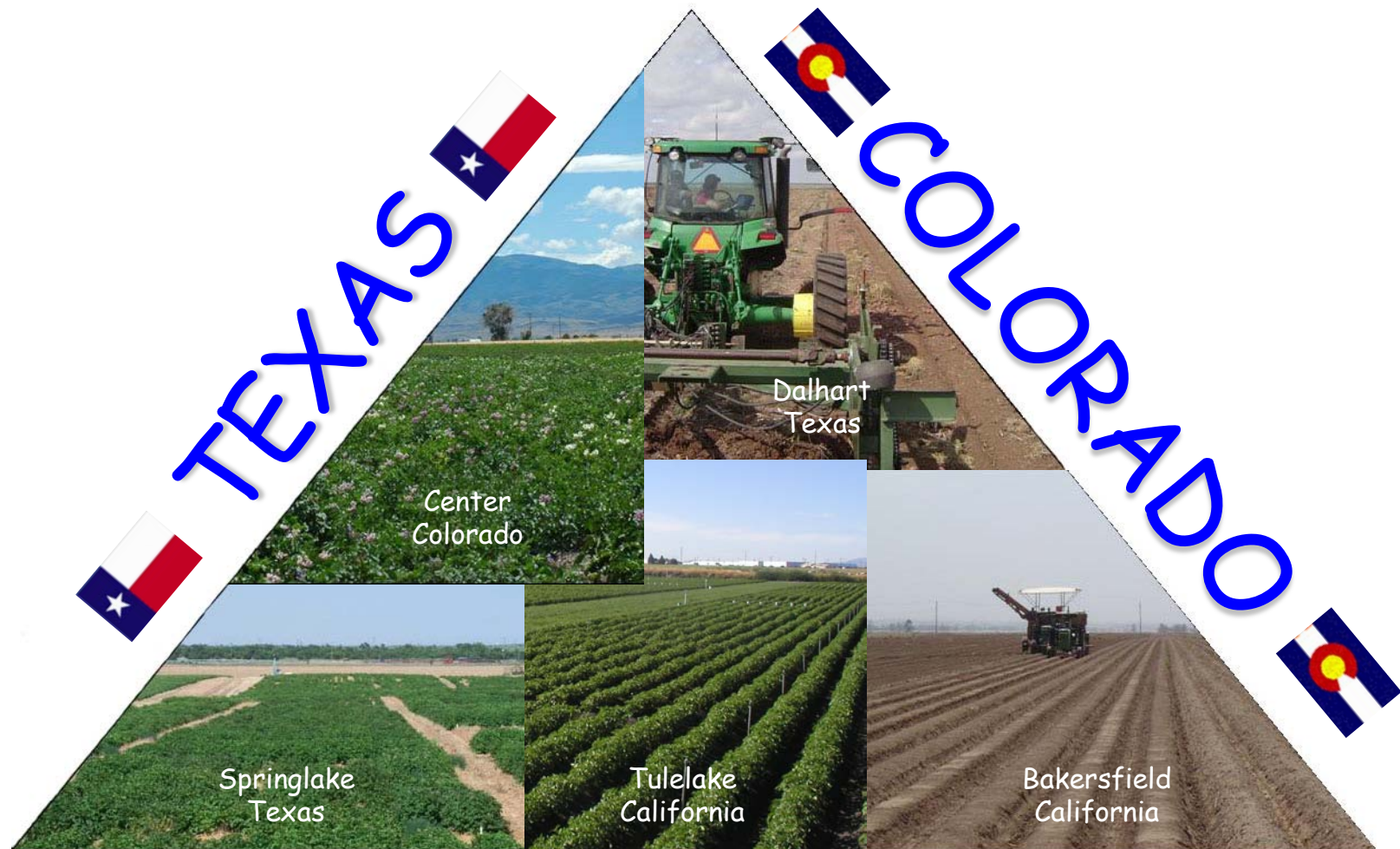


2006 Southwestern Regional Potato Variety Trial Report



CALIFORNIA



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Description of Clones - 2006 Southwestern Regional Trial

Entry #	Clone/Cultivar	Parents		Flower Color	Vine Size	Maturity	Tuber Shape	Skin Type	Entered By	Use	Source	2006 Status ¹
		Female	Male									
Specialty Trial												
1	All Blue	Unknown	Unknown	Blue	Large	Medium	Oblong	Purple	Check	Spec	CO	***
2	Yukon Gold	Norgleam	W5279-4	Pink	Medium	Early	Oval	White	Check	Spec	CO	***
3	ATC98444-1R/Y	A83350-9R	T48YF	Purple	Large	Late	Oval	Red	CO	Spec	CO	1
4	ATC98495-1W/Y	P94A2-4Y	A89655-5DY	Red-Purple	Medium	Medium	Round	White	CO	Spec/Fry	CO	1
5	ATC98509-1R/Y	T48YF	A92657-1R	Red-Purple	Large	Medium	Oblong	Red	CO	Spec	CO	1
6	ATTX961014-1R/Y	A90601-2RDY	MAZAMA	Lavender	Medium	Early	Oblong	Red	TX	Spec	TX	1
7	ATTX98500-2P/Y	P94A2-4Y	GRANOLA	Purple	Large	Late	Round	Purple	TX	Spec	TX	1
8	CO97215-2P/P	CO94163-1	CO94183-1	Purple	Large	Medium	Oval	Purple	CO	Spec	CO	1
9	CO97222-1R/R	CO94170-1	CO94183-1	Purple	Medium	Medium	Oblong	Red	CO	Spec	CO	1
10	CO97227-2P/PW	CO94183-1	CO94215-1	Purple	Large	Medium	Oblong	Purple	CO	Spec/Fry	CO	1
11	CO97274-2W/Y	Agria	CO94161-2	Purple	Medium	Early	Oblong	White	CO	Spec/Fry	CO	1
Russet Trial												
12	Russet Norkotah	ND9687-5RU	ND9526-4RU	White	Small	Early	Long	Russet	Check	Fresh	CO/TX for CA	***
13	Russet Norkotah 3	ND9687-5RU	ND9526-4RU	White	Med-Large	Medium	Long	Russet	Check	Fresh	CO	***
14	Russet Norkotah 278	ND9687-5RU	ND9526-4RU	White	Med-Large	Early-Med	Long	Russet	Check	Fresh	TX	***
15	AOTX95265-1RU	A89216-9	A86102-6	White	Large	Medium	Ob-Long	Russet	TX	Fresh	TX	1
16	AOTX95265-3RU	A89216-9	A86102-6	White	Medium	Medium	Ob-Long	Russet	TX	Fresh	TX	1
17	AOTX95295-3RU	A89804-7	Ranger Russet	White	Medium	Early	Long	Russet	TX	Fresh	TX	1
18	AOTX98137-1RU	A8670-7	A93310-1	White	Med-Large	Early	Oblong	Russet	TX	Fresh	TX	2
19	ATX9117-1RU	A8519-4	A84727-62	White	Medium	Early	Ob-Long	Russet	TX	Fresh	TX	1
20	ATX9130-1RU	A8611-10	A85103-3	White	Medium	Medium	Ob-Long	Russet	TX	Fresh	TX	1
21	ATX9202-3RU	A8343-12	A8495-1	White	Large	Medium	Ob-Long	Russet	TX	Fresh	TX	1
22	ATX97147-4RU	A79180-10	A88236-6	White	Medium	Early-Med	Long	Russet	TX	Fresh	TX	1
23	CO97087-2RU	CO87009-4	W1005	White	Medium	Medium	Oblong	Russet	CO	Fry	CO	1
24	CO97090-4RU	CO89036-10	AC91579-4	White	Med-Small	Early-Med	Oblong	Russet	CO	Fresh	CO	1
25	CO97138-3RU	NDO2904-7	CO90052-1	White	Med-Large	Medium	Oblong	Russet	CO	Fresh	CO	1
26	CO97138-7RU	NDO2904-7	CO90052-1	White	Medium	Medium	Oblong	Russet	CO	Fresh	CO	1

Entry #	Clone/Cultivar	Parents		Flower Color	Vine Size	Maturity	Tuber Shape	Skin Type	Entered By	Use	Source	2006 Status ¹
		Female	Male									
Red Trial												
27	Norland (Dark Red)	RedKote	ND626	Red-purple	Small	Early	Oval	Red	Check	Fresh	CO	***
28	Red LaSoda	Triumph	Katahdin	Red-purple	Medium	Med	Oval	Red	Check	Fresh	CO/TX OWN	***
29	ATTX98453-6R	A93490-1R	A91846-5R	Lavender	Med-Large	Early-Med	Oblong	Red	TX	Fresh	TX	1
30	CO98012-5R	A79543-4R	AC91844-2	Purple	Medium	Medium	Round	Red	CO	Fresh	CO	1
31	COTX94218-1R	Red Ruby	Red Gold	Purple	Large	Medium	Round	Red	TX	Fresh	TX	1
32	COTX00104-7R	ND3574-5R	CO86218-2	Lavender	Medium	Medium	Oblong	Red	TX	Fresh	TX	1
33	NDTX4784-7R	ND3574-5R	ND2050-1R	Lavender	Medium	Med-Late	Round	Red	TX	Fresh	TX	1
34	NDTX4828-2R	ND3877-2R	NorDonna	Lavender	Large	Medium	Oblong	Red	TX	Fresh	TX	1
Chip Trial												
35	Atlantic	Wauseon	B5141-6	Red-Purple	Medium	Medium	Round	Buff	Check	Chip	CO	***
36	Chipeta	WNC612-13	Wischip	Purple	Large	Med-Late	Oval	White	Check	Chip	CO	***
37	ATDC9801-3P	Ivory Crisp	A86SXD6-7	Purple	Med-Large	Medium	Oval	Purple	CO	Chip	CO	1
38	CO98277-4W	CO92060-1	NDA2031-2	Red-Purple	Med-Small	Early	Oval	White	CO	Chip	CO	1
39	TX1475-3W	TX1229-6W	AC80545-1	?	?	Early-Med	Oblong	White	TX	Chip	TX	1

¹years in trial

Table 1. Locations, Cooperators, and Cultural Information

Locations	Cooperators	Irrigation	Trial	Fertilization (lb/A)	Harvest method	Dates			Days to Vine Kill
						Plant	Vine Kill	Harvest	
1. Kern Co. California (KRN)	J. Nunez	Sprinkler	Specialty		Machine	2/14/06		6/12/06	118
			Russet		Machine	2/14/06		6/12/06	118
			Red		Machine	2/14/06		6/12/06	118
			Chip		Machine	2/14/06		6/12/06	118
2. Tulelake California (TUL)	H. Carlson D. Kirby	Solid-set sprinkler	Specialty	260-240-0-110	Machine	5/12/06	9/11/06	10/9/06	119
			Russet	260-240-0-110	Machine	5/13/06	9/18/06	10/11/06	125
			Red	260-240-0-110	Machine	5/12/06	9/18/06	10/9/06	126
			Chip	260-240-0-110	Machine	5/13/06	9/11/06	10/11/06	118
3. San Luis Valley Colorado (SLV)	D. Holm F. Goktepe	Pivot	Specialty	120-60-40-25-2.5Zn	Machine	5/12/06	9/4/06	9/25/06	112
			Russet	120-60-40-25-2.5Zn	Machine	5/12/06	9/4/06	9/25/06	112
			Red	120-60-40-25-2.5Zn	Machine	5/12/06	9/4/06	9/25/06	112
			Chip	120-60-40-25-2.5Zn	Machine	5/12/06	9/4/06	9/25/06	112
4. Springlake Texas (SPR)	C. Miller, J. Koym D. Scheuring	Pivot	Specialty	240-25-25	Machine/Hand	3/30/06	7/11/06	7/16/06	101
			Russet	240-25-25	Machine/Hand	3/29/06	7/28/06	7/13/06	119
			Red	130-25-25	Machine/Hand	3/29/06	7/11/06	8/10/06	102
5. Dalhart Texas (DAL)	C. Miller, J. Koym D. Scheuring	Pivot	Chip	178-0-0	Machine/Hand	4/5/06	7/26/06	8/28/06	111

Table 2. Plot Information, Soil Type, Fungicides, and Insecticides

Item	California		Colorado	Texas	
	KRN	TUL	SLV	SPR	DAL
Plot Information:					
Row/plot	1	2	1	2	2
Length of plot (ft)	20'	*	25'	10' 5"	7'
Hill spacing (in)	9"	**	12"	9"	12"
Row spacing (in)	32"	36"	34"	36"	30"
Hills/plot	27	***	25"	14	7
Number of reps	4	4	4	4	4
Soil Type:					
Fine sand					
Fine sandy loam				X	X
Loamy fine sand					
Sandy loam			X		
Silt loam					
Organic - 8%					
Mucky silty clay loam		X			
Fungicides:					
Bravo WS			X		
Bravo		X			
Dithane F-45		X			X
Echo					X
Endura					X
Headline					X
Maxim		X			
Polyram 80 DF					
Quadris			X		
TOPSMZ				X	X
Scala					X
Insecticides:					
Admire				X	X
Aphoil,					X
Dimethoate					X
Leverage 2.7			X		
Monitor 4		X			
Oberon					X
Spintor					X

* Spec 23.5ft Russ 24ft Red 23.5ft Chip 24ft

** Spec 9" Russ 11" Red 9" Chip 9"

*** Spec 62 Russ 52 Red 62 Chip 62

Table 3. Herbicides, Fumigants, Vine Killing, Environmental Factors, and Comments

Item	California		Colorado	Texas	
	KRN	TUL	SLV	SPR	DAL
Herbicides:					
Arrow					X
Brawl					X
Dual Magnum			X	X	
Intensity					X
Matrix		X		X	
Pendant					X
Roundup				X	
Sencor DF		X			X
Spartan					X
Superb COC,					X
Treflan				X	
Vine Killing:					
Diquat		X			
Sulfuric Acid			X	X	X
Mechanical				X	X
Environmental Factors:					
Cool/Wet Spring					
Cool and Dry Summer					
Severe Frost					
Favorable		X			
Hot Summer					
Above Av. Prec.					
Comments:					
Heavy Psyllid Pressure					
Poor Vine Kill					
Virus					
Dry/Cloddy Harv					
Wet Harvest					

Table 4. Percent Stand and Stems/Hill for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	Percent Stand					Mean	Stems per Hill			
	California		Colorado ³	Texas			Colorado	Texas		Mean
	KRN ¹	TUL ²	SLV	SPR ⁴	DAL ⁵		SLV	SPR	DAL	
Specialty Trial										
1 All Blue		86	99	100		95	3.1	2.2		2.6
2 Yukon Gold	56	77	98	100		92	2.1	1.4		1.7
3 ATC98444-1R/Y	79	80	93	100		91	2.8	2.0		2.4
4 ATC98495-1W/Y	90	44	98	96		79	3.7	2.1		2.9
5 ATC98509-1R/Y	94	78	90	100		89	2.8	1.8		2.3
6 ATTX961014-1R/Y	40	65	93	100		86	2.8	1.7		2.2
7 ATTX98500-2P/Y	76	77	96	88		87	2.6	1.7		2.1
8 CO97215-2P/P	84	74	87	100		87	2.4	2.1		2.3
9 CO97222-1R/R	47	79	94	100		91	2.9	2.1		2.5
10 CO97227-2P/PW	58	81	96	96		91	4.0	2.3		3.1
11 CO97274-2W/Y	94	82	95	100		92	3.4	1.8		2.6
Russet Trial										
12 Russet Norkotah	67	93	97	100		97	2.9	2.1		2.5
13 Russet Norkotah 3	95	90	96	100		95	2.5	1.8		2.1
14 Russet Norkotah 278	6	93	97	100		97	2.3	2.0		2.1
15 AOTX95265-1RU	35	90		96		93		1.6		1.6
16 AOTX95265-3RU	44	92	93	95		93	2.1	1.9		2.0
17 AOTX95295-3RU	7	81	96	86		88	2.6	1.5		2.1
18 AOTX98137-1RU	64	91	97	95		94	2.3	2.0		2.2
19 ATX9117-1RU	0	82	96	96		91	2.7	1.7		2.2
20 ATX9130-1RU	40	54	94	91		80	2.8	1.7		2.2
21 ATX9202-3RU	67	88		98		93		1.5		1.5
22 ATX97147-4RU	69	77	98	98		91	2.5	1.9		2.2
23 CO97087-2RU	80	89	97	100		95	3.3	1.9		2.6
24 CO97090-4RU	66	89	99	100		96	3.1	2.2		2.6
25 CO97138-3RU	82	87	95	89		90	2.4	1.7		2.0
26 CO97138-7RU	19	75	88	98		87	2.9	1.6		2.2

Clone / Variety	Percent Stand					Mean	Stems per Hill			Mean
	California		Colorado ²	Texas			Colorado	Texas		
	KRN ¹	TUL ²	SLV	SPR ³	DAL ⁴		SLV	SPR	DAL	
Red Trial										
27	Norland (Dark Red)	88	74	96	83		84	3.7	2.4	3.0
28	Red LaSoda	39	77	98	88		88	2.2	1.8	2.0
29	ATTX98453-6R	79	35	94	67		65	1.8	1.4	1.6
30	CO98012-5R	81	68	95	98		87	2.6	2.1	2.3
31	COTX94218-1R	44	75	100	65		80	5.0	2.0	3.5
32	COTX00104-7R	10	52	94	96		81	1.6	3.5	2.6
33	NDTX4784-7R	41	50	94	93		79	2.4	1.7	2.1
34	NDTX4828-2R	25	76		95		86		2.1	2.1
Chip Trial										
35	Atlantic	96	79	95		100	91	2.5	2.4	2.4
36	Chipeta	94	83	94		100	92	2.5	3.0	2.7
37	ATDC9801-3P	69	86	96		100	94	2.5	2.5	2.5
38	CO98277-4W	84	82	90		100	91	3.5	2.6	3.0
39	TX1475-3W	0	81			100	91		2.3	2.3
Mean			77	95	94	100	89	2.8	1.9	2.3

¹36 DAP

²37DAP

³55 DAP

⁴60 DAP

⁵60 DAP

Table 5. Vine Size and Maturity for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	Vine Size (1-5=largest)				Vine Maturity (1-5=latest)				
	Colorado	Texas		Mean	California	Colorado	Texas		Mean
	SLV	SPR	DAL		TUL	SLV	SPR	DAL	
Specialty Trial									
1 All Blue	4.0	5.0		4.5	3.8	3.3	5.0		4.0
2 Yukon Gold	3.5	4.6		4.1	2.3	1.5	3.8		2.5
3 ATC98444-1R/Y	3.8	4.9		4.3	4.8	3.0	5.0		4.3
4 ATC98495-1W/Y	3.3	4.8		4.0	3.0	2.8	5.0		3.6
5 ATC98509-1R/Y	4.0	4.7		4.4	4.3	3.0	5.0		4.1
6 ATTX961014-1R/Y	2.5	4.4		3.5	2.3	2.0	3.9		2.7
7 ATTX98500-2P/Y	4.5	5.0		4.8	5.0	3.5	5.0		4.5
8 CO97215-2P/P	3.5	4.9		4.2	4.3	3.0	5.0		4.1
9 CO97222-1R/R	3.0	4.3		3.6	3.8	2.3	3.9		3.3
10 CO97227-2P/PW	4.0	5.0		4.5	3.8	2.0	5.0		3.6
11 CO97274-2W/Y	3.0	4.1		3.5	2.5	1.0	3.8		2.4
Russet Trial									
12 Russet Norkotah	2.8	3.5		3.1	1.3	1.8	2.9		2.0
13 Russet Norkotah 3	4.0	4.8		4.4	5.0	3.0	4.2		4.1
14 Russet Norkotah 278	3.0	4.9		4.0	3.0	2.3	4.1		3.1
15 AOTX95265-1RU		3.9		3.9	3.0		3.7		3.3
16 AOTX95265-3RU	3.0	4.4		3.7	3.5	2.3	3.6		3.1
17 AOTX95295-3RU	2.5	3.2		2.9	2.5	1.5	3.3		2.4
18 AOTX98137-1RU	2.8	3.8		3.3	1.5	1.5	3.3		2.1
19 ATX9117-1RU	4.0	4.5		4.3	5.0	3.0	3.8		3.9
20 ATX9130-1RU	3.0	4.4		3.7	3.8	2.0	3.0		2.9
21 ATX9202-3RU		4.4		4.4	4.0		4.0		4.0
22 ATX97147-4RU	4.0	4.7		4.3	5.0	3.5	4.0		4.2
23 CO97087-2RU	3.8	4.2		4.0	3.8	3.0	3.8		3.5
24 CO97090-4RU	2.3	3.7		3.0	3.0	2.3	3.2		2.8
25 CO97138-3RU	3.8	3.5		3.6	3.0	2.3	3.4		2.9
26 CO97138-7RU	3.0	4.4		3.7	4.0	2.8	3.5		3.4

Clone / Variety	Vine Size (1-5=largest)				Vine Maturity (1-5=latest)				
	Colorado	Texas		Mean	California	Colorado	Texas		Mean
	SLV	SPR	DAL		TUL	SLV	SPR	DAL	
Red Trial									
27 Norland (Dark Red)	2.0	3.3		2.7	2.8	1.0	3.6		2.5
28 Red LaSoda	4.0	5.0		4.5	4.0	2.3	4.9		3.7
29 ATTX98453-6R	1.8	3.1		2.4	2.8	1.3	4.4		2.8
30 CO98012-5R	3.3	5.0		4.1	3.8	3.0	4.5		3.8
31 COTX94218-1R	4.0	3.2		3.6	5.0	3.8	4.6		4.5
32 COTX00104-7R	3.0	5.0		4.0	4.5	3.0	5.0		4.2
33 NDTX4784-7R	3.0	3.7		3.4	3.0	2.5	3.5		3.0
34 NDTX4828-2R		4.6		4.6	4.8		4.7		4.8
Chip Trial									
35 Atlantic	3.0		4.4	3.7	3.3	3.3		4.4	3.6
36 Chipeta	4.0		4.9	4.5	5.0	3.5		5.0	4.5
37 ATDC9801-3P	4.0		4.7	4.4	3.5	2.8		4.4	3.6
38 CO98277-4W	2.5		3.8	3.1	2.8	2.0		3.7	2.8
39 TX1475-3W			4.4	4.4	2.8			3.7	3.2
Mean	3.3	4.3	4.4	3.9	3.6	2.5	4.1	4.2	3.4

Table 6. Total Yield, Yield Rank Within Type (Specialty, Russet, Red, Chipping), and Merit Score¹ (MS), for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	California				Colorado			Texas						Mean		
	KRN		TUL		SLV			SPR			DAL			Cwt/A	Rank	MS
	Cwt/A	Rank	Cwt/A	Rank	Cwt/A	Rank	MS	Cwt/A	Rank	MS	Cwt/A	Rank	MS			
Specialty Trial																
1 All Blue	550	3	478	3	563	2	5.0	332	7	1.9				481	4	3.5
2 Yukon Gold	490	7	408	9	435	8	2.0	496	2	3.9				457	6	3.0
3 ATC98444-1R/Y	561	2	592	1	545	3	4.0	327	8	2.8				506	1	3.4
4 ATC98495-1W/Y	536	4	430	6	467	7	3.0	499	1	2.7				483	2	2.8
5 ATC98509-1R/Y	569	1	462	4	487	5	3.0	411	5	3.1				482	3	3.1
6 ATTX961014-1R/Y	486	8	338	11	470	6	3.0	484	3	4.3				444	7	3.7
7 ATTX98500-2P/Y	513	5	525	2	595	1	5.0	208	11	2.7				460	5	3.9
8 CO97215-2P/P	403	11	432	5	423	9	3.0	285	10	2.7				386	11	2.8
9 CO97222-1R/R	468	9	393	10	380	11	3.0	429	4	3.0				417	9	3.0
10 CO97227-2P/PW	500	6	410	8	494	4	4.0	327	9	2.7				433	8	3.4
11 CO97274-2W/Y	422	10	411	7	392	10	2.0	410	6	3.2				409	10	2.6
Russet Trial																
12 Russet Norkotah	288	13	308	13	342	13	1.0	542	3	3.3				370	13	2.2
13 Russet Norkotah 3	369	10	496	2	537	2	5.0	452	11	3.0				463	3	4.0
14 Russet Norkotah 278	435	4	434	5	487	3	4.0	564	1	3.6				480	2	3.8
15 AOTX95265-1RU	119	15	263	14				303	15	3.2				228	15	3.2
16 AOTX95265-3RU	306	12	398	6	468	6	4.0	534	5	3.2				426	7	3.6
17 AOTX95295-3RU	225	14	235	15	384	11	3.0	390	13	3.3				308	14	3.2
18 AOTX98137-1RU	383	7	313	12	400	9	2.0	505	7	3.4				400	12	2.7
19 ATX9117-1RU	414	5	484	3	443	7	1.0	314	14	2.5				414	9	1.8
20 ATX9130-1RU	383	8	354	10	399	10	2.0	542	2	2.8				420	8	2.4
21 ATX9202-3RU	371	9	383	7				460	10	2.5				405	11	2.5
22 ATX97147-4RU	339	11	462	4	546	1	4.0	426	12	2.5				443	5	3.3
23 CO97087-2RU	510	2	366	8	411	8	3.0	506	6	2.4				448	4	2.7
24 CO97090-4RU	437	3	357	9	350	12	1.0	482	9	2.9				406	10	2.0
25 CO97138-3RU	406	6	336	11	474	5	3.0	535	4	3.6				437	6	3.3
26 CO97138-7RU	528	1	500	1	476	4	3.0	503	8	3.0				502	1	3.0

Clone / Variety	California				Colorado			Texas						Mean				
	KRN		TUL		SLV			SPR			DAL			Cwt/A	Rank	MS		
	Cwt/A	Rank	Cwt/A	Rank	Cwt/A	Rank	MS	Cwt/A	Rank	MS	Cwt/A	Rank	MS					
Red Trial																		
27	Norland (Dark Red)		471	4	407	4	419	3	2.0	414	3	3.7				428	4	2.9
28	Red LaSoda		692	1	598	1	528	2	1.0	459	2	3.7				569	1	2.4
29	ATTX98453-6R		210	8	307	8	352	7	1.0	311	8	3.5				295	8	2.3
30	CO98012-5R		450	5	376	5	368	6	2.0	462	1	3.4				414	5	2.7
31	COTX94218-1R		436	6	447	3	630	1	5.0	366	4	3.1				470	2	4.0
32	COTX00104-7R		509	3	369	6	383	5	1.0	343	5	3.1				401	6	2.0
33	NDTX4784-7R		380	7	364	7	407	4	2.0	321	7	4.0				368	7	3.0
34	NDTX4828-2R		516	2	475	2				327	6	3.4				439	3	3.4
Chip Trial																		
35	Atlantic		627	1	455	2	464	2	3.0				563	4	3.5	527	3	3.2
36	Chipeta		584	2	558	1	600	1	5.0				552	5	3.6	573	1	4.3
37	ATDC9801-3P		582	3	394	3	459	3	2.0				684	2	3.2	530	2	2.6
38	CO98277-4W		395	5	376	5	400	4	1.0				619	3	3.0	448	5	2.0
39	TX1475-3W		473	4	387	4							686	1	2.7	515	4	2.7
Mean			444		412		456		2.8	420		3.1	621		3.2	438		2.97

¹ 1= very poor, 5=excellent

Table 7. Yield and Percent of U.S. No. 1's (>4oz.) and Yield Rank Within Type (Specialty, Russet, Chipping) for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	California						Colorado			Texas						Mean		
	KRN			TUL			SLV			SPR			DAL			Mean		
	Cwt/A	Rank	%	Cwt/A	Rank	%	Cwt/A	Rank	%	Cwt/A	Rank	%	Cwt/A	Rank	%	Cwt/A	Rank	%
Specialty Trial																		
1 All Blue	426	6	77	297	7	62	422	2	75	130	9	39				319	8	66
2 Yukon Gold	453	2	92	331	4	81	398	6	92	449	1	91				408	1	89
3 ATC98444-1R/Y	442	3	79	417	1	70	421	3	77	94	11	29				343	7	68
4 ATC98495-1W/Y	427	5	80	331	4	77	381	7	82	338	3	68				369	4	76
5 ATC98509-1R/Y	476	1	84	355	3	77	421	4	86	280	6	68				383	2	79
6 ATTX961014-1R/Y	401	7	83	260	9	77	410	5	87	420	2	87				373	3	84
7 ATTX98500-2P/Y	431	4	84	416	2	79	498	1	84	126	10	60				368	5	80
8 CO97215-2P/P	270	11	67	276	8	64	353	8	83	153	8	54				263	9	68
9 CO97222-1R/R	308	9	66	196	10	50	233	10	61	293	5	68				258	10	62
10 CO97227-2P/PW	281	10	56	177	11	43	135	11	27	165	7	51				190	11	44
11 CO97274-2W/Y	390	8	92	309	6	75	353	9	90	330	4	80				345	6	84
Russet Trial																		
12 Russet Norkotah	237	12	82	219	13	71	298	11	87	438	3	81				298	13	81
13 Russet Norkotah 3	331	7	90	350	2	71	500	1	93	313	11	69				373	4	81
14 Russet Norkotah 278	388	3	89	346	3	80	448	3	92	385	9	68				392	2	82
15 AOTX95265-1RU	184	14	155	171	14	65				227	14	75				194	15	85
16 AOTX95265-3RU	264	11	86	299	6	75	425	6	91	398	5	75				346	6	81
17 AOTX95295-3RU	173	15	77	160	15	68	337	10	88	288	13	74				239	14	78
18 AOTX98137-1RU	313	9	82	231	10	74	367	8	92	400	4	79				328	8	82
19 ATX9117-1RU	364	5	88	280	7	58	401	7	91	202	15	65				312	12	75
20 ATX9130-1RU	322	8	84	226	11	64	260	13	65	448	2	83				314	10	75
21 ATX9202-3RU	292	10	79	300	5	78				348	10	76				313	11	77
22 ATX97147-4RU	229	13	68	320	4	69	476	2	87	296	12	70				330	7	75
23 CO97087-2RU	465	2	91	220	12	60	361	9	88	388	7	77				358	5	80
24 CO97090-4RU	345	6	79	255	9	71	289	12	83	387	8	80				319	9	78
25 CO97138-3RU	364	4	90	269	8	80	431	5	91	457	1	85				380	3	87
26 CO97138-7RU	466	1	88	447	1	89	443	4	93	397	6	79				438	1	87

Clone / Variety	California						Colorado			Texas						Mean			
	KRN			TUL			SLV			SPR			DAL						
	Cwt/A	Rank	%	Cwt/A	Rank	%	Cwt/A	Rank	%	Cwt/A	Rank	%	Cwt/A	Rank	%	Cwt/A	Rank	%	
Red Trial																			
27	Norland (Dark Red)	418	4	89	315	4	77	375	3	89	349	2	84				364	2	85
28	Red LaSoda	645	1	93	379	1	63	454	2	86	394	1	86				468	1	82
29	ATTX98453-6R	145	8	69	233	8	76	293	6	83	192	4	62				216	8	73
30	CO98012-5R	377	5	84	243	7	65	290	7	79	132	7	29				261	7	63
31	COTX94218-1R	343	6	79	338	2	76	513	1	81	186	5	51				345	3	73
32	COTX00104-7R	445	2	87	281	6	76	336	5	88	144	6	42				301	4	75
33	NDTX4784-7R	331	7	87	288	5	79	342	4	84	221	3	69				296	6	80
34	NDTX4828-2R	441	3	86	326	3	69				126	8	38				298	5	68
Chip Trial																			
35	Atlantic	567	1	90	370	2	81	417	2	90			489	4	87		461	3	87
36	Chipeta	542	2	93	469	1	84	508	1	85			499	3	90		504	1	88
37	ATDC9801-3P	479	3	82	288	4	73	296	4	64			572	2	84		409	4	77
38	CO98277-4W	322	5	81	220	5	59	326	3	82			479	5	77		337	5	75
39	TX1475-3W	437	4	92	344	3	89						662	1	97		481	2	93
Mean		373		85	296		72	377		83	291		67	540		87	341		78

Table 8. Yield and Percent of U.S. No. 1's (>10oz.) for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	California				Colorado		Texas				Mean		
	KRN ¹		TUL ¹		SLV		SPR		DAL		Cwt/A	%	
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%			
Specialty Trial													
1	All Blue	0	0	40	8	90	16	0	0			32	6
2	Yukon Gold	54	11	156	38	194	45	134	27			134	30
3	ATC98444-1R/Y	4	1	96	16	79	15	0	0			45	1
4	ATC98495-1W/Y	0	0	107	25	87	19	36	7			57	13
5	ATC98509-1R/Y	17	3	109	24	149	31	24	6			75	16
6	ATTX961014-1R/Y	15	3	56	17	89	19	105	22			66	15
7	ATTX98500-2P/Y	9	2	152	29	173	29	5	2			85	16
8	CO97215-2P/P	0	0	49	11	84	20	0	0			33	8
9	CO97222-1R/R	3	1	24	6	37	10	56	13			30	7
10	CO97227-2P/PW	0	0	3	1	2	0	13	4			5	1
11	CO97274-2W/Y	13	3	84	20	111	28	84	20			73	18
Russet Trial													
12	Russet Norkotah	3	1	25	8	89	26	208	38			81	18
13	Russet Norkotah 3	20	5	179	36	311	58	154	34			166	33
14	Russet Norkotah 278	55	13	137	32	305	63	159	28			164	34
15	AOTX95265-1RU	7	6	33	13			102	34			47	17
16	AOTX95265-3RU	6	2	75	19	254	54	141	26			119	25
17	AOTX95295-3RU	0	0	35	15	111	29	112	29			64	18
18	AOTX98137-1RU	0	0	39	12	137	34	161	32			84	20
19	ATX9117-1RU	28	7	60	12	159	36	94	30			85	21
20	ATX9130-1RU	33	9	73	21	90	23	240	44			109	24
21	ATX9202-3RU	4	1	63	16			117	25			61	14
22	ATX97147-4RU	0	0	59	13	154	28	83	19			74	15
23	CO97087-2RU	3	1	64	17	81	20	91	18			60	14
24	CO97090-4RU	4	1	36	10	64	18	70	15			44	11
25	CO97138-3RU	36	9	116	35	216	46	251	47			155	34
26	CO97138-7RU	80	15	252	50	201	42	149	30			170	34

Clone / Variety	California				Colorado		Texas				Mean		
	KRN ¹		TUL ¹		SLV		SPR		DAL		Mean		
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	
Red Trial													
27	Norland (Dark Red)	21	4	115	28	130	31	135	33			100	24
28	Red LaSoda	49	7	269	45	133	25	233	51			171	32
29	ATTX98453-6R	0	0	65	21	65	18	29	9			40	12
30	CO98012-5R	0	0	21	6	50	13	0	0			18	5
31	COTX94218-1R	5	1	68	15	70	11	18	5			40	8
32	COTX00104-7R	7	1	105	28	234	61	0	0			86	23
33	NDTX4784-7R	0	0	122	34	78	19	66	21			67	18
34	NDTX4828-2R	10	2	45	9			0	0			18	4
Chip Trial													
35	Atlantic	26	4	77	17	201	43			34	6	85	18
36	Chipeta	3	1	253	45	222	37			259	47	185	33
37	ATDC9801-3P	0	0	64	16	33	7			54	8	38	8
38	CO98277-4W	0	0	36	10	70	18			41	7	37	8
39	TX1475-3W	26	6	138	36					428	62	197	35
Mean		14	3	90	21	130	28	90	20	163	26	82	18

¹ > 12 oz on Russets

Table 9. Yield and Percent of U.S. No. 1's (6 - 10oz.) for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	California				Colorado		Texas				Mean	
	KRN ¹		TUL ²		SLV ³		SPR		DAL		Cwt/A	%
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%		
Specialty Trial												
1 All Blue	211	38	123	26	333	59	25	8			173	33
2 Yukon Gold	319	65	118	29	205	47	254	51			224	48
3 ATC98444-1R/Y	227	40	187	32	342	63	5	2			190	34
4 ATC98495-1W/Y	214	40	139	32	294	63	169	34			204	42
5 ATC98509-1R/Y	333	58	160	35	272	56	116	28			220	44
6 ATTX961014-1R/Y	239	49	125	37	321	68	217	45			226	50
7 ATTX98500-2P/Y	280	55	165	31	325	55	46	22			204	41
8 CO97215-2P/P	107	27	124	29	269	64	61	21			140	35
9 CO97222-1R/R	153	33	95	24	196	52	89	21			133	32
10 CO97227-2P/PW	134	27	75	18	133	27	32	10			94	20
11 CO97274-2W/Y	278	66	148	36	242	62	160	39			207	51
Russet Trial												
12 Russet Norkotah	145	50	63	20	209	61	155	29			143	40
13 Russet Norkotah 3	233	63	88	18	189	35	109	24			155	35
14 Russet Norkotah 278	261	60	111	26	144	30	146	26			165	35
15 AOTX95265-1RU	119	100	45	17			84	28			83	48
16 AOTX95265-3RU	196	64	94	24	171	36	172	32			158	39
17 AOTX95295-3RU	105	47	43	18	226	59	96	25			117	37
18 AOTX98137-1RU	229	60	68	22	230	58	144	28			168	42
19 ATX9117-1RU	256	62	92	19	242	55	53	17			161	38
20 ATX9130-1RU	213	56	71	20	170	43	112	21			142	35
21 ATX9202-3RU	154	42	110	29			139	30			134	33
22 ATX97147-4RU	129	38	105	23	322	59	112	26			167	36
23 CO97087-2RU	340	67	64	17	280	68	170	34			214	46
24 CO97090-4RU	232	53	74	21	225	64	128	26			164	41
25 CO97138-3RU	241	60	79	24	215	45	142	26			169	39
26 CO97138-7RU	317	60	106	21	242	51	169	34			209	41

Clone / Variety	California				Colorado		Texas				Mean		
	KRN ¹		TUL ²		SLV ³		SPR		DAL				
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	
Red Trial													
27	Norland (Dark Red)	267	57	142	35	245	58	109	26			191	44
28	Red LaSoda	415	60	74	12	321	61	121	26			232	40
29	ATTX98453-6R	62	30	104	34	228	65	65	21			115	37
30	CO98012-5R	226	50	115	31	241	65	15	3			149	37
31	COTX94218-1R	171	39	151	34	443	70	55	15			205	40
32	COTX00104-7R	316	62	128	35	102	27	40	12			146	34
33	NDTX4784-7R	209	55	108	30	265	65	68	21			162	43
34	NDTX4828-2R	281	55	154	32			20	6			152	31
Chip Trial													
35	Atlantic	391	62	178	39	216	46			224	40	252	47
36	Chipeta	379	65	171	31	285	48			178	32	253	44
37	ATDC9801-3P	302	52	136	35	263	57			295	43	249	47
38	CO98277-4W	194	49	97	26	256	64			177	29	181	42
39	TX1475-3W	304	64	154	40					162	24	206	43
Mean		218	53	103	25	242	53	106	24	207	33	168	39

¹ 7-12 oz on Russets

² 8-12 oz on Russets

³ 4-10 oz

Table 10. Yield and Percent of U.S. No. 1's (4 - 6 oz.) for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	California				Texas				Mean	
	KRN ¹		TUL ²		SPR		DAL		Cwt/A	%
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%		
Specialty Trial										
1 All Blue	215	39	134	28	105	32			151	33
2 Yukon Gold	80	16	56	14	68	14			68	15
3 ATC98444-1R/Y	211	38	134	23	89	27			145	29
4 ATC98495-1W/Y	212	40	85	20	133	27			144	29
5 ATC98509-1R/Y	127	22	86	19	141	34			118	25
6 ATTX961014-1R/Y	147	30	78	23	97	20			107	24
7 ATTX98500-2P/Y	142	28	99	19	75	36			105	27
8 CO97215-2P/P	163	41	103	24	92	32			119	32
9 CO97222-1R/R	153	33	77	20	148	34			126	29
10 CO97227-2P/PW	147	29	99	24	120	37			122	30
11 CO97274-2W/Y	99	24	76	18	88	21			88	21
Russet Trial										
12 Russet Norkotah	88	31	131	43	75	14			98	29
13 Russet Norkotah 3	78	21	82	17	51	11			70	16
14 Russet Norkotah 278	73	17	99	23	80	14			84	18
15 AOTX95265-1RU	58	49	93	35	42	14			64	33
16 AOTX95265-3RU	62	20	131	33	86	16			93	23
17 AOTX95295-3RU	68	30	82	35	81	21			77	29
18 AOTX98137-1RU	84	22	124	40	95	19			101	27
19 ATX9117-1RU	79	19	128	26	56	18			88	21
20 ATX9130-1RU	76	20	81	23	95	18			84	20
21 ATX9202-3RU	135	36	126	33	91	20			117	30
22 ATX97147-4RU	100	29	155	34	102	24			119	29
23 CO97087-2RU	122	24	92	25	127	25			114	25
24 CO97090-4RU	110	25	145	41	189	39			148	35
25 CO97138-3RU	86	21	75	22	64	12			75	19
26 CO97138-7RU	69	13	88	18	78	15			78	15

Clone / Variety	California				Texas				Mean		
	KRN ¹		TUL ²		SPR		DAL		Cwt/A	%	
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%			
Red Trial											
27	Norland (Dark Red)	131	28	58	14	105	25			98	22
28	Red LaSoda	182	26	36	6	41	9			86	14
29	ATTX98453-6R	83	39	64	21	97	31			81	31
30	CO98012-5R	151	33	107	28	117	25			125	29
31	COTX94218-1R	166	38	119	27	113	31			133	32
32	COTX00104-7R	123	24	49	13	103	30			92	22
33	NDTX4784-7R	123	32	59	16	86	27			89	25
34	NDTX4828-2R	150	29	127	27	105	32			127	29
Chip Trial											
35	Atlantic	149	24	115	25			230	41	132	25
36	Chipeta	160	27	46	8			61	11	103	18
37	ATDC9801-3P	177	30	89	23			223	33	133	26
38	CO98277-4W	129	32	87	23			261	42	108	28
39	TX1475-3W	106	22	52	13			73	11	79	18
Mean		115	28	102	26	95	24	170	27	104	25

¹ 4-7 oz on Russets

² 4-8 oz on Russets

Table 11. Yield and Percent B (<4 oz.) Tubers for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	California				Colorado		Texas				Mean	
	KRN		TUL		SLV		SPR		DAL		Cwt/A	%
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%		
Specialty Trial												
1 All Blue	119	22	136	28	139	25	202	61			149	34
2 Yukon Gold	26	5	34	8	30	7	39	8			32	7
3 ATC98444-1R/Y	97	17	94	16	98	18	233	71			131	31
4 ATC98495-1W/Y	85	16	55	13	68	15	160	32			92	19
5 ATC98509-1R/Y	76	13	59	13	42	9	131	32			77	17
6 ATTX961014-1R/Y	78	16	60	18	54	11	64	13			64	15
7 ATTX98500-2P/Y	64	12	83	16	88	15	83	40			79	21
8 CO97215-2P/P	132	33	85	20	64	15	132	46			103	28
9 CO97222-1R/R	133	28	83	21	135	36	136	32			122	29
10 CO97227-2P/PW	216	43	147	36	353	71	162	49			219	50
11 CO97274-2W/Y	24	6	61	15	29	7	78	19			48	12
Russet Trial												
12 Russet Norkotah	49	17	68	22	30	9	45	8			48	14
13 Russet Norkotah 3	33	9	24	5	24	4	45	10			32	7
14 Russet Norkotah 278	37	9	33	8	15	3	47	8			33	7
15 AOTX95265-1RU	60	51	54	21			26	9			47	27
16 AOTX95265-3RU	38	12	49	12	17	4	78	15			45	11
17 AOTX95295-3RU	48	21	45	19	36	9	48	12			44	16
18 AOTX98137-1RU	65	17	61	19	22	6	39	8			47	12
19 ATX9117-1RU	35	8	49	10	24	5	29	9			34	8
20 ATX9130-1RU	46	12	30	8	40	10	24	4			35	9
21 ATX9202-3RU	71	19	40	10			65	14			59	15
22 ATX97147-4RU	105	31	54	12	49	9	48	11			64	16
23 CO97087-2RU	45	9	45	12	43	11	74	15			52	12
24 CO97090-4RU	87	20	69	19	54	15	83	17			73	18
25 CO97138-3RU	37	9	23	7	23	5	37	7			30	7
26 CO97138-7RU	54	10	27	5	24	5	47	9			38	8

Clone / Variety	California				Colorado		Texas				Mean		
	KRN		TUL		SLV		SPR		DAL		Mean		
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	
Red Trial													
27	Norland (Dark Red)	40	9	34	8	37	9	65	16			44	10
28	Red LaSoda	42	6	16	3	42	8	65	14			41	8
29	ATTX98453-6R	57	27	50	16	52	15	120	38			70	24
30	CO98012-5R	63	14	104	28	73	20	330	71			142	33
31	COTX94218-1R	81	19	89	20	103	16	180	49			113	26
32	COTX00104-7R	55	11	37	10	16	4	200	58			77	21
33	NDTX4784-7R	36	9	31	9	56	14	100	31			56	16
34	NDTX4828-2R	59	11	98	21			201	62			119	31
Chip Trial													
35	Atlantic	48	8	71	16	28	6			74	13	55	11
36	Chipeta	40	7	25	4	42	7			40	7	37	6
37	ATDC9801-3P	95	16	78	20	157	34			112	16	111	22
38	CO98277-4W	63	16	95	25	71	18			106	17	84	19
39	TX1475-3W	28	6	25	6					12	2	22	5
Mean		72	18	60	15	63	13	100	26	69	11	69	17

Table 12. Yield and Percent Culls/No. 2s for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	California				Colorado		Texas				Mean	
	KRN		TUL		SLV		SPR		DAL		Mean	
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%
Specialty Trial												
1 All Blue	5	1	46	10	2	0	0	0			13	3
2 Yukon Gold	12	2	45	11	7	2	0	0			16	4
3 ATC98444-1R/Y	23	4	81	14	26	5	0	0			32	6
4 ATC98495-1W/Y	25	5	44	10	18	4	0	0			22	5
5 ATC98509-1R/Y	17	3	48	10	25	5	0	0			22	5
6 ATTX961014-1R/Y	7	1	19	5	6	1	0	0			8	2
7 ATTX98500-2P/Y	18	3	25	5	9	1	0	0			13	2
8 CO97215-2P/P	0	0	71	16	6	1	0	0			19	4
9 CO97222-1R/R	26	6	113	29	11	3	0	0			38	9
10 CO97227-2P/PW	3	1	87	21	6	1	0	0			24	6
11 CO97274-2W/Y	8	2	42	10	11	3	0	0			15	4
Russet Trial												
12 Russet Norkotah	3	1	21	7	14	4	59	11			24	6
13 Russet Norkotah 3	5	1	122	25	13	2	94	21			59	12
14 Russet Norkotah 278	10	2	54	12	23	5	132	23			55	11
15 AOTX95265-1RU	4	3	38	14			50	16			30	11
16 AOTX95265-3RU	5	1	50	13	26	6	58	11			35	8
17 AOTX95295-3RU	4	2	31	13	11	3	54	14			25	8
18 AOTX98137-1RU	6	1	21	7	11	3	66	13			26	6
19 ATX9117-1RU	15	4	156	32	17	4	82	26			68	16
20 ATX9130-1RU	15	4	98	28	99	25	71	13			70	17
21 ATX9202-3RU	7	2	43	11			47	10			32	8
22 ATX97147-4RU	5	1	88	19	21	4	82	19			49	11
23 CO97087-2RU	0	0	101	28	7	2	44	9			38	10
24 CO97090-4RU	4	1	32	9	7	2	12	2			14	4
25 CO97138-3RU	5	1	44	13	19	4	41	8			27	6
26 CO97138-7RU	8	2	27	5	9	2	59	12			26	5

Clone / Variety	California				Colorado		Texas				Mean	
	KRN		TUL		SLV		SPR		DAL		Mean	
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%
Red Trial												
27 Norland (Dark Red)	13	3	58	14	7	2	0	0			19	5
28 Red LaSoda	5	1	203	34	32	6	0	0			60	10
29 ATTX98453-6R	8	4	24	8	7	2	0	0			10	3
30 CO98012-5R	10	2	28	7	5	1	0	0			11	3
31 COTX94218-1R	12	3	20	4	14	2	0	0			12	2
32 COTX00104-7R	9	2	51	14	31	8	0	0			23	6
33 NDTX4784-7R	13	3	45	12	9	2	0	0			17	4
34 NDTX4828-2R	16	3	51	11			0	0			22	5
Chip Trial												
35 Atlantic	12	2	15	3	19	4			0	0	11	2
36 Chipeta	3	0	63	11	50	8			13	2	32	6
37 ATDC9801-3P	9	2	28	7	6	1			0	0	11	3
38 CO98277-4W	11	3	61	16	2	1			34	5	27	6
39 TX1475-3W	8	2	18	5					12	2	13	3
Mean	9	2	59	15	17	4	28	6	12	2	31	7

Table 13. Specific Gravity for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	California	Colorado	Texas		Mean
	TUL	SLV	SPR	DAL	
Specialty Trial					
1 All Blue	1.090	1.091	1.072		1.084
2 Yukon Gold	1.094	1.085	1.077		1.085
3 ATC98444-1R/Y	1.096	1.090	1.076		1.087
4 ATC98495-1W/Y	1.092	1.090	1.071		1.084
5 ATC98509-1R/Y	1.082	1.082	1.066		1.077
6 ATTX961014-1R/Y	1.083	1.081	1.071		1.078
7 ATTX98500-2P/Y	1.089	1.084	1.053		1.075
8 CO97215-2P/P	1.086	1.089	1.075		1.083
9 CO97222-1R/R	1.075	1.076	1.062		1.071
10 CO97227-2P/PW	1.090	1.084	1.071		1.082
11 CO97274-2W/Y	1.076	1.078	1.069		1.074
Russet Trial					
12 Russet Norkotah	1.075	1.081	1.067		1.074
13 Russet Norkotah 3	1.080	1.092	1.068		1.080
14 Russet Norkotah 278	1.081	1.083	1.064		1.076
15 AOTX95265-1RU	1.089		1.071		1.080
16 AOTX95265-3RU	1.076	1.084	1.072		1.077
17 AOTX95295-3RU	1.083	1.077	1.067		1.076
18 AOTX98137-1RU	1.078	1.080	1.075		1.078
19 ATX9117-1RU	1.090	1.109	1.080		1.093
20 ATX9130-1RU	1.073	1.078	1.067		1.073
21 ATX9202-3RU	1.086		1.065		1.076
22 ATX97147-4RU	1.080	1.084	1.069		1.078
23 CO97087-2RU	1.088	1.098	1.080		1.089
24 CO97090-4RU	1.069	1.081	1.069		1.073
25 CO97138-3RU	1.082	1.083	1.062		1.076
26 CO97138-7RU	1.073	1.074	1.073		1.073

Clone / Variety	California	Colorado	Texas		Mean
	TUL	SLV	SPR	DAL	
Red Trial					
27 Norland (Dark Red)	1.064	1.068	1.064		1.065
28 Red LaSoda	1.074	1.081	1.061		1.072
29 ATTX98453-6R	1.079	1.071	1.074		1.075
30 CO98012-5R	1.081	1.080	1.076		1.079
31 COTX94218-1R	1.091	1.092	1.072		1.085
32 COTX00104-7R	1.074	1.067	1.068		1.069
33 NDTX4784-7R	1.074	1.075	1.063		1.071
34 NDTX4828-2R	1.086		1.065		1.076
Chip Trial					
35 Atlantic	1.102	1.101		1.067	1.090
36 Chipeta	1.089	1.095		1.053	1.079
37 ATDC9801-3P	1.104	1.100		1.069	1.091
38 CO98277-4W	1.072	1.067		1.050	1.063
39 TX1475-3W	1.079			1.069	1.074
Mean	1.083	1.084	1.069	1.061	1.078

Table 14. Average Tuber Weight (Size) and Shape for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	Weight (oz.)		Shape ¹				Mean
	Texas		California	Colorado	Texas		
	SPR	DAL	TUL	SLV	SPR	DAL	
Specialty Trial							
1 All Blue	2.2		5.0	5.0	4.5		4.8
2 Yukon Gold	6.8		2.5	2.0	3.0		2.5
3 ATC98444-1R/Y	2.4		1.8	2.0	2.3		2.0
4 ATC98495-1W/Y	4.4		2.0	1.0	2.5		1.8
5 ATC98509-1R/Y	3.6		2.3	2.0	3.3		2.5
6 ATTX961014-1R/Y	5.3		3.0	4.0	3.0		3.3
7 ATTX98500-2P/Y	2.8		1.0	1.0	2.4		1.5
8 CO97215-2P/P	2.8		2.5	1.0	2.0		1.8
9 CO97222-1R/R	3.8		3.0	2.0	3.5		2.8
10 CO97227-2P/PW	2.6		4.8	2.0	3.8		3.5
11 CO97274-2W/Y	5.3		3.5	2.0	3.5		3.0
Russet Trial							
12 Russet Norkotah	7.0		4.5	5.0	4.5		4.7
13 Russet Norkotah 3	6.8		5.0	5.0	4.7		4.9
14 Russet Norkotah 278	7.2		4.5	5.0	4.6		4.7
15 AOTX95265-1RU	8.2		4.5		4.7		4.6
16 AOTX95265-3RU	6.2		5.0	5.0	4.5		4.8
17 AOTX95295-3RU	6.2		4.3	5.0	4.1		4.5
18 AOTX98137-1RU	7.1		4.3	5.0	4.4		4.6
19 ATX9117-1RU	6.9		4.0	4.0	3.6		3.9
20 ATX9130-1RU	7.6		4.8	5.0	4.2		4.7
21 ATX9202-3RU	5.8		4.0		3.8		3.9
22 ATX97147-4RU	6.1		5.0	5.0	4.0		4.7
23 CO97087-2RU	6.0		4.5	3.0	3.6		3.7
24 CO97090-4RU	5.5		4.8	5.0	4.0		4.6
25 CO97138-3RU	8.2		4.3	5.0	4.1		4.5
26 CO97138-7RU	7.9		4.0	5.0	3.6		4.2

Clone / Variety	Weight (oz.)		Shape ¹				Mean
	Texas		California	Colorado	Texas		
	SPR	DAL	TUL	SLV	SPR	DAL	
Red Trial							
27 Norland (Dark Red)	7.1		2.3	2.0	3.0		2.4
28 Red LaSoda	6.8		1.8	2.0	3.0		2.3
29 ATTX98453-6R	3.8		1.5	1.0	2.4		1.6
30 CO98012-5R	2.9		1.8	1.0	2.1		1.6
31 COTX94218-1R	3.5		1.3	1.0	2.9		1.7
32 COTX00104-7R	2.8		2.3	1.0	2.1		1.8
33 NDTX4784-7R	4.0		1.5	1.0	2.2		1.6
34 NDTX4828-2R	3.2		1.0		2.5		1.8
Chip Trial							
35 Atlantic		5.0		2.0		1.7	1.9
36 Chipeta		7.8		2.0		3.4	2.7
37 ATDC9801-3P		4.7		1.0		1.7	1.4
38 CO98277-4W		4.4		2.0		2.7	2.3
39 TX1475-3W		10.1				2.7	2.7
Mean	5.3	6.4	3.3	2.9	3.4	2.4	3.1

¹ 1= round, 5=long

Table 15. Eye Depth and Growth Cracks for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	Eye Depth ¹				Growth Cracks ²			
	California	Texas		Mean	Colorado	Texas		Mean
	TUL	SPR	DAL		SLV	SPR	DAL	
Specialty Trial								
1 All Blue	2.5	2.4		2.4	5.0	5.0		5.0
2 Yukon Gold	2.3	3.5		2.9	4.0	5.0		4.5
3 ATC98444-1R/Y	3.0	3.5		3.3	3.0	5.0		4.0
4 ATC98495-1W/Y	3.5	3.0		3.3	4.0	5.0		4.5
5 ATC98509-1R/Y	3.3	3.1		3.2	4.0	5.0		4.5
6 ATTX961014-1R/Y	2.3	3.5		2.9	5.0	5.0		5.0
7 ATTX98500-2P/Y	2.3	3.1		2.7	4.0	5.0		4.5
8 CO97215-2P/P	2.0	3.9		2.9	4.0	5.0		4.5
9 CO97222-1R/R	2.8	2.6		2.7	4.0	4.5		4.3
10 CO97227-2P/PW	2.3	3.1		2.7	4.0	5.0		4.5
11 CO97274-2W/Y	3.0	3.7		3.4	4.0	5.0		4.5
Russet Trial								
12 Russet Norkotah	3.0	3.6		3.3	5.0	5.0		5.0
13 Russet Norkotah 3	2.8	3.7		3.2	4.0	5.0		4.5
14 Russet Norkotah 278	2.5	3.5		3.0	5.0	5.0		5.0
15 AOTX95265-1RU	2.3	3.6		3.0		5.0		5.0
16 AOTX95265-3RU	2.0	3.2		2.6	4.0	5.0		4.5
17 AOTX95295-3RU	2.0	3.6		2.8	4.0	5.0		4.5
18 AOTX98137-1RU	2.5	3.7		3.1	5.0	5.0		5.0
19 ATX9117-1RU	2.0	4.0		3.0	4.0	3.9		4.0
20 ATX9130-1RU	1.5	4.4		2.9	1.0	5.0		3.0
21 ATX9202-3RU	2.3	3.5		2.9		5.0		5.0
22 ATX97147-4RU	2.0	4.3		3.1	4.0	5.0		4.5
23 CO97087-2RU	2.3	3.8		3.0	5.0	5.0		5.0
24 CO97090-4RU	1.3	4.1		2.7	4.0	5.0		4.5
25 CO97138-3RU	2.3	4.2		3.3	4.0	5.0		4.5
26 CO97138-7RU	2.3	3.8		3.0	5.0	5.0		5.0

Clone / Variety	Eye Depth ¹				Growth Cracks ²				
	California	Texas		Mean	Colorado	Texas		Mean	
	TUL	SPR	DAL		SLV	SPR	DAL		
Red Trial									
27	Norland (Dark Red)	2.8	3.4		3.1	4.0	5.0	4.5	
28	Red LaSoda	4.0	2.0		3.0	3.0	5.0	4.0	
29	ATTX98453-6R	2.5	3.6		3.1	4.0	5.0	4.5	
30	CO98012-5R	2.8	3.4		3.1	4.0	5.0	4.5	
31	COTX94218-1R	2.3	3.5		2.9	4.0	4.8	4.4	
32	COTX00104-7R	2.8	3.9		3.3	2.0	5.0	3.5	
33	NDTX4784-7R	2.8	3.5		3.2	4.0	5.0	4.5	
34	NDTX4828-2R	3.3	3.3		3.3		5.0	5.0	
Chip Trial									
35	Atlantic		4.2		4.2	4.0	5.0	4.5	
36	Chipeta		3.7		3.7	2.0	5.0	3.5	
37	ATDC9801-3P		3.3		3.3	5.0	5.0	5.0	
38	CO98277-4W		4.5		4.5	4.0	4.2	4.1	
39	TX1475-3W		4.0		4.0		5.0	5.0	
Mean		2.5	3.5	3.9	3.1	4.0	4.9	4.8	4.5

¹1 = deep, 5 = shallow

²1 = many, 5 = none

Table 16. Percent Hollow Heart/Brown Center, Blackspot Bruising, and Fry Results for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	Hollow Heart/Brown Center (%)				Mean	Bruising ¹	Fry Data ²	
	California	Colorado	Texas			Colorado	Colorado	
	TUL	SLV	SPR	DAL		SLV	SLV ³	SLV ⁴
Specialty Trial								
1 All Blue	0	1.5	0		0			
2 Yukon Gold	0	0.0	0		0	5.0	1	3
3 ATC98444-1R/Y	0	1.8	0		1	4.5	3	3
4 ATC98495-1W/Y	0	0.5	0		0	4.1	1	3
5 ATC98509-1R/Y	0	0.0	0		0	4.6	3	3
6 ATTX961014-1R/Y	0	0.0	3		1	4.8	1	1
7 ATTX98500-2P/Y	0	0.0	0		0	4.8	1	3
8 CO97215-2P/P	0	0.8	0		0			
9 CO97222-1R/R	0	0.0	0		0			
10 CO97227-2P/PW	0	0.0	0		0			
11 CO97274-2W/Y	0	0.0	0			5.0	1	1
Russet Trial								
12 Russet Norkotah	35	0.0	3		13	4.8	1	2
13 Russet Norkotah 3	50	8.9	0		20	5.0	1	3
14 Russet Norkotah 278	43	6.0	0		16	5.0	2	3
15 AOTX95265-1RU	65		0		33			
16 AOTX95265-3RU	58	2.7	0		20	5.0	1	3
17 AOTX95295-3RU	73	0.6	0		25	5.0	1	2
18 AOTX98137-1RU	25	0.0	0		8	4.9	1	3
19 ATX9117-1RU	38	15.9	30		28	3.3	0	0
20 ATX9130-1RU	65	5.3	8		26	4.7	2	3
21 ATX9202-3RU	0		3		1			
22 ATX97147-4RU	10	0.0	0		3	4.9	3	3
23 CO97087-2RU	8	0.0	0		3	5.0	0	0
24 CO97090-4RU	5	0.0	3		3	5.0	1	3
25 CO97138-3RU	0	0.0	0		0	4.9	1	3
26 CO97138-7RU	3	0.0	0		1	5.0	1	3

Clone / Variety	Hollow Heart/Brown Center (%)				Mean	Bruising ¹	Fry Data ²		
	California	Colorado	Texas			Colorado	Colorado		
	TUL	SLV	SPR	DAL		SLV	SLV ³	SLV ⁴	
Red Trial									
27	Norland (Dark Red)	0	0.4	0		0	4.5	1	3
28	Red LaSoda	0	18.1	3		7	4.6	2	3
29	ATTX98453-6R	0	0.0	0		0	4.3	3	3
30	CO98012-5R	0	0.9	0		0	4.6	2	3
31	COTX94218-1R	0	0.3	0		0	4.8	1	1
32	COTX00104-7R	0	0.0	0		0	5.0	4	4
33	NDTX4784-7R	3	1.6	0		2	3.2	3	3
34	NDTX4828-2R	0		0		0			
Chip Trial									
35	Atlantic	8	7.4		0	5	3.2		
36	Chipeta	5	0.0		0	2	4.5		
37	ATDC9801-3P	0	0.0		3	1	3.9		
38	CO98277-4W	0	0.0		3	1	5.0		
39	TX1475-3W	28			55	42			
Mean		13	2.1	1	12	7	4.6	1.6	2.5

¹ 1=severe, 5= none

² 1=light, 5= dark

³ at harvest

⁴ after 9 weeks at 45° F

Table 17. Colorado, California and Texas Chipping Results for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	Chip Color ¹				Texas ⁴	California
	Colorado					
	40 ²	R40 ²	50 ³	R50 ³		
Atlantic	4.0	3.5	2.5	1.0	2	2.0
Chipeta	4.5	3.5	1.5	1.0	2+	2.0
ATDC9801-3P	2.5	3.0	2.0	2.0	1	2.0
CO98277-4W	4.5	4.0	2.5	2.5	2+	2.0
TX1475-3W					1	1.0

¹ 1=light, 5=dark

²40°F Storage protocol prior to frying

Initial storage temperature 55°F

Holding temperature 40°F

Weeks to holding temperature 3

Weeks at holding temperature 5

Reconditioning temp. (if applicable) 60°F

Number of weeks reconditioning 3

³50°F Storage protocol prior to frying

Initial storage temperature 55°F

Holding temperature 50°F

Weeks to holding temperature 3

Weeks at holding temperature 5

Reconditioning temp. (if applicable) 60°F

Number of weeks reconditioning 3

⁴ Chipped immediately following harvest

Table 18. Summary for Clones in the Southwestern Regional Trial, 2006

Clone / Variety	Field Data				Yield Qualities					Tuber Description				
	% Stand	Stems/hill	Vine Size	Vine Mat.	Total Yield	% #1s	% >10 ¹	% <4	% Culls	Merit Score	Specific Gravity	Tuber Shape	Tuber Weight	Skin Ccolor
Specialty Trial														
1 All Blue	92	1.7	4.1	2.5	481	66	6	34	3	3.5	1.084	Oblong	2.2	Purple
2 Yukon Gold	92	1.7	4.1	2.5	457	89	30	7	4	3.0	1.085	Oval	6.8	White
3 ATC98444-1R/Y	91	2.4	4.3	4.3	506	68	1	31	6	3.4	1.087	Oval	2.4	Red
4 ATC98495-1W/Y	79	2.9	4.0	3.6	483	76	13	19	5	2.8	1.084	Round	4.4	White
5 ATC98509-1R/Y	89	2.3	4.4	4.1	482	79	16	17	5	3.1	1.077	Oblong	3.6	Red
6 ATTX961014-1R/Y	86	2.2	3.5	2.7	444	84	15	15	2	3.7	1.078	Oblong	5.3	Red
7 ATTX98500-2P/Y	87	2.1	4.8	4.5	460	80	16	21	2	3.9	1.075	Round	2.8	Purple
8 CO97215-2P/P	87	2.3	4.2	4.1	386	68	8	28	4	2.8	1.083	Oval	2.8	Purple
9 CO97222-1R/R	91	2.5	3.6	3.3	417	62	7	29	9	3.0	1.071	Oblong	3.8	Red
10 CO97227-2P/PW	91	3.1	4.5	3.6	433	44	1	50	6	3.4	1.082	Oblong	2.6	Purple
11 CO97274-2W/Y	92	2.6	3.5	2.4	409	84	18	12	4	2.6	1.074	Oblong	5.3	White
Russet Trial														
12 Russet Norkotah	97	2.5	3.1	2.0	370	81	18	14	6	2.2	1.074	Long	7.0	Russet
13 Russet Norkotah 3	95	2.1	4.4	4.1	463	81	33	7	12	4.0	1.080	Long	6.8	Russet
14 Russet Norkotah 278	97	2.1	4.0	3.1	480	82	34	7	11	3.8	1.076	Long	7.2	Russet
15 AOTX95265-1RU	93	1.6	3.9	3.3	228	85	17	27	11	3.2	1.080	Ob-Long	8.2	Russet
16 AOTX95265-3RU	93	2.0	3.7	3.1	426	81	25	11	8	3.6	1.077	Ob-Long	6.2	Russet
17 AOTX95295-3RU	88	2.1	2.9	2.4	308	78	18	16	8	3.2	1.076	Long	6.2	Russet
18 AOTX98137-1RU	94	2.2	3.3	2.1	400	82	20	12	6	2.7	1.078	Oblong	7.1	Russet
19 ATX9117-1RU	91	2.2	4.3	3.9	414	75	21	8	16	1.8	1.093	Ob-Long	6.9	Russet
20 ATX9130-1RU	80	2.2	3.7	2.9	420	75	24	9	17	2.4	1.073	Ob-Long	7.6	Russet
21 ATX9202-3RU	93	1.5	4.4	4.0	405	77	14	15	8	2.5	1.076	Ob-Long	5.8	Russet
22 ATX97147-4RU	91	2.2	4.3	4.2	443	75	15	16	11	3.3	1.078	Long	6.1	Russet
23 CO97087-2RU	95	2.6	4.0	3.5	448	80	14	12	10	2.7	1.089	Oblong	6.0	Russet
24 CO97090-4RU	96	2.6	3.0	2.8	406	78	11	18	4	2.0	1.073	Oblong	5.5	Russet
25 CO97138-3RU	90	2.0	3.6	2.9	437	87	34	7	6	3.3	1.076	Oblong	8.2	Russet
26 CO97138-7RU	87	2.2	3.7	3.4	502	87	34	8	5	3.0	1.073	Oblong	7.9	Russet

Clone / Variety	Field Data				Yield Qualities					Merit			Tuber Description		
	% Stand	Stems/hill	Vine Size	Vine Mat.	Total Yield	% #1s	% >10 ¹	% <4	% Culls	Score	Specific Gravity	Tuber Shape	Tuber Weight	Skin Ccolor	
Red Trial															
27	Norland (Dark Red)	84	3.0	2.7	2.5	428	85	24	10	5	2.9	1.065	Oval	7.1	Red
28	Red LaSoda	88	2.0	4.5	3.7	569	82	32	8	10	2.4	1.072	Oval	6.8	Red
29	ATTX98453-6R	65	1.6	2.4	2.8	295	73	12	24	3	2.3	1.075	Oblong	3.8	Red
30	CO98012-5R	87	2.3	4.1	3.8	414	63	5	33	3	2.7	1.079	Round	2.9	Red
31	COTX94218-1R	80	3.5	3.6	4.5	470	73	8	26	2	4.0	1.085	Round	3.5	Red
32	COTX00104-7R	81	2.6	4.0	4.2	401	75	23	21	6	2.0	1.069	Oblong	2.8	Red
33	NDTX4784-7R	79	2.1	3.4	3.0	368	80	18	16	4	3.0	1.071	Round	4.0	Red
34	NDTX4828-2R	86	2.1	4.6	4.8	439	68	4	31	5	3.4	1.076	Oblong	3.2	Red
Chip Trial															
35	Atlantic	91	2.4	3.7	3.6	527	87	18	11	2	3.2	1.090	Round	0.0	Buff
36	Chipeta	92	2.7	4.5	4.5	573	88	33	6	6	4.3	1.079	Oval	0.0	White
37	ATDC9801-3P	94	2.5	4.4	3.6	530	77	8	22	3	2.6	1.091	Oval	0.0	Purple
38	CO98277-4W	91	3.0	3.1	2.8	448	75	8	19	6	2.0	1.063	Oval	0.0	White
39	TX1475-3W	91	2.3	4.4	3.2	515	93	35	5	3	2.7	1.074	Oblong	0.0	White

¹ KRN > 12 oz on Russets

Status of Entries following the Southwestern Regional Trial- 2007 Worksheet

Clone / Variety		Entered by	Status	Years in Trial	Average Total Yield			% of check
					2005	2006	Mean	
1	All Blue		Check	***		481	481	
2	Yukon Gold		Check	***	410	457	433	
3	ATC98444-1R/Y	Colorado		1		506	506	113
4	ATC98495-1W/Y	Colorado		1		483	483	108
5	ATC98509-1R/Y	Colorado		1		482	482	107
6	ATTX961014-1R/Y	Texas	Graduate	1		444	444	99
7	ATTX98500-2P/Y	Texas	Reenter	1		460	460	102
8	CO97215-2P/P	Colorado		1		386	386	86
9	CO97222-1R/R	Colorado		1		417	417	93
10	CO97227-2P/PW	Colorado		1		433	433	96
11	CO97274-2W/Y	Colorado		1		409	409	91
Russet Trial								
12	Russet Norkotah		Check	***		370	370	
13	Russet Norkotah 3		Check	***		463	463	
14	Russet Norkotah 278		Check	***		480	480	
15	AOTX95265-1RU	Texas		1		228	228	52
16	AOTX95265-3RU	Texas		1		426	426	97
17	AOTX95295-3RU	Texas		1		308	308	70
18	AOTX98137-1RU	Texas	Reenter	2	339	400	370	84
19	ATX9117-1RU	Texas		1		414	414	94
20	ATX9130-1RU	Texas		1		420	420	96
21	ATX9202-3RU	Texas		1		405	405	92
22	ATX97147-4RU	Texas	Reenter	1		443	443	101
23	CO97087-2RU	Colorado		1		448	448	102
24	CO97090-4RU	Colorado		1		406	406	93
25	CO97138-3RU	Colorado		1		437	437	100
26	CO97138-7RU	Colorado		1		502	502	115

Clone / Variety		Entered by		Years in Trial	2005	2006	Mean	% of check
Red Trial								
27	Norland (Dark Red)		Check	***		428	428	
28	Red LaSoda		Check	***		569	569	
29	ATTX98453-6R	Texas	Reenter	1		295	295	59
30	CO98012-5R	Colorado		1		414	414	83
31	COTX94218-1R	Texas	Reenter	1		470	470	94
32	COTX00104-7R	Texas	Reenter	1		401	401	80
33	NDTX4784-7R	Texas	Reenter	1		368	368	74
34	NDTX4828-2R	Texas		1		439	439	88
Chip Trial								
35	Atlantic		Check	***		527	527	
36	Chipeta		Check	***		573	573	
37	ATDC9801-3P	Colorado		1		530	530	96
38	CO98277-4W	Colorado		1		448	448	81
39	TX1475-3W	Texas	Graduate	1		515	515	94

New Entries								
	AOTX96265-1Ru	Texas						
	ATX97232-Ru	Texas						
	ATX9132-2Ru	Texas						

Description of Continuing/Proposed Clones for the 2007 Southwestern Regional Trial

Entry #	Clone/Cultivar	Parents		Flower Color	Vine Size	Maturity	Tuber Shape	Skin Type	Entered By	Use	Source	2006	
		Female	Male									Status	

Specialty Trial

1	All Blue	Unknown	Unknown	Blue	Large	Medium	Oblong	Purple	Check	Spec	CO	***	
2	Yukon Gold	Norgleam	W5279-4	Pink	Medium	Early	Oval	White	Check	Spec	CO	***	
3													
4													
5													
6													
7	ATX98500-2P/Y	P94A2-4Y	GRANOLA	Purple	Large	Late	Round	Purple	TX	Spec	TX	1	
8													
9													
10													
11													

Russet Trial

12	Russet Norkotah	ND9687-5RU	ND9526-4RU	White	Small	Early	Long	Russet	Check	Fresh	CO/TX f	***	
13	Russet Norkotah 3	ND9687-5RU	ND9526-4RU	White	Med-Large	Medium	Long	Russet	Check	Fresh	CO	***	
14	Russet Norkotah 278	ND9687-5RU	ND9526-4RU	White	Med-Large	Early-Med	Long	Russet	Check	Fresh	TX	***	
15													
16													
17	AOTX96265-1Ru												
18	AOTX98137-1RU	A8670-7	A93310-1	White	Med-Large	Early	Oblong	Russet	TX	Fresh	TX	2	PVY
19													
20													
21													
22	ATX97147-4RU	A79180-10	A88236-6	White	Medium	Early-Med	Long	Russet	TX	Fresh	TX	1	
23	ATX97232-1Ru												
24	ATX9132-2Ru												
25													
26													

Entry #	Clone/Cultivar	Parents		Flower Color	Vine Size	Maturity	Tuber Shape	Skin Type	Entered By	Use	Source	2006
		Female	Male									Status

Red Trial

27	Norland (Dark Red)	RedKote	ND626	Red-purple	Small	Early	Oval	Red	Check	Fresh	CO	***	
28	Red LaSoda	Triumph	Katahdin	Red-purple	Medium	Med	Oval	Red	Check	Fresh	CO/TX OWN	***	
29	ATTX98453-6R	A93490-1R	A91846-5R	Lavender	Med-Large	Early-Med	Oblong	Red	TX	Fresh	TX	1	
30													
31	COTX94218-1R	Red Ruby	Red Gold	Purple	Large	Medium	Round	Red	TX	Fresh	TX	1	
32	COTX00104-7R	ND3574-5R	CO86218-2	Lavender	Medium	Medium	Oblong	Red	TX	Fresh	TX	1	
33	NDTX4784-7R	ND3574-5R	ND2050-1R	Lavender	Medium	Med-Late	Round	Red	TX	Fresh	TX	1	
34													

Chip Trial

35	Atlantic	Wauseon	B5141-6	Red-Purple	Medium	Medium	Round	Buff	Check	Chip	CO	***	
36	Chipeta	WNC612-13	Wischip	Purple	Large	Med-Late	Oval	White	Check	Chip	CO	***	
37													
38													
39													

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