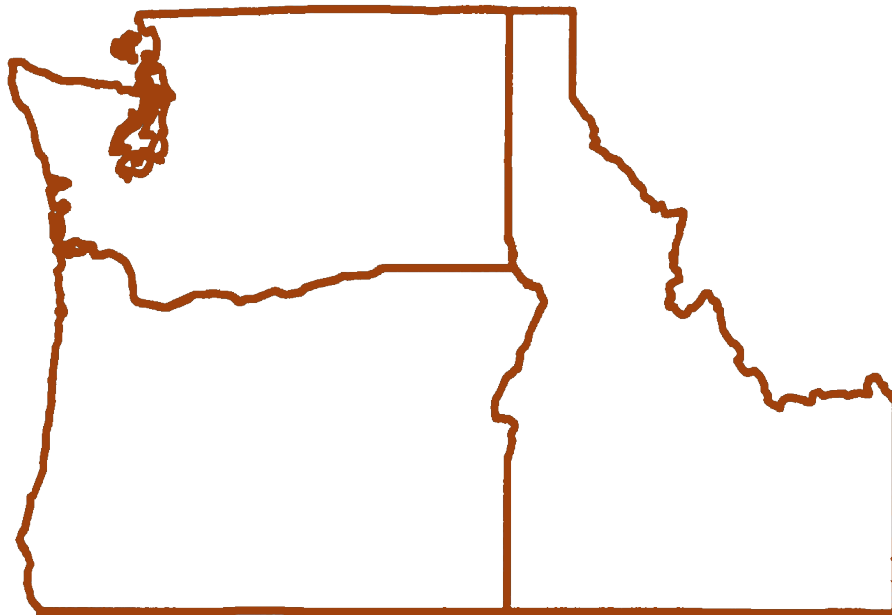


# 2014 TRI-STATE RUSSET POTATO VARIETY TRIAL REPORT

State Experiment Stations and  
USDA-ARS Cooperating



Washington

Oregon

Idaho

## 2014 TRI-STATE POTATO VARIETY TRIAL REPORT

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Compiled by Peggy Bain

## 2014 TRI-STATE RUSSET POTATO VARIETY TRIAL

TABLE 1: Locations, Cooperators, and Cultural Information

Locations	Cooperators	Planting Date	Vine Kill Date	Harvest Date	Herbicides	Insecticides	Fungicides
Aberdeen, Idaho ( <b>ID</b> ) <b>Late Trial</b>	J. Stark	2-May	2-Sep	24-Sep	Eptam 7E	Admire Pro	Manzate
Seed spacing:	J. Whitworth		<b>DAP</b>	<b>DAP</b>	TriCor 4F		Echo
10.6" in-row	R. Novy		123	145	Matrix		Gavel
36" between row	P. Bain						
<b>Fertilizer</b>	M. Chappell		mechanical				
N-P-K-S(lb/A)	<b>Early Trial</b>	<b>2-May</b>	<b>19-Aug</b>	<b>8-Sep</b>			
255-160-60			<b>DAP</b>	<b>DAP</b>			
			109	129			
Hermiston, Oregon ( <b>HOR</b> ) <b>Late Trial</b>	V. Sathuvalli	21-Apr	11-Sep	23-Sep	Vapam	Admire	Quadris
Seed spacing:			<b>DAP</b>	<b>DAP</b>	Dual Magnum	Coragen	Ridomil
9.25" in-row			143	155	Matrix	Agr-Mek	
34" between row	Roll and spray with dessicant					Actara	
<b>Fertilizer</b>						Movento/Onager	
N-P-K-S(lb/A)							
414-280-200							
Klamath Falls, Oregon ( <b>KOR</b> ) <b>Late Trial</b>	B. Charlton	15-May	25-Aug	2-Oct	Prowl	Vydate C-LV	Ridomil
Seed spacing:	N. Baley		<b>DAP</b>	<b>DAP</b>	Matrix	Admire	Vertisan
9.25" in-row			102	140			Revus Top
36" between row			Reglone + Mechanical				
<b>Fertilizer</b>							
N-P-K-S(lb/A)							
180-80-200-215							
Othello, Washington <b>Late Trial (LWA)</b>	M Pavek	30-Apr	2-Sep	9-Sep	PreEmerge:		Omega
Seed spacing:	R. Knowles		<b>DAP</b>	<b>DAP</b>	Outlook		Chloronil 720
10" in-row	N. Fuller		125	132	Prowl H20		
34" between row	Z. Holden		Mechanical/Chemical		Metribuzin		
<b>Fertilizer</b>					Post Emerge:		
N-P-K-S(lb/A)					Eptam		
140-60-320-40							
<b>Early Trial (EWA)</b>		31-Mar	21-Jul	6-Aug	PreEmerge:		Omega
Seed spacing:			<b>DAP</b>	<b>DAP</b>	Outlook		Chloronil 720
12" in-row			112	128	Prowl H20		
34" between row			Mechanical		Metribuzin		
<b>Fertilizer</b>					Post Emerge:		
N-P-K-S(lb/A)					Eptam		
100-150-200-40							

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TABLE 2: Clones, Parents, Flower Color, State Entered By, Use, Seed Source, and Percent Stand

No	Clone	Parents	Parents	Flower Color	Entered by	Use	Seed Source	Trial Year	Mean Stand %
1	Ranger Russet	Butte	A6595-3	Med Red-purple	Check	Dual	OR	Ck	97
2	Russet Burbank	Early Rose	?	White	Check	Dual	OR	Ck	97
3*	Russet Norkotah	ND9687-5 Ru	ND9526-4 Ru	White	Check	Fresh	OR	Ck	98
4*	Shepody	GEMSTAR RUSSET	A087277-6	White	ID	proc	OR	Ck	
5	A0073-2	A9304-3	A95154-1	Red-purple	ConAG	Dual	OR	3	89
6	A03141-6	A098083-9	PREMIER RUSSET	White	ID	Dual	OR	2	98
*7	A05084-11	A99081-8	A96095-3	White	ID	Dual	OR	2	
8	A06014-14TE	A98104-4	COA00287-1	White	ID	Dual	ID	1	99
9	A06020-8	A99031-1TE	Premier Russet	White	ID	Dual	ID	1	99
10*	A06029-4T	A99133-6	A99034-2E	White	ID	Dual	OR	2	
11	A06096-2	A99007-12	A98345-1	White	ID	Dual	ID	1	99
12	A06408-99LB	A96814-65LB	A0094-1	White	ID	Dual	ID	1	95
13	A06862-18VR	PA98V1-2	A98345-1	Red-purple	ID	Dual	ID	1	98
14	A06914-3CR	A00715-8	Alpine Russet	White	ID	Dual	ID	1	98
15	A07008-4T	A98082-17TE	A01025-4	White	ID	Dual	ID	1	99
16	A07103-1T	Dakota Trailblazer	A01054-4	White	ID	Dual	ID	1	98
17	A08014-11TE	Blazer Russet	A98196-5	White	ID	Dual	ID	1	96
18	A08014-9TE	Blazer Russet	A98196-5	White	ID	Dual	ID	1	95
19	AO03123-2	A98082-17	Premier R	Med Red-purple	OR	Dual	OR	2	97
20	AO06191-1	A99134-1	AC92009-4RU	White	OR	Dual	OR	1	96
21	AOR06070-1KF			White	OR	Dual	OR	2	97
22	COA05149-2	AC96052-1RU	CO99100-1RU	Med Red-purple	ID	Dual	ID	1	95
23	OR08014-4	PA99N12-1	A00082-6	White	OR	Dual	OR	1	96

\* Early Entry only

## 2014 TRI-STATE RUSSET POTATO VARIETY TRIAL

TABLE 3: Tuber and Vine Characteristics, Stems per Plant, Tubers per Plant

No	Clone	Tuber				Vine				Stems/ Plant	Tubers/ Plant
		Means	Shape	Means	Skin	Means	Size	Means	Maturity		
1	Ranger Russet	4.4	Long	3.7	Med Russet	2.6	Medium	2.8	Med Early	1.5	5.6
2	Russet Burbank	4.0	Obl-Lng	3.9	Med Russet	2.5	Small	2.5	Early	1.8	6.3
3*	Russet Norkotah	4.2	Long	4.3	Med Hvy Rus	2.0	Small	2.3	Early	1.9	6.1
4*	Shepody	3.3	Oblong	1.3	White					1.7	6.4
5	A0073-2	3.1	Oblong	3.5	Med Russet	3.1	Med-large	2.9	Med Early	1.6	6.4
6	A03141-6	3.4	Oblong	2.8	Light Russet	3.1	Med-large	1.6	Early	2.0	5.4
*7	A05084-11	2.5	Rnd-Obl	4.0	Med Russet					1.4	5.2
8	A06014-14TE	3.5	Oblong	4.2	Med Hvy Rus	1.9	Small	2.3	Early	2.1	6.1
9	A06020-8	3.8	Obl-Lng	2.7	Light Russet	3.9	Med-large	3.0	Med Early	3.0	6.8
10*	A06029-4T	2.4	Rnd-Obl	3.8	Med Russet					1.3	5.8
11	A06096-2	4.3	Long	2.6	Light Russet	4.1	Large	3.0	Med Early	3.2	9.9
12	A06408-99LB	2.7	Oblong	2.6	Light Russet	3.2	Med-large	2.8	Med Early	1.8	7.7
13	A06862-18VR	2.8	Oblong	3.0	Light Russet	3.8	Med-large	2.4	Early	2.2	6.9
14	A06914-3CR	3.3	Oblong	2.6	Light Russet	2.7	Medium	2.1	Early	2.2	8.0
15	A07008-4T	4.4	Long	4.2	Med Hvy Rus	2.9	Medium	2.6	Med Early	2.1	6.9
16	A07103-1T	3.2	Oblong	3.3	Med Russet	2.8	Medium	2.8	Med Early	1.6	5.6
17	A08014-11TE	3.4	Oblong	4.1	Med Hvy Rus	2.1	Small	2.0	Early	1.6	7.4
18	A08014-9TE	2.6	Oblong	3.7	Med Russet	2.4	Small	2.0	Early	1.8	5.9
19	AO03123-2	4.1	Long	3.0	Light Russet	3.3	Med-large	3.0	Med Early	1.9	6.0
20	AO06191-1	3.8	Obl-Lng	4.2	Med Hvy Rus	2.4	Small	1.9	Early	1.4	4.7
21	AOR06070-1KF	3.7	Obl-Lng	3.8	Med Russet	3.2	Med-large	3.1	Medium	2.4	6.4
22	COA05149-2	3.1	Oblong	3.6	Med Russet	2.6	Medium	2.3	Early	1.9	4.8
23	OR08014-4	3.3	Oblong	3.5	Med Russet	2.8	Medium	2.5	Early	2.4	6.8

Numerical values are means of all trial locations.

TABLE 4: Total Yield (CWT/A) - EARLY AND LATE HARVEST

No.	Clone	Total Yield - Early Harvest (CWT/A)				Total Yield - Late Harvest (CWT/A)					
		Early (ID)	Early (WA)	Entry Mean	Rank	(ID)	(OR)		(LWA)	Entry Mean	Rank
							Herm	KF			
1	Ranger Russet	411	463	<b>437</b>	<b>15</b>	398	690	539	609	<b>559</b>	<b>8</b>
2	Russet Burbank	307	489	<b>398</b>	<b>12</b>	319	607	471	702	<b>525</b>	<b>11</b>
3*	Russet Norkotah	267	511	<b>389</b>	<b>8</b>	238	482	386	635	<b>435</b>	<b>20</b>
4*	Shepody	186	545	<b>366</b>	<b>6</b>						
5	A0073-2	373	380	<b>377</b>	<b>23</b>	413	619	438	573	<b>511</b>	<b>13</b>
6	A03141-6	349	555	<b>452</b>	<b>5</b>	391	969	553	771	<b>671</b>	<b>3</b>
7*	A05084-11	240	430	<b>335</b>	<b>20</b>						
8	A06014-14TE	302	502	<b>402</b>	<b>9</b>	256	588	416	622	<b>471</b>	<b>17</b>
9	A06020-8	419	411	<b>415</b>	<b>22</b>	427	506	446	543	<b>481</b>	<b>15</b>
10*	A06029-4T	308	458	<b>383</b>	<b>17</b>						
11	A06096-2	506	573	<b>540</b>	<b>3</b>	577	985	665	921	<b>787</b>	<b>1</b>
12	A06408-99LB	508	604	<b>556</b>	<b>1</b>	498	760	436	784	<b>620</b>	<b>4</b>
13	A06862-18VR	349	474	<b>412</b>	<b>13</b>	390	1127	531	687	<b>684</b>	<b>2</b>
14	A06914-3CR	445	591	<b>518</b>	<b>2</b>	455	817	548	646	<b>617</b>	<b>5</b>
15	A07008-4T	390	469	<b>430</b>	<b>14</b>	409	647	549	572	<b>544</b>	<b>10</b>
16	A07103-1T	465	445	<b>455</b>	<b>19</b>	464	604	467	691	<b>557</b>	<b>9</b>
17	A08014-11TE	345	450	<b>398</b>	<b>18</b>	336	632	379	511	<b>465</b>	<b>18</b>
18	A08014-9TE	318	544	<b>431</b>	<b>7</b>	328	602	436	603	<b>492</b>	<b>14</b>
19	AO03123-2	272	429	<b>351</b>	<b>21</b>	317	737	443	553	<b>513</b>	<b>12</b>
20	AO06191-1	324	460	<b>392</b>	<b>16</b>	317	597	405	513	<b>458</b>	<b>19</b>
21	AOR06070-1KF	438	500	<b>469</b>	<b>10</b>	440	799	516	689	<b>611</b>	<b>6</b>
22	COA05149-2	324	495	<b>410</b>	<b>11</b>	304	664	378	568	<b>479</b>	<b>16</b>
23	OR08014-4	364	561	<b>463</b>	<b>4</b>	375	762	476	723	<b>584</b>	<b>7</b>
<b>Location Means</b>		<b>357</b>	<b>493</b>	<b>425</b>		<b>383</b>	<b>710</b>	<b>474</b>	<b>646</b>	<b>553</b>	

## 2014 TRI-STATE RUSSET POTATO VARIETY TRIAL

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TABLE 5: Yield of U.S. #1'S (CWT/A &amp; %) - EARLY AND LATE HARVEST

No.	Clone	USNo. 1's - Early Harvest (CWT/A)/%				U.S. No. 1's - Late Harvest (CWT/A)/%					
		Early (ID)	Early (WA)	Entry Mean	Rank	(ID)	(OR)		(LWA)	Entry Mean	Rank
							Herm	KF			
1	Ranger Russet	307	422	<b>365</b>	<b>10</b>	302	552	306	523	<b>421</b>	<b>12</b>
		74	91	<b>83</b>	<b>14</b>	76	80	57	86	<b>75</b>	<b>14</b>
2	Russet Burbank	118	416	<b>267</b>	<b>23</b>	170	456	218	549	<b>348</b>	<b>17</b>
		61	85	<b>73</b>	<b>22</b>	53	75	46	78	<b>63</b>	<b>20</b>
3*	Russet Norkotah	212	442	<b>327</b>	<b>15</b>	185	428	206	544	<b>341</b>	<b>18</b>
		79	86	<b>83</b>	<b>14</b>	78	89	54	86	<b>77</b>	<b>12</b>
4*	Shepody	115	483	<b>299</b>	<b>19</b>						
		60	89	<b>75</b>	<b>21</b>						
5	A0073-2	313	319	<b>316</b>	<b>18</b>	330	505	326	479	<b>410</b>	<b>14</b>
		84	84	<b>84</b>	<b>10</b>	80	82	74	84	<b>80</b>	<b>8</b>
6	A03141-6	295	492	<b>394</b>	<b>6</b>	340	861	265	669	<b>534</b>	<b>3</b>
		85	89	<b>87</b>	<b>4</b>	87	89	48	87	<b>78</b>	<b>10</b>
7*	A05084-11	184	390	<b>287</b>	<b>21</b>						
		75	91	<b>83</b>	<b>13</b>						
8	A06014-14TE	216	438	<b>327</b>	<b>15</b>	178	391	215	521	<b>326</b>	<b>20</b>
		71	87	<b>79</b>	<b>19</b>	70	66	52	84	<b>68</b>	<b>18</b>
9	A06020-8	303	345	<b>324</b>	<b>17</b>	320	439	220	457	<b>359</b>	<b>16</b>
		73	84	<b>79</b>	<b>20</b>	75	87	49	84	<b>74</b>	<b>15</b>
10*	A06029-4T	239	418	<b>329</b>	<b>14</b>						
		77	91	<b>84</b>	<b>10</b>						
11	A06096-2	400	473	<b>437</b>	<b>2</b>	419	656	318	718	<b>528</b>	<b>4</b>
		79	83	<b>81</b>	<b>17</b>	72	67	48	78	<b>66</b>	<b>19</b>
12	A06408-99LB	423	523	<b>473</b>	<b>1</b>	431	696	349	699	<b>544</b>	<b>2</b>
		83	87	<b>85</b>	<b>8</b>	86	92	48	89	<b>79</b>	<b>9</b>
13	A06862-18VR	299	408	<b>354</b>	<b>12</b>	348	957	298	629	<b>558</b>	<b>1</b>
		86	86	<b>86</b>	<b>6</b>	89	85	56	92	<b>81</b>	<b>7</b>
14	A06914-3CR	346	507	<b>427</b>	<b>3</b>	354	689	339	557	<b>485</b>	<b>5</b>
		78	86	<b>82</b>	<b>16</b>	78	84	62	86	<b>78</b>	<b>11</b>
15	A07008-4T	334	389	<b>362</b>	<b>11</b>	354	581	331	518	<b>446</b>	<b>7</b>
		86	83	<b>85</b>	<b>9</b>	86	90	60	91	<b>82</b>	<b>5</b>
16	A07103-1T	404	396	<b>400</b>	<b>4</b>	391	534	315	626	<b>467</b>	<b>6</b>
		87	89	<b>88</b>	<b>3</b>	84	88	67	91	<b>83</b>	<b>4</b>
17	A08014-11TE	227	346	<b>287</b>	<b>22</b>	242	456	175	436	<b>327</b>	<b>19</b>
		65	77	<b>71</b>	<b>23</b>	72	72	46	85	<b>69</b>	<b>17</b>
18	A08014-9TE	280	489	<b>385</b>	<b>7</b>	289	550	294	549	<b>421</b>	<b>13</b>
		88	90	<b>89</b>	<b>1</b>	88	91	67	91	<b>84</b>	<b>3</b>
19	AO03123-2	215	375	<b>295</b>	<b>20</b>	264	666	291	472	<b>423</b>	<b>9</b>
		79	88	<b>84</b>	<b>12</b>	83	90	66	85	<b>81</b>	<b>6</b>
20	AO06191-1	271	421	<b>346</b>	<b>13</b>	272	558	324	471	<b>406</b>	<b>15</b>
		83	91	<b>87</b>	<b>4</b>	86	93	80	92	<b>88</b>	<b>1</b>
21	AOR06070-1KF	367	433	<b>400</b>	<b>4</b>	358	710	23	602	<b>423</b>	<b>9</b>
		84	87	<b>86</b>	<b>7</b>	82	89	46	87	<b>76</b>	<b>13</b>
22	COA05149-2	274	463	<b>369</b>	<b>9</b>	257	637	268	525	<b>422</b>	<b>11</b>
		85	93	<b>89</b>	<b>1</b>	85	96	71	92	<b>86</b>	<b>2</b>
23	OR08014-4	270	482	<b>376</b>	<b>8</b>	288	625	232	625	<b>443</b>	<b>8</b>
		74	86	<b>80</b>	<b>18</b>	77	82	49	86	<b>74</b>	<b>16</b>
<b>Location Means</b>		<b>279</b>	<b>429</b>	<b>354</b>		<b>305</b>	<b>597</b>	<b>266</b>	<b>558</b>	<b>432</b>	
		<b>78</b>	<b>87</b>	<b>83</b>		<b>79</b>	<b>84</b>	<b>57</b>	<b>87</b>	<b>77</b>	

TABLE 6: Yield of U.S. #1'S &gt; 10 oz.(CWT/A &amp; %) - EARLY AND LATE HARVEST

No.	Clone	>10 oz. - Early Harvest (CWT/A)/%				>10 oz. - Late Harvest (CWT/A)/%					
		Early (ID)	Early (WA)	Entry Mean	Rank	(ID)	(OR)		(LWA)	Entry Mean	Rank
							Herm	KF			
1	Ranger Russet	143	191	<b>167</b>	<b>5</b>	189	357	147	297	<b>248</b>	<b>7</b>
		35	41	<b>38</b>	<b>5</b>	46	52	27	49	<b>44</b>	<b>7</b>
2	Russet Burbank	55	171	<b>113</b>	<b>14</b>	48	204	59	343	<b>164</b>	<b>15</b>
		18	35	<b>27</b>	<b>11</b>	15	34	12	49	<b>28</b>	<b>16</b>
3*	Russet Norkotah	48	84	<b>66</b>	<b>20</b>	28	163	76	214	<b>120</b>	<b>19</b>
		18	16	<b>17</b>	<b>20</b>	11	34	20	34	<b>25</b>	<b>18</b>
4	Shepody	36	280	<b>158</b>	<b>6</b>						
		17	51	<b>34</b>	<b>6</b>						
5	A0073-2	65	69	<b>67</b>	<b>19</b>	156	151	107	211	<b>156</b>	<b>16</b>
		17	18	<b>18</b>	<b>19</b>	37	24	24	37	<b>31</b>	<b>14</b>
6	A03141-6	148	277	<b>213</b>	<b>1</b>	178	735	211	572	<b>424</b>	<b>1</b>
		41	50	<b>46</b>	<b>2</b>	45	76	38	74	<b>58</b>	<b>1</b>
7*	A05084-11	74	207	<b>141</b>	<b>7</b>						
		29	48	<b>39</b>	<b>4</b>						
8	A06014-14TE	45	138	<b>92</b>	<b>17</b>	33	199	71	282	<b>146</b>	<b>17</b>
		15	27	<b>21</b>	<b>17</b>	14	34	17	45	<b>28</b>	<b>16</b>
9	A06020-8	34	33	<b>34</b>	<b>22</b>	61	196	58	177	<b>123</b>	<b>18</b>
		8	8	<b>8</b>	<b>22</b>	14	39	13	33	<b>25</b>	<b>18</b>
10*	A06029-4T	32	196	<b>114</b>	<b>13</b>						
		10	43	<b>27</b>	<b>11</b>						
11	A06096-2	155	85	<b>120</b>	<b>12</b>	245	292	109	212	<b>215</b>	<b>9</b>
		31	15	<b>23</b>	<b>14</b>	43	30	16	23	<b>28</b>	<b>15</b>
12	A06408-99LB	160	176	<b>168</b>	<b>4</b>	160	308	107	275	<b>213</b>	<b>10</b>
		32	29	<b>31</b>	<b>7</b>	32	40	25	35	<b>33</b>	<b>12</b>
13	A06862-18VR	74	118	<b>96</b>	<b>16</b>	143	656	193	377	<b>342</b>	<b>2</b>
		21	22	<b>22</b>	<b>15</b>	36	58	36	55	<b>46</b>	<b>5</b>
14	A06914-3CR	98	123	<b>111</b>	<b>15</b>	148	304	92	254	<b>200</b>	<b>12</b>
		22	21	<b>22</b>	<b>15</b>	32	37	17	39	<b>31</b>	<b>13</b>
15	A07008-4T	95	57	<b>76</b>	<b>18</b>	119	256	156	205	<b>184</b>	<b>14</b>
		24	12	<b>18</b>	<b>18</b>	29	40	28	36	<b>33</b>	<b>11</b>
16	A07103-1T	168	195	<b>182</b>	<b>3</b>	216	316	187	372	<b>273</b>	<b>4</b>
		37	44	<b>41</b>	<b>3</b>	47	52	40	54	<b>48</b>	<b>4</b>
17	A08014-11TE	21	31	<b>26</b>	<b>23</b>	24	125	39	148	<b>84</b>	<b>20</b>
		6	7	<b>7</b>	<b>23</b>	7	20	10	29	<b>17</b>	<b>20</b>
18*	A08014-9TE	99	169	<b>134</b>	<b>9</b>	78	265	155	257	<b>189</b>	<b>13</b>
		30	31	<b>31</b>	<b>7</b>	24	44	36	43	<b>37</b>	<b>10</b>
19	AO03123-2	13	64	<b>39</b>	<b>21</b>	72	412	147	213	<b>211</b>	<b>11</b>
		5	15	<b>10</b>	<b>21</b>	23	56	33	39	<b>38</b>	<b>9</b>
20	AO06191-1	80	168	<b>124</b>	<b>10</b>	81	391	199	335	<b>252</b>	<b>6</b>
		24	37	<b>31</b>	<b>7</b>	26	65	49	65	<b>51</b>	<b>2</b>
21	AOR06070-1KF	118	160	<b>139</b>	<b>8</b>	172	463	103	396	<b>284</b>	<b>3</b>
		26	32	<b>29</b>	<b>10</b>	39	58	20	58	<b>44</b>	<b>6</b>
22	COA05149-2	99	312	<b>206</b>	<b>2</b>	95	417	158	357	<b>257</b>	<b>5</b>
		30	63	<b>47</b>	<b>1</b>	32	63	42	63	<b>50</b>	<b>3</b>
23	OR08014-4	74	169	<b>122</b>	<b>11</b>	91	381	122	394	<b>247</b>	<b>8</b>
		20	30	<b>25</b>	<b>13</b>	25	50	26	55	<b>39</b>	<b>8</b>
<b>Location Means</b>		<b>84</b>	<b>151</b>	<b>118</b>		<b>117</b>	<b>330</b>	<b>125</b>	<b>295</b>	<b>216</b>	
		<b>22</b>	<b>30</b>	<b>26</b>		<b>29</b>	<b>45</b>	<b>26</b>	<b>46</b>	<b>37</b>	



TABLE 7: Yield of &lt;4 oz. (CWT/A &amp; %) - EARLY AND LATE HARVEST

No.	Clone	<4 oz. - Early Harvest (CWT/A)/%				<4 oz. - Late Harvest (CWT/A)/%					
		Early (ID)	Early (WA)	Entry Mean	Rank	(ID)	(OR)		(LWA)	Entry Mean	Rank
							Herm	KF			
1	Ranger Russet	24	26	<b>25</b>	<b>22</b>	19	26	24	36	<b>26</b>	<b>15</b>
		6	6	<b>6</b>	<b>22</b>	5	4	5	6	<b>5</b>	<b>17</b>
2	Russet Burbank	67	5	<b>36</b>	<b>17</b>	43	28	48	45	<b>41</b>	<b>7</b>
		22	12	<b>17</b>	<b>3</b>	14	5	10	6	<b>9</b>	<b>6</b>
3*	Russet Norkotah	44	60	<b>52</b>	<b>9</b>	40	34	23	63	<b>40</b>	<b>8</b>
		17	12	<b>15</b>	<b>6</b>	17	7	6	10	<b>10</b>	<b>4</b>
4*	Shepody	37	34	<b>36</b>	<b>18</b>						
		20	6	<b>13</b>	<b>11</b>						
5	A0073-2	39	47	<b>43</b>	<b>13</b>	25	32	34	45	<b>34</b>	<b>11</b>
		10	12	<b>11</b>	<b>14</b>	6	5	8	8	<b>7</b>	<b>10</b>
6	A03141-6	23	25	<b>24</b>	<b>23</b>	22	8	17	18	<b>16</b>	<b>20</b>
		7	5	<b>6</b>	<b>22</b>	6	1	3	2	<b>3</b>	<b>20</b>
7*	A05084-11	38	29	<b>34</b>	<b>19</b>						
		17	7	<b>12</b>	<b>13</b>						
8	A06014-14TE	65	58	<b>62</b>	<b>7</b>	58	32	32	37	<b>40</b>	<b>9</b>
		22	12	<b>17</b>	<b>3</b>	23	5	8	6	<b>11</b>	<b>3</b>
9	A06020-8	90	62	<b>76</b>	<b>2</b>	50	31	67	56	<b>51</b>	<b>3</b>
		21	15	<b>18</b>	<b>2</b>	12	7	15	10	<b>11</b>	<b>2</b>
10*	A06029-4T	67	31	<b>49</b>	<b>10</b>						
		22	7	<b>15</b>	<b>6</b>						
11	A06096-2	57	95	<b>76</b>	<b>2</b>	31	56	76	137	<b>75</b>	<b>1</b>
		11	17	<b>14</b>	<b>8</b>	5	5	11	15	<b>9</b>	<b>5</b>
12	A06408-99LB	63	62	<b>63</b>	<b>6</b>	43	47	33	48	<b>43</b>	<b>5</b>
		12	10	<b>11</b>	<b>14</b>	9	6	8	6	<b>7</b>	<b>9</b>
13	A06862-18VR	35	52	<b>44</b>	<b>12</b>	23	46	25	48	<b>36</b>	<b>10</b>
		10	11	<b>11</b>	<b>16</b>	6	4	5	7	<b>6</b>	<b>15</b>
14	A06914-3CR	59	69	<b>64</b>	<b>5</b>	46	44	61	50	<b>50</b>	<b>4</b>
		13	12	<b>13</b>	<b>12</b>	10	5	11	8	<b>9</b>	<b>7</b>
15	A07008-4T	41	78	<b>60</b>	<b>8</b>	36	28	5	34	<b>26</b>	<b>16</b>
		11	17	<b>14</b>	<b>8</b>	9	4	8	6	<b>7</b>	<b>10</b>
16	A07103-1T	40	36	<b>38</b>	<b>15</b>	22	26	15	35	<b>25</b>	<b>17</b>
		8	8	<b>8</b>	<b>20</b>	5	4	3	5	<b>4</b>	<b>19</b>
17	A08014-11TE	106	103	<b>105</b>	<b>1</b>	83	40	80	59	<b>66</b>	<b>2</b>
		31	23	<b>27</b>	<b>1</b>	24	6	21	12	<b>16</b>	<b>1</b>
18	A08014-9TE	32	41	<b>37</b>	<b>16</b>	34	27	13	41	<b>29</b>	<b>14</b>
		10	8	<b>9</b>	<b>18</b>	10	2	3	7	<b>6</b>	<b>15</b>
19	AO03123-2	45	47	<b>46</b>	<b>11</b>	29	33	33	32	<b>32</b>	<b>13</b>
		17	11	<b>14</b>	<b>8</b>	9	4	7	6	<b>7</b>	<b>12</b>
20	AO06191-1	41	22	<b>32</b>	<b>20</b>	30	9	20	15	<b>19</b>	<b>19</b>
		13	5	<b>9</b>	<b>18</b>	9	1	5	3	<b>5</b>	<b>18</b>
21	AOR06070-1KF	49	37	<b>43</b>	<b>13</b>	43	20	38	35	<b>34</b>	<b>11</b>
		11	8	<b>10</b>	<b>17</b>	10	2	7	5	<b>6</b>	<b>13</b>
22	COA05149-2	38	20	<b>29</b>	<b>21</b>	34	12	23	24	<b>23</b>	<b>18</b>
		12	4	<b>8</b>	<b>20</b>	11	2	6	4	<b>6</b>	<b>14</b>
23	OR08014-4	81	52	<b>67</b>	<b>4</b>	58	24	32	54	<b>42</b>	<b>6</b>
		22	9	<b>16</b>	<b>5</b>	15	3	7	7	<b>8</b>	<b>8</b>
<b>Location Means</b>		<b>51</b>	<b>47</b>	<b>49</b>		<b>38</b>	<b>30</b>	<b>35</b>	<b>46</b>	<b>37</b>	
		<b>15</b>	<b>10</b>	<b>13</b>		<b>11</b>	<b>4</b>	<b>8</b>	<b>7</b>	<b>7</b>	

## 2014 TRI-STATE RUSSET POTATO VARIETY TRIAL

TABLE 8: 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	1.082	1.076	<b>1.079</b>	<b>17</b>	1.084	1.077	1.086	1.084	<b>1.083</b>	<b>10</b>
2	Russet Burbank	1.072	1.084	<b>1.078</b>	<b>18</b>	1.074	1.072	1.082	1.079	<b>1.077</b>	<b>17</b>
3*	Russet Norkotah	1.073	1.070	<b>1.071</b>	<b>23</b>	1.069	1.059	1.070	1.071	<b>1.067</b>	<b>20</b>
4*	Shepody	1.067	1.078	<b>1.072</b>	<b>22</b>						
5	A0073-2	1.084	1.082	<b>1.083</b>	<b>10</b>	1.086	1.084	1.091	1.088	<b>1.088</b>	<b>2</b>
6	A03141-6	1.082	1.086	<b>1.084</b>	<b>6</b>	1.089	1.085	1.085	1.083	<b>1.085</b>	<b>4</b>
*7	A05084-11	1.075	1.073	<b>1.074</b>	<b>20</b>						
8	A06014-14TE	1.085	1.080	<b>1.082</b>	<b>11</b>	1.086	1.068	1.075	1.079	<b>1.077</b>	<b>16</b>
9	A06020-8	1.085	1.074	<b>1.079</b>	<b>16</b>	1.088	1.075	1.086	1.085	<b>1.083</b>	<b>7</b>
10*	A06029-4T	1.087	1.100	<b>1.093</b>	<b>1</b>						
11	A06096-2	1.085	1.083	<b>1.084</b>	<b>7</b>	1.087	1.071	1.081	1.084	<b>1.081</b>	<b>13</b>
12	A06408-99LB	1.088	1.079	<b>1.083</b>	<b>9</b>	1.089	1.070	1.091	1.080	<b>1.082</b>	<b>12</b>
13	A06862-18VR	1.079	1.082	<b>1.081</b>	<b>13</b>	1.084	1.083	1.091	1.082	<b>1.085</b>	<b>5</b>
14	A06914-3CR	1.081	1.081	<b>1.081</b>	<b>12</b>	1.083	1.069	1.081	1.079	<b>1.078</b>	<b>14</b>
15	A07008-4T	1.087	1.087	<b>1.087</b>	<b>4</b>	1.094	1.077	1.078	1.088	<b>1.085</b>	<b>6</b>
16	A07103-1T	1.088	1.084	<b>1.086</b>	<b>5</b>	1.088	1.074	1.085	1.083	<b>1.082</b>	<b>11</b>
17	A08014-11TE	1.080	1.079	<b>1.080</b>	<b>15</b>	1.079	1.066	1.082	1.083	<b>1.078</b>	<b>15</b>
18	A08014-9TE	1.078	1.076	<b>1.077</b>	<b>19</b>	1.076	1.064	1.070	1.077	<b>1.072</b>	<b>18</b>
19	AO03123-2	1.081	1.078	<b>1.080</b>	<b>14</b>	1.084	1.077	1.087	1.086	<b>1.083</b>	<b>8</b>
20	AO06191-1	1.091	1.084	<b>1.087</b>	<b>3</b>	1.090	1.077	1.097	1.083	<b>1.087</b>	<b>3</b>
21	AOR06070-1KF	1.090	1.096	<b>1.093</b>	<b>2</b>	1.093	1.085	1.095	1.093	<b>1.091</b>	<b>1</b>
22	COA05149-2	1.073	1.074	<b>1.074</b>	<b>21</b>	1.073	1.059	1.072	1.076	<b>1.070</b>	<b>19</b>
23	OR08014-4	1.084	1.082	<b>1.083</b>	<b>8</b>	1.084	1.079	1.083	1.086	<b>1.083</b>	<b>9</b>
<b>Location Means</b>		<b>1.082</b>	<b>1.081</b>	<b>1.081</b>		<b>1.084</b>	<b>1.073</b>	<b>1.083</b>	<b>1.082</b>	<b>1.081</b>	

## 2014 TRI-STATE RUSSET POTATO VARIETY TRIAL

TABLE 9: Average Tuber Size, and Tuber Shape

No. Clone	Average Tuber Size (oz)							Tuber Shape (Length/Width Ratio)						
	WA E	ID E	ID L	OR KF	OR Herm	WA L	Means Late only	ID E	WA E	ID L	OR Herm	OR KF*	WA L	Entry Means
1 Ranger Russet	8.2	8.2	9.1	7.5	9.5	9.1	<b>8.8</b>	2.43	1.81	2.29	1.84	0.90	1.89	<b>2.05</b>
1 Russet Burbank	5.4	5.4	6.7	5.6	8.3	9.4	<b>7.5</b>	2.11	1.70	1.81	1.81	0.86	1.90	<b>1.87</b>
2 Russet Norkotah	5.7	5.7	5.6	6.6	7.1	7.6	<b>6.7</b>	1.93	1.80	1.88	1.85	0.90	NA	<b>1.86</b>
3* Shepody	5.6	5.6						1.94	1.61					<b>1.77</b>
4* A0073-2	6.4	6.4	7.9	6.1	7.3	8.1	<b>7.3</b>	1.76	1.56	1.76	1.62	0.83	1.68	<b>1.68</b>
5 A03141-6	7.7	7.7	8.6	9.1	13.1	13.3	<b>11.1</b>	1.71	1.57	1.90	1.69	0.86	1.47	<b>1.67</b>
6 A05084-11	6.4	6.4						1.80	1.62					<b>1.71</b>
*7 A06014-14TE	5.2	5.2	5.1	6.2	8.1	8.8	<b>7.0</b>	2.05	1.55	1.83	1.61	0.85	1.52	<b>1.71</b>
8 A06020-8	5.2	5.2	6.1	5.1	7.5	7.1	<b>6.4</b>	2.00	1.76	1.90	1.70	0.86	1.70	<b>1.81</b>
9 A06029-4T	5.0	5.0						1.19	1.51					<b>1.35</b>
10* A06096-2	6.7	6.7	9.2	5.8	7.7	6.4	<b>7.3</b>	2.23	1.69	1.93	1.97	0.87	1.71	<b>1.90</b>
11 A06408-99LB	6.7	6.7	7.0	6.0	8.0	8.0	<b>7.2</b>	1.65	1.47	1.59	1.40	0.84	1.31	<b>1.49</b>
12 A06862-18VR	6.2	6.2	7.8	8.0	9.4	8.7	<b>8.5</b>	1.61	1.42	1.58	1.42	0.87	1.37	<b>1.48</b>
13 A06914-3CR	6.2	6.2	7.0	5.5	7.6	7.9	<b>7.0</b>	2.03	1.52	1.91	1.60	0.87	1.43	<b>1.70</b>
14 A07008-4T	6.4	6.4	6.9	6.7	8.0	8.1	<b>7.4</b>	2.24	1.72	2.07	1.93	0.88	1.86	<b>1.97</b>
15 A07103-1T	7.3	7.3	9.2	8.1	9.0	9.4	<b>8.9</b>	1.70	1.48	1.57	1.46	0.89	1.41	<b>1.52</b>
16 A08014-11TE	4.5	4.5	5.0	4.4	7.2	7.0	<b>5.9</b>	1.89	1.76	1.81	1.54	0.88	1.67	<b>1.74</b>
17 A08014-9TE	6.8	6.8	6.4	8.0	8.6	8.6	<b>7.9</b>	1.61	1.45	1.57	1.38	0.85	1.41	<b>1.48</b>
18 A003123-2	5.0	5.0	6.7	6.7	8.9	8.3	<b>7.7</b>	1.99	1.82	2.07	1.78	0.85	1.90	<b>1.91</b>
19 A006191-1	6.1	6.1	6.7	8.2	10.6	11.0	<b>9.1</b>	1.99	1.70	1.90	1.66	0.86	1.63	<b>1.77</b>
20 AOR06070-1KF	6.4	6.4	7.4	6.7	9.7	10.0	<b>8.5</b>	1.77	1.46	1.85	1.66	0.86	1.60	<b>1.67</b>
21 COA05149-2	6.4	6.4	6.7	7.7	10.4	10.5	<b>8.8</b>	1.64	1.45	1.57	1.34	0.88	1.49	<b>1.50</b>
22 OR08014-4	5.3	5.3	6.3	7.0	9.7	9.2	<b>8.1</b>	1.73	1.48	1.70	1.64	1.70	1.52	<b>1.61</b>
<b>Location Means</b>	<b>6.1</b>	<b>6.1</b>	<b>7.1</b>	<b>6.7</b>	<b>8.8</b>	<b>8.8</b>	<b>7.9</b>	<b>1.87</b>	<b>1.60</b>	<b>1.82</b>	<b>1.64</b>	<b>0.91</b>	<b>1.60</b>	<b>1.71</b>
<b>* Not included in means</b>														

TABLE 10: 2014 Tri-State Potato Variety Trial - TUBER DISCRIPTORS

No. Clone	Tuber Uniformity <sup>1</sup>					Shatter <sup>1</sup>	Skin Appearance <sup>1</sup>		Greening <sup>1</sup>				
	WA E	OR Herm	OR KF	WA L	Entry Means	OR Herm	WA E	WA L	WA E	OR Herm	OR KF	WA L	Entry Means
1 Ranger Russet	3.0	3.3	3.1	2.7	<b>3.0</b>	4.8	3.7	3.0	5.0	4.6	3.8	4.7	<b>4.5</b>
2 Russet Burbank	2.8	3.0	2.9	2.0	<b>2.7</b>	4.6	3.3	3.0	4.3	4.9	4.5	4.0	<b>4.4</b>
3* Russet Norkotah	3.5	4.0	3.5	3.5	<b>3.6</b>	4.9	3.7	3.5	4.7	5.0	4.3	4.8	<b>4.7</b>
4* Shepody	1.0				<b>1.0</b>		1.8		5.0				<b>5.0</b>
5 A0073-2	1.7	3.9	3.9	2.4	<b>2.9</b>	3.9	3.0	3.0	5.0	4.1	4.3	4.0	<b>4.3</b>
6 A03141-6	1.3	3.6	2.9	2.0	<b>2.5</b>	4.5	3.0	2.0	5.0	4.5	3.8	4.3	<b>4.4</b>
*7 A05084-11	3.7				<b>3.7</b>		3.0		4.7				<b>4.7</b>
8 A06014-14TE	3.3	2.8	3.5	2.4	<b>3.0</b>	3.8	3.7	4.0	5.0	4.4	4.0	4.0	<b>4.3</b>
9 A06020-8	3.0	3.5	3.5	2.0	<b>3.0</b>	4.3	3.0	1.6	5.0	5.0	3.5	4.0	<b>4.4</b>
10* A06029-4T	3.0				<b>3.0</b>		3.0		5.0				<b>5.0</b>
11 A06096-2	2.8	1.8	3.4	1.8	<b>2.4</b>	4.1	2.0	2.0	5.0	4.3	3.8	4.3	<b>4.3</b>
12 A06408-99LB	2.3	3.8	3.8	3.0	<b>3.2</b>	4.3	2.0	2.9	5.0	4.8	4.1	4.0	<b>4.5</b>
13 A06862-18VR	2.7	3.4	.	3.0	<b>3.0</b>	2.5	2.0	2.0	5.0	4.1	3.5	4.3	<b>4.2</b>
14 A06914-3CR	1.7	3.1	3.4	2.3	<b>2.6</b>	4.8	1.5	2.0	4.7	4.1	3.8	4.0	<b>4.1</b>
15 A07008-4T	4.0	3.8	4.0	3.5	<b>3.8</b>	4.4	3.0	3.0	5.0	5.0	4.1	4.8	<b>4.7</b>
16 A07103-1T	2.8	3.5	3.6	2.4	<b>3.1</b>	4.5	2.7	3.0	5.0	4.6	3.9	4.8	<b>4.6</b>
17 A08014-11TE	4.0	3.5	.	3.3	<b>3.6</b>	3.4	3.7	3.0	5.0	5.0	4.5	4.5	<b>4.8</b>
18 A08014-9TE	2.5	3.8	3.1	3.3	<b>3.2</b>	4.6	3.0	3.0	5.0	4.8	4.5	4.8	<b>4.8</b>
19 AO03123-2	3.8	3.6	3.6	2.6	<b>3.4</b>	4.1	2.7	3.0	4.3	4.5	4.4	4.3	<b>4.4</b>
20 AO06191-1	4.0	3.6	4.5	4.0	<b>4.0</b>	4.1	4.7	4.0	5.0	4.5	4.1	4.5	<b>4.5</b>
21 AOR06070-1KF	3.0	3.6	3.1	2.5	<b>3.1</b>	3.6	3.0	2.9	5.0	4.0	3.6	3.8	<b>4.1</b>
22 COA05149-2	3.3	4.1	3.9	2.8	<b>3.5</b>	4.5	3.0	2.8	5.0	4.9	4.3	4.8	<b>4.7</b>
23 OR08014-4	2.3	3.4	3.3	2.3	<b>2.8</b>	3.5	3.0	3.0	5.0	4.1	3.5	4.0	<b>4.2</b>
<b>Location Means</b>	<b>2.9</b>	<b>3.4</b>	<b>3.5</b>	<b>2.7</b>	<b>3.2</b>	<b>4.2</b>	<b>2.9</b>	<b>2.8</b>	<b>4.9</b>	<b>4.6</b>	<b>4.0</b>	<b>4.3</b>	<b>4.5</b>

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

## 2014 TRI-STATE RUSSET POTATO VARIETY TRIAL

TABLE 11: 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	Early	Late	AB <sup>2</sup>	Early	Late
1 Ranger Russet	4.3	<b>4.2</b>	4.4	<b>4.8</b>	5.0	<b>4.7</b>	3.4	4.0	<b>4.5</b>
2 Russet Burbank	4.5	<b>4.0</b>	4.2	<b>3.6</b>	4.0	<b>3.9</b>	2.7	5.0	<b>4.6</b>
3* Russet Norkotah	5.0	<b>4.8</b>	4.9	<b>4.8</b>	5.0	<b>5.0</b>	3.5	4.8	<b>4.7</b>
4* Shepody	4.8		4.5		5.0		.	3.4	
5 A0073-2	5.0	<b>4.7</b>	5.0	<b>4.7</b>	4.0	<b>3.3</b>	2.3	4.4	<b>4.5</b>
6 A03141-6	4.6	<b>4.8</b>	4.7	<b>4.7</b>	5.0	<b>4.0</b>	3.0	2.8	<b>4.2</b>
*7 A05084-11	4.7		5.0		4.0		.	4.5	
8 A06014-14TE	5.0	<b>3.6</b>	4.9	<b>4.8</b>	2.0	<b>4.2</b>	2.7	4.4	<b>4.3</b>
9 A06020-8	5.0	<b>4.8</b>	4.9	<b>4.8</b>	4.0	<b>3.9</b>	3.2	<b>2.9</b>	<b>3.8</b>
10* A06029-4T	5.0		4.8		4.0		.	4.1	
11 A06096-2	5.0	<b>4.6</b>	4.8	<b>4.3</b>	4.0	<b>3.7</b>	3.2	4.0	<b>4.4</b>
12 A06408-99LB	4.8	<b>4.8</b>	5.0	<b>4.8</b>	4.0	<b>3.9</b>	2.9	4.0	<b>3.5</b>
13 A06862-18VR	4.5	<b>4.6</b>	5.0	<b>4.8</b>	<b>1.0</b>	<b>2.8</b>	<b>2.3</b>	3.3	<b>4.4</b>
14 A06914-3CR	4.7	<b>4.3</b>	4.7	<b>4.6</b>	5.0	<b>4.5</b>	3.3	4.5	<b>3.8</b>
15 A07008-4T	4.9	<b>4.6</b>	5.0	<b>5.0</b>	4.0	<b>4.2</b>	2.9	4.5	<b>4.8</b>
16 A07103-1T	4.6	<b>4.1</b>	4.9	<b>4.9</b>	4.0	<b>4.2</b>	2.9	4.3	<b>4.7</b>
17 A08014-11TE	4.9	<b>4.0</b>	5.0	<b>5.0</b>	2.0	<b>3.5</b>	2.8	5.0	<b>4.5</b>
18 A08014-9TE	5.0	<b>4.6</b>	5.0	<b>5.0</b>	4.0	<b>4.0</b>	3.5	4.8	<b>4.7</b>
19 A003123-2	5.0	<b>4.7</b>	4.9	<b>4.7</b>	4.0	<b>3.8</b>	2.7	4.4	<b>4.6</b>
20 A006191-1	4.8	<b>4.8</b>	5.0	<b>5.0</b>	4.0	<b>3.9</b>	3.3	4.9	<b>4.9</b>
21 AOR06070-1KF	4.8	<b>4.6</b>	4.9	<b>4.6</b>	<b>1.0</b>	<b>3.1</b>	<b>2.8</b>	3.5	<b>4.5</b>
22 COA05149-2	5.0	<b>5.0</b>	5.0	<b>4.9</b>	4.0	<b>4.0</b>	3.6	4.3	<b>4.8</b>
23 OR08014-4	4.5	<b>4.3</b>	4.8	<b>4.5</b>	3.0	<b>3.3</b>	2.9	4.5	<b>4.5</b>
<b>Means</b>	<b>4.8</b>	<b>4.5</b>	<b>4.8</b>	<b>4.7</b>	<b>3.7</b>	<b>3.9</b>	<b>3.0</b>	<b>4.2</b>	<b>4.4</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: INTERNAL DEFECTS - Hollow Heart &amp; 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 Net Necrosis/VD		Blackspot Bruise			
		Early	Late	Early	Late	Early	Late	Washington <sup>1</sup>		Herm <sup>2</sup>	AB <sup>3</sup>
1	Ranger Russet	0.0	<b>0.0</b>	0.0	<b>0.0</b>	-n/a-	<b>16.7</b>	5	3	43	2.0
2	Russet Burbank	<b>15.0</b>	<b>11.9</b>	0.0	<b>0.8</b>	-n/a-	<b>5.8</b>	4	5	30	2.6
3*	Russet Norkotah	0.0	<b>0.8</b>	0.0	<b>0.8</b>	-n/a-	<b>5.0</b>	5	5	18	2.9
4*	Shepody	4.2		0.0		-n/a-		4			.
5	A0073-2	0.0	<b>0.6</b>	0.0	<b>5.8</b>	-n/a-	<b>2.5</b>	5	4	35	2.0
6	A03141-6	2.5	<b>3.8</b>	0.0	<b>0.0</b>	-n/a-	<b>21.7</b>	4	4	23	3.1
*7	A05084-11	2.5		0.0		-n/a-		4			.
8	A06014-14TE	0.0	<b>1.3</b>	0.0	<b>0.0</b>	-n/a-	<b>7.5</b>	5	5	10	1.9
9	A06020-8	10.0	<b>4.6</b>	0.0	<b>0.0</b>	-n/a-	<b>18.3</b>	3	3	28	2.6
10*	A06029-4T	1.3		3.3		-n/a-		4	4		.
11	A06096-2	0.0	<b>0.0</b>	0.0	<b>0.8</b>	-n/a-	<b>3.3</b>	4		13	3.0
12	A06408-99LB	0.0	<b>0.7</b>	0.0	<b>30.2</b>	-n/a-	<b>5.0</b>	3	4	5	2.9
13	A06862-18VR	4.2	<b>3.8</b>	0.0	<b>4.2</b>	-n/a-	<b>9.2</b>	4	4	15	1.6
14	A06914-3CR	1.3	<b>0.0</b>	0.0	<b>1.3</b>	-n/a-	<b>15.0</b>	4	5	20	2.4
15	A07008-4T	1.3	<b>0.0</b>	0.0	<b>0.0</b>	-n/a-	<b>15.8</b>	5	4	20	2.8
16	A07103-1T	1.3	<b>0.6</b>	0.0	<b>2.5</b>	-n/a-	<b>1.7</b>	5	5	15	3.8
17	A08014-11TE	<b>13.8</b>	<b>9.4</b>	0.0	<b>3.3</b>	-n/a-	<b>8.3</b>	5	5	13	1.6
18	A08014-9TE	5.0	<b>1.3</b>	0.0	<b>5.8</b>	-n/a-	<b>5.8</b>	5	5	8	2.2
19	AO03123-2	2.5	<b>7.6</b>	0.0	<b>0.0</b>	-n/a-	<b>6.7</b>	5	5	20	4.4
20	AO06191-1	3.8	<b>9.4</b>	0.0	<b>0.0</b>	-n/a-	<b>8.3</b>	5	4	<b>25</b>	<b>1.6</b>
21	AOR06070-1KF	<b>11.3</b>	<b>13.8</b>	0.0	<b>0.0</b>	-n/a-	<b>4.2</b>	4	5	28	2.6
22	COA05149-2	2.9	<b>3.3</b>	0.0	<b>1.7</b>	-n/a-	<b>17.5</b>	4	4	28	2.7
23	OR08014-4	<b>16.3</b>	<b>22.5</b>	0.0	<b>4.1</b>	-n/a-	<b>6.7</b>	4	3	20	2.7
<b>Means</b>		<b>4.3</b>	<b>4.8</b>	<b>0.1</b>	<b>3.1</b>		<b>9.3</b>	<b>4.3</b>	<b>4.3</b>	<b>20.6</b>	<b>2.6</b>

<sup>1</sup> Score 1-5, with 1=severe, 5=none.<sup>2</sup> Hermiston, Oregon is percentage of tuber showing blackspot bruising.<sup>3</sup> Aberdeen blackspot scores from an abrasive peel test [1-5(none)].

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TABLE 13: Solids, Dextrose and Sucrose, Protein, Vitamin C and Glycoalkaloids

- Tubers Grown at Aberdeen, Idaho

Clone	Solids Oven Dry (%)	Sugars		Protein (%DWB)	Vitamin C (mg/100g FWB)	Glycoalkaloids (mg/100gFWB)
		Dextrose (%FWB)	Sucrose (%FWB)			
1 Ranger Russet	23.5	0.04	0.23	5.69	29.6	3.9
2 Russet Burbank	18.4	0.10	0.16	5.53	17.4	2.9
3* Russet Norkotah	18.1	0.07	0.12	5.13	17.6	2.8
4* Shepody						
5 A0073-2	21.7	0.02	0.18	6.67	25.2	1.4
6 A03141-6	23.1	0.03	0.24	7.09	23.8	3.1
*7 A05084-11						
8 A06014-14TE	20.3	0.05	0.13	5.77	18.1	13.5
9 A06020-8	22.5	0.03	0.25	6.56	21.5	2.3
10* A06029-4T						
11 A06096-2	20.7	0.07	0.17	6.85	17.2	1.9
12 A06408-99LB	21.0	0.06	0.12	6.44	15.4	2.3
13 A06862-18VR	21.2	0.03	0.29	6.41	19.9	5.5
14 A06914-3CR	21.9	0.05	0.24	6.80	39.9	1.6
15 A07008-4T	22.2	0.03	0.20	6.95	20.6	2.4
16 A07103-1T	22.9	0.02	0.19	7.50	23.1	1.6
17 A08014-11TE	21.0	0.03	0.20	6.56	25.8	8.2
18 A08014-9TE	19.7	0.02	0.17	6.02	23.9	5.1
19 AO03123-2	21.0	0.02	0.25	7.33	17.0	3.2
20 AO06191-1	22.8	0.03	0.25	6.03	22.5	11.5
21 AOR06070-1KF	23.0	0.03	0.25	7.07	24.4	5.2
22 COA05149-2	19.4	0.00	0.12	6.48	24.5	3.2
23 OR08014-4	22.4	0.02	0.15	7.09	26.4	1.1
<b>Means</b>	<b>21.3</b>	<b>0.04</b>	<b>0.20</b>	<b>6.50</b>	<b>22.7</b>	<b>4.1</b>

FWB = fresh weight basis DWB = dry weight basis

Glycoalkaloids: The 2012 Lenape check from Aberdeen was 34.4 mg/100g

TABLE 14: French Fry Color (00-4.0(darkest)), and Percent Sugar Ends

No.	Clone	Fry 44/45 or 47 <sup>o</sup>					Fry 40 <sup>o</sup>					% Sugar Ends
		PhotoVolt		ID <sup>1</sup>	LWA <sup>2</sup>	Postharvest 3 state avg. <sup>3</sup>	All Entries Mean Rank	ID <sup>1</sup>	LWA <sup>2</sup>	Postharvest 3 state avg. <sup>3</sup>	Means	
		Stem	Bud									
1	Ranger Russet	38	40	0.6	2.0	1.0	<b>1.2</b>	<b>17</b>	3.3	3.0	2.3	<b>58</b>
2	Russet Burbank	38	41	1.1	3.0	3.0	<b>2.4</b>	<b>20</b>	4.0	4.0	4.0	<b>48</b>
3*	Russet Norkotah	43	34	1.0			<b>1.0</b>	<b>14</b>	4.0			<b>29</b>
4*	Shepody											
5	A0073-2	46	58	0.4	0.0	0.0	<b>0.1</b>	<b>3</b>	1.5	0.0	0.7	<b>27</b>
6	A03141-6	46	47	0.3	0.0	0.0	<b>0.1</b>	<b>1</b>	1.0	1.0	0.3	<b>21</b>
*7	A05084-11											
8	A06014-14TE	40	38	0.5	0.0	0.3	<b>0.3</b>	<b>7</b>	3.1	1.0	1.7	<b>34</b>
9	A06020-8	42	44	0.5	0.0	0.0	<b>0.2</b>	<b>4</b>	0.8	1.0	1.0	<b>38</b>
10*	A06029-4T											
11	A06096-2	37	38	0.5	1.0	1.3	<b>0.9</b>	<b>13</b>	3.4	2.0	2.7	<b>25</b>
12	A06408-99LB	39	34	0.8	0.0	0.3	<b>0.4</b>	<b>9</b>	2.4	1.0	1.7	<b>29</b>
13	A06862-18VR	44	39	0.6	1.0	1.0	<b>0.9</b>	<b>12</b>	2.0	2.0	1.7	<b>35</b>
14	A06914-3CR	46	43	0.6	0.0	0.0	<b>0.2</b>	<b>5</b>	2.9	1.0	1.3	<b>35</b>
15	A07008-4T	41	45	0.5	0.0	0.3	<b>0.3</b>	<b>8</b>	2.5	2.0	2.0	<b>25</b>
16	A07103-1T	39	50	0.4	3.0	2.0	<b>1.8</b>	<b>18</b>	2.3	3.0	2.7	<b>31</b>
17	A08014-11TE	34	41	1.4	2.0	2.0	<b>1.8</b>	<b>19</b>	4.0	4.0	3.7	<b>46</b>
18	A08014-9TE	42	29	1.1	1.0	1.0	<b>1.0</b>	<b>15</b>	4.0	2.0	2.7	<b>19</b>
19	AO03123-2	43	43	0.3	1.0	0.7	<b>0.7</b>	<b>10</b>	1.9	3.0	3.0	<b>21</b>
20	AO06191-1	44	43	0.6	1.0	1.7	<b>1.1</b>	<b>16</b>	2.5	3.0	3.3	<b>25</b>
21	AOR06070-1KF	40	42	0.3	0.0	0.0	<b>0.1</b>	<b>2</b>	0.7	1.0	1.3	<b>35</b>
22	COA05149-2	42	41	0.3	1.0	0.7	<b>0.7</b>	<b>10</b>	3.1	3.0	2.7	<b>19</b>
23	OR08014-4	46	45	0.4	0.0	0.3	<b>0.3</b>	<b>6</b>	1.4	2.0	1.3	<b>26</b>
<b>Location Means</b>		<b>41.6</b>	<b>41.6</b>	<b>0.6</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>		<b>2.5</b>		<b>2.1</b>	<b>31</b>

<sup>1</sup> Hermiston samples held for 60 days at 47°F<sup>2</sup> Samples held for 4 week cool down period - 7 weeks at storage temperature.<sup>2</sup> Washington samples held for 60 days at 44°F<sup>3</sup> Three state average processed at Washington - For complete postharvest results see <http://www.potatoes.wsu.edu/>



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TABLE 15: Merit Scores (1-5(best))

No.	Clone	Process Merit					Postharvest Merit ** 3 State Avg.	Early ID	Early WA	Fresh Merit				
		ID	OR	WA	MEANS	RANK				ID	Herm	WA	MEANS	RANK
1	Ranger Russet	3.5	3.0	2.7	<b>3.1</b>	<b>15</b>	<b>3.1</b>	2.8	2.6	2.3	2.0	1.4	<b>2.2</b>	<b>19</b>
2	Russet Burbank	3.0	3.0	2.0	<b>2.7</b>	<b>18</b>	<b>1.9</b>	2.0	2.3	1.8	2.0	1.6	<b>1.9</b>	<b>22</b>
3*	Russet Norkotah	2.0	3.0	NA	<b>2.5</b>	<b>19</b>		3.3	2.5	3.6	3.5	2.6	<b>3.1</b>	<b>3</b>
4*	Shepody							2.0	2.2				<b>2.1</b>	<b>20</b>
5	A0073-2	4.0	3.0	4.4	<b>3.8</b>	<b>4</b>	<b>4.3</b>	3.0	0.6	2.8	2.0	1.1	<b>1.9</b>	<b>23</b>
6	A03141-6	3.7	3.0	4.3	<b>3.7</b>	<b>6</b>	<b>4.4</b>	2.8	2.2	3.3	2.0	1.4	<b>2.3</b>	<b>17</b>
*7	A05084-11							3.5	2.1				<b>2.8</b>	<b>5</b>
8	A06014-14TE	3.5	3.0	3.5	<b>3.3</b>	<b>12</b>	<b>3.5</b>	3.0	2.0	2.8	3.0	1.4	<b>2.4</b>	<b>12</b>
9	A06020-8	3.5	3.0	4.1	<b>3.5</b>	<b>7</b>	<b>4.1</b>	2.8	0.6	3.0	3.0	0.6	<b>2.0</b>	<b>21</b>
10*	A06029-4T							3.0	2.8				<b>2.9</b>	<b>4</b>
11	A06096-2	5.0	2.0	3.4	<b>3.5</b>	<b>8</b>	<b>3.0</b>	3.0	1.4	3.5	2.0	1.9	<b>2.3</b>	<b>16</b>
12	A06408-99LB	4.5	3.0	4.1	<b>3.9</b>	<b>2</b>	<b>3.6</b>	3.3	1.4	2.8	3.5	1.8	<b>2.5</b>	<b>10</b>
13	A06862-18VR	4.5	2.0	3.7	<b>3.4</b>	<b>10</b>	<b>3.5</b>	2.9	1.0	3.0	3.0	1.6	<b>2.3</b>	<b>18</b>
14	A06914-3CR	4.0	3.0	4.0	<b>3.7</b>	<b>5</b>	<b>3.7</b>	3.3	1.4	3.5	4.0	1.4	<b>2.7</b>	<b>7</b>
15	A07008-4T	4.5	4.0	3.9	<b>4.1</b>	<b>1</b>	<b>3.7</b>	4.4	1.9	4.5	4.0	2.5	<b>3.5</b>	<b>1</b>
16	A07103-1T	4.0	3.0	2.8	<b>3.3</b>	<b>13</b>	<b>3.0</b>	3.0	1.5	3.3	3.0	2.3	<b>2.6</b>	<b>9</b>
17	A08014-11TE	1.0	2.0	2.7	<b>1.9</b>	<b>20</b>	<b>2.6</b>	3.3	1.4	3.5	3.0	1.0	<b>2.4</b>	<b>13</b>
18	A08014-9TE	2.0	3.0	3.2	<b>2.7</b>	<b>17</b>	<b>3.1</b>	3.8	1.8	4.0	3.0	1.3	<b>2.8</b>	<b>6</b>
19	AO03123-2	5.0	3.0	3.5	<b>3.8</b>	<b>3</b>	<b>3.4</b>	2.6	2.0	3.5	4.0	1.1	<b>2.6</b>	<b>8</b>
20	AO06191-1	4.0	3.0	3.1	<b>3.4</b>	<b>11</b>	<b>3.1</b>	3.7	4.0	4.0	3.0	1.5	<b>3.2</b>	<b>2</b>
21	AOR06070-1KF	3.5	3.0	3.8	<b>3.4</b>	<b>9</b>	<b>3.9</b>	3.8	1.3	3.3	3.0	1.4	<b>2.5</b>	<b>11</b>
22	COA05149-2	3.5	2.0	3.4	<b>3.0</b>	<b>16</b>	<b>3.3</b>	3.5	1.4	3.0	3.0	1.0	<b>2.4</b>	<b>15</b>
23	OR08014-4	3.5	2.0	4.0	<b>3.2</b>	<b>14</b>	<b>3.8</b>	3.0	1.5	3.0	3.0	1.6	<b>2.4</b>	<b>14</b>
<b>Location Means</b>		<b>3.6</b>		<b>3.5</b>	<b>3.3</b>		<b>3.4</b>	<b>3.1</b>	<b>1.8</b>	<b>3.2</b>		<b>1.5</b>	<b>2.5</b>	

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

TABLE 12: 2014 Tri-State Potato Variety Trial - DISEASE EVALUATIONS

No. Clone	Vert. Wilt/ Early Dying		Early Blight					Late Blight CORV <sup>2</sup>			Common Scab		% Net Necrosis/ vasc. discoloration <sup>1</sup>		Pecto- bacterium Soft Rot <sup>1</sup>	Metr.
	AB <sup>1</sup>		AB <sup>1</sup>		Foliar (0-9)*	Incidence (%)	Serious Defect	Foliar		Tuber %	AB <sup>1</sup>		AB <sup>1</sup>		AB 0-5	Reaction
	(0-9)*	AUDPC	HERM (0-9)*	AUDPC				0-9	AUDPC		% Serious	Incidence	Defect	Incidence		
1 Ranger Russet	7.3	653	4.0	7.3	583	71	16	9	1383	75	7.5	5.4	74	15	4.3	R
2 Russet Burbank	8.7	893	6.3	8.0	677	24	0	9	1396	18	3.2	0.0	52	3	4.9	NA
3 Russet Norkotah	9.0	1225	7.5	9.0	1033	10	0	9	1400	43	0.0	0.0	67	3	3.2	NA
4 Shepody	na	na	na	na	na	na	na	9	1393	10	na	na	na	na	na	VS
5 A0073-2	7.3	490	4.5	7.7	469	18	0	9	1396	13	2.0	2.0	69	35	4.6	MR
6 A03141-6	7.7	671	4.0	8.3	683	38	4	9	1358	30	9.6	5.8	74	15	2.5	S
7 A05084-11	8.7	986	NA	8.7	823	51	28	9	1398	35	14.6	11.4	23	0	3.0	MS
8 A06014-14TE	8.3	910	7.8	8.0	642	82	25	9	1400	38	1.9	0.0	68	6	2.5	MS
9 A06020-8	6.7	426	5.0	7.0	496	6	0	9	1386	38	7.8	6.1	69	8	2.1	MS
10 A06029-4T	7.7	753	NA	7.0	399	3	0	9	1386	8	21.1	3.9	57	27	3.3	R
11 A06096-2	7.0	578	4.0	7.3	432	100	55	9	1386	0	14.4	7.1	60	0	3.8	R
12 A06408-99LB	7.7	566	6.5	7.3	525	20	0	8	1285	3	17.6	12.8	47	0	4.6	R
13 A06862-18VR	7.0	473	2.8	7.3	607	43	0	9	1365	3	21.2	12.8	42	0	4.2	MS
14 A06914-3CR	8.0	677	6.0	7.7	601	43	3	9	1350	30	6.1	3.0	52	0	0.8	R
15 A07008-4T	8.7	852	7.5	8.3	776	84	2	9	1396	33	2.1	0.0	53	6	3.1	R
16 A07103-1T	7.3	618	5.0	7.0	496	45	0	9	1386	5	3.0	0.0	45	0	4.9	R
17 A08014-11TE	8.3	998	5.8	8.0	823	43	0	9	1398	40	7.6	0.0	42	0	1.4	R
18 A08014-9TE	9.0	1155	7.5	9.0	1097	26	0	9	1400	34	5.6	3.0	52	13	2.5	R
19 AO03123-2	6.7	508	5.5	8.0	688	32	0	NA	NA	na	26.6	11.9	58	3	3.6	R
20 AO06191-1	8.3	858	6.3	8.0	677	7	0	9	1390	13	6.8	0.0	51	0	3.1	MR
21 AOR06070-1KF	6.7	404	4.3	7.3	343	26	0	9	1386	5	6.7	0.9	41	10	2.2	R
22 COA05149-2	9.0	1120	6.3	8.3	840	23	1	9	1398	13	11.8	7.7	41	43	3.0	R
23 OR08014-4	7.7	683	3.8	8.0	642	36	0	9	1372	25	0.0	0.0	66	2	4.9	R
<b>MEANS</b>	<b>7.9</b>	<b>750</b>	<b>5.5</b>	<b>7.8</b>	<b>652.3</b>	<b>37.8</b>	<b>6.1</b>	<b>8.9</b>	<b>1382</b>	<b>23.0</b>	<b>9.0</b>	<b>4.3</b>	<b>52.3</b>	<b>8.6</b>	<b>3.3</b>	
<b>LSD @ .05</b>	<b>1.1</b>			<b>0.9</b>		<b>24.0</b>	<b>12.0</b>	<b>0.5</b>	<b>53.9</b>		<b>17.0</b>	<b>9.0</b>	<b>24.0</b>	<b>17.0</b>	<b>2.5</b>	

\* days after planting (121 at Aberdeen, 120 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> Measured at Aberdeen, ID. VR=very resistant, R=Resistant, MR=Moderately resistant, MS=moderately susceptible, S=susceptible VS=very susceptible

## 2014 TRI-STATE RUSSET POTATO VARIETY TRIAL

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TABLE 17: Summary

Clone	Year in Trial	Use	Early Yield	Late Yield	US#1's		Tuber Size	Specific Gravity	Fry Color	Merit F	Score P	Comments	Dis
1 Ranger	Ck	Dual	437	559	421	75	8.8	1.083	1.2	2.2	3.1		
2 R. Burbank	Ck	Dual	398	525	348	63	7.5	1.077	2.4	1.9	2.7		
3* Norkotah	Ck	Fresh	389	435	341	77	6.7	1.067	1.0	3.1	2.5		
4* Shepody	Ck	proc	366							2.1			
5 A0073-2	3	Dual	377	511	410	80	7.3	1.088	0.1	1.9	3.8		
6 A03141-6	2	Dual	452	671	534	78	11.1	1.085	0.1	2.3	3.7	Net nec.	
*7 A05084-11	2	Dual	335						0.0	2.8	0.0		
8 A06014-14TE	1	Dual	402	471	326	68	7.0	1.077	0.3	2.4	3.3	high TGA	
9 A06020-8	1	Dual	415	481	359	74	6.4	1.083	0.2	2.0	3.5		
10* A06029-4T	2	Dual	383						0.0	2.9	0.0		
11 A06096-2	1	Dual	540	787	528	66	7.3	1.081	0.9	2.3	3.5	early sprouting	
12 A06408-99LB	1	Dual	556	620	544	79	7.2	1.082	0.4	2.5	3.9	IBS,	
13 A06862-18VR	1	Dual	412	684	558	81	8.5	1.085	0.9	2.3	3.4		
14 A06914-3CR	1	Dual	518	617	485	78	7.0	1.078	0.2	2.7	3.7	high Vit C	
15 A07008-4T	1	Dual	430	544	446	82	7.4	1.085	0.3	3.5	4.1		
16 A07103-1T	1	Dual	455	557	467	83	8.9	1.082	1.8	2.6	3.3		
17 A08014-11TE	1	Dual	398	465	327	69	5.9	1.078	1.8	2.4	1.9	HH	
18 A08014-9TE	1	Dual	431	492	421	84	7.9	1.072	1.0	2.8	2.7		
19 AO03123-2	2	Dual	351	513	423	81	7.7	1.083	0.7	2.6	3.8		
20 AO06191-1	1	Dual	392	458	406	88	9.1	1.087	1.1	3.2	3.4	high TGA, HH	
21 AOR06070-1KF	2	Dual	469	611	423	76	8.5	1.091	0.1	2.5	3.4		
22 COA05149-2	1	Dual	495	479	422	86	8.8	1.070	0.7	2.4	3.0		
23 OR08014-4	1	Dual	463	584	443	74	8.1	1.083	0.3	2.4	3.2	HH	

## 2014 TRI-STATE RUSSET POTATO VARIETY TRIAL

TABLE 18: WASHINGTON STATE POSTHARVEST EVALUATIONS - Early Harvest

	Clone	Comments from Washington Early Trial	Carton Yield		Process Yield	
			% of Total Yield	Process Yield Tons/A	US 1 (7-18 oz)	
					% of Total	Tons/A
					US 1s and 2s > 6oz	
					% of Total	Tons/A
1	Ranger Russet	Large size range, shape somewhat irregular, deep eyes	66	15.3	78.5	18.3
2	Russet Burbank	Some irregular shapes, knobs, deep eyes, a bit flat	57	13.8	73.2	17.9
3*	Russet Norkotah	Skinny, some points, eyes a bit deep, somewhat tpy	49	12.5	61.3	15.7
4*	Shepody	Large, flat, irregular shapes, pre-scab	63	17.3	79.5	21.7
5	A0073-2	Short/round/flat/rough, irregular shapes - DISCARD	45	8.6	63.4	11.9
6	A03141-6	Irregular size and shapes, bad pre-scab - processing only	72	19.9	86.6	24.0
*7	A05084-11	Plump, short, somewhat tpy, low tuber number	71	15.2	81.5	17.6
8	A06014-14TE	Nice skin, short, deep eyes, shape a bit irregular	57	14.3	72.4	18.1
9	A06020-8	Smaller, many irregular shapes, 100% pre-scab	40	8.2	55.8	11.4
10*	A06029-4T	Blocky, plump, short, spotty russetting, pre-scab	71	16.3	83.1	19.0
11	A06096-2	Small, round, some points, many pears, pre-scab	37	10.6	50.9	14.6
12	A06408-99LB	Irregular shapes, some scab - DISCARD	53	16.0	67.5	20.5
13	A06862-18VR	Highly variable shapes, spotty russetting, pre-scab	55	13.1	64.3	15.3
14	A06914-3CR	Highly variable shapes, light/buff skin	43	12.6	61.6	18.2
15	A07008-4T	Small, tpy	33	7.7	49.9	11.6
16	A07103-1T	Pear shaped, light skin, spotty russetting	58	12.9	76.6	17.1
17	A08014-11TE	Nice skin, some small, short, tpy	31	7.0	45.6	10.3
*18	A08014-9TE	Short, plump, round, nice skin	65	17.7	75.5	20.6
19	AO03123-2	Small, short, light skin, spotty russetting, bad Rhizoctonia	48	10.2	60.3	13.0
20	AO06191-1	Dark skin, poor skin set, tpy	69	15.9	81.9	18.8
21	AOR06070-1KF	Bad skin - spotty russetting, pre-scab; processing only	55	13.7	77.6	19.3
22	COA05149-2	Large, flat, oval	55	13.6	86.4	21.4
23	OR08014-4	Nonuniform shape, plump, flat	55	15.5	70.7	19.9

## 2014 TRI-STATE RUSSET POTATO VARIETY TRIAL

TABLE 19: WASHINGTON STATE POSTHARVEST EVALUATIONS - Late Harvest

	Clone	Carton Yield		Postharvest Evaluations											
		% of Total Yield	Process Yield Tons/A	48°F				44°F				40°F			
				WA	ID	OR	Means	WA	ID	OR	Means	WA	ID	OR	Means
1	Ranger Russet	62	19	1	1	0	0.7	2	1	0	1.0	3	2	2	2.3
2	Russet Burbank	53	19	3	3	3	3.0	3	3	3	3.0	4	4	4	4.0
3	Russet Norkotah	58	18												
5	A0073-2	56	16	0	1	0	0.3	0	0	0	0.0	0	1	1	0.7
6	A03141-6	48	18	0	0	0	0.0	0	0	0	0.0	1	0	0	0.3
8	A06014-14TE	59	18	1	1	0	0.7	0	0	1	0.3	1	2	2	1.7
9	A06020-8	60	16	0	0	0	0.0	0	0	0	0.0	1	1	1	1.0
11	A06096-2	48	22	1	2	2	1.7	1	1	2	1.3	2	2	4	2.7
12	A06408-99LB	59	23	0	1	0	0.3	0	1	0	0.3	1	2	2	1.7
13	A06862-18VR	64	22	0	1	0	0.3	1	1	1	1.0	2	2	1	1.7
14	A06914-3CR	60	19	0	0	0	0.0	0	0	0	0.0	1	1	2	1.3
15	A07008-4T	69	20	0	0	0	0.0	0	0	1	0.3	2	1	3	2.0
16	A07103-1T	70	24	2	2	2	2.0	3	1	2	2.0	3	2	3	2.7
17	A08014-11TE	56	14	1	2	1	1.3	2	1	3	2.0	4	3	4	3.7
18	A08014-9TE	68	21	1	0	1	0.7	1	0	2	1.0	2	2	4	2.7
19	AO03123-2	64	18	1	1	0	0.7	1	0	1	0.7	3	3	3	3.0
20	AO06191-1	61	16	2	2	1	1.7	1	2	2	1.7	3	3	4	3.3
21	AOR06070-1KF	57	20	0	0	0	0.0	0	0	0	0.0	1	1	2	1.3
22	COA05149-2	59	17	0	0	0	0.0	1	0	1	0.7	3	2	3	2.7
23	OR08014-4	56	20	0	0	0	0.0	0	0	1	0.3	2	0	2	1.3

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

## 2014 TRI-STATE RUSSET POTATO VARIETY TRIAL

TABLE 20: State Comments - Late Harvest

Idaho		
1	Ranger Russet	GC, JE, curved
2	Russet Burbank	jelly ends, rot
3*	Russet Norkotah	few, small
5	A0073-2	misshaped
6	A03141-6	folds, misshaped
8	A06014-14TE	curved, shatter
9	A06020-8	poor skin, crooks
11	A06096-2	long, twins, sprouting
12	A06408-99LB	blocky, shattered
13	A06862-18VR	shatter, ats
14	A06914-3CR	long, white, deepeyes, rot
15	A07008-4T	small but nice
16	A07103-1T	blocky, big, GC
17	A08014-11TE	nice size and shape
18	A08014-9TE	nice size and shape
19	AO03123-2	long, ats, lumps, poor skin
20	AO06191-1	nice size and shape
21	AOR06070-1KF	lumps, skin checking
22	COA05149-2	short, flat
23	OR08014-4	bulging eyes poor russet

Late Washington
Long, skinny, shape somewhat irregular
Irregular shape, good length, some knobs, mostly typy
Large, good shape and length, some Rhizoctonia
Nonuniform shape, some small, short, plump; scab
Large, short, irregular shape, looks a bit like Shepody
Dark skin, blocky, short, irregular shape
Ugly skin, bumpy, plump, short, some Rhizoc and scab
Variable shapes, many small, pears, points - DISCARD
Short, too round, powdery scab - DISCARD
Short, round, deep eyes
Short, round, bumpy, irregular, deep eyes - high eyebrows
Good length, some curves and points, mostly typy
Large, inconsistent shape and size
Mostly blocky and typy, many smalls
Too short, almost round - DISCARD
Irregular shapes, deep eyes, bumpy tubers, Rhizoctonia
Pretty, long, typy, dark russet, low tuber set
Large, many skin defects, shatter, Rhizoctonia
Large, blocky, plump, flat - irregular shapes
Large, many short, irregular shapes, Rhizoctonia

## 2014 TRI-STATE RUSSET POTATO VARIETY TRIAL

TABLE 21: Late Harvest Additional Date - Klamath Falls and Hermiston, OR

		% Impact Bruise	% Stem End Browning	Klamath Falls, OR comments	Hermiston, OR comments
1	Ranger Russet	8	12.5	pointy, long, crooky, skinny, blotchy skin	Curvy x4, knobs x2, rot x1
2	Russet Burbank	8	20.0	pointy, crooky, misshaped, knobs	knobs x2, irr x4, bottle x2, GC x1
3*	Russet Norkotah	5	12.5	pointy, crooky, not bad, blotchy skin	Typy x4, pty x1
5	A0073-2	18	15.0	not bad, smal, rhizoc, no yield, flat, short, dents	Pink blush x3, greening x1, rhizoc x1, twins x1
6	A03141-6	0	17.5	long, large, M.S, not fresh, dents, pears, pointy stem end, poor	Patchy russet x3, blocky, pear
8	A06014-14TE	0	17.5	long, GC,to skinny, MS, not fresh	GC x4, SB x1, scab x2
9	A06020-8	18	20.0	lent scaring, drop, irr shape, pointy, hooks, process?	Patchy russet x2, irr x2, sticky stolon x2
11	A06096-2	5	17.5	M.S long, skinny, pointy, BE sprouts, rhizoc, not fresh, small	irr x4, pink blush x2, knobs x4, GC x1
12	A06408-99LB	15	10.0	small, IB, hard bite, not fresh, to round, Fusarium. Thumbnail cracks, typy, process only	flaky russet x4, FBE x2, sticky x2
13	A06862-18VR	20	22.5	Shatter bruise, BE sprouts, UGLY, FBE, growth cracks TNC, impact bruise	spr x4, skinning x2, SB x4
14	A06914-3CR	3	30.0	growth cracks, dented, irregular shape, green, not fresh, lenticel scaring	typy x2, knobs x1, rot x1, rhizoc x1
15	A07008-4T	3	25.0	dark, long, typy, deep eyes, crooky, fair some MS	lenticels x4, irr x1, curvy x2
16	A07103-1T	0	7.5	dents, misshaped, pears, big, blocky, blotchy skin	Spr x4, round x2, irr x1, FBE x2
17	A08014-11TE	8	17.5	GC. shatter, ugly, small, no yield, TNC	GC x4, scab x2, SB x4, alligator x1
18	A08014-9TE	8	30.0	pears, growth cracks, dented, BE sprouts,plumpy, round, not fresh	flat, sprouting x 1, irr x2
19	AO03123-2	5	30.0	pointy, long, blotchy skin, process only,typy, littly lumpy, not fresh	rhizoc x2, rot x1
20	AO06191-1	3	7.5	dark, typy nice, low set, fresh, keep, best of trial	Heavy russet, typy x4, rhizoc x1
21	AOR06070-1KF	3	25.0	pointy stem end, crooky, green, dents, no uniformity, pears, not bad	Pointy x4, bottle x1, SB x2,
22	COA05149-2	5	7.5	round, plumpy, dented, not fresh, large, blocky, flat	Flaky russet x2, spr x1, rot x1, Dehy?
23	OR08014-4	5	13.0	long, lenticel scaring, misshaped, Thumbnial cracks, not fresh, shatter bruised	GC x2, lenticels x2, alligator x1

category is Impact Bruise - percentage of tubers with TNC, Shatter, White-knot, BS, etc.