

2005 IDAHO CHIPPING POTATO VARIETY TRIAL - ABERDEEN, IDAHO.

Clone	Total Yield ----cwt/acre---	U.S. No. 1's					Culls & U.S. No.2	Specific Gravity	Hollow Heart/ <sup>1</sup> Brown Center	Blackspot <sup>2</sup> Bruise	Shatter <sup>3</sup> Bruise	Chip 40 <sup>4</sup> Color	Chip 50 <sup>4</sup> Color	Merit <sup>5</sup> Proc
		Yield	%	> 12 oz.	6 to 12 oz.	< 4 oz.								
ATLANTIC	377	291	77	4	44	20	2	1.093	8	3.4	3.1	4.0	1.8	3.0
CHIPETA	507	449	89	43	38	4	8	1.086	5	2.8	3.1	3.6	1.3	3.4
IVORY CRISP	360	247	69	1	38	31	1	1.093	0	2.8	2.8	3.2	1.0	3.2
A91814-5	586	421	72	6	43	19	9	1.100	0	2.8	3.1	2.6	1.3	3.6
B0766-3T	518	467	90	25	57	6	4	1.093	0	2.5	3.0	3.1	1.6	3.4
CO95051-7W	432	348	81	3	51	19	0	1.098	0	2.9	2.9	2.8	1.5	3.4
CO96141-4W	360	279	78	2	46	21	1	1.081	0	3.2	3.2	3.8	1.4	2.5
COA96141-2C	531	434	82	6	53	16	2	1.083	0	3.4	3.0	1.8	1.0	4.0
COA96142-3C	441	338	77	8	46	15	8	1.088	18	3.0	2.7	3.6	1.1	3.2
<b>Mean</b>	<b>457</b>	<b>364</b>	<b>79</b>	<b>11</b>	<b>46</b>	<b>17</b>	<b>4</b>	<b>1.091</b>	<b>3</b>	<b>3.0</b>	<b>3.0</b>	<b>3.2</b>	<b>1.3</b>	<b>3.3</b>
LSD (.05)	78	75						0.005		0.4	0.2	0.7	0.4	
LSD (.01)	106	101						0.007		0.5	0.3	0.9	0.6	

<sup>1</sup> Hollow heart/brown center was measured by cutting tubers >12 oz.

<sup>2</sup> Blackspot bruise measured using the abrasive peel method, 1-5 scale where 1=susceptible, 5=resistant.

<sup>3</sup> Shatter bruise measured using a 1-5 scale where 1=resistant, 5=susceptible.

<sup>4</sup> Snack Food Association Chip Color Chart with lower score indicating lighter color; potatoes stored at 40° or 50°F for 3 months.

<sup>5</sup> Processing Merit (1-5 scale 5=good) Preference score for a variety's potential to process.

2005 TRI-STATE POTATO VARIETY TRIAL - ABERDEEN, IDAHO.

Clone	Total Yield	U.S. No. 1's					Culls & U.S. No.2	Specific Gravity	Hollow Heart/ <sup>1</sup> Brown Center	Blackspot <sup>2</sup> Bruise	Fry 40 <sup>3</sup> Color	Fry 45 <sup>3</sup> Color	Merit <sup>4</sup>	
		Yield	%	> 12 oz.	6 to 12 oz.	< 4 oz.							F	P
---cwt/acre---		-----%-----					---%---							
RANGER RUSSET	557	430	77	16	51	12	11	1.083	0	2.1	3.8	1.1	3.8	3.5
RUSSET BURBANK	449	282	63	6	31	28	9	1.074	0	2.9	4.0	1.5	2.8	3.0
A96023-6	411	341	83	19	53	8	9	1.082	0	2.9	3.5	1.1	4.0	3.3
A96108-12	466	370	79	7	46	19	2	1.085	0	3.1	3.8	1.6	3.0	2.8
A97229-1	392	326	83	11	53	13	4	1.067	0	3.1	3.9	1.1	3.8	2.0
A97287-6	454	378	83	17	49	11	6	1.083	5	3.1	2.8	0.4	4.5	4.0
A98104-4	307	201	65	0	28	33	1	1.076	0	2.2	3.3	0.8	2.0	2.0
AO96141-3	529	386	73	9	47	19	7	1.087	18	3.3	3.3	1.0	3.3	3.5
AO98133-2	412	377	92	57	30	3	5	1.093	0	2.7	3.3	0.6	4.0	4.0
<b>Mean</b>	<b>442</b>	<b>343</b>	<b>78</b>	<b>16</b>	<b>43</b>	<b>16</b>	<b>6</b>	<b>1.081</b>	<b>4</b>	<b>3.5</b>	<b>1.0</b>	<b>1.3</b>	<b>3.4</b>	<b>3.1</b>
LSD (.05)	66	71								2.0	0.6	0.5		
LSD (.01)	89	95								2.7	0.8	0.7		

<sup>1</sup> Hollow heart/brown center was measured by cutting tubers >12 oz.

<sup>2</sup> Blackspot bruise measured using the abrasive peel method, 1-5 scale where 1=susceptible, 5=resistant.

<sup>3</sup> USDA fry grade score with lower score indicating lighter color; potatoes stored at 40° or 45°F.

<sup>4</sup> Merit Score (1-5 scale 5=good) Preference score for a variety's potential (F=fresh, P=processing)

2005 REGIONAL POTATO VARIETY TRIAL - ABERDEEN, IDAHO.

Clone	Total Yield ----cwt/acre---	U.S. No. 1's					Culls & U.S. No.2	Specific Gravity	Hollow Heart/ <sup>1</sup> Brown Center	Blackspot <sup>2</sup> Bruise	Fry 40 <sup>3</sup> Color	Fry 45 <sup>3</sup> Color	Merit <sup>4</sup>	
		Yield	%	> 12 oz.	6 to 12 oz.	< 4 oz.							F	P
RANGER RUSSET	509	415	82	17	52	9	1.084	0	1.8	3.3	0.9	3.3	3.8	
RUSSET BURBANK	394	255	65	4	34	28	1.073	0	2.8	3.8	0.9	3.3	3.0	
RUSSET NORKOTAH	301	215	71	4	42	27	1.072	8	2.1	4.0	1.2	2.8	2.0	
A92030-5	405	332	82	18	51	10	1.082	11	2.1	3.4	0.9	3.3	3.6	
A92294-6	605	426	70	14	45	10	1.096	0	2.3	2.5	0.5	1.8	3.3	
A93157-6LS	495	426	86	20	53	9	1.087	0	1.9	0.9	0.4	4.0	4.5	
A95109-1	480	427	89	43	40	4	1.077	5	2.7	3.9	1.2	4.3	3.8	
A95409-1	467	424	91	26	55	5	1.081	0	2.3	3.5	0.9	3.3	4.0	
A96095-3	391	318	81	23	49	9	1.071	0	2.0	3.8	0.6	3.0	3.2	
A96104-2	594	500	84	13	55	10	1.081	8	3.0	3.8	0.5	4.0	4.0	
AO96160-3	501	437	87	15	52	9	1.082	0	3.0	3.1	0.4	3.3	4.0	
AO96164-1	500	412	82	20	52	7	1.077	0	2.5	2.1	0.5	2.8	3.6	
AOA95154-1	474	435	92	39	47	5	1.079	3	2.2	3.6	0.8	4.0	3.5	
AOA95155-7	405	345	85	12	57	12	1.081	0	3.8	2.3	0.4	4.3	3.5	
ATX91137-1Ru	462	435	94	26	58	5	1.071	0	2.9	3.8	0.9	4.5	3.6	
CO94035-15RU	429	361	84	17	51	10	1.076	3	2.8	3.9	0.6	3.8	3.4	
CO95086-8RU	294	213	72	6	44	23	1.077	0	2.9	3.2	0.7	2.5	1.8	
CO95172-3RU	511	446	87	14	54	10	1.084	0	2.0	3.6	0.6	3.8	3.8	
MWTX2609-2Ru	526	467	89	24	52	6	1.075	0	2.0	4.0	1.8	2.5	2.5	
PA97B3-2	388	230	59	2	30	37	1.088	0	2.1	2.9	0.4	2.8	2.3	
TXA549-1Ru	463	389	84	26	41	12	1.082	5	1.7	3.4	0.5	3.0	3.2	
<b>Mean</b>	<b>457</b>	<b>377</b>	<b>82</b>	<b>18</b>	<b>48</b>	<b>12</b>	<b>1.080</b>	<b>2</b>	<b>2.4</b>	<b>3.3</b>	<b>0.7</b>	<b>3.3</b>	<b>3.4</b>	
LSD (.05)	52	60					0.004		0.3	0.5	0.4	0.9		
LSD (.01)	69	80					0.005		0.4	0.7	0.5	1.2		

<sup>1</sup> Hollow heart/brown center was measured by cutting tubers >12 oz.

<sup>2</sup> Blackspot bruise measured using the abrasive peel method, 1-5 scale where 1=susceptible, 5=resistant.

<sup>3</sup> USDA fry grade score with lower score indicating lighter color; potatoes stored at 40° or 45°F.

<sup>4</sup> Merit Score (1-5 scale 5=good) Preference score for a variety's potential (F=fresh, P=processing)

2005 REGIONAL POTATO VARIETY TRIAL - KIMBERLY, IDAHO.

Clone	Total Yield ---cwt/acre---	U.S. No. 1's					Culls & U.S. No.2	Specific Gravity	Hollow Heart/ <sup>1</sup> Brown Center	Blackspot <sup>2</sup> Bruise	Fry 40 <sup>3</sup> Color	Fry 45 <sup>3</sup> Color	Merit <sup>4</sup>	
		Yield	%	> 12 oz.	6 to 12 oz.	< 4 oz.							F	P
RANGER RUSSET	562	398	71	24	39	5	24	1.091	0	2.2	3.4	1.3	3.5	3.5
RUSSET BURBANK	603	377	63	24	30	6	31	1.089	3	2.4	3.8	1.4	2.0	3.3
RUSSET NORKOTAH	474	403	85	27	46	6	9	1.079	5	2.0	4.0	2.2	4.3	2.3
A92030-5	533	464	87	46	35	4	9	1.100	26	2.2	4.0	2.4	3.3	2.5
A92294-6	699	405	58	16	34	6	36	1.101	0	2.7	2.9	1.0	1.8	3.0
A93157-6LS	599	510	85	33	42	7	7	1.095	5	1.9	2.1	0.5	3.8	4.5
A95109-1	481	433	90	43	39	2	7	1.084	0	3.2	4.0	2.1	4.5	3.0
A95409-1	619	522	84	44	34	4	12	1.100	0	2.7	3.6	1.2	4.8	4.0
A96095-3	495	385	78	38	29	5	17	1.083	8	2.0	3.3	1.1	2.8	3.3
A96104-2	627	516	82	23	47	8	10	1.082	5	2.9	3.9	1.8	3.5	3.5
AO96160-3	567	486	86	19	50	10	5	1.096	0	2.9	3.4	0.9	4.0	3.7
AO96164-1	567	390	69	33	30	3	28	1.089	0	2.3	2.8	0.9	3.5	3.8
AOA95154-1	494	433	88	44	36	5	8	1.085	0	2.3	4.0	2.5	4.0	3.2
AOA95155-7	545	468	86	11	53	12	2	1.089	0	3.8	3.4	0.7	3.5	3.7
ATX91137-1Ru	588	545	93	48	38	4	4	1.078	0	3.1	3.9	1.6	4.5	3.6
CO94035-15RU	397	327	82	32	37	8	10	1.084	0	3.0	4.0	0.8	4.0	3.0
CO95086-8RU	389	287	74	8	42	18	8	1.090	0	2.8	3.1	0.6	2.5	3.2
CO95172-3RU	602	518	86	28	47	8	6	1.093	0	2.4	3.5	1.6	3.5	3.4
MWTX2609-2Ru	781	607	78	42	30	4	18	1.084	0	2.3	4.0	3.3	2.3	2.0
PA97B3-2	458	351	77	5	43	21	3	1.102	0	2.1	3.2	0.6	3.5	3.0
TXA549-1Ru	578	479	83	37	38	9	8	1.090	0	1.7	3.2	0.8	3.8	3.5
<b>Mean</b>	<b>555</b>	<b>443</b>	<b>80</b>	<b>30</b>	<b>39</b>	<b>7</b>	<b>12</b>	<b>1.090</b>	<b>2</b>	<b>2.5</b>	<b>3.5</b>	<b>1.4</b>	<b>3.5</b>	<b>3.3</b>
LSD (.05)	109	94						0.005		0.2	0.4	0.7	0.9	
LSD (.01)	144	124						0.007		0.3	0.5	1.0	1.2	

<sup>1</sup> Hollow heart/brown center was measured by cutting tubers >12 oz.

<sup>2</sup> Blackspot bruise measured using the abrasive peel method, 1-5 scale where 1=susceptible, 5=resistant.

<sup>3</sup> USDA fry grade score with lower score indicating lighter color; potatoes stored at 40° or 45°F.

<sup>4</sup> Merit Score (1-5 scale 5=good) Preference score for a variety's potential (F=fresh, P=processing)

2005 IDAHO POTATO VARIETY TRIAL - SHELLEY, IDAHO (DeVerle and Bart Wattenbarger Farm).  
Cooperation with William H. Bohl, Ph.D. Extension Educator-Potatoes

Clone	Total Yield ---cwt/acre---	U.S. No. 1's				Culls & U.S. No.2	Average Tuber Size oz.	Specific Gravity	Hollow Heart/ <sup>1</sup> Brown Center ---%---	Blackspot <sup>2</sup> Bruise	Fry 40 <sup>3</sup> Color	Fry 45 <sup>3</sup> Color	Merit <sup>4</sup>	
		Yield	%	> 12 oz.	6-12 oz.								F	P
RUSSET BURBANK	431	337	78	16	44	7	5.9	1.086	29	2.4	3.8	1.7	3.8	3.0
RUSSET NORKOTAH	387	318	82	25	41	6	6.9	1.074	0	2.5	3.8	2.3	4.5	2.5
WESTERN RUSSET	368	264	72	32	28	19	8.2	1.083	0	1.8	3.9	2.1	3.2	2.5
GEMSTAR	353	282	80	24	37	6	6.4	1.089	2	2.8	2.2	1.0	4.8	3.5
A92030-5	396	337	85	37	35	8	8.3	1.086	0	2.8	3.7	1.6	4.8	3.0
A9304-3	492	373	76	40	29	18	9.6	1.088	2	2.4	3.5	1.6	2.8	3.2
A93157-6LS	491	395	80	31	36	10	7.5	1.089	0	1.6	2.1	0.8	4.2	4.0
A95109-1	454	403	89	21	52	5	7.5	1.087	0	2.8	3.7	2.1	4.5	3.0
A95409-1	389	308	79	34	33	7	6.9	1.086	0	2.4	3.7	1.6	2.5	3.3
A96095-3	447	358	80	45	27	13	9.5	1.081	0	2.1	3.5	2.1	1.7	2.9
AOA95154-1	439	363	83	21	45	3	6.5	1.083	5	3.1	3.6	1.9	3.2	2.7
AOA95155-7	371	256	69	1	33	2	4.5	1.079	0	3.4	3.5	1.3	1.7	3.1
<b>Mean</b>	<b>418</b>	<b>333</b>	<b>79</b>	<b>27</b>	<b>37</b>	<b>9</b>	<b>7.3</b>	<b>1.084</b>	<b>3.2</b>	<b>2.5</b>	<b>3.4</b>	<b>1.7</b>	<b>3.5</b>	<b>3.1</b>
LSD (.05)	45	49						0.004		0.3	0.4	0.6	0.7	
LSD (.01)	60	66						0.005		0.4	0.5	0.8	0.9	

<sup>1</sup> Hollow heart/brown center was measured by cutting tubers >12 oz.

<sup>2</sup> Blackspot bruise measured using the abrasive peel method, 1-5 scale where 1=susceptible, 5=resistant.

<sup>3</sup> USDA fry grade score with lower score indicating lighter color; potatoes stored at 40° or 45°F.

<sup>4</sup> Merit Score (1-5 scale 5=good) Preference score for a variety's potential (F=fresh, P=processing)

2005 POTATO VARIETY TRIAL - REXBURG, IDAHO (Garry Summers's Farm).  
Cooperation with Gale Harding, Extension Educator

Clone	Total Yield	U.S. No. 1's			Culls & U.S. No.2	Average Tuber Size	Specific Gravity	Hollow Heart/ <sup>1</sup> Blackspot <sup>2</sup>	Fry 40 <sup>3</sup>	Fry 45 <sup>3</sup>	Merit <sup>4</sup>			
		Yield	%	> 12 oz. 6-12 oz.							F	P		
	---cwt/acre---	-----%-----				oz.		---%---						
RUSSET BURBANK	498	307	62	14	34	22	6.5	1.089	10	2.1	3.9	2.2	2.5	3.0
RUSSET NORKOTAH	402	325	81	26	41	8	7.2	1.077	8	2.0	3.9	3.3	4.3	2.5
WESTERN RUSSET	303	240	79	24	41	8	6.7	1.085	2	1.8	4.0	3.3	3.5	2.5
GEMSTAR	396	314	79	27	39	8	6.7	1.084	3	2.6	3.3	1.6	4.0	4.0
A92030-5	401	315	79	28	39	11	7.5	1.082	0	2.4	3.9	2.9	3.2	2.9
A9304-3	391	301	77	36	35	15	8.6	1.081	0	2.4	3.9	2.9	3.2	2.8
A93157-6LS	438	357	82	18	46	5	6.2	1.088	2	1.8	2.5	1.1	3.7	4.2
A95109-1	337	275	82	18	47	8	6.7	1.089	0	2.5	3.9	2.8	3.5	2.7
A95409-1	430	337	78	29	37	9	6.8	1.087	3	2.2	3.8	2.5	3.5	3.0
A96095-3	423	299	71	35	29	20	7.7	1.078	2	2.1	3.9	2.5	2.3	2.9
AOA95154-1	408	323	79	23	41	10	6.8	1.081	3	2.9	3.7	2.2	3.2	2.9
AOA95155-7	348	239	69	2	33	3	4.4	1.075	0	3.0	3.8	2.0	2.2	2.5
<b>Mean</b>	<b>398</b>	<b>303</b>	<b>77</b>	<b>23</b>	<b>39</b>	<b>11</b>	<b>6.8</b>	<b>1.083</b>	<b>3</b>	<b>2.3</b>	<b>3.7</b>	<b>2.4</b>	<b>3.3</b>	<b>3.0</b>
LSD (.05)	77	67						0.004		0.3	0.3	0.6	0.8	
LSD (.01)	103	90						0.006		0.4	0.4	0.9	1.1	

<sup>1</sup> Hollow heart/brown center was measured by cutting tubers >12 oz.

<sup>2</sup> Blackspot bruise measured using the abrasive peel method, 1-5 scale where 1=susceptible, 5=resistant.

<sup>3</sup> USDA fry grade score with lower score indicating lighter color; potatoes stored at 40° or 45°F.

<sup>4</sup> Merit Score (1-5 scale 5=good) Preference score for a variety's potential (F=fresh, P=processing)

2005 WESTERN REGIONAL RED AND SPECIALTY POTATO VARIETY TRIAL - ABERDEEN, IDAHO.

Clone	Total Yield	Marketable's (4-10oz.)			B's		Culls & U.S. No.2	Average Tuber Size	Specific Gravity	Hollow Heart/ <sup>1</sup> Brown Center	Scab <sup>2</sup>	Merit <sup>3</sup> Fresh
		Yield	%	> 10 oz.	< 4 oz.							
	---cwt/acre---	-----%-----					oz.	---%---				
<b>Red/White Flesh</b>												
Dk. Red Norland	390	243	62	21	16	1	5.6	1.065	8	4.8	3.3	
Red LaSoda	441	233	53	36	8	3	7.4	1.067	3	4.3	2.5	
A96741-1R	492	282	57	18	22	3	5.0	1.063	0	3.3	3.3	
A96741-2R	472	243	51	24	25	0	4.8	1.063	0	4.8	4.3	
VC1075-1R	499	260	52	8	37	3	3.9	1.071	0	4.8	3.5	
<b>Red/Yellow Flesh</b>												
VCO967-2R/Y	388	246	63	5	29	3	4.5	1.073	0	4.0	3.3	
VC1015-7R/Y	254	165	65	11	22	2	4.7	1.069	0	4.3	3.3	
<b>Red/Red Flesh</b>												
CO94183-1R/R	339	196	58	2	30	10	4.0	1.077	0	4.5	3.3	
PA99P20-2	430	214	50	18	19	13	5.4	1.074	3	4.3	3.7	
POR01PG20-12	501	285	57	7	31	5	4.5	1.079	0	4.0	4.0	
<b>Purple/Purple Flesh</b>												
All Blue	457	206	45	5	44	5	3.6	1.077	0	4.5	1.5	
CO94165-3P/P	372	122	33	1	63	3	2.9	1.077	5	3.8	2.5	
<b>Yellow Flesh</b>												
Yukon Gold	357	259	73	6	19	2	4.8	1.084	0	2.5	3.0	
A95074-6	433	209	48	27	16	8	6.0	1.078	25	4.8	2.0	
BTX1544-2W/Y	336	223	66	8	24	1	4.6	1.076	0	4.8	3.3	
CO94157-2W/Y	348	151	43	2	54	1	3.4	1.081	0	4.3	3.8	
NDA5507-3YF	389	250	64	12	19	4	5.2	1.072	8	4.5	3.3	
NY126	389	230	59	26	11	3	6.4	1.087	18	4.5	4.0	
VC1002-3W/Y	434	243	56	3	40	1	3.7	1.079	0	4.8	3.8	
VC1009-1W/Y	567	266	47	39	11	3	6.4	1.075	5	4.3	2.5	
VC1123-2W/Y	417	277	66	14	16	4	5.3	1.074	8	4.0	2.8	
<b>Mean</b>	<b>415</b>	<b>229</b>	<b>56</b>	<b>14</b>	<b>27</b>	<b>4</b>	<b>4.9</b>	<b>1.074</b>	<b>4</b>	<b>4.3</b>	<b>3.2</b>	
LSD (.05)	69						0.7	0.005		1.0	1.0	
LSD (.01)	92						0.9	0.007		1.3	1.3	

<sup>1</sup> Hollow heart/brown center was measured by cutting tubers >10 oz.

<sup>2</sup> Scab tolerance score, 1-5 scale where 1=susceptible, 5=resistant.

<sup>3</sup> Merit Fresh score, a preference rating on appearance and acceptance, 1-5 where 5=best.