

# 2015 TRI-STATE RUSSET POTATO VARIETY TRIAL REPORT



State Experiment Stations and  
USDA-ARS Cooperating

Washington

Oregon

Idaho

## 2015 TRI-STATE POTATO VARIETY TRIAL REPORT

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Compiled by Chelsey Lowder

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TABLE 1: 2015 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 ( <b>ID</b> )	J. Stark	Late	Solid Set	215N-80P-7Zn-7Mg Seed spacing: in row 10.6" rows 36"	5-May	2-Sep	21-Sep	120	139	TriCor 4F Matrix	Admire Pro	Gavel Bravo
	R. Novy P. Bain C. Lowder	Early			4-May	8-Aug	18-Aug	96	106	Eptam Reglone		
Hermiston Oregon ( <b>HOR</b> )	Sagar Sathuvalli	Late	Pivot	375N-290P-375K-85S-5Zn-0.5B-2.5Mg Seed spacing: in row 9.25" rows 34"	7-Apr	30-Aug	21-Sep	145	167	Vapam Dual Magnum Matrix Reglone (Dessicant)	Admire Coragen Agr-Mek	Quadris Ridomil
Klamath Falls Oregon ( <b>KOR</b> )	B. Charlton	Late	Solid Set	181N-125P-150K-231S  Seed spacing: in row 9.25" rows 36"	14-May	21-Aug	17-Sep	99	126	Prowl Matrix Outlook	Alias Movento Transform	Moncut Ridomil/Bravo Manzate Luna
		Reglone, Rolled and chopped										
Othello ( <b>EWA</b> ) Washington	M Pavek R. Knowles N. Fuller Z. Holden	Early	Linear	100N-150P-200K-40S-2B Seed spacing: in row 12" rows 34"	31-Mar	17-Jul	4-Aug	108	126	<b>PreEmerge:</b> Outlook Prowl H20 Metribuzin <b>Post Emerge:</b>	Platinum	Luna Traquility Chlorinil 720 Priaxor
Othello ( <b>LWA</b> ) Washington		Late	Pivot	365N-135P-300K-40S-2B Seed spacing: in row 10" rows 34"	7-Apr	9-Sep	16-Sep	155	162	Eptam Matrix		

TABLE 2: 2015 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 %	Tuber				Vine			Stems/Plant	
									Means	Shape	Means	Skin	Means	Size	Means		Maturity
1	Ranger Russet	Butte A6595-3	Med Red-purple	Check	Dual	Ck	OR	99	4.1	Long	3.7	Med Russet	3.1	Med-large	2.8	Med Early	2.0
2	Russet Burbank	Early Rose ?	White	Check	Dual	Ck	OR	99	3.4	Oblong	3.6	Med Russet	3.7	Med-large	2.1	Early	1.9
3	Russet Norkotah	ND9687-5 Rus ND9526-4 Rus	White	Check	Fresh	Ck	OR	99	4.1	Long	4.1	Med Hvy Rus	2.5	Small	1.0	Early	2.1
5	A02449-100	AO97011-1 A97299-1	White	ID	Dual	1	ID	94	3.5	Oblong	2.6	Light Russet	4.0	Med-large	0.0	Early	1.2
6	A06030-23	A99133-6 Premier Russet	White	ID	Dual	1	ID	100	3.7	Obl-Lng	3.9	Med Russet	2.1	Small	1.8	Early	2.2
7	A061070-3CSR	PA03NM5-3 Premier Russet	White	ID	Dual	1	ID	99	2.8	Oblong	2.5	Light Russet	3.2	Med-large	3.0	Med Early	2.5
8	A061071-3CSR	PA03NM5-3 A98345-1	White	ID	Dual	1	ID	100	3.3	Oblong	3.2	Med Russet	3.0	Medium	2.6	Med Early	2.0
9	A06862-14VR	PA98V1-2 A98345-1	Red-Purple	ID	Dual	1	ID	98	3.5	Oblong	2.8	Light Russet	3.5	Med-large	1.5	Early	2.6
10	A07008-4T	A98082-17TE A01025-4	White	ID	Dual	2	OR	99	3.7	Obl-Lng	3.5	Med Russet	3.3	Med-large	2.0	Early	2.6
11	A08009-2TE	A00727-1 A02060-3TE	White	ID	Dual	1	ID	97	3.6	Obl-Lng	3.7	Med Russet	2.8	Medium	2.9	Med Early	3.0
12	A08433-4VR	A02611-1 AOND95249-1	White	ID	Dual	1	ID	98	3.2	Oblong	3.1	Med Russet	3.5	Med-large	3.1	Medium	1.3
13	A09001-12TE	A03293-2 A98345-1	White	ID	Dual	1	ID	93	2.9	Oblong	2.8	Light Russet	3.2	Med-large	2.9	Med Early	1.7
14	A09001-14TE	A03293-2 A98345-1	White	ID	Dual	1	ID	97	3.0	Oblong	3.3	Med Russet	2.8	Medium	2.6	Med Early	2.4
15	AO06191-1	A99134-1 AC92009-4RU	White	OR	Dual	2	OR	97	3.7	Obl-Lng	4.3	Med Hvy Rus	2.6	Medium	1.9	Early	1.5

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: 2015 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)					
		(EID)	(EWA)	Entry Mean	Rank	(ID)	(OR)		(LWA)	Entry Mean	Rank
						Herm	KF				
1	Ranger Russet	332	476	404	10	434	779	404	851	617	7
2	Russet Burbank	307	435	371	13	393	1101	380	688	641	6
3	Russet Norkotah	358	478	418	7	304	530	352	646	458	14
5	A02449-100		524	524	1		839	475	726	680	2
6	A06030-23	347	458	403	11	398	366	440	680	471	13
7	A061070-3CSR	427	464	446	3	556	836	522	946	715	1
8	A061071-3CSR	401	462	432	5	456	643	453	807	590	9
9	A06862-14VR	254	517	386	12	316	735	427	762	560	10
10	A07008-4T	355	455	405	9	463	563	498	573	524	11
11	A08009-2TE	384	506	445	4	529	762	489	830	653	4
12	A08433-4VR	355	472	414	8	480	793	501	872	662	3
13	A09001-12TE	384	510	447	2	468	712	470	776	607	8
14	A09001-14TE	372	480	426	6	443	869	550	704	642	5
15	AO06191-1	279	394	337	14	349	696	430	620	524	12
<b>Location Means</b>		<b>350</b>	<b>474</b>	<b>418</b>		<b>430</b>	<b>730</b>	<b>457</b>	<b>749</b>	<b>596</b>	
<b>LSD (.05)</b>										<b>130</b>	

TABLE 4: 2015. Tri-State Potato Variety Trial - YIELD OF U.S. #1'S (CWT/A &amp; %) - EARLY AND LATE HARVEST

No.	Clone	U.S. No. 1's - Early Harvest (CWT/A)/%				U.S. No. 1's - Late Harvest (CWT/A)/%					
		(EID)	(EWA)	Entry Mean	Rank	(ID)	(OR)		(LWA)	Entry Mean	Rank
							Herm	KF			
1	Ranger Russet	225	457	<b>341</b>	<b>10</b>	302	455	217	750	<b>431</b>	<b>10</b>
		66	96	<b>81</b>	<b>9</b>	70	58	54	88	<b>68</b>	<b>13</b>
2	Russet Burbank	147	290	<b>219</b>	<b>14</b>	229	459	173	596	<b>364</b>	<b>14</b>
		47	67	<b>57</b>	<b>14</b>	58	45	45	87	<b>59</b>	<b>14</b>
3	Russet Norkotah	236	404	<b>320</b>	<b>11</b>	237	409	266	629	<b>385</b>	<b>13</b>
		67	85	<b>76</b>	<b>11</b>	78	77	76	97	<b>82</b>	<b>3</b>
5	A02449-100		384	<b>384</b>	<b>6</b>		714	283	596	<b>531</b>	<b>2</b>
			73	<b>73</b>	<b>13</b>		85	60	82	<b>76</b>	<b>9</b>
6	A06030-23	267	447	<b>357</b>	<b>8</b>	333	273	301	645	<b>388</b>	<b>12</b>
		77	98	<b>88</b>	<b>6</b>	83	75	68	95	<b>80</b>	<b>5</b>
7	A061070-3CSR	360	457	<b>409</b>	<b>3</b>	449	531	306	855	<b>535</b>	<b>1</b>
		84	99	<b>92</b>	<b>2</b>	81	63	59	90	<b>73</b>	<b>12</b>
8	A061071-3CSR	348	446	<b>397</b>	<b>4</b>	384	452	328	777	<b>485</b>	<b>6</b>
		87	97	<b>92</b>	<b>1</b>	84	70	72	96	<b>81</b>	<b>4</b>
9	A06862-14VR	149	468	<b>309</b>	<b>12</b>	188	568	300	696	<b>438</b>	<b>9</b>
		60	91	<b>76</b>	<b>12</b>	59	77	70	91	<b>74</b>	<b>10</b>
10	A07008-4T	273	440	<b>357</b>	<b>9</b>	382	404	350	557	<b>423</b>	<b>11</b>
		77	97	<b>87</b>	<b>7</b>	82	72	70	97	<b>80</b>	<b>5</b>
11	A08009-2TE	319	506	<b>413</b>	<b>1</b>	408	454	339	735	<b>484</b>	<b>7</b>
		82	100	<b>91</b>	<b>3</b>	77	60	69	89	<b>74</b>	<b>11</b>
12	A08433-4VR	249	467	<b>358</b>	<b>7</b>	412	532	315	827	<b>522</b>	<b>3</b>
		70	99	<b>85</b>	<b>8</b>	86	67	63	95	<b>78</b>	<b>8</b>
13	A09001-12TE	317	502	<b>410</b>	<b>2</b>	360	618	372	713	<b>516</b>	<b>4</b>
		82	98	<b>90</b>	<b>5</b>	77	87	79	92	<b>84</b>	<b>1</b>
14	A09001-14TE	307	475	<b>391</b>	<b>5</b>	317	657	420	638	<b>508</b>	<b>5</b>
		82	99	<b>91</b>	<b>4</b>	71	76	76	91	<b>79</b>	<b>7</b>
15	AO06191-1	185	372	<b>279</b>	<b>13</b>	287	606	288	593	<b>444</b>	<b>8</b>
		66	95	<b>81</b>	<b>10</b>	82	87	67	96	<b>83</b>	<b>2</b>
<b>Location Means</b>		<b>260</b>	<b>437</b>	<b>348</b>		<b>330</b>	<b>509</b>	<b>304</b>	<b>686</b>	<b>457</b>	
<b>LSD (.05)</b>		<b>73</b>	<b>92</b>	<b>83</b>		<b>76</b>	<b>71</b>	<b>66</b>	<b>92</b>	<b>76</b>	
										<b>109</b>	

TABLE 5: 2015 Tri-State Potato Variety Trial - YIELD &gt; 10 OZ (CWT/A &amp; %) - EARLY AND LATE HARVEST

No.	Clone	U.S. No. 1's > 10 OZ - Early Harvest				U.S. No. 1's > 10 OZ - Late Harvest					
		(CWT/A)/%		Entry Mean	Rank	(ID)	(OR)		(LWA)	Entry Mean	Rank
		(EID)	(EWA)				Herm	KF			
1	Ranger Russet	119	102	<b>111</b>	<b>8</b>	201	241	44	368	<b>213</b>	<b>8</b>
		35	21	<b>28</b>	<b>8</b>	47	31	11	43	<b>33</b>	<b>8</b>
2	Russet Burbank	53	78	<b>66</b>	<b>14</b>	116	236	29	185	<b>142</b>	<b>12</b>
		16	18	<b>17</b>	<b>13</b>	29	23	8	27	<b>22</b>	<b>14</b>
3	Russet Norkotah	93	149	<b>121</b>	<b>7</b>	73	154	105	182	<b>129</b>	<b>13</b>
		26	31	<b>29</b>	<b>7</b>	23	29	30	28	<b>28</b>	<b>12</b>
5	A02449-100		196	<b>196</b>	<b>2</b>		411	118	286	<b>272</b>	<b>4</b>
			37	<b>37</b>	<b>3</b>		49	25	39	<b>38</b>	<b>5</b>
6	A06030-23	77	86	<b>82</b>	<b>10</b>	179	49	90	329	<b>162</b>	<b>11</b>
		22	19	<b>21</b>	<b>10</b>	45	13	21	48	<b>32</b>	<b>11</b>
7	A061070-3CSR	177	133	<b>155</b>	<b>4</b>	308	190	88	522	<b>277</b>	<b>2</b>
		41	29	<b>35</b>	<b>4</b>	55	23	17	55	<b>38</b>	<b>6</b>
8	A061071-3CSR	208	184	<b>196</b>	<b>2</b>	268	182	166	462	<b>270</b>	<b>5</b>
		52	40	<b>46</b>	<b>2</b>	58	28	37	57	<b>45</b>	<b>2</b>
9	A06862-14VR	42	128	<b>85</b>	<b>9</b>	78	296	84	341	<b>200</b>	<b>10</b>
		17	25	<b>21</b>	<b>9</b>	24	40	20	45	<b>32</b>	<b>9</b>
10	A07008-4T	99	45	<b>72</b>	<b>12</b>	228	80	97	108	<b>128</b>	<b>14</b>
		27	10	<b>19</b>	<b>11</b>	48	14	19	19	<b>25</b>	<b>13</b>
11	A08009-2TE	87	56	<b>72</b>	<b>13</b>	218	234	98	296	<b>212</b>	<b>9</b>
		22	11	<b>17</b>	<b>14</b>	41	31	20	36	<b>32</b>	<b>10</b>
12	A08433-4VR	52	104	<b>78</b>	<b>11</b>	279	184	55	448	<b>242</b>	<b>7</b>
		14	22	<b>18</b>	<b>12</b>	58	23	11	51	<b>36</b>	<b>7</b>
13	A09001-12TE	247	196	<b>222</b>	<b>1</b>	281	311	111	394	<b>274</b>	<b>3</b>
		65	38	<b>52</b>	<b>1</b>	59	44	24	51	<b>45</b>	<b>3</b>
14	A09001-14TE	194	88	<b>141</b>	<b>5</b>	234	387	145	276	<b>261</b>	<b>6</b>
		48	18	<b>33</b>	<b>6</b>	52	45	26	39	<b>41</b>	<b>4</b>
15	AO06191-1	31	221	<b>126</b>	<b>6</b>	133	511	148	451	<b>311</b>	<b>1</b>
		11	56	<b>34</b>	<b>5</b>	38	73	34	73	<b>55</b>	<b>1</b>
<b>Location Means</b>		<b>114</b>	<b>126</b>	<b>120</b>		<b>200</b>	<b>248</b>	<b>98</b>	<b>332</b>	<b>219</b>	
		<b>30</b>	<b>27</b>	<b>29</b>		<b>44</b>	<b>33</b>	<b>22</b>	<b>44</b>	<b>36</b>	
<b>LSD (.05)</b>										<b>126</b>	

TABLE 6: 2015 Tri-State Potato Variety Trial - YIELD &lt; 4 OZ (CWT/A &amp; %) - EARLY AND LATE HARVEST

No.	Clone	Yield < 4 OZ - Early Harvest				Yield < 4 OZ - Late Harvest				Entry Mean	Rank	
		(CWT/A)/%		Entry Mean	Rank	(OR)			Entry Mean			Rank
		(EID)	(EWA)			(ID)	Herm	KF				
1	Ranger Russet	23	68	<b>46</b>	<b>8</b>	20	54	60	62	<b>49</b>	<b>7</b>	
		7	14	<b>11</b>	<b>9</b>	5	7	15	7	<b>9</b>	<b>8</b>	
2	Russet Burbank	48	44	<b>46</b>	<b>7</b>	24	76	74	58	<b>58</b>	<b>5</b>	
		16	10	<b>13</b>	<b>6</b>	7	8	19	8	<b>11</b>	<b>4</b>	
3	Russet Norkotah	48	35	<b>42</b>	<b>10</b>	42	36	41	73	<b>48</b>	<b>10</b>	
		14	7	<b>11</b>	<b>9</b>	14	7	12	11	<b>11</b>	<b>2</b>	
5	A02449-100		33	<b>33</b>	<b>12</b>		46	32	52	<b>43</b>	<b>11</b>	
			6	<b>6</b>	<b>14</b>		6	7	7	<b>7</b>	<b>11</b>	
6	A06030-23	39	62	<b>51</b>	<b>6</b>	21	74	48	50	<b>48</b>	<b>9</b>	
		11	13	<b>12</b>	<b>7</b>	5	20	11	7	<b>11</b>	<b>3</b>	
7	A061070-3CSR	42	44	<b>43</b>	<b>9</b>	30	135	52	77	<b>74</b>	<b>2</b>	
		10	10	<b>10</b>	<b>11</b>	6	16	10	8	<b>10</b>	<b>5</b>	
8	A061071-3CSR	21	39	<b>30</b>	<b>14</b>	13	51	26	59	<b>37</b>	<b>12</b>	
		5	9	<b>7</b>	<b>12</b>	3	8	6	7	<b>6</b>	<b>12</b>	
9	A06862-14VR	47	64	<b>56</b>	<b>3</b>	23	62	46	65	<b>49</b>	<b>7</b>	
		18	12	<b>15</b>	<b>3</b>	7	8	11	8	<b>9</b>	<b>8</b>	
10	A07008-4T	42	102	<b>72</b>	<b>2</b>	30	102	80	86	<b>75</b>	<b>1</b>	
		12	22	<b>17</b>	<b>1</b>	7	18	16	15	<b>14</b>	<b>1</b>	
11	A08009-2TE	40	118	<b>79</b>	<b>1</b>	28	100	43	100	<b>68</b>	<b>3</b>	
		11	23	<b>17</b>	<b>1</b>	5	13	9	12	<b>10</b>	<b>6</b>	
12	A08433-4VR	56	52	<b>54</b>	<b>4</b>	16	73	94	54	<b>59</b>	<b>4</b>	
		17	11	<b>14</b>	<b>4</b>	3	9	19	6	<b>9</b>	<b>7</b>	
13	A09001-12TE	19	43	<b>31</b>	<b>13</b>	8	58	27	32	<b>31</b>	<b>13</b>	
		5	8	<b>7</b>	<b>13</b>	2	8	6	4	<b>5</b>	<b>13</b>	
14	A09001-14TE	31	71	<b>51</b>	<b>5</b>	19	61	45	78	<b>51</b>	<b>6</b>	
		9	15	<b>12</b>	<b>7</b>	4	7	8	11	<b>8</b>	<b>10</b>	
15	A006191-1	64	15	<b>40</b>	<b>11</b>	23	9	30	14	<b>19</b>	<b>14</b>	
		23	4	<b>14</b>	<b>5</b>	6	1	7	2	<b>4</b>	<b>14</b>	
<b>Location Means</b>		<b>40</b>	<b>56</b>	<b>48</b>		<b>23</b>	<b>67</b>	<b>50</b>	<b>61</b>	<b>50</b>		
<b>LSD (.05)</b>		<b>12</b>	<b>12</b>	<b>12</b>		<b>6</b>	<b>10</b>	<b>11</b>	<b>8</b>	<b>9</b>		



TABLE 7: 2015 Tri-State Potato Variety Trial - SPECIFIC GRAVITY - EARLY AND LATE HARVEST

No.	Clone	Specific Gravity - Early Harvest				Specific Gravity - Late Harvest					
		EID	EWA	Entry Mean	Rank	ID	Herm	KF	LWA	Entry Mean	Rank
1	Ranger Russet	1.080	1.086	<b>1.083</b>	<b>3</b>	1.089	1.076	1.078	1.086	<b>1.082</b>	<b>8</b>
2	Russet Burbank	1.076	1.078	<b>1.077</b>	<b>10</b>	1.083	1.078	1.076	1.064	<b>1.075</b>	<b>12</b>
3	Russet Norkotah	1.078	1.077	<b>1.078</b>	<b>8</b>	1.073	1.061	1.069	1.072	<b>1.069</b>	<b>14</b>
5	A02449-100		1.075	<b>1.075</b>	<b>11</b>		1.067	1.076	1.077	<b>1.073</b>	<b>13</b>
6	A06030-23	1.081	1.079	<b>1.080</b>	<b>5</b>	1.091	1.065	1.080	1.085	<b>1.080</b>	<b>9</b>
7	A061070-3CSR	1.074	1.075	<b>1.075</b>	<b>13</b>	1.092	1.073	1.086	1.085	<b>1.084</b>	<b>6</b>
8	A061071-3CSR	1.077	1.077	<b>1.077</b>	<b>9</b>	1.087	1.068	1.079	1.084	<b>1.079</b>	<b>11</b>
9	A06862-14VR	1.090	1.091	<b>1.090</b>	<b>1</b>	1.094	1.093	1.092	1.090	<b>1.092</b>	<b>1</b>
10	A07008-4T	1.086	1.089	<b>1.088</b>	<b>2</b>	1.097	1.077	1.093	1.094	<b>1.090</b>	<b>2</b>
11	A08009-2TE	1.076	1.074	<b>1.075</b>	<b>12</b>	1.088	1.076	1.084	1.085	<b>1.083</b>	<b>7</b>
12	A08433-4VR	1.063	1.078	<b>1.070</b>	<b>14</b>	1.093	1.070	1.081	1.076	<b>1.080</b>	<b>10</b>
13	A09001-12TE	1.075	1.082	<b>1.078</b>	<b>6</b>	1.092	1.079	1.086	1.089	<b>1.086</b>	<b>5</b>
14	A09001-14TE	1.079	1.078	<b>1.078</b>	<b>7</b>	1.089	1.084	1.090	1.092	<b>1.089</b>	<b>3</b>
15	AO06191-1	1.081	1.082	<b>1.081</b>	<b>4</b>	1.095	1.084	1.082	1.093	<b>1.089</b>	<b>4</b>
<b>Location Means</b>		<b>1.078</b>	<b>1.080</b>	<b>1.079</b>		<b>1.089</b>	<b>1.075</b>	<b>1.082</b>	<b>1.084</b>	<b>1.082</b>	
<b>LSD (0.5)</b>										<b>0.007</b>	

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

No. Clone	Average Tuber Size (oz)							Tuber Shape (Length/Width Ratio)					
	ID E	WA E	ID L	OR Herm	OR KF	WA L	Entry Late only	WA E	ID L	OR Herm	OR KF	WA L	Entry Means
1 Ranger Russet	7.6	6.1	9.8	7.5	5.6	8.4	<b>7.8</b>	2.18	2.13	2.18	2.20	2.02	<b>2.14</b>
2 Russet Burbank	6.1	6.7	8.3	7.1	5.0	7.4	<b>6.9</b>	2.23	1.97	2.14	1.96	2.04	<b>2.07</b>
3 Russet Norkotah	6.5	7.5	6.2	6.6	6.3	7.0	<b>6.5</b>	2.08	1.95	2.16	1.87	1.81	<b>1.97</b>
5 A02449-100		8.9	5.2	8.5	7.6	8.0	<b>7.3</b>	1.77		1.76	1.76	1.66	<b>1.74</b>
6 A06030-23	6.7	6.2	8.4	4.7	6.1	8.0	<b>6.8</b>	1.87	2.00	1.78	1.80	1.72	<b>1.83</b>
7 A061070-3CSR	7.1	7.1	9.8	5.5	6.3	8.8	<b>7.6</b>	1.59	1.65	1.82	1.59	1.42	<b>1.61</b>
8 A061071-3CSR	9.0	7.8	11.3	7.1	9.1	9.2	<b>9.2</b>	1.56	1.50	1.90	1.41	1.44	<b>1.56</b>
9 A06862-14VR	5.9	6.6	8.1	7.5	6.0	8.1	<b>7.4</b>	1.65	1.76	1.89	1.65	1.65	<b>1.72</b>
10 A07008-4T	6.4	5.2	8.9	5.1	5.4	6.1	<b>6.4</b>	1.77	1.99	2.03	1.92	1.80	<b>1.90</b>
11 A08009-2TE	6.4	5.2	8.2	6.0	7.1	7.3	<b>7.1</b>	1.84	1.84	1.89	1.63	1.71	<b>1.78</b>
12 A08433-4VR	5.6	6.7	10.5	6.6	4.9	8.7	<b>7.7</b>	1.56	1.56	1.72	1.42	1.65	<b>1.58</b>
13 A09001-12TE	10.7	7.7	12.9	7.5	7.1	9.2	<b>9.2</b>	1.53	1.48	1.65	1.36	1.38	<b>1.48</b>
14 A09001-14TE	7.9	6.3	10.7	8.0	6.6	7.3	<b>8.1</b>	1.46	1.56	1.72	1.29	1.29	<b>1.46</b>
15 A006191-1	4.7	9.5	7.9	12.7	8.1	12.2	<b>10.2</b>	1.92	1.92	1.96	1.85	1.69	<b>1.86</b>
<b>Location Means</b>	<b>7.0</b>	<b>7.0</b>	<b>9.0</b>	<b>7.2</b>	<b>6.5</b>	<b>8.3</b>	<b>7.7</b>	<b>1.78</b>	<b>1.79</b>	<b>1.90</b>	<b>1.69</b>	<b>1.66</b>	<b>1.77</b>
<b>LSD (0.5)</b>							<b>1.9</b>						<b>0.13</b>

TABLE 9: 2015 Tri-State Potato Variety Trial - TUBERS PER PLANT AND EYE DEPTH

No. Clone	Average Tuber per Plant							Eye Depth (1-5, 5=shallow)					Entry Means
	ID E	WA E	ID L	OR Herm	OR KF	WA L	Entry Late only	WA E	ID	OR Herm	OR KF	WA L	
1 Ranger Russet	4.4	8.2	4.5	8.3	6.5	8.8	<b>7.0</b>	2.7	2.7	3.0	3.5	3.0	<b>3.0</b>
2 Russet Burbank	5.0	6.9	4.5	11.4	6.6	8.0	<b>7.6</b>	3.0	3.4	3.5	4.4	3.0	<b>3.5</b>
3 Russet Norkotah	5.5	6.7	4.8	6.5	5.1	8.1	<b>6.1</b>	3.0	3.5	3.5	3.5	3.5	<b>3.4</b>
5 A02449-100		6.3		7.9	5.8	7.9	<b>7.2</b>	3.0		3.3	3.8	4.0	<b>3.5</b>
6 A06030-23	5.3	7.6	4.6	6.3	6.2	7.4	<b>6.1</b>	3.0	3.8	3.4	4.3	3.0	<b>3.5</b>
7 A061070-3CSR	5.9	6.8	5.7	12.2	7.2	9.2	<b>8.6</b>	2.0	3.0	3.5	4.1	2.0	<b>2.9</b>
8 A061071-3CSR	4.4	6.3	3.9	7.3	5.0	7.7	<b>6.0</b>	2.0	3.0	3.3	3.3	2.5	<b>2.8</b>
9 A06862-14VR	3.2	8.2	4.1	7.9	6.2	8.2	<b>6.6</b>	3.0	3.8	3.6	3.9	4.0	<b>3.7</b>
10 A07008-4T	5.6	9.2	5.0	8.9	8.0	8.1	<b>7.5</b>	3.0	3.8	3.9	3.3	4.0	<b>3.6</b>
11 A08009-2TE	6.0	10.3	6.5	10.2	6.7	9.8	<b>8.3</b>	3.0	4.0	3.6	4.6	3.0	<b>3.7</b>
12 A08433-4VR	6.3	7.4	4.5	9.6	8.8	8.7	<b>7.9</b>	3.0	3.5	4.0	4.5	4.0	<b>3.8</b>
13 A09001-12TE	3.5	7.0	3.8	7.6	6.1	7.4	<b>6.2</b>	2.0	3.0	3.1	3.1	4.0	<b>3.1</b>
14 A09001-14TE	4.6	8.0	4.1	8.7	7.3	8.4	<b>7.1</b>	2.0	3.3	3.4	3.8	4.0	<b>3.3</b>
15 AO06191-1	5.9	4.3	4.4	4.4	5.5	4.4	<b>4.7</b>	3.0	3.5	3.0	3.5	3.0	<b>3.2</b>
<b>Location Means</b>	<b>5.0</b>	<b>7.4</b>	<b>4.6</b>	<b>8.4</b>	<b>6.5</b>	<b>8.0</b>	<b>6.9</b>	<b>2.7</b>	<b>3.4</b>	<b>3.4</b>	<b>3.8</b>	<b>3.4</b>	<b>3.3</b>

TABLE 10: 2015 Tri-State Potato Variety Trial - TUBER DISCRIPTORS

No. Clone	Tuber Uniformity <sup>1</sup>					Shatter <sup>1</sup>				Greening <sup>1</sup>					
	WA E	ID L	OR KF	WA L	Entry Means	WA E	OR KF	ID L	Entry Means	WA E	ID L	OR Herm	OR KF	WA L	Entry Means
1 Ranger Russet	3.0	3.4	2.6	3.0	<b>3.0</b>	4.0	4.8	4.0	<b>4.3</b>	5.0	4.8	4.3	3.6	4.0	<b>4.3</b>
2 Russet Burbank	1.0	2.4	2.4	2.8	<b>2.1</b>	4.0	4.5	3.6	<b>4.0</b>	5.0	4.5	4.1	3.9	4.3	<b>4.4</b>
3 Russet Norkotah	3.0	4.0	4.0	4.0	<b>3.8</b>	4.0	5.0	4.5	<b>4.5</b>	5.0	4.1	4.6	4.1	4.0	<b>4.4</b>
5 A02449-100	2.0		3.4	4.0	<b>3.1</b>	5.0	4.5		<b>4.8</b>	4.0		3.9	1.6	2.7	<b>3.0</b>
6 A06030-23	4.0	3.7	3.9	3.8	<b>3.8</b>	3.0	5.0	2.9	<b>3.6</b>	5.0	3.9	4.8	3.5	4.0	<b>4.2</b>
7 A061070-3CSR	2.0	3.3	2.8	1.8	<b>2.5</b>	5.0	5.0	4.5	<b>4.8</b>	5.0	3.8	4.1	2.9	4.0	<b>4.0</b>
8 A061071-3CSR	3.0	3.4	3.9	2.9	<b>3.3</b>	3.0	4.9	2.9	<b>3.6</b>	5.0	4.8	4.4	3.5	4.0	<b>4.3</b>
9 A06862-14VR	2.0	3.1	3.5	3.3	<b>3.0</b>	2.0	4.0	2.7	<b>2.9</b>	5.0	4.3	4.0	3.5	4.0	<b>4.2</b>
10 A07008-4T	3.0	3.7	3.5	4.0	<b>3.6</b>	3.0	5.0	3.8	<b>3.9</b>	5.0	3.9	4.5	4.3	4.0	<b>4.3</b>
11 A08009-2TE	4.0	3.2	3.6	2.8	<b>3.4</b>	3.0	5.0	4.8	<b>4.3</b>	5.0	4.0	4.3	4.1	4.0	<b>4.3</b>
12 A08433-4VR	2.0	3.3	3.5	3.3	<b>3.0</b>	5.0	4.3	4.5	<b>4.6</b>	5.0	4.0	3.5	3.6	4.0	<b>4.0</b>
13 A09001-12TE	3.0	2.8	3.0	4.0	<b>3.2</b>	4.0	4.4	3.9	<b>4.1</b>	5.0	2.8	4.4	3.4	2.8	<b>3.7</b>
14 A09001-14TE	2.7	2.7	3.5	3.3	<b>3.0</b>	5.0	5.0	3.0	<b>4.3</b>	5.0	3.3	4.4	3.9	4.3	<b>4.2</b>
15 AO06191-1	4.0	3.9	3.6	4.0	<b>3.9</b>	2.0	4.4	3.7	<b>3.4</b>	5.0	2.7	3.8	3.6	4.3	<b>3.9</b>
<b>Location Means</b>	<b>2.8</b>	<b>3.3</b>	<b>3.4</b>	<b>3.3</b>	<b>3.2</b>	<b>3.7</b>	<b>4.7</b>	<b>3.8</b>	<b>4.1</b>	<b>4.9</b>	<b>3.9</b>	<b>4.2</b>	<b>3.5</b>	<b>3.9</b>	<b>4.1</b>

<sup>1</sup> Score 1-5, with 5=Best.

TABLE 11: 2015 Tri-State Potato Variety Trial - EXTERNAL DEFECTS - GROWTH CRACKS, SECOND GROWTH,  
SHATTER BRUISE, SCAB - MEANS OF LOCATIONS

No.	Clone	Growth Cracks <sup>1</sup>		Second Growth <sup>1</sup>		Shatter Bruise <sup>1</sup>			Scab <sup>1</sup>	
		Early	Late	Early	Late	EWA	Late	AB <sup>2</sup>	Early	Late
1	Ranger Russet	4.6	4.0	4.4	3.5	4.0	4.4	3.3	4.4	4.6
2	Russet Burbank	4.4	3.6	3.2	2.5	4.0	3.4	3.1	5.0	4.9
3	Russet Norkotah	4.5	5.0	4.6	4.8	4.0	4.5	3.4	4.9	4.7
5	A02449-100	4.0	4.5	4.7	4.9	5.0	3.9		5.0	4.9
6	A06030-23	4.1	4.2	4.9	4.9	3.0	3.9	3.2	5.0	4.8
7	A061070-3CSR	4.8	3.9	4.9	3.4	5.0	3.9	3.5	3.8	4.5
8	A061071-3CSR	4.5	3.7	4.5	4.8	3.0	3.1	2.6	5.0	4.7
9	A06862-14VR	3.8	3.1	3.9	4.3	2.0	2.8	2.5	4.8	4.6
10	A07008-4T	3.8	4.4	4.8	4.7	3.0	2.9	3.1	4.9	4.5
11	A08009-2TE	4.6	4.4	4.8	4.3	3.0	3.9	3.5	5.0	4.8
12	A08433-4VR	4.5	4.5	5.0	4.8	5.0	4.3	3.2	5.0	4.8
13	A09001-12TE	5.0	4.3	4.0	4.2	4.0	2.7	3.1	4.5	4.5
14	A09001-14TE	4.5	4.0	4.8	4.2	5.0	2.4	2.7	4.8	4.6
15	AO06191-1	4.8	4.5	4.7	4.7	2.0	2.5	3.4	5.0	4.9
<b>Means</b>		<b>4.4</b>	<b>4.1</b>	<b>4.5</b>	<b>4.3</b>	<b>3.7</b>	<b>3.5</b>	<b>3.1</b>	<b>4.8</b>	<b>4.7</b>
<b>LSD (.05)</b>										

<sup>1</sup> Score 1-5, with 1=severe, 5=none.

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

TABLE 12: 2015 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				
		Early	Late	Early	Late	Early	Late	Washington <sup>2</sup>		Herm	KF	AB <sup>4</sup>
								Early	Late	OR <sup>3</sup>	OR <sup>3</sup>	
1	Ranger Russet	0.0	0.0	0.0	0.6	-n/a-	20.8	5.0	5.0	10.0	2.5	1.8
2	Russet Burbank	3.8	1.3	0.0	0.0	-n/a-	5.8	5.0	5.0	15.0	0.0	2.0
3	Russet Norkotah	10.4	10.0	0.0	1.1	-n/a-	4.2	5.0	5.0	2.5	2.5	2.2
5	A02449-100	0.0	0.0	3.3	0.8	-n/a-		5.0	5.0	15.0	7.5	
6	A06030-23	0.0	0.0	0.0	0.0	-n/a-	14.2	5.0	5.0	7.5	0.0	1.9
7	A061070-3CSR	5.0	6.6	1.7	0.8	-n/a-	21.7	5.0	5.0	10.0	0.0	2.4
8	A061071-3CSR	10.0	1.4	0.0	0.6	-n/a-	8.3	5.0	5.0	7.5	0.0	2.6
9	A06862-14VR	1.3	0.0	0.0	0.7	-n/a-	0.0	5.0	5.0	30.0	2.5	1.9
10	A07008-4T	30.0	14.4	0.0	3.1	-n/a-	7.5	5.0	5.0	2.5	0.0	2.9
11	A08009-2TE	0.0	0.0	0.0	12.0	-n/a-	21.7	5.0	5.0	0.0	0.0	2.5
12	A08433-4VR	3.4	4.4	1.7	0.0	-n/a-	4.2	5.0	5.0	7.5	0.0	2.4
13	A09001-12TE	5.0	1.9	0.0	3.8	-n/a-	10.8	5.0	5.0	2.5	0.0	2.1
14	A09001-14TE	0.0	0.0	0.0	0.7	-n/a-	5.8	5.0	5.0	7.5	0.0	1.7
15	AO06191-1	0.0	0.0	0.0	0.0	-n/a-	0.8	5.0	4.0	20.0	0.0	1.9
<b>Means</b>		<b>4.9</b>	<b>2.8</b>	<b>0.5</b>	<b>1.7</b>		<b>9.7</b>	<b>5.0</b>	<b>4.9</b>	<b>10</b>	<b>1.1</b>	<b>2.2</b>

<sup>1</sup> Rating of Stem-end Browning + VD

<sup>2</sup> Score 1-5, with 1=severe, 5=none.

<sup>3</sup> Oregon is percentage of tuber showing impact bruising.

<sup>4</sup> Aberdeen blackspot scores from an abrasive peel test [1-5(none)].

TABLE 13: 2015 Tri-State Potato Variety Trial - FRENCH FRY COLOR (00-4.0(darkest)), AND PERCENT SUGAR ENDS

No.	Clone	Fry 44 or 45°						Fry 40°				% Sugar Ends		
		ID <sup>1</sup>	HRM	LWA <sup>2</sup>	All Entries		Postharvest 3 state avg. <sup>3</sup>	ID <sup>1</sup>	LWA <sup>2</sup>	Mean	Postharvest 3 state avg. <sup>3</sup>	ID	HRM	Entry Mean
					Mean	Rank								
1	Ranger Russet	0.6	2.4	0.0	<b>1.0</b>	<b>8</b>	0.0	3.8	3.0	<b>3.4</b>	2.3	33	7.5	<b>20</b>
2	Russet Burbank	0.6	2.7	2.0	<b>1.8</b>	<b>13</b>	1.3	4.0	4.0	<b>4.0</b>	3.3	58	7.5	<b>33</b>
3	Russet Norkotah	0.9	3.3		<b>2.1</b>	<b>14</b>		4.0		<b>4.0</b>	1.5	21	20.0	<b>21</b>
5	A02449-100		2.2	0.0	<b>1.1</b>	<b>10</b>	0.0		2.0	<b>2.0</b>	1.5		0.0	<b>0</b>
6	A06030-23	0.3	1.7	0.0	<b>0.7</b>	<b>1</b>	0.0	1.6	0.0	<b>0.8</b>	0.7	4	2.5	<b>3</b>
7	A061070-3CSR	0.4	1.9	0.0	<b>0.8</b>	<b>3</b>	0.0	1.6	1.0	<b>1.3</b>	0.7	4	5.0	<b>5</b>
8	A061071-3CSR	0.3	2.0	0.0	<b>0.8</b>	<b>4</b>	0.0	3.1	3.0	<b>3.1</b>	2.0	0	7.5	<b>4</b>
9	A06862-14VR	0.5	2.3	0.0	<b>0.9</b>	<b>7</b>	0.0	1.6	2.0	<b>1.8</b>	1.0	23	0.0	<b>12</b>
10	A07008-4T	0.6	1.7	0.0	<b>0.8</b>	<b>2</b>	0.0	3.8	2.0	<b>2.9</b>	1.3	13	0.0	<b>7</b>
11	A08009-2TE	1.1	2.9	0.0	<b>1.3</b>	<b>11</b>	0.3	4.0	4.0	<b>4.0</b>	3.3	29	7.5	<b>18</b>
12	A08433-4VR	0.9	3.2	0.0	<b>1.4</b>	<b>12</b>	0.0	3.9	4.0	<b>4.0</b>	3.7	31	0.0	<b>16</b>
13	A09001-12TE	0.3	2.0	0.0	<b>0.8</b>	<b>5</b>	0.0	2.3	2.0	<b>2.2</b>	1.3	4	5.0	<b>5</b>
14	A09001-14TE	0.5	2.1	0.0	<b>0.9</b>	<b>6</b>	0.0	3.9	2.0	<b>3.0</b>	1.3	4	7.5	<b>6</b>
15	AO06191-1	0.6	2.5	0.0	<b>1.0</b>	<b>9</b>	0.0	4.0	3.0	<b>3.5</b>	2.7	6	0.0	<b>3</b>
<b>Location Means</b>		<b>0.6</b>	<b>2.4</b>	<b>0.2</b>	<b>1.1</b>		<b>0.1</b>	<b>3.2</b>	<b>2.5</b>	<b>2.8</b>	<b>1.9</b>	<b>18</b>	<b>5</b>	<b>10.7</b>

<sup>1</sup> Samples held for 4 week cool down period - 7 weeks at storage temperature.

<sup>2</sup> Samples held for 60 days at 44 or 40°F

<sup>3</sup> Three state average processed at Washington - For complete postharvest results see <http://www.potatoes.wsu.edu/>

TABLE 14: 2015 Tri-State Potato Variety Trial - DISEASE EVALUATIONS, METRIBUZIN REACTION

No. Clone	Vert. Wilt/ Early Dying		Early Blight						Late Blight			Common Scab		% Net Necrosis/ vascular discoloration		Rhizoc.	Pecto- bacterium	Metr.
	AB <sup>1</sup>		HERM		AB <sup>1</sup>		Tuber Incidence (%)	% Serious Defect	CORV <sup>2</sup>			AB <sup>1</sup>		AB <sup>1</sup>		KLAM <sup>3</sup> (1- 5=none) <sup>3</sup>	AB	Reaction
	(0-9)*	AUDPC	(0-9)*	AUDPC	(0-9)*	AUDPC			Foliar	Tuber	0-9	AUDPC	%	Incidence (%)	% Serious Defects			
							AB <sup>1</sup>	HERM								Foliar	Tuber	Incidence
1 Ranger Russet	5.7	242	3.5	82	6.0	309	7	4	8.0	880	35.0	16.7	0.0	70	0	4.8	0.4	R
2 Russet Burbank	6.3	356	9.0	1431	6.7	344	6	0	8.8	1143	10.0	0.0	0.0	45	8	4.5	1.0	R
3 Russet Norkotah	9.0	1120	9.0	2178	9.0	910	0	0	9.0	1187	42.5	0.0	0.0	74	17	5.0	2.3	na
4 Shepody	6.0	236	5.0	345	7.0	438	1	0	7.8	983	5.0	3.2	1.0	50	10	na	4.1	S
5 A02449-100	7.0	403	9.0	1758	7.5	551	3	0	9.0	1174	0.0	8.8	6.7	49	0	5.0	1.7	MR
6 A06030-23	8.0	712	9.0	2565	7.3	712	8	3	9.0	1172	15.0	26.7	10.0	63	9	4.9	0.7	MR
7 A061070-3CSR	5.3	224	5.0	539	5.3	298	22	6	7.8	1016	0.0	1.2	0.0	71	7	4.3	1.3	R
8 A061071-3CSR	6.0	282	5.5	818	6.7	449	7	3	8.5	1131	47.5	41.9	4.8	62	3	4.6	2.0	MR
9 A06862-14VR	7.0	379	7.5	787	7.3	467	78	62	9.0	1176	15.0	18.1	6.2	50	4	4.9	0.7	R
10 A07008-4T	5.7	258	8.5	1484	6.0	321	10	0	9.0	1166	15.0	1.0	0.0	77	13	4.8	0.5	MR
11 A08009-2TE	4.7	118	4.3	188	4.7	168	0	0	7.8	1025	0.0	1.2	0.0	57	6	5.0	1.5	MR
12 A08433-4VR	5.5	189	4.8	177	6.0	327	3	0	7.5	929	2.5	4.6	0.0	48	3	3.5	2.2	R
13 A09001-12TE	4.7	118	8.3	1067	5.0	207	0	0	8.3	1121	2.5	2.2	0.0	64	0	5.0	0.1	R
14 A09001-14TE	2.7	39	4.3	124	5.7	261	6	2	7.5	977	10.0	10.2	1.3	43	0	4.1	0.8	MR
15 AO06191-1	7.0	438	8.3	1061	6.0	302	3	0	8.3	1112	15.0	1.2	1.2	47	0	5.0	3.4	R
<b>MEANS</b>	<b>6.0</b>	<b>341</b>	<b>6.7</b>	<b>974</b>	<b>6.4</b>	<b>404</b>	<b>10</b>	<b>5</b>	<b>8.3</b>	<b>1079</b>	<b>14.3</b>	<b>9.1</b>	<b>2.1</b>	<b>58</b>	<b>5</b>	<b>4.7</b>	<b>1.5</b>	
<b>LSD @ .05</b>	<b>1.6</b>				<b>1.3</b>		<b>11</b>	<b>7</b>	<b>0.6</b>	<b>100.9</b>	<b>20.4</b>	<b>16.4</b>	<b>7.1</b>	<b>24.0</b>	<b>17.0</b>	<b>0.8</b>	<b>1.3</b>	

\* days after planting (121 at Aberdeen, 134 at Hermiston)

<sup>1</sup> 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 and Net Necrosis serious defects are the number of tubers with a 3 rating (0-5 scale) or higher, divided by the total number of tubers examined. Net necrosis data from PLRV-infected plots.

For 0 to 5: 0=none, 5=severe as a combination of tuber area and degree impacted by Pectobacterium inoculations.

<sup>2</sup> Evaluations made at Corvallis, Oregon by Solomon Yilma; 1=no foliar injury; 3=5-10%; 5=25-40%; 7=60-75%; 8=75-90%; 9=90-100%.

Late blight AUDPC=area under the disease progress curve. Higher number indicates more disease over time; % of tubers examined with any late blight symptoms.

<sup>3</sup> *Rhizoctonia solani* readings made by Brian Charlton, Klamath Falls, Oregon; scale as indicated with lowest number being most severe

<sup>4</sup> Metribuzin Reaction measured at Aberdeen, ID. VR=very resistant, R=Resistant, MR=Moderately resistant, MS=moderately susceptible, S=susceptible VS=very susceptible

# 2014 data to be replaced as soon as available in the online version



TABLE 15: Solids, Dextrose and Sucrose, Protein, Vitamin C and Glycoalkaloids  
- Tubers Grown at Aberdeen, Idaho

No.	Clone	Solids Oven Dry (%)	Sugars		Protein (%DWB)	Vitamin C (mg/100g FWB)	Glycoalkaloids (mg/100gFWB)
			Dextrose (%FWB)	Sucrose (%FWB)			
1	Ranger Russet	22.99	0.076	0.156	5.56	24.39	8.14
2	Russet Burbank	20.98	0.060	0.146	4.97	21.55	2.06
3	Russet Norkotah	19.72	0.068	0.126	5.21	19.10	1.06
5	A02449-100						
6	A06030-23	22.58	0.007	0.150	6.36	19.30	12.56
7	A061070-3CSR	22.23	0.026	0.168	6.61	22.12	13.74
8	A061071-3CSR	22.01	0.017	0.138	5.98	21.45	9.31
9	A06862-14VR	23.21	0.008	0.157	6.00	23.96	10.98
10	A07008-4T	23.97	0.022	0.210	6.98	20.48	1.79
11	A08009-2TE	22.86	0.095	0.197	5.57	27.85	2.77
12	A08433-4VR	22.24	0.080	0.170	4.44	19.52	1.94
13	A09001-12TE	22.25	0.027	0.181	6.28	17.58	14.96
14	A09001-14TE	21.37	0.030	0.144	5.38	17.38	6.36
15	AO06191-1	24.46	0.044	0.200	5.03	22.69	16.59
<b>Means</b>		<b>22.4</b>	<b>0.043</b>	<b>0.165</b>	<b>5.72</b>	<b>21.3</b>	<b>7.9</b>

FWB = fresh weight basis DWB = dry weight basis

Glycoalkaloids: The 2015 Lenape check from Aberdeen was 37.68 mg/100g

TABLE 16: 2015 Tri-State Potato Variety Trial - MERIT SCORES (1-5(best))

No.	Clone	Early WA	Process				RANK	Postharvest Merit * 3 State Avg.	Early ID	Early WA	Fresh					
			ID	HOR	WA	LATE MEANS					ID	HOR	KFOR	WA	LATE MEANS	RANK
1	Ranger Russet	4.0	2.5	2.0	4.1	2.9	8	32.5	2.1	1.4	2.0	2.0	2.0	2.6	2.1	9
2	Russet Burbank	1.3	2.0	2.0	1.3	1.8	14	18.2	1.7	0.6	1.4	1.5	1.8	1.1	1.5	14
3	Russet Norkotah	2.6	3.0	1.5		2.3	11		2.3	1.8	3.7	3.0	3.8	2.5	3.3	2
5	A02449-100	2.6		2.5	1.1	1.8	13	30.5		1.6		2.5	1.8	0.9	1.7	13
6	A06030-23	2.8	3.5	3.0	3.4	3.3	2	34.0	4.1	3.1	4.0	3.5	3.0	2.9	3.3	1
7	A061070-3CSR	2.6	4.0	3.0	4.1	3.7	1	31.6	2.8	1.9	2.5	2.5	1.0	1.9	2.0	11
8	A061071-3CSR	2.8	3.0	2.0	3.7	2.9	7	32.9	1.8	1.7	3.0	2.0	3.3	1.6	2.5	6
9	A06862-14VR	3.7	2.5	1.5	3.4	2.5	10	33.8	2.2	1.8	2.0	2.0	1.5	2.2	1.9	12
10	A07008-4T	3.4	3.0	2.0	1.8	2.3	11	34.7	2.8	0.9	3.5	2.0	2.5	0.9	2.2	8
11	A08009-2TE	3.4	2.5	3.0	3.9	3.1	3	26.9	3.8	2.0	3.8	2.5	3.0	2.5	3.0	4
12	A08433-4VR	3.2	3.0	2.5	3.4	3.0	5	31.0	2.4	1.9	2.8	2.5	1.5	3.8	2.6	5
13	A09001-12TE	4.2	3.5	3.0	2.5	3.0	4	32.5	2.0	2.2	2.4	3.5	1.0	2.3	2.3	7
14	A09001-14TE	3.1	3.0	3.5	2.2	2.9	6	35.4	2.7	1.4	2.4	3.0	2.0	0.7	2.0	10
15	AO06191-1	3.6	3.0	3.0	2.4	2.8	9	33.7	3.7	3.4	3.8	3.0	4.0	1.8	3.1	3
<b>Location Means</b>		<b>3.1</b>	<b>3.0</b>	<b>2.5</b>	<b>2.9</b>	<b>2.7</b>			<b>2.6</b>	<b>1.8</b>	<b>2.9</b>	<b>2.5</b>	<b>2.3</b>	<b>2.0</b>	<b>2.4</b>	

\* For Complete information and procedures see Washington at [www.potatoes.wsu.edu/](http://www.potatoes.wsu.edu/)

TABLE 17: 2015 Tri-State Potato Variety Trial - SUMMARY

Clone	Year in Trial		Use	Yield		% US#1's	Tuber Size		Specific Gravity		Fry Color		P F	Merit Score	Comments	Dis
	1	2		Late	Early		Small	Large	1.000	1.000	1.0	2.0				
1	Ranger	Russet	Ck	Dual	617		431 68	7.8	1.082		1.0	2.9 2.1				
2	Russet	Burbank	Ck	Dual	641		364 59	6.9	1.075		1.8	1.8 1.3				
3	Russet	Norkotah	Ck	Fresh	458	Low	385 82	6.5	1.069		2.1	High 3.1				
5	A02449-100		1	Dual	680		531 76	7.3	1.073	Low	1.1	1.8 1.7	Low			
6	A06030-23		1	Dual	471	Low	388 80	6.8	1.080		0.7	3.3 3.5	High			
7	A061070-3CSR		1	Dual	715	High	535 73	7.6	1.084		0.8	3.7 2.3				
8	A061071-3CSR		1	Dual	590		485 81	9.2	1.079		0.8	2.9 2.2				
9	A06862-14VR		1	Dual	560		438 74	7.4	1.092		0.9	2.5 2.1		Blackspot		
10	A07008-4T		2	Dual	524		423 80	6.4	1.090		0.8	2.3 2.1		Hollow Heart		
11	A08009-2TE		1	Dual	653		484 84	High 7.1	1.083		1.3	3.1 2.9				
12	A08433-4VR		1	Dual	662		522 78	7.7	1.080		1.4	3.0 3.0				
13	A09001-12TE		1	Dual	607		516 84	High 9.2	1.086		0.8	3.0 2.7		Glycoalkaloids		
14	A09001-14TE		1	Dual	642		508 79	8.1	1.089		0.9	2.9 2.0				
15	AO06191-1		2	Dual	524		444 83	High 10.2	Large 1.089		1.0	2.8 2.9		Blackspot Glycoalkaloids		

TABLE 18: 2015 Tri-State Potato Variety Trial - COMMENTS BY STATE

Entry	Clone	Early Idaho	Comments from Idaho Late	Comments from Klamath Falls
1	Ranger Russet	misshaped, deep eyes, Attached Stolen, points	Knobs, Slightly Deep Eyes, Points	crooks x3, long x2, skinny x4, small, pointy stem end
2	Russet Burbank	knobs, Growth Crack, ugly, bumps	Knobs, Mis-Shapen, Ugly	misshape, skinny, growth cracks, small x2, pop eyes
3	Russet Norkotah	misshaped, deep eyes, Attached Stolen, points	Small, Slightly Deep Eyes, Few Mis-Shapen,	nice, typy x4, looks good, some pointy stem ends
5	A02449-100	misshaped, bulgy eyes, rot, green		good size, process only x2, long, skinny, lenticel scaring, misshaped
6	A06030-23	nice shape, some curves, green	Good Shape, Slight Curve, Shatter	typy x3, small, nice x3,
7	A061070-3CSR	scab, Attached Stolen	Russetting, Knobs, Brow	growth cracks x3, misshaped x2, #2s, irregular size, too round, small, CRS
8	A061071-3CSR	checking, misshaped, rot, shatter ugly big	Blocky, Checking, Slightly Deep Eyes, Growth Crack, Few Attached Stolen	big x2, plumpy x2, flat, typy, nice, keep
9	A06862-14VR	misshaped, shatter, Growth Crack	Growth Crack, Shatter, Mis-Shapen, Ugly	process only, typy, small, skin issues, thumbnail cracks x2
10	A07008-4T	rot, shatter, lenticels	Bumps, Points	typy x3, small x3, lenticel scaring, pointy stem ends x2, skinny
11	A08009-2TE	nice	Good Shape, Smooth Eye, Few Curves/Mis-Shapen	nice x2, typy x2, ok, dented, slight crooks, CRS
12	A08433-4VR	rot, bulgy eyes	Pear, Flat, Mis-Shapen, Points	round x3, ugly skin, thumbnail crack, rhizoc, flat
13	A09001-12TE	big, lumpy	Knobs, Bumpy, Brow, Blocky, Green	round x2, process only, misshaped, drop, plumpy
14	A09001-14TE	shatter, misshaped	Bumps, Green, Mis-Shapen, Knobs	flat x2, round x4, small x2, lenticel scaring
15	AO06191-1	some shatter, few misshaped	Nice Shape, Bumps, Green	typy x3, nice, dark, thumbnail cracks, irregular size

TABLE 19: 2015 Tri-State Harvest Potato Variety Trials - WASHINGTON STATE POSTHARVEST EVALUATIONS

Entry	Clone	Comments from Washington Early Trial	Carton Yield		Process Yield	
			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
1	Ranger Russet	Long and skinny.	49	12	65	15
2	Russet Burbank	Rough, a lot of cracks and knobs.	31	8	52	11
3	Russet Norkotah	Some points, irregular shape.	49	13	66	16
4	Shepody	Larger, round to long, Lt skin/russet, rough	51	13	72	18
5	A02449-100	Large, light russet, irregular shape,with some road mapping	36	11	67	18
6	A06030-23	Looks a bit like Mountian Gem Russet, typy.	51	12	59	14
7	A061070-3CSR	Deep eyes, short, irregular shape, light skin.	62	14	73	17
8	A061071-3CSR	Deep eyes, irregular russeting, irregular shape.	60	14	73	17
9	A06862-14VR	Variable shape both long and round. Lots of rot - beware	49	13	63	16
10	A07008-4T	Mostly typy, some points, smaller, not early.	29	7	49	11
11	A08009-2TE	Smaller, typy, blocky	36	9	51	13
12	A08433-4VR	Flat, short, some pears, bit round, medium russet	53	12	66	16
13	A09001-12TE	Plump, short, deep eyes	61	16	74	19
14	A09001-14TE	Deep eyes, a few softballs among the baseballs	46	11	60	14
15	A006191-1	Dark skinned, larger, uniform size, mostly typy.	70	14	86	17

Entry	Clone		100-50 count (US 1's 7-18 oz)		US 1's and 2's >6oz	
			% of Total Yield	Tons/A	% of Total Yield	Tons/A
			1	Ranger Russet	Mostly typy, long.	49
2	Russet Burbank	Somewhat typy.	49	17	69	24
3	Russet Norkotah	Small, typy, dark russet.	56	18	69	22
5	A02449-100	Small, round, DISCARD!	48	18	65	23
6	A06030-23	Typy, dark russet, with deep eyes, could go fresh.	62	21	77	26
7	A061070-3CSR	Irregular shape, round, bumpy, long lumps.	57	27	80	38
8	A061071-3CSR	some long some short, plump, deeper eyes.	56	22	81	33
9	A06862-14VR	Large, russeting not uniform, mostly typy.	56	21	75	29
10	A07008-4T	typy, small, nice russet.	45	13	61	18
11	A08009-2TE	Long, some rough tubers, somewhat typy.	53	22	75	31
12	A08433-4VR	Flat, light russeting, odd shapes.	64	28	80	35
13	A09001-12TE	Round with lots of greening.	65	25	79	31
14	A09001-14TE	Round, Discard!	53	19	69	24
15	A006191-1	Typy, large, looks like RN but bigger.	61	19	90	28