

2011 Potato Cultivar Yield and Postharvest Quality Evaluations

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INTRODUCTION

The 2011 Washington “Potato Cultivar Yield and Postharvest Quality Evaluations” annual report provides detailed information about promising new potato clones and cultivars grown in Washington. The data in this report are the result of intensive in-field and postharvest research conducted by the Washington State University (WSU) Potato Variety Development Program. Our objective is to identify new potato varieties that will provide profitable, sustainable production for the grower, improved competitiveness for the Washington potato industry, a healthy, inexpensive food supply for American consumers, and contributions towards a healthy environment.

This book reports potato clone and cultivar performance within five research trials: Red and Specialty, Early-Harvest Tri-State, Early-Harvest Regional, Late-Harvest Tri-State, and Late-Harvest Regional. The Tri-State trials evaluate the newest clones coming from the Tri-State program (Washington, Oregon, and Idaho) and the Regional Trials evaluate advanced clones that have graduated from the Tri-State in addition to advanced clones from other programs. Our goal is to provide meaningful information that can be used by growers, processors, fresh-pack sheds, researchers, and other industry personnel.

The majority of the potato clones and cultivars evaluated in this report came from USDA/ARS funded breeding programs located at Aberdeen, ID and Prosser, WA. Additional clones and cultivars came from Oregon State University, Colorado State University, Texas A&M University, North Dakota State University, University of Minnesota, USDA/ARS Beltsville, and Vauxhall, Alberta, Canada. The WSU Potato Variety Development Program is aided in research, administrative detail, and funding by the Washington State Potato Commission, the Northwest (Tri-State) Potato Variety Development Program (Idaho, Oregon, and Washington, USDA/ARS), the Western Coordinating Committee 27 (WERA-27), and other members of the U.S. potato industry. In 2005 the state potato commissions of Washington, Oregon, and Idaho launched a nonprofit corporation called the Potato Variety Management Institute (PVTI) to handle the licensing and royalty collection on Tri-State potato varieties. PVTI's main mission is to promote new varieties of potatoes and insure that the funds generated are returned to the Tri-State potato breeding program. Information on Tri-State released varieties can be found at www.pvti.org.

Recent Accomplishments: The effect of the Tri-State Potato Variety Development Program on the Northwest potato industry has been substantial. The fresh market industry, french fry processors and chippers have incorporated many varieties developed through the Tri-State variety development program into their businesses. Ranger Russet, Umatilla Russet, Alturas, Premier Russet, Bannock Russet, Western Russet, and Alpine Russet are examples of russet cultivars released from the Tri-State program that have greatly benefited the United States and Northwest potato industry, being the 3rd, 4th, 7th, 11th, 14th, 21st, and 24th most widely grown cultivars in the United States in 2011, respectively, with Tri-State varieties representing over 20%, or 194,000 acres, of the fall crop nationally. (NASS, Crop Production, November, 2011). Ranger Russet, Umatilla Russet, and Western Russet were the 3rd, 4th, and 5th most widely grown cultivars in Idaho in 2011, respectively, and accounted for 17% of the planted acreage in Idaho in 2011. Umatilla Russet, Ranger Russet, Alturas, and Premier Russet were the 2nd, 4th, 5th, and 9th most widely grown cultivars in WA in 2011, respectively, and accounted for 39% of the total acreage. In OR, these cultivars ranked 4th, 2nd, 7th, and 8th, respectively, and accounted for 36% of 2011 total acreage, up 5 percent from 2010. Up 15,000 acres from 2010, varieties recently released by the Tri-State program are now produced on over 130,000 acres in the Pacific Northwest with value to growers estimated at approximately \$470 million. Compared with 2010, the 2011 US farm-gate value of Tri-State varieties increased by approximately \$55 million.

ADVANCED LINES - REGIONAL TRIAL
Fresh Market Value Merit Scores - Washington
(Entries ranked according to performance)

Scores based on 1 to 5 (5 = Best) and are averaged across multiple trials, unless bolded.
Values of bolded entries are from one year only.

Rank	Entry	Early Harvest		Late Harvest	
		Merit	Rank	Entry	Merit
1	CO99100-1Ru	3.5	1	AO02183-2	4.1
2	AO00057-2	3.5	2	A01010-1	3.6
3	Russet Norkotah	3.2	3	AOTX96265-2Ru	2.8
4	AOTX96265-2Ru	3.1	4	PA00N14-2	2.8
5	AO96305-3	3.1	5	AO96305-3	2.7
6	CO99053-3Ru	3.1	6	CO99053-3Ru	2.7
7	PA00N14-2	2.9	7	A02060-3TE	2.5
8	A02060-3TE	2.8	8	A98345-1	2.5
9	Ranger Russet	2.7	9	Ranger Russet	2.5
10	AO02183-2	2.7	10	Russet Norkotah	2.3
11	A01025-4	2.6	11	AC99375-1Ru	2.3
12	A98345-1	2.5	12	A01025-4	2.2
13	A01010-1	2.4	13	A00324-1	2.0
14	A00324-1	2.4	14	AO00057-2	2.0
15	CO99053-4Ru	2.3	15	Russet Burbank	2.0
16	Russet Burbank	2.2	16	CO99100-1Ru	2.0
17	AC99375-1Ru	2.2	17	CO99053-4Ru	1.5

For more information on these cultivars, see the Early and Late Harvest Regional Trial Sections in This Book.

NEWEST ENTRIES - TRI-STATE TRIAL
Fresh Market Value Merit Scores - Washington
(Entries ranked according to performance)

Scores based on 1 to 5 (5 = Best) and are averaged across multiple trials, unless bolded.
Values of bolded entries are from one year only.

Rank	Entry	Early Harvest		Late Harvest	
		Merit	Rank	Entry	Merit
1	A03158-2TE	4.4	1	A03158-2TE	4.5
2	Russet Norkotah	3.2	2	OR05039-4	3.5
3	AO02060-3	3.1	3	A02507-2LB	3.3
4	A98196-5	3.1	4	A02062-1TE	3.0
5	AO01114-4	3.0	5	AO02060-3	2.8
6	OR05039-4	3.0	6	Ranger Russet	2.5
7	A02062-1TE	3.0	7	AO01114-4	2.3
8	Ranger Russet	2.7	8	Russet Norkotah	2.3
9	A99029-3E	2.4	9	A02138-2	2.3
10	A03131-4TE	2.2	10	A03131-4TE	2.3
11	Russet Burbank	2.2	11	A98196-5	2.2
12	A02138-2	2.1	12	A99029-3E	2.2
13	A02507-2LB	2.0	13	Russet Burbank	2.0
14	A02144-2	1.3	14	A02144-2	2.0

For more information on these cultivars, see the Early and Late Harvest Tri-State Trial Sections in This Book.

ADVANCED LINES - REGIONAL TRIAL
Process Market Merit Scores - Washington
(Entries ranked according to WA field performance)

Scores based on 1 to 5 (5 = Best) and are averaged across multiple trials, unless bolded. Values of bolded entries are from one year only.

Rank	Entry	Early Harvest Merit	Entry	Late Harvest	
				Field Performance Merit	Post-Harvest Processing Merit (3-State)
1	PA00N14-2	4.1	AO02183-2	4.4	4.3
2	AOTX96265-2Ru	3.9	A02060-3TE	4.2	3.4
3	CO99100-1Ru	3.8	A01010-1	4.0	3.4
4	AO96305-3	3.6	AC99375-1Ru	3.8	4.2
5	Ranger Russet	3.4	Ranger Russet	3.7	3.5
6	AC99375-1Ru	3.2	A00324-1	3.6	3.3
7	CO99053-3Ru	3.2	CO99053-3Ru	3.5	3.5
8	Russet Burbank	3.1	AO96305-3	3.4	4.3
9	A01025-4	3.1	AOTX96265-2Ru	3.3	Fresh Only
10	AO00057-2	3.0	AO00057-2	3.2	4.2
11	AO02183-2	3.0	A01025-4	3.2	3.3
12	A00324-1	2.9	PA00N14-2	3.1	3.7
13	Russet Norkotah	2.9	Russet Burbank	2.6	2.6
14	CO99053-4Ru	2.9	Russet Norkotah	1.4	Fresh Only
15	A01010-1	2.8	CO99053-4Ru	1.4	Fresh Only
16	A02060-3TE	2.8	CO99100-1Ru	1.3	Fresh Only
17	A98345-1*	0.0	A98345-1*	0.0	0.0

For more information on these cultivars, see the Early and Late Harvest Regional Trial Sections in This Book. *We cannot recommend A98345-1 due to mottling issues

NEWEST ENTRIES - TRI-STATE TRIAL
Process Market Merit Scores - Washington
(Entries ranked according to WA field performance)

Scores based on 1 to 5 (5 = Best) and are averaged across multiple trials, unless bolded. Values of bolded entries are from one year only.

Rank	Entry	Early Harvest Merit	Entry	Late Harvest	
				Field Performance Merit	Post-Harvest Processing Merit (3-State)
1	A03158-2TE	4.2	A02507-2LB	4.1	4.6
2	A98196-5	4.0	AO01114-4	4.1	4.1
3	OR05039-4	3.8	AO02060-3	3.8	4.2
4	AO01114-4	3.8	Ranger Russet	3.7	3.5
5	A99029-3E	3.7	A02144-2	3.4	4.5
6	AO02060-3	3.7	A03158-2TE	3.3	3.8
7	Ranger Russet	3.4	OR05039-4	3.2	4.5
8	A02138-2	3.3	A98196-5	2.8	4.3
9	A02507-2LB	3.2	A99029-3E	2.6	4.0
10	Russet Burbank	3.1	Russet Burbank	2.6	2.5
11	Russet Norkotah	2.9	A02062-1TE	2.4	3.7
12	A02144-2	2.7	A02138-2	2.2	4.6
13	A03131-4TE	2.4	A03131-4TE	1.9	4.3
14	A02062-1TE	2.1	Russet Norkotah	1.4	Fresh Only

For more information on these cultivars, see the Early and Late Harvest Tri-State Trial Sections in This Book.

2011 Red & Specialty Potato Clones - Washington State University

RANKED ACCORDING TO 2011 US #1 Yield								
US #1 Yield								
US#1 Yield CWT/A	2011		2010		(See also Red & Specialty Section near end of book)			
	US#1 Yield CWT/A	0-6 oz -----%-----	US#1 Yield CWT/A	6-10oz				
CWT/A Comments								
<i>Red Skin/White Flesh*</i>								
Dark Red Norland	542	28	43	415	Nice red color, some irregularly shaped tubers.			
Red LaSoda	683	29	44	426	Deep eyes, irregular shape, light red, sticky stolons**.			
ATTX01178-1R	478	39	43	-	Red, poor skin set, sticky stolons**.			
ATTX98453-6R	439	33	45	-	Uniform shape, wide size range, red, deep eyes.			
CO00291-5R	130	98	2	-	Deep purple-red, small, sticky stolons**.			
CO99076-6R	540	37	41	258	Nice deep red, deep eyes, wide size range.			
CO99256-2R	484	76	20	318	Nice deep red, good shape and size, sticky stolons**.			
OR04131-2	342	86	13	-	Nice deep red color, uniform size.			
<i>Red or Purple Skin/Yellow Flesh</i>								
A99331-2RY	419	73	21	255	Nice red-yellow multicolor, some sticky stolons**.			
ATTX98510-1R/Y	618	40	36	-	Red, flat, deep eyes, rough tubers - DISCARD.			
CO01399-10P/Y	627	54	35	-	Nice deep purple, flat, bronzing, sticky stolons**.			
COTX01403-4R/Y	544	21	27	-	Pink, large size range, sticky stolons - DISCARD.			
<i>Purple Skin/Purple Flesh</i>								
Purple Majesty	471	85	14	254	Deep purple, bronzing, nice shape and size.			
POR05PG56-1	490	94	5	-	Nice purple-lilac color, oblong, uniform size.			
<i>Yellow Flesh</i>								
Yukon Gold	372	19	37	256	Large size range, smooth shape, pink eyes.			
A99433-5Y	520	45	33	279	Round russet, deep eyes, wide size range - DISCARD.			
ATC00293 -1W/Y	517	57	36	416	Light yellow with purple eyes, some Rhizoctonia.			
OR04036-5	479	42	48	-	Oblong yellow, some russetting, nice shape.			

*Skin/Flesh Color: R = Red, W = White, Y = Yellow, P = Purple, Rus = Russet, Buff = off-white with or without light russeting.

** The term "sticky stolons" refers to tubers that remain attached to the plant during harvest. This may not be a problem.

At-Harvest Grading Comments & Fresh Market Appearance

Newest Lines - 2011 Tri-State Trials			
Clone	Fresh Market Appearance		Tuber Appearance Comments
	1-5 (5 = best)		
Early Harvest Tri-State			
Ranger Russet	2.7	Skinny, shape a bit irregular, long.	
Russet Burbank	2.2	Mostly typy, shape a bit irregular.	
Russet Norkotah	3.2	Small, mostly typy.	
A98196-5	3.1	Large, mostly typy, flat.	
A99029-3E	3.7	Large, nonuniform shape, shallow eyes.	
A02062-1TE	3.0	Long, skinny, with dark russetting.	
A02138-2	2.1	Round, light russetting, with irregular shapes.	
A02144-2	1.3	Pear shaped, small. Not an early variety.	
A02507-2LB	2.0	Small, some typy, round.	
A03131-4TE	3.4	Small, nonuniform shape, a bit round.	
A03158-2TE	4.4	Mostly typy, deep eyes.	
AO01114-4	3.0	Looks like Russet Norkotah, typy.	
AO02060-3	3.1	Blocky, mostly typy, short, nonuniform russetting.	
OR05039-4	3.0	Light skin, skinny and long.	
Late Harvest Tri-State			
Ranger Russet	2.5	Mostly typy.	
Russet Burbank	2.0	Shape highly variable; some ugly, mostly typy.	
Russet Norkotah	2.3	Small, skinny, some typy.	
A98196-5	2.2	Variable shape, spotty russetting.	
A99029-3E	2.2	Highly variable shape, some pears - DISCARD.	
A02062-1TE	3.0	Long, skinny, pointy; space closer for shorter tubers.	
A02138-2	2.3	Round, bumpy baseballs - DISCARD.	
A02144-2	1.4	Small, variable shapes, many pear-shaped.	
A02507-2LB	3.3	Short, round, light russet, poor skin set.	
A03131-4TE	2.3	Small, round, baseballs and pears - DISCARD.	
A03158-2TE	4.5	Mostly typy, but bumpy; deep eyes.	
AO01114-4	2.3	Mostly typy, light russet, some skin cracking.	
AO02060-3	2.8	Large, blocky, shape variable, some shatter.	
OR05039-4	3.5	Long, skinny; ugly, feathery skin, poor skin set.	

Ranger Russet

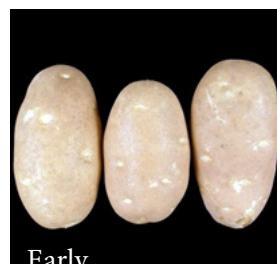


Early



Late

AO03158-2TE



Early



Late

AO01114-4



Early



Late

AO02060-3



Early

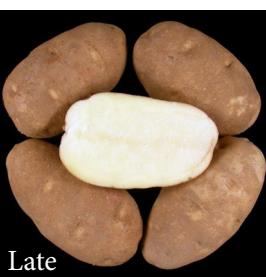


Late

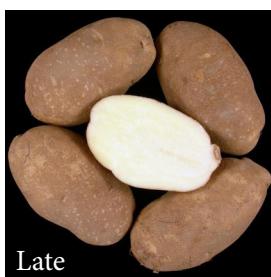
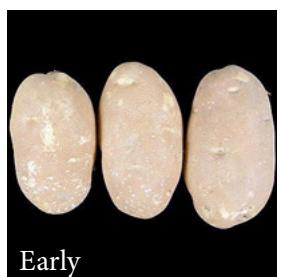
At-Harvest Grading Comments & Fresh Market Appearance

Advanced Lines - 2011 Regional Trials			
Clone	Fresh Market Appearance	Tuber Appearance Comments	
		1-5 (5 = best)	
Early Harvest Regional			
Ranger Russet	2.7	Long, skinny, somewhat rough-shaped, mostly typy.	
Russet Burbank	2.2	Irregular shape, knobs, some typy tubers.	
Russet Norkotah	3.2	Mostly typy, small, some irregular shapes.	
A98345-1	2.5	Round, short, light russet, sticky stolons, uniform shape.	
A00324-1	2.4	Plump, short, ugly light skin, some irregular shapes.	
A01010-1	2.2	Small, mostly typy, some irregular shapes, eyes a bit deep.	
A01025-4	2.6	Large, light, ugly skin, irregular shape.	
A02060-3TE	2.8	Mostly typy, light russet, some irregular shapes.	
AC99375-1Ru	2.2	Small, irregular shape.	
AO00057-2	3.3	Typy, large, dark russet, nice.	
AO02183-2	2.7	Mostly typy, long, skinny, deep eyes, heavy Rhizoctonia.	
AO96305-3	3.1	Long, skinny, ugly skin, growth cracks on some.	
AOTX96265-2Ru	3.1	Small, flat, plump, typy.	
CO99053-3Ru	3.1	Mostly typy, a bit flat, irregular shape.	
CO99053-4Ru	2.1	Typy, a bit flat, somewhat small, light russet, nice.	
CO99100-1Ru	3.5	Small, mostly typy, some irregular shapes and pears.	
PA00N14-2	2.9	Typy, long, skinny, light russet.	
Late Harvest Regional			
Ranger Russet	2.5	Typy, long, a few irregular ones, eyes a bit deep.	
Russet Burbank	2.0	Mostly typy, some irregular shapes, skinny, knobs.	
Russet Norkotah	2.3	Small, somewhat skinny, typy.	
A98345-1	2.5	Large, short; flaky, ugly skin, a bit flat and round, spotty.	
A00324-1	2.0	Mostly typy, small to large, light russet, irregular shape.	
A01010-1	3.6	Mostly typy, flat, some shatter, puffed wheat skin.	
A01025-4	2.2	Large, irregular shape, ugly spotty skin.	
A02060-3TE	2.5	Blocky, typy, shape variable.	
AC99375-1Ru	2.3	Nonuniform; bumpy, irregular shapes, bad skinning.	
AO00057-2	2.0	Short, a bit round, blocky, bumpy, mostly typy.	
AO02183-2	4.1	Mostly typy, bumpy shape, blocky, deep eyes.	
AO96305-3	2.7	Typy, light russet, puffed wheat skin, a few cracks.	
AOTX96265-2Ru	2.8	Shape somewhat irregular, bumpy; deep eyes, shatter.	
CO99053-3Ru	2.7	Mostly typy, variable shape; flaky, puffed wheat skin.	
CO99053-4Ru	1.5	Small, variable shape, light russet, mostly typy.	
CO99100-1Ru	2.0	Mostly typy, small, irregular shape, light russet.	
PA00N14-2	2.8	Typy, a few curves, a bit flat, skin has yellow tint.	

AO02183-2



A01010-1



2011 Early Harvest Tri-State Trial

Summaries

ENTRY	TOTAL YIELD			US # 1's*	US # 2's*	Culls*	CARTON YIELD		PROCESS YIELD	
	CWT/A	STATS**	Tons/A	> 4 oz	> 4 oz	& < 4 oz	% of Total Yield	100-50 count (US 1's 7-18 oz)	Tons/A	US 1's and 2's
										> 6 oz
Ranger Russet	468	BCDE	23.4	84	3	13	46	10.7	60	14.1
Russet Burbank	487	ABCD	24.3	84	2	14	55	13.4	66	16.1
Russet Norkotah	360	G	18.0	69	2	29	22	4.0	37	6.6
A98196-5	505	ABC	25.2	90	0	10	62	15.6	76	19.1
A99029-3E	511	AB	25.5	88	2	10	60	15.4	80	20.4
A02062-1TE	442	BCDE	22.1	93	0	7	69	15.3	81	17.9
A02138-2	483	ABCD	24.1	84	1	15	45	11.0	60	14.6
A02144-2	428	DEFG	21.4	76	0	24	28	5.9	42	8.9
A02507-2LB	388	FG	19.4	81	2	17	34	6.7	52	10.2
A03131-4TE	496	ABCD	24.8	89	1	10	56	13.8	69	17.2
A03158-2TE	551	A	27.5	90	0	10	58	16.0	72	19.7
AO01114-4	429	DEFG	21.4	86	0	14	55	11.9	69	14.7
AO02060-3	403	EFG	20.2	88	0	12	45	9.1	61	12.3
OR05039-4	437	CDEF	21.9	91	5	4	67	14.6	82	18.0

ENTRY	US # 1 YIELD					> 4 oz SPECIFIC GRAVITY	INTERNAL DEFECTS (%)			
	> 4 oz CWT/A	STATS**	> 4 oz Tons/A	4-7 oz*	7-14 oz*		% HH	% BC	% IBS	
					%					
Ranger Russet	394	BCDE	19.7	46	52	3	1.086	0	0	11
Russet Burbank	411	BCD	20.5	35	59	6	1.083	31	25	6
Russet Norkotah	249	G	12.4	68	32	0	1.083	0	0	0
A98196-5	455	AB	22.7	23	58	19	1.083	4	0	8
A99029-3E	449	AB	22.5	17	42	41	1.076	0	0	4
A02062-1TE	412	BCD	20.6	24	69	7	1.075	0	0	0
A02138-2	407	BCD	20.3	46	53	1	1.089	0	0	0
A02144-2	324	EF	16.2	63	37	0	1.083	0	0	0
A02507-2LB	316	FG	15.8	58	42	0	1.081	0	0	0
A03131-4TE	443	ABC	22.2	36	56	9	1.075	5	0	0
A03158-2TE	493	A	24.7	34	60	6	1.083	13	0	0
AO01114-4	369	CDEF	18.5	30	58	12	1.090	0	0	0
AO02060-3	355	DEF	17.7	49	48	3	1.087	0	0	0
OR05039-4	398	BCDE	19.9	27	72	2	1.085	0	0	0

ENTRY	30 DAY STAND	40 DAY STAND	50 DAY STAND	STEMS PER PLANT	AVERAGE TUBER WEIGHT		SKIN SET 1 = Poor 5 = Good	TUBER SHAPE 1 = Round 5 = Long	BRUISE (%) (8-12 oz tubers)	
	% Emerged	% Emerged	% Emerged		Above Ground	Ounces			% HH	% BC
						Tubers/Plant			BLACKSPOT	SHATTER
Ranger Russet	0	0	100	2.0	6.0	8.2	3	4	56	56
Russet Burbank	0	0	98	2.0	6.3	8.2	4	3	38	44
Russet Norkotah	0	0	100	2.3	4.6	8.2	4	4	0	21
A98196-5	0	0	98	1.5	7.8	6.9	4	3	52	60
A99029-3E	0	0	96	1.4	8.7	6.5	4	3	8	32
A02062-1TE	0	0	100	1.5	7.6	6.1	4	4	0	39
A02138-2	0	0	98	2.2	5.6	9.2	4	2	33	50
A02144-2	0	0	93	2.0	5.0	9.6	4	2	33	100
A02507-2LB	0	0	98	2.1	5.5	7.6	4	3	0	67
A03131-4TE	0	0	100	1.9	6.6	8.0	4	2	5	52
A03158-2TE	0	0	98	2.3	6.6	8.9	4	3	38	50
AO01114-4	0	0	98	1.9	7.2	6.5	4	3	8	69
AO02060-3	0	0	96	2.3	5.9	7.4	4	2	17	50
OR05039-4	0	0	93	2.0	7.8	6.3	4	4	13	26

* Percent values may not total 100% due to rounding

**Numbers followed by the same letter are not significantly different at the 5% level using Tukey's HSD Test

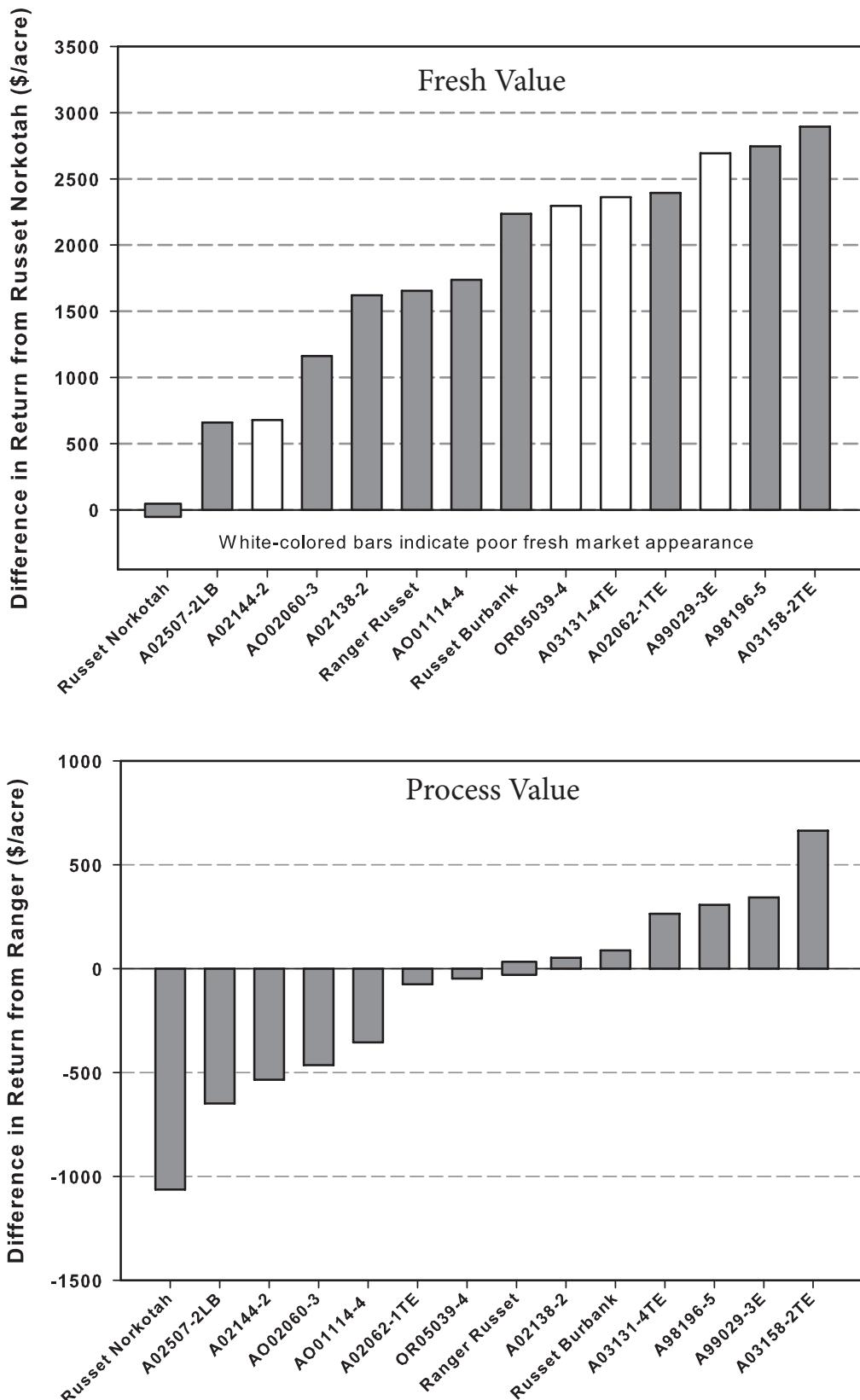


Figure 1 (Top). Difference in gross return per acre (Fresh Market) from Russet Norkotah calculated by subtracting the gross return of Russet Norkotah from the gross return of the particular entry. Figure 2 (Bottom). Difference in gross return per acre (Process Market) from Ranger Russet calculated by subtracting the gross return of Ranger Russet from the gross return of the particular entry.

2011 Late Harvest Tri-State Trial

Summaries

ENTRY	TOTAL YIELD			US # 1's*	US # 2's*	Culls*	CARTON YIELD		PROCESS YIELD	
	CWT/A	STATS**	Tons/A	> 4 oz	> 4 oz	& < 4 oz	% of Total Yield	100-50 count (US 1's 7-18 oz)	Tons/A	% of Total Yield
Ranger Russet	810	AB	40.5	87	5	9	58	23.6	77	31.1
Russet Burbank	807	AB	40.4	84	4	11	53	21.2	77	31.3
Russet Norkotah	513	E	25.6	74	2	24	35	9.1	50	12.7
A98196-5	699	BCD	35.0	86	3	11	55	19.2	80	28.0
A99029-3E	668	CD	33.4	88	5	6	55	18.4	88	29.3
A02062-1TE	605	DE	30.2	91	1	7	67	20.1	84	25.3
A02138-2	789	ABC	39.4	86	4	10	59	23.2	76	30.1
A02144-2	648	D	32.4	83	1	16	54	17.3	69	22.3
A02507-2LB	816	AB	40.8	91	1	7	67	27.2	83	33.8
A03131-4TE	639	D	32.0	87	2	11	59	18.8	73	23.4
A03158-2TE	892	A	44.6	94	0	5	62	27.6	87	38.9
AO01114-4	677	CD	33.9	89	0	11	53	18.1	72	24.3
AO02060-3	724	BCD	36.2	91	1	8	61	22.2	83	30.0
OR05039-4	660	D	33.0	94	3	3	64	21.2	91	30.1

ENTRY	US # 1 YIELD					> 4 oz SPECIFIC GRAVITY	INTERNAL DEFECTS (%)			
	> 4 oz CWT/A	STATS**	Tons/A	> 4 oz	4-7 oz*	7-14 oz*	> 14 oz*			
						%				
Ranger Russet	703	BC	35.2	27	52	21	1.081	0	0	0
Russet Burbank	680	BCD	34.0	21	46	33	1.082	0	14	8
Russet Norkotah	382	F	19.1	51	46	3	1.070	0	0	0
A98196-5	602	CDE	30.1	15	44	41	1.085	0	0	0
A99029-3E	589	CDE	29.5	11	45	44	1.084	0	0	0
A02062-1TE	551	DE	27.6	17	53	30	1.080	0	6	0
A02138-2	675	BCD	33.7	26	55	19	1.089	0	3	0
A02144-2	537	E	26.8	30	56	14	1.089	0	0	0
A02507-2LB	745	AB	37.2	18	58	24	1.096	0	8	3
A03131-4TE	558	DE	27.9	30	61	10	1.077	0	3	0
A03158-2TE	841	A	42.0	14	45	40	1.081	3	0	0
AO01114-4	601	CDE	30.0	29	49	22	1.089	0	0	0
AO02060-3	661	BCDE	33.1	18	46	36	1.081	0	0	0
OR05039-4	621	BCDE	31.1	11	48	41	1.081	0	3	0

ENTRY	30 DAY STAND	40 DAY STAND	50 DAY STAND	STEMS PER PLANT	AVERAGE TUBER WEIGHT		SKIN SET	TUBER SHAPE	BRUISE (%)	
	% Emerged	% Emerged	% Emerged	Above Ground	Ounces	Tubers/Plant	1 = Poor	5 = Good	(8-12 oz tubers)	BLACKSPOT SHATTER
Ranger Russet	0	83	100	2.4	7.5	9.4	4	4	22	24
Russet Burbank	0	42	92	1.9	8.2	9.4	4	4	19	44
Russet Norkotah	0	31	97	2.4	5.1	9.0	5	4	0	21
A98196-5	0	22	80	1.4	8.8	8.6	3	3	14	54
A99029-3E	0	10	93	1.2	10.3	6.1	4	3	10	50
A02062-1TE	0	1	88	1.5	8.5	7.2	4	4	0	26
A02138-2	0	42	99	2.0	7.3	9.5	3	2	37	80
A02144-2	0	8	95	1.8	6.3	9.3	4	3	23	60
A02507-2LB	0	0	97	1.8	8.4	8.7	2	3	30	50
A03131-4TE	0	59	97	2.0	6.8	8.5	4	2	7	33
A03158-2TE	0	13	98	1.7	9.4	8.5	3	3	3	42
AO01114-4	0	7	97	1.9	7.1	8.6	4	3	17	78
AO02060-3	0	16	99	2.0	8.6	7.4	4	3	23	43
OR05039-4	0	27	90	1.6	10.4	6.2	3	4	8	37

* Percent values may not total 100% due to rounding

**Numbers followed by the same letter are not significantly different at the 5% level using Tukey's HSD Test

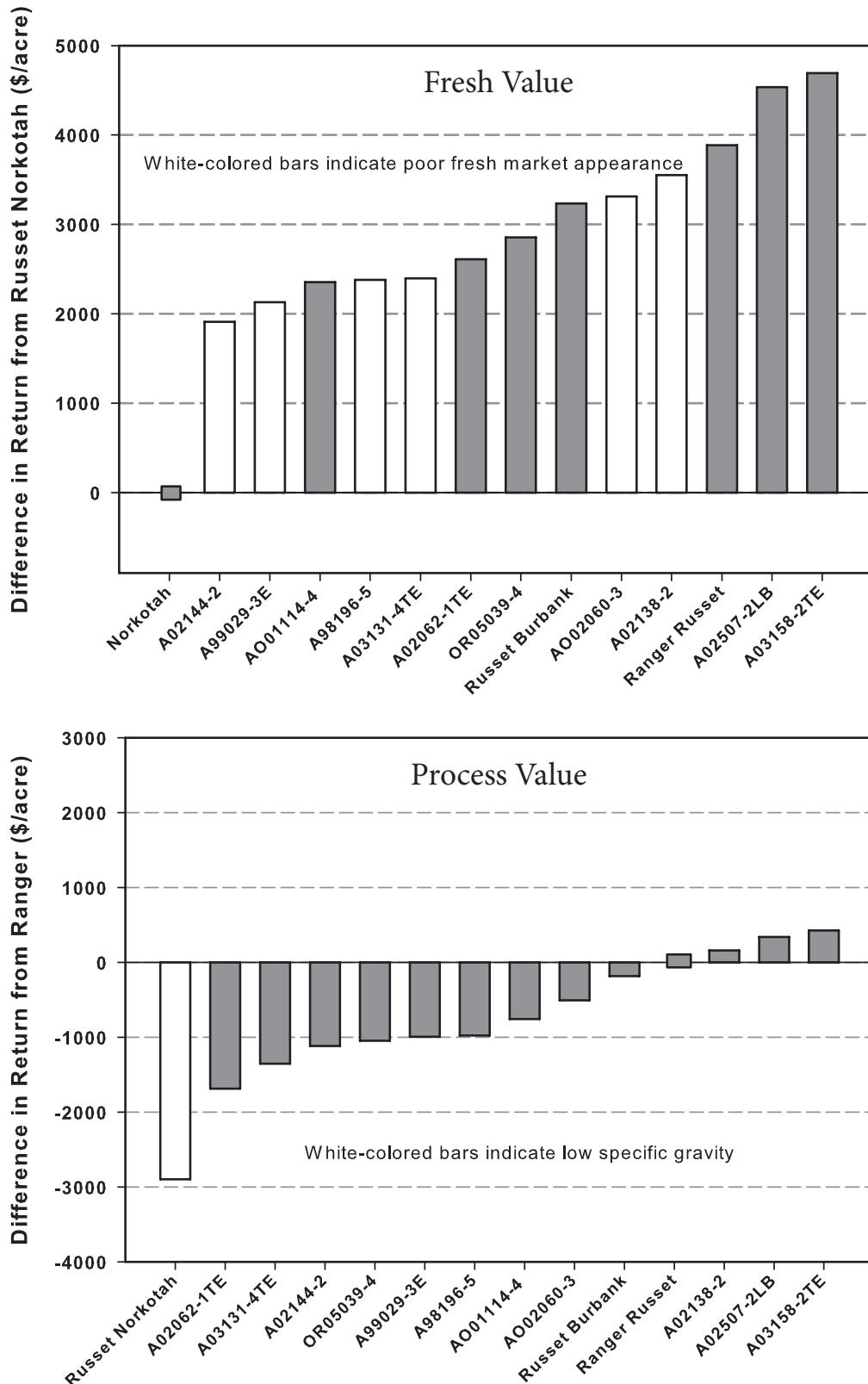
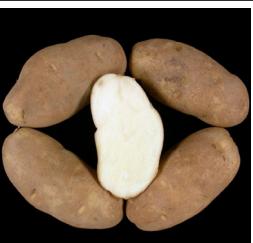
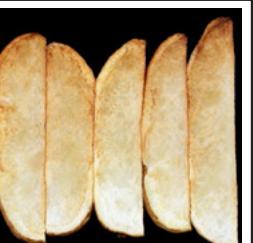
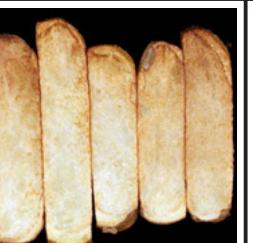
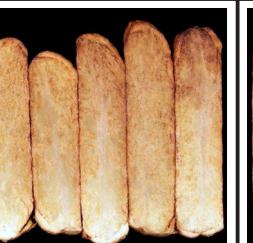
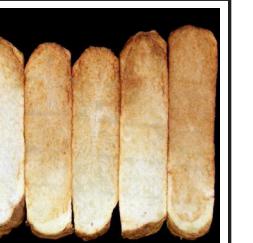
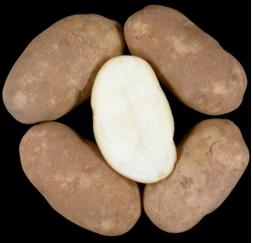
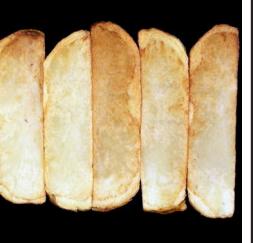
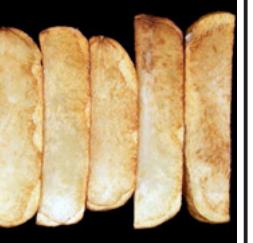
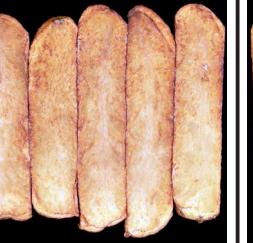
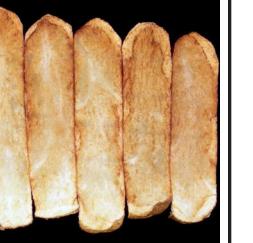
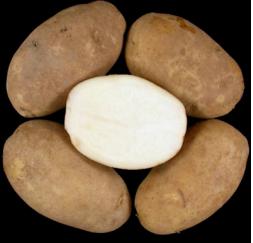
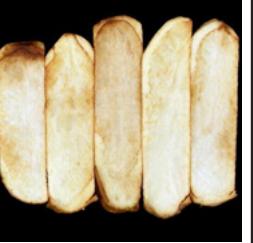
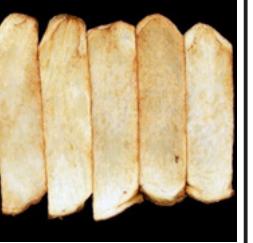
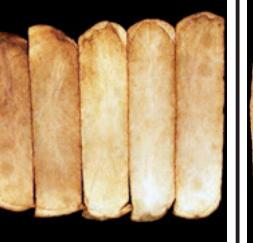
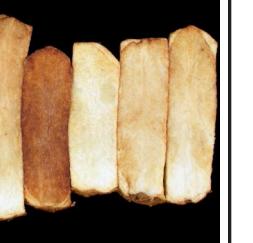
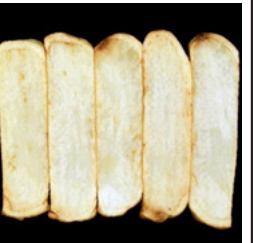
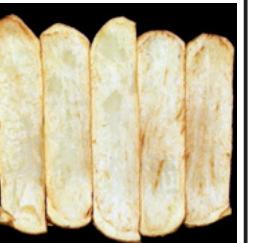
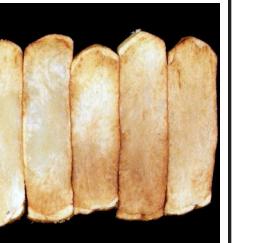
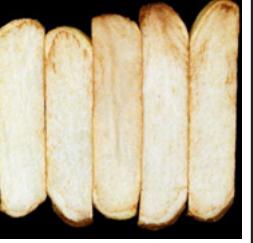
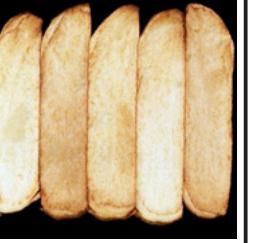
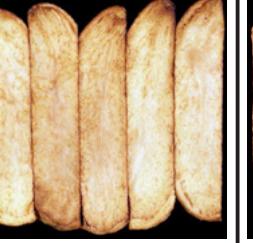
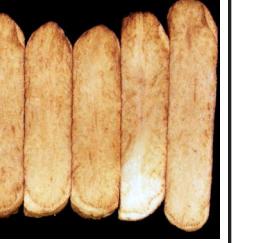
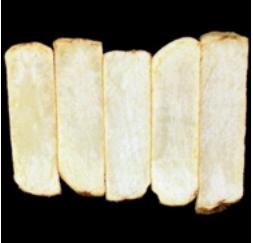
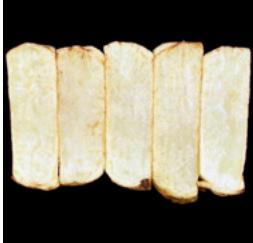
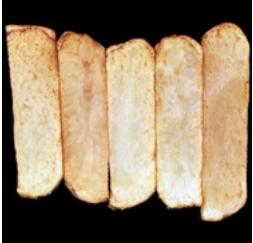
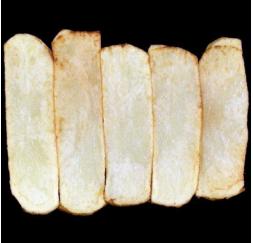
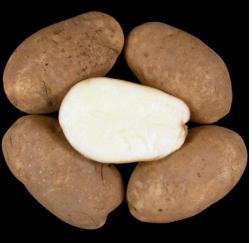
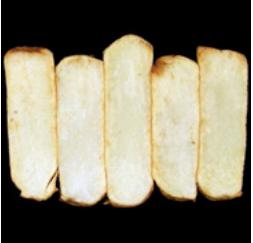
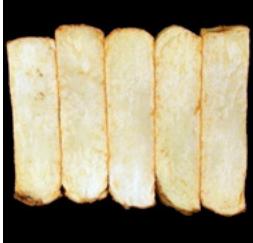
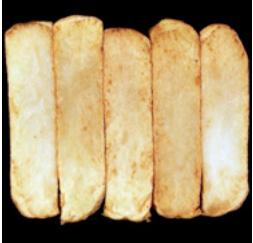
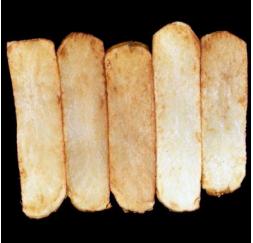
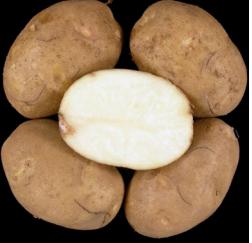
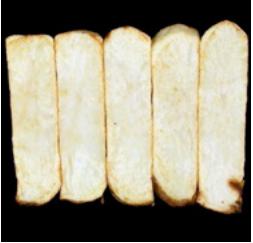
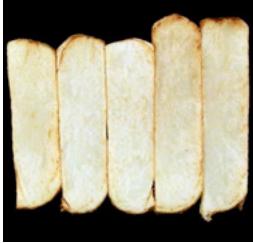
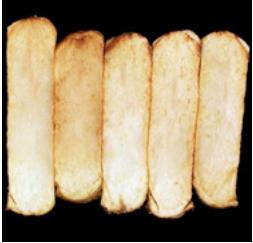
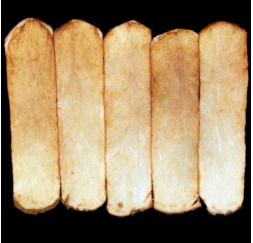
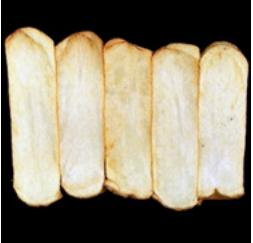
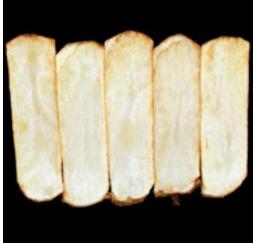
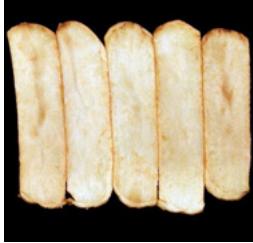
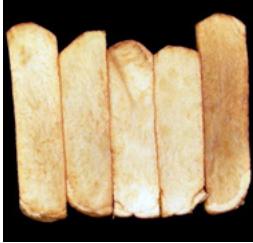
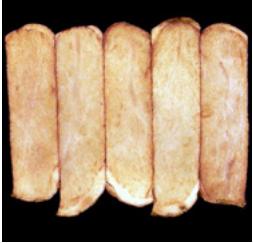
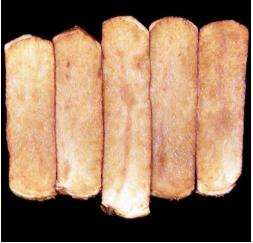
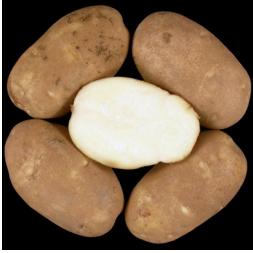
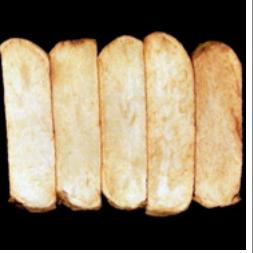
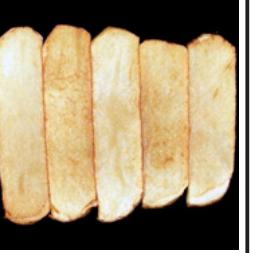
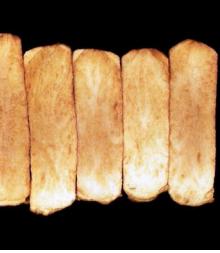
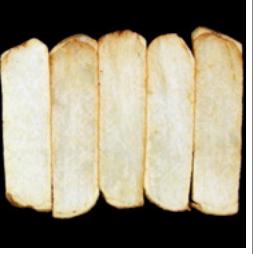
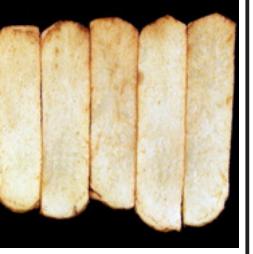
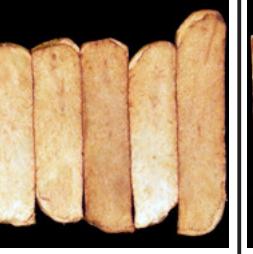
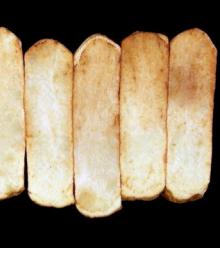
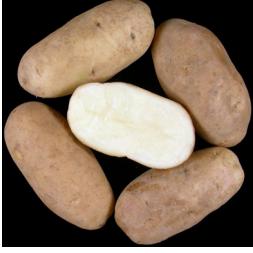
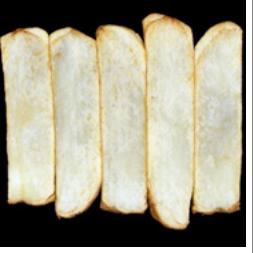
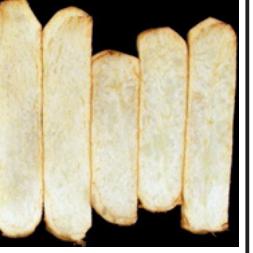
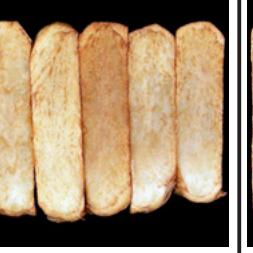
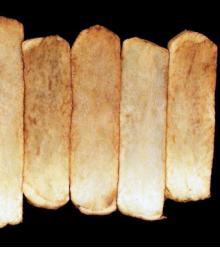


Figure 1 (Top). Difference in gross return per acre (Fresh Market) from Russet Norkotah calculated by subtracting the gross return of Russet Norkotah from the gross return of the particular entry. Entries with the white-colored bars may not appeal to fresh market consumers due to undesirable shape or appearance. Figure 2 (Bottom) Difference in gross return per acre (Process Market) from Ranger Russet calculated by subtracting the gross return of Ranger Russet from the gross return of the particular entry. Entries with the white-colored bars would be penalized (under the mock contract parameters) due to a specific gravity less than 1.075.

Tubers	48° F Storage	44° F Storage	40° F Storage	40° F Recon.	
Ranger Russet					
Russet Burbank					
A98196-5					
A99029-3E	Suggested Discard (Poor economic return and shape)				
					
A02062-1TE					

Tubers	48° F Storage	44° F Storage	40° F Storage	40° F Recon.
A02138-2	Suggested Discard (Poor economic return and shape)			
				
A02144-2				
				
A02507-2LB	Process Market Standout			
				
A03131-4TE	Suggested Discard (Poor economic return and shape)			
				
A03158-2TE	Fresh Market Standout			
				

Tubers	48° F Storage	44° F Storage	40° F Storage	40° F Recon.
AO01114-4	Process Market Standout			
				
AO02060-3	Process Market Standout			
				
OR05039-4				
				



SmartDrop® booms were used to deliver different amounts of water in an irrigation study at the Othello Research Station.

2011 Late Harvest Tri-State Trial

Accumulated Total Postharvest Rating of Clones

Clone	WA		ID		OR		3 State av.
	Rating Total §	Discard §§	Rating Total §	Discard §§	Rating Total §	Discard §§	Rating Total
6 A02138-2	36.4		36.6		32.6		35.2
8 A02507-2LB	33.6		35.6		35.7		35.0
7 A02144-2	36.1		35.4		31.5	Sp. Gr.	34.3
13 OR05039-4	36.4		No Sample		31.9	Sp. Gr.	34.2
12 AO02060-3	36.7		No Sample		30.9	Sp. Gr.	33.8
9 A03131-4TE	32.4		35.1		31.5	Sp. Gr.	33.0
3 A98196-5	33.3		33.6		30.5		32.5
1 Ranger Russet	31.1		32.1		32.5		31.9
5 A02062-1TE	36.6		28.3	Sp. Gr.	28.6	Sp. Gr.	31.2
11 AO01114-4	32.3		No Sample		29.5		30.9
4 A99029-3E	35.5		26.6		28.8	Sp. Gr.	30.3
10 A03158-2TE	35.3		30.5		21.3	Sp. Gr.	29.0
2 Russet Burbank	29.2		22.3	Sp. Gr.	15.1		22.2
	34.2		31.6		29.3		31.8

§ maximum rating possible = 38

§§ Values for the indicated evaluation are lower than the rejection level.

Overall Postharvest Performance of Clones Compared to Russet Burbank.

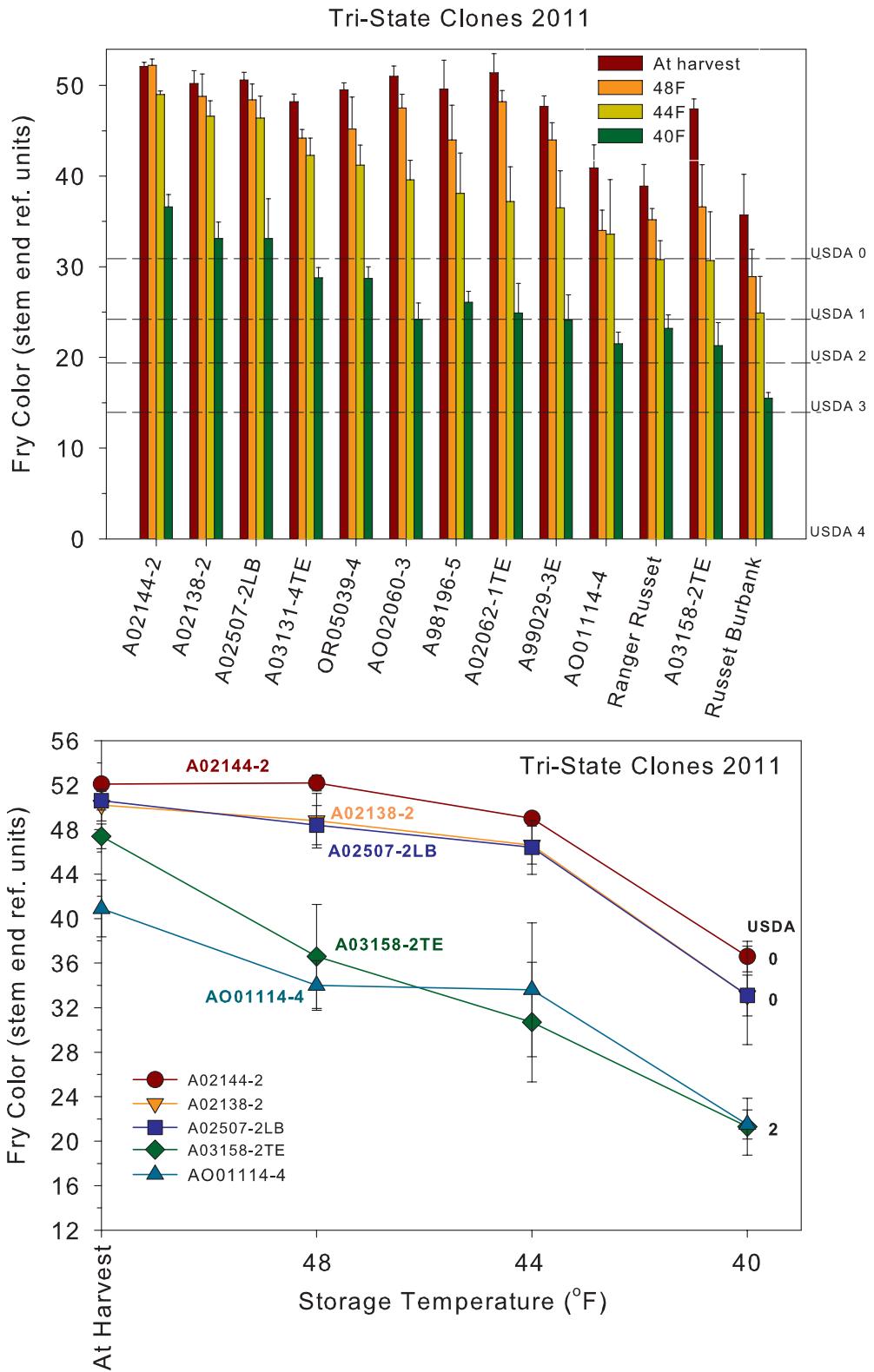
Clone	WA	ID	OR	Average
1 Ranger Russet	H	H	H	H
3 A98196-5	H	H	H	H
4 A99029-3E	H	H	H	H
5 A02062-1TE	H	H	H	H
6 A02138-2	H	H	H	H
7 A02144-2	H	H	H	H
8 A02507-2LB	H	H	H	H
9 A03131-4TE	H	H	H	H
10 A03158-2TE	H	H	H	H
11 AO01114-4	H	No Sample	H	H
12 AO02060-3	H	No Sample	H	H
13 OR05039-4	H	No Sample	H	H

H= Higher than Russet Burbank

S= Same as Russet Burbank

L= Lower than Russet Burbank

2011 Late Harvest Tri-State Trial



Top: At-harvest and after-storage French fry colors (stem end) of clones in the Tri-State Trial. Tubers were stored for 60 days at 48, 44, and 40°F. The clones are ranked from best to worst on fry color of the 44°F-stored tubers. High reflectance values indicate light colored fries.

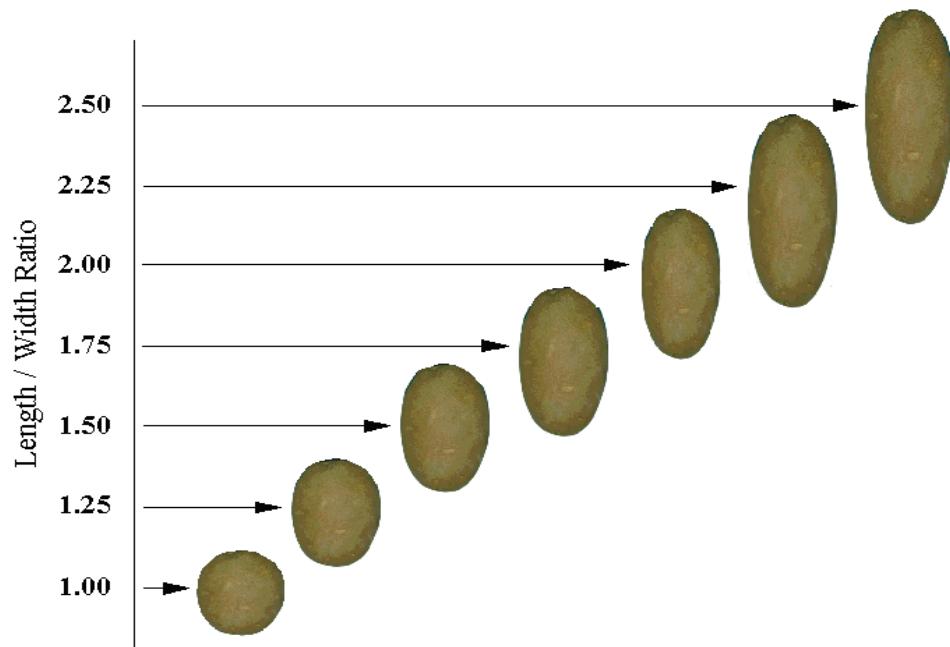
Bottom: Line graph depicting the effects of storage temperature on the change in French fry processing quality (stem end fry color) of the best (A02144-2 and A02138-2) and worst (A03158-2TE and AO01114-4) performing clones in the Tri-State Trial. *Indicates similar performance of the clones last year.

2011 Late Harvest Tri-State Trial

Tuber Shape and Associated French Fry Yields

(8- to 10-oz Tubers)

Clone	Length to width ratio			Yield of 3" or longer fries (% by number)		
	WA	ID	OR	WA	ID	OR
1 Ranger Russet	1.85	2.55	2.01	74	72	72
2 Russet Burbank	1.82	2.12	1.89	73	77	73
3 A98196-5	1.53	1.83	1.39	65	74	59
4 A99029-3E	1.44	1.61	1.32	61	67	55
5 A02062-1TE	2.09	2.64	2.03	76	71	76
6 A02138-2	1.25	1.63	1.25	51	68	51
7 A02144-2	1.51	2.03	1.66	64	77	68
8 A02507-2LB	1.43	1.81	1.34	60	74	56
9 A03131-4TE	1.39	1.74	1.39	58	72	58
10 A03158-2TE	1.45	2.07	No Sample	61	77	No Sample
11 AO01114-4	1.59	No Sample	1.76	67	No Sample	71
12 AO02060-3	1.53	No Sample	1.64	65	No Sample	68
13 OR05039-4	1.92	No Sample	No Sample	75	No Sample	No Sample
Average	1.60	2.00	1.61	65	73	64



2011 Early Harvest Regional Trial

Summaries

ENTRY	TOTAL YIELD			US # 1's*	US # 2's*	Culls*	CARTON YIELD		PROCESS YIELD	
	CWT/A	STATS**	Tons/A	> 4 oz	> 4 oz	& < 4 oz	% of Total Yield	100-50 count (US 1's 7-18 oz)	Tons/A	US 1's and 2's > 6 oz
Ranger Russet	459	AB	23.0	80	4	0	34	7.7	84	19.3
Russet Burbank	453	AB	22.7	77	3	0	42	9.5	80	18.1
Russet Norkotah	299	D	15.0	63	4	0	15	2.2	68	10.1
A98345-1	458	AB	22.9	76	1	0	30	6.8	77	17.6
A00324-1	513	A	25.6	88	2	0	53	13.7	90	23.0
A01010-1	512	A	25.6	84	3	0	42	10.7	87	22.3
A01025-4	522	A	26.1	90	5	0	46	12.1	95	24.8
A02060-3TE	345	C	17.2	84	2	0	49	8.5	86	14.8
AC99375-1Ru	469	AB	23.4	83	3	0	44	10.4	86	20.1
AO00057-2	343	CD	17.1	86	2	0	61	10.4	88	15.0
AO02183-2	448	AB	22.4	86	2	0	39	8.7	88	19.6
AO96305-3	414	BC	20.7	88	0	0	57	11.9	88	18.2
AOTX96265-2Ru	421	BC	21.0	91	1	0	49	10.4	92	19.3
CO99053-3Ru	406	BC	20.3	91	2	0	50	10.2	93	18.8
CO99053-4Ru	394	BC	19.7	82	1	0	32	6.4	83	16.3
CO99100-1Ru	444	AB	22.2	88	0	0	45	10.0	88	19.6
PA00N14-2	413	BC	20.7	85	1	0	35	7.2	86	17.8

ENTRY	US # 1 YIELD					> 4 oz SPECIFIC GRAVITY	INTERNAL DEFECTS (%)			
	> 4 oz CWT/A	STATS**	> 4 oz Tons/A	4-7 oz*	7-14 oz*		(8-12 oz tubers)	% HH	% BC	% IBS
Ranger Russet	367	BCDE	18.4	58	41	1	1.079	13	13	0
Russet Burbank	350	CDE	17.5	44	49	8	1.084	33	33	0
Russet Norkotah	190	F	9.5	76	24	0	1.081	5	10	0
A98345-1	346	CDE	17.3	61	39	0	1.093	0	0	0
A00324-1	450	AB	22.5	36	54	10	1.083	0	0	0
A01010-1	431	ABC	21.6	50	50	0	1.082	0	0	0
A01025-4	469	A	23.4	12	39	49	1.080	0	0	0
A02060-3TE	291	E	14.5	42	55	3	1.082	0	0	18
AC99375-1Ru	390	ABCD	19.5	47	52	2	1.083	0	10	20
AO00057-2	294	E	14.7	29	55	16	1.079	0	0	0
AO02183-2	384	ABCDE	19.2	55	42	3	1.081	0	0	0
AO96305-3	362	BCDE	18.1	32	63	5	1.084	0	0	5
AOTX96265-2Ru	383	ABCDE	19.1	44	50	7	1.088	0	0	0
CO99053-3Ru	369	BCDE	18.4	45	50	5	1.086	0	0	0
CO99053-4Ru	323	DE	16.2	61	39	0	1.083	0	0	0
CO99100-1Ru	390	ABCD	19.5	49	50	1	1.082	0	0	0
PA00N14-2	352	CDE	17.6	59	41	0	1.081	0	0	0

* Percent values may not total 100% due to rounding

**Numbers followed by the same letter are not significantly different at the 5% level using Tukey's HSD Test

ENTRY	30 DAY STAND	40 DAY STAND	50 DAY STAND	STEMS PER PLANT	AVERAGE TUBER WEIGHT		SKIN SET 1 = Poor 5 = Good	TUBER SHAPE 1 = Round 5 = Long	BRUISE (%) (8-12 oz tubers)	
	% Emerged	% Emerged	% Emerged	Above Ground	Ounces	Tubers/Plant			BLACKSPOT	SHATTER
Ranger Russet	0	0	100	2.5	5.5	8.7	3	4	25	63
Russet Burbank	0	0	98	2.1	6.0	7.9	3	3	28	39
Russet Norkotah	0	0	96	2.4	4.4	7.1	4	4	0	38
A98345-1	0	0	96	2.6	5.1	9.4	4	2	33	0
A00324-1	0	0	98	2.2	6.9	7.8	4	3	48	35
A01010-1	0	0	93	2.5	5.7	9.3	4	3	0	100
A01025-4	0	0	93	1.9	10.4	5.3	4	3	38	46
A02060-3TE	0	0	98	2.7	6.0	6.0	4	3	18	45
AC99375-1Ru	0	0	100	1.9	5.7	8.4	3	3	0	40
AO00057-2	0	0	100	1.4	7.0	5.2	4	4	24	59
AO02183-2	0	0	98	2.1	5.8	8.0	4	4	0	50
AO96305-3	0	0	98	2.4	7.2	6.0	4	4	11	63
AOTX96265-2Ru	0	0	93	2.8	6.6	6.8	4	3	27	55
CO99053-3Ru	0	0	97	2.8	6.4	6.6	4	3	14	9
CO99053-4Ru	0	0	100	3.0	5.3	7.7	4	3	50	50
CO99100-1Ru	0	0	98	2.9	6.0	7.7	4	3	14	29
PA00N14-2	0	0	98	1.8	5.7	7.6	4	5	40	0



Zach Holden plants potato seed pieces early in the spring of 2011.

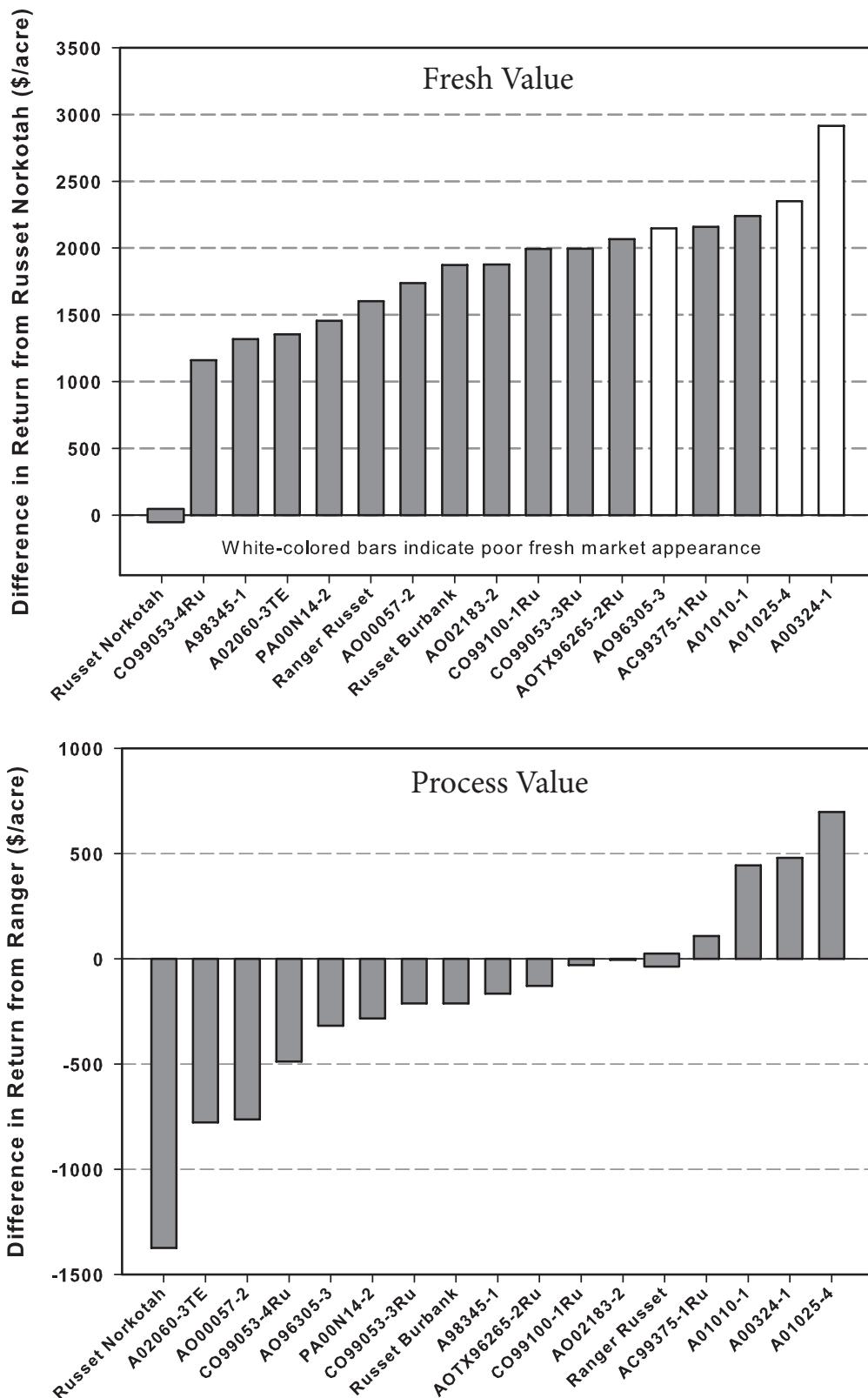
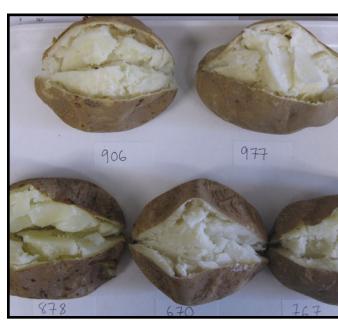


Figure 1 (Top). Difference in gross return per acre (Fresh Market) from Russet Norkotah calculated by subtracting the gross return of Russet Norkotah from the gross return of the particular entry. Entries with the white-colored bars may not appeal to fresh market consumers due to the undesirable shape or appearance.

Figure 2 (Bottom). Difference in gross return per acre (Process Market) from Ranger Russet calculated by subtracting the gross return of Ranger Russet from the gross return of the particular entry.

A YEAR AT A GLANCE



2011 Late Harvest Regional Trial

Summaries

ENTRY	TOTAL YIELD			US # 1's*	US # 2's*	Culls*	CARTON YIELD		PROCESS YIELD				
	CWT/A	STATS**	Tons/A				> 4 oz	> 4 oz	& < 4 oz	% of Total Yield			
Ranger Russet	735	CDE	36.7	85	4	11	56	20.7	75	27.8			
Russet Burbank	641	EFGH	32.1	81	2	16	57	18.3	68	22.1			
A98345-1	1030	A	51.5	94	0	6	62	32.1	86	44.4			
A00324-1	804	BCD	40.2	91	3	6	53	21.1	83	34.1			
A01010-1	896	AB	44.8	92	1	7	66	29.7	79	36.4			
A01025-4	704	DEFG	35.2	90	5	5	45	15.8	91	32.0			
A02060-3TE	721	CDEF	36.1	94	0	6	63	22.6	86	31.2			
AC99375-1Ru	846	BC	42.3	87	3	11	51	21.6	73	30.8			
AO00057-2	578	GH	28.9	89	1	11	57	16.3	78	22.7			
AO02183-2	881	B	44.1	93	1	6	65	28.6	86	38.1			
AO96305-3	609	EFGH	30.5	87	1	12	58	17.8	71	21.9			
CO99053-3Ru	683	DEFG	34.2	89	1	10	59	20.1	77	26.5			
PA00N14-2	589	FGH	29.4	87	0	12	53	15.7	66	19.4			
Russet Norkotah	506	H	25.3	74	2	24	31	7.9	48	12.3			
AOTX96265-2Ru	712	CDEFG	35.6	94	0	6	71	25.2	83	29.7			
CO99053-4Ru	538	H	26.9	79	1	21	41	11.2	54	14.8			
CO99100-1Ru	580	GH	29.0	87	0	13	56	16.3	66	19.3			

ENTRY	US # 1 YIELD					> 4 oz SPECIFIC GRAVITY	INTERNAL DEFECTS (%)			
	> 4 oz CWT/A	STATS**	> 4 oz Tons/A	> 4 oz	4-7 oz*	7-14 oz*	> 14 oz*			
						%		% HH	% BC	
Ranger Russet	628	CDE	31.4	25	50	25	1.086	0	0	3
Russet Burbank	528	EF	26.4	27	57	16	1.076	35	21	3
A98345-1	967	A	48.4	15	47	38	1.086	0	0	3
A00324-1	731	BC	36.6	16	40	45	1.078	3	3	3
A01010-1	829	B	41.5	21	52	27	1.080	0	0	0
A01025-4	633	CDE	31.6	7	29	64	1.082	0	0	3
A02060-3TE	679	C	34.0	13	47	41	1.085	3	3	3
AC99375-1Ru	731	BC	36.6	31	47	22	1.084	0	0	0
AO00057-2	513	EFG	25.7	19	40	42	1.085	0	0	0
AO02183-2	817	B	40.9	13	51	36	1.091	0	0	3
AO96305-3	534	DEF	26.7	29	56	15	1.084	0	0	0
CO99053-3Ru	610	CDE	30.5	23	53	24	1.082	0	0	0
PA00N14-2	513	EFG	25.6	39	57	4	1.082	0	0	0
Russet Norkotah	377	G	18.9	57	40	3	1.070	5	10	0
AOTX96265-2Ru	667	CD	33.4	18	62	20	1.086	0	0	3
CO99053-4Ru	425	FG	21.2	45	46	9	1.080	0	0	0
CO99100-1Ru	507	EFG	25.4	34	58	8	1.075	0	0	0

* Percent values may not total 100% due to rounding

**Numbers followed by the same letter are not significantly different at the 5% level using Tukey's HSD Test

ENTRY	30 DAY STAND	40 DAY STAND	50 DAY STAND	STEMS PER PLANT	AVERAGE TUBER WEIGHT		SKIN SET 1 = Poor 5 = Good	TUBER SHAPE 1 = Round 5 = Long	BRUISE (%) (8-12 oz tubers)	
	% Emerged	% Emerged	% Emerged	Above Ground	Ounces	Tubers/Plant			BLACKSPOT	SHATTER
Ranger Russet	0	65	95	2.4	7.5	8.4	4	4	49	46
Russet Burbank	0	72	97	1.9	6.8	8.2	4	3	6	24
A98345-1	0	83	95	2.3	9.3	9.5	4	2	44	81
A00324-1	0	4	95	2.0	9.7	7.2	4	3	39	67
A01010-1	0	78	97	2.5	8.0	9.6	4	4	6	55
A01025-4	0	36	81	1.6	12.4	5.0	4	3	50	59
A02060-3TE	0	1	96	2.3	9.4	6.7	4	3	9	60
AC99375-1Ru	0	10	96	2.1	7.2	10.2	3	3	19	68
AO00057-2	0	3	88	1.7	7.9	6.4	4	3	6	38
AO02183-2	0	16	94	2.0	9.4	8.1	4	4	11	39
AO96305-3	0	3	99	2.0	7.0	7.5	4	4	9	38
CO99053-3Ru	0	1	96	2.3	7.4	8.0	3	3	6	52
PA00N14-2	0	1	89	2.0	6.2	8.2	4	4	32	47
Russet Norkotah	0	30	96	2.4	5.1	8.6	4	4	0	38
AOTX96265-2Ru	0	51	94	2.6	8.3	7.5	4	3	34	84
CO99053-4Ru	0	29	92	3.1	5.5	8.6	4	3	13	13
CO99100-1Ru	0	38	88	2.9	6.3	8.0	4	3	13	70

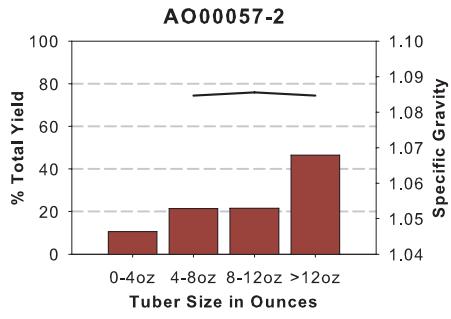
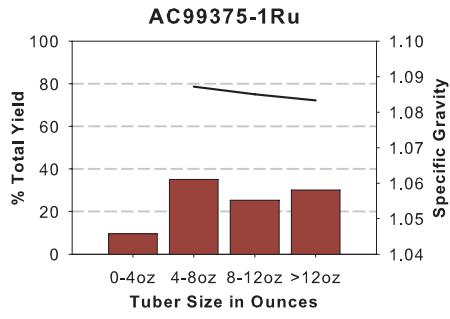
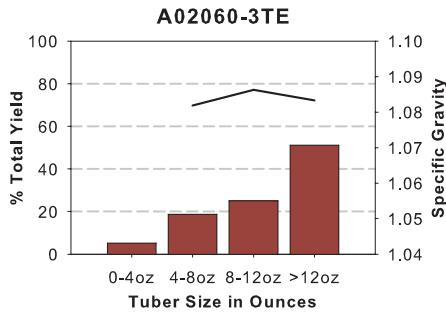
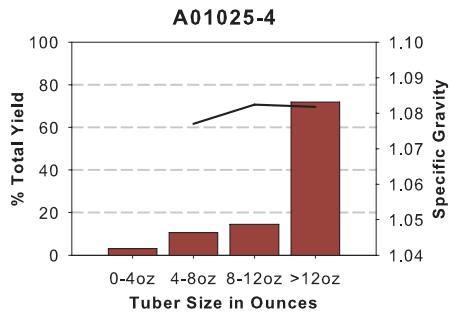
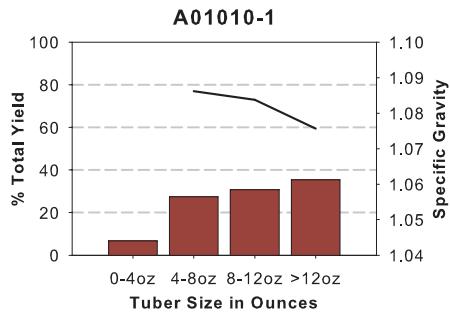
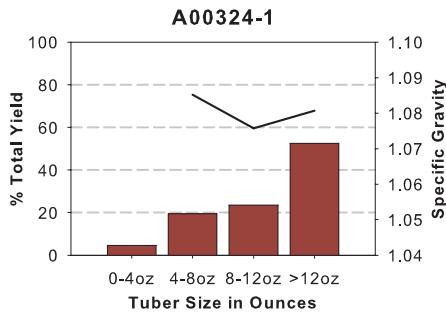
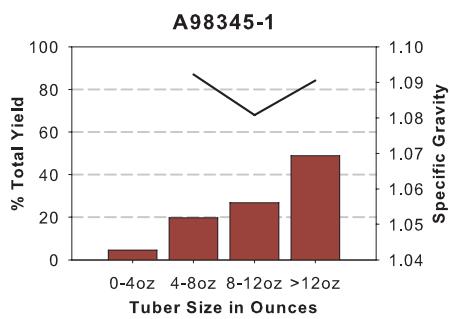
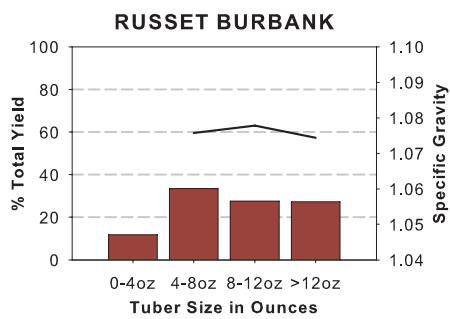
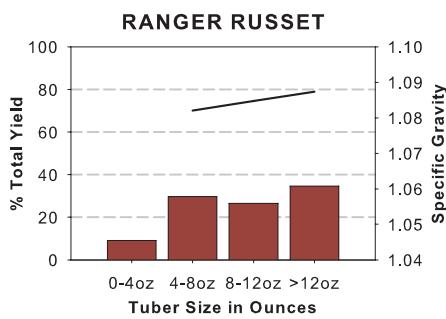
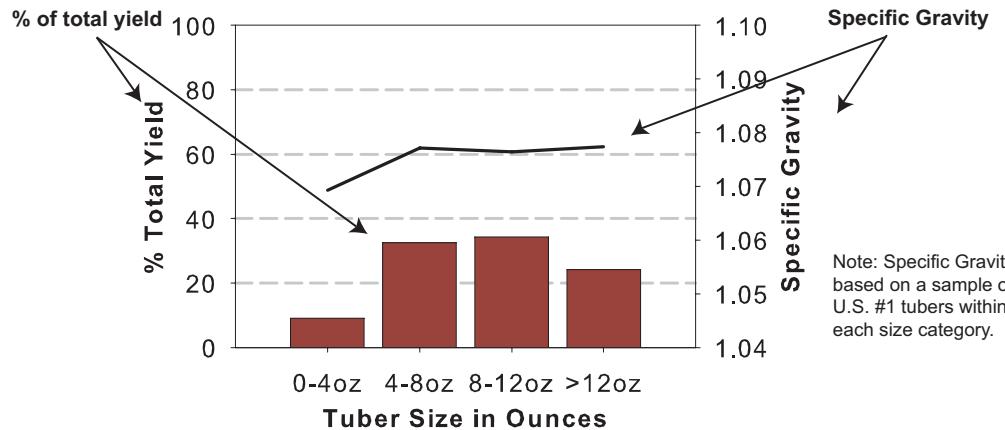


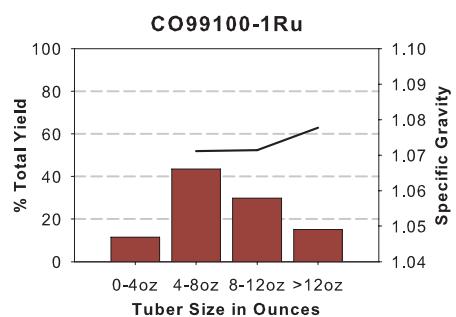
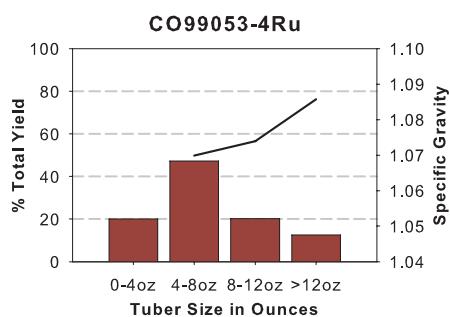
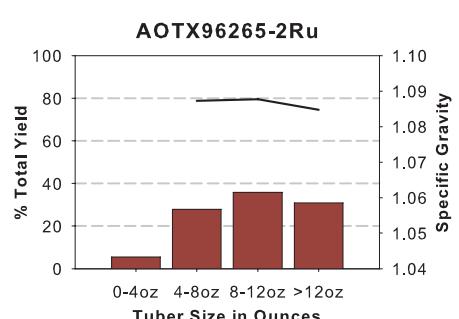
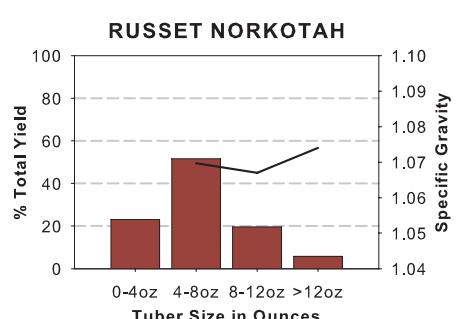
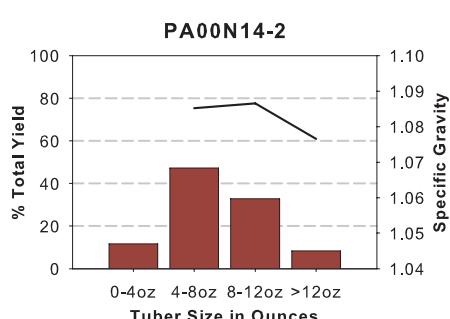
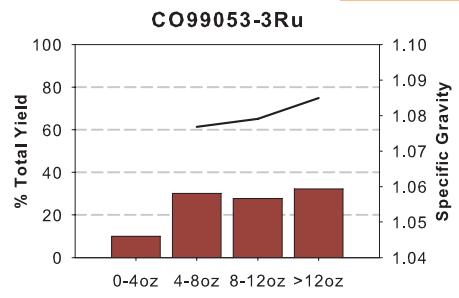
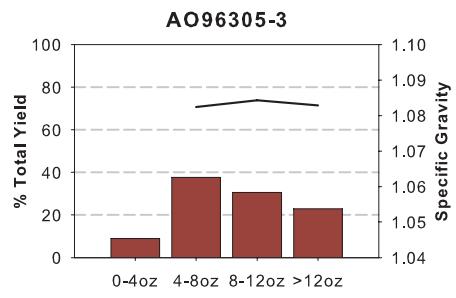
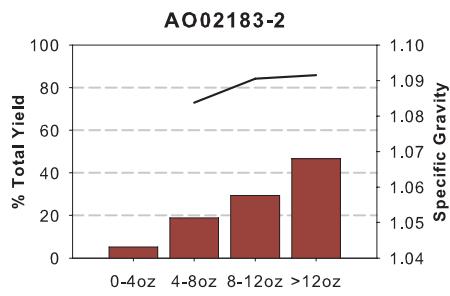
Mel Martin and Allan French of the J.R. Simplot Co. lend a hand during harvest.

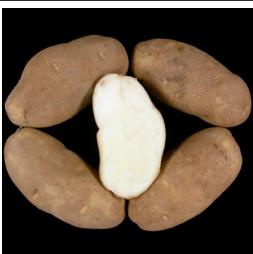
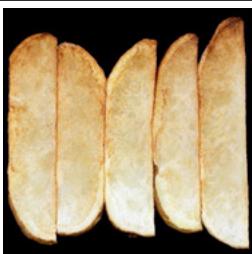
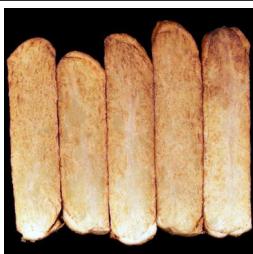
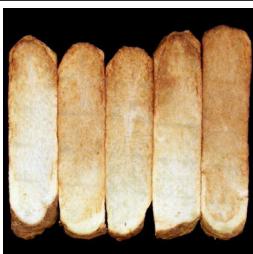
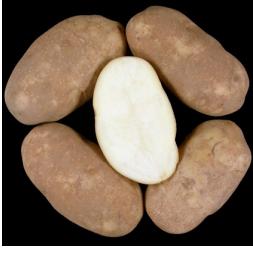
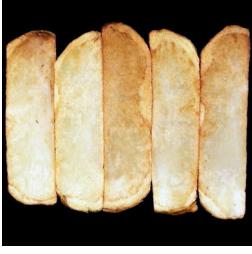
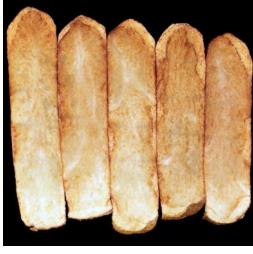
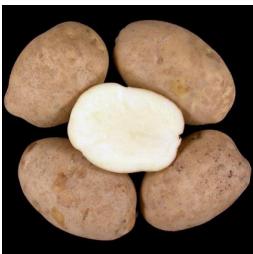
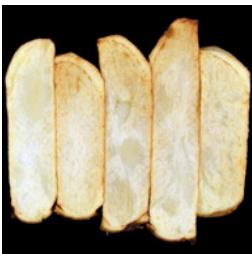
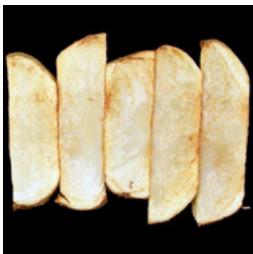
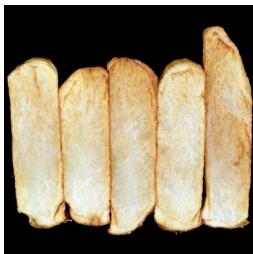
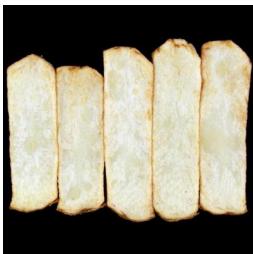
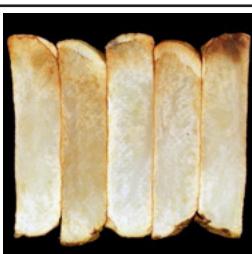
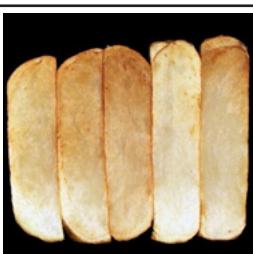
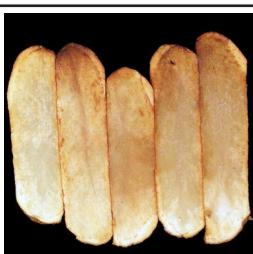
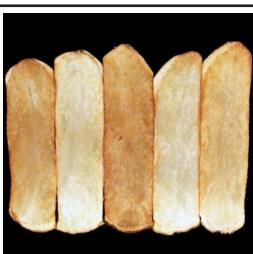
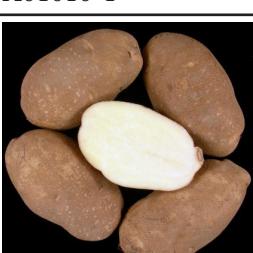
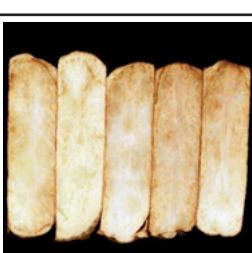
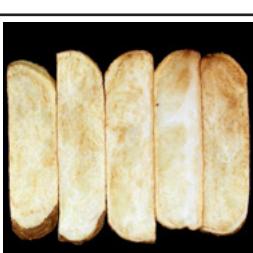
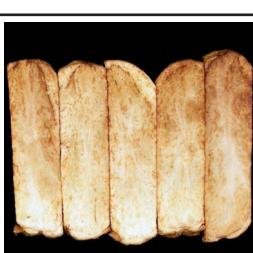
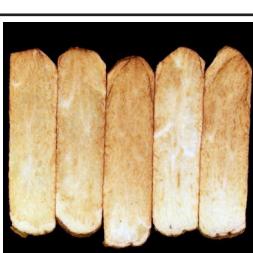
2011 Late Harvest Regional Trial

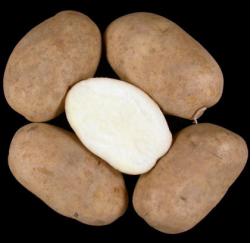
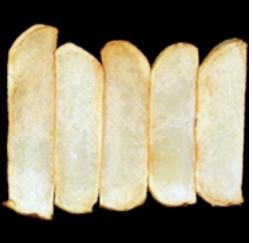
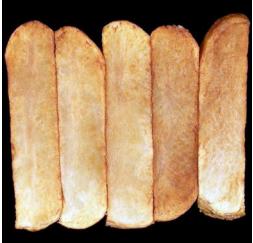
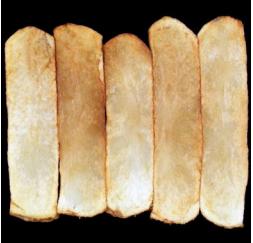
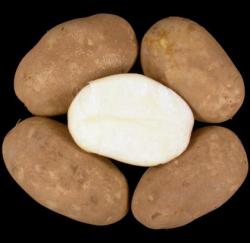
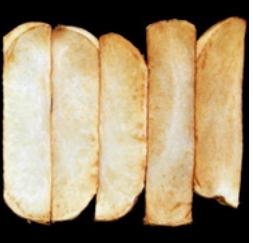
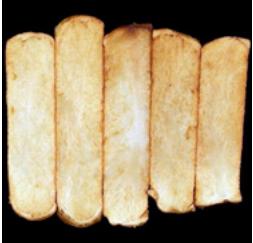
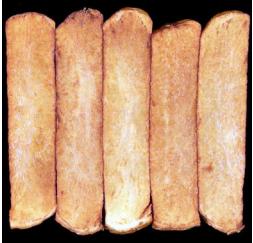
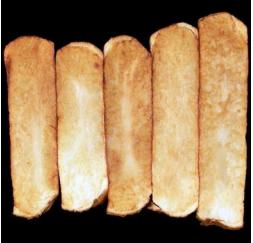
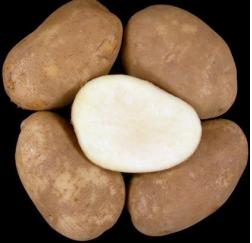
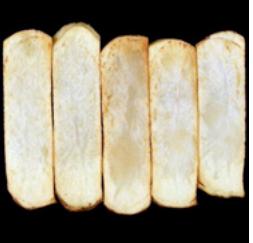
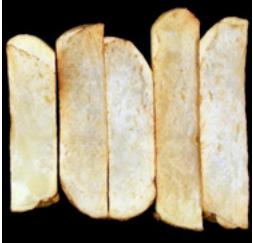
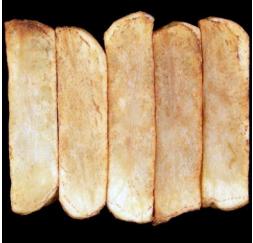
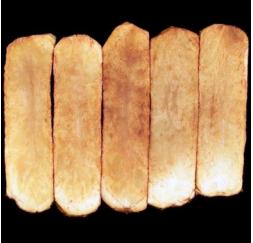
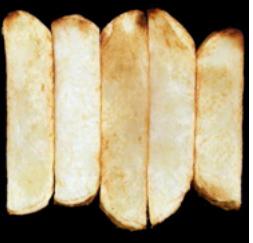
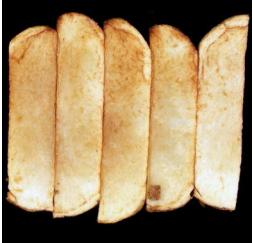
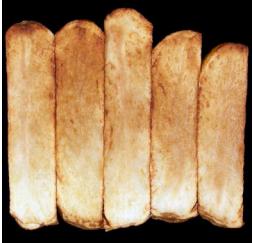
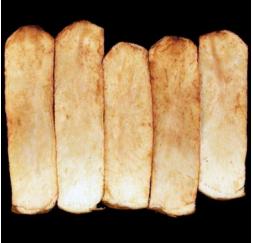
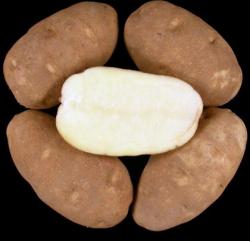
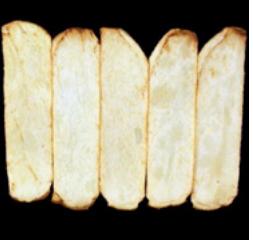
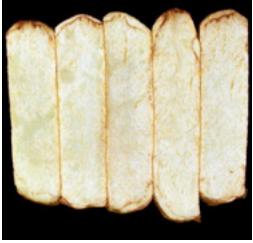
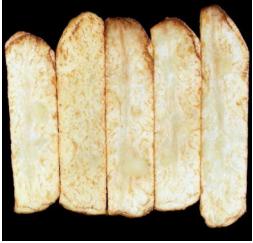
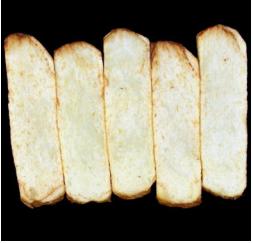
Tuber Yield and Specific Gravity Distributions

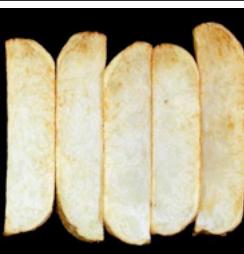
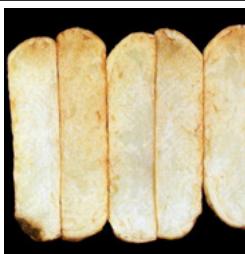
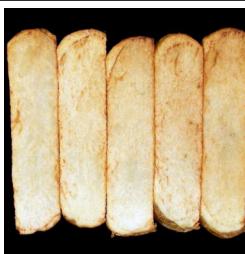
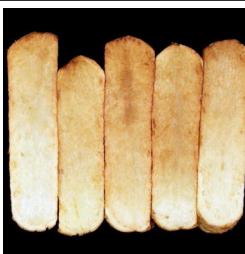
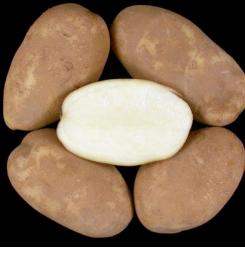
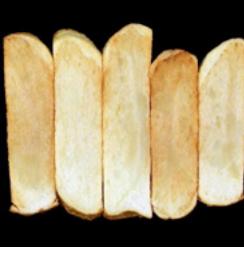
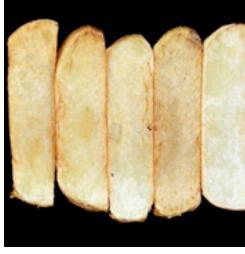
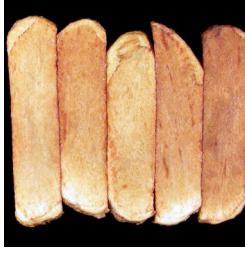
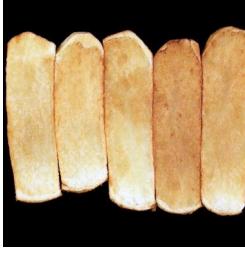
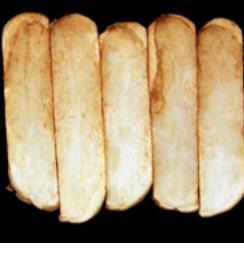
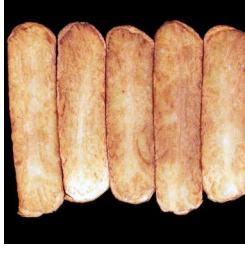
10 inch In-Row Spacing





Tubers	48° F Storage	44° F Storage	40° F Storage	40° F Recon.	
Ranger Russet					
Russet Burbank					
A98345-1	Suggested Discard (Severe mottling of french fries out of storage)				
					
A00324-1					
A01010-1	Fresh and Process Market Standout				
					

Tubers	48° F Storage	44° F Storage	40° F Storage	40° F Recon.	
A01025-4					
AO2060-3TE		Process Market Standout			
					
AC99375-1Ru					
AO00057-2					
AO02183-2		Fresh and Process Market Standout			
					

Tubers	48° F Storage	44° F Storage	40° F Storage	40° F Recon.	
AO96305-3	Fresh Market Standout				
					
CO99053-3Ru					
PA00N14-2	Fresh Market Standout				
					
					

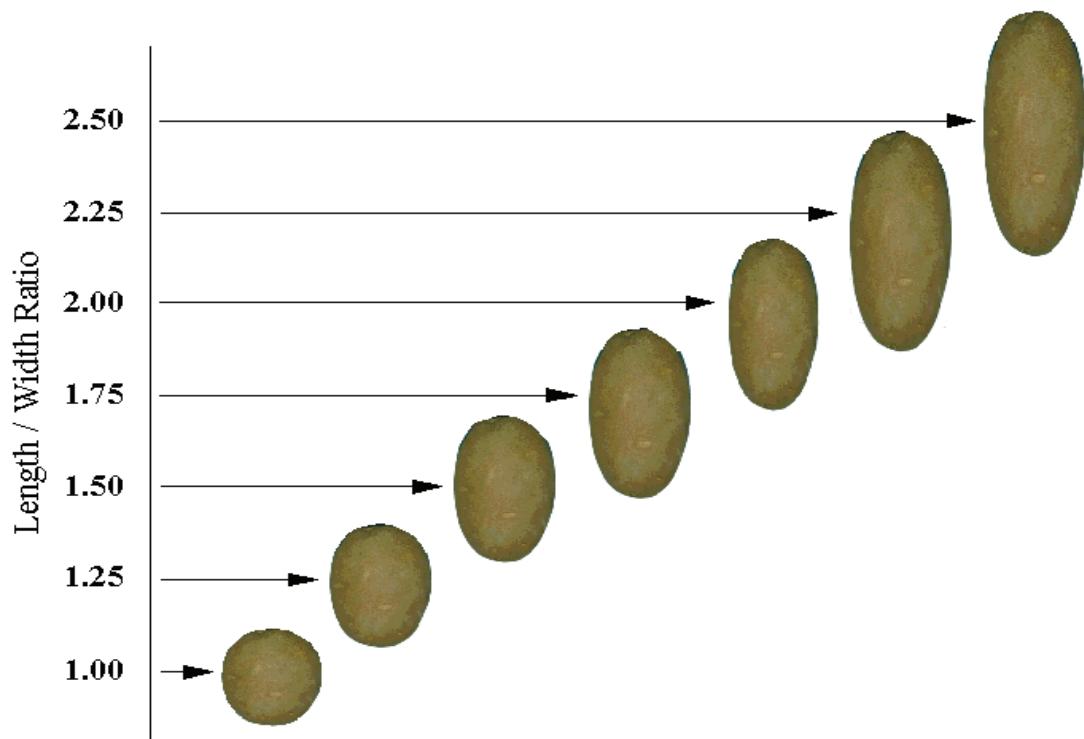
Rain or shine, the Tri-State variety selection tour is essential for bringing new potato varieties to market which keep the PNW growers competitive.

2011 Late Harvest Regional Trial

Tuber Shape and Associated French Fry Yields

(8- to 10-oz Tubers)

Clone	Length to width ratio			Yield of 3" or longer fries (% by number)		
	WA	ID	OR	WA	ID	OR
1 Ranger Russet	1.85	2.45	1.94	74	75	74
2 Russet Burbank	1.82	2.12	1.96	73	78	75
3 A98345-1	1.38	1.67	1.55	58	69	64
4 A00324-1	1.50	No Sample	1.69	63	No Sample	70
5 A01010-1	1.67	2.31	1.81	69	76	72
6 A01025-4	1.69	1.97	1.85	70	76	73
7 A02060-3TE	1.51	1.90	1.76	63	75	71
8 AC99375-1RU	1.60	1.67	1.60	67	70	66
9 AO00057-2	1.48	No Sample	1.53	62	No Sample	64
10 AO02183-2	1.73	No Sample	1.92	71	No Sample	75
11 AO96305-3	1.72	No Sample	2.02	71	No Sample	74
12 CO99053-3RU	1.58	1.72	1.78	66	70	72
13 PA00N14-2	2.03	No Sample	1.75	77	No Sample	72
Average	1.66	1.98	1.78	68	74	71



2011 Late Harvest Regional Trial

Accumulated Total Postharvest Rating of Clones

Clone	WA		ID		OR		3 State av.
	Rating Total §	Discard §§	Rating Total §	Discard §§	Rating Total §	Discard §§	Rating Total
9 AO00057-2	34.7		No Sample		30.6	Sp. Gr.	32.7
3 A98345-1	33.6		37.0		27.0		32.5
11 AO96305-3	36.4		No Sample		27.4	Sp. Gr.	31.9
10 AO02183-2	33.6		No Sample		28.5		31.1
8 AC99375-1Ru	32.5		34.6		23.6	no smpl 44°F	30.2
1 Ranger Russet	31.3		28.6		27.3		29.1
12 CO99053-3Ru	33.3		26.9		26.5	Sp. Gr.	28.9
7 A02060-3TE	34.5		28.9		22.7	Sp. Gr.	28.7
13 PA00N14-2	29.6		No Sample		26.8	Sp. Gr.	28.2
5 A01010-1	28.5		34.0		20.2	Sp. Gr.	27.6
6 A01025-4	26.9	Sp. Gr.	34.4		21.2	Sp. Gr.	27.5
4 A00324-1	27.4		No Sample		18.4	Sp. Gr.	22.9
2 Russet Burbank	29.6		22.5	Sp. Gr.	16.2	Sp. Gr.	22.8
Average	31.7		30.9		24.3		28.8

§ maximum rating possible = 38

§§ Values for the indicated evaluation are lower than the rejection level.

Overall Postharvest Performance of Clones Compared to Russet Burbank

Clone	WA	ID	OR	Average
1 Ranger Russet	H	H	H	H
3 A98345-1	H	H	H	H
4 A00324-1	L	No Sample	H	S
5 A01010-1	L	H	H	H
6 A01025-4	L	H	H	H
7 A02060-3TE	H	H	H	H
8 AC99375-1Ru	H	H	H	H
9 AO00057-2	H	No Sample	H	H
10 AO02183-2	H	No Sample	H	H
11 AO96305-3	H	No Sample	H	H
12 CO99053-3Ru	H	H	H	H
13 PA00N14-2	S	No Sample	H	H

H= Higher than Russet Burbank

L= Lower than Russet Burbank

S = Same as Russet Burbank

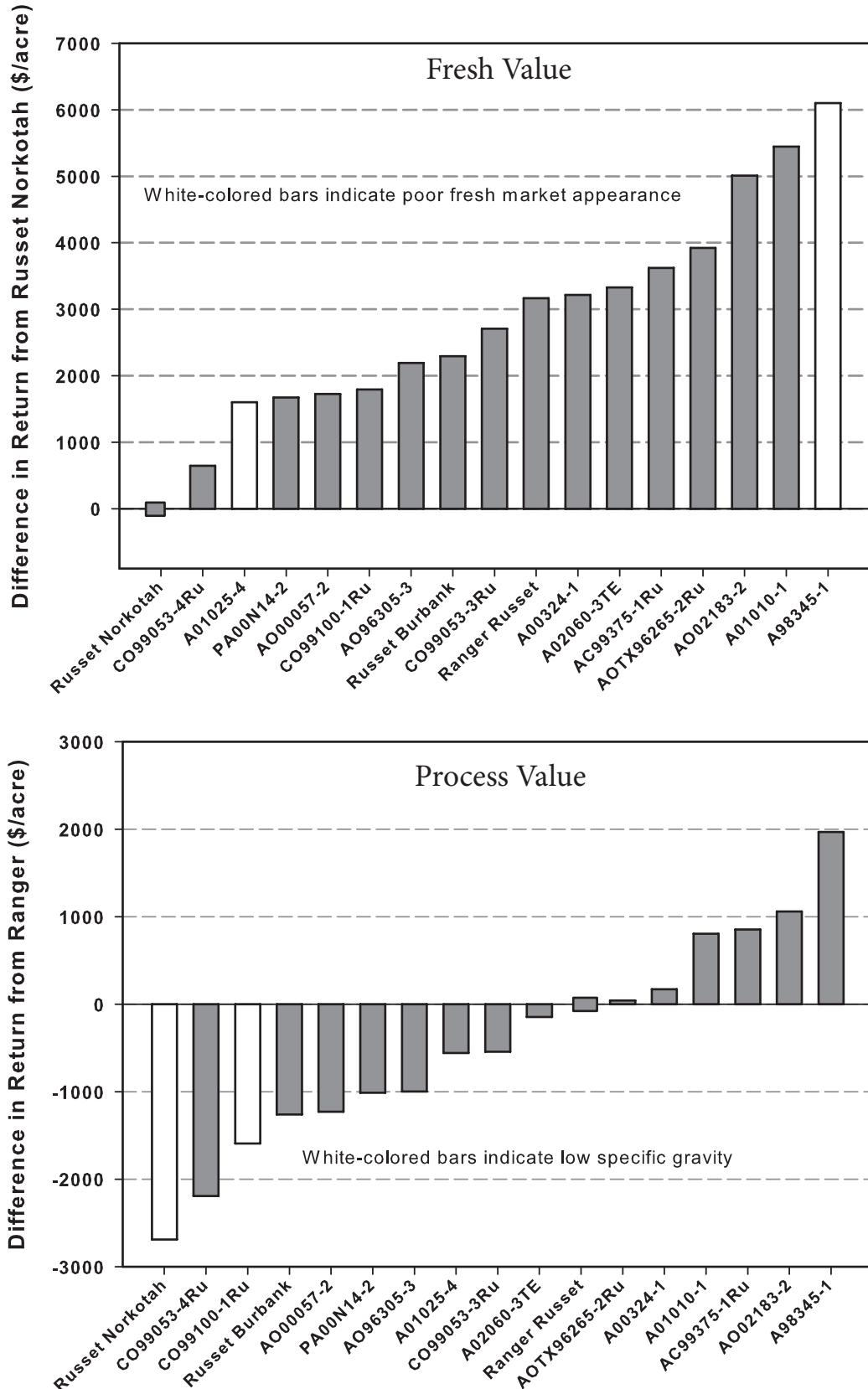
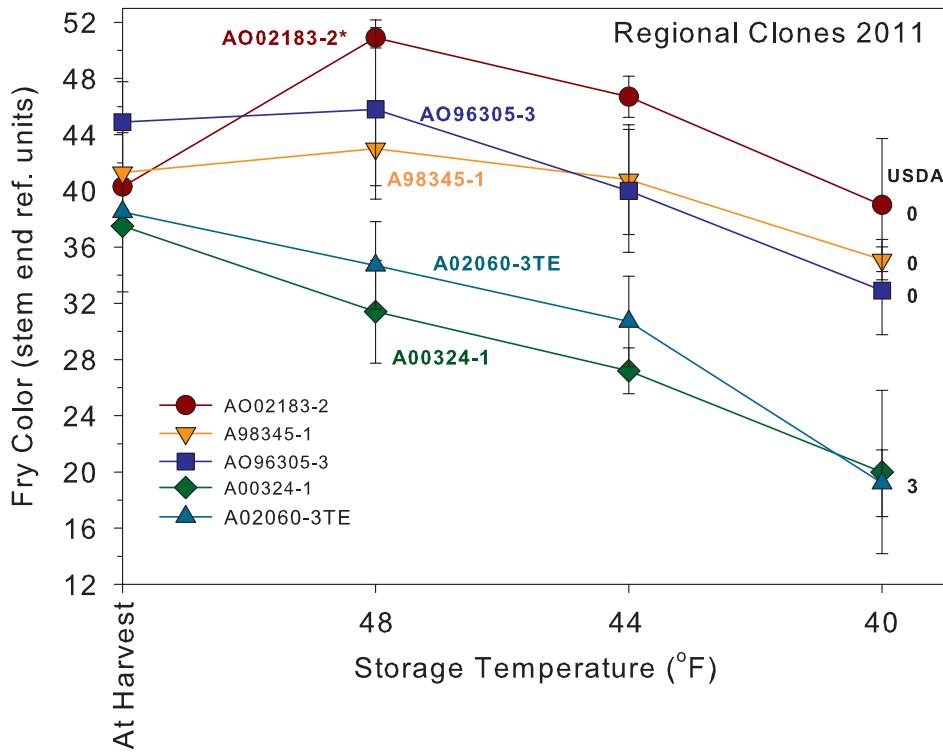
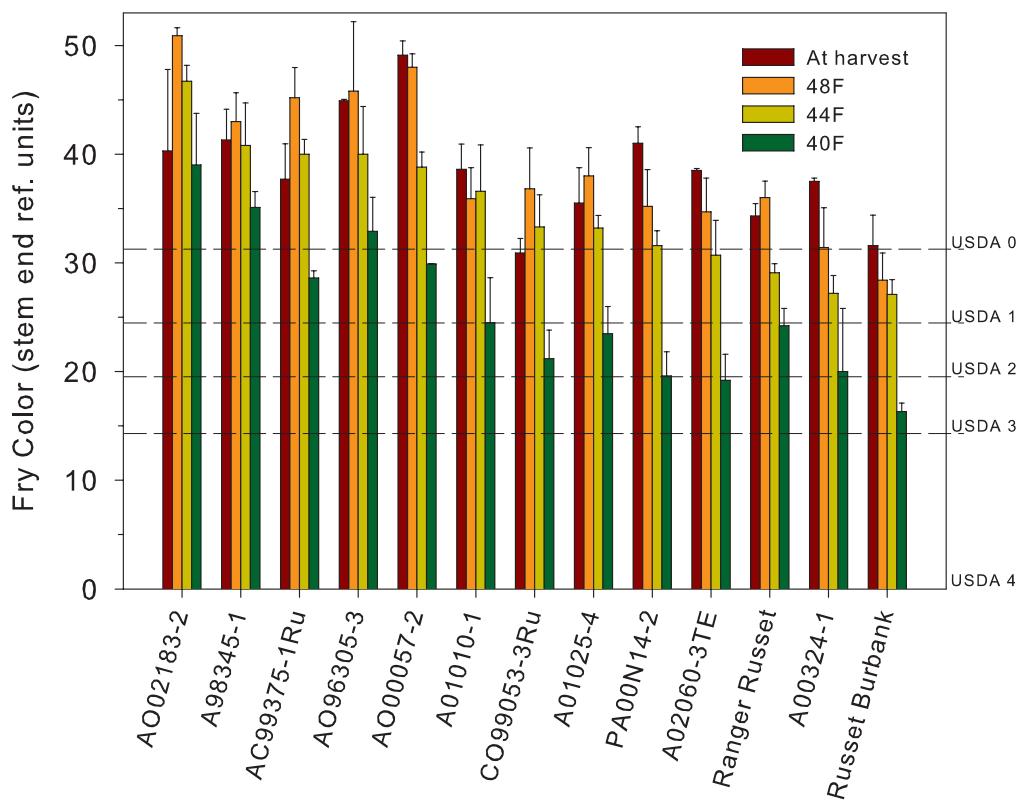


Figure 1 (Top). Difference in gross return per acre (Fresh Market) from Russet Norkotah calculated by subtracting the gross return of Russet Norkotah from the gross return of the particular entry. Entries with the white-colored bars may not appeal to fresh market consumers due to the undesirable shape or appearance.

Figure 2 (Bottom). Difference in gross return per acre (Process Market) from Ranger Russet calculated by subtracting the gross return of Ranger Russet from the gross return of the particular entry. Entries with the white-colored bars would be penalized (under the mock contract parameters) due to a specific gravity less than 1.075.

2011 Late Harvest Regional Trial

Regional Clones 2011



Top: At-harvest and after-storage French fry colors (stem end) of clones in the Regional Trial. Tubers were stored for 60 days at 48, 44 and 40°F. The clones are ranked from best to worst based on fry color of the 44°F-stored tubers. High reflectance values indicate light colored fries.

Bottom: Line graph depicting the effects of storage temperature on the change in French fry processing quality (stem end fry color) of the best (AO2183-2, AO96305-3, A98345-1) and worst (A02060-3TE and A00324-1) performing clones in the Regional Trial. *Indicates similar performance of the clones last year.

Entries Retained from the 2010 Trials Currently in the Regional Trial

Harvested fall of 2010

Held at 48°F until December 20

Stored at 44°F until analysis

Three clones were advanced from the Tri-State Trial into the 2011 Regional Trial (A01025-4, A02060-3TE and AO02183-2). Eight clones were retained in the Regional Trial. When averaged across states AO96305-3 and AO02183-2 produced the lightest fries. A01010-1 had the shortest dormancy with the longest sprouts, while CO99053-3Ru had the shortest average sprout length.

Clone	PHOTOVOLT READING					USDA COLOR	% REDUCING SUGAR			Sprouting	
	stem	bud	avg	DIFF			stem	bud	avg	percent	length (in.)
Washington											
1 Ranger Russet	30.8	45.2	38.0	14.4	0	1.3	0.6	0.9	100	5	
2 Russet Burbank	27.3	39.5	33.4	12.1	1	1.7	0.8	1.2	100	5	
3 A98345-1	35.4	42.5	39.0	8.7	0	1.0	0.6	0.8	100	6	
4 A00324-1	27.9	36.5	32.2	8.6	1	1.6	0.9	1.3	100	6	
5 A01010-1	33.3	50.6	42.0	17.3	0	1.1	0.5	0.8	100	6	
6 A01025-4 §	25.0	33.8	29.4	10.4	1	2.0	1.1	1.5	100	3.5	
7 A02060-3TE §	31.4	39.9	35.6	9.4	0	1.3	0.7	1.0	100	4	
8 AC99375-1Ru	44.4	46.0	45.2	5.1	0	0.6	0.5	0.6	100	12	
9 AO00057-2	40.9	52.1	46.5	11.3	0	0.7	0.5	0.6	100	3	
10 AO02183-2 §	49.4	48.6	49.0	2.2	0	0.5	0.5	0.5	100	5	
11 AO96305-3	49.3	54.9	52.1	6.1	0	0.5	0.5	0.5	100	5	
12 CO99053-3Ru	32.0	41.9	36.9	10.5	0	1.2	0.7	0.9	100	4	
13 PA00N14-2	36.6	47.4	42.0	11.3	0	0.9	0.5	0.7	100	4	
Average											
Idaho											
1 Ranger Russet	28.4	26.5	27.4	5.2	1	1.5	1.8	1.7	100	5	
2 Russet Burbank	25.6	39.2	32.4	13.6	1	1.9	0.8	1.3	100	2.5	
3 A98345-1	45.6	44.2	44.9	3.1	0	0.6	0.6	0.6	100	5	
4 A00324-1	26.5	29.5	28.0	4.8	1	1.8	1.4	1.6	100	3.5	
5 A01010-1	40.2	42.5	41.3	4.7	0	0.7	0.6	0.7	100	14	
6 A01025-4 §	36.1	39.0	37.5	3.8	0	0.9	0.8	0.9	100	3	
7 A02060-3TE §	No Sample					No Sample			No Sample		
8 AC99375-1Ru	37.7	40.6	39.2	4.1	0	0.8	0.7	0.8	100	2.5	
9 AO00057-2	35.2	41.0	38.1	7.8	0	1.0	0.7	0.8	100	6	
10 AO02183-2 §	44.7	40.5	42.6	5.2	0	0.6	0.7	0.6	100	5	
11 AO96305-3	43.9	48.9	46.4	10.3	0	0.6	0.5	0.6	100	3	
12 CO99053-3Ru	29.5	26.4	27.9	7.1	1	1.4	1.8	1.6	100	3	
13 PA00N14-2	33.6	43.7	38.6	10.1	0	1.1	0.6	0.8	100	4	
Average											
Oregon											
1 Ranger Russet	21.1	35.7	28.4	14.6	2	2.5	1.0	1.7	100	6	
2 Russet Burbank	15.5	38.8	27.2	23.3	3	3.5	0.8	2.1	100	7	
3 A98345-1	30.1	38.8	34.4	9.3	1	1.4	0.8	1.1	100	8	
4 A00324-1	19.3	29.6	24.5	10.4	3	2.8	1.4	2.1	100	4	
5 A01010-1	26.3	42.5	34.4	16.2	1	1.8	0.6	1.2	100	10	
6 A01025-4 §	21.1	35.4	28.3	14.3	2	2.5	1.0	1.7	100	6	
7 A02060-3TE §	24.0	34.3	29.1	11.1	2	2.1	1.0	1.6	100	8	
8 AC99375-1Ru	31.6	43.3	37.4	12.2	0	1.2	0.6	0.9	100	13	
9 AO00057-2	28.5	45.1	36.8	16.6	1	1.5	0.6	1.1	100	4	
10 AO02183-2 §	48.7	47.7	48.2	4.4	0	0.5	0.5	0.5	100	3.5	
11 AO96305-3	34.9	51.9	43.4	17.0	0	1.0	0.5	0.8	100	5	
12 CO99053-3Ru	22.5	32.4	27.4	10.7	2	2.3	1.2	1.7	100	3	
13 PA00N14-2	24.6	41.5	33.0	16.9	1	2.0	0.7	1.3	100	4	
Average											
LSD 0.05											
26.8	39.8	33.3	13.6	1		1.9	0.8	1.4	100		

§ Advanced from 2010 Tri-State Trial

Date test performed:

Washington	April 27	April 28
Idaho		
Oregon		April 29

2011 Regional Red and Specialty Trial

Summaries

ENTRY	TOTAL YIELD			US # 1's*	US # 2's*	Culls*	EXTERNAL DEFECTS (%)			SPECIFIC GRAVITY
	CWT/A	STATS**	Tons/A	> 0 oz -----% of Total Yield-----	> 0 oz	> 0 oz	Knobs	Malformed	Growth Cracks	
Red Skin/White Flesh										
Dark Red Norland	561	CD	27.4	99 0	0 1	1	0	0	1	0
Red LaSoda	704	A	34.4	99 1	1 0	0	0	0	0	0
ATTX01178-1R	522	DE	25.5	94 4	4 3	3	0	0	1	2
ATTX98453-6R	452	EF	22.1	99 0	0 0	0	0	0	0	0
CO00291-5R	133	H	6.5	100 0	0 0	0	0	0	0	0
CO99076-6R	562	CD	27.5	98 1	1 1	1	0	0	1	0
CO99256-2R	512	DE	25.0	97 3	3 1	1	0	0	0	0
OR04131-2	358	G	17.5	98 2	2 0	0	0	0	0	0
Chieftain	657	AB	32.1	99 1	1 0	0	0	0	0	0
Red-Purple/Yellow Flesh										
A99331-2RY	437	EFG	21.3	98 0	0 2	2	0	0	0	2
ATTX98510-1R/Y	636	ABC	31.1	99 0	0 1	1	0	0	0	0
CO01399-10P/Y	664	A	32.4	97 3	3 1	1	0	0	1	0
COTX01403-4R/Y	569	BCD	27.8	98 1	1 2	2	0	1	0	0
Purple Skin/Purple Flesh										
Purple Majesty	484	DE	23.7	100 0	0 0	0	0	0	0	0
POR05PG56-1	504	DE	24.7	99 0	0 0	0	0	0	0	0
Yellow Flesh										
Yukon Gold	394	FG	19.2	97 2	2 1	1	0	0	1	0
A99433-5Y	545	D	26.7	98 1	1 1	1	0	0	1	0
ATC00293 -1W/Y	542	D	26.5	97 1	1 2	2	0	0	1	0
OR04036-5	496	DE	24.2	99 0	0 1	1	0	0	1	0

ENTRY	US # 1 YIELD							INTERNAL DEFECTS (%)			
	CWT/A	STATS**	Tons/A	0-2 oz*	2-4 oz*	4-6 oz*	6-10 oz*	> 10 oz*	(6-10 oz tubers)	% HH	% BC
Red Skin/White Flesh											
Dark Red Norland	555	CD	27.1	0 9	9 19	19 43	43 28	28	0 0	0 61	0 0
Red LaSoda	699	A	34.2	2 9	9 18	18 44	44 27	27	0 0	0 0	0 0
ATTX01178-1R	488	CDE	23.9	1 14	14 24	24 43	43 18	18	0 0	0 0	0 0
ATTX98453-6R	449	DEF	21.9	2 15	15 16	16 45	45 23	23	0 0	0 0	0 0
CO00291-5R	133	H	6.5	16 65	65 17	17 2	2 0	0	0 0	0 0	0 0
CO99076-6R	553	CD	27.0	2 15	15 20	20 41	41 22	22	7 0	0 0	0 0
CO99256-2R	495	CDE	24.2	6 36	36 34	34 20	20 4	4	0 0	0 7	0 0
OR04131-2	350	G	17.1	11 48	48 27	27 13	13 1	1	0 0	0 0	0 0
Chieftain	648	A	31.7	1 15	15 31	31 40	40 12	12	0 0	0 0	7 0
Red-Purple/Yellow Flesh											
A99331-2RY	429	EFG	21.0	6 33	33 33	33 21	21 6	6	0 0	0 0	0 0
ATTX98510-1R/Y	632	AB	30.9	3 17	17 20	20 36	36 24	24	13 0	10 0	0 0
CO01399-10P/Y	642	A	31.4	4 22	22 28	28 35	35 10	10	0 0	0 0	8 0
COTX01403-4R/Y	556	BC	27.2	1 6	6 14	14 27	27 52	52	0 0	0 0	0 0
Purple Skin/Purple Flesh											
Purple Majesty	482	CDE	23.6	8 45	45 32	32 14	14 2	2	0 0	0 0	0 0
POR05PG56-1	502	CDE	24.5	14 57	57 23	23 5	5 1	1	0 0	0 0	0 0
Yellow Flesh											
Yukon Gold	381	FG	18.6	1 6	6 12	12 37	37 44	44	0 0	0 0	0 0
A99433-5Y	532	CD	26.0	3 18	18 24	24 33	33 22	22	0 0	0 0	0 0
ATC00293 -1W/Y	529	CD	25.8	2 22	22 32	32 36	36 7	7	0 0	0 0	0 0
OR04036-5	490	CDE	24.0	1 15	15 27	27 48	48 10	10	0 0	0 0	0 0

* Percent values may not total 100% due to rounding

**Numbers followed by the same letter are not significantly different at the 5% level using Tukey's HSD Test

ENTRY	Skin Set	Tuber Shape	50 Day Stand	Stems per Plant	Average Tuber		Size Uniformity	Shape Uniformity	Bruise (%)		Length to Width Ratio
	1 = Poor 5 = Good	1 = Round 5 = Long	% Emerged	Above Ground	Weight Ounces	Number Tubers/Plant	1 = Poor 5 = Good	1 = Poor 5 = Good	(6-10 oz tubers) Blackspot Shatter	1 = Round 2 = Oblong	
Red Skin/White Flesh											
Dark Red Norland	4	2	86	2.6	8.6	6.6	3	3	4	50	1.2
Red LaSoda	3	1	100	2.2	8.2	7.5	3	2	18	68	1.1
ATTX01178-1R	2	1	94	2.0	7.4	6.6	3	2	14	41	1.0
ATTX98453-6R	4	1	80	2.3	7.6	6.7	3	4	20	80	1.1
CO00291-5R	4	1	88	2.3	3.3	3.9	4	4	0	5	1.0
CO99076-6R	4	1	94	2.4	7.2	7.4	3	3	21	66	1.1
CO99256-2R	3	1	97	2.5	4.9	9.4	4	4	0	54	1.2
OR04131-2	4	1	64	2.7	4.1	11.9	4	4	25	70	1.1
Chieftain	4	1	97	2.5	6.9	8.4	4	3	4	79	1.2
Red-Purple/Yellow Flesh											
A99331-2RY	4	1	92	2.4	4.8	8.5	4	3	7	22	1.1
ATTX98510-1R/Y	3	1	98	3.0	6.8	8.2	2	2	3	43	1.0
CO01399-10P/Y	4	1	97	3.1	6.0	9.7	4	4	0	42	1.2
COTX01403-4R/Y	4	1	79	2.5	10.1	6.2	2	2	19	48	1.3
Purple Skin/Purple Flesh											
Purple Majesty	5	2	100	2.8	4.4	9.6	4	4	0	23	1.5
POR05PG56-1	4	3	97	3.0	3.6	12.4	4	4	0	33	1.4
Yellow Flesh											
Yukon Gold	5	1	67	2.3	9.6	5.6	3	4	3	38	1.3
A99433-5Y	4	1	91	2.1	6.8	7.7	3	4	13	43	1.3
ATC00293-1W/Y	4	2	100	1.6	6.1	7.5	3	3	0	16	1.4
OR04036-5	4	2	94	2.5	7.1	6.5	3	4	31	52	1.3

Postharvest Evaluation

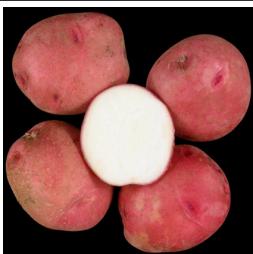
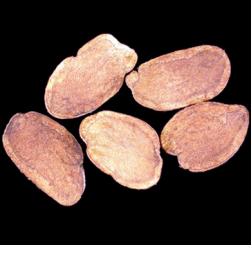
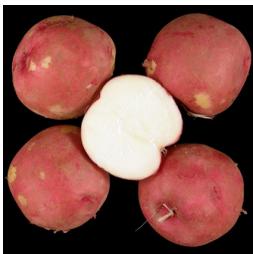
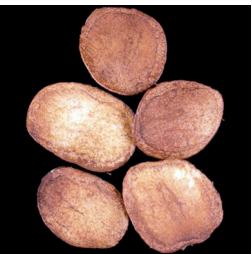
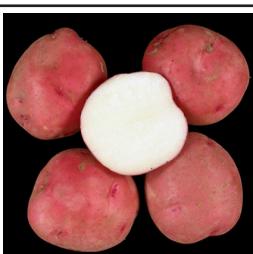
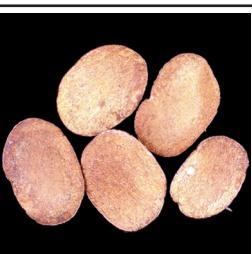
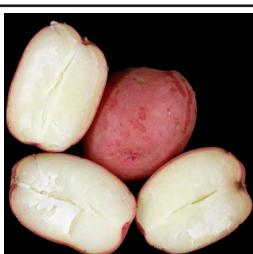
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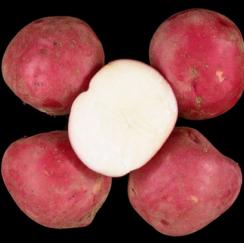
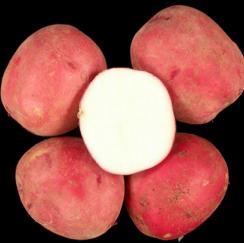
(3/8 x 1 1/8" slices)

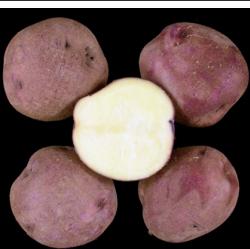
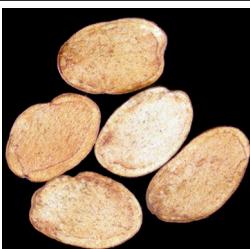
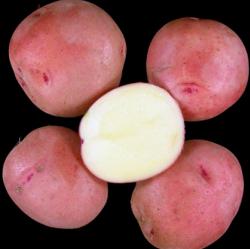
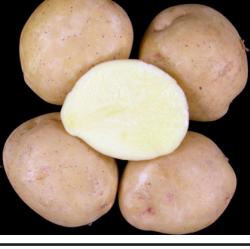
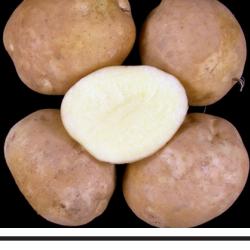
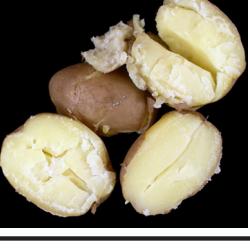
(Chips)

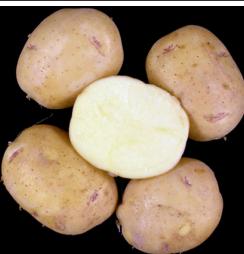
Clone	Raw				After Frying				Av of 7 raters	SFA
	Stem	Bud	Average	Difference	Stem	Bud	Average	Difference		
1 Dk Red Norland	58.7	56.8	57.7	2.1	26.7	31.3	29.0	7.2	1	4.1
2 Red LaSoda	59.5	58.6	59.1	2.0	21.2	24.5	22.9	5.0	2	5.0
3 ATTX01178-1R	54.2	56.2	55.2	2.1	22.2	30.5	26.4	8.5	2	4.9
4 ATTX98453-6R	56.5	56.8	56.7	0.9	17.0	22.0	19.5	5.0	3	5.0
5 CO00291-5R	52.6	54.0	53.3	2.2	23.6	31.4	27.5	7.8	2	4.1
6 CO99076-6R	56.7	56.4	56.5	1.1	28.5	37.4	32.9	8.9	1	4.1
7 CO99256-2R	56.4	56.8	56.6	1.1	27.8	32.2	30.0	5.4	1	4.9
8 OR04131-2	57.6	57.2	57.4	1.3	37.2	41.7	39.5	4.8	0	3.9
9 A99331-2RY	53.4	54.6	54.0	1.4	35.6	39.3	37.5	4.1	0	3.3
10 ATTX98510-1R/Y	54.9	57.1	56.0	2.1	24.4	26.3	25.3	3.2	2	4.7
11 CO01399-10P/Y	55.1	55.0	55.0	1.0	33.6	33.1	33.4	2.5	0	3.3
12 COTX01403-4R/Y	53.0	52.5	52.8	1.2	31.4	31.2	31.3	2.1	0	4.3
13 Purple Majesty	No Sample				No Sample				No Sample	
14 POR05PG56-1	6.6	7.1	6.9	1.6	13.8	13.6	13.7	2.6	4	3.7
15 Yukon Gold	55.3	56.6	55.9	1.4	26.3	37.0	31.6	11.2	1	4.3
16 A99433-5Y	56.8	56.6	56.7	1.2	34.7	38.0	36.4	6.3	0	3.7
17 ATC00293-1W/Y	52.6	53.0	52.8	1.6	24.7	30.3	27.5	7.2	1	4.7
18 OR04036-5	56.1	57.7	56.9	2.0	26.7	36.3	31.5	9.6	1	3.7
LSD 0.05 *			1.4	1.0			3.8	3.2		
Average	52.7	53.1	52.9	1.5	26.8	31.5	29.2	6.0	1	4.2

*Differences between clones equal to or greater than the LSD 0.05 are significant. Entries with purple (POR05PG56-1) flesh were not included in the ANOVA. All other entries have white or yellow flesh. SFA 1 (lightest) to 5 (darkest).

Tubers	Chips	Baked	Boiled	Microwaved
Dark Red Norland				
				
Red LaSoda				
				
ATTX01178-1R				
				
ATTX98453-6R				
				
CO00291-5R Visual Standout (nice color, skin, size distribution, & shape)				
				

Tubers	Chips	Baked	Boiled	Microwaved
CO99076-6R	Visual Standout (nice color, skin, size distribution, & shape)			
				
CO99256-2R	Visual Standout (nice color, skin, size distribution, & shape)			
				
OR04131-2	Visual Standout (nice color, skin, size distribution, & shape)			
				
A99331-2RY				
				
ATTX98510-1R/Y	Suggested Discard			
				

Tubers	Chips	Baked	Boiled	Microwaved
CO01399-10P/Y				
				
COTX01403-4R/Y				
				
POR05PG56-1	Visual Standout (nice color, skin, size distribution, & shape)			
				
Yukon Gold				
				
A99433-5Y				
				

Tubers	Chips	Baked	Boiled	Microwaved
ATC00293-1W/Y				
				
OR04036-5				
				

Postharvest Evaluation

Clone	Boiled (25 max)	Baked (25 max)	Microwaved (25 max)	Total (75 max)
16 A99433-5Y	20.7	21.8	16.5	59.0
3 ATTX01178-1R	20.2	18.0	19.8	58.0
15 Yukon Gold	19.3	20.2	18.0	57.5
6 CO99076-6R	18.4	20.2	17.8	56.4
12 COTX01403-4R/Y	17.0	19.8	18.2	55.0
11 CO01399-10P/Y	19.0	19.3	16.5	54.8
9 A99331-2RY	18.7	17.7	18.2	54.5
8 OR04131-2	17.8	16.4	20.0	54.2
2 Red LaSoda	18.0	18.2	17.8	54.0
14 POR05PG56-1	18.3	18.5	16.8	53.7
1 Dk Red Norland	16.8	18.7	17.5	53.0
17 ATC00293 -1W/Y	17.3	18.5	16.7	52.5
7 CO99256-2R	18.2	17.2	16.8	52.2
5 CO00291-5R	17.8	15.6	18.5	51.9
10 ATTX98510-1R/Y	19.0	16.0	16.8	51.8
4 ATTX98453-6R	17.9	17.0	16.7	51.5
18 OR04036-5	16.5	15.7	17.8	50.0
13 Purple Majesty	15.0	18.0	N/A	33.0

French Fried: Sept. 6 & 7

Chipped: Sept. 6 & 7

Boiled: Sept. 1

Microwaved: Sept. 2

Baked: Aug. 30

Index of Clones and Cultivars

Early Harvest Tri-State Trial 8-9

A02062-1TE	A98196-5	Russet Burbank
A02138-2	A99029-3E	Russet Norkotah
A02144-2	AO01114-4	
A02507-2LB	AO02060-3	
A03131-4TE	OR05039-4	
A03158-2TE	Ranger Russet	

Late Harvest Tri-State Trial 10-17

A02062-1TE	A98196-5	Russet Burbank
A02138-2	A99029-3E	Russet Norkotah
A02144-2	AO01114-4	
A02507-2LB	AO02060-3	
A03131-4TE	OR05039-4	
A03158-2TE	Ranger Russet	

Early Harvest Regional Trial 18-21

A00324-1	AO02183-2	Ranger Russet
A01010-1	AO96305-3	Russet Burbank
A01025-4	AOTX96265-2Ru	Russet Norkotah
A02060-3TE	CO99053-3Ru	
A98345-1	CO99053-4Ru	
AC99375-1Ru	CO99100-1Ru	
AO00057-2	PA00N14-2	

Late Harvest Regional Trial 22-33

A00324-1	AO02183-2	Ranger Russet
A01010-1	AO96305-3	Russet Burbank
A01025-4	AOTX96265-2Ru	Russet Norkotah
A02060-3TE	CO99053-3Ru	
A98345-1	CO99053-4Ru	
AC99375-1Ru	CO99100-1Ru	
AO00057-2	PA00N14-2	

Regional Red and Specialty Trial 34-39

A99331-2RY	CO01399-10P/Y	Purple Majesty
A99433-5Y	CO99076-6R	Red LaSoda
ATC00293 -1W/Y	CO99256-2R	Yukon Gold
ATTX01178-1R	COTX01403-4R/Y	
ATTX98453-6R	Dark Red Norland	
ATTX98510-1R/Y	OR04036-5	
Chieftain	OR04131-2	
CO00291-5R	POR05PG56-1	