

# *2018 Southwestern Regional Potato Variety Trial Report*



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Description of Clones - 2018 Southwestern Regional Trial

Entry #	Clone/Cultivar	Parents		Flower Color	Vine Size	Maturity	Tuber Shape	Skin Type	Entered By	Use	Seed Source	2018 Year
		Female	Male									
<b>Russet Trial</b>												
1	Russet Norkotah	ND9687-5RU	ND9526-4RU	White	Small	Early	Long	Russet	Check	Fresh	??	***
2	CO10087-4RU	CO03367-1RU	Mercury Russet	White	Medium	Early	Oblong	Russet	CO	Dual	CO	1
3	CO10091-1RU	CO03371-4RU	CO98067-7RU	White	Medium	Medium	Oblong	Russet	CO	Dual	CO	1
<b>Red Trial</b>												
4	Chieftain	La 1354	Ia 1027-18	Lavender	Med-Large	Medium	Oblong	Lt. Red	Check	Fresh	CO	***
5	Red LaSoda	Triumph	Katahdin	Red-purple	Med	Medium	Oval	Lt. Red	Check	Fresh	CO	***
6	ATX02263-1R/Y	Inca Gold	A92653-6R	Lavender	Large	Late	Round	Red	TX	Fresh	CO	1
7	CO06215-2R	CO99256-2R	CO01156-1R	Red-purple	Large	Medium	Oval	Red	CO	Fresh	CO	1
<b>Specialty Trial</b>												
<b>Yellow Flesh</b>												
8	Yukon Gold	Norgleam	W5279-4	Pink	Medium	Early	Oval	White	Check	Spec	CO	***
9	AC10376-1W/Y	Gala	Granola	White	Large	Med-Late	Oval	White	CO	Spec	CO	1
10	CO10064-1W/Y	CO00412-5W/Y	CO04099-4W/Y	Purple	Large	Medium	Round	White	CO	Spec	CO	1
11	CO10097-2W/Y	CO04067-10W/Y	CO00412-5W/Y	White	Large	Medium	Round	White	CO	Spec	CO	1
12	CO10098-4W/Y	CO04099-3W/Y	CO04099-4W/Y	Dk red purple	Med-Large	Medium	Round	White	CO	Spec	CO	1
13	CO10098-5W/Y	CO04099-3W/Y	CO04099-4W/Y	Red purple	Medium	Medium	Oval	White	CO	Spec	CO	1
												1
<b>Chip Trial</b>												
14	Atlantic	Wauseon	B5141-6	Red-purple	Med	Medium	Oval	Scaley-buff	Check	Chip	CO	***
15	Snowden	B5141-6	Wischip	White	Large	Late	Oblong	White	Check	Chip	CO	***
16	CO10073-7W	CO02321-4W	CO02024-9W	White	Med-small	Medium	Round	White	CO	Chip	CO	1
17	CO10076-4W	CO03243-3W	CO02024-9W	White	Medium	Medium	Round	White	CO	Chip	CO	1

**Table 1. Locations, Cooperators, and Cultural Information**

Locations	Cooperators	Irrigation		Fertilizer N-P-K-S (lb./a)	Vine Kill Method	Planting Date	Vine Kill Date	Harvest Date	Days to Vine Kill	Herbicides	Pesticides Applied	
											Insecticides	Fungicides
1. Kern Co. California (KRN)	J. Nunez J. DuBose J. Sidhu											
2. Tulelake California (TUL)	R. Wilson D. Culp K. Nicholson	Solid-set sprinkler	All Trials	205-0-0	Reglone	5/21/2018	9/7/2018	10/8/2018	106	Prowl H2O Outlook Matrix SG	Admire Pro	Maxim 4FS Quadris Luna Tranquility
3. San Luis Valley Colorado (SLV)	D. Holm C. Gray K. Gaudreau	Pivot	All Trials	143-35-20-17-1	Reglone	5/10/2018	9/1/2018	9/27/2018	111	Eptam Tuscany Dual Magnum Prowl H2O	Pure Spray Green er Maxx Vibrance (Thiametho	Quadris Endura Champ Ion++ Agri Tin Cruiser Maxx Vibrance (Mefenoxam, Fludioxonil, Sedaxane)
4. Springlake Texas (SPR )	I. Vales C. Miller J. Koym D. Scheuring	Pivot	Red Yellow Flesh	124-43-37	Mechanical	3/21/2018 3/22/2018	6/26/2018 6/26/2018	7/2/2018 7/4/2018	95 94	Bronc Triple, Dual Magnum Matrix, Stealth, Makaze Brawl, Gly Star Original, Metribuzin 75 CA	Movento, Minecto Pro Transform WG, Sivanto Cruiser Maxx Vibrance	Scala Luna Tranquility NUCOP
5. Dalhart Texas (Dal )	I. Vales C. Miller J. Koym D. Scheuring	Pivot	Red Yellow Flesh Russet Chip	206-190-10	Reglone	5/15/2018 5/15/2018 5/15/2018 5/15/2018	8/29/2018 9/4/2018 9/4/2018 8/29/2018	9/17/2018 9/17/2018 9/24/2018 9/10/2018	104 109 109 104	Matrix SG Herbicide, Echo Zn Chateau Herbicide SW, Acumen K-Tone, Select Max, Tricor 4F, Reglone	Cruiser Maxx Vibrance Movento, Fulfill, Beleaf 50 SG Sivanto™ prime, Torac	Curzate 60DF Aframe, Luna Tranquility Penncozeb 75DF

**Table 2. Percent Stand and Stems/Hill**

Clone / Variety	Percent Stand					Stems per Hill			
	California	Colorado	Texas		Mean	Colorado	Texas	Mean	
	TUL	SLV	SPR	Dal		SLV	SPR		
<b>Russet Trial</b>									
1	Russet Norkotah	91	100		100	97	2.3		2.3
2	CO10087-4RU	89	95		100	95	2.1		2.1
3	CO10091-1RU	97	97		80	91	1.8		1.8
<b>Red Trial</b>									
4	Chieftain	100	83	96	100	95	2.5	2.0	2.3
5	Red LaSoda	100	98	99	100	99	2.7	2.2	2.5
6	ATX02263-1R/Y	70	73	63	100	77	2.9	1.8	2.4
7	CO06215-2R	100	96		100	99	2.8		2.8
<b>Specialty Trial</b>									
<b>Yellow Flesh</b>									
8	Yukon Gold	80	96	96	89	90	2.2	1.7	2.0
9	AC10376-1W/Y	100	100	99	89	97	2.7	1.7	2.2
10	CO10064-1W/Y	90	100	90	90	92	4.1	2.1	3.1
11	CO10097-2W/Y	100	99	90	96	96	4.0	2.1	3.0
12	CO10098-4W/Y	90	100	100	96	96	5.5	3.1	4.3
13	CO10098-5W/Y	70	92	71	47	70	5.1	1.9	3.5
<b>Chip Trial</b>									
14	Atlantic	93	86		92	90	2.4		2.4
15	Snowden		100		98	99	3.4		3.4
16	CO10073-7W	97	89		100	95	3.5		3.5
17	CO10076-4W	93	93		96	94	2.9		2.9
<b>Mean</b>		91	94	89	92	93	3.1	2.1	2.7

**Table 3. Vine Size and Maturity**

Clone / Variety	Vine Size (1-5=largest)				Vine Maturity (1-5=latest)				
	Colorado	Texas		Mean	Colorado	Texas		Mean	
	SLV	SPR	Dal		SLV	SPR	Dal		
<b>Russet Trial</b>									
1	Russet Norkotah	4.8		4.6	4.7	4.0		2.3	3.1
2	CO10087-4RU	2.3		4.3	3.3	2.0		2.8	2.4
3	CO10091-1RU	2.8		3.9	3.3	3.0		4.3	3.6
<b>Red Trial</b>									
4	Chieftain	3.3	3.6	4.5	3.8	3.3	3.5	3.6	3.5
5	Red LaSoda	3.5	3.8	4.9	4.1	3.0	4.2	4.5	3.9
6	ATX02263-1R/Y	2.8	2.6	4.6	3.3	3.0	3.8	3.8	3.5
7	CO06215-2R	2.8		4.8	3.8	3.0		3.9	3.5
<b>Specialty Trial</b>									
<b>Yellow Flesh</b>									
8	Yukon Gold	2.5	3.6	4.1	3.4	1.5	3.8	4.8	3.3
9	AC10376-1W/Y	3.0	2.7	4.3	3.3	3.5	4.0	4.8	4.1
10	CO10064-1W/Y	4.0	3.3	4.5	3.9	3.0	4.7	5.0	4.2
11	CO10097-2W/Y	2.8	3.5	4.4	3.5	2.8	3.7	4.4	3.6
12	CO10098-4W/Y	2.8	3.8	4.0	3.5	3.0	3.8	4.6	3.8
13	CO10098-5W/Y	2.3	2.2	3.5	2.6	3.0	4.3	5.0	4.1
<b>Chip Trial</b>									
14	Atlantic	2.5		4.7	3.6	3.0		4.1	3.6
15	Snowden	3.8		4.7	4.2	3.0		4.8	3.9
16	CO10073-7W	2.5		4.6	3.6	3.0		3.6	3.3
17	CO10076-4W	2.3		4.4	3.3	3.0		4.5	3.7
<b>Mean</b>		3.0	3.2	4.4	3.6	2.9	4.0	4.1	3.6

**Table 4. Total Yield, Yield Rank Within Type (Specialty, Russet, Red, and Chip), and Merit Score1 (MS)**

Clone / Variety	California						Colorado			Texas						Mean		
	KRN		TUL			SLV			SPR			DAL			Cwt/A	Rank	MS	
	Cwt/A	Rank	Cwt/A	Rank	MS	Cwt/A	Rank	MS	Cwt/A	Rank	MS	Cwt/A	Rank	MS	Cwt/A	Rank	MS	
<b>Russet Trial</b>																		
1	Russet Norkotah	152	3	361	1	3.9	604	1	4.0				523	1	4.6	410	1	4.2
2	CO10087-4RU	201	1	298	3	3.8	330	3	2.0				418	2	3.9	312	3	3.2
3	CO10091-1RU	159	2	359	2	3.0	409	2	4.0				324	3	3.6	313	2	3.5
<b>Red Trial</b>																		
4	Chieftain	202	3	632	1	3.8	458	2	2.0	176	1	3.7	543	3	3.9	402	3	3.3
5	Red LaSoda	218	2	613	2	2.5	640	1	3.0	160	2	3.5	713	1	3.8	469	1	3.2
6	ATX02263-1R/Y	134	4	426	4	2.6	396	4	1.0	78	3	2.6	429	4	3.9	292	4	2.5
7	CO06215-2R	221	1	546	3	3.8	440	3	1.0				586	2	4.3	448	2	3.0
<b>Specialty Trial</b>																		
<b>Yellow Flesh</b>																		
8	Yukon Gold	194	2	438	4	3.5	350	6	1.0	194	1	4.2	328	3	3.0	301	4	2.9
9	AC10376-1W/Y	170	3	526	1	2.0	446	3	4.0	117	5	3.0	402	2	3.5	332	2	3.1
10	CO10064-1W/Y	124	5	487	3	4.0	473	1	5.0	145	4	3.6	312	5	3.5	308	3	4.0
11	CO10097-2W/Y	228	1	511	2	2.3	464	2	5.0	162	3	3.9	502	1	4.4	373	1	3.9
12	CO10098-4W/Y	152	4	429	5	2.9	400	4	3.0	182	2	3.5	312	4	3.7	295	5	3.3
13	CO10098-5W/Y	102	6	322	6	2.1	352	5	1.0	63	6	2.5	100	6	1.6	188	6	1.8
<b>Chip Trial</b>																		
14	Atlantic	215	2	438	1	3.4	376	3	3.0				428	4	3.6	364	4	3.3
15	Snowden	218	1				458	1	5.0				576	2	4.0	417	1	4.5
16	CO10073-7W	197	4	403	2	3.5	364	4	1.0				579	1	4.2	386	3	2.9
17	CO10076-4W	213	3	388	3	2.6	413	2	4.0				569	3	4.1	396	2	3.6
<b>Mean</b>		182		448		3.1	434		2.9	142		3.4	450		3.7	353		3.3

**Table 5. Yield and Percent of U.S. No. 1's (>4oz.) and Yield Rank Within Type (Specialty, Russet, Red, and Chip)**

Clone / Variety	California						Colorado <sup>1</sup>			Texas <sup>2</sup>						Mean		
	KRN			TUL			SLV			SPR			DAL					
	Cwt/A	Rank	%	Cwt/A	Rank	%	Cwt/A	Rank	%	Cwt/A	Rank	%	Cwt/A	Rank	%	Cwt/A	Rank	%
<b>Russet Trial</b>																		
1 Russet Norkotah	105	1	69	246	1	68	551	1	91				421	1	80	331	1	77
2 CO10087-4RU	104	2	52	227	3	76	311	3	94				290	2	69	233	3	73
3 CO10091-1RU	96	3	61	242	2	67	372	2	91				235	3	72	236	2	73
<b>Red Trial</b>																		
4 Chieftain	141	3	70	524	1	83	434	2	95	122	1	69	453	2	84	335	2	80
5 Red LaSoda	185	1	85	457	2	74	578	1	90	94	2	59	533	1	75	369	1	77
6 ATX02263-1R/Y	57	4	42	211	4		304	4	77	2	3	3	163	4	38	148	4	40
7 CO06215-2R	163	2	74	386	3		357	3	81				429	3	73	334	3	76
<b>Specialty Trial</b>																		
<b>Yellow Flesh</b>																		
8 Yukon Gold	145	2	75	356	2	81	315	4	90	144	1	74	239	2	73	240	2	79
9 AC10376-1W/Y	79	3	46	203	5	39	332	2	74	8	4	7	171	4	43	159	4	42
10 CO10064-1W/Y	49	6	39	252	3	52	328	3	69	9	3	6	183	3	59	164	3	45
11 CO10097-2W/Y	148	1	65	377	1	74	363	1	78	40	2	25	368	1	73	259	1	63
12 CO10098-4W/Y	56	4	37	206	4	48	140	6	35	2	5	1	133	5	43	107	5	33
13 CO10098-5W/Y	51	5	50	156	6		153	5	43	0	6	0	4	6	4	73	6	24
<b>Chip Trial</b>																		
14 Atlantic	166	1	77	362	1		343	3	91				346	3	81	304	2	83
15 Snowden	157						391	1	85				393	1	68	313	1	77
16 CO10073-7W	144	4	73	258	3		297	4	82				353	2	61	263	4	72
17 CO10076-4W	147	3	69	271	2		361	2	87				344	4	60	281	3	72
<b>Mean</b>	117		62	296		66	349		80	47		27	298		62	244		64



**Table 6. Yield and Percent of U.S. No. 1's (>10oz.)**

Clone / Variety	California				Colorado <sup>3</sup>		Texas				Mean		
	KRN <sup>1</sup>		TUL <sup>2</sup>		SLV		SPR <sup>4</sup>		DAL		Mean		
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	
<b>Russet Trial</b>													
1	Russet Norkotah	0	0	63	17	462	76			156	30	170	31
2	CO10087-4RU	0	0	35	12	90	27			137	33	65	18
3	CO10091-1RU	0	0	20	6	124	30			36	11	45	12
<b>Red Trial</b>													
4	Chieftain	0	0	143	23	222	49	4	2	172	32	108	21
5	Red LaSoda	0	0	202	33	427	67	14	9	345	48	197	31
6	ATX02263-1R/Y	0	0	11	3	39	10	0	0	11	3	12	3
7	CO06215-2R	0	0	61	11	51	12			101	17	53	10
<b>Specialty Trial</b>													
<b>Yellow Flesh</b>													
8	Yukon Gold	0	0	151	34	127	36	0	0	135	41	82	22
9	AC10376-1W/Y	0	0	5	1	56	12	0	0	0	0	12	3
10	CO10064-1W/Y	0	0	12	2	22	5	0	0	17	5	10	2
11	CO10097-2W/Y	0	0	45	9	40	9	0	0	61	12	29	6
12	CO10098-4W/Y	0	0	7	2	4	1	0	0	3	1	3	1
13	CO10098-5W/Y	0	0	3	1	17	5	0	0	0	0	4	1
<b>Chip Trial</b>													
14	Atlantic	0	0	63	14	129	34			143	33	84	21
15	Snowden	0	0			62	14			45	8	36	7
16	CO10073-7W	0	0	10	3	46	13			17	3	18	5
17	CO10076-4W	0	0	11	3	54	13			5	1	17	4
<b>Mean</b>		0	0	53	11	116	24	2	1	81	16	56	12

<sup>1</sup> > 11oz

<sup>2</sup> >14oz

**Table 7. Yield and Percent of U.S. No. 1's (6 - 10oz.)**

Clone / Variety	California				Texas				Mean		
	KRN		TUL		SPR		DAL		Cwt/A	%	
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%			
<b>Russet Trial</b>											
1	Russet Norkotah	8	5	101	28			172	33	94	22
2	CO10087-4RU	0	0	108	36			119	28	75	22
3	CO10091-1RU	1	1	111	31			97	30	70	20
<b>Red Trial</b>											
4	Chieftain	4	2	258	41	68	39	114	21	111	26
5	Red LaSoda	28	13	192	31	32	20	179	25	108	22
6	ATX02263-1R/Y	3	2	79	19	1	1	51	12	33	8
7	CO06215-2R	1	1	194	35			152	26	116	21
<b>Specialty Trial</b>											
<b>Yellow Flesh</b>											
8	Yukon Gold	10	5	142	32	48	25	82	25	71	22
9	AC10376-1W/Y	4	2	62	12	2	1	41	10	27	6
10	CO10064-1W/Y	0	0	105	21	1	1	66	21	43	11
11	CO10097-2W/Y	0	0	175	34	8	5	128	25	78	16
12	CO10098-4W/Y	0	0	74	17	0	0	32	10	26	7
13	CO10098-5W/Y	0	0	63	19	0	0	0	0	16	5
<b>Chip Trial</b>											
14	Atlantic	21	10	194	44			121	28	112	27
15	Snowden	0	0					171	30	86	15
16	CO10073-7W	2	1	100	25			118	20	73	15
17	CO10076-4W	2	1	132	34			127	22	87	19
<b>Mean</b>		5	3	131	29	18	10	104	22	72	17

<sup>1</sup> 4-10 oz

**Table 8. Yield and Percent of U.S. No. 1's (4 - 6 oz.)**

Clone / Variety	California				Texas				Mean		
	KRN		TUL		SPR		DAL		Cwt/A	%	
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%			
<b>Russet Trial</b>											
1	Russet Norkotah	97	64	82	23			111	21	96	36
2	CO10087-4RU	104	52	85	29			44	11	78	30
3	CO10091-1RU	95	60	111	31			102	31	102	41
<b>Red Trial</b>											
4	Chieftain	138	68	122	19	50	28	179	33	122	37
5	Red LaSoda	156	72	63	10	48	30	141	20	102	33
6	ATX02263-1R/Y	54	40	121	28	2	2	102	24	69	24
7	CO06215-2R	162	74	132	24			176	30	157	43
<b>Specialty Trial</b>											
<b>Yellow Flesh</b>											
8	Yukon Gold	135	70	63	14	75	39	49	15	81	34
9	AC10376-1W/Y	75	44	137	26	7	6	129	32	87	27
10	CO10064-1W/Y	49	39	136	28	8	6	101	32	73	26
11	CO10097-2W/Y	148	65	157	31	32	20	183	36	130	38
12	CO10098-4W/Y	56	37	124	29	2	1	99	32	70	25
13	CO10098-5W/Y	51	50	91	28	0	0	4	4	36	21
<b>Chip Trial</b>											
14	Atlantic	146	68	105	24			98	23	116	38
15	Snowden	157	72					180	31	168	51
16	CO10073-7W	142	72	148	37			218	38	169	49
17	CO10076-4W	145	68	128	33			213	37	162	46
<b>Mean</b>		112	60	113	26	25	15	125	26	107	35

**Table 9. Yield and Percent B (<4 oz.) Tubers**

Clone / Variety	California				Colorado		Texas				Mean		
	KRN		TUL		SLV		SPR		DAL		Mean		
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	
<b>Russet Trial</b>													
1	Russet Norkotah	47	31	87	24	20	3			43	8	49	17
2	CO10087-4RU	94	47	61	20	18	5			39	9	53	20
3	CO10091-1RU	61	39	110	31	35	9			79	24	71	26
<b>Red Trial</b>													
4	Chieftain	57	28	73	12	21	5	52	30	78	14	56	18
5	Red LaSoda	22	10	43	7	33	5	56	35	48	7	40	13
6	ATX02263-1R/Y	77	57	176	41	90	23	72	93	266	62	136	55
7	CO06215-2R	53	24	143	26	82	19			157	27	109	24
<b>Specialty Trial</b>													
<b>Yellow Flesh</b>													
8	Yukon Gold	31	16	51	12	30	9	48	25	15	5	35	13
9	AC10376-1W/Y	72	43	290	55	101	23	90	77	182	45	147	49
10	CO10064-1W/Y	67	54	209	43	136	29	131	91	120	39	133	51
11	CO10097-2W/Y	80	35	129	25	99	21	122	75	127	25	111	36
12	CO10098-4W/Y	94	62	193	45	256	64	136	75	169	54	169	60
13	CO10098-5W/Y	45	44	121	38	192	55	32	51	57	58	89	49
<b>Chip Trial</b>													
14	Atlantic	41	19	51	12	26	7			63	15	45	13
15	Snowden	61	28			56	12			180	31	99	24
16	CO10073-7W	39	20	125	31	58	16			226	39	112	26
17	CO10076-4W	62	29	104	27	47	11			225	40	110	27
<b>Mean</b>		59	34	123	28		18	82	61	122	30	92	31

**Table 10. Yield and Percent Culls/No. 2s**

Clone / Variety	California				Colorado		Texas				Mean		
	KRN		TUL <sup>1</sup>		SLV		SPR		DAL		Mean		
	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	Cwt/A	%	
<b>Russet Trial</b>													
1	Russet Norkotah	1	1	27	7	33	5			41	8	25	5
2	CO10087-4RU	3	1	10	3	1	0			79	19	23	6
3	CO10091-1RU	1	1	6	2	2	0			11	3	5	2
<b>Red Trial</b>													
4	Chieftain	3	2	34	5	3	1	2	1	0	0	8	2
5	Red LaSoda	11	5	114	19	29	5	10	6	0	0	33	7
6	ATX02263-1R/Y	0	0	40	9	2	0	4	5	0	0	9	3
7	CO06215-2R	4	2	17	3	1	0			0	0	6	1
<b>Specialty Trial</b>													
<b>Yellow Flesh</b>													
8	Yukon Gold	18	9	31	7	4	1	2	1	47	14	20	7
9	AC10376-1W/Y	19	11	33	6	13	3	18	16	49	12	27	10
10	CO10064-1W/Y	8	6	27	5	10	2	5	3	9	3	11	4
11	CO10097-2W/Y	0	0	5	1	3	1	0	0	3	1	2	0
12	CO10098-4W/Y	2	1	29	7	4	1	44	24	11	3	18	7
13	CO10098-5W/Y	7	6	45	14	7	2	31	49	38	38	26	22
<b>Chip Trial</b>													
14	Atlantic	8	4	26	6	6	2			3	1	11	3
15	Snowden	1	0			11	2			0	0	4	1
16	CO10073-7W	14	7	20	5	9	2			0	0	11	4
17	CO10076-4W	4	2	13	3	5	1			0	0	5	2
<b>Mean</b>		6	3	30	6	2		13	12	17	6	14	5

<sup>1</sup> includes over 16 oz tubers

**Table 11. Specific Gravity**

Clone / Variety	California	Colorado	Texas		Mean
	TUL	SLV	SPR	DAL	
<b>Russet Trial</b>					
1 Russet Norkotah	1.089	1.083		1.058	1.077
2 CO10087-4RU	1.103	1.097		1.076	1.092
3 CO10091-1RU	1.101	1.088		1.073	1.087
<b>Red Trial</b>					
4 Chieftain	1.088	1.076	1.062	1.066	1.073
5 Red LaSoda	1.092	1.085	1.056	1.060	1.073
6 ATX02263-1R/Y	1.090	1.086	1.058	1.067	1.075
7 CO06215-2R	1.088	1.094		1.071	1.084
<b>Specialty Trial</b>					
<b>Yellow Flesh</b>					
8 Yukon Gold	1.088	1.090	1.070	1.071	1.080
9 AC10376-1W/Y	1.088	1.082	1.061	1.062	1.073
10 CO10064-1W/Y	1.090	1.098	1.076	1.085	1.087
11 CO10097-2W/Y	1.093	1.078	1.067	1.069	1.077
12 CO10098-4W/Y	1.083	1.101	1.078	1.084	1.086
13 CO10098-5W/Y	1.090	1.107	1.074	1.085	1.089
<b>Chip Trial</b>					
14 Atlantic	1.104	1.098		1.091	1.098
15 Snowden		1.094		1.075	1.084
16 CO10073-7W	1.089	1.086		1.073	1.083
17 CO10076-4W	1.085	1.084		1.070	1.080
<b>Mean</b>	1.091	1.090	1.067	1.073	1.082

Table 12. Average Tuber Weight (Size) and Shape

Clone / Variety	Weight (oz.)				Shape <sup>1</sup>					Length / Width	Length / Width	Length / Width	Length / Width	Length / Width	Width / Thickness	Width / Thickness	Width / Thickness	Width / Thickness	
	California	Texas			California	Colorado	Texas			California	Colorado	Texas			Colorado	Texas			
	TUL	SPR	DAL	Mean	TUL	SLV	SPR	DAL	Mean	TUL	SLV	SPR	DAL	Mean	SLV	SPR	DAL	Mean	
<b>Russet Trial</b>																			
1	Russet Norkotah	4.9		7.2	6.0	4.0	4.0		4.6	4.2	1.85	1.88		2.14	1.96	1.17		1.17	1.17
2	CO10087-4RU	5.1		8.1	6.6	4.0	3.0		4.1	3.7	1.87	1.70		1.87	1.81	1.17		1.14	1.16
3	CO10091-1RU	4.4		5.5	4.9	3.1	2.0		2.9	2.7	1.43	1.43		1.60	1.49	1.20		1.24	1.22
<b>Red Trial</b>																			
4	Chieftain	6.2	3.9	5.6	5.2	2.3	2.0	2.0	2.5	2.2	1.15	1.20	1.09	1.12	1.14	1.26	1.24	1.26	1.25
5	Red LaSoda	7.5	3.7	7.6	6.3	2.1	1.0	2.0	2.7	2.0	1.12	1.05	1.12	1.21	1.13	1.38	1.16	1.23	1.26
6	ATX02263-1R/Y	3.5	1.5	2.8	2.6	3.3	2.0	2.1	2.5	2.5	1.32	1.30	1.12	1.30	1.26	1.12	1.14	1.17	1.14
7	CO06215-2R	4.3		4.6	4.5	1.9	1.0		2.1	1.7	1.07	1.08		1.11	1.09	1.27		1.18	1.23
<b>Specialty Trial</b>																			
<b>Yellow Flesh</b>																			
8	Yukon Gold	6.4	4.4	8.9	6.6	2.5	1.0	2.0	2.6	2.0	1.15	1.14	1.09	1.17	1.14	1.17	1.27	1.27	1.24
9	AC10376-1W/Y	3.0	1.8	3.1	2.7	2.9	2.0	1.4	2.0	2.1	1.28	1.18	1.07	1.34	1.22	1.23	1.13	1.17	1.18
10	CO10064-1W/Y	3.4	1.5	3.7	2.9	1.6	1.0	1.0	2.0	1.4	1.02	1.03	1.06	1.15	1.07	1.35	1.19	1.22	1.26
11	CO10097-2W/Y	4.6	2.4	4.7	3.9	1.3	2.0	1.0	1.4	1.4	0.80	1.16	1.10	1.12	1.05	1.11	1.10	1.14	1.12
12	CO10098-4W/Y	3.1	1.2	2.8	2.4	1.3	1.0	1.0	1.0	1.1	1.02	1.03	1.06	1.12	1.06	1.28	1.18	1.21	1.22
13	CO10098-5W/Y	3.6	1.0	3.2	2.6	3.3	2.0	1.5	2.5	2.3	1.33	1.16	1.05	1.48	1.26	1.26	1.19	1.18	1.21
<b>Chip Trial</b>																			
14	Atlantic	5.9		3.7	4.8	1.3	1.0		2.3	1.5	1.01	1.13		1.10	1.08	1.17		1.19	1.18
15	Snowden			4.8	4.8		1.0		2.0	1.5		1.02		1.03	1.03	1.25		1.21	1.23
16	CO10073-7W	4.2		3.7	4.0	1.5	1.0		1.5	1.3	1.07	1.08		1.06	1.07	1.25		1.20	1.22
17	CO10076-4W	4.5		3.7	4.1	1.0	1.0		1.1	1.0	0.99	0.99		1.06	1.02	1.24		1.17	1.20
<b>Mean</b>		4.7	2.4	4.9	4.4	2.3	1.6	1.6	2.3	2.0	1.22		1.09	1.29	1.23	1.23	1.18	1.20	1.20

<sup>1</sup> 1=round to 5 =long

**Table 13. Eye Depth and Growth Cracks**

Clone / Variety	Eye Depth <sup>1</sup>				Growth Cracks <sup>2</sup>				Mean	
	California	Texas		Mean	California	Colorado	Texas			
	TUL	SPR	DAL		TUL <sup>3</sup>	SLV	SPR	DAL		
<b>Russet Trial</b>										
1	Russet Norkotah	3.9		3.9	3.9	1.9	4.0		5.0	4.5
2	CO10087-4RU	4.6		4.0	4.3	0.7	4.0		3.4	3.7
3	CO10091-1RU	4.4		4.3	4.3	0.7	4.0		4.5	4.3
<b>Red Trial</b>										
4	Chieftain	3.4	3.8	3.8	3.7	0.1	5.0	5.0	5.0	5.0
5	Red LaSoda	2.5	2.8	3.5	2.9	5.0	4.0	4.9	4.8	4.5
6	ATX02263-1R/Y	4.3	4.1	4.0	4.1	0.1	4.0	5.0	5.0	4.7
7	CO06215-2R	4.1		4.5	4.3	0.1	5.0		5.0	5.0
<b>Specialty Trial</b>										
<b>Yellow Flesh</b>										
8	Yukon Gold	4.1	3.8	4.0	4.0	0.2	4.0	5.0	4.5	4.5
9	AC10376-1W/Y	3.9	4.0	4.0	4.0	0.1	5.0	5.0	5.0	5.0
10	CO10064-1W/Y	4.0	4.0	4.0	4.0	0.1	5.0	5.0	5.0	5.0
11	CO10097-2W/Y	4.0	4.8	4.0	4.3	0.1	5.0	4.5	5.0	4.8
12	CO10098-4W/Y	3.3	5.0	4.0	4.1	0.0	5.0	5.0	5.0	5.0
13	CO10098-5W/Y	3.9	5.0	4.0	4.3	1.2	5.0	5.0	5.0	5.0
<b>Chip Trial</b>										
14	Atlantic	3.3		4.0	3.7	0.3	4.0		5.0	4.5
15	Snowden			3.6	3.6		4.0		5.0	4.5
16	CO10073-7W	4.3		4.0	4.2	1.3	4.0		5.0	4.5
17	CO10076-4W	4.0		4.0	4.0	1.2	4.0		5.0	4.5
<b>Mean</b>		3.9	4.1	4.0	4.0	0.8	4.4	4.9	4.8	4.6

<sup>1</sup> 1=deep to 5=shallow

<sup>2</sup> 1 to 5=none

<sup>3</sup> % of total count



**Table 14. Percent Hollow Heart/Brown Center, Blackspot Bruising, Fry Data**

Clone / Variety	Hollow Heart/Brown Center (%)					Vert Wilt Rating		Blackspot Bruising		Fry Data <sup>4</sup>		
	California	Colorado	Texas		Mean	Rating <sup>10</sup>	AUDPC <sup>1</sup>	California	Colorado	Colorado		
	TUL	SLV	SPR	DAL		TUL	TUL <sup>2</sup>	SLV <sup>3</sup>	SLV <sup>5</sup>	SLV <sup>6</sup>	MS <sup>7</sup>	
<b>Russet Trial</b>												
1 Russet Norkotah	10	7		13	10	8	872	8.0	5.0	4.0	2.0	2.0
2 CO10087-4RU	40	0		8	16	8	790	5.0	4.6	1.0	2.0	3.0
3 CO10091-1RU	18	0		0	6	6	409	0.0	5.0	1.0	2.0	5.0
<b>Red Trial</b>												
4 Chieftain	5	1	0	0	1	6	476	8.0	3.8	3.0	3.0	1.0
5 Red LaSoda	5	11	0	0	4	5	184	3.0	3.8	2.0	3.0	1.0
6 ATX02263-1R/Y	0	0	0	0	0	7	627	0.0	4.4	5.0	3.0	1.0
7 CO06215-2R	0	0		0	0	7	629	0.0	4.8	1.0	1.0	3.0
<b>Specialty Trial</b>												
<b>Yellow Flesh</b>												
8 Yukon Gold	10	0	0	13	6	8	1134	3.0	5.0	1.0	1.0	1.0
9 AC10376-1W/Y	3	0	0	0	1	6	505	3.0	4.9	4.0	2.0	2.0
10 CO10064-1W/Y	0	0	0	0	0	6	371	5.0	4.2	5.0	5.0	5.0
11 CO10097-2W/Y	0	0	0	5	1	6	508	8.0	3.7	5.0	5.0	5.0
12 CO10098-4W/Y	18	0	0	0	5	6	454	5.0	2.0	3.0	4.0	4.0
13 CO10098-5W/Y	0	0	0	0	0	7	746	5.0	3.7	1.0	2.0	2.0
<b>Chip Trial</b>												
14 Atlantic	0	2		15	6	8	861	0.0	2.8			1.0
15 Snowden		1		13	7				2.8			5.0
16 CO10073-7W	0	0		23	8	7	833	3.0	3.7			3.0
17 CO10076-4W	0	0		3	1	7	707	8.0	2.5			5.0
<b>Mean</b>	7	1	0	5	4	7	632	4.0	3.9	2.8	2.7	2.9

<sup>1</sup>Area Under Disease Progress Curve based on foliar early-dying rating taken 77, 83, 89, 96, 104 and 110 days after planting. Higher value is more susceptible

<sup>2</sup> Percent

<sup>3</sup> 1 to 5=none

<sup>4</sup> 0=light, 5= dark

<sup>5</sup> at harvest

<sup>6</sup> 0=light, 5=dark, stored at 45F for 11 weeks

<sup>7</sup> Process Merit Score, 1-5=excellent

<sup>10</sup> 0 to 9=dead

**Table 15. Vigor and Flesh Color**

Clone / Variety	Vigor <sup>1</sup>				Flesh Color <sup>2</sup>				
	Colorado SLV	Texas		Mean	California TUL	Colorado SLV	Texas		Mean
	SPR	DAL			SPR	DAL			
<b>Russet Trial</b>									
1 Russet Norkotah	2.0		4.6	3.3		1.0		1.0	1.0
2 CO10087-4RU	3.8		4.3	4.0		1.0		1.0	1.0
3 CO10091-1RU	2.8		3.5	3.1		1.0		1.0	1.0
<b>Red Trial</b>									
4 Chieftain	3.8	3.6	4.5	4.0	1.1	1.0	1.0	1.0	1.0
5 Red LaSoda	3.8	3.8	4.8	4.1	1.5	1.0	1.0	1.0	1.1
6 ATX02263-1R/Y	2.8		4.6	3.7	2.5	3.0		3.0	2.8
7 CO06215-2R	3.0		4.8	3.9	1.0	1.0		1.0	1.0
<b>Specialty Trial</b>									
<b>Yellow Flesh</b>									
8 Yukon Gold	3.3	3.7	4.0	3.6	3.0	2.0	3.5	2.8	2.8
9 AC10376-1W/Y	2.0	2.6	4.0	2.9	4.0	4.0	3.5	3.4	3.7
10 CO10064-1W/Y	2.8	3.2	4.5	3.5	3.8	4.0	3.1	3.3	3.5
11 CO10097-2W/Y	2.8	3.4	4.4	3.5	3.3	4.0	3.5	3.8	3.7
12 CO10098-4W/Y	2.5	3.8	4.0	3.4	3.8	4.0	4.0	4.3	4.0
13 CO10098-5W/Y	3.3	1.8	1.8	2.3	5.0	5.0	4.7	4.8	4.9
<b>Chip Trial</b>									
14 Atlantic	2.8		4.5	3.6		1.0		1.0	1.0
15 Snowden	4.0		4.7	4.3		1.0		1.0	1.0
16 CO10073-7W	2.5		4.6	3.6		1.0		1.0	1.0
17 CO10076-4W	2.5		4.2	3.4		1.0		1.0	1.0
<b>Mean</b>	2.9	3.2	4.2	3.5	2.9	2.1	3.0	2.1	2.1

<sup>1</sup> 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

<sup>2</sup> 1=light to 5=dark

Table 16. Notes

Clone / Variety		Texas	
		SPR	DAL
<b>Russet Trial</b>			
1	Russet Norkotah		Some moon shapes, nice size and shape, Nice russet skin, BOT, Several with damaged skin, enlarged lenticels, high tuber number
2	CO10087-4RU		Knobs++, growth cracks, high tuber number, not uniform size, Some nice shapes+, nice skin+, 70% SE, growth cracks, nice shape
3	CO10091-1RU		Small roundish, some blocky+, enlarged lenticels, pointy, skin with bee hives area, medium size+, uniform shape and size, very few tubers, not uniform russet skin
<b>Red Trial</b>			
4	Chieftain	light skin, Nice+, Good Yield	Nice, Silver scurf, a little flat+
5	Red LaSoda	light skin, Very deep eyes, heat sprouts, Sticky stolons+, Chain tubers	Large variation in shape, large tubers High tuber number, Pear shape+, small, smooth skin, High tuber number, uniform size, rain drop shape
6	ATX02263-1R/Y	Intense red skin++, Low tuber set++, Small, pear shape	
7	CO06215-2R		Nice, shallow eye, intense skin color, Stem end+, Shiny, smooth
<b>Specialty Trial</b>			
<b>Yellow Flesh</b>			
7	Yukon Gold	Nice, Large tubers+++ , heavy, high tuber set	Bulging eyes, large, snaps, Lenticels, not uniform shape nor size, ugly, snaps, Very large KNOBS, large ugly
8	AC10376-1W/Y	Very few tubers, Secondary growth+	Knobs+++ , high tuber number+, Small+, angular+, pointed
9	CO10064-1W/Y	Small+, Pink eyes+	Few tubers, small, Uniform size, pointy
10	CO10097-2W/Y	Nice, watery flesh, soapy flesh++, Medium size+, nice, Good size, russetting, Uniform size and shape	Buff skin+, uniform size and shape++, snaps, High tuber number, nice
11	CO10098-4W/Y	Not uniform size, late?, Small	Skin blemishes, small uniform size+, internal heat necrosis+, knobs
12	CO10098-5W/Y	Soapy flesh, Knobs+++ , very very intense flesh, snowmen, beautiful flesh	Very few tubers++, Knobs+++ , DROP++, VERY intense dark yellow flesh
<b>Chip Trial</b>			
13	Atlantic		Very large++, Not uniform size and shape, ugly, rough
14	Snowden		Nice, medium size tubers, Large, buff skin+, russet skin, some attached stolons+, rough looks, high yield
15	CO10073-7W		Green heads, Uniform size+ and shape, nice, buff skin, medium size+, high tuber set, some large
16	CO10076-4W		Knobs, medium-large tubers, high tuber set, flesh browns fast, nice, some attached stolons, uniform size and shape

**Table 17. Notes**

Clone / Variety	Colorado	California
	SLV	TUL
<b>Russet Trial</b>		
1	Russet Norkotah	
2	CO10087-4RU	Round tuber shape, heavy russet
3	CO10091-1RU	Nice tuber shape
<b>Red Trial</b>		
4	Chieftain	
5	Red LaSoda	
6	ATX02263-1R/Y	Pointy, heavy russetting
7	CO06215-2R	Deep red skin color, good fresh market appearance
<b>Specialty Trial</b>		
<b>Yellow Flesh</b>		
7	Yukon Gold	
8	AC10376-1W/Y	Irregular pink discoloration on skin, heavy russetting
9	CO10064-1W/Y	Heavy russetting, pink eyes
10	CO10097-2W/Y	Shatter Bruise Looks like chip, prone to shatter bruise and black dot
11	CO10098-4W/Y	Nice tuber shape, darker than Y.Gold
12	CO10098-5W/Y	Orange tinge to skin color
<b>Chip Trial</b>		
13	Atlantic	Some Shatter Bruise
14	Snowden	
15	CO10073-7W	Pink eyes, flat/pancake shape
16	CO10076-4W	Pink discoloration on skin

**Table 18. Colorado and Texas Chipping Results**

Clone / Variety	Chip Color <sup>1</sup> Colorado				Chip Color <sup>1</sup> Texas		
	40F <sup>2</sup>	R40F <sup>2</sup>	50F <sup>3</sup>	R50F <sup>3</sup>	Field <sup>4</sup>	42F <sup>2</sup>	R42F <sup>2</sup>
10 Atlantic	5.0	3.5	3.5	3.0	1.3	2.9	1.5
11 Chipeta	4.0	2.0	2.0	1.0	1.3	1.9	1.4
12 CO07070-10W	3.5	1.5	2.0	1.5	1.0	1.0	1.1
13 CO07070-13W	3.5	1.5	2.0	2.5	1.5	1.2	1.0

<sup>1</sup> 1=light, 5=dark

<sup>2</sup>40<sup>0</sup>F Storage protocol prior to frying

Initial storage temperature 55<sup>0</sup>F

Holding temperature 40<sup>0</sup>F

Weeks to holding temperature 4

Weeks at holding temperature 6

Reconditioning temp. (if applicable) 60<sup>0</sup>F

Number of weeks reconditioning 3

<sup>3</sup>50<sup>0</sup>F Storage protocol prior to frying

Initial storage temperature 55<sup>0</sup>F

Holding temperature 50<sup>0</sup>F

Weeks to holding temperature 4

Weeks at holding temperature 6

Reconditioning temp. (if applicable) 60<sup>0</sup>F

Number of weeks reconditioning 3

<sup>4</sup> Chipped immediately following harvest

<sup>5</sup> Chip notes

**Table 19. Summary**

Clone / Variety	Field Data				Yield Qualities					Tuber Description					
	% Stand	Stems/hill	Vine Size	Vine Mat.	Total Yield	% #1s	% >10 <sup>1</sup>	% <4	% Culls	Merit Score	Specific Gravity	Tuber Shape	Tuber Weight	Skin Color	
<b>Russet Trial</b>															
1	Russet Norkotah	97	2.3	4.7	3.1	410	77	31	17	5	4.2	1.077	Long	6.0	Russet
2	CO10087-4RU	95	2.1	3.3	2.4	312	73	18	20	6	3.2	1.092	Oblong	6.6	Russet
3	CO10091-1RU	91	1.8	3.3	3.6	313	73	12	26	2	3.5	1.087	Oblong	4.9	Russet
<b>Red Trial</b>															
4	Chieftain	95	2.3	3.8	3.5	402	80	21	18	2	3.3	1.073	Oblong	5.2	Lt. Red
5	Red LaSoda	99	2.5	4.1	3.9	469	77	31	13	7	3.2	1.073	Oval	6.3	Lt. Red
6	ATX02263-1R/Y	77	2.4	3.3	3.5	292	40	3	55	3	2.5	1.075	Round	2.6	Red
7	CO06215-2R	99	2.8	3.8	3.5	448	76	10	24	1	3.0	1.084	Oval	4.5	Red
<b>Specialty Trial</b>															
<b>Yellow Flesh</b>															
7	Yukon Gold	90	2.0	3.4	3.3	301	79	22	13	7	2.9	1.080	Oval	6.6	White
8	AC10376-1W/Y	97	2.2	3.3	4.1	332	42	3	49	10	3.1	1.073	Oval	2.7	White
9	CO10064-1W/Y	92	3.1	3.9	4.2	308	45	2	51	4	4.0	1.087	Round	2.9	White
10	CO10097-2W/Y	96	3.0	3.5	3.6	373	63	6	36	0	3.9	1.077	Round	3.9	White
11	CO10098-4W/Y	96	4.3	3.5	3.8	295	33	1	60	7	3.3	1.086	Round	2.4	White
12	CO10098-5W/Y	70	3.5	2.6	4.1	188	24	1	49	22	1.8	1.089	Oval	2.6	White
<b>Chip Trial</b>															
13	Atlantic	90	2.4	3.6	3.6	364	83	21	13	3	3.3	1.098	Oval	4.8	Scaley-buff
14	Snowden	99	3.4	4.2	3.9	417	77	7	24	1	4.5	1.084	Oblong	4.8	White
15	CO10073-7W	95	3.5	3.6	3.3	386	72	5	26	4	2.9	1.083	Round	4.0	White
16	CO10076-4W	94	2.9	3.3	3.7	396	72	4	27	2	3.6	1.080	Round	4.1	White

## 2018 Southwestern Regional Trial Entries

Entry #	Clone/Cultivar	Parents		Flower Color	Vine Size	Maturity	Tuber Shape	Skin Type	Entered By	Use	Seed Source	2018 Year	Disposition for 2019	Notes
		Female	Male											
<b>Russet Trial</b>														
1	Russet Norkotah	ND9687-5RU	ND9526-4RU	White	Small	Early	Long	Russet	Check	Fresh	??	***	***	
2	CO10087-4RU	CO03367-1RU	Mercury Russet	White	Medium	Early	Oblong	Russet	CO	Dual	CO	1		
3	CO10091-1RU	CO03371-4RU	CO98067-7RU	White	Medium	Medium	Oblong	Russet	CO	Dual	CO	1		
<b>Red Trial</b>														
4	Chieftain	La 1354	Ia 1027-18	Lavender	Med-Large	Medium	Oblong	Lt. Red	Check	Fresh	CO	***	***	
5	Red LaSoda	Triumph	Katahdin	Red-purple	Med	Medium	Oval	Lt. Red	Check	Fresh	CO	***	***	
6	ATX02263-1R/Y	Inca Gold	A92653-6R		Large	Late	Round	Red	TX	Fresh	CO	1	Grad	
<b>Specialty Trial</b>														
<b>Yellow Flesh</b>														
7	Yukon Gold	Norgleam	W5279-4	Pink	Medium	Early	Oval	White	Check	Spec	CO	***	***	
8	AC10376-1W/Y	Gala	Granola	White	Large	Med-Late	Oval	White	CO	Spec	CO	1		
9	CO10064-1W/Y	CO00412-5W/Y	CO04099-4W/Y	Purple	Large	Medium	Round	White	CO	Spec	CO	1		
10	CO10097-2W/Y	CO04067-10W/Y	CO00412-5W/Y	White	Large	Medium	Round	White	CO	Spec	CO	1		
11	CO10098-4W/Y	CO04099-3W/Y	CO04099-4W/Y	Dk red purple	Med-Large	Medium	Round	White	CO	Spec	CO	1		
12	CO10098-5W/Y	CO04099-3W/Y	CO04099-4W/Y	Red purple	Medium	Medium	Oval	White	CO	Spec	CO	1		
												1		
<b>Chip Trial</b>														
13	Atlantic	Wauseon	B5141-6	Red-purple	Med	Medium	Oval	Scaly-buff	Check	Chip	CO	***	***	
14	Snowden	B5141-6	Wischip	White	Large	Late	Oblong	White	Check	Chip	CO	***	***	
15	CO10073-7W	CO02321-4W	CO02024-9W	White	Med-small	Medium	Round	White	CO	Chip	CO	1		
16	CO10076-4W	CO03243-3W	CO02024-9W	White	Medium	Medium	Round	White	CO	Chip	CO	1		
New	COTX08322-10RU	Blazer Russet	AC96052-1RU	White	Large	Medium	Oblong	Russet	TX	Fresh	CO			
	NDTX071258BS-1R	ND039035B-9R	ND4659-5R	Lavender	Large	Medium	Round	Red	TX	Fresh	CO			
	ATTX07042-3W	Western russet EM	A02086-10 EM 500	White	Large	Early-med	Oblong	White	TX	Chip	CO			
	TX09403-15W	NY138	Ivory Crisp		Medium	Medium	Round	White	TX	Chip	CO			
	TX09403-21W	NY138	Ivory Crisp						TX	Chip	CO			

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