

2004 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/ ¹ Brown Center ---%---	Blackspot ² Bruise	Shatter ³ Bruise	Chip 40 ⁴ Color	Chip 50 ⁴ Color	Merit ⁵ Proc
		Yield	%	> 12 oz.	6 to 12 oz.	< 4 oz.								
ATLANTIC	534	476	89	20	55	8	3	1.089	25	2.2	2.9	3.7	1.6	2.5
CHIPETA	567	421	74	46	26	3	23	1.083	0	2.9	3.1	4.1	1.3	3.5
IVORY CRISP	391	296	76	4	41	24	1	1.092	0	2.3	3.5	3.2	1.0	4.0
A91814-5	584	452	77	12	50	13	10	1.092	0	2.9	2.4	3.4	1.2	4.0
B0766-3T	466	339	73	8	38	22	5	1.096	23	3.2	3.2	3.7	1.4	2.5
B1240-1	509	465	91	19	61	6	3	1.086	3	3.1	3.4	4.0	2.0	3.0
CO95051-7W	391	329	84	8	56	13	3	1.097	0	2.3	3.1	2.9	1.5	4.2
COA96141-2C	426	362	85	12	54	12	2	1.079	0	1.6	3.2	2.3	1.1	4.2
COA96142-3C	433	382	88	18	50	9	3	1.089	5	2.1	3.8	4.4	1.0	3.0
Mean	478	391	82	16	48	12	6	1.089	6	2.5	3.2	3.5	1.3	3.4
LSD (.05)	113	110						0.005		0.3	0.3	0.6	0.5	
LSD (.01)	152	148						0.007		0.4	0.4	0.8	0.7	

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

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

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

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

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

2004 TRI-STATE POTATO VARIETY TRIAL - ABERDEEN, IDAHO.

Clone	Total Yield ---cwt/acre---	U.S. No. 1's					Culls & U.S. No.2	Specific Gravity	Hollow Heart/ ¹ Brown Center	Blackspot ² Bruise	Fry 40 ³ Color	Fry 45 ³ Color	Merit ⁴	
		Yield	%	> 12 oz.	6 to 12 oz.	< 4 oz.							F	P
RANGER RUSSET	566	501	89	33	48	3	8	1.089	0	3.8	2.9	1.3	4.3	4.2
RUSSET BURBANK	514	332	65	16	36	10	26	1.082	5	3.2	3.2	1.2	2.8	3.7
A95409-1	506	457	90	50	36	2	7	1.085	0	3.4	3.3	1.6	3.3	3.7
A96023-6	489	419	86	14	55	8	7	1.083	0	3.0	2.6	1.5	3.8	4.0
A96095-3	546	488	89	57	29	3	8	1.077	0	3.7	2.8	0.6	3.8	4.0
A96104-2	550	462	84	34	41	8	8	1.082	5	2.9	2.6	1.0	3.8	4.2
A98295-3TE	331	279	84	5	51	15	2	1.083	0	2.8	4.0	1.8	2.5	2.0
AO96164-1	560	446	80	41	34	3	17	1.085	0	3.1	1.8	1.4	3.0	4.5
AOA95154-1	537	479	89	23	53	7	4	1.090	0	3.1	1.3	0.4	4.5	5.0
AOA95155-7	460	409	89	28	50	3	8	1.080	5	1.8	2.3	0.4	3.3	4.0
COA96054-3	374	310	83	31	39	10	7	1.092	3	3.1	3.3	1.5	2.8	3.5
PA97B3-2	365	270	74	9	41	19	7	1.088	0	3.5	2.6	0.3	2.0	3.0
Mean	372	292	78	14	43	14	8	1.080	4	3.2	2.9	1.3	3.3	3.8
LSD (.05)		33								0.7	0.6	0.5		
LSD (.01)		45								1.0	0.9	0.7		

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

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

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

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

2004 REGIONAL POTATO VARIETY TRIAL - ABERDEEN, IDAHO.

Clone	Total Yield	U.S. No. 1's					Culls & U.S. No.2	Specific Gravity	Hollow Heart/ ¹ Brown Center	Blackspot ² Bruise	Fry 40 ³ Color	Fry 45 ³ Color	Merit ⁴	
		Yield	%	> 12 oz.	6 to 12 oz.	< 4 oz.							F	P
---cwt/acre---		-----%-----					---%---							
RANGER RUSSET	542	507	94	32	55	3	4	1.092	0	3.8	2.8	1.7	4.0	4.0
RUSSET BURBANK	490	341	70	8	44	12	19	1.082	21	3.0	3.1	1.3	2.8	3.7
RUSSET NORKOTAH	290	232	80	7	47	18	2	1.079	3	3.0	3.5	2.6	2.5	2.5
A92030-5	456	379	83	55	24	2	14	1.089	8	3.3	3.0	1.9	2.8	3.7
A92294-6	654	398	61	14	39	7	32	1.094	0	2.9	1.9	1.0	2.0	4.0
A9304-3	471	409	87	31	52	3	11	1.087	3	2.6	2.9	1.2	3.0	4.0
A9305-10	585	426	73	38	30	4	23	1.093	0	3.3	2.2	1.4	2.5	3.5
A93157-6LS	542	465	86	30	45	5	10	1.089	15	3.6	1.0	0.3	3.5	4.5
A95074-6	565	369	65	31	28	6	28	1.089	10	2.3	2.7	1.3	1.8	3.7
A95109-1	446	417	93	38	47	2	4	1.081	0	2.9	3.6	2.1	3.3	3.7
AC92009-4RU	378	357	94	32	53	3	2	1.098	0	3.1	2.5	1.9	3.8	3.5
AC93026-9RU	400	298	75	33	31	9	17	1.081	13	3.2	3.9	2.8	2.5	2.0
AO96160-3	524	480	92	38	46	3	5	1.088	3	2.6	2.4	1.3	4.5	4.5
ATX91137-1RU	450	389	86	14	53	9	4	1.073	0	2.1	3.8	1.7	3.5	2.5
ATX92230-1RU	513	464	90	38	47	3	7	1.085	8	2.5	3.3	1.7	2.3	2.0
CO93001-11RU	396	335	85	5	53	13	3	1.076	0	3.0	3.3	1.0	2.8	3.0
CO94035-15RU	367	321	87	30	46	7	6	1.080	18	2.6	3.5	1.4	2.8	2.7
PA95A11-14	281	139	49	0	20	49	1	1.084	0	2.8	4.0	3.4	1.3	1.0
TC1675-1RU	380	312	82	27	42	13	5	1.087	6	3.2	3.5	0.9	3.5	3.5
Mean	460	370	81	26	42	9	10	1.086	5	3.1	3.0	1.6	2.9	3.3
LSD (.05)	89	84						0.005		0.4	0.5	0.7	0.8	
LSD (.01)	119	112						0.007		0.5	0.7	0.9	1.1	

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

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

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

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

2004 REGIONAL POTATO VARIETY TRIAL - KIMBERLY, IDAHO.

Clone	Total Yield	U.S. No. 1's					Culls & U.S. No.2	Average Tuber Size	Specific Gravity	Hollow Heart ¹ Brown Center	Blackspot ² Bruise	Fry 40 ³ Color	Fry 45 ³ Color
		Yield	%	> 12 oz.	6-12 oz.	< 4 oz.							
----cwt/acre---		-----%-----					oz.		---%---				
RANGER RUSSET	439	306	70	20	40	10	21	7.1	1.088	0	4.4	3.0	1.1
RUSSET BURBANK	484	295	61	9	38	18	21	5.7	1.083	0	4.1	3.7	1.3
RUSSET NORKOTAH	385	301	78	30	40	7	15	8.4	1.079	0	3.9	4.0	1.6
A92030-5	504	440	87	47	34	6	7	9.4	1.097	0	4.5	3.2	1.3
A92294-6	562	330	59	7	36	12	29	6.4	1.096	0	4.0	2.4	0.3
A9304-3	554	489	88	30	50	4	8	9.0	1.093	0	3.6	2.8	0.4
A9305-10	490	435	89	25	49	8	3	7.1	1.090	0	3.8	2.2	0.4
A93157-6LS	482	394	82	14	54	9	9	6.8	1.092	8	4.5	1.5	0.3
A95074-6	464	383	83	28	42	7	11	8.4	1.100	5	3.4	2.7	0.4
A95109-1	403	376	93	36	52	3	3	9.1	1.085	3	3.5	3.5	1.3
AC92009-4RU	347	321	93	34	49	5	2	8.7	1.103	0	3.7	3.3	1.5
AC93026-9RU	484	389	80	23	45	9	10	7.4	1.094	0	3.9	3.0	1.8
AO96160-3	462	404	87	14	54	11	2	6.8	1.096	0	3.1	2.4	0.5
ATX91137-1RU	457	399	87	19	52	8	5	7.3	1.078	0	2.9	3.1	1.4
ATX92230-1RU	371	303	82	39	36	5	13	8.8	1.087	8	3.3	2.5	1.1
CO93001-11RU	470	391	83	13	54	12	4	6.7	1.073	0	3.9	3.6	0.4
CO94035-15RU	375	303	81	33	35	8	11	7.2	1.081	8	3.3	3.1	0.9
PA95A11-14	365	278	76	8	44	19	5	5.2	1.086	0	3.5	3.9	1.9
TC1675-1RU	394	326	83	21	47	11	6	6.7	1.094	0	3.8	3.5	0.3
Mean	447	361	81	24	45	9	10	7.5	1.089	2	3.7	3.0	1.0
LSD (.05)	72	65							0.005		0.4	0.7	0.5
LSD (.01)	96	87							0.006		0.5	1.0	0.6

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

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

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

2004 IDAHO POTATO VARIETY TRIAL - SHELLEY, IDAHO (Deverle and Bart Wattenbarger Farm).
Cooperation with William H. Bohl, Ph.D. Extension Educator-Potatoes

Clone	Total Yield	U.S. No. 1's			Culls & U.S. No.2	Average Tuber Size	Specific Gravity	Hollow Heart/ ¹ Brown Center	Blackspot ² Bruise	Fry 40 ³ Color	Fry 45 ³ Color	Merit ⁴		
		Yield	%	> 12 oz.								6-12 oz.	F	P
	---cwt/acre---	-----%-----				oz.		---%---						
RUSSET BURBANK	520	381	73	11	43	17	6.8	1.084	47	3.7	3.3	1.1	3.5	3.0
RUSSET NORKOTAH	416	331	80	7	46	2	5.6	1.078	0	3.6	3.8	2.0	4.0	2.2
ALTURAS	518	386	75	4	42	3	5.0	1.098	0	3.2	1.8	0.7	2.5	4.5
CALWHITE	598	519	87	40	36	8	8.8	1.089	2	3.7	2.8	2.1	2.5	3.2
SUMMIT RUSSET	455	341	75	3	39	3	5.0	1.099	0	2.4	2.9	1.1	3.3	4.0
GEMSTAR	541	497	92	26	52	3	8.1	1.090	12	3.4	1.3	0.7	4.5	4.7
WESTERN RUSSET	469	409	87	20	51	3	7.1	1.091	3	4.5	3.9	1.9	3.7	2.5
A9305-10	569	461	81	8	48	3	5.6	1.089	0	4.4	2.8	1.2	2.3	4.0
CORN 3	556	494	89	28	46	3	7.5	1.083	28	4.0	3.6	2.0	4.0	2.5
TXN112	441	382	87	17	49	1	6.6	1.081	3	3.6	3.9	2.1	4.3	2.5
TXN223	345	293	85	12	49	4	6.2	1.079	3	3.4	3.8	1.8	4.0	2.0
TXN278	478	414	87	16	53	3	6.6	1.079	4	3.7	3.7	2.2	4.2	2.5
Mean	492	409	83	16	46	4	6.6	1.087	9	3.6	3.1	1.6	3.6	3.1
LSD (.05)	55	61						0.003		0.3	0.5	0.6	0.6	
LSD (.01)	73	82						0.004		0.4	0.7	0.8	0.8	

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

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

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

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

2004 POTATO VARIETY TRIAL - REXBURG, IDAHO (Garry Summers's Farm).
Cooperation with Gale Harding, Extension Educator

Clone	Total Yield ----cwt/acre---	U.S. No. 1's			Culls & U.S. No.2	Average Tuber Size oz.	Specific Gravity	Hollow Heart/ ¹ Brown Center ---%---	Blackspot ² Bruise	Fry 40 ³ Color	Fry 45 ³ Color	Merit ⁴		
		Yield	%	> 12 oz.								6-12 oz.	F	P
RUSSET BURBANK	416	279	67	15	41	23	7.3	1.085	25	3.5	2.7	1.2	2.7	3.5
RUSSET NORKOTAH	319	212	66	3	34	5	4.6	1.077	0	3.5	3.0	1.8	3.0	2.5
ALTURAS	453	320	71	12	36	7	5.1	1.098	0	3.2	1.4	0.4	2.3	4.0
GEMSTAR	490	407	83	12	49	5	6.2	1.092	0	3.2	1.1	0.5	4.5	4.7
SUMMIT RUSSET	419	316	75	11	38	6	5.6	1.094	2	2.3	2.5	1.2	3.5	4.0
WESTERN RUSSET	338	263	78	19	43	9	6.4	1.090	0	4.6	3.6	2.0	3.7	2.0
UMATILLA RUSSET	434	334	77	15	43	7	6.0	1.090	2	3.9	2.9	1.9	3.5	4.2
A92030-5	407	322	79	37	34	13	8.4	1.087	2	3.8	3.1	1.5	3.7	3.5
A92294-6	591	407	69	9	40	16	6.1	1.096	0	3.3	1.9	0.7	2.5	3.7
A9304-3	450	376	84	21	51	10	7.5	1.091	0	3.2	2.5	0.9	3.8	4.2
A9305-10	550	426	77	15	39	6	5.8	1.091	0	3.6	1.9	0.9	3.2	4.5
A93157-6LS	448	355	79	16	40	2	5.7	1.094	2	4.6	0.6	0.3	3.8	4.2
Mean	443	335	75	15	40	9	6.2	1.090	3	3.5	2.3	1.1	3.3	3.8
LSD (.05)	61	69					0.8	0.004		0.2	0.6	0.6	0.6	
LSD (.01)	82	92					1.1	0.005		0.3	0.8	0.8	0.8	

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

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

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

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

2004 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/ ¹ Brown Center	Scab ²	Merit ³ Fresh
		Yield	%	> 10 oz.	< 4 oz.							
	---cwt/acre---	-----%-----					oz.	---%---				
Red/White Flesh												
Dk. Red Norland	444	323	73	25	12	2	6.3	1.066	3	4.8	3.5	
Red LaSoda	459	271	59	35	9	6	7.1	1.070	18	5.0	1.8	
A96741-1R	504	446	88	11	25	1	4.7	1.071	0	3.5	4.0	
A96741-2R	411	345	84	16	28	0	4.4	1.062	0	4.8	4.0	
AO93487-2R	444	396	89	11	23	0	4.8	1.070	0	4.3	3.5	
CO93037-6R	437	328	75	23	20	2	5.3	1.073	0	4.5	3.8	
NDTX4304-1R	407	240	59	38	9	3	7.3	1.066	0	4.3	3.3	
VC1075-1R	475	440	93	7	23	1	5.4	1.073	3	4.0	4.5	
Red/Yellow Flesh												
VC0967-2R/Y	378	367	97	2	39	1	4.1	1.074	0	4.0	3.3	
VC1015-7R/Y	340	282	83	16	16	1	5.5	1.069	0	3.8	3.0	
Red/Red Flesh												
CO94183-1R/R	362	344	95	3	26	2	4.3	1.078	3	5.0	3.3	
Purple/Purple Flesh												
All Blue	283	261	92	6	44	2	3.5	1.076	10	5.0	2.5	
CO94165-3P/P	376	352	94	5	51	1	3.6	1.075	13	4.8	3.0	
Yellow/Yellow Flesh												
Yukon Gold	327	276	84	15	16	1	5.9	1.086	0	4.0	3.5	
BTX1544-2W/Y	413	248	60	33	6	7	7.7	1.083	63	4.8	2.3	
NDA5507-3YF	426	371	87	12	22	1	5.2	1.075	13	4.8	3.5	
VC1002-3W/Y	419	372	89	10	33	1	4.2	1.086	3	4.8	3.3	
VC1009-1W/Y	578	442	76	23	18	0	5.7	1.079	18	4.8	3.5	
Russet/Yellow Flesh												
A95074-6	389	280	72	24	16	4	5.7	1.076	3	5.0	3.0	
Mean	414	335	81	17	23	2	5.3	1.074	8	4.5	3.3	
LSD (.05)	49							0.004		0.9	0.8	
LSD (.01)	66							0.006		1.2	1.0	

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

² Scab tolerance score, 1-5 scale where 1=susceptible, 5=resistant.

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