

# 2016

## TRI-STATE SPECIALTY POTATO VARIETY TRIAL REPORT

State Experiment Stations and USDA-ARS Cooperating

**Aberdeen, Idaho**

**Parma, Idaho**

**Othello, Washington**

**Klamath Falls, Oregon**



## 2016 TRI-STATE SPECIALTY POTATO VARIETY TRIAL REPORT

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**TABLE 1: 2016 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 <b>(AB)</b>	J. Stark J Hatch R. Novy J. Whitworth C. Lowder	Sprink.	197-170-0-10Zn-5Mn	5-May	23-Aug	8-Sep	110	126	TriCor 4F Matrix Eptam 7-E	Admire	
Parma Idaho <b>(PA)</b>	M. Thornton R. Portenier O. Adams	Sprink.	212-150-100	6-Apr	19-Jul	9-Aug	104	125	Outlook Prowl H2O Eptam Reglone	Admire Pro Movento	Bravo Endura Quadris Luna T
Klamath Falls Oregon <b>(OR)</b>	B. Charlton N. Baley	Solid set	184-158-208-236 S + 2.25 B	22-May	6-Sep	28-Sep	107	129	Prowl H2O Outlook	Leverage 360	Ridomil/Bravo Tanos
Othello Washington <b>(WA)</b>	M. Pavek R. Knowles N. Fuller Z. Holden	Linear	100 + 100 + 150 + 20 S + 2B	31-Mar	27-Jul	9-Aug	118	131	PreEmerge: Outlook Prowl H2O Eptam Post Emerge: Eptam	Platinum	Omega Luna Tranquility Chloronil

**TABLE 2: 2016 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	97	91	99	97	<b>96</b>	2.4	2.8	2.0	<b>2.4</b>
2 Yukon Gold	ND028678-1RY	ND028770B-4R	Dk Red-purple	Check	***	ID	96	93	96	98	<b>96</b>	2.7	2.0	1.6	<b>2.1</b>
3 A06336-2Y	VC1009-1W/Y	US 147-96 R/Y	Lt Red-purple	ID	1	ID	99	97	97	95	<b>97</b>	2.5	3.0	1.8	<b>2.4</b>
4 A06336-5Y	VC1009-1W/Y	US 147-96 R/Y	Lt Red-purple	ID	2	ID	100	96	97	98	<b>98</b>	3.5	3.6	2.2	<b>3.1</b>
5 POR11PG20-2	POR02PG26-5	POR03PG6-3	Purple	OR	1	OR	98	97	100	99	<b>98</b>	3.4	3.9	2.3	<b>3.2</b>
6 POR11PG62-3	Diverse	High Car	Purple	OR	1	OR	99	92	94	94	<b>95</b>	2.8	3.1	2.0	<b>2.6</b>
7 A10419-3Yadg	Reiche	Granola	Med Red-purple	ID	1	ID	99	98	*	*	<b>98</b>	2.6	3.0	*	<b>2.8</b>

**TABLE 3: 2016 Tri-State Specialty Potato Variety Trial - VINE CHARACTERISTICS**

No	Clone	Vine Size <sup>1</sup>				Vine Maturity <sup>2</sup>			
		AB	PA	Means	Size	AB	PA	Means	Maturity
1	Chieftain	2.0	3.0	2.5	Small	2.5	3.4	2.9	Med Early
2	Yukon Gold	1.5	2.0	1.8	Small	1.0	1.9	1.4	Early
3	A06336-2Y	1.8	3.1	2.4	Small	2.1	2.5	2.3	Early
4	A06336-5Y	1.0	2.3	1.6	Small	1.9	2.5	2.2	Early
5	POR11PG20-2	2.0	4.0	3.0	Medium	1.8	3.0	2.4	Early
6	POR11PG62-3	1.8	3.4	2.6	Medium	2.1	4.0	3.1	Medium
7	A10419-3Yadg	3.3	4.4	3.8	Med-large	3.1	4.4	3.8	Med--late

<sup>1</sup> 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

<sup>2</sup> 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: 2016Tri-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	420	628	478	664	<b>548</b>	1.073	1.071	1.077	1.080	<b>1.075</b>
2 Yukon Gold	353	510	396	530	<b>447</b>	1.089	1.080	1.088	1.094	<b>1.088</b>
3 A06336-2Y	320	520	376	534	<b>438</b>	1.076	1.075	1.080	1.080	<b>1.078</b>
4 A06336-5Y	445	575	476	504	<b>500</b>	1.075	1.074	1.073	1.078	<b>1.075</b>
5 POR11PG20-2	452	798	585	741	<b>644</b>	1.085	1.089	1.083	1.095	<b>1.088</b>
6 POR11PG62-3	193	403	422	459	<b>369</b>	1.078	1.080	1.080	1.094	<b>1.083</b>
7 A10419-3Yadg	595	661	*	*	<b>628</b>	1.082	1.078	*	*	<b>1.080</b>
<b>Location Means</b>	<b>347</b>	<b>512</b>	<b>391</b>	<b>490</b>	<b>447</b>	<b>1.080</b>	<b>1.078</b>	<b>1.080</b>	<b>1.087</b>	<b>1.081</b>

**TABLE 5: 2016 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)/%					
					Entry						Entry	
	AB	PA	OR	WA	Mean	Rank	AB	PA	OR	WA	Mean	Rank
1 Chieftain	8	31	50	19	27	<b>6</b>	24	104	5	117	63	<b>6</b>
	2	5	10	3	5	<b>7</b>	6	17	1	18	10	<b>6</b>
2 Yukon Gold	8	22	64	7	25	<b>7</b>	52	49	11	51	41	<b>7</b>
	2	4	16	1	6	<b>6</b>	15	10	3	10	9	<b>7</b>
3 A06336-2Y	37	48	131	15	58	<b>4</b>	112	151	25	167	114	<b>4</b>
	12	9	35	3	15	<b>3</b>	36	29	7	31	26	<b>3</b>
4 A06336-5Y	106	67	194	73	110	<b>2</b>	208	300	38	270	204	<b>1</b>
	24	11	41	14	22	<b>2</b>	47	52	8	54	40	<b>1</b>
5 POR11PG20-2	32	52	186	28	75	<b>3</b>	89	133	39	175	109	<b>5</b>
	7	7	32	4	12	<b>4</b>	20	17	7	24	17	<b>5</b>
6 POR11PG62-3	98	85	219	61	116	<b>1</b>	58	225	67	205	139	<b>3</b>
	54	21	52	13	35	<b>1</b>	28	56	16	45	36	<b>2</b>
7 A10419-3Yadg	22	65	*	*	44	<b>5</b>	81	214	*	*	147	<b>2</b>
	4	10	*	*	7	<b>5</b>	14	33	*	*	23	<b>4</b>
<b>Location Means</b>	<b>45</b>	<b>53</b>	<b>141</b>	<b>34</b>	<b>65</b>		<b>89</b>	<b>168</b>	<b>31</b>	<b>164</b>	<b>117</b>	
	<b>15</b>	<b>10</b>	<b>31</b>	<b>6</b>	<b>15</b>		<b>24</b>	<b>30</b>	<b>7</b>	<b>30</b>	<b>23</b>	

**TABLE 6: 2016 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	45	168	84	145	111	5	105	208	128	250	173	2
	11	27	18	22	19	6	25	33	27	38	30	2
2 Yukon Gold	97	90	84	86	89	6	142	50	114	231	134	3
	28	18	18	16	20	5	41	38	29	44	38	1
3 A06336-2Y	77	170	124	199	143	3	69	125	69	127	97	5
	23	33	33	37	32	1	22	24	18	24	22	5
4 A06336-5Y	107	157	130	124	129	4	22	246	71	33	93	6
	24	28	27	25	26	3	5	9	15	7	9	6
5 POR11PG20-2	127	206	134	185	163	2	129	15	134	248	131	4
	28	26	23	25	26	4	29	31	23	33	29	3
6 POR11PG62-3	27	69	66	116	70	7	2	153	33	52	60	7
	14	18	16	25	18	7	1	4	8	11	6	7
7 A10419-3Yadg	144	184	*	*	164	1	195	193	*	*	194	1
	24	28	*	*	26	2	33	23	*	*	28	4
<b>Location Means</b>	<b>89</b>	<b>149</b>	<b>104</b>	<b>142</b>	<b>124</b>		<b>95</b>	<b>141</b>	<b>91</b>	<b>157</b>	<b>126</b>	
	<b>22</b>	<b>25</b>	<b>22</b>	<b>25</b>	<b>24</b>		<b>22</b>	<b>23</b>	<b>20</b>	<b>26</b>	<b>23</b>	



**TABLE 7: 2016 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	217	92	173	103	<b>146</b>	1	21	26	38	103	<b>47</b>	<b>2</b>
	51	15	36	16	<b>29</b>	1	5	4	8	16	<b>8</b>	<b>2</b>
2 Yukon Gold	45	152	121	146	<b>116</b>	2	8	5	14	146	<b>43</b>	<b>3</b>
	11	30	31	28	<b>25</b>	2	2	0	3	28	<b>8</b>	<b>1</b>
3 A06336-2Y	16	25	8	15	<b>16</b>	5	8	3	18	15	<b>11</b>	<b>6</b>
	5	4.5	2	3	<b>4</b>	5	3	0.6	5	3	<b>3</b>	<b>6</b>
4 A06336-5Y	1	2	9	0	<b>3</b>	7	1	0	35	0	<b>9</b>	<b>7</b>
	0	0	2	0	<b>1</b>	7	0	0	7	0	<b>2</b>	<b>7</b>
5 POR11PG20-2	39	149	41	93	<b>81</b>	3	36	11	50	93	<b>47</b>	<b>1</b>
	8	18.0	7	13	<b>11</b>	3	8	1.4	9	13	<b>8</b>	<b>3</b>
6 POR11PG62-3	0	0	11	2	<b>3</b>	6	7	9	26	2	<b>11</b>	<b>5</b>
	0	0	3	0	<b>1</b>	6	3	2	6	0	<b>3</b>	<b>5</b>
7 A10419-3Yadg	111	24	*	*	<b>68</b>	4	42	22	*	*	<b>32</b>	<b>4</b>
	18	4	*	*	<b>11</b>	4	7	3	*	*	<b>5</b>	<b>4</b>
<b>Location Means</b>	<b>61</b>	<b>63</b>	<b>60</b>	<b>60</b>	<b>62</b>		<b>18</b>	<b>11</b>	<b>30</b>	<b>60</b>	<b>29</b>	
	<b>13</b>	<b>10</b>	<b>13</b>	<b>10</b>	<b>12</b>		<b>4</b>	<b>2</b>	<b>6</b>	<b>10</b>	<b>5</b>	

**TABLE 8: 2016 Tri-State Specialty Potato Variety Trial - AVERAGE TUBER SIZE AND SHAPE**

No. Clone	Average Tuber Size (oz)					Tuber Shape <sup>1</sup>					(Length/Width Ratio)			
	AB	PA	OR	WA	Entry Means	AB	OR	WA	Entry Means		AB	PA	OR	Entry Means
1 Chieftain	7.8	4.9	6.4	5.8	<b>6.2</b>	2.9	3.5	1.8	<b>2.7</b>	Blocky	1.47	1.14	1.39	<b>1.33</b>
2 Yukon Gold	5.2	6.5	6.8	7.4	<b>6.5</b>	2.3	3.1	1.8	<b>2.4</b>	Oval	1.32	1.12	1.28	<b>1.24</b>
3 A06336-2Y	3.4	3.8	3.6	4.8	<b>3.9</b>	2.8	3.5	3.0	<b>3.1</b>	Blocky	1.64	1.26	1.60	<b>1.50</b>
4 A06336-5Y	2.7	3.0	2.9	3.4	<b>3.0</b>	1.6	2.5	1.0	<b>1.7</b>	Round	1.31	1.11	1.28	<b>1.23</b>
5 POR11PG20-2	4.3	5.0	3.9	5.3	<b>4.6</b>	2.1	3.0	2.0	<b>2.4</b>	Oval	1.35	1.11	1.29	<b>1.25</b>
6 POR11PG62-3	1.6	2.3	2.1	3.5	<b>2.4</b>	4.5	5.0	3.5	<b>4.3</b>	Long	2.60	2.12	2.89	<b>2.54</b>
7 A10419-3Yadg	5.3	3.3	*	*	<b>4.3</b>	2.0	*	*	<b>2.0</b>	Round	1.35	1.10	*	<b>1.23</b>
<b>Location Means</b>	<b>4.3</b>	<b>4.1</b>	<b>4.3</b>	<b>5.0</b>	<b>4.4</b>	<b>2.6</b>	<b>3.4</b>	<b>2.2</b>	<b>2.7</b>		<b>1.58</b>	<b>1.28</b>	<b>1.62</b>	<b>1.49</b>

<sup>1</sup> 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: 2016 Tri-State Specialty Potato Variety Trial - EYE DEPTH, TUBER SKIN AND FLESH COLOR**

No. Clone	Eye Depth <sup>1</sup>					Skin Color <sup>2</sup>					Flesh Color <sup>2</sup>					
	AB	PA	OR	WA	Entry Means	AB	PA	OR	WA	Entry Means		AB	PA	OR	Entry Means	
1 Chieftain	3.5	3.0	3.8	3.5	<b>3.4</b>	3.0	1.5	R	3.0	<b>2.5</b>	Red	1.0	1.0	1.0	1.0	White
2 Yukon Gold	4.3	4.0	4.1	4.0	<b>4.1</b>	2.8	2.0	Y	2.3	<b>2.3</b>	Yellow	2.8	3.0	2.0	2.6	Yellow
3 A06336-2Y	4.3	4.0	4.5	4.0	<b>4.2</b>	2.9	3.5	Y	2.0	<b>2.8</b>	Yellow	3.0	2.5	2.1	2.5	Yellow
4 A06336-5Y	4.3	3.0	4.3	4.0	<b>3.9</b>	3.8	3.0	Y	2.0	<b>2.9</b>	Yellow	3.0	2.5	2.0	2.5	Yellow
5 POR11PG20-2	3.8	3.0	3.9	3.0	<b>3.4</b>	2.3	2.5	Y	2.0	<b>2.3</b>	Yellow	3.5	4.0	2.3	3.3	Yellow
6 POR11PG62-3	4.0	2.0	4.6	3.5	<b>3.5</b>	2.0/2.5	3/4.5	Y/R	3.0	<b>3.0</b>	Yellow/Red	2.5	2.5	2.0	2.3	Yellow
7 A10419-3Yadg	3.8	3.0	3.9	4.0	<b>3.7</b>	3.5	1.0	*	*	<b>2.3</b>	Yellow	2.8	1.9	*	2.3	Yellow
<b>Location Means</b>	<b>4.0</b>	<b>3.1</b>	<b>4.1</b>	<b>3.7</b>	<b>3.7</b>	<b>3.0</b>	<b>2.3</b>		<b>2.4</b>	<b>2.6</b>		<b>2.6</b>	<b>2.5</b>	<b>1.9</b>	<b>2.4</b>	

<sup>1</sup> Scale of 1-5; 1=deep, 5=shallow

<sup>2</sup> Scale of 1-5 with higher number more intense color.

**TABLE 10: 2016 Tri-State Specialty Potato Variety Trial - TUBER APPEARANCE, UNIFORMITY, MERIT**

No. Clone	Appearance <sup>1</sup>				Uniformity <sup>1</sup>				Merit Score <sup>1</sup>			
	AB	PA	WA	Entry Means	AB	OR	WA	Entry Means	AB	PA	WA	Entry Means
1 Chieftain	2.1	2.0	3.5	<b>2.5</b>	1.9	2.1	3.3	<b>2.4</b>	1.6	2.0	3.5	<b>2.4</b>
2 Yukon Gold	2.3	3.0	2.8	<b>2.7</b>	2.9	3.8	3.0	<b>3.2</b>	2.6	3.0	3.0	<b>2.9</b>
3 A06336-2Y	3.6	4.0	2.3	<b>3.3</b>	2.8	3.5	3.0	<b>3.1</b>	2.9	3.5	2.5	<b>3.0</b>
4 A06336-5Y	3.4	4.0	3.3	<b>3.6</b>	3.9	4.0	3.8	<b>3.9</b>	4.1	4.0	3.7	<b>3.9</b>
5 POR11PG20-2	3.5	2.0	2.3	<b>2.6</b>	3.5	2.6	2.8	<b>3.0</b>	3.3	2.5	2.0	<b>2.6</b>
6 POR11PG62-3	3.3	4.0	1.0	<b>2.8</b>	3.0	3.6	3.0	<b>3.2</b>	3.0	3.0	1.5	<b>2.5</b>
7 A10419-3Yadg	1.8	2.0	*	<b>1.9</b>	2.9	*	*	<b>2.9</b>	2.4	2.0	*	<b>2.2</b>
<b>Location Means</b>	<b>2.8</b>	<b>3.0</b>	<b>3.0</b>	<b>2.8</b>	<b>3.0</b>	<b>3.3</b>	<b>3.1</b>	<b>3.1</b>	<b>2.8</b>	<b>2.9</b>	<b>2.7</b>	<b>2.8</b>

<sup>1</sup> Scale of 1-5; 5=best

**TABLE 11: 2016 Tri-State Specialty Potato Variety Trial - EXTERNAL DEFECTS**

No.	Clone	Skinning <sup>1</sup>				Shatter <sup>1</sup>			Greening <sup>1</sup>					Scab <sup>1</sup>			
		AB	PA	WA	Entry Means	PA	OR	Entry Means	AB	PA	OR	WA	Entry Means	AB	PA	WA	Entry Means
1	Chieftain	1.6	4.0	3.5	<b>3.0</b>	5.0	5.0	<b>5.0</b>	4.5	5.0	4.5	5.0	<b>4.8</b>	4.3	5.0	5.0	<b>4.8</b>
2	Yukon Gold	4.6	5.0	5.0	<b>4.9</b>	5.0	5.0	<b>5.0</b>	5.0	4.5	4.6	5.0	<b>4.8</b>	2.4	4.9	5.0	<b>4.1</b>
3	A06336-2Y	4.4	5.0	5.0	<b>4.8</b>	5.0	5.0	<b>5.0</b>	4.9	4.5	4.4	5.0	<b>4.7</b>	4.3	5.0	5.0	<b>4.8</b>
4	A06336-5Y	4.6	5.0	5.0	<b>4.9</b>	5.0	4.6	<b>4.8</b>	4.9	4.8	4.8	5.0	<b>4.8</b>	3.9	5.0	5.0	<b>4.6</b>
5	POR11PG20-2	4.1	5.0	5.0	<b>4.7</b>	5.0	5.0	<b>5.0</b>	4.9	4.1	4.0	5.0	<b>4.5</b>	3.4	3.8	5.0	<b>4.0</b>
6	POR11PG62-3	3.1	5.0	5.0	<b>4.4</b>	5.0	5.0	<b>5.0</b>	4.6	5.0	4.6	4.0	<b>4.6</b>	4.4	5.0	5.0	<b>4.8</b>
7	A10419-3Yadg	3.5	5.0	*	<b>4.3</b>	5.0	*	<b>5.0</b>	4.9	4.0	*	*	<b>4.4</b>	4.5	5.0	*	<b>4.8</b>
<b>Location Means</b>		<b>3.7</b>	<b>4.9</b>	<b>4.8</b>	<b>4.4</b>	<b>5.0</b>	<b>4.9</b>	<b>5.0</b>	<b>4.8</b>	<b>4.6</b>	<b>4.5</b>	<b>4.8</b>	<b>4.7</b>	<b>3.9</b>	<b>4.8</b>	<b>5.0</b>	<b>4.5</b>

<sup>1</sup> Scale of 1-5; 5=best

**TABLE 12: 2016 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	WA	Entry Means	AB	PA	OR	WA	Entry Means	AB	OR	Entry Means
1 Chieftain	0.0	0.0	0.0	0.0	<b>0.0</b>	0.0	15.0	0.0	0.0	<b>3.8</b>	0.0	0.0	<b>0.0</b>
2 Yukon Gold	0.0	5.0	0.0	0.0	<b>1.3</b>	2.5	10.0	0.0	0.0	<b>3.1</b>	0.0	0.0	<b>0.0</b>
3 A06336-2Y	0.0	7.5	0.0	0.0	<b>1.9</b>	0.0	17.5	0.0	0.0	<b>4.4</b>	0.0	0.0	<b>0.0</b>
4 A06336-5Y	0.0	0.0	0.0	0.0	<b>0.0</b>	0.0	0.0	0.0	0.0	<b>0.0</b>	0.0	0.0	<b>0.0</b>
5 POR11PG20-2	0.0	0.0	0.0	0.0	<b>0.0</b>	0.0	5.0	0.0	0.0	<b>1.3</b>	0.0	0.0	<b>0.0</b>
6 POR11PG62-3	0.0	0.0	0.0	0.0	<b>0.0</b>	0.0	0.0	0.0	0.0	<b>0.0</b>	0.0	0.0	<b>0.0</b>
7 A10419-3Yadg	0.0	7.5	0.0	0.0	<b>1.9</b>	0.0	0.0	*	*	<b>0.0</b>	0.0	0.0	<b>0.0</b>
<b>Location Means</b>	<b>0.0</b>	<b>2.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.7</b>	<b>0.4</b>	<b>6.8</b>	<b>0.0</b>	<b>0.0</b>	<b>1.8</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

**TABLE 13: 2016 Tri-State Specialty Potato Variety Trial - SOLIDS, ANTIOXIDANTS, VITAMIN C,  
AND GLYCOALKALOIDS - ABERDEEN**

No.	Clone	Solids Oven Dry (%)	AntiOxidants	Vitamin C (mg/100g FWB)	Glycoalkaloids (mg/100gFWB)
			ug/g (%FWB)		
1	Chieftain	19.84	679.0	32.37	9.59
2	Yukon Gold	23.81	442.8	39.72	2.83
3	A06336-2Y	19.28	396.7	40.04	4.69
4	A06336-5Y	18.92	384.9	35.00	3.28
5	POR11PG20-2	21.98	594.6	35.51	2.71
6	POR11PG62-3	19.17	737.8	45.29	11.35
7	A10419-3Yadg	21.77	841.6	32.89	14.80
<b>Means</b>		<b>20.68</b>	<b>582.47</b>	<b>37.26</b>	<b>7.03</b>

FWB = fresh weight basis DWB = dry weight basis

**TABLE 14: 2016 Tri-State Specialty Potato Variety Trial - OTHER**

No.	Clone	Metr.Reaction	Early Blight	Verticillium Wilt	% CRS	%SEB	% Hard Bite	% Impact Bruise	Rhizoc	Stem end %	Days until sprouts
		AB	AB	AB	OR	OR	OR	OR	OR	WA	PA
1	Chieftain	MS	4.8	2.9	27.5	0.0	5.0	0.0	4.5	3.3	134
2	Yukon Gold	MR	1.0	1.0	17.5	5.0	0.0	0.0	4.3	10.0	99
3	A06336-2Y	MS	3.3	2.4	0.0	0.0	0.0	0.0	5.0	0.0	106
4	A06336-5Y	R	3.8	2.0	0.0	0.0	0.0	5.0	4.9	0.0	78
5	POR11PG20-2	R	4.0	1.8	27.5	0.0	5.0	0.0	4.0	0.0	42
6	POR11PG62-3	R	4.4	2.3	2.5	2.5	0.0	0.0	5.0	0.0	148
7	A10419-3Yadg	MR	4.9	3.6	*	*	*	*	*	*	0

Metribuzin  
Reaction  
measured  
at  
Aberdeen,  
ID.  
VR=very  
resistant,  
R=Resista

Scale of 1-5; 5=none

Scale of 1-5; 5 = Best

**3.7      2.3      12.5      1.3      1.7      0.8      4.6      2.2      86.7**



**TABLE 15: 2016 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	548	87	1.075	2.4	2.4	134
2 Yukon Gold	447	65	1.088	2.8	2.5	99
3 A06336-2Y	451	128	1.077	2.9	3.2	106
4 A06336-5Y	556	167	1.079	3.8	3.1	78
5 POR11PG20-2	545	136	1.086	2.7	2.5	42
6 POR11PG62-3	398	104	1.082	2.3	3.4	148
7 A10419-3Yadg	628	156	1.080	2.2	1.9	0

**TABLE 16: 2016 Tri-State Specialty Potato Variety Trial - LOCATION COMMENTS**

Clone	ABERDEEN	PARMA	KLAMATH FALLS	OTHELLO
1 Chieftain	bumpy (3), not uniform/misshapen (3), ugly (2), skinned (2)	GC, bumpy	Big, mishaped, skinned x3, GC x 2, bronzed	Nice shape, lot's of cracks
2 Yukon Gold	pink eye, flat (3), russeting (2), not uniform (2), few misshapen/bumps	irregular shape,knobs	irregular size x 2, CRS x 2, lenticel scaring x 2	Good shape, lots of russeting.
3 A06336-2Y	some points (4), not real uniform (3), some pear shape (2)	smooth, shiny	pointy x 3, knobs on stem end, misshaped	Shaped like pears and bowling pins.
4 A06336-5Y	uniform (4), few misshapen/oblong/pear	uniform, champagne color, nice	typy and nice x 3 some mechanical damage, TNC x 2	Nice shape, round, small with pink eyes.
5 POR11PG20-2	pink eye, oblong (2), misshapen (2), flat (2), green (2), scab (2) few bumps/points	pointy ends, scab, greening	pointy stem ends, lenticil scaring x 2, CRS, sprouting x 2	Irregular shapes, ok skin, a lot of US # 2's
6 POR11PG62-3	misshapen (4), extra end growth (4), curved (2)	uniform, fingerlings	popeyes x 2, knobby stem end, pruple ends x 2	Discard, long with ugly skin, lot's of knobs.
7 A10419-3Yadg	russeting (4), few ats (3), oblong (2), checking (2), some misshapen (2), skinning (2)	Sprouts	*	*

# 2016 Tri-State Specialty Potato Variety Photos

Taken at Parma, Idaho



Chieftain



Yukon Gold



A06336-5Y



POR11PG20-2



A10419-3Yadg



A06336-2Y



POR11PG62-3

# 2016 Tri-State Specialty Potato Variety Brushed Tubers

## Taken at Parma, Idaho

Brushed



Brushed



Brushed



Brushed



Brushed



Brushed



Brushed

