	3.0	2.0	4.0	3.0
9 A02267-1Y	4.4	4.0	4.2	2.8	3.7	3.2	3.3	4.0	3.6
10 A05201-1Y	3.3	2.0	2.6	3.8	4.1	3.9	4.5	2.0	3.3
11 COA05100-2	3.3	2.0	2.6	3.7	4.2	3.9	4.5	2.0	3.3
12 NDA070942-1CY	3.3	4.0	3.6	4.8	3.9	4.3	2.5	4.0	3.3
13 A99326-1PY	2.3	2.0	2.1	1.8	---	1.8	2.0	2.0	2.0
Location Means	3.1	3.2	3.2	3.3	3.9	3.5	3.2	3.2	3.2

¹ Scale of 1-5; 5=best

TABLE 11: 2011 Tri-State Specialty Potato Variety Trial - EXTERNAL DEFECTS

No. Clone	Skinning ¹			Shatter ¹				Greening ¹				Scab ¹		
	AB	PA	Entry Means	AB	PA	OR	Entry Means	AB	PA	OR	Entry Means	AB	PA	Entry Means
1 Dk Red Norland	2.8	3.6	3.2	4.5	5.0	4.3	4.6	5.0	5.0	4.4	4.8	4.3	5.0	4.6
2 A05173-6P	3.2	3.6	3.4	4.0	5.0	4.4	4.5	5.0	5.0	4.0	4.7	3.3	5.0	4.1
3 NDA050237B-1R	2.7	---	2.7	5.0	---	---	5.0	4.8	5.0	---	4.9	5.0	---	5.0
4 NDA8512C-1R	3.0	3.1	3.1	3.8	5.0	2.4	3.7	5.0	5.0	4.3	4.8	3.8	5.0	4.4
5 A02267-5PY	4.3	4.1	4.2	4.8	5.0	4.4	4.7	5.0	5.0	4.3	4.8	4.0	5.0	4.5
6 A05173-2R	1.8	2.9	2.3	4.3	5.0	4.4	4.5	4.0	5.0	4.1	4.4	3.8	5.0	4.4
7 A05175-7RY	3.3	3.8	3.5	4.4	5.0	4.4	4.6	4.3	5.0	3.4	4.2	3.5	5.0	4.3
8 Yukon Gold	3.4	3.4	3.4	4.0	5.0	4.8	4.6	4.0	5.0	4.1	4.4	1.5	5.0	3.3
9 A02267-1Y	4.5	4.0	4.3	4.5	5.0	4.5	4.7	3.3	5.0	3.5	3.9	3.0	5.0	4.0
10 A05201-1Y	3.8	2.8	3.3	5.0	5.0	4.5	4.8	4.0	5.0	4.6	4.5	3.3	5.0	4.1
11 COA05100-2	4.8	3.5	4.1	4.5	5.0	5.0	4.8	4.5	5.0	4.5	4.7	5.0	5.0	5.0
12 NDA070942-1CY	2.5	2.5	2.5	4.5	5.0	4.4	4.6	3.8	5.0	3.9	4.2	4.3	5.0	4.6
13 A99326-1PY	2.3	3.8	3.0	4.5	5.0	---	4.8	5.0	5.0	---	5.0	3.0	5.0	4.0
Location Means	3.2	3.4	3.3	4.4	5.0	4.3	4.6	4.4	5.0	4.1	4.5	3.7	5.0	4.3

¹ Scale of 1-5; 5=best

TABLE 12: 2011 Tri-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	Entry Means	AB	PA	OR	Entry Means	AB	PA	OR	Entry Means
1 Dk Red Norland	3	0	0	0.8	0	0	3	0.8	0	0	5	1.7
2 A05173-6P	0	0	0	0.0	0	0	0	0.0	0	3	3	1.7
3 NDA050237B-1R	0	---	---	0.0	0	---	---	0.0	0	---	---	0.0
4 NDA8512C-1R	0	0	0	0.0	0	0	0	0.0	0	0	3	0.8
5 A02267-5PY	0	0	0	0.0	0	0	13	4.2	0	10	25	11.7
6 A05173-2R	8	0	0	2.5	0	0	0	0.0	0	5	3	2.5
7 A05175-7RY	30	0	13	14.3	0	0	0	0.0	0	18	3	6.7
8 Yukon Gold	10	0	0	3.3	0	0	3	0.8	0	3	0	0.8
9 A02267-1Y	0	0	3	0.8	0	0	8	2.5	0	10	8	5.8
10 A05201-1Y	0	0	0	0.0	0	0	0	0.0	0	0	0	0.0
11 COA05100-2	0	0	0	0.0	0	0	0	0.0	0	5	0	1.7
12 NDA070942-1CY	0	0	0	0.0	0	0	3	0.8	0	20	10	10.0
13 A99326-1PY	0	0	---	0.0	0	0	---	0.0	0	28	---	13.8
Location Means	3.8	0.0	1.4	1.8	0.0	0.0	2.5	0.8	0.0	8.3	5.2	4.4

TABLE 13: 2011 Tri-State Specialty Potato Variety Trial - SOLIDS, ANTIOXIDANTS, VITAMIN C,
AND GLYCOALKALOIDS - ABERDEEN

Clone	Solids Oven Dry (%)	Antioxidants	Vitamin C (mg/100g FWB)	Glycoalkaloids (mg/100gFWB)
		ug/g (%FWB)		
1 Dk Red Norland	18.19	347.75	24.88	3.86
2 A05173-6P	18.55	366.75	27.72	6.31
3 NDA050237B-1R	16.47	329.29	15.97	3.92
4 NDA8512C-1R	20.67	486.26	24.19	6.68
5 A02267-5PY	21.59	400.74	27.90	6.26
6 A05173-2R	17.24	314.80	25.03	1.55
7 A05175-7RY	17.98	395.25	24.10	3.46
8 Yukon Gold	23.53	321.93	36.12	4.11
9 A02267-1Y	18.81	320.24	23.43	3.12
10 A05201-1Y	21.79	393.02	29.93	3.87
11 COA05100-2	18.01	422.17	27.52	4.87
12 NDA070942-1CY	18.45	265.18	22.23	1.09
13 A99326-1PY	20.58	447.25	24.09	4.86
Means	19.37	370.05	25.62	4.15

FWB = fresh weight basis DWB = dry weight basis

Glycoalkaloids: The 2009 Lenape check from Aberdeen was 42.5 mg/100g

TABLE 14: 2011 Tri-State Specialty Potato Variety Trial - DISEASE RATINGS FROM ABERDEEN

No. Clone	Early Blight ¹	Verticillium Wilt ¹
	AB	AB
1 Dk Red Norland	1.0	1.0
2 A05173-6P	2.3	2.0
3 NDA050237B-1R	2.8	3.5
4 NDA8512C-1R	1.0	1.0
5 A02267-5PY	2.0	2.0
6 A05173-2R	3.3	2.8
7 A05175-7RY	2.8	2.0
8 Yukon Gold	2.5	2.3
9 A02267-1Y	2.8	2.3
10 A05201-1Y	2.8	2.5
11 COA05100-2	1.0	1.3
12 NDA070942-1CY	2.8	2.8
13 A99326-1PY	2.3	2.8
Location Means	2.2	2.2

¹ Scale of 1-5; 5=best

TABLE 15: 2011 Tri-State Specialty Potato Variety Trial - SUMMARY

Clone	Total Yield		% 4-10 oz		% 2-6 oz (premium)		Tuber Size		Specific Gravity		F	Merit Score	Comments	Disposition
1 Dk Red Norland	490	Medium	64	High	38	Low	6.1	Large	1.070		3.0			
2 A05173-6P	508	High	48		56		3.5	Small	1.070		3.3		Round, prolific, small	
3 NDA050237B-1R	426	Low	53		64	Good	3.7	Small	1.062	Lowest	3.8		Nice size profile	
4 NDA8512C-1R	376	Lowest	55		64	Good	3.8	Small	1.078		4.0	Good	Good profile, solids	
5 A02267-5PY	477	Medium	43		62	Good	3.4	Small	1.083		3.1			
6 A05173-2R	492	Medium	53		50		4.4	Medium	1.064		3.0			
7 A05175-7RY	428	Low	55		41		4.9	Medium	1.071		3.5		Low yield, poor size profile	
8 Yukon Gold	425	Low	58		32	Low	5.9	Large	1.087	Highest	3.0			
9 A02267-1Y	521	High	60		57		4.4	Medium	1.073		3.6			
10 A05201-1Y	501	High	37	Low	54		3.3	Small	1.080		3.3			
11 COA05100-2	548	Highest	57		62	Good	3.9	Small	1.067		3.3		Good yield, and size profile	
12 NDA070942-1CY	543	High	46		58		3.4	Small	1.071		3.3		Good yield, interesting skin color	
13 A99326-1PY	389	Low	48		31	Low	6.7	Large	1.078		2.0	Poor		

TABLE 16: 2011 Tri-State Specialty Potato Variety Trial - LOCATION COMMENTS

Clone	ABERDEEN	PARMA	KLAMATH FALLS
	Comments	Comments	Comments
1 Dk Red Norland	Big round, med red	Average, big	70% bronze cull, smooth
2 A05173-6P	Round, medium purple, deep ends, attached stolons, some rot	Prolific, bumpy, some russeting	---
3 NDA050237B-1R	Nice round red, skinned, attached stolons	---	---
4 NDA8512C-1R	Round, red, nice shape, skin not attractive	Shiny, spongy, skinned, misshapen	GC, SB, 50% bronze cull
5 A02267-5PY	Round, purple, nice shape, attached stolons	Misshapen, faded, reddish purple	---
6 A05173-2R	Pink splash, oblong, some growth cracks, skinned, too big	Smooth, two tone skin	GC, smooth, ok
7 A05175-7RY	Dk red with yellow splash, dk yellow flesh, skinned, elongated, some attached stolons	Pretty, nice size, little curvy	Inconsistent R/Y, smooth, drop
8 Yukon Gold	Non uniform size, scab	Lumpy, big	Smooth, few MS
9 A02267-1Y	Nice skin with purple eyes, misshaped, green	Purple eyes, misshapen	Smooth, MS, IB
10 A05201-1Y	Small yellow, few misshaped	Flat, pointy	Lenticel scar, no shine, ok
11 COA05100-2	Elongated, buff, nice	Good yield, blotchy russet	Russeted yellow, keep
12 NDA070942-1CY	Champaign skin, folded ends, attached stolons	Little, misshapen	GC, pale pink, smooth, drop
13 A99326-1PY	Big round, dk purple, lumpy, skinned, scab	Faded, russeted, big	---

2011 Tri-State Specialty Potato Variety Photos

Taken at Parma, Idaho

