

# Texas Potato Breeding Report 2016



The Texas A&M AgriLife Research  
Department of Horticultural Sciences  
Texas A&M University

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College Station and Lubbock

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PA = cross made and selected in Prosser, Washington

POR = cross made in Prosser, Washington and selected in Oregon

TX = cross made and selected in Texas

TXA = cross made in Texas and selected in Idaho (Aberdeen)

TXAV = cross made in Texas, selected in Idaho (Aberdeen) and reselected in Alberta, Canada

TXND = cross made in Texas and selected in North Dakota

TXNS "numbers" = Texas selections (strains) out of Russet Norkotah made by Texas program

TXYG "numbers" = Texas selections (strains) out of Yukon Gold made by Texas program

VC = cross made in Lethbridge, Alberta and selected in Colorado

Variety strain "numbers" = selections (strains) out of various varieties made by Gene Shaver in Nebraska

Variety strain "letters" = selections (strains) out of various varieties made by Warren Trank in Nebraska



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## **Mission Statement**

The mission of the Texas Potato Breeding and Variety Development Program of Texas A&M AgriLife Research is to identify and/or develop improved varieties adapted to the diverse Texas environmental conditions that will result in increased profits for the industry and provide superior products for consumers.

## **Impact Statement**

Since the inception of the Texas Potato Breeding and Variety Development Program in 1973, 2,554,921 seedlings have been grown for selection in Texas, from which 11,990 original selections have been made. Sixteen improved varieties have been developed/co-developed and/or released from this program. Most of the russet potatoes grown in Texas in 2016 were to the improved Texas Russet Norkotah strains. When this program was initiated in 1973, the average yield of the summer crop in Texas was about 200 cwt/A from 2008 through 2016 the average summer crop yield in Texas was reported to be the highest in the nation among the 11 summer crop producing states. In addition, the farm gate value of the crop has grown from less than \$20 million to about \$120 million, with an annual economic impact to the state in is estimated to exceed \$300 million. Of the new varieties developed/released in the US in the last 10 years, those developed by the Texas program collectively ranked fifth in total seed acreage entered into certification in 2016. Certified seed acreage of the Texas Russet Norkotah strain selections continued to increase in 2016.

## ZC Research Summary

The overall objective has been to evaluate a wide range of germplasm for possible resistance /tolerance to the ZC complex (and good chip quality), in order to identify and/or develop varieties for the industry which can be more successfully grown when/where conditions for expression of ZC are present. The studies are an integral part of the Texas Potato Breeding and Variety Development Program, and in 2016 were conducted at College Station in the greenhouses, with field cage plantings at Springlake.

Our approach has been to start with the most advanced material and now includes species material as well. Trials include multi-location and multi-season evaluations, and verification of findings under controlled caged conditions. Source material has included named varieties, materials from the Southwestern and Western Regional Trials, as well as the USPB National Chip Processor Trial. Texas Breeding Program selections have also been included. Trial locations have included Dalhart, Springlake, and Weslaco. Some 53,000 tubers, representing more than 800 varieties/selections, have been fresh-cut evaluated or chipped for ZC. Cage verification studies have been conducted since 2008 in Weslaco and since 2010 in Springlake.

Some 160 clones and plant introduction accessions were evaluated in both the greenhouse and screen cages in the field. Many of the 80 plant introduction accessions (Mini-Core Collection obtained from the US Potato Genebank, Sturgeon Bay, WI) were non-tuber-bearing species, although many produced microtubers in the greenhouse. With these species, we first looked at insect survival for the week they fed on treatment plants. Next, plant health, ZC symptom development, tuber number and tuber weight of the Lso-treated-plants were compared to those of the non-treated control plants to determine susceptibility. This Mini-Core Collection is currently in the greenhouse undergoing a final evaluation. Tuber-bearing clones and accessions were chipped at the conclusion of the trials and evaluated based on chip symptoms compared to their controls. Two species, (*Solanum berthaultii*) PI 310927 and (*Solanum commersonii*) PI 558050, were confirmed as having low survival of insects (high mortality) during the week of feeding on treatment plants. Two others clones are undergoing further testing for potential insect control strategies. These clones may be useful for future breeding purposes. Of the 31 second year selections (those with identified ZC tolerant/resistant parents) kept last year, four were retained this year based on chip quality and specific gravity. These will be further investigated for their ZC tolerance/resistance and entered into national trials as seed is increased. Crossing is ongoing with some of the tolerant/resistant species material.

Tolerant clones were provided to Dr. Charley Rush (Amarillo) for his evaluations in 2016. We worked closely with Dr. Tamborindegy and her lab for insect rearing and verification PCR.

There were over 60 participants at the Annual Potato Field Day. A 35-page handbook was prepared and distributed to those in attendance. Levy and Douglas Scheuring (Senior Research Associate, Horticultural Sciences) gave a short presentation on their ZC research. Kay Ledbetter (Amarillo) prepared a popular article which was posted on Today AgriLife and was picked up by some newspapers.

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## **Introduction**

### Program Summary

The Texas Potato Breeding and Variety Development Program used two locations in the 2016 growing season (Table 1). The first planting was near Springlake on March 31 and April 2 to 7 and harvested on July 12, 25, 27, August 7, and 10. This location included twenty one replicated trials, first generation seedlings for selection, and a spacing/fertility trial with three advanced Texas selection and two check varieties. The second planting was near Dalhart on May 3 to 6 and harvested on September 12, 14, 19, 22, October 3, 5, and 10. Twenty replicated trials, a seed increase nursery, and first year seedlings for selection were planted at this site.

The Texas program entered four selections (ATTX98514-1R/Y, NDTX059759-3RY/Y Pinto, COTX03134-1W, and TXWL-1) in the Western Regional Red/ Specialty Trial, three selections in the Western Regional Russet Trial (COTX09022-3RuRE/Y, COTX09052-2Ru, and TX08352-5Ru) and four selections in the Western Regional Chip Trial (NDTX071109C-1W, NDTX081648CB-13W, NDTX091908AB-2W, and TX09396-1W). The program also entered one selection in the Southwest Regional Red/ Specialty Trial (COTX00104-6R). These trials were conducted at multiple locations in six western states.

The Texas Program had twelve entries (AORTX09032-3W, AORTX09033-4W, AORTX09037-1W, AORTX09037-4W, AORTX10247-1W/Y, ATTX11476-11W, NDTX102852CB-3Ru, NDTX102852CB-4Ru, NDTX113030C-10W, NDTX113030C-3W, NDTX113037C-3W, and WTX10666-8W) in the USPB Fast-Track National Chip Processing Trial. Four Texas entries (NCTX071109C-1W, NDTX081648CB-13W, NDTX091908AB-2W, and TX09396-1W) were entered in the National Snack Food Trial

A major focus of the program in 2016 continued on Zebra Chip Research, with emphasis on varietal tolerance/resistance and screening of the US Potato Genebank Mini-core collection. The program also continued to stress virus testing, clean-up, and minituber multiplication of a number of selected clones. A successful field day was held on 21 July at Springlake, and was well attended by over 60 growers and Zebra Chip collaborators from Mexico to Canada.

### Seedling program

In 2016, 73,043 first year seedling tubers, resulting from 463 different parental combination or families (crosses), were grown for selection. Some 33,161 seedling tubers were planted on the Barrett Farm near Springlake while 41,659 were planted at CSS Farm near Dalhart. Two hundred and eighty eight original selections were made from this material (Figure 1).

The 2016 first year seedling tubers from Texas (15,216) were grown from true seed during the fall of 2015 at College Station. These seed were from crosses made in Lubbock. The remaining seedling tubers were provided by Rich Novy, Idaho (25,471), Sagar Sathuvalli, Oregon (25,000), David Holm, Colorado (17,650), and Susie Thompson, North Dakota (5,161).

Texas also sent second and third-size seedling tubers to Idaho (1,517), Colorado (16,416), and North Dakota (8,659) for first year selections.

Table 1. Trial locations, name of trial, number of entries, and number of plots evaluated in 2016.

Springlake			Dalhart		
Trial	# of Entries	# of Plots	Trial	# of Entries	# of Plots
Field day Russets (not reported)	125	125	National Chip	130	166
Field day Red/Specialty(not reported)	108	108	Western and Southwestern Regional Chip	32	127
Western and Southwestern Regional Chip	23	92	Western and Southwestern Regional Russet	24	96
Western and Southwestern Regional Russet	27	106	Western and Southwestern Regional Red	8	27
Western and Southwestern Regional Red	8	29	Western and Southwestern Regional Red/Yellow	7	27
Western and Southwestern Regional Red/Yellow	9	40	Western and Southwestern Regional White/Yellow	11	43
Western and Southwestern Regional White/Yellow	13	52	Texas Advanced Chip Selection	90	263
Texas Advanced Chip Selection	41	103	2015 Chip Selection	191	191
Texas Advanced Russet Selection	32	100	Texas Advanced Russet Selection	12	48
Texas Advanced Red Selection	12	48	2015 Russet Selection	97	97
Texas Advanced Red/Yellow Selection	4	16	Texas Advanced Red Selection	13	44
Texas Advanced White/Yellow Selection	8	30	2014 Red Selection	32	32
Texas Advanced Small Potato Selection	20	72	Texas Advanced Red/Yellow Selection	6	20
Texas Advanced Fingerling Selection	4	16	2014 Red/Yellow Flesh Selection	18	18
Texas Advanced Purple/Yellow Selection	6	18	Texas Advanced White/Yellow Selection	5	20
Commercial Specialty	20	76	2014 White/Yellow Flesh Selection	51	51
Texas Advanced Purple/Purple Selection	3	12	Texas Advanced Small Potato Selection	34	113
<b>Total</b>	<b>230</b>	<b>1043</b>	2014 Small Potato Selection	29	29
			Texas Advanced Fingerling Selection	12	43
			2014 Fingerling Potato Selection	18	18
			Commercial Specialty	8	32
			Texas Advanced Purple Skin Selection	4	11
			2014 Purple/Purple Selection	4	14
			<b>Total</b>	<b>828</b>	<b>1505</b>
			<b>Total Entries and Plots</b>	<b>1058</b>	<b>2548</b>

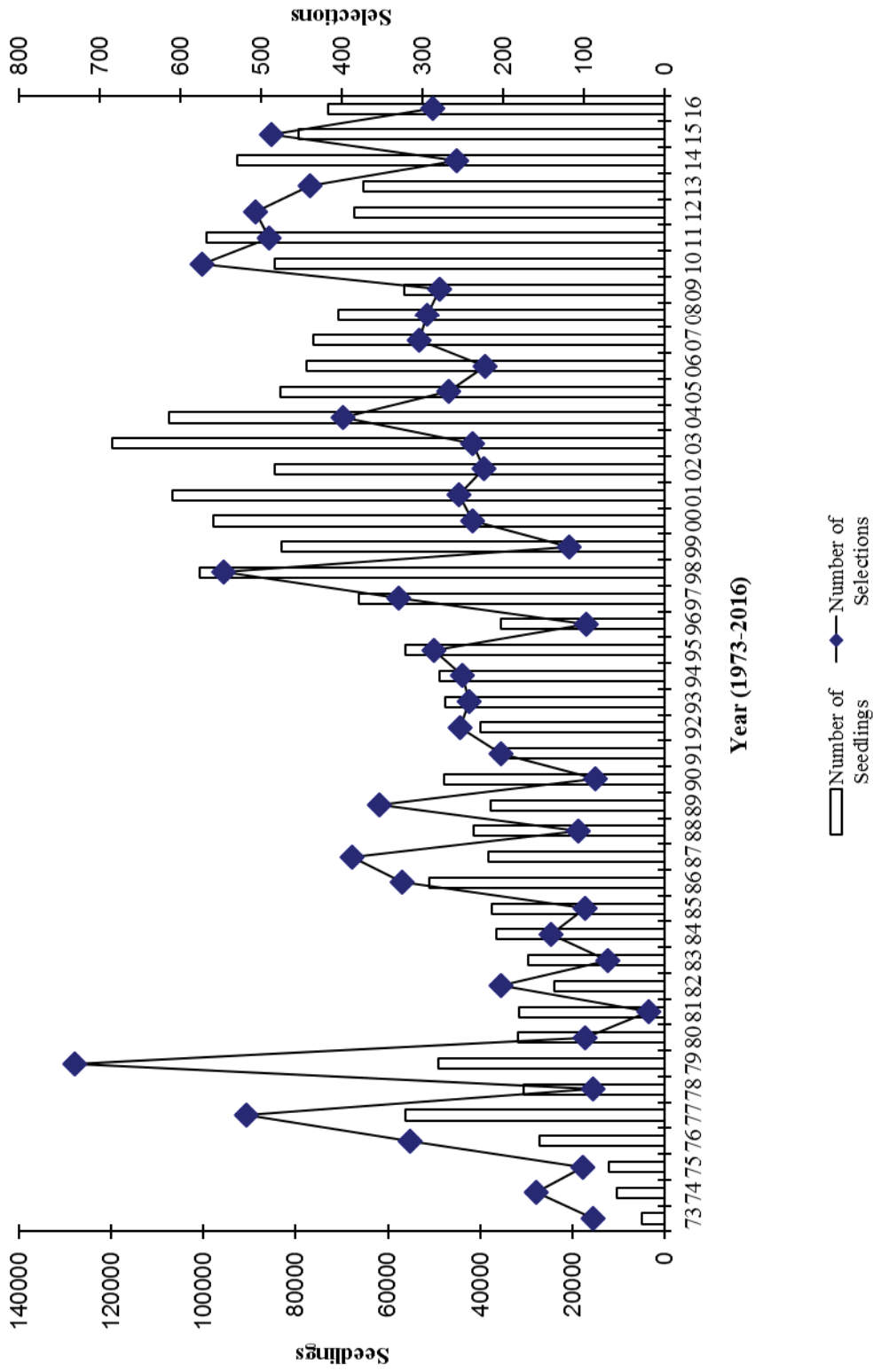


Figure. 1. Number of first year seedling tubers grown for original selection and number of selections made since the inception of the Texas Potato Variety Development Program.



### Adaptation trials

The objectives of the adaptation trials were: (1) to test advanced selections and named varieties to determine their potential as replacement varieties for those presently grown in Texas, and (2) to identify potential parents for use in the Texas breeding program. Some 230 advanced selections/varieties were tested in replicated and non-replicated trials near Springlake, and 828 entries were evaluated near Dalhart. A total of 2,548 plots were planted and harvested at the two locations. A seed increase nursery was grown at the San Luis Valley Research Center, Center, Colorado, by Dr. David Holm.

Since 1973, a total of 33,978 entries have been evaluated in replicated trials (Figure 2). Findings from the Texas Potato Variety Development Program trials have resulted in the release of several improved varieties which have contributed significantly to the competitiveness, sustainability, and profitability of the Texas potato industry.

Table A for each trial provides basic information regarding total yield and grade distribution of individual entries. Tables B, C, D, E, and F provide a more in-depth insight regarding variety characteristics. General notes on the entries can be found in Appendix A at the end of this report. Likewise, parentage can be found in Appendix B.

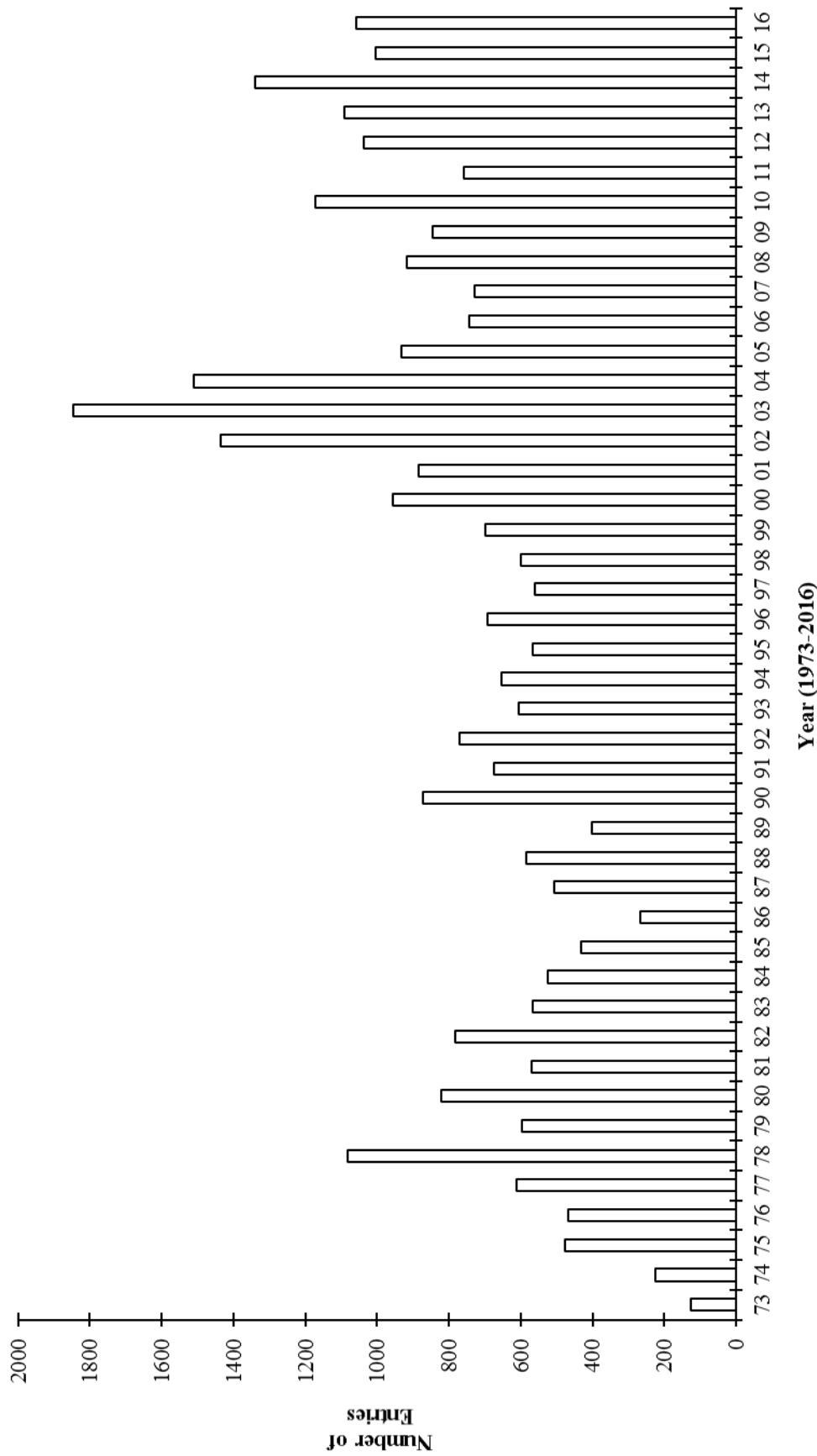


Figure 2. Number of varieties and advanced selections tested for their adaptability to Texas environmental conditions each year since the inception of the Texas Potato Variety Development Program in 1973.

## Springlake Trials, 2016

### Summary of growing conditions:

The trials were planted near Springlake on March 31 and April 2 to 7 and harvested on July 12, 25, 27, August 7, and 10. Standard cultural practices for the area were used (Table 2). These trials were subjected to above average precipitation for May, June, July and August. The plots were subjected to heavy psyllid pressure.

### Trials conducted:

- Field day Russets (not reported)
- Field day Red/Specialty(not reported)
- Western and Southwestern Regional Chip
- Western and Southwestern Regional Russet
- Western and Southwestern Regional Red
- Western and Southwestern Regional Red/Yellow
- Western and Southwestern Regional White/Yellow
- Texas Advanced Chip Selection
- Texas Advanced Russet Selection
- Texas Advanced Red Selection
- Texas Advanced Red/Yellow Selection
- Texas Advanced White/Yellow Selection
- Texas Advanced Small Potato Selection
- Texas Advanced Fingerling Selection
- Texas Advanced Purple Skin Selection
- Spacing Fertility Trial (not reported)
- Commercial Specialty Trial (not reported)
- Glycoalkaloids Trial (not reported)

Table 2. Environmental and cultural inputs for the 2016 Springlake Trials.		
Location:		
Springlake, Texas		
Soil Type		
Tivoli Fine Sand		
Seed Source		
Oregon Colorado, Nebraska, Texas, North Dakota, Idaho, and Canada		
Date:		DAP
Planted	April 3, 2016	
Vines Killed (Red, Red/Yellow, Small)	July 9, 2016	96
Vines Killed (Chip, White Yellow)	July 18, 2016	105
Vines Killed (Russet)	August 2, 2016	119
Harvested (Red, Red/Yellow, Small Potatoes)	July 12, 2016	99
Harvested (White/Yellow, Chip, )	July 25, 2016	112
Harvested (Russet)	August 7, 2016	124
Plot Information:		
Size of plots	21'	
Spacing between hills	9"	
Spacing between rows	36"	
Hills per plot	28	
Number of rows	2	
Number of reps	4	
Method of Harvest:		
Two-row drag digger, with hand pick up		
Fertilizer:		
Application:		
133-28-28# per acre		
Irrigation:		
Center Pivot		
Seed Treatment Applied:		
Cruiser Maxx		
Insecticide:		
Movento, Blackhawk, Sivanto, Enzo, Scorpion, Torac, Venom		
Fungicides Applied:		
Scala, Copper, Tanos, Quadris, Echo, Revus		
Herbicides Applied:		
Roundup, Dual, Matrix, Stealth		
Environmental Factors:		
<p>These trials were subjected to above average precipitation for May and June and above average temperature in July and the first week of August. They were also subjected to a psyllid infestation in late June through July.</p>		

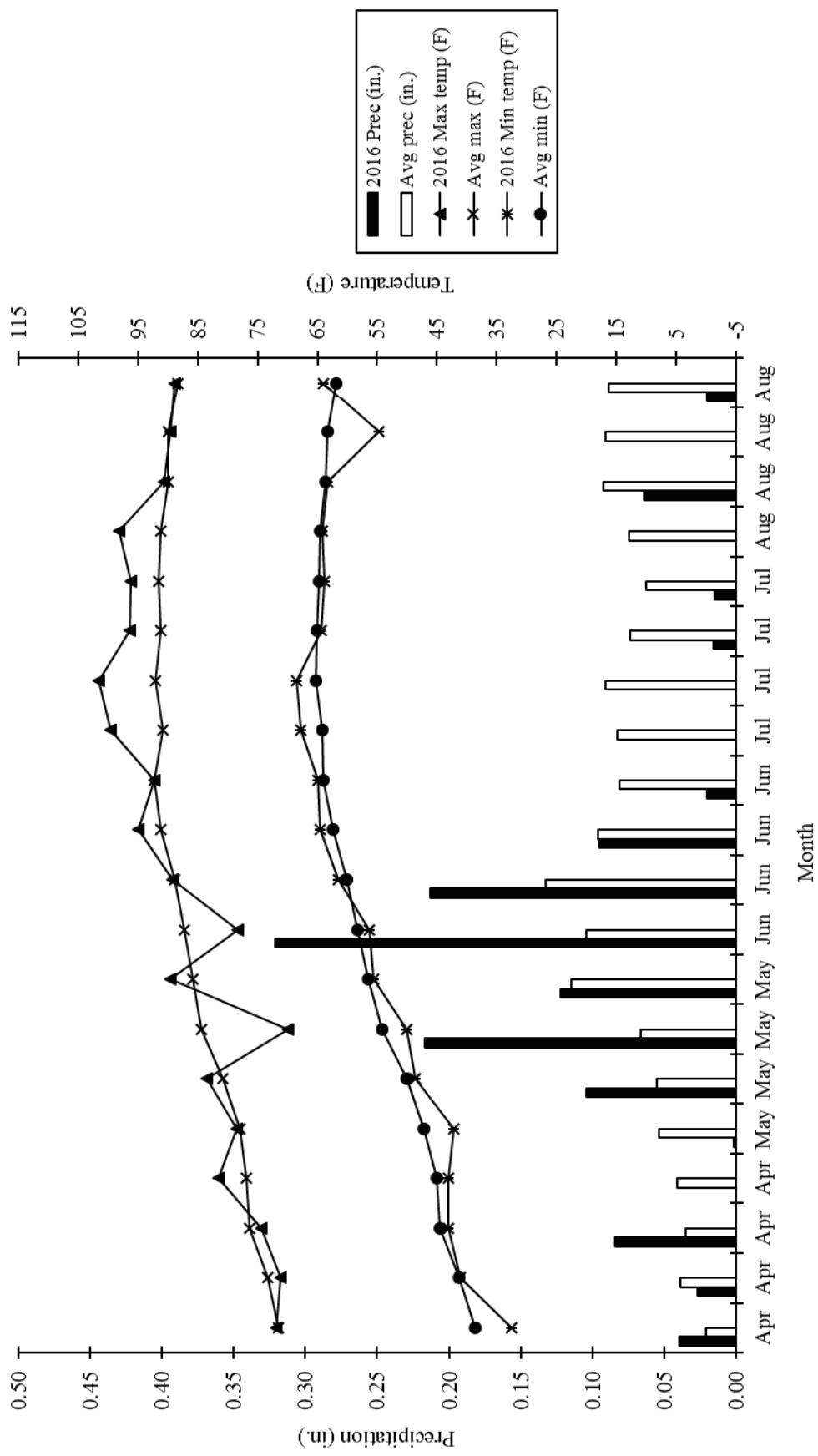


Figure 3. Weekly minimum/maximum temperatures and precipitation for the 2016 growing season near Springlake, Texas compared to the average minimum/maximum temperatures and precipitation (1949-2016).

## Western and Southwestern Regional Trials

The Western Regional Trials were grown at 12 sites throughout the western United States as part of the WERA-27 project, with cooperators in California, Oregon, Washington, Idaho, Colorado, and Texas.

The Southwestern Regional Potato Research Program includes California, Colorado, and Texas. The objective is to evaluate promising advanced selections from the Texas and Colorado breeding programs. Entries that are successful in these trials are then graduated to the various Western Regional Trials.

### Western and Southwestern Regional Chip Trial, Springlake

This trial consisted of thirty six entries, including the two check varieties Atlantic and Snowden.

Results were as follows: (Springlake Tables 1a, 1b, 1c, 1d, 1e, and 1f)

- The outstanding entries for this trial, based on general rating, yield, and chip quality was NDTX091908AB-02W (Table 1a and 1f).
- CO07070-10W, CO07070-13W, and Lamoka had the highest ratio of good chips (Table 1f).
- NDTX091908AB-02W had the highest total yield, while Gouda had the highest marketable yield (Table 1a)
- NDTX091908AB-02W had the highest yield of less than 4 oz. tubers. (Table 1a).
- NDTX071109C-01W had the highest percentage of U.S. No. 1's
- AOR09034-3 had the highest percentage of less than 4 oz. tubers (Table 1b).
- OR9253-1, CO02321-4W, and Atlantic had the highest specific gravity (Table 1b).
- Atlantic had 6% internal brownspot and hollow heart (Table 1d).
- Atlantic, MSQ086-3, NY153, W5955-1, CIT #6, Munich, and OR09256-2 all had over 5% Zebra Chip (Table f).

#### Comments on entries:

- NDTX091908AB-02W Oblong White yield+, high set, smooth, BOT, CR=1
- Gouda Round White poor shape, rough, heat sprouts, light yellow flesh, french fry, light russet, CR=3
- CO07070-13W Oblong White uniform, nice size and shape, ZC, CR=1

• Banff	Long White	rough, drop, too oblong, for chip, french fry, smooth, CR=3
• CIT #1	Oblong White	poor, shape, smooth, nice yellow flesh, low yield, ZC, CR= 3
• CO02321-4W	Round White	small, smooth skin, uniform, light yellow flesh, CR=2
• Atlantic	Oblong Buff	nice size and shape, poor internals, CR=1
• NY152	Oblong White	uniform, nice size and shape, BOT, CR=1
• MSQ086-3	Oblong White	smooth, nice skin, uniform, BOT-, CR=1
• TX09396-1W	Oblong White	nice size and yield, CR=1
• NC0349-3	Oblong White	uniform, nice shape, CR=1
• NY153	Oblong White	uniform, nice size and shape, CR=1
• NDTX081648CB-13W	Oblong White	rough, poor shape, drop??. CR=1
• NDA081453CAB-2C	Oblong White	uniform, smooth, CR=2
• W5955-1	Oblong White	heavy set, uniform, buff skin, CR=1
• B2727-2	Long White	nice size and shape, light set, CR=1
• NDTX071109C-01W	Oblong White	nice size and shape, light set, CR=1
• CO03243-3W	Oblong White	uniform, small, smooth, CR=2
• MSW485-2	Oblong White	sticky stolon, rough, small, drop, CR=1
• Lamoka	Oblong White	light set, low yield, CR=1
• Snowden	Oblong White	small, uniform, nice flesh, CR=1
• AOR09034-3	Oblong White	low yield, small, uniform, smooth, CR=1
• CIT #5	Long White	poor shape, french fry, rough, drop, CR=1
• MSW509-5	Oblong White	light set, low yield, CR=1
• Olympus	Oblong White	very small, uniform, CR=1
• AC05153-1W	Round White	CR=1
• AC01144-1W	Oblong White	light set, small, uniform, CR=1
• CIT #6	Oblong White	russet, poor shape, CR=1
• W2978-3	Long White	smooth, nice shape, uniform, CR=2
• Munich	Oblong White	french fry, light set, poor internals, CR=1
• MSY301-2	Long White	light set, smooth, nice shape, CR=1
• MSW358-3	Oblong White	small, uniform, CR=1
• CO07070-10W	Oblong White	light set, low yield, smooth, CR=1
• CIT #7	Round White	russet, small, CR=2

- OR09256-2                      Oblong White                      light set, buff, uniform, CR=1

<sup>1</sup>CR=chip color rating 1=light to 3= dark

Summary:

Overall, the outstanding entry based on general rating, marketable yield, and chip quality was NDTX091908AB-02W.



Springlake  
Table 1a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 36 entries in the Western, Southwestern  
Regional and Commercial Chip Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
NDTX091908AB-02W	WR	399.1	125.3	119.4	5.9	0.0	273.8	0.0	4.0	
Gouda	CAN	363.5	243.2	115.7	111.1	16.4	100.3	20.1	2.5	
CO07070-13W	WR	355.4	159.5	123.5	36.0	0.0	195.9	0.0	3.7	
Banff	CAN	351.6	208.8	124.6	79.3	4.8	119.4	23.3	3.0	
CIT #1	CAN	327.0	110.4	98.2	12.2	0.0	216.6	0.0	3.0	
CO02321-4W	Hig	326.2	133.8	114.3	19.5	0.0	192.4	0.0	3.8	
Atlantic	WR	323.2	198.1	125.1	62.9	10.0	125.1	0.0	3.8	
NY152	Hig	319.7	119.6	95.9	19.8	3.9	200.1	0.0	3.7	
MSQ086-3	Hig	304.2	117.9	94.7	23.2	0.0	186.3	0.0	3.7	
TX09396-1W	WR	304.1	149.3	81.2	65.7	2.4	154.7	0.0	3.8	
NC0349-3	Hig	292.7	139.0	103.0	36.0	0.0	153.7	0.0	3.7	
NY153	Hig	291.1	66.4	62.6	3.8	0.0	224.7	0.0	3.7	
NDTX081648CB-13W	WR	287.8	91.3	78.1	13.1	0.0	196.5	0.0	3.3	
NDA081453CAB-2C	WR	285.9	93.0	81.4	11.6	0.0	192.9	0.0	3.7	
W5955-1	Hig	285.6	132.1	84.2	47.9	0.0	153.5	0.0	3.7	
B2727-2	Hig	282.6	159.5	115.5	44.0	0.0	123.1	0.0	3.7	
NDTX071109C-01W	WR	278.0	206.3	139.2	67.1	0.0	71.7	0.0	3.7	
CO03243-3W	Hig	272.9	111.3	91.8	19.5	0.0	161.6	0.0	3.7	
MSW485-2	Hig	266.7	95.2	89.9	5.3	0.0	171.5	0.0	2.5	
Lamoka	Hig	263.4	142.7	111.8	30.9	0.0	120.8	0.0	3.5	
Snowden	WR	258.6	105.8	89.2	16.6	0.0	152.8	0.0	3.5	
AOR09034-3	WR	254.4	30.4	26.7	3.7	0.0	224.0	0.0	3.1	
CIT #5	CAN	248.5	91.3	64.1	23.5	3.7	157.2	0.0	2.5	
MSW509-5	Hig	241.8	88.0	80.2	7.8	0.0	153.7	0.0	3.3	
Olympus	Real	236.9	39.0	39.0	0.0	0.0	198.0	0.0	3.5	
AC05153-1W	WR	233.2	77.8	40.8	28.3	8.6	155.4	0.0	3.5	
AC01144-1W	SW	225.6	59.6	59.6	0.0	0.0	165.9	0.0	3.4	
CIT #6	CAN	220.9	113.2	78.0	31.1	4.1	107.7	0.0	3.0	
W2978-3	Real	217.5	66.9	56.2	10.7	0.0	150.6	0.0	3.6	
Munich	CAN	216.9	92.5	76.4	9.9	6.2	124.5	0.0	2.5	
MSY301-2	Hig	215.6	79.0	72.3	6.7	0.0	136.6	0.0	3.0	
MSW358-3	Hig	212.1	72.8	69.7	3.1	0.0	139.3	0.0	3.5	
CO07070-10W	WR	189.2	46.8	46.8	0.0	0.0	142.4	0.0	2.5	
CIT #7	CAN	178.9	33.7	33.7	0.0	0.0	145.2	0.0	3.0	
OR09256-2	WR	175.1	36.6	33.9	2.8	0.0	138.5	0.0	3.4	
OR9253-1	WR	164.7	46.3	43.6	2.8	0.0	118.4	0.0	3.0	
Average		296.8	126.3	94.0	30.7	1.7	0.0	168.8	1.7	3.4
L.S.D. (.05)		64.0	38.7	29.0	25.6	4.5	ns	41.2	6.6	0.1

<sup>1</sup> 1=very poor to 5= excellent

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Table 1b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 36 entries in the Western, Southwestern  
Regional and Commercial Chip Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
NDTX091908AB-02W	WR	31.4	29.9	1.5	0.0	0.0	68.6	0.0	1.077	16.2	Oblong	White
Gouda	CAN	66.9	31.8	30.6	4.5	0.0	27.6	5.5	1.084	17.5	Round	White
CO07070-13W	WR	44.9	34.8	10.1	0.0	0.0	55.1	0.0	1.077	16.3	Oblong	White
Banff	CAN	59.4	35.4	22.6	1.4	0.0	34.0	6.6	1.074	15.8	Long	White
CIT #1	CAN	33.8	30.0	3.7	0.0	0.0	66.2	0.0	1.074	15.7	Oblong	White
CO02321-4W	Hig	41.0	35.0	6.0	0.0	0.0	59.0	0.0	1.092	18.9	Round	White
Atlantic	WR	61.3	35.8	19.5	3.1	0.0	38.7	0.0	1.093	19.1	Oblong	Buff
NY152	Hig	37.4	30.0	6.2	1.2	0.0	62.6	0.0	1.080	16.7	Oblong	White
MSQ086-3	Hig	38.8	31.1	7.6	0.0	0.0	61.3	0.0	1.075	15.8	Oblong	White
TX09396-1W	WR	49.1	26.7	21.6	0.8	0.0	50.9	0.0	1.087	18.1	Oblong	White
NC0349-3	Hig	47.5	35.2	12.3	0.0	0.0	52.5	0.0	1.075	15.9	Oblong	White
NY153	Hig	22.8	21.5	1.3	0.0	0.0	77.2	0.0	1.088	18.1	Oblong	White
NDTX081648CB-13W	WR	31.7	27.1	4.6	0.0	0.0	68.3	0.0	1.085	17.6	Oblong	White
NDA081453CAB-2C	WR	32.5	28.5	4.1	0.0	0.0	67.5	0.0	1.084	17.5	Oblong	White
W5955-1	Hig	46.2	29.5	16.8	0.0	0.0	53.8	0.0	1.077	16.2	Oblong	White
B2727-2	Hig	56.4	40.9	15.6	0.0	0.0	43.6	0.0	1.092	18.9	Long	White
NDTX071109C-01W	WR	74.2	50.1	24.1	0.0	0.0	25.8	0.0	1.071	15.2	Oblong	White
CO03243-3W	Hig	40.8	33.6	7.2	0.0	0.0	59.2	0.0	1.077	16.3	Oblong	White
MSW485-2	Hig	35.7	33.7	2.0	0.0	0.0	64.3	0.0	1.088	18.3	Oblong	White
Lamoka	Hig	54.2	42.4	11.7	0.0	0.0	45.8	0.0	1.081	16.9	Oblong	White
Snowden	WR	40.9	34.5	6.4	0.0	0.0	59.1	0.0	1.079	16.6	Oblong	White
AOR09034-3	WR	12.0	10.5	1.4	0.0	0.0	88.0	0.0	1.085	17.6	Oblong	White
CIT #5	CAN	36.7	25.8	9.5	1.5	0.0	63.3	0.0	1.069	14.9	Long	White
MSW509-5	Hig	36.4	33.2	3.2	0.0	0.0	63.6	0.0	1.077	16.2	Oblong	White
Olympus	Real	16.4	16.4	0.0	0.0	0.0	83.6	0.0	1.078	16.4	Round	White
AC05153-1W	WR	33.4	17.5	12.2	3.7	0.0	66.6	0.0	1.086	17.8	Oblong	White
AC01144-1W	SW	26.4	26.4	0.0	0.0	0.0	73.6	0.0	1.075	15.9	Oblong	White
CIT #6	CAN	51.3	35.3	14.1	1.9	0.0	48.7	0.0	1.080	16.8	Oblong	White
W2978-3	Real	30.8	25.8	4.9	0.0	0.0	69.2	0.0	1.077	16.2	Long	White
Munich	CAN	42.6	35.2	4.5	2.9	0.0	57.4	0.0	1.069	14.8	Oblong	White
MSY301-2	Hig	36.6	33.5	3.1	0.0	0.0	63.4	0.0	1.085	17.7	Long	White
MSW358-3	Hig	34.3	32.8	1.5	0.0	0.0	65.7	0.0	1.077	16.2	Oblong	White
CO07070-10W	WR	24.7	24.7	0.0	0.0	0.0	75.3	0.0	1.099	20.1	Oblong	White
CIT #7	CAN	18.8	18.8	0.0	0.0	0.0	81.2	0.0	1.077	16.2	Round	White
OR09256-2	WR	20.9	19.3	1.6	0.0	0.0	79.1	0.0	1.084	17.6	Long	White
OR9253-1	WR	28.1	26.4	1.7	0.0	0.0	71.9	0.0	1.093	19.1	Oblong	White
Average		41.9	31.3	10.0	0.5	0.0	57.6	0.5	1.081	16.9		
L.S.D. (.05)		9.1	7.2	7.7	1.5	ns	8.7	1.8	0.004	0.7		

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Table 1c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 36 entries in the Western, Southwestern Regional and Commercial Chip Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
NDTX091908AB-02W	WR	14.7	2.3	3.3	96	96	2.0	3.5	2.8	3.7	53
Gouda	CAN	7.3	4.2	2.1	100	100	1.8	3.5	3.6	3.6	23
CO07070-13W	WR	10.7	2.7	2.9	100	100	2.4	3.5	2.9	3.7	43
Banff	CAN	7.8	3.7	1.9	100	100	1.5	3.3	3.6	3.5	35
CIT #1	CAN	11.3	2.4	2.3	100	100	1.6	3.6	2.5	3.7	55
CO02321-4W	Hig	9.5	2.8	2.8	100	100	2.1	3.5	3.7	3.7	35
Atlantic	WR	7.9	3.4	2.3	96	100	2.0	3.7	3.6	3.8	25
NY152	Hig	10.3	2.6	2.0	100	100	1.9	3.5	3.7	3.6	20
MSQ086-3	Hig	10.5	2.4	2.2	100	100	2.0	3.5	4.2	3.7	8
TX09396-1W	WR	8.5	3.0	1.6	100	100	1.8	3.2	4.8	3.4	3
NC0349-3	Hig	7.5	3.3	2.5	100	100	2.1	3.7	3.6	3.8	35
NY153	Hig	12.4	2.2	2.2	93	93	1.9	11.7	3.9	2.8	25
NDTX081648CB-13W	WR	10.6	2.3	3.5	100	100	1.8	3.6	4.6	3.7	10
NDA081453CAB-2C	WR	10.1	2.3	2.5	100	100	2.0	3.6	3.8	3.7	28
W5955-1	Hig	8.3	2.8	2.0	100	100	1.8	3.6	4.2	3.7	13
B2727-2	Hig	7.1	3.4	1.6	98	98	2.3	3.7	3.3	3.7	43
NDTX071109C-01W	WR	6.6	3.6	1.5	95	98	2.0	3.3	3.0	3.5	40
CO03243-3W	Hig	8.2	2.8	2.3	100	100	2.0	3.5	3.8	12.0	28
MSW485-2	Hig	10.2	2.2	2.4	100	100	2.0	3.8	4.4	3.9	8
Lamoka	Hig	6.4	3.4	1.6	100	100	2.0	3.4	3.9	3.6	15
Snowden	WR	8.9	2.4	3.3	100	100	2.0	3.8	3.9	3.9	20
AOR09034-3	WR	12.3	1.7	2.5	100	100	2.0	3.7	3.9	3.8	20
CIT #5	CAN	8.4	2.5	3.3	100	100	2.0	3.6	3.6	3.6	23
MSW509-5	Hig	8.1	2.5	2.1	100	100	1.8	3.6	3.3	3.7	35
Olympus	Real	10.2	1.9	2.0	100	100	1.8	3.3	4.1	3.5	13
AC05153-1W	WR	7.3	2.8	1.7	77	95	2.3	3.4	2.3	3.6	63
AC01144-1W	SW	8.9	2.1	2.0	100	100	2.5	3.5	2.8	3.6	53
CIT #6	CAN	5.8	3.1	2.3	100	100	2.1	3.5	3.8	3.6	25
W2978-3	Real	8.2	2.2	1.8	100	100	1.8	3.5	3.2	3.6	45
Munich	CAN	6.6	2.7	1.8	100	100	1.9	3.3	3.7	3.5	20
MSY301-2	Hig	6.7	2.7	1.9	98	98	1.9	3.3	3.3	3.5	45
MSW358-3	Hig	7.6	2.3	2.1	100	100	1.9	3.5	4.0	3.6	13
CO07070-10W	WR	7.5	2.1	2.6	100	100	1.8	3.4	2.7	3.6	55
CIT #7	CAN	7.7	1.9	1.4	100	100	1.8	3.0	3.3	3.2	40
OR09256-2	WR	7.1	2.1	2.4	100	100	2.1	3.5	3.8	3.6	25
OR9253-1	WR	8.6	1.6	3.1	100	100	2.0	3.7	4.3	3.8	15
Average		9.3	2.7	2.3	99	99	1.9	3.9	3.7	4.0	26
L.S.D. (.05)		2.2	0.3	0.2	8	ns	0.4	ns	0.3	ns	8

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

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Table 1d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 36 entries in the Western, Southwestern Regional and Commercial Chip Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
NDTX091908AB-02W	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Gouda	CAN	1.8	2.0	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO07070-13W	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Banff	CAN	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CIT #1	CAN	3.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO02321-4W	Hig	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Atlantic	WR	1.0	2.5	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	6	0	0	6
NY152	Hig	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
MSQ086-3	Hig	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09396-1W	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NC0349-3	Hig	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NY153	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081648CB-13W	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDA081453CAB-2C	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
W5955-1	Hig	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
B2727-2	Hig	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX071109C-01W	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO03243-3W	Hig	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
MSW485-2	Hig	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Lamoka	Hig	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Snowden	WR	1.0	2.5	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOR09034-3	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CIT #5	CAN	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
MSW509-5	Hig	1.0	2.5	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Olympus	Real	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC05153-1W	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC01144-1W	SW	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CIT #6	CAN	1.0	3.5	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
W2978-3	Real	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Munich	CAN	1.0	3.5	1.0	4.0	11.0	5.0	5.0	5.0	5.0	5.0	0	0	0	10
MSY301-2	Hig	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
MSW358-3	Hig	1.0	2.5	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO07070-10W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CIT #7	CAN	1.0	3.5	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
OR09256-2	WR	1.0	2.5	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
OR9253-1	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.1	2.6	1.3	4.0	1.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Springlake  
Table 1e.Notes and general rating for all reps of 36 entries in the Western, Southwestern Regional and  
Commercial Chip Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Notes Grading	General Rating Grading
NDTX091908AB-02W	WR	yield+, high set, smooth, BPOT, , , poor shape, rough, heat sprouts, light yellow flesh,	4, 4, 4, 4
Gouda	CAN	french fry, light russet, , ,	2.5, 2.5, 2.5, 2.5
CO07070-13W	WR	uniform, nice size and shape, ZC, , ,	3.7, 3.7, 3.7, 3.7
Banff	CAN	rough, drop, too oblong, for chip, french fry, smooth, , ,	3, 3, 3, 3
CIT #1	CAN	poor, shape, smooth, nice yellow flesh, low yield, ZC, , ,	3, 3, 3, 3
CO02321-4W	Hig	small, smooth skin, uniform, light yellow flesh, , ,	3.8, 3.8, 3.8, 3.8
Atlantic	WR	nice size and shape, poor internals, , ,	3.8, 3.8, 3.8, 3.8
NY152	Hig	uniform, nice size and shape, BOT, , ,	3.7, 3.7, 3.7, 3.7
MSQ086-3	Hig	smooth, nice skin, uniform, BOT-, , ,	3.7, 3.7, 3.7, 3.7
TX09396-1W	WR	nice size and yield, , ,	3.8, 3.8, 3.8, 3.8
NC0349-3	Hig	uniform, nice shape, , ,	3.7, 3.7, 3.7, 3.7
NY153	Hig	uniform, nice size and shape, , ,	3.7, 3.7, 3.7, 3.7
NDTX081648CB-13W	WR	rough, poor shape, drop??, , ,	3.3, 3.3, 3.3, 3.3
NDA081453CAB-2C	WR	uniform, smooth, , ,	3.7, 3.7, 3.7, 3.7
W5955-1	Hig	heavy set, uniform, buff skin, , ,	3.7, 3.7, 3.7, 3.7
B2727-2	Hig	nice size and shape, light set, , ,	3.7, 3.7, 3.7, 3.7
NDTX071109C-01W	WR	nice size and shape, light set, , ,	3.7, 3.7, 3.7, 3.7
CO03243-3W	Hig	uniform, small, smooth, , ,	3.7, 3.7, 3.7, 3.7
MSW485-2	Hig	sticky stolon, rough, small, drop, , ,	2.5, 2.5, 2.5, 2.5
Lamoka	Hig	light set, low yield, , ,	3.5, 3.5, 3.5, 3.5
Snowden	WR	small, uniform, nice flesh, , ,	3.5, 3.5, 3.5, 3.5
AOR09034-3	WR	low yield, small, uniform, smooth, , ,	3.1, 3.1, 3.1, 3.1
CIT #5	CAN	poor shape, french fry, rough, drop, , ,	2.5, 2.5, 2.5, 2.5
MSW509-5	Hig	light set, low yield, , ,	3.3, 3.3, 3.3, 3.3
Olympus	Real	very small, uniform, , ,	3.5, 3.5, 3.5, 3.5
AC05153-1W	WR	, , ,	3.5, 3.5, 3.5, 3.5
AC01144-1W	SW	light set, small, uniform, , ,	3.4, 3.4, 3.4, 3.4
CIT #6	CAN	russet, poor shape, , ,	3, 3, 3, 3
W2978-3	Real	smooth, nice shape, uniform, , ,	3.6, 3.6, 3.6, 3.6
Munich	CAN	french fry, light set, poor internals, , ,	2.5, 2.5, 2.5, 2.5
MSY301-2	Hig	light set, smooth, nice shape, , ,	3, 3, 3, 3
MSW358-3	Hig	small, uniform, , ,	3.5, 3.5, 3.5, 3.5
CO07070-10W	WR	light set, low yield, smooth, , ,	2.5, 2.5, 2.5, 2.5
CIT #7	CAN	russet, small, , ,	3, 3, 3, 3
OR09256-2	WR	light set, buff, uniform, , ,	3.4, 3.4, 3.4, 3.4
OR9253-1	WR	light set, small, , ,	3, 3, 3, 3

Springlake  
Table 1f. Specific gravity, percent solids, tuber general rating, chip color rating, good chip bad chip ratio, notes, and percentage of Zebra Defect at chipping at grading of 36 entries in the Western, Southwestern Regional and Commercial Chip Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Gravity	% Solids	Chip General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect
NDTX091908AB-02W	WR	1.077	16.2	0.0	1	34/5	BOT-	0%
Gouda	CAN	1.084	17.5	0.0	3	16/21		0%
CO07070-13W	WR	1.077	16.3	0.0	1	36/4	NICE	0%
Banff	CAN	1.074	15.8	0.0	3	0/30	28DK, 1HH	0%
CIT #1	CAN	1.074	15.7	0.0	3	20/20	YELLOW	0%
CO02321-4W	Hig	1.092	18.9	0.0	2	26/9		0%
Atlantic	WR	1.093	19.1	0.0	1	14/23	1GH	5%
NY152	Hig	1.080	16.7	0.0	1	23/12		0%
MSQ086-3	Hig	1.075	15.8	0.0	1	28/12		8%
TX09396-1W	WR	1.087	18.1	0.0	1	29/10	1HH, 2DK	0%
NC0349-3	Hig	1.075	15.9	0.0	1	7/34	9GH	0%
NY153	Hig	1.088	18.1	0.0	1	28/12	NICE	8%
NDTX081648CB-13W	WR	1.085	17.6	0.0	1	22/18		0%
NDA081453CAB-2C	WR	1.084	17.5	0.0	2	18/18	4DK	0%
W5955-1	Hig	1.077	16.2	0.0	1	22/15	1HH	14%
B2727-2	Hig	1.092	18.9	0.0	1	33/7	2GH	0%
NDTX071109C-01W	WR	1.071	15.2	0.0	1	25/13		3%
CO03243-3W	Hig	1.077	16.3	0.0	2	16/20	1HH	0%
MSW485-2	Hig	1.088	18.3	0.0	1	29/9	1HH	3%
Lamoka	Hig	1.081	16.9	0.0	1	36/4	BOT	0%
Snowden	WR	1.079	16.6	0.0	1	30/6	3GH	0%
AOR09034-3	WR	1.085	17.6	0.0	1	31/9		0%
CIT #5	CAN	1.069	14.9	0.0	1	24/17		0%
MSW509-5	Hig	1.077	16.2	0.0	1	9/31		0%
Olympus	Real	1.078	16.4	0.0	1	16/27	1HH	0%
AC05153-1W	WR	1.086	17.8	0.0	1	10/21	1G	0%
AC01144-1W	SW	1.075	15.9	0.0	1	27/13		0%
CIT #6	CAN	1.080	16.8	0.0	1	2/37		8%
W2978-3	Real	1.077	16.2	0.0	2	34/5		3%
Munich	CAN	1.069	14.8	0.0	1	8/31	1HH	5%
MSY301-2	Hig	1.085	17.7	0.0	1	34/6	BOT-	0%
MSW358-3	Hig	1.077	16.2	0.0	1	23/16		0%
CO07070-10W	WR	1.099	20.1	0.0	1	39/2	BOT-	0%
CIT #7	CAN	1.077	16.2	0.0	2	13/26	1DK	0%
OR09256-2	WR	1.084	17.6	0.0	1	21/21		5%
OR9253-1	WR	1.093	19.1	0.0	2	12/21		0%

One .05" slice per tuber, at least 10 tubers per rep, three reps, 1 min 25 sec, 365°F corn oil.

<sup>1</sup>1=poor, 5=excellent

<sup>2</sup>1=light, 3+=very dark

<sup>3</sup>BOT=Best Of Trial, Vas=vascular heat necrosis, Dark=high sugars, BSB=blackspot bruise, HH=hollow heart, IBS=internal brownspot, SE=sugar ends, PB= pressure bruise, GH=greenheads, Z=zebra

## Western and Southwestern Regional Russet Trial, Springlake

This trial consisted of twenty three entries, including the three check varieties Ranger Russet, Russet Burbank, and Russet Norkotah.

Results were as follows: (Springlake Tables 2a, 2b, 2c, 2d, and 2e)

- TX08352-5Ru and Reveille Russet had the highest total and marketable yield. TX08352-5Ru and Reveille Russet received best of trial designations and high general ratings (Table 2a and 2e).
- Reveille Russet had the highest yield of over 10 oz. tubers (Table 2a).
- CO08231-1RU had the highest yield of less than 4 oz. tubers. Russet Burbank had the highest yield of culls/No.2 tubers (Table 2a).
- Reveille Russet had the highest percentage of marketable yield (Table 2b).
- CO07015-4RU had the highest percentage yield of less than 4 oz. tubers. Russet Burbank had the highest percentage yield of culls/No. 2 tubers (Table 2b).
- A03921-2 had the highest specific gravity (Table 2b).
- Russet Burbank, CO08231-1RU, Shepody, CO08065-2RU, Ranger Russet, and CO05175-1RU were the latest maturing clones. TX08352-5Ru, COTX09022-3RuRE/Y, and CO04220-7RU were the earliest maturing entries (Table 2c).

### Comments on entries:

- |                       |               |   |
|-----------------------|---------------|---|
| • TX08352-5Ru         | Long Russet   | nice size, larger tubers, heavy set, BOT-   |
| • Reveille Russet     | Long Russet   | BOT++, some pointed, higher % of large tubers, heavy set, larger tubers             |
| • Russet Norkotah 278 | Long Russet   | variable size, small, nice skin, second set   |
| • Russet Burbank      | Long Russet   | misshapen, pointed, drop, very small, better shape, ZC++, nice skin, heat sprouts++ |
| • CO08231-1RU         | Long Russet   | variable size, drop, small, light skin  |
| • COTX09022-3RuRE/Y   | Oblong Russet | red eyes, round to oblong shape, nice flesh   |
| • CO05068-1RU         | Oblong Russet | heat sprouts, drop+++, very small, feathering, heat sprouts++                       |

- A03141-6 Long Russet deep eyes, drop, feathering, light skin, heat sprouts, nice shape, small
- AO06191-1 Long Russet pointed, nice dark skin, small
- Shepody Oblong White drop, some rough, white skin, heat sprouts++
- AOR06070-1KF Long Russet poor russet skin, drop, some road map, nice shape, small
- CO04220-7RU Long Russet nice, too small, variable size, heavy set, nice skin, drop
- A06021-1T Long Russet nice skin, smooth
- CO08155-2RU/Y Long Russet drop, light skin, nice light yellow flesh, skinny
- Russet Norkotah Long Russet second set, ZC, nice shape, small, nice skin
- Russet Norkotah 296 Long Russet poor shape, drop, some rough, nice skin
- A03921-2 Long White light skin, small, some road map, very white flesh
- CO05152-5RU Oblong Russet heavy set, late, heat sprouts, very small, nice skin
- COTX09052-2Ru Long Russet variable size, nice skin, very small, high set
- CO08065-2RU Long Russet variable size, nice dark skin, small, very nice skin finish
- Ranger Russet Long Russet pointed, some rough, feathering, small, nice shape and skin
- AO03123-2 Long Russet light skin, small, nice shape
- CO05175-1RU Long Russet drop+++ , poor shape, skinny, second set

Summary:

TX08352-5Ru and Reveille Russet were the outstanding entries based on all factors.



Springlake  
Table 2a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 23 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
TX08352-5Ru	WR	387.5	141.6	114.3	25.1	2.2	0.0	246.0	0.0	4.0	3.8
Reveille Russet	TX ADV	385.4	277.1	124.8	140.0	12.3	0.0	101.6	6.6	4.9	4.2
Russet Norkotah278	TX ADV	378.1	132.6	99.6	33.0	0.0	0.0	220.9	24.6	3.2	3.5
Russet Burbank	WR	356.6	33.7	29.9	3.8	0.0	0.0	281.1	41.8	2.0	3.3
CO08231-1RU	SW	347.8	62.7	46.7	16.1	0.0	0.0	283.1	1.9	2.7	3.3
COTX09022-3RuRE/Y	WR	344.2	70.9	61.0	9.9	0.0	0.0	273.3	0.0	3.0	3.7
CO05068-1RU	WR	344.1	86.3	76.7	9.5	0.0	0.0	239.1	18.8	3.2	3.0
A03141-6	WR	336.7	162.5	114.8	46.3	1.4	0.0	174.2	0.0	2.8	3.0
AO06191-1	WR	336.2	139.7	96.8	38.9	4.0	0.0	168.5	28.0	3.8	3.4
Shepody	WR	332.6	92.8	69.7	23.2	0.0	0.0	189.1	50.7	2.7	3.0
AOR06070-1KF	WR	329.3	98.4	73.3	25.1	0.0	0.0	229.7	1.2	3.0	3.5
CO04220-7RU	WR	324.8	31.6	25.8	5.9	0.0	0.0	291.3	1.9	4.0	3.2
A06021-1T	WR	315.7	103.5	79.3	23.2	1.0	0.0	208.3	3.9	3.3	3.6
CO08155-2RU/Y	SW	303.7	77.1	54.6	22.5	0.0	0.0	218.7	7.9	3.0	3.0
Russet Norkotah	WR	301.3	67.6	57.9	9.7	0.0	0.0	229.6	4.2	3.7	3.5
Russet Norkotah296	TX ADV	301.2	96.3	71.7	23.5	1.0	0.0	183.9	21.0	3.0	3.6
A03921-2	WR	290.5	77.8	72.3	5.5	0.0	0.0	210.9	1.9	3.3	3.2
CO05152-5RU	WR	279.5	14.3	13.8	0.5	0.0	0.0	265.2	0.0	4.0	3.0
COTX09052-2Ru	WR	260.7	42.7	35.8	6.9	0.0	0.0	218.0	0.0	3.0	3.3
CO08065-2RU	SW	244.8	26.6	25.1	1.6	0.0	0.0	218.1	0.0	3.3	3.0
Ranger Russet	WR	237.7	95.9	65.3	29.6	1.0	0.0	137.8	4.0	3.8	3.1
AO03123-2	WR	231.1	26.6	26.6	0.0	0.0	0.0	199.8	4.6	3.3	3.0
CO05175-1RU	WR	227.3	54.8	43.7	8.0	3.1	0.0	160.9	11.6	3.5	2.5
Average		312.9	87.5	64.3	22.1	1.1	0.0	215.2	10.2	3.3	3.3
L.S.D. (.05)		29.0	29.2	26.1	14.3	4.3	ns	33.1	22.1	0.1	0.1

<sup>1</sup> 1=very poor to 5= excellent

Springlake  
Table 2b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 23 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
TX08352-5Ru	WR	36.5	29.5	6.5	0.6	0.0	63.5	0.0	1.068	14.7	Long	Russet
Reveille Russet	TX ADV	71.9	32.4	36.3	3.2	0.0	26.4	1.7	1.074	15.7	Long	Russet
Russet Norkotah278	TX ADV	35.1	26.3	8.7	0.0	0.0	58.4	6.5	1.069	14.8	Long	Russet
Russet Burbank	WR	9.5	8.4	1.1	0.0	0.0	78.8	11.7	1.074	15.7	Long	Russet
CO08231-1RU	SW	18.0	13.4	4.6	0.0	0.0	81.4	0.6	1.073	15.6	Long	Russet
COTX09022-3RuRE/Y	WR	20.6	17.7	2.9	0.0	0.0	79.4	0.0	1.088	18.2	Oblong	Russet
CO05068-1RU	WR	25.1	21.1	2.8	0.0	0.0	69.5	5.5	1.074	15.7	Oblong	Russet
A03141-6	WR	48.3	34.1	13.8	0.4	0.0	51.7	0.0	1.080	16.7	Long	Russet
AO06191-1	WR	41.5	28.8	11.6	1.2	0.0	50.1	8.3	1.082	17.2	Long	Russet
Shepody	WR	27.9	20.9	7.0	0.0	0.0	56.9	15.2	1.081	17.0	Oblong	White
AOR06070-1KF	WR	29.9	22.3	7.6	0.0	0.0	69.8	0.4	1.080	16.7	Long	Russet
CO04220-7RU	WR	9.7	7.9	1.8	0.0	0.0	89.7	0.6	1.076	16.1	Long	Russet
A06021-1T	WR	32.8	25.1	7.3	0.3	0.0	66.0	1.2	1.076	16.0	Long	Russet
CO08155-2RU/Y	SW	25.4	18.0	7.4	0.0	0.0	72.0	2.6	1.078	16.4	Long	Russet
Russet Norkotah	WR	22.4	19.2	3.2	0.0	0.0	76.2	1.4	1.070	14.9	Long	Russet
Russet Norkotah296	TX ADV	32.0	23.8	7.8	0.3	0.0	61.1	7.0	1.069	14.8	Long	Russet
A03921-2	WR	26.8	24.9	1.9	0.0	0.0	72.6	0.6	1.089	18.3	Long	White
CO05152-5RU	WR	5.1	4.9	0.2	0.0	0.0	94.9	0.0	1.073	15.6	Oblong	Russet
COTX09052-2Ru	WR	16.4	13.7	2.7	0.0	0.0	83.6	0.0	1.071	15.2	Long	Russet
CO08065-2RU	SW	10.9	10.2	0.6	0.0	0.0	89.1	0.0	1.075	16.0	Long	Russet
Ranger Russet	WR	40.4	27.5	12.4	0.4	0.0	58.0	1.7	1.076	16.0	Long	Russet
AO03123-2	WR	11.5	11.5	0.0	0.0	0.0	86.5	2.0	1.076	16.0	Long	Russet
CO05175-1RU	WR	24.1	19.2	3.5	1.4	0.0	70.8	5.1	1.069	14.7	Long	Russet
Average		27.0	20.0	6.6	0.3	0.0	69.8	3.1	1.076	16.0		
L.S.D. (.05)		9.0	8.0	4.9	1.4	ns	9.8	5.5	0.004	0.7		

Springlake  
Table 2c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 23 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
TX08352-5Ru	WR	11.5	2.8	2.2	100	100	1.5	2.9	3.0	3.1	59
Reveille Russet	TX ADV	9.1	4.0	1.9	88	88	1.6	2.8	3.6	3.0	38
Russet Norkotah278	TX ADV	11.1	2.8	2.2	100	100	1.5	3.1	3.9	3.3	31
Russet Burbank	WR	13.5	2.2	3.1	100	100	2.4	3.9	4.2	4.0	19
CO08231-1RU	SW	12.6	2.3	2.6	100	100	1.5	2.9	4.0	3.1	28
COTX09022-3RuRE/Y	WR	12.9	2.3	2.1	100	100	2.1	3.7	2.3	3.7	79
CO05068-1RU	WR	11.1	2.6	2.9	100	100	1.5	3.2	3.7	3.4	31
A03141-6	WR	9.4	3.0	2.2	100	100	1.5	3.1	4.1	3.2	23
AO06191-1	WR	8.6	3.2	2.1	100	100	1.5	3.0	3.6	3.1	41
Shepody	WR	10.7	2.7	2.3	92	95	1.9	3.0	4.1	3.2	24
AOR06070-1KF	WR	10.5	2.6	3.5	100	100	2.0	3.5	3.9	3.6	35
CO04220-7RU	WR	13.1	2.0	2.9	100	100	2.0	3.6	2.8	3.6	74
A06021-1T	WR	9.4	2.8	1.8	100	100	1.8	2.7	3.6	2.8	49
CO08155-2RU/Y	SW	10.1	2.5	1.6	100	100	2.0	3.5	3.3	3.6	51
Russet Norkotah	WR	10.0	2.5	2.5	100	100	1.9	3.3	3.3	3.4	56
Russet Norkotah296	TX ADV	9.6	2.6	1.7	100	100	1.5	2.6	3.9	2.7	24
A03921-2	WR	9.7	2.5	2.5	100	100	1.8	3.5	3.9	3.5	23
CO05152-5RU	WR	11.8	2.0	2.8	100	100	2.4	3.5	3.4	3.6	50
COTX09052-2Ru	WR	9.5	2.4	2.3	100	100	1.5	2.4	3.2	2.6	58
CO08065-2RU	SW	9.1	2.2	2.6	100	100	1.8	2.9	4.0	3.0	24
Ranger Russet	WR	6.9	2.9	2.3	100	100	2.0	3.0	4.1	3.2	18
AO03123-2	WR	9.3	2.1	2.4	96	100	1.6	2.9	3.9	3.1	26
CO05175-1RU	WR	9.3	2.2	2.4	95	95	1.9	3.1	4.7	3.1	10
Average		10.4	2.6	2.4	99	99	1.8	3.1	3.7	3.2	38
L.S.D. (.05)		1.7	0.4	0.4	7	ns	0.3	ns	0.4	ns	11

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake  
Table 2d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 23 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
TX08352-5Ru	WR	1.0	3.5	3.8	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Reveille Russet	TX ADV	1.0	3.8	3.8	4.0	3.8	5.0	5.0	5.0	5.0	4.5	0	0	0	0
Russet Norkotah278	TX ADV	1.0	3.6	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Burbank	WR	1.0	3.6	3.9	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO08231-1RU	SW	1.0	3.5	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09022-3RuRE/Y	WR	3.0	3.0	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05068-1RU	WR	1.0	3.0	3.5	4.0	3.5	5.0	5.0	5.0	5.0	3.0	0	0	0	0
A03141-6	WR	1.0	3.5	3.0	3.8	3.0	5.0	5.0	5.0	5.0	3.8	0	0	0	0
AO06191-1	WR	1.0	3.5	4.5	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Shepody	WR	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOR06070-1KF	WR	1.0	3.6	3.6	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO04220-7RU	WR	1.0	3.5	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A06021-1T	WR	1.0	3.8	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO08155-2RU/Y	SW	2.5	3.5	3.3	4.0	3.3	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah	WR	1.0	3.8	4.0	3.6	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah296	TX ADV	1.0	3.6	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A03921-2	WR	1.0	3.5	2.5	4.0	2.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05152-5RU	WR	1.0	3.0	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09052-2Ru	WR	1.0	3.5	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO08065-2RU	SW	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Ranger Russet	WR	1.0	3.8	3.9	4.0	4.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
AO03123-2	WR	1.0	3.5	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05175-1RU	WR	1.0	3.8	3.7	3.8	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.2	3.5	3.5	3.9	3.5	5.0	5.0	5.0	5.0	4.8	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Springlake  
Table 2e.

Notes and general rating for all reps of 23 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
TX08352-5Ru	WR	, nice size, ,	, larger tubers, heavy set, BOT-, ,	4, 4, 4, 4	3.9, 3.8, 3.8, 3.8
Reveille Russet	TX ADV	, BOT, some pointed, higher % of large tubers, ,	, heavy set, BOT, larger tubers, ,	4.9, 4.9, 4.9, 4.9	4, 4, 4.3, 4.3
Russet Norkotah278	TX ADV	variable size , , ,	small, nice skin, , , second set , , very small, better shape, ZC++, nice skin, heat sprouts++	3.2, 3.2, 3.2, 3.2	3.3, 3.5, 3.5, 3.5
Russet Burbank	WR	, , misshapen, pointed, drop,		2, 2, 2, 2	3.3, 3.3, 3.3, 3.3
CO08231-IRU	SW	, variable size, drop, ,	, small, light skin, ,	2.7, 2.7, 2.7, 2.7	3.3, 3.3, 3.3, 3.3
COTX09022-3RuRE/Y	WR	, , ,	, red eyes, round to oblong shape, nice flesh, ,	3, 3, 3, 3	3.5, 3.5, 3.8, 3.8
CO05068-IRU	WR	, heat sprouts, drop, ,	, very small, feathering, heat sprouts++, drop+++,	3.2, 3.2, 3.2, 3.2	3, 3, 3, 3
A03141-6	WR	, , deep eyes, drop,	feathering, light skin, heat sprouts, nice shape, small,	2.8, 2.8, 2.8, 2.8	3, 3, 3, 3
AO06191-1	WR	, , , pointed	, , , nice dark skin, small	3.8, 3.8, 3.8, 3.8	3.4, 3.4, 3.3, 3.4
Shepody	WR	drop, , ,	some rough, white skin, heat sprouts++,	2.7, 2.7, 2.7, 2.7	3, 3, 3, 3
AOR06070-1KF	WR	, , poor russet skin, drop,	, some road map, nice shape, small,	3, 3, 3, 3	3.4, 3.4, 3.6, 3.4
CO04220-7RU	WR	nice, small, variable size, , ,	heavy set, small, nice skin, too small, drop, ,	4, 4, 4, 4	3.3, 3.3, 3, 3.3
A06021-1T	WR	, , ,	, , nice skin, smooth,	3.3, 3.3, 3.3, 3.3	3.6, 3.6, 3.6, 3.6
CO08155-2RU/Y	SW	drop, , ,	light skin, nice light yellow flesh, , skinny,	3, 3, 3, 3	3, 3, 3, 3
Russet Norkotah	WR	, , , second set	, ZC, , nice shape, small, nice skin	3.7, 3.7, 3.7, 3.7	3.5, 3.5, 3.5, 3.5
Russet Norkotah296	TX ADV	, poor shape, drop, ,	, some rough, nice skin, ,	3, 3, 3, 3	3.6, 3.6, 3.6, 3.6
A03921-2	WR	, , ,	, , light skin, small, some road map, very white flesh	3.3, 3.3, 3.3, 3.3	3.2, 3.2, 3.2, 3.2
CO05152-5RU	WR	, , , heavy set, small, late, heat sprouts	, , , very small, nice skin	4, 4, 4, 4	3, 3, 3, 3
COTX09052-2Ru	WR	, , variable size,	nice skin, , very small, high set,	3, 3, 3, 3	3.4, 3.3, 3.3, 3.3
CO08065-2RU	SW	variable size, , ,	nice dark skin, small, very nice skin finish, ,	3.3, 3.3, 3.3, 3.3	3, 3, 3, 3
Ranger Russet	WR	, , pointed,	some rough, feathering, , small, nice shape and skin,	3.8, 3.8, 3.8, 3.8	3, 3, 3.3, 3
AO03123-2	WR	, , ,	light skin, , , small, nice shape	3.3, 3.3, 3.3, 3.3	3, 3, 3, 3
CO05175-1RU	WR	, , ,	drop+++, , poor shape, skinny, second set,	3.5, 3.5, 3.5, 3.5	2.5, 2.5, 2.5, 2.5

## Western and Southwestern Regional Red Trial, Springlake

This trial consisted of seven entries, including the check varieties Red LaSoda and Chieftan.

Results were as follows: (Springlake Tables 3a, 3b, 3c, 3d, and 3e)

- NDC081655-1R and Red LaSoda had the highest general rating (Table 3a).
- Red LaSoda had the highest total, marketable and yield of less than 4 oz. tubers (Table 3a).
- Chieftan had the highest percentage of marketable yield. NDTX5438-11R had the highest percent of less than 4 oz. tubers. (Table 3b).
- NDC081655-1R had the highest average number of tubers per plant.
- Red LaSoda, COTX00104-6R, and NDTX5438-11R were the latest maturing, while NDC081655-1R was the earliest (Table 3c).
- Red LaSoda had the deepest eyes (Table 3d).

### Comments on entries:

- |                |            |  |
|----------------|------------|--|
| • Red LaSoda   | Oblong Red | yield++, deep eyes, ZC                                       |
| • Chieftan     | Oblong Red | light skin, yield+, large tubers                             |
| • NDC081655-1R | Round Red  | small, nice skin color                                       |
| • CO00277-2R   | Oblong Red | variable size, high set, many B's, nice skin, very small, ZC |
| • CO99256-2R   | Round Red  | small, nice skin color, smooth, nice shape                   |
| • COTX00104-6R | Round Red  | road map, poor skin, nice shape, many B's                    |
| • NDTX5438-11R | Round Red  | low yield  |

### Summary:

NDC081655-1R was the outstanding entry based on all factors.

Springlake  
Table 3a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 7 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
Red LaSoda	WR	409.5	81.0	66.5	14.6	0.0	0.0	328.5	0.0	3.6	3.7
Chieftan	WR	299.9	70.7	49.2	21.5	0.0	0.0	223.9	5.3	3.5	3.5
NDC081655-1R	SW	290.0	4.0	4.0	0.0	0.0	0.0	278.0	8.0	3.8	3.4
CO00277-2R	Real	183.7	3.5	3.5	0.0	0.0	0.0	180.3	0.0	3.0	3.4
CO99256-2R	Real	175.5	13.9	13.1	0.7	0.0	0.0	161.6	0.0	3.7	3.5
COTX00104-6R	SW	151.2	20.7	20.7	0.0	0.0	0.0	130.5	0.0	2.5	3.4
NDTX5438-11R	TX-CO	55.3	0.0	0.0	0.0	0.0	0.0	55.3	0.0	2.5	3.5
Average		223.6	27.7	22.4	5.3	0.0	0.0	194.0	1.9	3.2	3.5
L.S.D. (.05)		34.5	13.2	10.0	7.4	ns	ns	31.2	5.4	0.1	0.1

<sup>1</sup> 1=very poor to 5= excellent

Springlake  
Table 3b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 7 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Red LaSoda	WR	19.8	16.2	3.6	0.0	0.0	80.2	0.0	1.072	15.4	Oblong	Red
Chieftan	WR	23.6	16.4	7.2	0.0	0.0	74.7	1.8	1.073	15.5	Oblong	Red
NDC081655-1R	SW	1.4	1.4	0.0	0.0	0.0	95.9	2.8	1.077	16.3	Round	Red
CO00277-2R	Real	1.9	1.9	0.0	0.0	0.0	98.1	0.0	1.067	14.5	Oblong	Red
CO99256-2R	Real	7.9	7.5	0.4	0.0	0.0	92.1	0.0	1.073	15.6	Round	Red
COTX00104-6R	SW	13.7	13.7	0.0	0.0	0.0	86.3	0.0	1.061	13.4	Round	Red
NDTX5438-11R	TX-CO	0.0	0.0	0.0	0.0	0.0	100.0	0.0	1.051	11.6	Round	Red
Average		9.7	8.2	1.6	0.0	0.0	89.6	0.6	1.068	14.6		
L.S.D. (.05)		5.3	5.0	1.7	ns	ns	5.8	ns	0.004	0.7		



Springlake  
Table 3c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 7 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
Red LaSoda	WR	16.0	2.1	4.4	100	100	2.5	4.1	4.7	4.3	0
Chieftan	WR	11.3	2.2	2.9	95	98	1.6	3.5	3.3	3.7	23
NDC081655-1R	SW	17.4	1.4	5.2	100	100	2.4	3.6	2.6	3.7	60
CO00277-2R	Real	12.3	1.3	2.0	93	96	1.8	3.2	4.5	3.6	5
CO99256-2R	Real	12.8	1.4	2.0	79	84	2.0	2.7	3.9	3.3	15
COTX00104-6R	SW	7.1	1.9	1.9	96	96	2.0	2.0	4.7	2.2	0
NDTX5438-11R	TX-CO	9.5	1.3	1.4	36	36	2.0	1.5	4.8	2.6	0
Average		12.3	1.7	2.8	85	87	2.0	2.9	4.1	3.3	15
L.S.D. (.05)		2.4	0.2	0.3	12	8	0.2	0.4	0.4	0.3	10

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake  
Table 3d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 7 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
Red LaSoda	WR	1.0	3.0	1.0	2.0	3.5	5.0	5.0	5.0	5.0	4.0	0	0	0	0
Chieftan	WR	1.0	3.0	1.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDC081655-1R	SW	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO00277-2R	Real	1.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO99256-2R	Real	1.0	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX00104-6R	SW	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX5438-11R	TX-CO	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	2.4	1.0	3.7	3.7	5.0	5.0	5.0	5.0	4.9	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Springlake  
Table 3e.

Notes and general rating for all reps of 7 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
Red LaSoda	WR	, , ,	, , , yield++, deep eyes, ZC	3.6, 3.6, 3.6, 3.6	3.7, 3.6, 3.6, 3.7
Chieftan	WR	, , ,	, light skin, yield+, , large tubers	3.5, 3.5, 3.5, 3.5	3.6, 3.6, 3.3, 3.6
NDC081655-1R	SW	, , , small, nice skin color	, , , nice skin, small	3.8, 3.8, 3.8, 3.8	3.3, 3.5, 3.3, 3.3
CO00277-2R	Real	, , , variable size	, , , high set, many B's, nice skin, very small, ZC	3, 3, 3, 3	3.5, 3.3, 3.3, 3.3
CO99256-2R	Real	, , small,	nice skin color, , smooth, nice shape,	3.7, 3.7, 3.7, 3.7	3.5, 3.5, 3.5, 3.5
COTX00104-6R	SW	, , ,	road map, poor skin, , nice shape, many B's,	2.5, 2.5, 2.5, 2.5	3.3, 3.3, 3.5, 3.5
NDTX5438-11R	TX-CO	, , ,	low yield, , ,	2.5, 2.5, 2.5, 2.5	3.5, 3.5, 3.5, 3.5

## Western and Southwestern Regional Red/Yellow Trial, Springlake

This trial consisted of eight entries.

Results were as follows: (Springlake Tables 4a, 4b, 4c, 4d, and 4e)

- AC05175-3P/Y had a best of trial designation, while BTX2103-1R/Y and NDTX059759-3RY/Y Pinto also received high general ratings (Table 4a and 4f).
- CO05035-1PW/Y had the highest total yield, while ATTX98514-1R/Y had the highest marketable yield (Table 4a).
- BTX2103-1R/Y had the highest yield of less than 4 oz. tubers (Table 4a).
- ATTX98514-1R/Y had the highest percentage of marketable yield. BTX2103-1R/Y, AC03534-2R/Y, and COA07365-4RY had the highest percentage of less than 4 oz. tubers (Table 4b).
- AC03534-2R/Y had the highest average number of tubers per plant (Table 4c).
- CO05035-1PW/Y, CIT #10, and NDTX059759-3RY/Y Pinto were the latest in maturity, while AC05175-3P/Y and AC03534-2R/Y were the earliest in maturity (Table 4c).
- BTX2103-1R/Y and AC05175-3P/Y had the darkest yellow flesh color (Table 4d).

### Comments on entries:

- |                          |              |  |
|--------------------------|--------------|--|
| • CO05035-1PW/Y          | Oblong Pinto | light yellow flesh, nice shape, nice purple color, some hollow heart, FC=3.0         |
| • BTX2103-1R/Y           | Oblong Red   | small, nice color, smooth, nice dark yellow flesh, FC=4.0                            |
| • AC05175-3P/Y           | Round Red    | nice skin finish, yellow flesh, smooth, nice color, shape, and flesh, BOT, FC=4.0    |
| • ATTX98514-1R/Y         | Oblong Red   | light yellow flesh, drop++, ZC, hollow heart++, light skin color, some rough, FC=3.5 |
| • CIT #10                | Oblong Red   | light yellow, drop, poor shape, pointed, rough, FC=3.3                               |
| • NDTX059759-3RY/Y Pinto | Oblong Pinto | small, many b's, psyllid?, some bigger, nice red skin color, FC=3.0                  |
| • AC03534-2R/Y           | Round Red    | very nice yellow flesh, nice skin color, small, many B's, small potato, FC=3.5       |

- COA07365-4RY                      Round Red                      heavy set, small, many B's, light set, small, nice skin,  
FC=3.0

<sup>1</sup>FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

BTX2103-1R/Y, AC05175-3P/Y, and NDTX059759-3RY/Y Pinto were the outstanding entries based on all factors.

Springlake  
Table 4a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 8 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
CO05035-1PW/Y	WR	345.0	77.2	70.4	6.8	0.0	0.0	267.8	0.0	3.5	3.5
BTX2103-1R/Y	TX-CO	320.6	25.1	23.8	1.3	0.0	0.0	295.5	0.0	2.7	3.7
AC05175-3P/Y	WR	316.1	51.4	50.0	1.4	0.0	0.0	264.7	0.0	3.4	3.8
ATTX98514-1R/Y	WR	305.6	109.6	84.8	24.8	0.0	0.0	188.6	7.3	2.7	3.3
CIT #10	CAN	275.0	75.0	56.4	18.7	0.0	0.0	174.9	25.1	2.8	3.0
NDTX059759-3RY/Y Pinto	WR	250.6	25.7	25.7	0.0	0.0	0.0	224.9	0.0	3.0	3.8
AC03534-2R/Y	WR	250.2	6.9	6.9	0.0	0.0	0.0	243.3	0.0	1.5	3.5
COA07365-4RY	WR	172.9	0.9	0.9	0.0	0.0	0.0	170.0	2.0	3.2	3.3
Average		279.5	46.5	39.9	6.6	0.0	0.0	228.7	4.3	2.9	3.5
L.S.D. (.05)		30.8	18.2	15.1	6.4	ns	ns	33.6	8.3	0.1	0.1

<sup>1</sup> 1=very poor to 5= excellent

Springlake  
Table 4b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 8 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
CO05035-1PW/Y	WR	22.4	20.4	2.0	0.0	0.0	77.6	0.0	1.074	15.7	Oblong	Pinto
BTX2103-1R/Y	TX-CO	7.8	7.4	0.4	0.0	0.0	92.2	0.0	1.074	15.6	Oblong	Red
AC05175-3P/Y	WR	16.3	15.8	0.4	0.0	0.0	83.7	0.0	1.075	15.8	Round	Red
ATTX98514-1R/Y	WR	35.9	27.8	8.1	0.0	0.0	61.7	2.4	1.066	14.2	Oblong	Red
CIT #10	CAN	27.3	20.5	6.8	0.0	0.0	63.6	9.1	1.068	14.6	Oblong	Red
NDTX059759-3RY/Y Pinto	WR	10.3	10.3	0.0	0.0	0.0	89.7	0.0	1.069	14.8	Oblong	Pinto
AC03534-2R/Y	WR	2.7	2.3	0.0	0.0	0.0	97.3	0.0	1.072	15.3	Round	Red
COA07365-4RY	WR	0.5	0.5	0.0	0.0	0.0	98.3	1.2	1.075	15.9	Round	Red
Average		15.4	13.1	2.2	0.0	0.0	83.0	1.6	1.071	15.2		
L.S.D. (.05)		6.9	5.6	2.3	ns	ns	6.6	2.9	0.003	2.3		

Springlake  
Table 4c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 8 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
CO05035-1PW/Y	WR	13.5	2.1	2.2	98	100	1.5	3.6	5.0	4.0	0
BTX2103-1R/Y	TX-CO	16.7	1.6	3.4	100	100	1.6	3.7	3.4	3.9	43
AC05175-3P/Y	WR	12.8	2.0	2.4	95	100	2.1	3.1	3.0	3.4	59
ATTX98514-1R/Y	WR	9.2	2.7	1.4	100	100	1.6	3.1	4.3	3.4	11
CIT #10	CAN	8.9	2.6	1.6	100	100	2.0	2.8	5.0	3.1	0
NDTX059759-3RY/Y Pinto	WR	13.4	1.5	2.3	100	100	1.8	3.3	5.0	3.5	0
AC03534-2R/Y	WR	18.1	1.2	2.2	98	98	2.4	3.3	3.0	3.6	50
COA07365-4RY	WR	11.4	1.2	3.1	100	100	2.5	3.4	3.5	3.6	38
Average		13.0	1.9	2.3	99	100	1.9	3.3	4.0	3.5	25
L.S.D. (.05)		2.3	0.3	0.5	ns	ns	0.5	0.4	0.5	0.3	14

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large



Springlake  
Table 4d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 8 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
CO05035-1PW/Y	WR	3.0	2.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
BTX2103-1R/Y	TX-CO	4.0	2.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC05175-3P/Y	WR	4.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98514-1R/Y	WR	3.5	3.0	1.0	3.6	3.5	5.0	5.0	5.0	5.0	5.0	25	0	0	0
CIT #10	CAN	3.3	3.0	1.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059759-3RY/Y Pinto	WR	3.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC03534-2R/Y	WR	3.5	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COA07365-4RY	WR	3.0	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.4	2.5	1.0	4.0	3.9	5.0	5.0	5.0	5.0	5.0	4	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Springlake  
Table 4e.

Notes and general rating for all reps of 8 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
CO05035-1PW/Y	WR	, , light yellow flesh,	, , nice shape, nice purple color, some hollow heart,	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.5, 3.5
BTX2103-1R/Y	TX-CO	, small, ,	, nice color, smmooth, nice dark yellow flesh, ,	2.7, 2.7, 2.7, 2.7	3.6, 3.6, 3.7, 3.7
AC05175-3P/Y	WR	, , , nice skin finish, yellow flesh	, smooth, , nice color, shape, and flesh, BOT	3.4, 3.4, 3.4, 3.4	3.8, 3.8, 3.8, 3.8
ATTX98514-1R/Y	WR	, , light yellow flesh, drop,	better rep, ZC, hollow heart++, drop, light skin color, some rough,	2.7, 2.7, 2.7, 2.7	3.3, 3.3, 3.3, 3.3
CIT #10	CAN	light yellow , drop, , ,	, poor shape, pointed, rough, ,	2.8, 2.8, 2.8, 2.8	3, 3, 3, 3
NDTX059759-3RY/Y Pinto	WR	, , small,	, , many b's, psyllid?, some bigger, nice red skin color, , nice skin color,small, nice flesh, many B's, , small potato	3, 3, 3, 3	3.8, 3.8, 3.8, 3.8
AC03534-2R/Y	WR	, very nice yellow flesh, ,		1.5, 1.5, 1.5, 1.5	3.5, 3.5, 3.5, 3.5
COA07365-4RY	WR	, , , heavy set, small	, , many B's, light set, small, nice skin	3.2, 3.2, 3.2, 3.2	3.3, 3.3, 3.3, 3.3

## Western and Southwestern Regional White/Yellow Trial, Springlake

This trial consisted of fifteen entries, including the check varieties Yukon Gold and Sierra Gold.

Results were as follows: (Springlake Tables 5a, 5b, 5c, 5d, and 5e)

- Actrice, Sierra Gold, and COTX03134-1W had high general ratings and best of trial notations, while Yukon Gold and CIT #4 also had high general ratings (Table 5a and 5e).
- 105/2/W/06 had the highest total yield, while Actrice had the highest marketable yield. Actrice and Maybell had the highest yield of over 10 oz. tubers (Table 5a).
- COTX03134-1W had the highest yield of less than 4 oz. tubers (Table 5a).
- Maybell had the highest percentage of marketable yield, while COTX03134-1W had the highest percentage of less than 4 oz. tubers (Table 5b).
- COTX03134-1W had the highest specific gravity (Table 5b).
- CO05037-3W/Y had the highest number of tubers per plant (Table 5c).
- Electra, KAG, and Maybell were the latest in maturity, while CIT #4, Actrice, and Yukon Gold were the earliest in maturity (Table 5c).
- Yukon Gold and Sierra Gold had the darkest yellow flesh color (Table 5d).

### Comments on entries:

- |                |               |   |
|----------------|---------------|---|
| • 105/2/W/06   | Oblong White  | variable size, yield+, variable shape and size, heat sprouts, drop+, FC=1.0                 |
| • Actrice      | Oblong White  | BOT+, nice, large tubers, nice size and flesh, smooth, nice size profile, FC=3.0            |
| • TXWL-1       | Oblong White  | deep eyes, rough, yield+, nice white flesh, red eyes, some splash, brown center, FC=1.0     |
| • Yukon Gold   | Oblong White  | smooth, nice shape and flesh, FC=3.5  |
| • COTX03134-1W | Oblong White  | lots of smalls, white flesh, nice size, BOT for small potato, smooth, nice shape, FC=1.0    |
| • Sierra Gold  | Oblong Russet | yield problems, nice uniform, BOT+, FC=3.5  |
| • Electra      | Oblong White  | heavy set, heat sprouts+, variable size, drop+, poor skin finish, small, nice flesh, FC=2.6 |

- BUTE Oblong White Bruce likes, heavy set, lenticels, poor skin finish, poor shape, small, drop, uneven russeting, FC=1.0
- CIT #4 Round White smooth, nice shape, FC=1.0
- CIT #2 Oblong White heat sprouts+, variable size, drop, heavy set, lenticels, FC=2.0
- Vitabella Oblong White poor shape, small, light set, heat sprouts, FC=2.5
- KAG Oblong White heat sprouts, drop+, ZC, small, poor shape, variable size, light flesh, FC=2.5
- Maybell Long White low yield, yellow flesh, light set, large tubers, light flesh, FC=2.5
- A06336-5Y Round White small, very small, high set, skin color??, small potato, FC=3.0
- A06336-2Y Oblong White red eyes, skin color??, light set, small, nice flesh, FC=3.3

<sup>1</sup>FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

Actrice, COTX03134-1W, and Sierra Gold were the outstanding entries bases on all factors.

Springlake  
Table 5a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 15 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
105/2/W/06	Real	366.0	110.1	57.6	48.1	4.4	0.0	225.3	30.6	3.0	2.6
Actrice	Real	358.7	201.3	76.3	107.4	17.6	0.0	157.4	0.0	4.8	3.9
TXWL-1	WR	340.2	183.7	66.4	102.8	14.5	0.0	156.5	0.0	3.5	3.5
Yukon Gold	WR	315.3	175.3	101.0	69.6	4.7	0.0	137.9	2.1	3.5	3.6
COTX03134-1W	WR	288.5	0.0	0.0	0.0	0.0	0.0	288.5	0.0	3.7	3.8
Sierra Gold	TX-CO	268.7	152.0	97.1	45.9	9.1	0.0	116.7	0.0	3.5	4.4
Electra	Real	267.4	23.6	14.0	9.5	0.0	0.0	219.3	24.6	2.0	3.3
BUTE	Real	255.9	17.3	17.3	0.0	0.0	0.0	230.3	8.4	3.5	2.5
CIT #4	CAN	252.1	117.8	64.0	47.8	6.1	0.0	134.2	0.0	3.5	3.7
CIT #2	CAN	242.5	19.6	19.6	0.0	0.0	0.0	218.5	4.5	2.3	3.5
Vitabella	Real	218.2	0.6	0.6	0.0	0.0	0.0	197.2	20.5	3.2	3.0
KAG	Real	208.5	26.9	26.9	0.0	0.0	0.0	178.4	3.2	2.0	2.5
Maybell	Real	197.0	133.2	41.1	75.2	17.0	0.0	62.6	1.1	2.7	3.4
A06336-5Y	WR	190.0	1.7	1.7	0.0	0.0	0.0	188.3	0.0	3.8	3.5
A06336-2Y	WR	169.1	13.5	12.7	0.8	0.0	0.0	150.1	5.5	3.4	3.2
Average		262.5	78.4	39.8	33.8	4.9	0.0	177.4	6.7	3.2	3.4
L.S.D. (.05)		30.8	27.7	11.9	23.5	11.6	ns	38.3	11.8	0.1	0.2

<sup>1</sup> 1=very poor to 5= excellent

Springlake  
Table 5b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 15 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
105/2/W/06	Real	30.1	15.7	13.1	1.2	0.0	61.6	8.4	1.072	15.3	Oblong	White
Actrice	Real	56.1	21.3	29.9	4.9	0.0	43.9	0.0	1.064	13.9	Oblong	White
TXWL-1	WR	54.0	19.5	30.2	4.3	0.0	46.0	0.0	1.067	14.5	Oblong	White
Yukon Gold	WR	55.6	32.0	22.1	1.5	0.0	43.7	0.7	1.080	16.9	Oblong	White
COTX03134-1W	WR	0.0	0.0	0.0	0.0	0.0	100.0	0.0	1.090	18.6	Oblong	White
Sierra Gold	TX-CO	56.6	36.1	17.1	3.4	0.0	43.4	0.0	1.083	17.3	Oblong	Russet
Electra	Real	8.8	4.5	3.6	0.0	0.0	82.0	9.2	1.061	13.4	Oblong	White
BUTE	Real	6.8	6.8	0.0	0.0	0.0	90.0	3.3	1.061	13.4	Oblong	White
CIT #4	CAN	46.7	25.4	19.0	2.4	0.0	53.3	0.0	1.072	15.3	Round	White
CIT #2	CAN	8.1	8.1	0.0	0.0	0.0	90.1	1.9	1.082	17.2	Oblong	White
Vitabella	Real	0.3	0.3	0.0	0.0	0.0	90.4	9.4	1.076	16.0	Oblong	White
KAG	Real	12.9	12.9	0.0	0.0	0.0	85.6	1.6	1.070	15.0	Oblong	White
Maybell	Real	67.6	20.9	38.2	8.6	0.0	31.8	0.6	1.075	15.9	Long	White
A06336-5Y	WR	0.9	0.9	0.0	0.0	0.0	99.1	0.0	1.074	15.7	Round	White
A06336-2Y	WR	8.0	7.5	0.5	0.0	0.0	88.8	3.2	1.072	15.3	Oblong	White
Average		27.5	14.1	11.6	1.8	0.0	70.0	2.5	1.073	15.6		
L.S.D. (.05)		8.1	5.1	7.5	3.8	ns	9.1	4.5	0.003	0.5		

Springlake  
Table 5c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 15 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
105/2/W/06	Real	12.5	2.4	1.8	100	100	1.5	2.7	3.9	2.9	23
Actrice	Real	8.5	3.5	1.7	100	100	2.5	3.5	3.0	3.6	50
TXWL-1	WR	9.2	3.1	2.1	96	98	2.1	3.7	4.3	3.8	10
Yukon Gold	WR	9.2	2.8	1.8	100	100	1.9	3.7	3.2	3.9	50
COTX03134-1W	WR	21.2	1.1	3.6	100	100	2.1	3.8	3.3	3.9	48
Sierra Gold	TX-CO	5.9	3.8	1.9	100	100	2.3	3.5	3.3	3.7	45
Electra	Real	11.8	1.9	1.7	97	98	1.6	3.1	5.0	3.3	0
BUTE	Real	12.8	1.6	1.5	100	100	1.5	2.4	4.0	2.7	15
CIT #4	CAN	6.4	3.3	2.2	100	100	2.4	3.3	2.5	3.5	68
CIT #2	CAN	10.8	1.9	2.1	100	100	1.9	3.6	3.0	3.8	58
Vitabella	Real	10.2	1.8	1.9	100	100	1.9	3.3	3.3	3.5	45
KAG	Real	9.7	2.0	1.6	79	90	1.8	3.1	4.8	3.5	5
Maybell	Real	4.8	4.1	1.5	81	84	1.6	3.0	4.8	3.4	8
A06336-5Y	WR	10.6	1.5	1.9	95	98	2.0	3.1	3.3	3.4	35
A06336-2Y	WR	8.5	1.7	2.7	98	100	1.9	3.5	3.5	3.7	35
Average		10.1	2.4	2.0	96	98	1.9	3.3	3.7	3.5	33
L.S.D. (.05)		2.0	0.3	0.4	8	5	0.4	0.4	0.3	0.3	9

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake  
Table 5d.

Flesh color, tuber shape, degree of russetting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 15 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russetting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
105/2/W/06	Real	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Actrice	Real	3.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXWL-1	WR	1.0	3.0	1.0	2.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
Yukon Gold	WR	3.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX03134-1W	WR	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Sierra Gold	TX-CO	3.5	3.0	3.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Electra	Real	2.6	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BUTE	Real	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CIT #4	CAN	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CIT #2	CAN	2.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Vitabella	Real	2.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
KAG	Real	2.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Maybell	Real	2.5	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A06336-5Y	WR	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A06336-2Y	WR	3.3	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.2	2.7	1.1	3.9	1.2	5.0	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated



Springlake  
Table 5e.

Notes and general rating for all reps of 15 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
105/2/W/06	Real	, variable size, yellow flesh 1, ,	yield+, , variable shape and size, heat sprouts, drop+, large tubers, BOT, nice size and flesh, smooth, , nice size profile	3, 3, 3, 3	2.5, 2.5, 3, 2.5
Actrice	Real	, , BOT, nice,	, deep eyes, rough, yield+, nice white flesh, red eyes, some splash, brown center	4.8, 4.8, 4.8, 4.8	3.8, 3.9, 4, 3.8
TXWL-1	WR	, , ,	, , , smooth, nice shape and flesh	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.5, 3.4
Yukon Gold	WR	yellow flesh 2, , ,	, , , smooth, nice shape and flesh	3.5, 3.5, 3.5, 3.5	3.8, 3.8, 3.6, 3.3
COTX03134-1W	WR	, , white flesh, lots of smalls,	, nice size, BOT for small potato, , smooth, nice shape	3.7, 3.7, 3.7, 3.7	3.8, 3.8, 3.8, 3.8
Sierra Gold	TX-CO	, , , yield problems	nice uniform, BOT+, , , , poor skin finish, heat sprouts+, drop, small, variable size, nice flesh	3.5, 3.5, 3.5, 3.5	4, 4.5, 4.5, 4.5
Electra	Real	heavy set, heat sprouts, variable size, drop, , ,	lenticels, poor skin finish, , poor shape, small, drop, uneven russetting, light set	2, 2, 2, 2	3.3, 3.3, 3.3, 3.3
BUTE	Real	Bruce likes, heavy set, yellow flesh 1.5, ,	uneven russetting, light set	3.5, 3.5, 3.5, 3.5	2.5, 2.5, 2.5, 2.5
CIT #4	CAN	, , ,	, , , smooth, nice shape,	3.5, 3.5, 3.5, 3.5	3.7, 3.7, 3.7, 3.6
CIT #2	CAN	, , , heat sprouts, variable size, drop	, heat sprouts, heavy set, lenticels,	2.3, 2.3, 2.3, 2.3	3.5, 3.5, 3.5, 3.5
Vitabella	Real	, , ,	, , poor shape, small, light set, heat sprouts	3.2, 3.2, 3.2, 3.2	3, 3, 3, 3
KAG	Real	, , heat sprouts, drop, yellow flesh 1.5,	, ZC, drop, small, , poor shape, variable size, light flesh	2, 2, 2, 2	2.5, 2.5, 2.5, 2.5
Maybell	Real	, , low yield, yellow flesh 2,	light set, large tubers, light flesh, , ,	2.7, 2.7, 2.7, 2.7	3.4, 3.4, 3.4, 3.4
A06336-5Y	WR	, , small, yellow flesh 2,	very small, high set, skin color??, small potato, ,	3.8, 3.8, 3.8, 3.8	3.5, 3.5, 3.5, 3.5
A06336-2Y	WR	, , yellow flesh 2.5,	red eyes, skin color??, , , light set, small, nice flesh	3.4, 3.4, 3.4, 3.4	3.2, 3, 3, 3.4

## Outstanding Texas Advanced Chip Selections, 2016

**Overall Summary- Springlake and Dalhart:** The Texas Advanced Chip Selection Trial at Springlake included forty one entries, with forty entries planted at Dalhart. Atlantic was the check variety for both locations. Based on both trials (TX12484-2W ZC, TX13580-1W, AORTX09033-14W, NDTX1246-5W, TX12483-5W, TX12484-3W ZC, TX12483-6W, TX12484-1W ZC, AORTX09144-2W, NDTX059828-2W, NDTX12135-1W, TX05249-10W, TX09429-1P/P, AORTX09037-3W/Y, TX12483-4W, and TX12474-1P/R) will be re-evaluated in the 2017 season. The following clones will be entered in the National Chip trial (AORTX09032-3W, AORTX09033-4W, AORTX09037-1W, AORTX09037-4W/Y, AORTX10247-1W/Y, NDTX113030C-3W, AORTX09033-11W, AORTX09037-5W/Y, AORTX09144-2W, COTX12235-2W, COTX12428-1W, NDTX113467CB-1W, NDTX12203AB-1W, NDTX1244-3W/Y, NDTX1246-3W/Y, and TX13563-1W)

### Texas Advanced Chip Trial, Springlake

This chip trial consisted of forty six entries, including the check variety Atlantic.

Results were as follows: (Springlake Tables 6a, 6b, 6c, 6d, 6e, and 6f)

- COTX10079-11W was the outstanding entry based on general rating and best of trial designations for tuber appearance, and chip quality. ATTX11484-3W and TX12483-8W, had a high general rating and best of trial designations for appearance. NDTX060700C-1W had a best of trial designation for chip quality (Tables 6a, 6e, and 6f).
- AORTX09037-1W/Y had the highest total yield, while COTX10079-11W had the highest marketable yield. NDTX113467CB-1W had the highest yield of less than 4 oz. tubers (Table 6a).
- TX03196-1W had the highest percentage of marketable yield (Table 6b).
- TX12474-1P/R had the highest percentage of less than 4 oz. tubers (Table 6b).
- ATTX07042-3W/Y and NDTX113467CB-1W had the highest specific gravity (Table 6b).
- TX12483-4W, AORTX09032-3W, and TX12483-5W were the latest in maturity, while NDTX113029C-2W, TX12484-4W ZC, and NDTX059828-2W were the earliest in maturity (Table 6c).
- ATTX07042-3W/Y, COTX10079-11W, AORTX09033-11W, NDTX060700C-1W, and TX09429-1P/P had over 80% percent good chips (Table 6f).

Comments on entries:

- AORTX09037-1W/Y Oblong White smooth, light yellow flesh, yield+, CR=2, Chip Notes: Drop
- AORTX09037-4W Oblong White nice size and shape, small, CR=1, Chip Notes: keep-
- AATTX07042-3W/Y Oblong White nice size and shape, light yellow flesh, BOT, yield+, CR=2, Chip Notes: NICE
- NDTX113467CB-1W Oblong White small, CR=1, Chip Notes: K
- NDTX113030C-3W Oblong White nice size and shape, yield+, CR=1, Chip Notes: keep-
- TX12484-2W ZC Oblong White yield+, CR=1, Chip Notes: K
- NDTX113037C-3W Oblong White feathering, small, CR=1, Chip Notes: keep-
- COTX10079-11W Oblong White large tubers, yield+, nice shape, BOT+, CR=1, Chip Notes: BOT
- TX12483-4W Oblong White nice yield and size, CR=1, Chip Notes: keep-
- AORTX09037-5W Round White uniform, nice size and shape, CR=1, Chip Notes: NICE
- TX12484-3W ZC Oblong White smooth, yield+, nice size, CR=1, Chip Notes: K+
- NDTX102640Cb-1W Oblong White too small, heavy set, CR=2, Chip Notes: keep-
- AATTX11484-3W Round White large tubers, nice shape and size, BOT-, CR=3, Chip Notes: DROP
- AORTX09032-3W Oblong White small, nice shape, ZC, CR=1, Chip Notes: DROP-
- Atlantic Oblong Buff nice size and shape, poor internals, CR=1, Chip Notes: keep-
- TX12479-1W Oblong White nice shape, CR=1, Chip Notes: keep-
- TX12483-6W Oblong White buff skin, nice shape, CR=1, Chip Notes: K+
- AORTX10247-1W/Y Oblong White smooth, nice shape and size, nice flesh, ZC+, CR=2, Chip Notes: NICE
- NDTX102796CbS-2W Oblong White nice size, smooth, CR=1, Chip Notes: DROP
- AORTX09033-11W Oblong White variable shape, smooth, light set, too small, CR=1, Chip Notes: NICE
- NDTX113029C-2W Oblong White poor shape, drop++, CR=2, Chip Notes: keep-
- WTX10646-2W Oblong White smooth, small, uniform, CR=1, Chip Notes: keep-
- NDTX081648CB-1W Oblong White large tubers, nice size, CR=1, Chip Notes: keep-
- TX12483-8W Oblong White smooth, nice size, low yield, BOT, CR=1, Chip Notes: K

- TX12484-1W ZC Oblong White large tubers, variable size, CR=1, Chip Notes: K
- TX03196-1W Oblong White nice size and shape, large tubers, keep+, CR=1, Chip Notes: NICE
- NDTX113030C-10W Oblong White very small, uniform, some vascular discoloration, CR=1, Chip Notes: keep-
- TX05249-10W Round White nice shape, CR=2, Chip Notes: Drop-
- TX12484-4W ZC Oblong White smooth, nice shape, some deep eyes, CR=1, Chip Notes: keep-
- TX12486-1W Oblong White uniform, nice shape, CR=1, Chip Notes: Drop
- AORTX09033-4W Oblong White small, light set, CR=1, Chip Notes: K
- NDTX102514ABC-5W Oblong White too oblong, poor shape, small, drop, CR=1, Chip Notes: K
- NDTX071109C-1W Oblong White large tubers, nice shape, ZC, CR=1, Chip Notes: NICE
- NDTX060700C-1W Oblong White very small, light set, drop+, CR=1, Chip Notes: BOT
- Waneta Oblong White nice shape and size, light set, CR=1, Chip Notes: keep-
- ATTX11476-11W Oblong White low yield, light set, drop, CR=3, Chip Notes: DROP
- NDTX102852CB-3Ru Oblong White light set, large tubers, Russet, CR=1, Chip Notes: K
- NDTX059828-2W Oblong White red eyes, ZC tolerant, CR=1, Chip Notes: Drop
- TX09429-1P/P Round Purple nice deep purple flesh, CR=3, Chip Notes: keep-
- NDTX102852CB-4Ru Oblong Russet poor shape, drop, CR=1, Chip Notes: NICE
- AORTX11476-2W Oblong White light set, rough, too small, CR=2, Chip Notes: K
- TX05249-11W Oblong White low yield, drop+, CR=3, Chip Notes: keep-
- TX12474-1P/R Round Purple very small, red flesh, CR=3, Chip Notes: K
- WTX10666-8W Oblong White small, smooth, low yield, drop, CR=1, Chip Notes: keep-
- TX12483-5W Oblong White low yield, drop, CR=1, Chip Notes: BOT
- TX12479-16W Round White low yield, drop+, CR=1, Chip Notes: keep-
- NDTX102702C-1W Round White drop, very low, yield, CR=2, Chip Notes: NICE

<sup>1</sup>CR=chip color rating 1=light to 3= dark

### Summary:

COTX10079-11W was the outstanding entry based on all factors. ATTX07042-3W/Y, AORTX09033-11W, and NDTX060700C-1W also deserve mention.

Springlake  
Table 6a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 46 entries in the Texas Advanced Chip  
Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
AORTX09037-1W/Y	NATCH16	444.2	178.0	152.1	25.9	0.0	0.0	266.2	0.0	3.7
AORTX09037-4W	NATCH16	441.7	154.7	147.8	6.9	0.0	0.0	286.9	0.0	3.7
ATTX07042-3W/Y	TXCH	400.7	132.2	106.8	25.4	0.0	0.0	268.4	0.0	3.8
NDTX113467CB-1W	TXCH	396.0	87.5	83.3	4.1	0.0	0.0	308.6	0.0	3.4
NDTX113030C-3W	NATCH16	388.4	149.0	127.7	21.3	0.0	0.0	239.4	0.0	3.7
TX12484-2W ZC	TXCH	380.7	224.8	157.8	62.9	4.1	0.0	155.9	0.0	3.5
NDTX113037C-3W	NATCH16	376.7	142.3	133.4	8.8	0.0	0.0	234.4	0.0	3.6
COTX10079-11W	TXCH	371.0	245.0	163.9	77.6	3.5	0.0	126.0	0.0	4.0
TX12483-4W	TXCH	370.4	234.2	152.8	70.7	10.6	0.0	136.2	0.0	3.7
AORTX09037-5W	TXCH	368.4	72.6	71.7	0.9	0.0	0.0	295.8	0.0	3.6
TX12484-3W ZC	TXCH	365.6	191.0	149.3	41.7	0.0	0.0	174.6	0.0	3.7
NDTX102640Cb-1W	TXCH	361.6	99.0	82.5	16.6	0.0	0.0	262.6	0.0	3.2
ATTX11484-3W	TXCH	357.7	191.2	149.5	40.6	1.1	0.0	166.5	0.0	3.8
AORTX09032-3W	NATCH16	328.0	147.8	134.6	10.1	3.0	0.0	180.2	0.0	3.6
Atlantic	WR	323.0	198.0	125.1	62.8	10.1	0.0	125.0	0.0	3.8
TX12479-1W	TXCH	319.5	165.2	132.9	30.4	1.8	0.0	154.4	0.0	3.5
TX12483-6W	TXCH	318.4	104.9	92.8	12.1	0.0	0.0	213.5	0.0	3.5
AORTX10247-1W/Y	NATCH16	313.9	127.2	112.9	14.3	0.0	0.0	186.7	0.0	3.6
NDTX102796CbS-2W	TXCH	307.0	209.5	138.3	71.2	0.0	0.0	97.5	0.0	3.5
AORTX09033-11W	TXCH	304.4	58.1	58.1	0.0	0.0	0.0	246.3	0.0	3.4
NDTX113029C-2W	TXCH	298.4	63.1	61.5	1.6	0.0	0.0	235.3	0.0	2.7
WTX10646-2W	TXCH	295.4	95.8	91.4	4.3	0.0	0.0	199.7	0.0	3.7
NDTX081648CB-1W	TXCH	284.7	178.4	129.3	46.8	2.2	0.0	106.3	0.0	3.6
TX12483-8W	TXCH	282.9	193.7	116.6	72.1	4.9	0.0	89.2	0.0	3.7
TX12484-1W ZC	TXCH	282.4	137.2	106.1	26.3	4.8	0.0	145.2	0.0	3.3
TX03196-1W	TXCH	276.8	192.4	106.8	67.8	17.8	0.0	84.4	0.0	3.8
NDTX113030C-10W	NATCH16	271.7	36.6	36.6	0.0	0.0	0.0	235.1	0.0	3.3
TX05249-10W	TXCH	271.4	153.8	118.9	34.9	0.0	0.0	117.5	0.0	3.5
TX12484-4W ZC	TXCH	265.7	110.1	91.1	19.0	0.0	0.0	155.6	0.0	3.4
TX12486-1W	TXCH	262.7	157.6	102.5	52.7	2.4	0.0	105.1	0.0	3.6
AORTX09033-4W	NATCH16	258.1	104.2	91.3	12.9	0.0	0.0	154.0	0.0	3.4
NDTX102514ABC-5W	TXCH	255.8	28.3	27.4	0.9	0.0	0.0	227.5	0.0	3.0
NDTX071109C-1W	TXCH	230.9	118.0	91.3	26.7	0.0	0.0	112.9	0.0	3.6
NDTX060700C-1W	TXCH	210.5	21.3	21.3	0.0	0.0	0.0	189.3	0.0	3.0
Waneta	TXCH	208.8	127.6	96.6	30.9	0.0	0.0	81.2	0.0	3.6
ATTX11476-11W	NATCH16	195.0	40.8	40.8	0.0	0.0	0.0	154.2	0.0	2.8
NDTX102852CB-3Ru	NATCH16	193.7	81.9	51.0	24.4	6.5	0.0	111.8	0.0	3.2
Average		347.2	151.2	119.1	30.2	1.8	0.0	196.0	0.0	3.6
L.S.D. (.05)		44.7	28.5	25.9	14.8	7.6	ns	36.1	ns	0.1

<sup>1</sup> 1=very poor to 5= excellent

Springlake  
Table 6a. cont

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 46 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
NDTX059828-2W	TXCH	191.7	56.9	56.9	0.0	0.0	0.0	134.8	0.0	3.4
TX09429-1P/P	TXCH	187.0	47.9	47.9	0.0	0.0	0.0	139.2	0.0	3.8
NDTX102852CB-4Ru	NATCH16	186.6	106.4	85.0	14.5	6.9	0.0	78.8	1.3	2.5
AORTX11476-2W	TXCH	180.5	45.3	40.1	5.2	0.0	0.0	135.2	0.0	3.2
TX05249-11W	TXCH	164.9	84.0	56.7	27.3	0.0	0.0	80.9	0.0	2.8
TX12474-1P/R	TXCH	162.5	14.9	14.9	0.0	0.0	0.0	147.6	0.0	3.5
WTX10666-8W	NATCH16	154.5	60.5	53.9	6.6	0.0	0.0	94.0	0.0	3.2
TX12483-5W	TXCH	151.3	94.8	58.8	33.9	2.2	0.0	56.5	0.0	2.7
TX12479-16W	TXCH	100.3	59.1	45.3	13.8	0.0	0.0	41.1	0.0	3.0
NDTX102702C-1W	TXCH	67.8	24.0	24.0	0.0	0.0	0.0	43.7	0.0	2.0
Average		154.7	59.4	48.3	10.1	0.9	0.0	95.2	0.1	3.0
L.S.D. (.05)		44.7	28.5	25.9	14.8	7.6	ns	36.1	ns	0.1

<sup>1</sup> 1=very poor to 5= excellent

Springlake  
Table 6b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 46 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
AORTX09037-1W/Y	NATCH16	40.1	34.2	5.8	0.0	0.0	59.9	0.0	1.077	16.3	Oblong	White
AORTX09037-4W	NATCH16	35.0	33.5	1.6	0.0	0.0	65.0	0.0	1.079	16.6	Oblong	White
ATTX07042-3W/Y	TXCH	33.0	26.7	6.3	0.0	0.0	67.0	0.0	1.088	18.2	Oblong	White
NDTX113467CB-1W	TXCH	22.1	21.0	1.0	0.0	0.0	77.9	0.0	1.087	18.1	Oblong	White
NDTX113030C-3W	NATCH16	38.4	32.9	5.5	0.0	0.0	61.6	0.0	1.083	17.4	Oblong	White
TX12484-2W ZC	TXCH	59.0	41.5	16.5	1.1	0.0	41.0	0.0	1.076	16.1	Oblong	White
NDTX113037C-3W	NATCH16	37.8	33.0	2.3	0.0	0.0	62.2	0.0	1.080	16.8	Oblong	White
COTX10079-11W	TXCH	66.0	44.2	20.9	0.9	0.0	34.0	0.0	1.067	14.4	Oblong	White
TX12483-4W	TXCH	63.2	41.3	19.1	2.9	0.0	36.8	0.0	1.079	16.5	Oblong	White
AORTX09037-5W	TXCH	19.7	19.5	0.2	0.0	0.0	80.3	0.0	1.080	16.8	Round	White
TX12484-3W ZC	TXCH	52.2	40.9	11.4	0.0	0.0	47.8	0.0	1.083	17.3	Oblong	White
NDTX102640Cb-1W	TXCH	27.4	22.8	4.6	0.0	0.0	72.6	0.0	1.067	14.4	Oblong	White
ATTX11484-3W	TXCH	53.5	41.8	11.4	0.3	0.0	46.5	0.0	1.073	15.6	Round	White
AORTX09032-3W	NATCH16	45.1	41.0	3.1	0.9	0.0	54.9	0.0	1.069	14.9	Oblong	White
Atlantic	WR	61.3	38.7	19.4	3.1	0.0	38.7	0.0	1.093	19.1	Oblong	Buff
TX12479-1W	TXCH	51.7	41.6	9.5	0.6	0.0	48.3	0.0	1.063	13.7	Oblong	White
TX12483-6W	TXCH	33.0	29.2	3.8	0.0	0.0	67.0	0.0	1.072	15.4	Oblong	White
AORTX10247-1W/Y	NATCH16	40.5	36.0	4.6	0.0	0.0	59.5	0.0	1.080	16.9	Oblong	White
NDTX102796CbS-2W	TXCH	68.2	45.0	23.2	0.0	0.0	31.8	0.0	1.057	12.8	Oblong	White
AORTX09033-11W	TXCH	19.1	19.1	0.0	0.0	0.0	80.9	0.0	1.078	16.4	Oblong	White
NDTX113029C-2W	TXCH	21.1	20.6	0.5	0.0	0.0	78.9	0.0	1.086	17.8	Oblong	White
WTX10646-2W	TXCH	32.4	31.0	1.5	0.0	0.0	67.6	0.0	1.070	15.0	Oblong	White
NDTX081648CB-1W	TXCH	62.7	45.4	16.5	0.8	0.0	37.3	0.0	1.066	14.2	Oblong	White
TX12483-8W	TXCH	68.5	41.2	25.5	1.7	0.0	31.5	0.0	1.069	14.8	Oblong	White
TX12484-1W ZC	TXCH	48.6	37.6	9.3	1.7	0.0	51.4	0.0	1.073	15.6	Oblong	White
TX03196-1W	TXCH	69.5	38.6	24.5	6.4	0.0	30.5	0.0	1.066	14.3	Oblong	White
NDTX113030C-10W	NATCH16	13.5	13.5	0.0	0.0	0.0	86.5	0.0	1.028	7.5	Oblong	White
TX05249-10W	TXCH	56.7	43.8	12.9	0.0	0.0	43.3	0.0	1.074	15.8	Round	White
TX12484-4W ZC	TXCH	41.4	34.3	7.2	0.0	0.0	58.6	0.0	1.079	16.6	Oblong	White
TX12486-1W	TXCH	60.0	39.0	20.1	0.9	0.0	40.0	0.0	1.057	12.7	Oblong	White
AORTX09033-4W	NATCH16	40.4	35.4	5.0	0.0	0.0	59.6	0.0	1.073	15.5	Oblong	White
NDTX102514ABC-5W	TXCH	11.1	10.7	0.3	0.0	0.0	88.9	0.0	1.074	15.6	Oblong	White
NDTX071109C-1W	TXCH	51.1	39.5	11.6	0.0	0.0	48.9	0.0	1.060	13.2	Oblong	White
NDTX060700C-1W	TXCH	10.1	10.1	0.0	0.0	0.0	89.9	0.0	1.085	17.7	Oblong	White
Waneta	TXCH	61.1	46.3	14.8	0.0	0.0	38.9	0.0	1.070	14.9	Oblong	White
ATTX11476-11W	NATCH16	20.9	20.9	0.0	0.0	0.0	79.1	0.0	1.064	13.9	Oblong	White
NDTX102852CB-3Ru	NATCH16	42.3	26.3	12.6	3.4	0.0	57.7	0.0	1.068	14.6	Long	Russet
Average		44.0	34.4	8.9	0.6	0.0	56.0	0.0	1.076	16.0		
L.S.D. (.05)		10.4	8.8	6.0	3.1	ns	10.3	ns	0.004	0.8		

Springlake  
Table 6b. cont.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 46 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
NDTX059828-2W	TXCH	29.7	29.7	0.0	0.0	0.0	70.3	0.0	1.064	13.9	Oblong	White
TX09429-1P/P	TXCH	25.6	25.6	0.0	0.0	0.0	74.4	0.0	1.075	16.0	Round	Purple
NDTX102852CB-4Ru	NATCH16	57.0	45.6	7.8	3.7	0.0	42.2	0.7	1.063	13.8	Oblong	Russet
AORTX11476-2W	TXCH	25.1	22.2	2.9	0.0	0.0	74.9	0.0	1.070	15.0	Oblong	White
TX05249-11W	TXCH	50.9	34.4	16.6	0.0	0.0	49.1	0.0	1.059	13.0	Oblong	White
TX12474-1P/R	TXCH	9.1	9.1	0.0	0.0	0.0	90.9	0.0	1.071	15.2	Round	Purple
WTX10666-8W	NATCH16	39.1	30.8	4.3	0.0	0.0	60.9	0.0	1.073	15.6	Oblong	White
TX12483-5W	TXCH	62.6	38.8	22.4	1.4	0.0	37.4	0.0	1.070	14.9	Oblong	White
TX12479-16W	TXCH	59.0	45.2	13.8	0.0	0.0	41.0	0.0	1.068	14.6	Round	White
NDTX102702C-1W	TXCH	35.5	35.5	0.0	0.0	0.0	64.5	0.0	1.068	14.6	Round	White
Average		39.4	31.7	6.8	0.5	0.0	60.6	0.1	1.068	14.7		
L.S.D. (.05)		10.4	8.8	6.0	3.1	ns	10.3	ns	0.004	0.8		



Springlake  
Table 6c. Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 46 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
AORTX09037-1W/Y	NATCH16	14.5	2.6	2.4	100	100	2.0	4.7	3.8	4.7	30
AORTX09037-4W	NATCH16	18.0	2.0	2.6	100	100	2.0	4.2	3.9	4.1	20
ATTX07042-3W/Y	TXCH	14.8	2.2	2.4	100	100	1.8	3.9	3.6	4.0	45
NDTX113467CB-1W	TXCH	17.4	1.9	2.8	100	100	2.0	4.3	3.9	4.4	22
NDTX113030C-3W	NATCH16	12.6	2.6	2.0	100	100	1.7	4.1	3.5	4.2	45
TX12484-2W ZC	TXCH	9.8	3.3	2.8	100	100	2.2	4.1	3.7	4.1	30
NDTX113037C-3W	NATCH16	14.2	2.2	2.2	100	100	2.0	4.0	3.9	4.1	25
COTX10079-11W	TXCH	9.1	3.5	1.5	97	97	2.5	3.7	3.3	3.8	42
TX12483-4W	TXCH	8.8	3.6	3.0	100	100	1.7	4.0	5.0	4.0	0
AORTX09037-5W	TXCH	15.4	2.0	2.4	100	100	2.5	3.5	3.5	3.6	33
TX12484-3W ZC	TXCH	11.9	2.5	3.0	100	100	2.0	3.9	3.2	3.9	43
NDTX102640Cb-1W	TXCH	16.1	1.9	3.0	100	100	2.2	3.8	3.2	3.9	52
ATTX11484-3W	TXCH	10.6	2.9	2.5	86	96	1.8	4.0	3.6	4.1	33
AORTX09032-3W	NATCH16	12.0	2.4	1.5	93	96	1.8	3.4	5.0	3.5	0
Atlantic	WR	7.9	3.4	2.2	96	100	2.0	3.7	3.6	3.8	25
TX12479-1W	TXCH	8.8	3.1	1.6	96	96	1.5	3.1	3.8	3.5	22
TX12483-6W	TXCH	11.4	2.3	2.2	100	100	2.0	3.7	3.5	3.7	38
AORTX10247-1W/Y	NATCH16	13.6	1.9	1.8	100	100	2.2	4.0	3.6	4.0	28
NDTX102796CbS-2W	TXCH	9.9	3.2	1.4	74	81	1.5	2.8	4.3	3.0	8
AORTX09033-11W	TXCH	14.8	1.7	2.4	100	100	2.2	3.3	3.7	3.5	30
NDTX113029C-2W	TXCH	12.8	1.9	2.3	100	100	2.0	3.5	2.9	3.7	57
WTX10646-2W	TXCH	11.7	2.1	2.9	97	100	2.3	3.8	4.0	3.8	17
NDTX081648CB-1W	TXCH	6.5	3.9	1.4	96	100	1.5	3.1	3.4	3.4	45
TX12483-8W	TXCH	7.6	3.7	1.4	79	87	2.0	2.6	3.8	3.0	22
TX12484-1W ZC	TXCH	9.6	2.6	2.9	77	91	2.0	3.8	3.0	3.8	45
TX03196-1W	TXCH	7.7	3.5	1.3	71	86	1.7	3.0	3.9	3.5	22
NDTX113030C-10W	NATCH16	16.0	1.4	2.3	100	100	2.5	3.7	3.5	3.8	40
TX05249-10W	TXCH	8.9	3.0	1.3	76	86	1.5	3.4	4.3	3.5	12
TX12484-4W ZC	TXCH	9.4	2.5	2.0	81	93	1.7	3.5	2.3	3.7	58
TX12486-1W	TXCH	9.7	3.2	1.3	47	71	1.3	2.7	3.3	2.7	30
AORTX09033-4W	NATCH16	10.3	2.2	1.7	90	96	2.2	3.5	3.0	3.7	55
NDTX102514ABC-5W	TXCH	13.0	1.6	2.6	100	100	2.5	3.3	3.3	3.5	48
NDTX071109C-1W	TXCH	10.0	2.6	1.7	71	75	1.7	2.1	3.6	2.7	30
NDTX060700C-1W	TXCH	11.0	1.6	2.0	92	96	2.0	2.6	3.3	3.0	40
Waneta	TXCH	7.4	3.0	1.2	68	79	1.5	2.1	3.7	2.6	27
ATTX11476-11W	NATCH16	9.1	1.9	1.5	80	89	2.5	2.8	3.5	3.1	30
NDTX102852CB-3Ru	NATCH16	7.6	2.3	1.9	88	94	2.3	3.0	3.4	3.4	38
Average		12.0	2.6	2.3	96	98	2.0	3.7	3.7	3.8	30
L.S.D. (.05)		2.0	0.5	0.2	13	9	0.3	0.4	0.5	0.3	20

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake  
Table 6c. cont.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 46 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
NDTX059828-2W	TXCH	10.3	2.1	1.7	58	74	1.8	3.3	2.5	3.6	62
TX09429-1P/P	TXCH	9.2	1.7	2.6	100	100	1.8	2.8	3.5	3.1	40
NDTX102852CB-4Ru	NATCH16	7.6	3.1	1.5	57	69	2.5	3.5	3.3	3.7	37
AORTX11476-2W	TXCH	9.1	1.9	2.6	84	88	2.0	3.5	3.8	3.6	25
TX05249-11W	TXCH	5.9	3.1	1.8	60	76	1.5	3.1	4.1	3.3	17
TX12474-1P/R	TXCH	11.6	1.2	1.2	100	100	2.0	2.5	3.0	2.8	50
WTX10666-8W	NATCH16	7.7	2.4	2.0	57	70	2.0	3.8	4.5	3.9	5
TX12483-5W	TXCH	6.8	2.5	1.2	67	72	1.5	1.7	5.0	2.5	2
TX12479-16W	TXCH	8.2	2.6	0.9	30	39	1.5	1.8	4.0	2.8	15
NDTX102702C-1W	TXCH	9.6	1.5	0.6	15	40	1.5	1.3	3.9	2.0	18
Average		8.6	2.2	1.6	63	73	1.8	2.7	3.8	3.1	27
L.S.D. (.05)		2.0	0.5	0.2	13	9	0.3	0.4	0.5	0.3	20

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake  
Table 6d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 46 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
AORTX09037-1W/Y	NATCH16	2.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09037-4W	NATCH16	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX07042-3W/Y	TXCH	1.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113467CB-1W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113030C-3W	NATCH16	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12484-2W ZC	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113037C-3W	NATCH16	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10079-11W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12483-4W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09037-5W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12484-3W ZC	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102640Cb-1W	TXCH	1.0	2.5	2.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX11484-3W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09032-3W	NATCH16	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Atlantic	WR	1.0	2.5	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	6	0	0	6
TX12479-1W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12483-6W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX10247-1W/Y	NATCH16	2.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102796CbS-2W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09033-11W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113029C-2W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
WTX10646-2W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081648CB-1W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12483-8W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12484-1W ZC	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX03196-1W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113030C-10W	NATCH16	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX05249-10W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12484-4W ZC	TXCH	1.0	2.5	1.0	3.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12486-1W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09033-4W	NATCH16	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102514ABC-5W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX071109C-1W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX060700C-1W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Waneta	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX11476-11W	NATCH16	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102852CB-3Ru	NATCH16	1.0	3.5	3.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.1	2.6	1.1	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Springlake  
Table 6d. cont.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 46 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
NDTX059828-2W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09429-1P/P	TXCH	5.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102852CB-4Ru	NATCH16	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11476-2W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX05249-11W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12474-1P/R	TXCH	3.5	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
WTX10666-8W	NATCH16	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12483-5W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12479-16W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102702C-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.7	2.4	1.0	4.0	1.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Springlake Notes and general rating for all reps of 46 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2016.  
Table 6e.

Variety or Selection	Trial	Notes Grading	General Rating Grading
AORTX09037-1W/Y	NATCH16	smooth, light yellow flesh, yield+, , ,	3.6, 3.8, 3.8, 3.6
AORTX09037-4W	NATCH16	nice size and shape, small, , ,	3.7, 3.7, 3.7, 3.7
ATTX07042-3W/Y	TXCH	nice size and shape, light yellow flesh, BOT, yield+, ,	3.8, 3.8, 3.8, 3.8
NDTX113467CB-1W	TXCH	small, , ,	3.3, 3.5, 3.5, 3.4
NDTX113030C-3W	NATCH16	nice size and shape, yield+, , ,	3.6, 3.6, 3.8, 3.7
TX12484-2W ZC	TXCH	yield+, , ,	3.6, 3.5, 3.5, 3.5
NDTX113037C-3W	NATCH16	feathering, small, , ,	3.6, 3.5, 3.6, 3.6
COTX10079-11W	TXCH	large tubers, yield+, nice shape, BOT+, , ,	4, 4, 4, 4
TX12483-4W	TXCH	nice yield and size, , ,	3.7, 3.7, 3.7, 3.7
AORTX09037-5W	TXCH	uniform, nice size and shape, , ,	3.6, 3.7, 3.6, 3.6
TX12484-3W ZC	TXCH	smooth, yield+, nice size, , ,	3.7, 3.7, 3.7, 3.7
NDTX102640Cb-1W	TXCH	too small, heavy set, , ,	3, 3.3, 3.3, 3.2
ATTX11484-3W	TXCH	large tubers, nice shape and size, BOT-, ,	3.8, 3.7, 3.8, 3.8
AORTX09032-3W	NATCH16	small, nice shape, ZC, , ,	3.5, 3.7, 3.6, 3.6
Atlantic	WR	nice size and shape, poor internals, , ,	3.8, 3.8, 3.8, 3.8
TX12479-1W	TXCH	nice shape, , ,	3.5, 3.5, 3.5, 3.5
TX12483-6W	TXCH	buff skin, nice shape, , ,	3.5, 3.5, 3.5, 3.5
AORTX10247-1W/Y	NATCH16	smooth, nice shape and size, nice flesh, ZC+, , ,	3.5, 3.6, 3.7, 3.6
NDTX102796CbS-2W	TXCH	nice size, smooth, , ,	3.5, 3.5, 3.5, 3.5
AORTX09033-11W	TXCH	variable shape, smooth, light set, too small, , ,	3.3, 3.5, 3.3, 3.4
NDTX113029C-2W	TXCH	poor shape, drop++, , ,	2.8, 2.8, 2.5, 2.7
WTX10646-2W	TXCH	smooth, small, uniform, , ,	3.6, 3.7, 3.7, 3.7
NDTX081648CB-1W	TXCH	large tubers, nice size, , ,	3.6, 3.6, 3.7, 3.6
TX12483-8W	TXCH	smooth, nice size, low yield, BOT, , ,	3.8, 3.6, 3.8, 3.7
TX12484-1W ZC	TXCH	large tubers, variable size, , ,	3.4, 3.2, 3.4, 3.2
TX03196-1W	TXCH	nice size and shape, large tubers, keep+, , ,	3.8, 3.7, 3.8, 3.8
NDTX113030C-10W	NATCH16	very small, uniform, some vascular discoloration, , ,	3.3, 3.3, 3.3, 3.3
TX05249-10W	TXCH	nice shape, , ,	3.5, 3.5, 3.5, 3.5
TX12484-4W ZC	TXCH	smooth, nice shape, some deep eyes, , ,	3.5, 3.5, 3.3, 3.4
TX12486-1W	TXCH	uniform, nice shape, , ,	3.6, 3.6, 3.7, 3.6
AORTX09033-4W	NATCH16	small, light set, , ,	3.3, 3.5, 3.5, 3.4
NDTX102514ABC-5W	TXCH	too oblong, poor shape, small, drop, , ,	3, 3, 3, 3
NDTX071109C-1W	TXCH	large tubers, nice shape, ZC, , ,	3.6, 3.6, 3.6, 3.6
NDTX060700C-1W	TXCH	very small, light set, drop+, , ,	3, 3, 3, 3
Waneta	TXCH	nice shape and size, light set, , ,	3.5, 3.6, 3.6, 3.6
ATTX11476-11W	NATCH16	low yield, light set, drop, , ,	2.5, 3, 3, 2.5
NDTX102852CB-3Ru	NATCH16	light set, large tubers, Russet, , ,	3.3, 3.3, 3, 3.2

Springlake  
Table 6e. cont.

Notes and general rating for all reps of 46 entries in the Texas Advanced Chip Selection Trial  
grown near Springlake, Texas-2016.

Variety or Selection	Trial	Notes Grading	General Rating Grading
NDTX059828-2W	TXCH	red eyes, ZC tolerant, , ,	3.5, 3.3, 3.3, 3.4
TX09429-1P/P	TXCH	nice deep purple flesh, , ,	3.8, 3.8, 3.8, 3.8
NDTX102852CB-4Ru	NATCH16	poor shape, drop, , ,	2.5, 2.5, 2.5, 2.5
AORTX11476-2W	TXCH	light set, rough, too small, , ,	3.3, 3, 3.3, 3
TX05249-11W	TXCH	low yield, drop+, , ,	2.5, 3, 3, 2.8
TX12474-1P/R	TXCH	very7 small, red flesh, , ,	3.5, 3.5, 3.5, 3.5
WTX10666-8W	NATCH16	small, smooth, low yield, drop, , ,	3.3, 3, 3.3, 3
TX12483-5W	TXCH	low yield, drop, , ,	2.5, 2.5, 3, 2.7
TX12479-16W	TXCH	low yield, drop+, , ,	3, 3, 3, 3
NDTX102702C-1W	TXCH	drop, very low, yield, , , ,	2, 2, 2, 2

Springlake  
Table 6f. Specific gravity, percent solids, tuber general rating, chip color rating, good chip bad chip ratio, notes, and percentage of Zebra Defect at chipping of 46 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Gravity	% Solids	Chip General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect
AORTX09037-1W/Y	NATCH16	1.077	16.3	0.0	2	13/26	Drop	8%
AORTX09037-4W	NATCH16	1.079	16.6	0.0	1	26/14	k-	0%
ATTX07042-3W/Y	TXCH	1.088	18.2	0.0	2	33/7	NICE	0%
NDTX113467CB-1W	TXCH	1.087	18.1	0.0	1	30/10	K	0%
NDTX113030C-3W	NATCH16	1.083	17.4	0.0	1	24/19	K-	0%
TX12484-2W ZC	TXCH	1.076	16.1	0.0	1	10/13	K	0%
NDTX113037C-3W	NATCH16	1.080	16.8	0.0	1	22/20	K-	14%
COTX10079-11W	TXCH	1.067	14.4	0.0	1	32/7	BOT	5%
TX12483-4W	TXCH	1.079	16.5	0.0	1	12/25	K-	0%
AORTX09037-5W	TXCH	1.080	16.8	0.0	1	30/8	NICE	16%
TX12484-3W ZC	TXCH	1.083	17.3	0.0	1	28/11	K+	0%
NDTX102640Cb-1W	TXCH	1.067	14.4	0.0	2	24/17	K-	0%
ATTX11484-3W	TXCH	1.073	15.6	0.0	3	14/17	DROP	0%
AORTX09032-3W	NATCH16	1.069	14.9	0.0	1	11/29	DROP-	18%
Atlantic	WR	1.093	19.1	0.0	1	14/23	K-	5%
TX12479-1W	TXCH	1.063	13.7	0.0	1	18/20	K-	0%
TX12483-6W	TXCH	1.072	15.4	0.0	1	12/28	K+	5%
AORTX10247-1W/Y	NATCH16	1.080	16.9	0.0	2	27/12	NICE	3%
NDTX102796CbS-2W	TXCH	1.057	12.8	0.0	1	6/37	DROP	0%
AORTX09033-11W	TXCH	1.078	16.4	0.0	1	31/7	nice	3%
NDTX113029C-2W	TXCH	1.086	17.8	0.0	2	18/21	K-	0%
WTX10646-2W	TXCH	1.070	15.0	0.0	1	31/9	K-	0%
NDTX081648CB-1W	TXCH	1.066	14.2	0.0	1	19/27	K-	0%
TX12483-8W	TXCH	1.069	14.8	0.0	1	27/12	K	0%
TX12484-1W ZC	TXCH	1.073	15.6	0.0	1	30/14	K	0%
TX03196-1W	TXCH	1.066	14.3	0.0	1	23/12	NICE	0%
NDTX113030C-10W	NATCH16	1.028	7.5	0.0	1	14/21	K-	3%
TX05249-10W	TXCH	1.074	15.8	0.0	2	10/35	Drop-	0%
TX12484-4W ZC	TXCH	1.079	16.6	0.0	1	19/13	K-	0%
TX12486-1W	TXCH	1.057	12.7	0.0	1	0/39	Drop	0%
AORTX09033-4W	NATCH16	1.073	15.5	0.0	1	26/15	K	2%
NDTX102514ABC-5W	TXCH	1.074	15.6	0.0	1	30/11	K	0%
NDTX071109C-1W	TXCH	1.060	13.2	0.0	1	27/7	NICE	0%
NDTX060700C-1W	TXCH	1.085	17.7	0.0	1	39/2	BOT	0%
Waneta	TXCH	1.070	14.9	0.0	1	26/15	K-	0%
ATTX11476-11W	NATCH16	1.064	13.9	0.0	3	14/12	DROP	0%
NDTX102852CB-3Ru	NATCH16	1.068	14.6	0.0	1	21/15	K	0%

One .05" slice per tuber, at least 10 tubers per rep, three reps, 1 min 25 sec, 365°F corn oil.

<sup>1</sup>1=poor, 5=excellent

<sup>2</sup>1=light, 3+=very dark

<sup>3</sup>BOT=Best Of Trial, Vas=vascular heat necrosis, Dark=high sugars, BSB=blackspot bruise, HH=hollow heart, IBS=internal brownspot, SE=sugar ends, PB= pressure bruise, GH=greenheads, Z=zebra

Springlake  
Table 6f. cont.

Specific gravity, percent solids, tuber general rating, chip color rating, good chip bad chip ratio, notes, percentage of Zebra Defect at chipping, and percentage Zebra Defect at grading of 46 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Gravity	% Solids	Chip General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect
NDTX059828-2W	TXCH	1.064	13.9	0.0	1	20/14	K	0%
TX09429-1P/P	TXCH	1.075	16.0	0.0	3	35/6	K	0%
NDTX102852CB-4Ru	NATCH16	1.063	13.8	0.0	1	11/35	K-	0%
AORTX11476-2W	TXCH	1.070	15.0	0.0	2	18/22	DROP-	5%
TX05249-11W	TXCH	1.059	13.0	0.0	3	0/34	DROP	12%
TX12474-1P/R	TXCH	1.071	15.2	0.0	3	25/13	K	0%
WTX10666-8W	NATCH16	1.073	15.6	0.0	1	14/30	K--	7%
TX12483-5W	TXCH	1.070	14.9	0.0	1	23/12	K+	0%
TX12479-16W	TXCH	1.068	14.6	0.0	1	17/17	K-	0%
NDTX102702C-1W	TXCH	1.068	14.6	0.0	2	9/7	K-	0%

One .05" slice per tuber, at least 10 tubers per rep, three reps, 1 min 25 sec, 365°F corn oil.

<sup>1</sup>1=poor, 5=excellent

<sup>2</sup>1=light, 3+=very dark

<sup>3</sup>BOT=Best Of Trial, Vas=vascular heat necrosis, Dark=high sugars, BSB=blackspot bruise, HH=hollow heart, IBS=internal brownspot, SE=sugar ends, PB= pressure bruise, GH=greenheads, Z=zebra



## Outstanding Texas Advanced Russet Selections, 2016

**Overall Summary- Springlake and Dalhart:** The Texas Advanced Russet Selection Trials had thirty three entries at Springlake and thirty four at Dalhart. Russet Norkotah was the check variety for both locations. Based on both trials, (ATX10675-1Ru, TX13590-9Ru, ATX11952-1Ru, COTX10080-2Ru, Stampede Russet, and TX13512-1Ru) will be re-evaluated in the 2017 season.

### Texas Advanced Russet Trial, Springlake

This russet trial consisted of nine entries, including the check variety Russet Norkotah.

Results were as follows: (Springlake Tables 7a, 7b, 7c, 7d, and 7e)

- TXA549-1RU was the outstanding entry based on general rating and best of trial designation. COTX10141-12Ru and Russet Norkotah, also received high general ratings (Tables 7a and 7e).
- COTX10080-2Ru had the highest total yield, while TXA549-1Ru had the highest marketable yield. COTX10141-11Ru had the highest yield of over 10 oz. tubers (Table 7a).
- COTX10080-2Ru had the highest yield of less than 4 oz. tubers (Table 7a).
- Russet Norkotah had the highest yield of culls/No. 2 tubers (Table 7a).
- COTX10141-11Ru had the highest percentage of marketable yield and yield of over 6 oz. tubers (Table 7b).
- ATX10675-1Ru had the highest percentage of less than 4 oz. tubers. (Table 7b).
- ATX10675-1Ru had the highest specific gravity (Table 7b).
- TXA549-1RU, ATX84378-6Ru, and ATX10675-1Ru were the latest in maturity, while ATX11952-1Ru and COTX10010-1Ru were the earliest in maturity (Table 7c).

#### Comments on entries:

- |                   |               |  |
|-------------------|---------------|--|
| • COTX10080-2Ru   | Oblong Russet | ZC, nice skin, deep eyes, heavy set++, nice shape, small |
| • TXA549-1RU      | Oblong Russet | good yield, blocky, nice skin and shape, BOT             |
| • Russet Norkotah | Long Russet   | second set, nice shape, small, nice skin, ZC             |
| • ATX84378-6Ru    | Oblong Russet | small, blocky, did not size, drop, too round             |
| • ATX10675-1Ru    | Oblong Russet | pointed, very light skin, road map, small, drop++        |

- ATX11952-1Ru Oblong Russet variable size, blocky, small, deep eyes, growth cracks, poor skin
- COTX10010-1Ru Oblong Russet nice skin and shape, small, light set, too small, drop
- Stampede Russet Long Russet poor yield, drop, nice shape, lower yield than RR, nice skin
- COTX10141-11Ru Long Russet larger tubers, rough, light set

Summary:

TXA549-1RU was the outstanding entry based on all factors.

Springlake  
Table 7a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 9 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
COTX10080-2Ru	TXRU	371.3	58.7	51.9	6.9	0.0	0.0	312.6	0.0	3.3	3.4
TXA549-1RU	TXRU	309.3	102.5	61.4	39.2	1.9	0.0	205.0	1.8	3.8	3.7
Russet Norkotah	WR	286.9	71.1	60.4	10.7	0.0	0.0	211.7	4.2	3.7	3.5
ATX84378-6Ru	TXRU	284.6	99.9	67.7	32.2	0.0	0.0	184.1	0.6	2.8	3.2
ATX10675-1Ru	TXRU	280.1	31.7	28.2	3.5	0.0	0.0	248.4	0.0	2.8	2.8
ATX11952-1Ru	TXRU	241.8	75.5	55.6	18.9	0.9	0.0	166.4	0.0	3.3	3.1
COTX10010-1Ru	TXRU	204.1	26.1	24.3	1.8	0.0	0.0	178.0	0.0	3.0	2.5
Stampede Russet	TXRU	204.1	70.2	52.1	17.1	1.0	0.0	131.6	2.4	2.5	3.6
COTX10141-11Ru	TXRU	163.0	96.8	48.8	45.8	2.2	0.0	66.2	0.0	3.5	2.9
COTX10141-12Ru	TXRU	151.1	56.7	46.4	9.1	1.1	0.0	94.4	0.0	3.8	2.6
Average		260.6	70.3	50.0	19.6	0.7	0.0	189.3	1.0	3.2	3.2
L.S.D. (.05)		41.5	29.4	25.0	22.1	ns	ns	42.6	ns	0.1	0.3

<sup>1</sup> 1=very poor to 5= excellent

Springlake  
Table 7b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 9 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
COTX10080-2Ru	TXRU	15.8	14.0	1.8	0.0	0.0	84.2	0.0	1.068	14.7	Oblong	Russet
TXA549-1RU	TXRU	33.1	19.9	12.7	0.6	0.0	66.3	0.6	1.070	15.1	Oblong	Russet
Russet Norkotah	WR	24.8	21.0	3.7	0.0	0.0	73.8	1.5	1.070	14.9	Long	Russet
ATX84378-6Ru	TXRU	35.1	23.8	11.3	0.0	0.0	64.7	0.2	1.063	13.7	Oblong	Russet
ATX10675-1Ru	TXRU	11.3	10.1	1.3	0.0	0.0	88.7	0.0	1.082	17.1	Oblong	Russet
ATX11952-1Ru	TXRU	31.2	23.0	7.8	0.4	0.0	68.8	0.0	1.073	15.6	Oblong	Russet
COTX10010-1Ru	TXRU	12.8	8.6	0.9	0.0	0.0	87.2	0.0	1.071	15.1	Oblong	Russet
Stampede Russet	TXRU	34.4	25.5	8.4	0.5	0.0	64.5	1.2	1.059	13.1	Long	Russet
COTX10141-11Ru	TXRU	59.4	30.0	28.1	1.3	0.0	40.6	0.0	1.072	15.4	Long	Russet
COTX10141-12Ru	TXRU	37.5	30.7	6.1	0.7	0.0	62.5	0.0	1.076	16.1	Long	Russet
Average		28.7	19.5	8.4	0.3	0.0	71.0	0.4	1.070	15.0		
L.S.D. (.05)		11.9	10.7	10.3	ns	ns	12.2	ns	0.005	0.9		

Springlake  
Table 7c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 9 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
COTX10080-2Ru	TXRU	13.2	2.3	2.3	100	100	1.5	3.1	3.9	3.4	26
TXA549-1RU	TXRU	9.4	2.7	2.7	100	100	1.9	3.3	4.3	3.6	15
Russet Norkotah	WR	9.3	2.6	2.5	100	100	1.9	3.3	3.3	3.4	56
ATX84378-6Ru	TXRU	9.2	2.6	1.3	100	100	1.6	2.9	4.5	3.1	20
ATX10675-1Ru	TXRU	11.1	2.1	2.1	100	100	1.9	3.3	4.4	3.5	15
ATX11952-1Ru	TXRU	8.2	2.5	2.4	100	98	2.9	3.3	2.4	3.5	80
COTX10010-1Ru	TXRU	7.0	2.4	1.9	100	100	1.9	2.7	2.0	2.7	89
Stampede Russet	TXRU	7.2	2.6	2.0	90	90	1.6	2.3	3.3	2.9	53
COTX10141-11Ru	TXRU	6.3	3.5	1.1	60	62	1.6	1.5	3.7	2.3	33
COTX10141-12Ru	TXRU	7.8	2.6	1.4	48	61	1.6	1.7	3.8	3.2	51
Average		9.0	2.6	2.0	94	94	1.9	2.8	3.5	3.1	43
L.S.D. (.05)		1.8	0.5	0.3	7	8	0.4	0.5	0.3	0.6	11

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake  
Table 7d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 9 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
COTX10080-2Ru	TXRU	1.0	3.0	3.8	3.4	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXA549-1RU	TXRU	1.0	3.0	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah	WR	1.0	3.8	4.0	3.6	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX84378-6Ru	TXRU	1.0	3.0	3.8	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX10675-1Ru	TXRU	1.0	3.0	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX11952-1Ru	TXRU	1.0	3.0	3.5	3.0	3.5	4.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10010-1Ru	TXRU	1.0	3.0	2.8	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Stampede Russet	TXRU	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10141-11Ru	TXRU	1.0	3.5	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10141-12Ru	TXRU	1.0	3.5	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	3.2	3.4	3.8	3.5	4.9	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
COTX10080-2Ru	TXRU	, , ,	, ZC, nice skin, deep eyes, heavy set++, nice shape, small	3.3, 3.3, 3.3, 3.3	3.5, 3.3, 3.4, 3.3
TXA549-1RU	TXRU	, good yield, ,	, , blocky, nice skin and shape, BOT,	3.8, 3.8, 3.8, 3.8	3.7, 3.7, 3.7, 3.7
Russet Norkotah	WR	second set, , ,	nice shape, small, nice skin, ZC, ,	3.7, 3.7, 3.7, 3.7	3.5, 3.5, 3.5, 3.5
ATX84378-6Ru	TXRU	, , ,	small, blocky, did not size, drop, , too round,	2.8, 2.8, 2.8, 2.8	3, 3.3, 3.3, 3.3
ATX10675-1Ru	TXRU	pointed, drop, , ,	, very light skin, road map, small, drop+, ,	2.8, 2.8, 2.8, 2.8	3, 3, 2.5, 2.5
ATX11952-1Ru	TXRU	, variable size, ,	blocky, , small, deep eyes, growth cracks, poor skin	3.3, 3.3, 3.3, 3.3	3, 3.5, 3, 3
COTX10010-1Ru	TXRU	, , ,	, nice skin and shape, , small, light set, too small, drop	3, 3, 3, 3	2.5, 2.5, 2.5, 2.5
Stampede Russet	TXRU	poor yield, drop, , ,	, nice shape, lower yield than RR, , nice skin	2.5, 2.5, 2.5, 2.5	3.5, 3.8, 3.5, 3.5
COTX10141-11Ru	TXRU	, , ,	, larger tubers, rough, light set	3.5, 3.5, 3.5, 3.5	3.5, 3, 2.5, 2.5
COTX10141-12Ru	TXRU	some pointed, keep, , ,	, , , pointed, poor shape, blocky, drop+	3.8, 3.8, 3.8, 3.8	2.5, 3, 2.5, 2.5

## Outstanding Texas Advanced Red Selections, 2016

**Overall Summary- Springlake and Dalhart:** The Texas Advanced Red Selection Trials had thirteen entries at Springlake and fifteen at Dalhart. Red LaSoda was the check variety for both locations. Based on both trials, (ATX08121-5R, TX12472-4R, BTX2332-1R, COTX07054-2R, ATTX05186-2R, TX11448-2R, and TX13524-2R) will be re-evaluated in the 2017 season.

### Texas Advanced Red Trial, Springlake

This trial consisted of nine entries, including the check variety Red LaSoda.

Results were as follows: (Springlake Tables 8a, 8b, 8c, 8d, and 8e)

- BTX2332-1R was the outstanding entry based on general rating and best of trial notation, while Red LaSoda, ATX08121-5R, NDTX092231C-1R, COTX07054-2R, ATTX98453-6R, and NDTX4784-7R also had a high general rating (Table 8a and 8e).
- Red LaSoda had the highest total yield, while NDTX050070-1R had the highest marketable yield (Table 8a).
- Red LaSoda had the highest yield of less than 4 oz. tubers (Table 8a).
- BTX2332-1R had the highest percentage of marketable yield (Table 8b).
- ATTX05186-2R had the highest percentage of less than 4 oz. tubers (Table 8b).
- COTX07054-2R had the highest specific gravity (Table 8b).
- ATTX05186-2R had the highest average number of tubers per plant (Table 8c).
- Red LaSoda and ATTX05186-2R were the latest maturing entries, while NDTX050070-1R and ATX08121-5R were the earliest maturing entries (Table 8c).

#### Comments on entries:

- Red LaSoda            Oblong Red    yield++, deep eyes, ZC
- NDTX050070-1R    Oblong Red    variable size, zipper eyes, deep eyes, drop, large tubers, some road map, nice skin
- ATX08121-5R        Oblong Red    variable size, drop, large tubers, nice shape and color, light skin
- NDTX092231C-1R   Oblong Red    good color, small, heat sprouts, drop, nice skin color, shape??, small



- COTX07054-2R Oblong Red nice skin, nice size, small
- ATTX05186-2R Oblong Red heavy set, small, white flesh, move to small trial, some spreading, nice shape, many B's, very small
- BTX2332-1R Oblong Red big size, light set, nice size, some buff, BOT
- ATTX98453-6R Oblong Red drop, large tubers, variable size, some rough, some buff
- NDTX4784-7R Oblong Red low yield, light set, nice color, smooth, large tubers, nice skin

Summary:

BTX2332-1R was the outstanding entries based on all factors. Red LaSoda, ATX08121-5R, NDTX092231C-1R, COTX07054-2R, ATTX98453-6R, and NDTX4784-7R also deserve mention.

Springlake  
Table 8a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 9 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
Red LaSoda	WR	409.5	81.0	66.5	14.6	0.0	0.0	328.5	0.0	3.6	3.7
NDTX050070-1R	TXRD	371.8	94.4	60.2	34.3	0.0	0.0	266.2	11.2	3.6	3.6
ATX08121-5R	TXRD	312.2	56.5	49.9	6.6	0.0	0.0	255.7	0.0	2.0	4.0
NDTX092231C-1R	TXRD	295.7	17.9	17.9	0.0	0.0	0.0	271.6	6.2	2.5	3.7
COTX07054-2R	TXRD	272.4	23.1	22.3	0.8	0.0	0.0	249.4	0.0	3.7	3.7
ATX05186-2R	TXRD	265.1	1.9	1.9	0.0	0.0	0.0	261.5	1.6	3.5	3.5
BTX2332-1R	TXRD	265.0	70.2	48.4	19.4	2.3	0.0	194.8	0.0	3.0	4.0
ATX98453-6R	TXRD	202.0	52.6	40.4	12.2	0.0	0.0	148.4	1.0	2.0	3.8
NDTX4784-7R	TXRD	190.6	38.3	30.1	5.9	2.3	0.0	152.3	0.0	3.0	3.8
NDTX050169-1R	TXRD	162.0	0.9	0.0	0.9	0.0	0.0	161.1	0.0	3.5	3.5
Average		287.1	48.4	37.5	10.4	0.5	0.0	236.5	2.2	3.0	3.7
L.S.D. (.05)		36.8	19.1	15.3	8.3	1.7	ns	31.3	5.2	0.1	0.1

<sup>1</sup> 1=very poor to 5= excellent

Springlake  
Table 8b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 9 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Red LaSoda	WR	19.8	16.2	3.6	0.0	0.0	80.2	0.0	1.072	15.4	Oblong	Red
NDTX050070-1R	TXRD	25.4	16.2	9.2	0.0	0.0	71.6	3.0	1.074	15.7	Oblong	Red
ATX08121-5R	TXRD	18.1	16.0	2.1	0.0	0.0	81.9	0.0	1.079	16.5	Oblong	Red
NDTX092231C-1R	TXRD	6.1	6.1	0.0	0.0	0.0	91.8	2.1	1.073	15.5	Oblong	Red
COTX07054-2R	TXRD	8.5	8.2	0.3	0.0	0.0	91.5	0.0	1.083	17.3	Oblong	Red
ATTX05186-2R	TXRD	0.7	0.7	0.0	0.0	0.0	98.7	0.6	1.069	14.8	Oblong	Red
BTX2332-1R	TXRD	26.5	15.5	7.3	0.9	0.0	73.5	0.0	1.065	14.2	Oblong	Red
ATTX98453-6R	TXRD	26.0	20.0	6.0	0.0	0.0	73.5	0.5	1.075	15.8	Oblong	Red
NDTX4784-7R	TXRD	20.1	15.8	3.1	1.2	0.0	79.9	0.0	1.064	14.0	Oblong	Red
NDTX050169-1R	TXRD	0.5	0.0	0.5	0.0	0.0	99.5	0.0	1.052	11.7	Oblong	Red
Average		16.8	12.7	3.5	0.2	0.0	82.5	0.7	1.073	15.5		
L.S.D. (.05)		6.5	5.1	3.2	ns	ns	7.1	1.6	0.003	0.5		

Springlake  
Table 8c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 9 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
Red LaSoda	WR	16.0	2.1	4.4	100	100	2.5	4.1	4.7	4.3	0
NDTX050070-1R	TXRD	12.1	2.5	2.6	95	100	2.5	3.6	3.0	3.7	48
ATX08121-5R	TXRD	11.8	2.2	2.7	100	100	2.3	3.6	2.8	3.7	58
NDTX092231C-1R	TXRD	14.6	1.7	2.5	100	100	2.4	3.4	3.7	3.6	28
COTX07054-2R	TXRD	13.0	1.8	3.2	96	98	2.3	3.4	3.5	3.6	34
ATTX05186-2R	TXRD	18.0	1.2	3.4	100	100	2.5	3.9	4.7	4.0	5
BTX2332-1R	TXRD	8.5	2.6	2.1	100	100	2.0	3.3	3.8	3.6	15
ATTX98453-6R	TXRD	9.6	2.3	1.6	76	78	2.1	2.2	4.3	2.8	4
NDTX4784-7R	TXRD	7.8	2.1	1.7	96	98	1.5	2.3	3.3	2.8	41
NDTX050169-1R	TXRD	16.5	0.8	1.8	100	100	1.6	2.4	4.8	2.6	6
Average		12.4	2.1	2.7	96	97	2.2	3.3	3.8	3.6	26
L.S.D. (.05)		1.8	0.4	0.3	13	10	0.4	0.4	0.5	0.3	15

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake  
Table 8d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 9 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
Red LaSoda	WR	1.0	3.0	1.0	2.0	3.5	5.0	5.0	5.0	5.0	4.0	0	0	0	0
NDTX050070-1R	TXRD	1.0	3.0	1.0	3.5	3.7	5.0	5.0	5.0	5.0	4.0	0	0	0	0
ATX08121-5R	TXRD	1.0	2.5	1.0	3.8	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX092231C-1R	TXRD	1.0	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX07054-2R	TXRD	1.0	2.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05186-2R	TXRD	1.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX2332-1R	TXRD	1.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	4.0	0	0	0	0
ATX98453-6R	TXRD	1.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	4.0	0	0	0	0
NDTX4784-7R	TXRD	1.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050169-1R	TXRD	1.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	2.8	1.0	3.7	3.7	5.0	5.0	5.0	5.0	4.6	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Springlake  
Table 8e.

Notes and general rating for all reps of 9 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
Red LaSoda	WR	, , ,	yield++, deep eyes, ZC, , ,	3.6, 3.6, 3.6, 3.6	3.7, 3.6, 3.7, 3.6
NDTX050070-1R	TXRD	, , , variable size	, zipper eyes, deep eyes, drop, large tubers, some road map, nice skin	3.6, 3.6, 3.6, 3.6	3.6, 3.6, 3.6, 3.7
ATX08121-5R	TXRD	, variable size, drop, ,	large tubers, nice shape and color, light skin,	2, 2, 2, 2	4, 4, 4, 4
NDTX092231C-1R	TXRD	, , , good color, small, heat sprouts, drop	nice skin color, , , shape??. small	2.5, 2.5, 2.5, 2.5	3.7, 3.7, 3.6, 3.6
COTX07054-2R	TXRD	, , ,	, , nice skin, nice size, small	3.7, 3.7, 3.7, 3.7	3.7, 3.7, 3.7, 3.7
ATX05186-2R	TXRD	, , , heavy set, small, white flesh, move to small trial, some spreading	, nice shape, many B's, , very small, move to Small trial	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.5, 3.5
BTX2332-1R	TXRD	, big size, light set, ,	, nice size, some buff, BOT, ,	3, 3, 3, 3	4, 4, 4, 4
ATX98453-6R	TXRD	, , , drop	large tubers, , , variable size, some rough, some buff	2, 2, 2, 2	3.8, 3.8, 3.8, 3.6
NDTX4784-7R	TXRD	, , low yield, lightr set, nice color,	smooth, , large tubers, nice skin,	3, 3, 3, 3	3.8, 3.8, 3.8, 3.8
NDTX050169-1R	TXRD	uniform, small, , ,	move to small potato trial, , , many B's	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.5, 3.5

## Outstanding Texas Advanced Red/Yellow Selections, 2016

**Overall Summary- Springlake and Dalhart.** The Texas Advanced Red Skin Yellow Flesh Selection Trials included four entries at Springlake and nine entries at Dalhart. Sierra Rose was the check variety for both locations. Based on both trials, the following entries (ATTX10265-4R/Y and TX12471-1R/Y) will be tested again in 2017.

### Texas Advanced Red/Yellow Selection Trial, Springlake

This trial consisted of five entries including the check variety Sierra Rose.

Results were as follows: (Springlake Tables 9a, 9b, 9c, 9d, and 9e)

- TX12471-7R/Y was the outstanding entry based on general rating and best of trial designation, while ATTX10265-4R/Y, Sierra Rose, and TX12471-1R/Y also had a high general rating (Table 9a and 9e).
- ATTX961014-1R/Y Chimera had the highest total yield, while Sierra Rose had the highest marketable yield (Table 9a)
- Sierra Rose had the highest yield of over 4-6 oz. tubers, while ATTX961014-1R/Y Chimera had the highest yield of less than 4 oz. tubers (Table 9a).
- Sierra Rose had the highest percentage of marketable yield and 4-6 oz. tubers (Table 9b).
- ATTX961014-1R/Y Chimera had the highest percentage of less than 4 oz. tubers (Table 9b).
- ATTX961014-1R/Y Chimera had the highest specific gravity (Table 9b).
- ATTX961014-1R/Y Chimera had the highest average number of tubers per plant (Table 9c).
- ATTX10265-4R/Y and TX12471-7R/Y were the latest in maturity, while ATTX961014-1R/Y Chimera was the earliest in maturity (Table 9c).
- ATTX10265-4R/Y had the darkest yellow flesh color (Table 9d).

#### Comments on entries:

- ATTX961014-1R/Y Chimera Oblong Red small, purple vascular ring, nice shape, not chimera, FC=2.5
- ATTX10265-4R/Y Oblong Red heavy set, nice flesh, light skin, shape??, small, FC=3.5
- Sierra Rose Oblong Red heat sprouts, light yellow flesh, some silver scurf, smooth, nice shape, FC=2.5

- TX12471-7R/Y                      Round Red    heavy set, variable size, small, keep, nice skin color and flesh, BOT for skin color, FC=3.0
- TX12471-1R/Y                      Oblong Red    variable size, good color, very small, shape??. light flesh, FC=2.5

<sup>1</sup>FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

Sierra Rose and TX12471-7R/Y were the outstanding entries based on all factors.



Springlake  
Table 9a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 5 entries in the Texas Advanced Red/Yellow Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
ATTX961014-1R/Y Chimera	TXR/Y	306.8	16.1	14.0	2.2	0.0	0.0	286.4	4.3	3.3	3.6
ATTX10265-4R/Y	TXR/Y	289.2	17.9	15.9	2.0	0.0	0.0	256.3	15.0	3.7	3.6
Sierra Rose	TXR/Y	259.4	46.4	36.3	10.1	0.0	0.0	201.4	11.5	3.7	3.8
TX12471-7R/Y	TXR/Y	234.7	15.9	14.4	1.5	0.0	0.0	218.8	0.0	3.4	3.8
TX12471-1R/Y	TXR/Y	181.3	14.5	13.8	0.7	0.0	0.0	166.1	0.7	3.7	3.5
Average		254.3	22.2	18.9	3.3	0.0	0.0	225.8	6.3	3.6	3.7
L.S.D. (.05)		23.8	ns	ns	ns	ns	ns	14.8	ns	0.1	0.1

<sup>1</sup> 1=very poor to 5= excellent

Springlake  
Table 9b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 5 entries in the Texas Advanced Red/Yellow Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
ATTX961014-1R/Y Chimera	TXR/Y	5.3	4.6	0.7	0.0	0.0	93.3	1.4	1.080	16.8	Oblong	Red
ATTX10265-4R/Y	TXR/Y	6.2	5.5	0.7	0.0	0.0	88.6	5.2	1.062	13.6	Oblong	Red
Sierra Rose	TXR/Y	17.9	14.0	3.9	0.0	0.0	77.7	4.4	1.074	15.6	Oblong	Red
TX12471-7R/Y	TXR/Y	6.8	6.1	0.6	0.0	0.0	93.2	0.0	1.075	15.9	Round	Red
TX12471-1R/Y	TXR/Y	8.0	7.6	0.4	0.0	0.0	91.6	0.4	1.072	15.4	Oblong	Red
Average		8.8	7.6	1.3	0.0	0.0	88.9	2.3	1.073	15.4		
L.S.D. (.05)		ns	ns	ns	ns	ns	ns	ns	0.003	0.6		

Springlake  
Table 9c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 5 entries in the Texas Advanced Red/Yellow Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
ATTX961014-1R/Y Chimera	TXR/Y	14.9	1.8	3.4	100	100	2.3	3.3	2.9	3.6	53
ATTX10265-4R/Y	TXR/Y	12.4	1.9	2.0	100	100	1.5	3.2	4.3	3.5	8
Sierra Rose	TXR/Y	10.2	2.2	3.2	100	100	1.9	3.5	3.3	3.7	36
TX12471-7R/Y	TXR/Y	10.9	1.8	4.8	100	100	1.8	3.7	4.6	3.8	1
TX12471-1R/Y	TXR/Y	9.4	1.7	3.7	95	97	1.9	2.7	4.1	3.6	16
Average		11.6	1.9	3.4	99	99	1.9	3.3	3.8	3.6	23
L.S.D. (.05)		3.3	ns	0.3	ns	ns	0.5	0.6	0.3	ns	16

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake  
Table 9d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 5 entries in the Texas Advanced Red/Yellow Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
ATTX961014-1R/Y Chimera	TXR/Y	2.5	3.0	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX10265-4R/Y	TXR/Y	3.5	3.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Sierra Rose	TXR/Y	2.5	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12471-7R/Y	TXR/Y	3.0	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12471-1R/Y	TXR/Y	2.5	3.0	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.8	2.8	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Springlake  
Table 9e.

Notes and general rating for all reps of 5 entries in the Texas Advanced Red/Yellow Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
ATTX961014-1R/Y Chimera	TXR/Y	, , , small	, small, purple vascular ring, nice shape, not chimera, purple streaks,	3.3, 3.3, 3.3, 3.3	3.6, 3.8, 3.5, 3.6
ATTX10265-4R/Y	TXR/Y	, yellow flesh 2, ,	, , heavy set, nice flesh, light skin, shape??, small	3.7, 3.7, 3.7, 3.7	3.6, 3.6, 3.6, 3.5
Sierra Rose	TXR/Y	, , heat sprouts, light yellow flesh,	some silver scurf, , , smooth, nice shape, light flesh	3.7, 3.7, 3.7, 3.7	3.8, 3.8, 3.8, 3.8
TX12471-7R/Y	TXR/Y	, heavy set, variable size, small, yellow flesh 3.5, ,	keep, , , nice skin color and flesh, BOT for skin color	3.4, 3.4, 3.4, 3.4	3.8, 3.8, 3.8, 3.6
TX12471-1R/Y	TXR/Y	, , variable size, good color, yellow 2,	very small, shape??, light flesh, ,	3.7, 3.7, 3.7, 3.7	3.5, 3.5, 3.5, 3.5

## Outstanding Texas Advanced White/Yellow Selections, 2016

**Overall Summary- Springlake and Dalhart.** The Texas Advanced White Skin Yellow Flesh Selection Trials included thirteen entries at Springlake and fourteen at Dalhart. Yukon Gold was the check variety for both locations. Based on both trials, (AORTX11913-3Wre/Y, BTX1749-1W/Y, COTX10097-2W/Y, and COTX05249-3WRE/Y) will be tested again in 2017.

### Texas Advanced White/Yellow Trial, Springlake

This trial consisted of five entries, including the check variety Yukon Gold.

Results were as follows: (Springlake Tables 10a, 10b, 10c, 10d, and 10e)

- Yukon Gold and COTX10097-2W/Y were the outstanding entries based on general rating (Tables 10a).
- Yukon Gold had the highest total and marketable yield (Table 10a).
- COTX10097-2W/Y had the highest yield of less than 4 oz. tubers (Table 10a).
- Yukon Gold had the highest percentage of marketable yield. COTX05249-3WRE/Y had the highest percentage of less than 4 oz. tubers (Table 10b).
- COTX05249-3WRE/Y had the highest specific gravity (Table 10b).
- COTX05249-3WRE/Y had the highest average number of tubers per plant (Table 10b).
- All the entries were medium in maturity (Table 10c).
- Yukon Gold had the darkest yellow flesh (Table 10d).

#### Comments on entries:

- |                    |              |   |
|--------------------|--------------|---|
| • Yukon Gold       | Oblong White | smooth, nice shape and flesh, FC=3.5  |
| • BTX1749-1W/Y     | Oblong White | heat sprouts, variable size, road map, poor skin finish, FC=2.0   |
| • COTX10097-2W/Y   | Oblong White | variable size, yield+, nice shape, FC=2.5   |
| • COTX05249-3WRE/Y | Round White  | heavy set, small, move to small trial, mixed flesh, light set, not red eye, drop+++ , light flesh, FC=2.0 |

- COTX07382-2W/Y Oblong White light set and flesh, drop, variable size, lenticels, FC=2.0

<sup>1</sup>FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

Yukon Gold was the outstanding entry based on all factors.

Springlake  
Table 10a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 5 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
Yukon Gold	WR	324.5	184.6	98.1	81.8	4.7	0.0	137.9	2.1	3.5	3.6
BTX1749-1W/Y	TXW/Y	268.8	130.8	71.2	57.7	1.9	0.0	138.0	0.0	3.0	3.4
COTX10097-2W/Y	TXW/Y	264.1	42.5	42.5	0.0	0.0	0.0	221.6	0.0	2.7	3.6
COTX05249-3WRE/Y	TXW/Y	218.8	29.1	29.1	0.0	0.0	0.0	189.8	0.0	3.2	2.5
COTX07382-2W/Y	TXW/Y	154.1	85.2	37.5	42.9	4.8	0.0	68.8	0.0	3.5	3.1
Average		246.1	94.4	55.7	36.5	2.3	0.0	151.2	0.4	3.2	3.2
L.S.D. (.05)		45.8	29.0	21.0	27.7	ns	ns	44.8	ns	0.1	0.3

<sup>1</sup> 1=very poor to 5= excellent



Springlake  
Table 10b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 5 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Yukon Gold	WR	56.9	30.2	25.2	1.4	0.0	42.5	0.6	1.080	16.9	Oblong	White
BTX1749-1W/Y	TXW/Y	48.6	26.5	21.5	0.7	0.0	51.4	0.0	1.087	18.0	Oblong	White
COTX10097-2W/Y	TXW/Y	16.1	16.1	0.0	0.0	0.0	83.9	0.0	1.079	16.6	Oblong	White
COTX05249-3WRE/Y	TXW/Y	13.3	13.3	0.0	0.0	0.0	86.7	0.0	1.090	18.5	Round	White
COTX07382-2W/Y	TXW/Y	55.3	24.3	27.8	3.1	0.0	44.7	0.0	1.083	17.2	Oblong	White
Average		38.0	22.1	14.9	1.1	0.0	61.8	0.1	1.084	17.4		
L.S.D. (.05)		8.9	8.3	9.4	ns	ns	9.4	ns	0.005	0.8		

Springlake  
Table 10c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 5 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
Yukon Gold	WR	9.3	2.9	1.8	100	100	1.9	3.7	1.6	3.9	25
BTX1749-1W/Y	TXW/Y	7.8	2.9	2.6	100	100	2.1	3.6	3.5	3.8	39
COTX10097-2W/Y	TXW/Y	10.2	2.1	2.7	100	100	2.0	3.3	3.6	3.5	35
COTX05249-3WRE/Y	TXW/Y	12.2	1.6	2.1	90	96	2.1	3.2	3.7	3.4	34
COTX07382-2W/Y	TXW/Y	6.6	3.2	1.9	66	66	2.5	2.5	3.5	3.5	35
Average		9.2	2.5	2.2	91	92	2.1	3.3	3.2	3.6	34
L.S.D. (.05)		2.0	0.4	0.3	16	14	0.3	ns	ns	ns	ns

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake  
Table 10d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 5 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
Yukon Gold	WR	3.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX1749-1W/Y	TXW/Y	2.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10097-2W/Y	TXW/Y	2.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX05249-3WRE/Y	TXW/Y	2.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX07382-2W/Y	TXW/Y	2.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.4	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Springlake  
Table 10e.

Notes and general rating for all reps of 5 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
Yukon Gold	WR	, , , yellow flesh 2	smooth, nice shape and flesh, , ,	3.5, 3.5, 3.5, 3.5	3.3, 3.6, 3.8, 3.8
BTX1749-1W/Y	TXW/Y	heat sprouts, yellow flesh 2, , ,	, , variable size, road map, poor skin finish,	3, 3, 3, 3	3.5, 3.6, 3, 3.3
COTX10097-2W/Y	TXW/Y	, , , variable size, yellow flesh 2	yield+, nice shape, , ,	2.7, 2.7, 2.7, 2.7	3.6, 3.6, 3.6, 3.6
COTX05249-3WRE/Y	TXW/Y	, heavy set, small, move to small trial, ,	mixed flesh, , light set, not red eye, drop+++, light flesh	3.2, 3.2, 3.2, 3.2	2.5, 2.5, 2.5, 2.5
COTX07382-2W/Y	TXW/Y	, , yellow flesh, 1.5,	light set and flesh, drop, variable size, lenticels, ,	3.5, 3.5, 3.5, 3.5	3.3, 3, 3, 3

## Outstanding Texas Advanced Small Potato Selections, 2016

**Overall Summary – Springlake and Dalhart.** The Texas Advanced Small Potato Selection Trials consisted of twenty entries at Springlake and forty five entries at Dalhart. The following entries (TX09406S-1P/P, COTX10138S-7W/Y, ATX06264S-4R/Y, ATTX98444S-16R/Y, TX12471-6W/Y, NDTX102816CABS-1W, COTX04050S-1P/P, NDTX1287B-1W, COTX10073S-1W, TX13582-3W, TX13582-5W, COTX04193S-2R/Y, ATTX05175S-1R/Y, and TX13582-4W) will be reevaluated in the 2017 season.

### Texas Advanced Small Potato Selection Trial, Springlake

This trial consisted of twenty three entries.

Results were as follows: (Springlake Tables 11a, 11b, 11c, 11d, and 11e)

- ATTX98444S-16R/Y, COTX04193S-2R/Y, ATTX05175S-1R/Y, NDTX081451CBS-1Y/Y, ATX05202S-3W/Y, ATX06264S-4R/Y, and AORTX11913-5P were the outstanding entries for this trial based on general rating and best of trial notation, while COTX10138S-7W/Y TX12471-6W/Y ATX08117-3P, TX09406S-1P/P, COTX10073S-1W, COTX04050S-1P/P, NDTX102816CABS-1W, COTX10226S-1REW/Y, NDTX071258BS-1R also had high general ratings (Table 11a and 11e).
- NDTX113037C-2W had the highest total yield, while NDTX081451CBS-1Y/Y had the highest marketable yield (Table 11a).
- COTX04050S-1P/P, ATX08117-3P, COTX10226S-1REW/Y, AORTX11468-1W, AORTX09147-1W, COTX10138S-7W/Y, NDTX081451CBS-1Y/Y, ATX05202S-3W/Y had over 99% percentage of marketable tubers. ATTX98444S-16R/Y had the highest percentage of oversized sized tubers (Table 11b).
- COTX10138S-7W/Y, ATX08117-3P, NDTX081451CBS-1Y/Y had the highest average number of tubers per plant (Table 11c).
- ATTX98444S-16R/Y, COTX04193S-2R/Y, NDTX102816CABS-1W ATX08117-3P, ATX05202S-3W/Y, AORTX11913-4P, and AORTX09147-1W were the latest maturing entries, while NDTX071258BS-1R and TX09406S-1P/P were the earliest maturing entries (Table 11c).
- ATTX98444S-16R/Y and COTX04193S-2R/Y had the darkest yellow flesh. TX09406S-1P/P and COTX04050-1P/P had very dark purple flesh (Table 11d).

Comments on entries:

- NDTX113037C-2W Round White feathering, poor shape, drop+++, rough, ZC, FC=1.0
- ATTX98444S-16R/Y Oblong Red small, very heavy set, very nice flesh, BOT++, FC=4.0
- NDTX081451CBS-1Y/Y Oblong White BOT+, nice skin finish, variable size, nice size, smooth, FC=2.5
- AORTX11913-6P/Y Round Purple very heavy set, small, skin color??, has dark purple eyes, drop, nice size, nice flesh, FC=3.0
- COTX10138S-7W/Y Round White purple eyes, drop cull purple eyes, keep, ZC, light flesh, high set, small, FC=2.0
- AORTX11913-5P Round Purple small, keep, nice skin finish, nice uniform size, nice color, very white flesh, high set, BOT, FC=1.0
- ATX06264S-4R/Y Round Red keep, nice shape, light skin, keep, BOT++, FC=3.0
- ATX05186S-1R Round Red pretty red, rough, nice skin, drop, nice size, deep eyes??, some road map, FC=1.0
- COTX04050S-1P/P Round Purple heat sprouts, purple flesh drop, skin color??, nice shape, very dark flesh, keep, some feathering, FC=5.0
- TX09406S-1P/P Round Purple keep, purple flesh, some white in flesh, very dark flesh, skin??, growth cracks, keep, nice size, FC=5.0
- TX12471-6W/Y Round White variable size, drop, nice size and flesh, some large tubers, smooth, BOT, FC=3.0
- NDTX102639CS-1W Oblong White white flesh, drop, some large tubers, drop++, poor skin, feathering, FC=1.0
- COTX10073S-1W Round White white flesh, drop, high set, nice shape, smooth, FC=1.0
- COTX04193S-2R/Y Oblong Red very nice skin and flesh, BOT++, FC=4.0
- NDTX102816CABS-1W Oblong White variable size, small, drop, heat sprouts, keep, high set, some mixed flesh color, nice shape, FC=1.0
- ATTX05175S-1R/Y Round Red nice shape, very small, light skin, nice flesh, BOT+, FC=3.5
- ATX08117-3P Round Purple white flesh, small, nice size, small, high set, very white flesh, FC=1.0
- COTX10226S-1REW/Y Round White red eyes, nice shape and flesh, FC=3.0
- ATX05202S-3W/Y Round White heat sprouts, drop, BOT+, nice shape, very small, high set, light flesh, keep, FC=2.0

- AORTX11913-4P      Round Purple    white flesh, small, keep, nice skin finish, poor shape, too small, nice flesh, drop++, FC=1.0
- NDTX071258BS-1R    Round Red      nice shape and skin color, keep, deep eyes, FC=1.0
- AORTX11468-1W      Round White    variable size, white flesh, low yield, very small, high set, too small, ZC, FC=1.0
- AORTX09147-1W      Oblong White   smooth, white flesh, drop, oblong shape, very small, variable shape, fingerling??. FC=1.0

<sup>1</sup>FC=flesh color rating 1=light to 5= dark

Summary:

ATX98444S-16R/Y, COTX04193S-2R/Y, ATX05175S-1R/Y, NDTX081451CBS-1Y/Y, ATX05202S-3W/Y, ATX06264S-4R/Y, and AORTX11913-5P were the outstanding entries for this trial based on all factors. COTX10138S-7W/Y TX12471-6W/Y ATX08117-3P, TX09406S-1P/P, COTX10073S-1W, COTX04050S-1P/P, NDTX102816CABS-1W, COTX10226S-1REW/Y, NDTX071258BS-1R also deserves mention.

Springlake  
Table 11a.

Total yield, marketable yield, over sized, and general rating of 23 entries in the  
Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	Marketable Yield	Over Sized	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
NDTX113037C-2W	TXSM	302.7	281.1	21.6	3.4	3.0
ATX98444S-16R/Y	TX-CO	295.9	142.7	153.2	3.8	4.5
NDTX081451CBS-1Y/Y	TXSM	295.1	293.0	1.5	4.5	4.3
AORTX11913-6P/Y	TXSM	276.4	271.2	5.3	3.7	3.5
COTX10138S-7W/Y	TXSM	275.0	274.4	0.6	2.0	4.0
AORTX11913-5P	TXSM	258.6	248.9	9.7	3.5	4.0
ATX06264S-4R/Y	TXSM	258.4	249.8	8.6	3.5	4.2
ATX05186S-1R	TXSM	246.3	240.8	5.5	3.6	3.7
COTX04050S-1P/P	TXSM	235.1	235.1	0.0	2.5	3.8
TX09406S-1P/P	TXSM	229.7	222.8	6.9	3.5	3.9
TX12471-6W/Y	TXSM	229.5	207.7	21.8	2.8	4.0
NDTX102639CS-1W	TXSM	205.5	187.7	17.8	2.0	3.1
COTX10073S-1W	TXSM	198.3	186.2	12.1	2.5	3.8
COTX04193S-2R/Y	TXSM	198.0	188.1	9.9	4.0	3.4
NDTX102816CABS-1W	TXSM	190.6	188.3	1.5	2.3	3.8
ATX05175S-1R/Y	TXSM	187.6	180.1	7.5	3.0	4.3
ATX08117-3P	TXSM	181.8	181.8	0.0	3.8	4.0
COTX10226S-1REW/Y	TXSM	177.6	177.6	0.0	3.5	3.8
ATX05202S-3W/Y	TX-CO	171.3	169.7	1.6	1.5	4.3
AORTX11913-4P	TXSM	170.5	159.6	10.9	3.8	2.9
NDTX071258BS-1R	TXSM	118.8	115.2	3.6	0.0	3.8
AORTX11468-1W	TXSM	87.9	87.9	0.0	3.0	3.5
AORTX09147-1W	TXSM	61.4	61.4	0.0	2.7	3.3
Average		211.0	197.9	13.0	3.0	3.8
L.S.D. (.05)		32.7	31.7	6.3	0.4	0.7

<sup>1</sup> 1=very poor to 5= excellent



Springlake  
Table 11b.

Percent by weight of marketable yeild, over sized, specific gravity, tuber type and skin type of 23 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Percent By Weight		Specific Gravity	% Solids	Tuber Type	Skin Type
		Marketable Yield	Over Sized				
NDTX113037C-2W	TXSM	92.9	7.1	1.087	18.0	Round	White
ATTX98444S-16R/Y	TX-CO	48.2	51.8	1.064	14.0	Oblong	Red
NDTX081451CBS-1Y/Y	TXSM	99.3	0.5	1.082	17.1	Oblong	White
AORTX11913-6P/Y	TXSM	98.1	1.9	1.064	14.0	Round	Purple
COTX10138S-7W/Y	TXSM	99.8	0.2	1.075	15.9	Round	White
AORTX11913-5P	TXSM	96.3	3.7	1.070	15.0	Round	Purple
ATX06264S-4R/Y	TXSM	96.7	3.1	1.071	15.1	Round	Red
ATX05186S-1R	TXSM	97.8	2.2	1.068	14.7	Round	Red
COTX04050S-1P/P	TXSM	100.0	0.0	1.080	16.8	Round	Purple
TX09406S-1P/P	TXSM	97.0	3.0	1.070	14.9	Round	Purple
TX12471-6W/Y	TXSM	90.5	9.5	1.066	14.3	Round	White
NDTX102639CS-1W	TXSM	91.3	8.7	1.074	15.8	Oblong	White
COTX10073S-1W	TXSM	93.9	6.1	1.083	17.3	Round	White
COTX04193S-2R/Y	TXSM	95.0	5.0	1.072	15.3	Oblong	Red
NDTX102816CABS-1W	TXSM	98.8	0.8	1.101	20.6	Oblong	White
ATTX05175S-1R/Y	TXSM	96.0	4.0	1.072	15.3	Round	Red
ATX08117-3P	TXSM	100.0	0.0	1.052	11.8	Round	Purple
COTX10226S-1REW/Y	TXSM	100.0	0.0	1.075	15.8	Round	White
ATX05202S-3W/Y	TX-CO	99.1	0.9	1.075	15.9	Round	White
AORTX11913-4P	TXSM	93.6	6.4	1.067	14.5	Round	Purple
NDTX071258BS-1R	TXSM	97.0	3.0	1.071	15.2	Round	Red
AORTX11468-1W	TXSM	100.0	0.0	1.079	16.7	Round	White
AORTX09147-1W	TXSM	100.0	0.0	1.069	14.8	Oblong	White
Average		94.8	5.1	1.073	15.6		
L.S.D. (.05)		2.9	2.9	0.004	0.8		

Springlake  
Table 11c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 23 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
NDTX113037C-2W	TXSM	12.3	2.0	3.5	100	100	2.0	3.7	4.5	3.8	3
ATTX98444S-16R/Y	TX-CO	7.6	3.2	2.5	100	100	2.5	3.7	5.0	3.9	0
NDTX081451CBS-1Y/Y	TXSM	17.4	1.4	3.5	97	97	2.4	4.0	3.4	4.2	48
AORTX11913-6P/Y	TXSM	15.8	1.5	2.5	100	100	1.9	3.7	4.6	3.9	10
COTX10138S-7W/Y	TXSM	20.4	1.1	3.6	100	100	2.1	3.1	3.7	3.2	18
AORTX11913-5P	TXSM	14.0	1.5	2.4	100	100	2.1	3.8	4.3	3.9	5
ATX06264S-4R/Y	TXSM	15.3	1.4	2.7	100	100	1.8	3.4	4.2	3.6	3
ATX05186S-1R	TXSM	14.2	1.4	3.6	100	100	2.3	3.7	4.3	3.8	3
COTX04050S-1P/P	TXSM	13.8	1.3	3.6	110	110	2.0	3.7	3.5	3.9	25
TX09406S-1P/P	TXSM	13.4	1.4	2.6	100	100	1.8	3.0	3.0	3.2	48
TX12471-6W/Y	TXSM	10.6	1.8	3.1	100	100	1.8	3.0	3.5	3.2	33
NDTX102639CS-1W	TXSM	7.6	2.2	3.5	100	100	2.0	3.7	3.9	3.8	23
COTX10073S-1W	TXSM	9.4	1.7	1.7	100	100	2.4	3.0	4.3	3.3	8
COTX04193S-2R/Y	TXSM	12.3	1.4	2.2	100	100	1.8	3.0	5.0	3.3	0
NDTX102816CABS-1W	TXSM	14.3	1.1	4.1	100	100	2.5	4.2	5.0	4.3	0
ATTX05175S-1R/Y	TXSM	12.9	1.3	2.0	94	95	1.5	2.9	4.0	3.3	8
ATX08117-3P	TXSM	17.9	0.8	1.8	97	100	1.5	2.9	5.0	3.1	0
COTX10226S-1REW/Y	TXSM	12.4	1.2	2.4	100	100	1.5	2.7	3.3	3.0	45
ATX05202S-3W/Y	TX-CO	11.0	1.3	2.5	100	100	2.3	3.8	5.0	3.9	0
AORTX11913-4P	TXSM	8.9	1.6	2.5	100	100	2.1	3.3	5.0	3.5	0
NDTX071258BS-1R	TXSM	6.7	1.5	2.9	100	100	2.5	2.5	2.5	2.8	75
AORTX11468-1W	TXSM	6.8	1.1	2.2	96	98	2.4	3.3	4.6	3.5	8
AORTX09147-1W	TXSM	7.2	1.2	2.0	57	57	1.5	2.5	5.0	2.8	0
Average		12.3	1.5	2.8	98	98	2.0	3.3	4.2	3.5	16
L.S.D. (.05)		2.3	0.2	0.5	7	7	0.4	0.4	0.3	0.4	9

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake  
Table 11d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 23 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
NDTX113037C-2W	TXSM	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	2.5	0	0	0	0
ATTX98444S-16R/Y	TX-CO	4.0	2.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081451CBS-1Y/Y	TXSM	2.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11913-6P/Y	TXSM	3.0	1.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10138S-7W/Y	TXSM	2.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11913-5P	TXSM	1.0	1.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX06264S-4R/Y	TXSM	3.0	2.0	1.0	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05186S-1R	TXSM	1.0	1.0	1.0	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04050S-1P/P	TXSM	5.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
TX09406S-1P/P	TXSM	5.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
TX12471-6W/Y	TXSM	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
NDTX102639CS-1W	TXSM	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	3.0	0	0	0	0
COTX10073S-1W	TXSM	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04193S-2R/Y	TXSM	4.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102816CABS-1W	TXSM	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX05175S-1R/Y	TXSM	3.5	1.0	1.0	4.0	3.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX08117-3P	TXSM	1.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10226S-1REW/Y	TXSM	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05202S-3W/Y	TX-CO	2.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11913-4P	TXSM	1.0	1.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX071258BS-1R	TXSM	1.0	2.0	1.0	3.0	3.8	5.0	5.0	5.0	5.0	4.0	0	0	0	0
AORTX11468-1W	TXSM	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09147-1W	TXSM	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.2	1.9	1.0	3.9	2.7	5.0	5.0	5.0	5.0	4.6	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Springlake  
Table 11e.

Notes and general rating for all reps of 23 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
NDTX113037C-2W	TXSM	, , ,	, , feathering, poor shape, drop+++ , rough, zc very nice flesh, BOT, very nice flesh, BOT, very nice flesh, BOT, very nice flesh, BOT	3.4, 3.4, 3.4, 3.4	3, 3, 3, 3
ATTX98444S-16R/Y	TX-CO	small, very heavy set, yellow flesh 3, , ,		3.8, 3.8, 3.8, 3.8	4.5, 4.5, 4.5, 4.5
NDTX081451CBS-1Y/Y	TXSM	, , BOT, nice skin finish, variable size,	, , , nice size, smooth, BOT-	4.5, 4.5, 4.5, 4.5	4.3, 4.3, 4.3, 4.3
AORTX11913-6P/Y	TXSM	very heavy set, small, yellow flesh, 1.4, , ,	, skin color??.has dark purple eyes, drop, , very small, nice size, nice flesh	3.7, 3.7, 3.7, 3.7	3.5, 3.5, 3.5, 3.5
COTX10138S-7W/Y	TXSM	, , , purple eyes, drop	cull purple eyes, keep, ZC, light flesh, , high set, small, some purple eyes,	2, 2, 2, 2	4, 4, 4, 4
AORTX11913-5P	TXSM	, white flesh, small, keep, nice skin finish, ,	, , nice uniform size, nice color, very white flesh, high set, BOT	3.5, 3.5, 3.5, 3.5	4, 4, 4, 4
ATX06264S-4R/Y	TXSM	, , keep, yellow flesh 2,	, nice shape, light skin, keep, , BOT++	3.5, 3.5, 3.5, 3.5	4, 4, 4.5, 4.3
ATX05186S-1R	TXSM	, , pretty red,	rough, nice skin, drop, nice size, deep eyes??. some road map,, ,	3.6, 3.6, 3.6, 3.6	3.6, 3.8, 3.8, 3.4
COTX04050S-1P/P	TXSM	purple flesh, heat sprouts, drop, , ,	, , skin color??.nice shape, very dark flesh, keep, some feathering	2.5, 2.5, 2.5, 2.5	3.8, 3.8, 3.8, 3.8
TX09406S-1P/P	TXSM	, , purple flesh 3, keep,	some white in flesh, very dark flesh, skin??. growth cracks, keep, , nice size	3.5, 3.5, 3.5, 3.5	4, 3.8, 4, 3.8
TX12471-6W/Y	TXSM	variable size, yellow flesh 2, drop, , ,	, , nice size and flesh, some large tubers, smooth, BOT	2.8, 2.8, 2.8, 2.8	4, 4, 4, 4
NDTX102639CS-1W	TXSM	, , white flesh, drop,	some large tubers, drop+,, , , poor skin, feathering	2, 2, 2, 2	3.5, 3, 3, 3
COTX10073S-1W	TXSM	, , , white flesh, drop	, high set, nice shape, smooth,,	2.5, 2.5, 2.5, 2.5	4, 4, 3.8, 3.5
COTX04193S-2R/Y	TXSM	, , , yellow flesh 3	very nice skin and flesh, BOT+,, , ,	4, 4, 4, 4	4.5, 4.5, 0, 4.5
NDTX102816CABS-1W	TXSM	, , , variable size, small, drop	heat sprouts, keep, high set, some mixed flesh color, nice shape, ,	3, 0, 3, 3	3.8, 3.8, 3.8, 3.8
ATTX05175S-1R/Y	TXSM	, , , yellow flesh 3	, , nice shape, very small, light skin, nice flesh, BOT+,	3, 3, 3, 3	4.3, 4.5, 4.5, 4
ATX08117-3P	TXSM	white flesh, small, , ,	, , nice size, small, high set, very white flesh,	3.8, 3.8, 3.8, 3.8	4, 4, 4, 3.8
COTX10226S-1REW/Y	TXSM	, red eyes, yellow flesh 2, ,	, , red eyes, nice shape and flesh, BOT+, nice shape, very small, high set, light flesh,	3.5, 3.5, 3.5, 3.5	3.8, 3.8, 3.8, 3.8
ATX05202S-3W/Y	TX-CO	, , , heat sprouts, drop	keep, ,	1.5, 1.5, 1.5, 1.5	4.5, 4, 4.5, 4
AORTX11913-4P	TXSM	, , white flesh, small, keep, nice skin finish,	, , , poor shape, too small, nice flesh, drop++	3.8, 3.8, 3.8, 3.8	3, 3, 3, 2.5
NDTX071258BS-1R	TXSM	, , ,	, nice shape and skin color, keep, deep eyes,	0, 0, 0, 0	3.8, 4, 3.8, 3.5
AORTX11468-1W	TXSM	variable size, white flesh, , ,	, low yield, , very small, high set, too small, ZC	3, 3, 3, 3	3.5, 3.5, 3.5, 3.5
AORTX09147-1W	TXSM	smooth, white flesh, drop, , ,	oblong shape, very small, variable shape, fing??. , ,	2.7, 2.7, 2.7, 2.7	3.3, 3.3, 3.3, 3.3

## Outstanding Texas Advanced Fingerling Selections, 2016

**Overall Summary – Springlake and Dalhart.** The Texas Advanced Fingerling Selection Trial consisted of six entries in Springlake and eight entries in Dalhart. Banana and Purple Peruvian were the checks. The following entries (COTX08365F-1P/P and PORTX03PG25-2R/R) will be tested again in 2016.

### Texas Advanced Fingerling Selection Trial, Springlake

This trial consisted of six entries, including the check variety Banana.

Results were as follows: (Springlake Tables 12a, 12b, 12c, 12d, and 1e)

- COTX08365F-3P/P, Abby, and PORTX03PG25-2R/R were the outstanding entries for this trial based on general ratings and best of trial designations, while COTX08365F-1P/P also had a high general rating (Table 13a and 13e).
- COTX08365F-1P/P had the highest total yield, while COTX08365F-3P/P had the highest marketable yield, (Table 13a).
- COTX08365F-1P/P had the highest yield of under sized tubers. Banana had the highest yield of culls/No. 2 tubers (Table 13a).
- COTX08365F-3P/P had the highest percentage of marketable yield. COTX08365F-1P/P had the highest percentage of under sized tubers. Banana had the highest percentage of culls/No. 2 tubers (Table 13b).
- COTX08365F-1P/P had the highest average number of tubers per plant (Table 13c).
- Banana, COTX08365F-1P/P, and COTX08044F-1R/R were the latest in maturity, while COTX08365F-3P/P and Abby were the earliest in maturity (Table 13c).
- COTX08365F-3P/P had the darkest purple flesh, while PORTX03PG25-2R/R had the darkest red flesh.

#### Comments on entries:

- COTX08365F-1P/P    Long Purple    nice, purple flesh, very nice flesh, lots of small tubers, not as curved, high set, FC=3.8
- COTX08044F-1R/R    Long Red    nice skin finish and color, not very curved, nice red flesh, small, FC=3.5

- COTX08365F-3P/P Long Purple oversized, purple flesh, some large tubers, feathering, all blue like flesh, smooth, not as curved, BOT, FC=4.0
- Abby Long Red BOT, nice shape, yield++, light flesh, smooth, not curved, FC=2.5
- Banana Long White more culls, very rough, FC=1.0
- PORTX03PG25-2R/R Long Red BOT, nice skin, flesh, and shape, FC=4.0

<sup>1</sup>FC=flesh color rating 1=light to 5= dark

Summary:

COTX08365F-3P/P, Abby, and PORTX03PG25-2R/R were the outstanding entries for this trial based on all factors.

Springlake  
Table 12a.

Total yield, marketable yield, over sized, under sized, culls/No.2 potatoes, and general rating of 6 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	Marketable Yield	Over Sized	Under Sized	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
COTX08365F-1P/P	TXFING	225.9	121.0	1.0	101.5	2.4	4.0	3.5
COTX08044F-1R/R	TXFING	192.4	117.3	0.0	67.0	8.2	3.5	3.7
COTX08365F-3P/P	TXFING	176.5	138.8	4.4	27.1	6.2	3.0	3.8
Abby	Real	172.6	129.2	0.0	42.2	1.1	4.0	4.0
Banana	TXFING	171.2	87.3	0.0	52.3	31.6	3.0	3.3
PORTX03PG25-2R/R	TX-CO	156.6	103.9	0.0	52.7	0.0	4.5	3.8
Average		182.5	116.2	0.9	57.1	8.3	3.7	3.7
L.S.D. (.05)		54.2	34.7	ns	28.6	11.9	0.1	0.2

<sup>1</sup> 1=very poor to 5= excellent

Springlake  
Table 12b.

Percent by weight of marketable yield, over sized, under sized, culls/No.2 potatoes, tuber type, and skin type of 6 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Percent By Weight				Tuber Type	Skin Type
		Marketable Yield	Over 18 oz.	Under 4 oz.	Culls/ No. 2		
COTX08365F-1P/P	TXFING	53.6	0.4	44.9	1.1	Long	Purple
COTX08044F-1R/R	TXFING	61.0	0.0	34.8	4.2	Long	Red
COTX08365F-3P/P	TXFING	78.6	2.5	15.4	3.5	Long	Purple
Abby	Real	74.9	0.0	24.5	0.7	Long	Red
Banana	TXFING	51.0	0.0	30.6	18.5	Long	White
PORTX03PG25-2R/R	TX-CO	66.4	0.0	33.6	0.0	Long	Red
Average		64.2	0.5	30.6	4.7		
L.S.D. (.05)		13.4	ns	12.6	4.2		



Springlake  
Table 12c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 6 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
COTX08365F-1P/P	TXFING	22.9	0.9	2.2	92	93	1.8	2.7	5.0	2.9	0
COTX08044F-1R/R	TXFING	14.8	1.1	2.9	100	100	1.5	2.1	5.0	2.5	0
COTX08365F-3P/P	TXFING	7.8	1.9	2.3	100	100	1.9	2.4	3.5	2.6	29
Abby	Real	11.8	1.2	2.8	100	100	1.6	3.3	3.5	3.5	30
Banana	TXFING	14.0	1.0	2.3	100	100	2.5	2.9	5.0	3.2	0
PORTX03PG25-2R/R	TX-CO	15.4	0.9	1.4	89	91	1.5	2.0	4.3	2.5	5
Average		14.4	1.2	2.3	97	97	1.8	2.6	4.4	2.9	11
L.S.D. (.05)		3.9	0.2	0.2	ns	ns	0.3	0.6	0.3	0.6	13

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake  
Table 12d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 6 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
COTX08365F-1P/P	TXFING	3.8	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08044F-1R/R	TXFING	3.5	4.0	1.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08365F-3P/P	TXFING	4.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
Abby	Real	2.5	4.0	1.0	5.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Banana	TXFING	1.0	4.0	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
PORTX03PG25-2R/R	TX-CO	4.0	4.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.1	4.0	1.0	4.8	3.8	5.0	5.0	5.0	5.0	4.8	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Springlake  
Table 12e.

Notes and general rating for all reps of 6 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
COTX08365F-1P/P	TXFING	, , , nice, purple flesh 2	very nice flesh, very small, lots of small tubers, not as curved, nice flesh, too small, high set,	4, 4, 4, 4	3.6, 3.6, 3.6, 3.3
COTX08044F-1R/R	TXFING	, , , nice skin finish	nice skin color, not very curved, nice red flesh, small, , , some large tubers, feathering, all blue like flesh,	3.5, 3.5, 3.5, 3.5	3.5, 3.8, 3.8, 3.8
COTX08365F-3P/P	TXFING	, , , oversized, purple flesh 2	smooth, not as curved, BOT,	3, 3, 3, 3	3.8, 3.8, 3.8, 3.8
Abby	Real	, , , BOT, yellow flesh 1.5	nice shape, yield++, light flesh, smooth, not curved, ,	4, 4, 4, 4	4, 4, 4, 4
Banana	TXFING	, , ,	, more culls, very rough, ,	3, 3, 3, 3	3.7, 3.3, 3.3, 3
PORTX03PG25-2R/R	TX-CO	, nice, ,	BOT, nice skin, flesh, and shape, ,	4.5, 4.5, 4.5, 4.5	3.8, 3.8, 3.8, 3.8

## Outstanding Texas Advanced Purple Skin Selections, 2016

**Overall Summary – Springlake and Dalhart.** The Texas Advanced Purple Skin Selection Trial consisted of five entries in Springlake and five entries in Dalhart. The following entries (COTX10138-19P/Y, ATTX98493-2P/P, NDTX091886-3P/P, and ATX08121-3P/Y) will be tested again in 2017.

### Texas Advanced Purple Skin Selection Trial, Springlake

This trial consisted of five entries.

Results from the trial were as follows: (Springlake Tables 13a, 13b, 13c, 13d, and 13e)

- COTX10138-19P/Y, ATX08121-3P/Y, CIT #3, and ATTX98493-2P/P received the high general ratings (Table 13a).
- COTX10138-19P/Y had the highest total yield, while CIT #3 had the highest marketable yield (Table 13a).
- COTX10138-19P/Y had the highest yield of under 4 oz. tubers, while CIT #3 had the highest yield of culls/No. 2 tubers (Table 13a)
- CIT #3 had highest percentage of marketable yield, while ATX08121-3P/Y had the highest percentage of less than 4 oz. tubers. CIT #3 had the highest percentage of culls/No. 2 tubers (Table 13b).
- COTX10138-19P/Y and ATX08121-3P/Y had the highest average number of tubers per plant (Table 13c).
- All the entries were medium in maturity (Table 13c).
- COTX10138-19P/Y had the darkest yellow flesh. NDTX091886-3P/P had the darkest purple flesh color (Table 13d).

#### Comments on entries:

- COTX10138-19P/Y Round Purple yellow flesh, keep, nice shape, poor flesh, FC=4.0
- ATX08121-3P/Y Round Purple yellow flesh keep, uniform, smooth, FC=3.5
- CIT #3 Oblong Red interior light red flesh, some road map, some rough, smooth skin, nice flesh, FC=3.7

- ATTX98493-2P/P Round Purple light purple flesh, nice shape, smooth skin, all blue like flesh, FC=4.0
- NDTX091886-3P/P Oblong Purple nice shape, purple flesh, light set, very dark flesh, low yield, smooth, FC=4.5

<sup>1</sup>FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

COTX10138-19P/Y, ATX08121-3P/Y, and ATTX98493-2P/P were the outstanding entries based on all factors.

Springlake  
Table 13a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 5 entries in the Texas Advanced Purple Skin Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
COTX10138-19P/Y	TXP/Y	317.0	47.0	44.8	2.2	0.0	0.0	270.0	0.0	4.0	3.4
ATX08121-3P/Y	TXP/Y	267.9	6.5	6.5	0.0	0.0	0.0	261.3	0.0	4.0	3.7
CIT #3	CAN	265.2	47.7	40.8	6.9	0.0	0.0	175.3	42.3	3.7	3.6
ATTX98493-2P/P	TXP/P	228.9	6.1	5.4	0.7	0.0	0.0	220.2	2.7	2.7	3.7
NDTX091886-3P/P	TXP/P	133.4	9.7	9.7	0.0	0.0	0.0	123.7	0.0	3.5	3.0
Average		242.5	23.4	21.4	2.0	0.0	0.0	210.1	9.0	3.6	3.5
L.S.D. (.05)		22.9	11.8	14.9	ns	ns	ns	24.7	9.2	0.1	0.2

<sup>1</sup> 1=very poor to 5= excellent

Springlake  
Table 13b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 5 entries in the Texas Advanced Purple Skin Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
COTX10138-19P/Y	TXP/Y	14.8	14.1	0.7	0.0	0.0	85.2	0.0	1.067	14.4	Round	Purple
ATX08121-3P/Y	TXP/Y	2.4	2.4	0.0	0.0	0.0	97.6	0.0	1.078	16.4	Round	Purple
CIT #3	CAN	18.0	15.4	2.6	0.0	0.0	66.1	15.9	1.068	14.7	Oblong	Red
ATTX98493-2P/P	TXP/P	2.7	2.3	0.3	0.0	0.0	96.2	1.2	1.082	17.1	Round	Purple
NDTX091886-3P/P	TXP/P	7.3	7.3	0.0	0.0	0.0	92.7	0.0	1.090	18.5	Oblong	Purple
Average		9.0	8.3	0.7	0.0	0.0	87.5	3.4	1.077	16.2		
L.S.D. (.05)		3.8	4.8	ns	ns	ns	4.9	3.7	ns	ns		

Springlake  
Table 13c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 5 entries in the Texas Advanced Purple Skin Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
COTX10138-19P/Y	TXP/Y	15.1	1.8	2.5	100	100	1.6	3.7	3.4	3.8	29
ATX08121-3P/Y	TXP/Y	17.3	1.3	4.5	100	100	2.3	3.8	3.2	3.9	45
CIT #3	CAN	8.4	2.6	2.1	100	100	1.5	3.5	3.3	3.7	38
ATTX98493-2P/P	TXP/P	14.5	1.3	2.8	100	100	2.1	3.5	3.9	3.7	18
NDTX091886-3P/P	TXP/P	6.7	1.7	2.0	100	100	1.5	3.5	3.6	3.7	30
Average		12.4	1.7	2.8	100	100	1.8	3.6	3.5	3.7	32
L.S.D. (.05)		1.7	0.2	0.2	ns	ns	0.3	ns	ns	ns	ns

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large



Springlake  
Table 13d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 5 entries in the Texas Advanced Purple Skin Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
COTX10138-19P/Y	TXP/Y	4.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	8	0	0	10
ATX08121-3P/Y	TXP/Y	3.5	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	5
CIT #3	CAN	3.7	2.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98493-2P/P	TXP/P	4.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX091886-3P/P	TXP/P	4.5	2.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.9	2.2	1.0	4.0	4.7	5.0	5.0	5.0	5.0	5.0	2	0	0	3

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Springlake  
Table 13e.

Notes and general rating for all reps of 5 entries in the Texas Advanced Purple Skin Selection Trial grown near Springlake, Texas-2016.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
COTX10138-19P/Y	TXP/Y	yellow flesh, 4.5, keep, , ,	, , , nice shape, poor flesh	4, 4, 4, 4	3.3, 3.3, 3.6, 3.3
ATX08121-3P/Y	TXP/Y	, , , yellow flesh 3, keep	uniform, smooth, , ,	4, 4, 4, 4	3.8, 3.6, 3.6, 3.8
CIT #3	CAN	interior light red flesh, , ,	, some road map, some rough, smooth skin, nice flesh,	3.7, 3.7, 3.7, 3.7	3.6, 3.6, 3.8, 3.3
ATTX98493-2P/P	TXP/P	, , , light purple flesh 2	nice shape, smooth skin, all blue like flesh, ,	2.7, 2.7, 2.7, 2.7	3.6, 3.6, 3.6, 3.8
NDTX091886-3P/P	TXP/P	, , , purple flesh 3	nice shape, light set, very dark flesh, low yield, smooth,	3.5, 3.5, 3.5, 3.5	3, 3, 3, 3

## 2016 Dalhart Trials

### Summary of growing conditions:

These trials were planted 10 miles southwest of Dalhart in a CSS Farms production field on May 3 to 6 and harvested on September 12, 14, 19, 22, October 3, 5, and 10. Standard cultural practices for the area were used (Table 3). Precipitation was significantly higher than normal during the growing season (Figure 4).

### Trials conducted:

- Chip Potato Breeders Trial (not reported)
- Western and Southwestern Regional Chip
- Western and Southwestern Regional Russet
- Western and Southwestern Regional Red
- Western and Southwestern Regional Red/Yellow
- Western and Southwestern Regional White/Yellow
- Texas Advanced Chip Selection
- 2015 Chip Selection
- Texas Advanced Russet Selection
- 2015 Russet Selection
- Texas Advanced Red Selection
- 2015 Red Selection
- Texas Advanced Red/Yellow Selection
- 2015 Red /Yellow Selection
- Texas Advanced White/Yellow Selection
- 2015 White/Yellow Selection
- Texas Advanced Small Potato Selection
- 2015 Small Potato Selection
- Texas Advanced Fingerling Selection
- 2015 Fingerling Potato Selection
- Texas Advanced Purple Skin Selection
- 2015 Purple Skin Selection
- Commercial Specialty (not reported)

Table 3. Environmental and cultural inputs for the 2016 Dalhart Trials.			
Location:			
Dalhart, Texas			
Soil Type			
Dallum Fine Sand Loam			
Seed Source			
New York, Colorado, Oregon, Texas, and Idaho			
Date:			
		DAP	
Planted			
		May 4, 2016	
Vines Killed (Red and Red Yellow Flesh)			
		August 13, 2016	
		99	
Vines Killed (Chip and White Yellow Flesh)			
		August 13, 2016	
		99	
Vines Killed (Russet)			
		September 10, 2016	
		126	
Harvested (Nat Chip Trial, Chip)			
		September 12, 2016	
		128	
Harvested (Red and Red/White Yellow Flesh)			
		October 3, 2016	
		149	
Harvested (Small )			
		September 22, 2016	
		138	
Harvested (Russet)			
		October 10, 2016	
		156	
Plot Information:			
Size of Plots		25' 6"	
Spacing Between Hills		10.2"	
Spacing Between Rows		28"	
Hills Per Plot		30	
Number of Rows Per Plot		2	
Number of Reps		4	
Method of Harvest:			
Four-row drag digger, with hand pick up			
Fertilizer:			
Application:			
263-218-227 # per acre			
Irrigation:			
Center Pivot			
Seed Treatment			
Cruiser Maxx			
Insecticide:			
Beleaf, Fulfill, Movento, Reaper, Torac, Grandevo, Sivanto 200 SL			
Herbicides Applied:			
Select Max, Chateau, Brawl, Acumen, Tricor, Marix SG, Reglone			
Fungicide Applied:			
Quadris, Penncozeb, Bravo, Revus Top, Scala SC, Echo, Curzate 60DF, Gavel 75DF, Orondis Opti A, Platinum Copper, Ranman			
Environmental Factors:			
Precipitation was higher than normal during the growing season.			

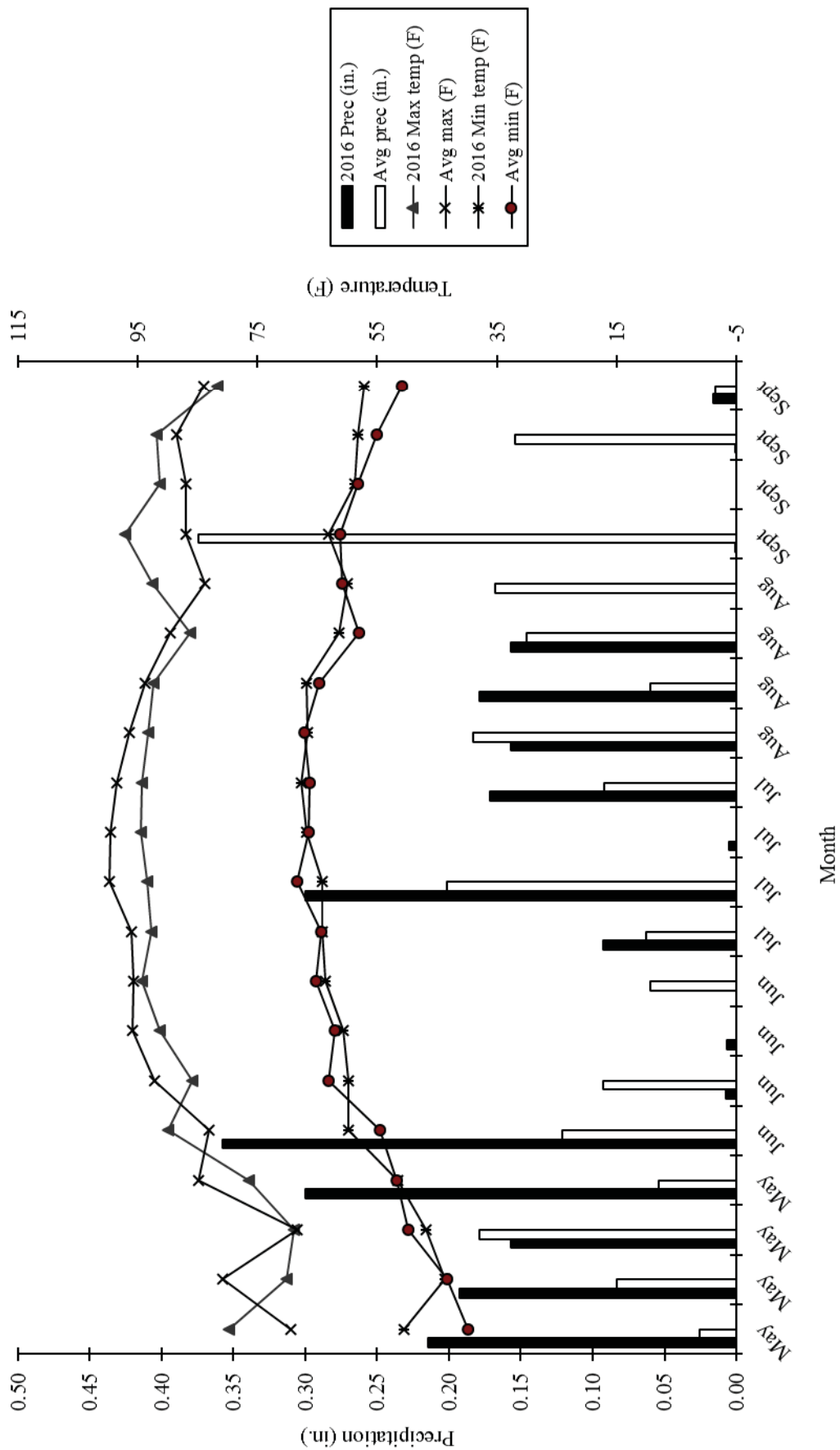


Figure 4. Weekly minimum/maximum temperatures and precipitation for the 2016-growing season near Dalhart, Texas compared to the average minimum/maximum temperatures and precipitation (1949-2016).

## Western and Southwestern Regional Chip Trial, Dalhart

This trial consisted of thirty two entries, including the check varieties Atlantic and Snowden.

Results were as follows: (Dalhart Tables 1a, 1b, 1c, 1d, 1e, and 1f)

- CO02321-4W, CO03243-3W, NDTX081648CB-13W, and NDTX091908AB-02W were the outstanding entries based on general rating and best of trial designation for tuber appearance. MSW485-2, AF4648-2, B2727-2, NC0349-3, CO07070-13W, W5955-1, Olympus, and Lamoka had high general rating for tuber appearance. NY152, OR9253-1, MSR127-2, NY153, and AC05153-1W had over 90 percent good chips (Table 1a, 1e, and 1f).
- NY152 had the highest total yield, while NDTX071109C-01W had the highest marketable yield (Table 1a).
- W5955-1 had the highest yield of over 18 oz. tubers, while MSW485-2 had the highest yield of less than 4 oz. tubers (Table 1a).
- NDTX071109C-01W had the highest percentage of marketable yield (Table 1b).
- MSM246-B had the highest percentage of less than 4 oz. tubers (Table 1b).
- B2727-2, CO02321-4W, and CO07070-10W had the highest specific gravity (Table 1b).
- NY152 and MSW485-2 had the highest average number of tubers per plant (Table 1c).
- MSQ086-3, TX09396-1W, OR9253-1, NDTX081648CB-13W, W5955-1, and Olympus were the latest in maturity, while NDTX071109C-01W and MSY301-2 were the earliest in maturity (Table 1c).
- Atlantic had the highest percent hollow heart and internal brownspot (Table 1d).

### Comments on entries:

- |              |              |  |
|--------------|--------------|--|
| • NY152      | Round Buff   | nice size, buff skin, CR=1, Chip Notes: nice                       |
| • Atlantic   | Oblong White | large tubers, poor internals, CR=1, Chip Notes:                    |
| • MSQ086-3   | Round White  | heavy set, yield+, CR=1, Chip Notes: keep-                         |
| • MSW485-2   | Round White  | small, heavy set++, CR=1, Chip Notes:                              |
| • TX09396-1W | Oblong White | some rough, nice size and shape, CR=1, Chip Notes:<br>nice, 1 Mech |
| • MSW358-3   | Oblong White | yield+, Russet to buff skin, CR=2, Chip Notes: keep-               |

- OR9253-1                      Round White                      some rough, feathering, CR=1, Chip Notes:
- AOR09034-3                      Oblong White                      some rough, CR=1, Chip Notes: keep-; 1 sugar
- NDTX071109C-01W                      Oblong White                      large tubers, yield+, deep nose, rough, CR=1, Chip Notes: K
  
- AF4648-2                      Round White                      smooth, nice skin, CR=1, Chip Notes:
- MSR127-2                      Round White                      feathering, smooth, CR=1, Chip Notes: nice
- CO03243-3W                      Round White                      nice size, BOT-, CR=1, Chip Notes: nice
- B2727-2                      Oblong White                      some rough, yield+, nice shape, CR=1, Chip Notes: nice
- NC0349-3                      Round White                      buff nice shape, CR=1, Chip Notes: nice
- OR09256-2                      Round White                      buff, nice size, CR=1, Chip Notes: keep-
- MSY301-2                      Oblong White                      some rough, CR=1, Chip Notes: 1GH
- CO02321-4W                      Round White                      smooth, BOT-, CR=1, Chip Notes: K
- NDTX091908AB-02W                      Round White                      smooth, nice shape, BOT+, CR=1, Chip Notes: , Chip Notes: K
  
- Snowden                      Round White                      nice size, some rough, CR=1, Chip Notes:
- CO07070-13W                      Round White                      smooth, heavy set, CR=1, Chip Notes:
- NDTX081648CB-13W                      Round White                      yield, nice shape and size, smooth, BOT-, CR=2, Chip Notes: Drop
  
- CO07070-10W                      Oblong White                      some rough, CR=1, Chip Notes: K; 1 GH
- AC01144-1W                      Round White                      smooth, CR=1, Chip Notes:
- NY153                      Oblong White                      variable size, CR=1, Chip Notes: 1BC, nice
- W5955-1                      Oblong White                      smooth, CR=1, Chip Notes: K
- NDA081453CAB-2C                      Round White                      smooth, CR=1, Chip Notes: K
- Olympus                      Round White                      nice size, CR=1, Chip Notes: K
- MSW509-5                      Round White                      buff, small, deep eyes, CR=1, Chip Notes: Drop
- AC05153-1W                      Round White                      some rough, CR=1, Chip Notes:
- Lamoka                      Oblong White                      nice size, uniform, CR=1, Chip Notes: keep-
- W2978-3                      Oblong White                      smooth, small, CR=1, Chip Notes: 3 sugar end
- MSM246-B                      Oblong White                      buff, small, CR=1, Chip Notes: keep-

<sup>1</sup>CR=chip color rating 1=light to 3= dark

Summary:

NY152, OR9253-1, and MSR127-2 were the outstanding entries based on all factors.



Dalhart  
Table 1a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 32 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
NY152	Hig	659.3	468.4	273.1	183.6	11.7	0.0	190.9	0.0	3.4
Atlantic	WR	613.9	495.1	201.9	206.6	86.6	9.5	109.3	0.0	3.5
MSQ086-3	Hig	607.5	433.2	304.7	128.5	0.0	0.0	174.2	0.0	3.6
MSW485-2	Hig	600.1	402.5	330.2	72.3	0.0	0.0	197.7	0.0	3.8
TX09396-1W	WR	598.9	470.2	185.8	196.4	88.0	19.6	109.1	0.0	3.6
MSW358-3	Hig	597.4	478.6	266.5	166.4	45.8	0.0	118.8	0.0	3.4
OR9253-1	WR	589.7	439.1	261.9	137.8	39.4	0.0	150.6	0.0	3.0
AOR09034-3	WR	587.5	449.1	268.1	137.8	43.2	0.0	138.4	0.0	3.4
NDTX071109C-01W	WR	570.7	506.8	134.7	270.5	101.6	9.3	54.5	0.0	3.6
AF4648-2	Hig	566.5	452.8	181.7	200.6	70.5	6.0	107.6	0.0	3.8
MSR127-2	Hig	564.3	436.1	170.6	204.3	61.3	2.2	125.9	0.0	3.5
CO03243-3W	Hig	563.2	436.5	237.9	159.4	39.2	0.0	126.7	0.0	3.8
B2727-2	Hig	561.5	426.1	189.1	168.9	68.1	0.0	135.4	0.0	3.7
NC0349-3	Hig	560.8	453.5	199.5	181.0	73.0	2.7	104.5	0.0	3.7
OR09256-2	WR	556.6	391.3	254.2	96.6	40.4	0.0	165.3	0.0	3.6
MSY301-2	Hig	547.8	425.5	194.9	168.9	61.7	0.0	122.3	0.0	3.3
CO02321-4W	Hig	541.8	407.2	237.0	130.3	39.9	0.0	134.5	0.0	4.0
NDTX091908AB-02W	WR	537.7	392.4	197.7	153.7	41.0	0.0	145.3	0.0	4.5
Snowden	WR	535.7	391.7	220.2	137.1	34.4	0.0	144.0	0.0	3.4
CO07070-13W	WR	535.3	390.9	253.1	125.4	12.4	0.0	144.4	0.0	3.8
NDTX081648CB-13W	WR	530.6	355.1	221.6	118.1	15.4	0.0	175.5	0.0	3.7
CO07070-10W	WR	524.4	350.1	216.2	127.6	6.4	0.0	174.2	0.0	3.5
AC01144-1W	SW	522.7	393.3	226.0	132.7	34.6	0.0	129.4	0.0	3.6
NY153	Hig	518.5	386.9	245.6	129.6	11.7	0.0	131.6	0.0	3.4
W5955-1	Hig	513.2	413.3	114.2	181.4	117.7	20.7	79.2	0.0	3.7
NDA081453CAB-2C	WR	511.6	412.2	184.3	164.0	63.9	0.0	99.4	0.0	3.6
Olympus	Real	476.0	365.3	239.6	96.6	29.1	0.0	110.7	0.0	3.8
MSW509-5	Hig	461.6	307.3	197.3	86.9	23.1	0.0	154.3	0.0	3.6
AC05153-1W	WR	453.4	341.3	193.8	128.3	19.2	0.0	112.0	0.0	3.5
Lamoka	Hig	411.1	334.9	162.5	112.6	59.8	0.0	76.1	0.0	3.8
W2978-3	Real	402.7	274.7	162.3	88.0	24.3	0.0	127.9	0.0	3.6
MSM246-B	Hig	334.9	215.2	140.4	71.9	2.9	0.0	119.7	0.0	3.4
Average		564.2	425.8	223.5	156.6	45.8	2.8	135.6	0.0	3.6
L.S.D. (.05)		64.2	61.0	53.0	50.9	30.3	9.5	36.6	ns	0.1

<sup>1</sup> 1=very poor to 5= excellent

Dalhart  
Table 1b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 32 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
NY152	Hig	71.0	41.4	27.8	1.8	0.0	29.0	0.0	1.069	14.7	Round	Buff
Atlantic	WR	80.6	32.9	33.7	14.1	1.6	17.8	0.0	1.075	15.8	Oblong	Buff
MSQ086-3	Hig	71.3	50.2	21.2	0.0	0.0	28.7	0.0	1.061	13.4	Round	Buff
MSW485-2	Hig	67.1	55.0	12.0	0.0	0.0	32.9	0.0	1.073	15.6	Round	White
TX09396-1W	WR	78.5	31.0	32.8	14.7	3.3	18.2	0.0	1.076	16.1	Oblong	White
MSW358-3	Hig	80.1	44.6	27.8	7.7	0.0	19.9	0.0	1.067	14.5	Oblong	Buff
OR9253-1	WR	74.5	43.0	23.4	6.7	0.0	25.5	0.0	1.078	16.5	Round	White
AOR09034-3	WR	76.4	45.6	23.5	7.4	0.0	23.6	0.0	1.075	15.8	Oblong	White
NDTX071109C-01W	WR	88.8	23.6	47.4	17.8	1.6	9.6	0.0	1.054	12.2	Oblong	White
AF4648-2	Hig	79.9	32.1	35.4	12.4	1.1	19.0	0.0	1.076	16.1	Round	White
MSR127-2	Hig	77.3	30.2	36.2	10.9	0.4	22.3	0.0	1.071	15.2	Round	White
CO03243-3W	Hig	77.5	42.2	28.3	7.0	0.0	22.5	0.0	1.071	15.1	Round	White
B2727-2	Hig	75.9	33.7	30.1	12.1	0.0	24.1	0.0	1.080	16.8	Oblong	White
NC0349-3	Hig	80.9	35.6	32.3	13.0	0.5	18.6	0.0	1.071	15.2	Round	Buff
OR09256-2	WR	70.3	45.7	17.4	7.3	0.4	29.7	0.0	1.079	16.6	Round	Buff
MSY301-2	Hig	77.7	35.6	30.8	11.3	0.0	22.3	0.0	1.066	14.3	Oblong	White
CO02321-4W	Hig	75.2	43.8	24.1	7.4	0.0	24.8	0.0	1.081	17.0	Round	White
NDTX091908AB-02W	WR	73.0	36.8	28.6	7.6	0.0	27.0	0.0	1.051	11.5	Round	White
Snowden	WR	73.1	41.1	25.6	6.4	0.0	26.9	0.0	1.064	13.9	Round	White
CO07070-13W	WR	73.0	47.3	23.4	2.3	0.0	27.0	0.0	1.070	14.9	Round	White
NDTX081648CB-13W	WR	66.9	41.8	22.2	2.9	0.0	33.1	0.0	1.075	16.0	Round	White
CO07070-10W	WR	66.8	41.2	24.3	1.2	0.0	33.2	0.0	1.083	17.3	Oblong	White
AC01144-1W	SW	75.2	43.2	25.4	6.6	0.0	24.8	0.0	1.070	14.9	Round	White
NY153	Hig	74.6	47.4	25.0	2.3	0.0	25.4	0.0	1.079	16.5	Oblong	White
W5955-1	Hig	80.5	22.3	35.3	22.9	4.0	15.4	0.0	1.074	15.7	Round	White
NDA081453CAB-2C	WR	80.6	36.0	32.1	12.5	0.0	19.4	0.0	1.072	15.3	Round	White
Olympus	Real	76.7	50.3	20.3	6.1	0.0	23.3	0.0	1.070	15.0	Round	White
MSW509-5	Hig	66.6	42.7	18.8	5.0	0.0	33.4	0.0	1.062	13.6	Round	White
AC05153-1W	WR	75.3	42.8	28.3	4.2	0.0	24.7	0.0	1.078	16.4	Round	White
Lamoka	Hig	81.5	39.5	27.4	14.6	0.0	18.5	0.0	1.079	16.6	Oblong	White
W2978-3	Real	68.2	40.3	21.9	6.0	0.0	31.8	0.0	1.067	14.5	Oblong	White
MSM246-B	Hig	64.3	41.9	21.5	0.9	0.0	35.7	0.0	1.075	15.9	Oblong	White
Average		75.5	39.5	27.8	8.1	0.5	24.1	0.0	1.072	15.3		
L.S.D. (.05)		6.5	7.7	8.4	5.5	1.7	6.7	ns	0.004	0.7		

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Table 1c. Average number of tubers per plant, average tuber weight, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 32 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>5</sup>	Vine Size <sup>4</sup>	
NY152	Hig	15.5	3.1	100	100	2.5	4.0	3.7	4.0	0
Atlantic	WR	10.3	4.3	96	100	2.0	4.5	4.0	4.5	10
MSQ086-3	Hig	14.4	3.2	93	100	1.5	4.6	5.0	4.5	0
MSW485-2	Hig	15.5	2.9	93	100	2.0	4.7	4.8	4.6	0
TX09396-1W	WR	9.7	4.6	100	100	1.5	4.8	5.0	4.7	0
MSW358-3	Hig	11.9	3.7	95	100	2.0	4.0	3.6	4.2	0
OR9253-1	WR	11.9	3.6	100	100	1.5	4.8	5.0	4.7	0
AOR09034-3	WR	12.6	3.4	100	100	2.0	4.5	4.5	4.4	0
NDTX071109C-01W	WR	7.6	5.5	100	100	2.5	3.7	2.5	3.6	40
AF4648-2	Hig	10.2	4.1	100	100	2.0	4.4	4.8	4.3	0
MSR127-2	Hig	10.2	4.0	100	100	2.0	4.8	4.6	4.5	0
CO03243-3W	Hig	11.9	3.5	100	100	2.5	4.0	3.5	4.0	10
B2727-2	Hig	10.1	4.1	100	100	2.0	4.0	4.4	4.1	0
NC0349-3	Hig	10.3	4.0	100	100	1.5	4.3	4.0	4.2	0
OR09256-2	WR	12.7	3.2	100	100	2.0	4.6	4.0	4.5	0
MSY301-2	Hig	10.6	3.8	100	100	2.5	4.0	3.0	4.0	20
CO02321-4W	Hig	12.0	3.3	100	100	1.5	4.5	4.5	4.4	0
NDTX091908AB-02W	WR	11.4	3.4	75	100	2.5	4.0	3.6	4.0	0
Snowden	WR	10.7	3.6	100	100	1.5	4.4	4.5	4.5	0
CO07070-13W	WR	11.8	3.3	100	100	2.5	3.5	3.0	3.6	20
NDTX081648CB-13W	WR	13.3	2.9	100	100	1.5	4.8	5.0	4.6	0
CO07070-10W	WR	13.2	2.9	100	100	2.0	4.5	3.4	4.4	15
AC01144-1W	SW	12.0	3.2	96	100	1.5	4.0	4.5	3.9	0
NY153	Hig	11.8	3.2	100	100	1.5	4.7	4.0	4.5	0
W5955-1	Hig	7.0	5.4	88	100	2.0	4.5	5.0	4.4	0
NDA081453CAB-2C	WR	9.2	4.1	88	100	1.5	4.2	4.5	4.0	0
Olympus	Real	10.4	3.4	100	100	2.0	4.4	5.0	4.3	0
MSW509-5	Hig	11.3	3.0	100	100	2.0	4.4	3.5	4.2	10
AC05153-1W	WR	9.7	3.4	91	100	2.0	4.4	4.0	4.2	0
Lamoka	Hig	7.4	4.1	94	100	2.0	4.4	4.0	4.2	0
W2978-3	Real	9.3	3.2	100	100	2.0	4.4	4.0	4.4	0
MSM246-B	Hig	9.5	2.6	100	100	2.0	4.7	4.8	4.6	0
Average		11.5	3.7	97	100	1.9	4.3	4.2	4.3	5
L.S.D. (.05)		1.9	0.5	ns	ns	0.1	0.1	0.1	0.1	5

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

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Table 1d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 32 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
NY152	Hig	1.0	2.0	2.5	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Atlantic	WR	1.0	2.5	2.5	4.0	2.5	5.0	5.0	5.0	5.0	5.0	60	0	0	70
MSQ086-3	Hig	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
MSW485-2	Hig	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09396-1W	WR	1.0	2.5	1.0	3.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
MSW358-3	Hig	1.0	2.5	3.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
OR9253-1	WR	1.0	2.0	1.0	3.5	1.0	5.0	5.0	5.0	5.0	4.6	0	0	0	0
AOR09034-3	WR	1.0	2.5	1.0	3.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX071109C-01W	WR	1.0	2.5	1.0	3.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AF4648-2	Hig	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
MSR127-2	Hig	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.6	0	0	0	0
CO03243-3W	Hig	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
B2727-2	Hig	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NC0349-3	Hig	1.0	2.0	2.5	3.8	2.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
OR09256-2	WR	1.0	2.0	2.5	4.0	2.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
MSY301-2	Hig	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO02321-4W	Hig	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX091908AB-02W	WR	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Snowden	WR	1.0	2.0	2.5	3.5	2.5	5.0	5.0	5.0	5.0	5.0	10	0	0	0
CO07070-13W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081648CB-13W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO07070-10W	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC01144-1W	SW	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NY153	Hig	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
W5955-1	Hig	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDA081453CAB-2C	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Olympus	Real	1.0	2.0	2.5	4.0	2.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
MSW509-5	Hig	1.0	2.0	1.0	3.5	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC05153-1W	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Lamoka	Hig	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
W2978-3	Real	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
MSM246-B	Hig	1.0	2.0	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	2.2	1.4	3.9	1.4	5.0	5.0	5.0	5.0	5.0	2	0	0	2

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

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Table 1e. Notes and general rating for all reps of 32 entries in the Western and Southwestern  
Regional Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Notes Grading	General Rating Grading
NY152	Hig	buff, nice size, , ,	3.4, 3.4, 3.4, 3.4
Atlantic	WR	, , , large tubers, poor internals	3.5, 3.5, 3.5, 3.5
MSQ086-3	Hig	heavy set, yield+, , ,	3.6, 3.6, 3.6, 3.6
MSW485-2	Hig	small, heavy set++, , ,	3.8, 3.8, 3.8, 3.8
TX09396-1W	WR	some rough, nice size and shape, , ,	3.6, 3.6, 3.6, 3.6
MSW358-3	Hig	, yield+, russ, buff skin, ,	3.4, 3.4, 3.4, 3.4
OR9253-1	WR	, , some rough, feathering,	3, 3, 3, 3
AOR09034-3	WR	, , some rough,	3.4, 3.4, 3.4, 3.4
NDTX071109C-01W	WR	large tubers, yield+, deep nose, rough, , ,	3.6, 3.6, 3.6, 3.6
AF4648-2	Hig	, smooth, nice skin, ,	3.8, 3.8, 3.8, 3.8
MSR127-2	Hig	, , feathering, smooth,	3.5, 3.5, 3.5, 3.5
CO03243-3W	Hig	, , nice size, BOT-,	3.8, 3.8, 3.8, 3.8
B2727-2	Hig	some rough, yield+, nice shape, , ,	3.7, 3.7, 3.7, 3.7
NC0349-3	Hig	, , buff nice shape,	3.7, 3.7, 3.7, 3.7
OR09256-2	WR	, buff, nice size, ,	3.6, 3.6, 3.6, 3.6
MSY301-2	Hig	some rough, , ,	3.3, 3.3, 3.3, 3.3
CO02321-4W	Hig	smooth, BOT-, , ,	4, 4, 4, 4
NDTX091908AB-02W	WR	smooth, nice shape, BOT+, , ,	4.5, 4.5, 4.5, 4.5
Snowden	WR	, , nice size, some rough,	3.4, 3.4, 3.4, 3.4
CO07070-13W	WR	smooth, heavy set, , ,	3.8, 3.8, 3.8, 3.8
NDTX081648CB-13W	WR	, yield, nice shape and size, smooth, BOT-, , ,	3.7, 3.7, 3.7, 3.7
CO07070-10W	WR	some rough, , ,	3.5, 3.5, 3.5, 3.5
AC01144-1W	SW	smooth, , ,	3.6, 3.6, 3.6, 3.6
NY153	Hig	, , variable size,	3.4, 3.4, 3.4, 3.4
W5955-1	Hig	smooth, , ,	3.7, 3.7, 3.7, 3.7
NDA081453CAB-2C	WR	, smooth, , ,	3.6, 3.6, 3.6, 3.6
Olympus	Real	nice size, , ,	3.8, 3.8, 3.8, 3.8
MSW509-5	Hig	, , , buff, small, deep eyes	3.6, 3.6, 3.6, 3.6
AC05153-1W	WR	, some rough, ,	3.5, 3.5, 3.5, 3.5
Lamoka	Hig	, nice size, uniform, ,	3.8, 3.8, 3.8, 3.8
W2978-3	Real	, smooth, small, ,	3.6, 3.6, 3.6, 3.6
MSM246-B	Hig	, buff, small, ,	3.4, 3.4, 3.4, 3.4

Dalhart  
Table 1f. Specific gravity, percent solids, chip color rating, good chip bad chip ratio, notes, percentage of Zebra Defect at chipping, and percentage Zebra Defect at grading of 32 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Gravity	% Solids	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect
NY152	Hig	1.069	14.7	1	20/0	nice	0%
Atlantic	WR	1.075	15.8	1	0/20		35%
MSQ086-3	Hig	1.061	13.4	1	9/12	K-	0%
MSW485-2	Hig	1.073	15.6	1	9/12		0%
TX09396-1W	WR	1.076	16.1	1	13/8	nice, 1 Mech	0%
MSW358-3	Hig	1.067	14.5	2	10/10	K-	0%
OR9253-1	WR	1.078	16.5	1	18/2		0%
AOR09034-3	WR	1.075	15.8	1	9/11	K-; 1 sugar	0%
NDTX071109C-01W	WR	1.054	12.2	1	10/10	K	0%
AF4648-2	Hig	1.076	16.1	1	14/4		0%
MSR127-2	Hig	1.071	15.2	1	19/2	nice	0%
CO03243-3W	Hig	1.071	15.1	1	16/4	nice	0%
B2727-2	Hig	1.080	16.8	1	19/11	nice	0%
NC0349-3	Hig	1.071	15.2	1	15/3	nice	0%
OR09256-2	WR	1.079	16.6	1	10/11	K-	0%
MSY301-2	Hig	1.066	14.3	1	7/12	1GH	0%
CO02321-4W	Hig	1.081	17.0	1	15/5	K	0%
NDTX091908AB-02W	WR	1.051	11.5	1	9/9	K	0%
Snowden	WR	1.064	13.9	1	8/12		0%
CO07070-13W	WR	1.070	14.9	1	11/11		0%
NDTX081648CB-13W	WR	1.075	16.0	2	2/19	drop	0%
CO07070-10W	WR	1.083	17.3	1	11/5	K; 1 GH	0%
AC01144-1W	SW	1.070	14.9	1	9/10		0%
NY153	Hig	1.079	16.5	1	20/2	1BC, nice	0%
W5955-1	Hig	1.074	15.7	1	14/6	K	0%
NDA081453CAB-2C	WR	1.072	15.3	1	10/10	K	0%
Olympus	Real	1.070	15.0	1	9/9	K	0%
MSW509-5	Hig	1.062	13.6	1	0/18	drop	0%
AC05153-1W	WR	1.078	16.4	1	18/1		0%
Lamoka	WR	1.079	16.6	1	9/11	K-	5%
W2978-3	WR	1.067	14.5	1	3/17	3 sugar end	5%
MSM246-B	WR	1.075	15.9	1	10/10	K-	0%

One .05" slice per tuber, at least 10 tubers per rep, three reps, 1 min 25 sec, 365°F corn oil.

<sup>1</sup>1=poor, 5=excellent

<sup>2</sup>1=light, 3+=very dark

<sup>3</sup>BOT=Best Of Trial, Vas=vascular heat necrosis, Dark=high sugars, BSB=blackspot bruise, HH=hollow heart, IBS=internal brownspot, SE=sugar ends, PB= pressure bruise, GH=greenheads, Z=zebra

## Western Regional and Texas Advanced Russet Trial, Dalhart

This trial consisted of twenty four entries, including the check varieties Ranger Russet, Russet Burbank, and Russet Norkotah.

Results were as follows: (Dalhart Tables 2a, 2b, 2c, 2d, and 2e)

- Reveille Russet and COTX09022-3RuRE/Y received high a general rating and a best of trial designation, while TX08352-5Ru, TXA549-1RU, and Russet Norkotah278 also received a high general rating (Tables 2a and 2e).
- TX08352-5Ru had the highest total yield and marketable yield, while A03141-6 had the highest yield of over 10 oz. tubers (Table 2a).
- CO04220-7RU had the highest yield of less than 4 oz. tubers, while Shepody had the highest yield of culls/No.2 tubers (Table 2a).
- TX08352-5Ru, Reveille Russet, and A06021-1T had the highest percentage of marketable yield (Table 2b).
- CO08065-2RU had the highest percentage of less than 4 oz. tubers. Russet Burbank had the highest percentage of culls/No. 2 tubers (Table 2b).
- A03921-2 and AOR06070-1KF had the highest specific gravity (Table 2b).
- CO08231-1RU and AOR06070-1KF were the latest maturing entries, while TX08352-5Ru and CO08155-2RU/Y were the earliest maturing entries (Table 2c).
- CO04220-7RU had the highest percentage of internal brownspot (Table 2d).

Comments on entries:

- |                      |             |  |
|----------------------|-------------|--|
| • TX08352-5Ru        | Long Russet | yield+, nice shape, BOT-                         |
| • Reveille Russet    | Long Russet | BOT, light set, very nice shape                  |
| • Russet Norkotah278 | Long Russet | curved, nice skin                                |
| • CO04220-7RU        | Long Russet | skinny, small, pointed                           |
| • AO06191-1          | Long Russet | curved, rough, large tubers                      |
| • A03141-6           | Long Russet | rough, pointed, light skin, skinny               |
| • TXA549-1RU         | Long Russet | blocky, nice skin, some rough, some hollow heart |
| • A06021-1T          | Long Russet | small, skinny, variable size                     |

- Russet Norkotah Long Russet skinny, curved, variable size
- COTX09022-3RuRE/Y Oblong Russet BOT-, yield+, nice yellow flesh, red eyes, round to oblong
- CO05068-1RU Long Russet drop, blocky, round to oblong, flat, skinny, deep eyes
- COTX09052-2Ru Long Russet small ++ drop
- AO03123-2 Long Russet skinny, curved
- CO05152-5RU Long Russet nice skin, very small, second set
- CO08231-1RU Long Russet very small, second set, nice shape
- CO05175-1RU Long Russet yield+, poor shape, curved, rough
- Ranger Russet Long Russet rough, poor shape
- A03921-2 Long Russet light skin, pointed
- AOR06070-1KF Long Russet nice skin, small, second set, pointed
- CO08155-2RU/Y Long Russet light skin, nice shape, small, light yellow flesh
- Russet Norkotah296 Long Russet rough, curved, yield++
- Shepody Long White white skin, rough, poor shape
- CO08065-2RU Oblong Russet nice skin, oblong, small, nice shape
- Russet Burbank Long Russet skinny, rough

Summary:

Reveille Russet, TX08352-5Ru, COTX09022-3RuRE/Y, and TXA549-1RU were the outstanding entries based on all factors.



Dalhart  
Table 2a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 24 entries in the Western and Southwestern Regional Russet Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
TX08352-5Ru	WR	632.0	498.0	140.4	224.0	133.6	21.0	105.2	7.7	4.0
Reveille Russet	WR	623.0	474.4	109.1	167.7	197.7	25.8	73.2	49.6	4.1
Russet Norkotah278	TXRU	606.2	444.1	104.2	179.4	160.6	38.8	104.2	19.0	3.7
CO04220-7RU	WR	603.8	382.2	203.3	151.5	27.3	2.7	177.2	41.7	3.0
AO06191-1	WR	602.5	421.2	74.9	134.2	212.1	59.1	40.3	82.0	3.4
A03141-6	WR	586.2	398.6	51.1	116.4	231.2	59.8	26.7	101.0	3.2
TXA549-1RU	TXADV	583.6	442.9	111.5	178.6	152.8	27.3	78.6	34.8	3.8
A06021-1T	WR	552.2	427.1	105.2	156.9	165.0	20.3	70.8	34.2	3.1
Russet Norkotah	WR	550.5	361.4	126.9	147.9	86.6	17.3	121.8	50.0	3.5
COTX09022-3RuRE/Y	WR	538.5	367.1	141.3	143.9	82.0	0.0	169.3	2.0	3.7
CO05068-1RU	WR	530.0	339.5	111.5	155.7	72.2	5.1	108.8	76.6	2.6
COTX09052-2Ru	WR	525.4	346.0	136.2	132.8	77.1	4.9	164.0	10.4	3.0
AO03123-2	WR	508.8	335.1	111.0	142.5	81.5	10.2	83.0	80.5	2.5
CO05152-5RU	WR	481.7	220.5	114.2	86.0	20.3	2.7	175.2	83.3	2.5
CO08231-1RU	SW	478.8	306.8	146.8	113.3	46.7	0.0	162.5	9.5	3.4
CO05175-1RU	WR	473.8	250.9	79.1	109.3	62.5	9.9	116.4	96.6	3.0
Ranger Russet	WR	447.1	296.0	119.5	106.2	70.3	8.6	81.6	60.9	2.5
A03921-2	WR	442.9	338.7	109.3	133.5	95.9	16.6	53.9	33.7	3.4
AOR06070-1KF	WR	442.7	300.7	118.8	118.4	63.5	4.9	94.3	42.8	3.1
CO08155-2RU/Y	SW	428.3	318.5	147.3	128.8	42.3	0.0	98.1	11.7	3.4
Russet Norkotah296	TX ADV	415.1	301.4	79.4	103.8	118.2	19.8	55.8	38.1	3.4
Shepody	WR	390.6	201.6	83.2	81.3	37.1	0.0	65.6	123.4	2.5
CO08065-2RU	SW	385.5	222.6	108.0	88.4	26.2	2.2	137.5	23.2	3.4
Russet Burbank	WR	307.5	116.6	66.6	37.3	12.6	0.0	69.5	121.3	2.5
Average		505.7	338.0	112.5	130.7	94.8	14.9	101.4	51.4	3.2
L.S.D. (.05)		73.7	69.0	40.5	45.2	48.1	23.1	40.1	38.2	0.2

<sup>1</sup> 1=very poor to 5= excellent

Dalhart  
Table 2b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 24 entries in the Western and Southwestern Regional Russet Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
TX08352-5Ru	WR	78.8	22.2	35.4	21.1	3.3	16.7	1.2	1.055	12.3	Long	Russet
Reveille Russet	WR	76.1	17.5	26.9	31.7	4.1	11.8	8.0	1.062	13.5	Long	Russet
Russet Norkotah278	TXRU	73.3	17.2	29.6	26.5	6.4	17.2	3.1	1.060	13.2	Long	Russet
CO04220-7RU	WR	63.3	33.7	25.1	4.5	0.5	29.3	6.9	1.058	12.8	Long	Russet
AO06191-1	WR	69.9	12.4	22.3	35.2	9.8	6.7	13.6	1.073	15.5	Long	Russet
A03141-6	WR	68.0	8.7	19.9	39.4	10.2	4.6	17.2	1.065	14.1	Long	Russet
TXA549-1RU	TXADV	75.9	18.4	30.6	26.2	4.7	13.5	6.0	1.068	14.7	Long	Russet
A06021-1T	WR	77.3	19.0	28.4	29.9	3.7	12.8	6.2	1.066	14.2	Long	Russet
Russet Norkotah	WR	65.7	23.1	26.9	15.7	3.1	22.1	9.1	1.058	12.9	Long	Russet
COTX09022-3RuRE/Y	WR	68.2	26.2	26.7	15.2	0.0	31.4	0.4	1.070	15.0	Oblong	Russet
CO05068-1RU	WR	64.0	21.0	29.4	13.6	1.0	20.5	14.5	1.076	16.1	Long	Russet
COTX09052-2Ru	WR	65.9	25.9	25.3	14.7	0.9	31.2	2.0	1.060	13.2	Long	Russet
AO03123-2	WR	65.9	21.8	28.0	16.0	2.0	16.3	15.8	1.070	15.1	Long	Russet
CO05152-5RU	WR	45.8	23.7	17.9	4.2	0.6	36.4	17.3	1.065	14.1	Long	Russet
CO08231-1RU	SW	64.1	30.7	23.7	9.7	1.8	33.9	2.0	1.065	14.0	Long	Russet
CO05175-1RU	WR	52.9	16.7	23.1	13.2	2.1	24.6	20.4	1.062	13.5	Long	Russet
Ranger Russet	WR	66.2	26.7	23.7	15.7	1.9	18.3	13.6	1.074	15.7	Long	Russet
A03921-2	WR	76.5	24.7	30.1	21.7	3.7	12.2	7.6	1.079	16.6	Long	Russet
AOR06070-1KF	WR	67.9	26.8	26.7	14.3	1.1	21.3	9.7	1.079	16.6	Long	Russet
CO08155-2RU/Y	SW	74.4	34.4	30.1	9.9	0.0	22.9	2.7	1.064	13.9	Long	Russet
Russet Norkotah296	TX ADV	72.6	19.1	25.0	28.5	4.8	13.4	9.2	1.056	12.6	Long	Russet
Shepody	WR	51.6	21.3	20.8	9.5	0.0	16.8	31.6	1.068	14.6	Long	White
CO08065-2RU	SW	57.7	28.0	22.9	6.8	0.6	35.7	6.0	1.076	16.0	Oblong	Russet
Russet Burbank	WR	37.9	21.7	12.1	4.1	0.0	22.6	39.5	1.057	12.7	Long	Russet
Average		65.8	22.5	25.4	17.8	2.8	20.5	11.0	1.066	14.3		
L.S.D. (.05)		9.2	7.7	8.6	8.1	4.7	6.9	7.6	0.005	0.9		

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Table 2c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 24 entries in the Western and Southwestern Regional Russet Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
TX08352-5Ru	WR	8.3	5.6	100	2.3	3.7	2.0	3.7	90
Reveille Russet	WR	6.2	7.3	100	2.0	4.2	3.7	3.7	20
Russet Norkotah278	TXRU	6.9	6.4	100	2.0	3.8	3.7	4.2	60
CO04220-7RU	WR	10.4	4.3	100	2.3	3.8	3.5	3.7	30
AO06191-1	WR	5.1	8.7	100	1.5	4.5	4.0	4.5	10
A03141-6	WR	4.8	8.9	100	2.0	4.3	3.8	4.0	5
TXA549-1RU	TXADV	6.6	6.5	100	1.5	4.2	4.3	4.2	10
A06021-1T	WR	6.6	6.1	100	2.5	3.5	3.0	3.5	50
Russet Norkotah	WR	7.9	5.1	100	2.5	3.6	3.0	3.7	70
COTX09022-3RuRE/Y	WR	9.1	4.3	100	2.0	4.1	2.0	3.9	85
CO05068-1RU	WR	7.6	5.0	100	1.5	4.5	4.3	4.5	10
COTX09052-2Ru	WR	8.2	4.7	100	2.0	3.7	3.0	3.5	65
AO03123-2	WR	6.7	5.5	100	2.0	4.0	3.5	3.8	30
CO05152-5RU	WR	10.1	3.9	92	1.8	3.9	3.6	3.9	10
CO08231-1RU	SW	9.1	3.8	100	2.0	3.9	4.8	3.9	0
CO05175-1RU	WR	6.2	5.6	100	1.5	4.5	4.0	4.2	5
Ranger Russet	WR	6.4	5.1	100	1.8	3.8	3.8	3.9	20
A03921-2	WR	5.1	6.4	100	2.0	4.0	3.3	3.8	25
AOR06070-1KF	WR	6.2	5.2	100	2.0	4.0	5.0	4.0	0
CO08155-2RU/Y	SW	7.1	4.5	100	1.5	4.5	2.5	4.0	75
Russet Norkotah296	TX ADV	4.8	6.3	100	2.0	3.8	3.4	4.0	40
Shepody	WR	5.5	5.2	100	1.5	4.5	3.5	4.4	35
CO08065-2RU	SW	6.7	4.2	100	2.0	3.3	3.5	3.3	25
Russet Burbank	WR	5.1	4.4	100	2.0	4.2	3.3	4.1	40
Average		6.9	5.5	100	1.9	4.0	3.5	3.9	34
L.S.D. (.05)		1.6	0.7	ns	0.3	0.3	0.1	0.2	5

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart  
Table 2d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 24 entries in the Western and Southwestern Regional Russet Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
TX08352-5Ru	WR	1.0	3.8	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Reveille Russet	WR	1.0	3.8	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah278	TXRU	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO04220-7RU	WR	1.0	3.8	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	35
AO06191-1	WR	1.0	3.8	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A03141-6	WR	1.0	4.0	3.5	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXA549-1RU	TXADV	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	10	0	0	0
A06021-1T	WR	1.0	3.8	3.8	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah	WR	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09022-3RuRE/Y	WR	3.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05068-1RU	WR	1.0	3.7	3.8	3.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09052-2Ru	WR	1.0	3.7	3.8	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AO03123-2	WR	1.0	4.0	3.8	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05152-5RU	WR	1.0	3.5	3.8	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO08231-1RU	SW	1.0	3.5	4.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05175-1RU	WR	1.0	4.0	3.5	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Ranger Russet	WR	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A03921-2	WR	1.0	4.0	3.8	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOR06070-1KF	WR	1.0	3.8	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO08155-2RU/Y	SW	2.5	3.8	3.0	4.0	3.3	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah296	TX ADV	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Shepody	WR	1.0	3.8	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO08065-2RU	SW	1.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Burbank	WR	1.0	4.0	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.1	3.8	3.7	3.9	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	1

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Dalhart  
Table 2e.

Notes and general rating for all reps of 24 entries in the Western and Southwestern Regional Russet  
Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Notes Grading	General Rating Grading
TX08352-5Ru	WR	, yield+, nice shape, BOT-, ,	4, 4, 4, 4
Reveille Russet	WR	BOT, light set, very nice shape, , ,	4, 4.2, 4.2, 4
Russet Norkotah278	TXRU	, , , curved, nice skin	3.6, 3.6, 3.8, 3.6
CO04220-7RU	WR	skinny, small, pointed, , ,	3, 3, 3, 3
AO06191-1	WR	curved, rough, large tubers, , ,	3.4, 3.4, 3.4, 3.4
A03141-6	WR	, rough, pointed, light skin, skinny, ,	3.4, 3, 3.4, 3
TXA549-1RU	TXADV	, blocky, nice skin, some rough, some hollow heart, ,	3.8, 3.8, 3.8, 3.8
A06021-1T	WR	, small, skinny, variable size, ,	3, 3, 3.3, 3
Russet Norkotah	WR	skinny, curved, variable size, , ,	3.5, 3.6, 3.4, 3.5
COTX09022-3RuRE/Y	WR	, , BOT-, yield+, nice yellow flesh, red eyes, round to oblong,	3.8, 3.8, 3.4, 3.6
CO05068-1RU	WR	, , drop, blocky, round to oblong, flat, skinny, deep eyes,	2.5, 2.7, 2.5, 2.5
COTX09052-2Ru	WR	small ++ drop, , ,	3, 3.5, 3, 2.5
AO03123-2	WR	, , , skinny, curved	2.5, 2.5, 2.5, 2.5
CO05152-5RU	WR	, , nice skin, very small, second set,	2.5, 2.5, 2.5, 2.5
CO08231-1RU	SW	very small, second set, nice shape, , ,	3.4, 3.4, 3.4, 3.45
CO05175-1RU	WR	, , , yield+, poor shape, curved, rough	3, 3, 3, 3
Ranger Russet	WR	, , , rough, poor shape	2.5, 2.5, 2.5, 2.5
A03921-2	WR	, light skin, pointed, ,	3.4, 3.3, 3.4, 3.4
AOR06070-1KF	WR	, nice skin, small, second set, pointed, ,	3, 3, 3.3, 3
CO08155-2RU/Y	SW	, light skin, nice shape, small, light yellow flesh, ,	3.4, 3.4, 3.4, 3.4
Russet Norkotah296	TX ADV	, rough, curved, yield++, ,	3.4, 3.4, 3.4, 3.4
Shepody	WR	, , white skin, rough, poor shape,	2.5, 2.5, 2.5, 2.5
CO08065-2RU	SW	, , , nice skin, oblong, small, nice shape	3.4, 3.3, 3.4, 3.3
Russet Burbank	WR	, , skinny, rough,	2.5, 2.5, 2.5, 2.5

## Western Regional and Texas Advanced Red Trial, Dalhart

This trial consisted of eight entries, including the check varieties Red LaSoda and Chieftan.

Results were as follows: (Dalhart Tables 3a, 3b, 3c, 3d, and 3e)

- NDC081655-1R, CO00277-2R, ATTX98453-6R, and COTX00104-6R had the highest general ratings (Table 3a).
- Red LaSoda had the highest total, and marketable yield, while NDC081655-1R had the highest yield of less than 4 oz. tubers (Table 3b).
- Chieftan had the highest yield of 4-6 oz. tubers (Table 3a).
- ATTX98453-6R had the highest percentage of marketable yield, while NDC081655-1R had the highest percentage of less than 4 oz. tubers (Table 3b).
- ATTX98453-6R had the highest specific gravity (Table 3b).
- NDC081655-1R had the highest average number of tubers per plant (Table 3c).
- Red LaSoda and COTX00104-6R were the latest in maturity entries, while ATTX98453-6R and NDTX5438-11R were the earliest in maturity (Table 3c).
- Red LaSoda had the deepest eyes (Table 3d).

### Comments on entries:

- |                |            |  |
|----------------|------------|--|
| • Red LaSoda   | Oblong Red | yield++, deep eyes, silver scurf                       |
| • Chieftan     | Oblong Red | light skin color, silver scurf                         |
| • NDC081655-1R | Round Red  | small potato   |
| • CO00277-2R   | Oblong Red | growth cracks, dark skin color, ok shape, silver scurf |
| • ATTX98453-6R | Round Red  | nice shape, variable size, nice color, silver scurf    |
| • COTX00104-6R | Round Red  | silver scurf, nice shape                               |
| • CO99256-2R   | Oblong Red | silver scurf, heat spouts, drop                        |
| • NDTX5438-11R | Round Red  | poor yield, nice skin                                  |

### Summary:

Overall, ATTX98453-6R and NDC081655-1R were the outstanding entries based on all factors.

Dalhart  
Table 3a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 8 entries in the Western and Southwestern Regional Red Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
Red LaSoda	WR	699.9	606.4	221.1	215.7	169.6	12.4	81.0	0.0	3.3
Chieftan	WR	627.4	540.1	232.1	197.5	110.5	6.2	81.1	0.0	3.4
NDC081655-1R	SW	498.6	283.9	210.8	63.7	9.3	4.6	210.1	0.0	3.5
CO00277-2R	Real	402.4	308.2	218.9	78.3	11.0	0.0	94.2	0.0	3.5
ATTX98453-6R	TX-ADV	394.1	346.0	101.8	138.9	105.4	8.8	39.3	0.0	3.5
COTX00104-6R	SW	337.5	293.8	72.3	157.6	63.9	4.2	39.5	0.0	3.5
CO99256-2R	Real	179.5	122.3	87.1	34.2	0.9	0.0	57.3	0.0	3.0
NDTX5438-11R	TX-CO	91.0	76.0	40.4	29.5	6.0	4.2	10.8	0.0	2.0
Average		403.8	322.1	148.1	114.4	59.6	5.1	76.7	0.0	3.2
L.S.D. (.05)		40.0	43.6	39.4	40.0	23.8	8.3	19.2	ns	0.1

<sup>1</sup> 1=very poor to 5= excellent

Dalhart  
Table 3b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 8 entries in the Western and Southwestern Regional Red Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Red LaSoda	WR	86.6	31.6	30.8	24.2	1.8	11.6	0.0	1.058	12.9	Oblong	Red
Chieftan	WR	86.1	37.0	31.5	17.6	1.0	12.9	0.0	1.056	12.5	Oblong	Red
NDC081655-1R	SW	56.9	42.3	12.8	1.9	0.9	42.1	0.0	1.064	14.0	Round	Red
CO00277-2R	Real	76.6	54.4	19.5	2.7	0.0	23.4	0.0	1.056	12.6	Oblong	Red
ATTX98453-6R	TX-ADV	87.8	25.8	35.2	26.7	2.2	10.0	0.0	1.061	13.4	Round	Red
COTX00104-6R	SW	87.0	21.4	46.7	18.9	1.2	11.7	0.0	1.052	11.8	Round	Red
CO99256-2R	Real	68.1	19.4	19.1	0.5	0.0	31.9	0.0	1.052	11.8	Oblong	Red
NDTX5438-11R	TX-CO	83.5	44.5	32.4	6.6	4.6	11.9	0.0	1.052	11.7	Round	Red
Average		79.1	34.6	28.5	12.4	1.5	19.4	0.0	1.056	12.6		
L.S.D. (.05)		4.7	8.6	6.6	5.3	ns	5.2	ns	0.004	0.7		



Dalhart  
Table 3c.

Average number of tubers per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 8 entries in the Western and Southwestern Regional Red Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
Red LaSoda	WR	11.0	4.7	100	2.5	4.5	4.8	4.5	0
Chieftan	WR	10.6	4.3	100	1.8	3.8	3.5	4.0	20
NDC081655-1R	SW	16.0	2.3	100	2.0	3.8	3.8	3.9	10
CO00277-2R	Real	10.8	3.1	89	1.5	3.8	4.0	4.1	0
ATTX98453-6R	TX-ADV	6.7	5.4	83	2.5	2.5	3.3	3.0	20
COTX00104-6R	SW	5.6	5.1	88	1.1	1.4	5.0	3.7	0
CO99256-2R	Real	8.6	2.8	58	1.8	4.1	4.0	4.2	0
NDTX5438-11R	TX-CO	10.9	3.7	19	1.8	2.7	2.0	2.0	0
Average		10.0	3.9	80	1.9	3.3	3.8	3.7	6
L.S.D. (.05)		3.8	0.5	19	0.7	1.0	0.1	0.3	5

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart  
Table 3d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 8 entries in the Western and Southwestern Regional Red Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
Red LaSoda	WR	1.0	3.0	1.0	2.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Chieftan	WR	1.0	2.5	1.0	4.0	3.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDC081655-1R	SW	1.0	2.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO00277-2R	Real	1.0	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX98453-6R	TX-ADV	1.0	2.0	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX00104-6R	SW	1.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO99256-2R	Real	1.0	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX5438-11R	TX-CO	1.0	2.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	2.5	1.0	3.8	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Dalhart  
Table 3e.

Notes and general rating for all reps of 8 entries in the Western and Southwestern Regional Red  
Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Notes Grading	General Rating Grading
Red LaSoda	WR	, , yield++, deep eyes, silver scurf,	3.3, 3.3, 3.3, 3.3
Chieftan	WR	, , , light skin color, silver scurf	3.4, 3.4, 3.4, 3.4
NDC081655-1R	SW	small potato, , ,	3.5, 3.5, 3.5, 3.5
CO00277-2R	Real	growth cracks, dark skin color, ok shape, silver scurf, , ,	3.5, 3.5, 3.5, 3.5
ATTX98453-6R	TX-ADV	nice shape, variable size, nice color, silver scurf, , ,	3.5, 3.5, 3.5, 3.5
COTX00104-6R	SW	, silver scurf, nice shape, ,	3.5, 3.5, 3.5, 3.5
CO99256-2R	Real	silver scurf, heat spouts, drop, , ,	3, 3, 3, 3
NDTX5438-11R	TX-CO	, , poor yield, nice skin,	2, 2, 2, 2

## Western Regional and Texas Advanced Red/Yellow Trial, Dalhart

This trial consisted of seven entries.

Results were as follows: (Dalhart Tables 4a, 4b, 4c, 4d, and 4e)

- NDTX059759-3RY/Y Pinto received the highest general rating and a best of trial designation (Table 4a and 4e).
- CO05035-1PW/Y had the highest total and marketable yield (Table 4a).
- COA07365-4RY had the highest yield of less than 4 oz. tubers, while CO05035-1PW/Y had the highest yield of 6-10 oz. and 10-18 oz. tubers (Table 4a).
- CO05035-1PW/Y had the highest yield of culls/No. 2 tubers (Table 4a).
- ATTX98514-1R/Y had the highest percentage of marketable yield. COA07365-4RY had the highest percentage of less than 4 oz. tubers (Table 4b).
- CO05035-1PW/Y had the highest percentage of culls/No. 2 tubers (Table 4b).
- NDTX059759-3RY/Y Pinto had the highest specific gravity (Table 4b).
- COA07365-4RY had the highest average number of tubers per plant (Table 4c).
- NDTX059759-3RY/Y Pinto and ATTX98514-1R/Y were the latest maturing entries, while AC05175-3P/Y was the earliest maturing entry (Table 4c).

### Comments on entries:

- |                          |            |   |
|--------------------------|------------|---|
| • CO05035-1PW/Y          | Oblong Red | rough, light purple skin, light flesh, silver scurf, FC=2.0   |
| • AC05175-3P/Y           | Round Red  | deep eyes, heat sprouts, nice skin, flesh, and shape, FC=3.0  |
| • NDTX059759-3RY/Y Pinto | Oblong Red | BOT, some flat, nice flesh, smooth skin, FC=3.0               |
| • AC03534-2R/Y           | Oblong Red | nice size and shape, silver scurf, FC=3.0                     |
| • ATTX98514-1R/Y         | Oblong Red | light skin, nice flesh, skin, and shape, silver scurf, FC=3.3 |
| • COA07365-4RY           | Oblong Red | small, nice shape, silver scurf, FC=3.0                       |
| • BTX2103-1R/Y           | Oblong Red | nice shape, light set, silver scurf, FC=3.0                   |

<sup>1</sup>FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

NDTX059759-3RY/Y Pinto was the outstanding entry based on all factors.

Dalhart  
Table 4a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 7 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
CO05035-1PW/Y	WR	600.0	503.3	240.5	217.4	45.4	0.0	58.4	38.3	2.5
AC05175-3P/Y	WR	555.1	445.4	273.6	166.9	4.9	0.0	95.4	14.3	3.0
NDTX059759-3RY/Y Pinto	WR	440.5	383.6	233.5	138.6	11.5	0.0	56.9	0.0	4.0
AC03534-2R/Y	WR	427.7	362.1	186.0	166.9	9.3	2.6	63.0	0.0	3.6
ATTX98514-1R/Y	WR	383.4	338.2	200.0	138.2	0.0	0.0	45.2	0.0	3.5
COA07365-4RY	WR	365.7	191.6	175.5	16.1	0.0	0.0	171.9	2.2	3.4
BTX2103-1R/Y	TX-CO	314.8	261.2	166.7	87.1	7.3	0.0	53.6	0.0	3.5
Average		441.0	355.1	210.8	133.0	11.2	0.4	77.8	7.8	3.4
L.S.D. (.05)		45.7	50.6	40.1	38.6	ns	ns	35.1	12.6	0.1

<sup>1</sup> 1=very poor to 5= excellent

Dalhart  
Table 4b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 7 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
CO05035-1PW/Y	WR	83.9	40.1	36.2	7.6	0.0	9.7	6.4	1.057	12.6	Oblong	Red
AC05175-3P/Y	WR	80.2	49.3	30.1	0.9	0.0	17.2	2.6	1.055	12.3	Round	Red
NDTX059759-3RY/Y Pinto	WR	87.1	53.0	31.5	2.6	0.0	12.9	0.0	1.061	13.3	Oblong	Red
AC03534-2R/Y	WR	84.7	43.5	39.0	2.2	0.6	14.7	0.0	1.050	11.4	Oblong	Red
ATTX98514-1R/Y	WR	88.2	52.2	36.0	0.0	0.0	11.8	0.0	1.050	11.4	Oblong	Red
COA07365-4RY	WR	52.4	48.0	4.4	0.0	0.0	47.0	0.6	1.058	12.9	Oblong	Red
BTX2103-1R/Y	TX-CO	83.0	37.8	27.7	2.3	0.0	17.0	0.0	1.059	13.1	Oblong	Red
Average		79.9	46.3	29.3	2.2	0.1	18.6	1.4	1.056	12.4		
L.S.D. (.05)		8.3	6.8	7.2	ns	ns	8.3	1.9	0.005	0.9		

Dalhart  
Table 4c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 7 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
CO05035-1PW/Y	WR	10.4	4.2	100	1.5	4.8	4.5	4.5	0
AC05175-3P/Y	WR	11.7	3.5	100	1.5	4.4	3.3	4.2	15
NDTX059759-3RY/Y Pinto	WR	8.8	3.7	100	1.5	4.9	5.0	4.7	0
AC03534-2R/Y	WR	9.5	3.3	100	2.0	3.8	3.8	3.9	0
ATTX98514-1R/Y	WR	6.9	4.1	100	2.0	4.0	5.0	4.2	0
COA07365-4RY	WR	12.7	2.1	100	2.5	3.8	3.5	3.7	10
BTX2103-1R/Y	TX-CO	7.0	3.3	100	2.5	4.0	4.5	4.2	0
Average		9.6	3.4	100	1.9	4.2	4.2	4.2	4
L.S.D. (.05)		1.6	0.5	ns	0.1	0.1	0.1	0.1	5

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large



Dalhart  
Table 4d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 7 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
CO05035-1PW/Y	WR	2.0	3.0	1.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC05175-3P/Y	WR	3.0	2.0	1.0	3.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059759-3RY/Y Pinto	WR	3.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC03534-2R/Y	WR	3.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98514-1R/Y	WR	3.3	2.5	1.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COA07365-4RY	WR	3.0	2.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX2103-1R/Y	TX-CO	3.0	2.5	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.9	2.6	1.0	3.9	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Dalhart  
Table 4e.

Notes and general rating for all reps of 7 entries in the Western and Southwestern Regional  
Red/Yellow Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Notes Grading	General Rating Grading
CO05035-1PW/Y	WR	, , , rough, light purple skin, light flesh, silver scurf	2.5, 2.5, 2.5, 2.5
AC05175-3P/Y	WR	, , , deep eyes, heat sprouts, nice skin, flesh, and shape	3, 3, 3, 3
NDTX059759-3RY/Y Pinto	WR	, , , BOT, some flat, nice flesh, smooth skin	4, 4, 4, 4
AC03534-2R/Y	WR	nice size and shape, silver scurf, , ,	3.6, 3.6, 3.6, 3.6
ATTX98514-1R/Y	WR	, , light skin, nice flesh, skin, and shape, silver scurf,	3.5, 3.5, 3.5, 3.5
COA07365-4RY	WR	, , , small, nice shape, silver scurf	3.4, 3.4, 3.4, 3.4
BTX2103-1R/Y	TX-CO	nice shape, light set, silver scurf, , ,	3.5, 3.5, 3.5, 3.5

## Western Regional and Texas Advanced White/Yellow Trial, Dalhart

This trial consisted of thirteen entries, including the check varieties Yukon Gold and Sierra Gold.

Results were as follows: (Dalhart Tables 5a, 5b, 5c, 5d, and 5e)

- Actrice, Sierra Gold, and COTX03134-1W had the highest general rating and a best of trial designation (Table 5a and 5e).
- Electra had the highest total yield, while Actrice had the highest marketable yield, while TXWL-1 and Sierra Gold had the highest yield of over 10 oz. tubers (Table 5a).
- A06336-5Y had the highest yield of less than 4 oz. tubers, while 105/2/W/06 had the highest yield of culls/No. 2 tubers (Table 5a).
- Yukon Gold had the highest percentage of marketable yield, while A06336-5Y had the highest percentage of less than 4 oz. tubers (Table 5b).
- 105/2/W/06 had the highest percentage of culls/No. 2 tubers (Table 5b).
- Vitabella had the highest specific gravity (Table 5b).
- Electra and A06336-5Y had the highest average number of tubers per plant (Table 5c).
- Electra, KAG, and COTX03134-1W were the latest maturing entries, while Actrice, Sierra Gold, and A06336-5Y were the earliest maturing entries (Table 5c).
- Sierra Gold, A06336-5Y, A06336-2Y, and Yukon Gold had the darkest flesh color, while TXWL-1 had the deepest eyes (Table 5d).

### Comments on entries:

- |               |               |  |
|---------------|---------------|--|
| • Electra     | Oblong White  | yield++, nice shape and flesh, smooth skin, FC=3.3       |
| • 105/2/W/06  | Oblong White  | smooth skin, nice shape, white flesh, uniform, FC=1.0    |
| • Actrice     | Oblong White  | BOT, nice shape and size, smooth, nice flesh, FC=3.5     |
| • TXWL-1      | Long White    | red eyes, deep eyes, rough, oversized, FC=1.0            |
| • Sierra Gold | Oblong White  | BOT+, very nice skin, shape, and flesh, FC=3.5           |
| • Vitabella   | Oblong Russet | small, smooth skin, nice shape, some pear shaped, FC=2.5 |
| • A06336-5Y   | Round Red     | nice size small potato, nice shape and flesh, FC=3.5     |
| • BUTE        | Oblong White  | smooth skin, poor shape, white flesh, FC=1.0             |

- A06336-2Y      Round White      some pear shaped, smooth skin, small, nice flesh, red eyes, FC=3.5
- Maybell      Oblong White      poor shape, smooth skin, FC=3.0
- KAG      Oblong White      small, light flesh, smooth skin, FC=2.0
- Yukon Gold      Oblong White      , nice shape and flesh, scab, FC=3.5
- COTX03134-1W      Round White      BOT for small potato, white flesh, FC=1.0

<sup>1</sup>FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

Sierra Gold and ATX05202S-3W/Y were the outstanding entries based on all factors.

Dalhart Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 13 entries in the Western and Southwestern  
 Table 5a. Regional White/Yellow Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
Electra	Real	713.3	524.2	255.3	239.9	29.0	0.0	126.9	62.2	3.6
105/2/W/06	Real	710.0	494.9	265.4	220.4	9.2	2.2	99.4	113.5	3.6
Actrice	Real	686.9	576.5	251.8	285.0	39.7	0.0	85.5	24.9	3.8
TXWL-1	WR	672.2	566.2	123.0	246.5	196.7	51.7	37.8	16.5	2.0
Sierra Gold	TX-CO	531.3	457.4	137.5	171.3	148.6	21.0	42.5	10.4	4.5
Vitabella	Real	475.3	321.0	280.9	38.8	1.3	0.0	96.6	57.7	3.5
A06336-5Y	WR	468.9	261.4	220.9	40.4	0.0	0.0	202.4	5.1	3.6
BUTE	Real	446.5	275.8	214.5	61.3	0.0	0.0	122.0	48.7	3.4
A06336-2Y	WR	433.8	331.5	229.0	89.0	13.5	0.0	81.6	20.7	3.1
Maybell	Real	421.8	351.7	80.3	201.6	69.8	0.0	24.2	45.9	2.5
KAG	Real	397.0	299.7	180.6	115.7	3.5	0.0	62.0	35.3	3.5
Yukon Gold	WR	394.8	346.1	100.8	162.2	83.1	11.0	30.9	6.8	3.6
COTX03134-1W	WR	248.2	126.3	123.0	3.3	0.0	0.0	112.7	9.2	3.7
Average		507.7	379.4	189.5	144.2	45.7	6.6	86.5	35.1	3.4
L.S.D. (.05)		45.6	43.1	36.9	51.6	59.1	19.5	29.9	19.4	0.1

<sup>1</sup> 1=very poor to 5= excellent

Dalhart  
Table 5b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 13 entries in the Western and Southwestern Regional White/Yellow Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Electra	Real	73.5	35.8	33.6	4.1	0.0	17.8	8.7	1.040	9.7	Oblong	White
105/2/W/06	Real	69.7	37.4	31.0	1.3	0.3	14.0	16.0	1.050	11.4	Oblong	White
Actrice	Real	83.9	36.7	41.5	5.8	0.0	12.4	3.6	1.044	10.4	Oblong	White
TXWL-1	WR	84.2	18.3	36.7	29.3	7.7	5.6	2.5	1.051	11.7	Long	White
Sierra Gold	TX-CO	86.1	25.9	32.2	28.0	4.0	8.0	2.0	1.058	12.9	Oblong	Russet
Vitabella	Real	67.5	59.1	8.2	0.3	0.0	20.3	12.1	1.065	14.2	Oblong	White
A06336-5Y	WR	55.7	36.3	8.6	0.0	0.0	43.2	1.1	1.048	11.1	Round	White
BUTE	Real	61.8	48.0	13.7	0.0	0.0	27.3	10.9	1.045	10.6	Oblong	White
A06336-2Y	WR	76.4	52.8	20.5	3.1	0.0	18.8	4.8	1.056	12.6	Round	White
Maybell	Real	83.4	19.0	47.8	16.5	0.0	5.7	10.9	1.055	12.4	Oblong	White
KAG	Real	75.5	45.5	29.1	0.9	0.0	15.6	8.9	1.057	12.7	Oblong	White
Yukon Gold	WR	87.7	25.5	41.1	21.0	2.8	7.8	1.7	1.060	13.2	Oblong	White
COTX03134-1W	WR	50.9	49.6	1.3	0.0	0.0	45.4	3.7	1.059	13.1	Round	White
Average		73.6	37.7	26.6	8.5	1.1	18.6	6.7	1.053	12.0		
L.S.D. (.05)		5.9	7.4	9.1	10.7	3.4	4.9	4.5	0.005	1.0		

Dalhart  
Table 5c. Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 13 entries in the Western and Southwestern Regional White/Yellow Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
Electra	Real	15.3	3.4	100	2.0	4.8	5.0	4.5	0
105/2/W/06	Real	14.5	3.6	100	2.0	4.0	4.0	4.0	0
Actrice	Real	11.8	4.4	100	2.5	3.8	2.5	3.8	70
TXWL-1	WR	7.3	6.7	100	2.0	4.3	3.7	4.2	20
Sierra Gold	TX-CO	6.9	5.7	100	2.5	3.8	3.0	3.7	60
Vitabella	Real	12.6	2.7	100	1.5	4.5	3.6	4.4	25
A06336-5Y	WR	15.4	2.3	100	2.5	3.5	3.0	3.6	40
BUTE	Real	12.4	2.6	100	2.5	3.8	3.8	3.9	15
A06336-2Y	WR	10.2	3.1	100	2.5	4.2	3.7	4.2	10
Maybell	Real	6.1	5.0	100	2.5	4.0	3.5	4.0	50
KAG	Real	10.0	2.9	100	2.0	4.4	5.0	4.6	0
Yukon Gold	WR	5.1	5.6	100	1.5	4.5	3.5	4.2	50
COTX03134-1W	WR	10.8	1.8	100	2.0	4.2	5.0	4.0	0
Average		10.6	3.8	100	2.2	4.1	3.8	4.1	26
L.S.D. (.05)		2.5	0.7	ns	0.1	0.1	0.1	0.1	7

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart  
Table 5d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 13 entries in the Western and Southwestern Regional White/Yellow Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
Electra	Real	3.3	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
105/2/W/06	Real	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Actrice	Real	3.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXWL-1	WR	1.0	3.5	1.0	2.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Sierra Gold	TX-CO	3.5	3.0	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Vitabella	Real	2.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A06336-5Y	WR	3.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BUTE	Real	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A06336-2Y	WR	3.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Maybell	Real	3.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
KAG	Real	2.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Yukon Gold	WR	3.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX03134-1W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.5	2.7	1.2	3.8	1.2	5.0	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated



Dalhart  
Table 5e. Notes and general rating for all reps of 13 entries in the Western and Southwestern Regional White/Yellow Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Notes Grading	General Rating Grading
Electra	Real	yield++, nice shape and flesh, smooth skin, , ,	3.6, 3.6, 3.6, 3.6
105/2/W/06	Real	smooth skin, nice shape, white flesh, uniform, , ,	3.6, 3.6, 3.6, 3.6
Actrice	Real	, , BOT, nice shape and size, smooth, nice flesh,	3.8, 3.8, 3.8, 3.8
TXWL-1	WR	red eyes, deep eyes, rough, oversized, , ,	2, 2, 2, 2
Sierra Gold	TX-CO	, , BOT+, very nice skin, shape, and flesh,	4.5, 4.5, 4.5, 4.5
Vitabella	Real	, , , small, smooth skin, nice shape, some pear shaped	3.5, 3.5, 3.5, 3.5
A06336-5Y	WR	, nice size small potato, nice shape and flesh, ,	3.6, 3.6, 3.6, 3.6
BUTE	Real	, , smooth skin, poor shape, white flesh,	3.4, 3.4, 3.4, 3.4
A06336-2Y	WR	some pear shaped, smooth skin, small, nice flesh, red eyes, , ,	3.1, 3.1, 3.1, 3.1
Maybell	Real	, , , poor shape, smooth skin	2.5, 2.5, 2.5, 2.5
KAG	Real	, , , small, light flesh, smooth skin	3.5, 3.5, 3.5, 3.5
Yukon Gold	WR	, nice shape and flesh, scab, ,	3.6, 3.6, 3.6, 3.6
COTX03134-1W	WR	BOT for small potato, white flesh, , ,	3.7, 3.7, 3.7, 3.7

## Texas Advanced Chip Selection Trial, Dalhart

This trial consisted of seventy six entries, including the check varieties Atlantic and Snowden.

Results were as follows: (Dalhart Tables 6a, 6b, 6c, 6d, 6e, and 6f)

- COTX10079-11W, AORTX09037-4W/Y, and AORTX09033-11W were the outstanding entries for this trial based on general rating and best of trial designation for tuber and chip quality, while NDTX1244-3W/Y, AORTX09037-5W/Y, AORTX09037-1W, NDTX113467CB-1W, NDTX12203AB-1W, TX09396-1W, TX13565-1W, NDTX1246-5W, TX12483-5W, AORTX09144-2W, Waneta, TX13563-1W, and COTX12235-2W received best of trial designations for chip quality and also had over 90 percent good chips. (Tables 6a, 6e, and 6f).
- NDTX1244-3W/Y had the highest total yield, while TX12484-2W ZC had the highest marketable yield. NDTX1244-3W/Y had the highest yield of 4-6 oz. tubers (Table 6a).
- NDTX102514ABC-5W had the highest yield of less than 4 oz. tubers (Table 6a).
- COTX10079-11W had the highest percentage of marketable yield. COTX12428-1W had the highest percentage of 4-6 oz. tubers, while NDTX060700C-1W and TX13566-1W had the highest percentage of less than 4 oz. tubers (Table 6b).
- NDTX113467CB-1W had the highest specific gravity (Table 6b).
- AORTX09037-5W/Y and NDTX102514ABC-5W had the highest average number of tubers per plant (Table 6c).
- NDTX102796CbS-2W, TX12483-8W, NDTX102640Cb-1W, TX12483-5W, TX12483-6W, TX12486-1W, TX13563-1W, NDTX059828-2W, TX12483-4W, and WTX13073-1W were the latest maturing entries, while TX13585-1W, NDTX1292-1Ru, NDTX1246-7W, TX09429-1P/P, NDTX102852CB-4Ru, NDTX102852CB-3Ru, NDTX12203AB-1W, and COTX10079-11W were the earliest maturing entries (Table 6c).
- Atlantic had the highest percentage hollow heart (Table 6d).
- TX12484-2W ZC NDTX102514ABC-5W ATTX11484-3W NDTX1246-3W, TX09396-1W, and Atlantic had the highest percentage of internal brownspot (Table 6d).
- NDTX1244-3W/Y, AORTX09037-5W/Y, AORTX09037-1W, NDTX113467CB-1W, NDTX12203AB-1W, NDTX1246-5W, AORTX09144-2W, Waneta, COTX12235-2W, COTX10079-11W, AORTX09033-11W, TX12483-5W, TX13565-1W, AORTX09037-4W/Y, TX09396-1W,

COTX12428-1W, AORTX09033-4W, TX13563-1W, TX12483-4W, NDTX060700C-1W, and NDTX1292-1Ru had over 90% good chips (Table 6f).

Comments on entries:

- NDTX1244-3W/Y Round White nice, yield+, light yellow flesh, keep , CR=2.0, Chip Notes: BOT
- AORTX09037-5W/Y Round White nice shape, light yellow flesh, CR=1.0, Chip Notes: BOT, NICE
- TX12484-2W ZC Oblong White some rough, deep eyes, uniform, IBS, poor internals, CR=1.0, Chip Notes: Keep-
- AORTX09037-1W Round White smooth, uniform, light yellow flesh, very nice, CR=1.0, Chip Notes: BOT
- NDTX102514ABC-5W Round White yield++, poor internals, CR=1.0, Chip Notes: keep
- ATTX07042-3W/Y Oblong White smooth, keep, CR=2.0, Chip Notes: KEEP, YELLOW
- Atlantic Oblong Buff large tubers, poor internals, CR=1.0, Chip Notes:
- COTX10079-11W Round White nice, uniform, keep, BOT-, CR=1.0, Chip Notes: BOT, NICE
- NDTX113030C-3W Oblong White some flat, keep, CR=1.0, Chip Notes:
- AORTX09037-4W/Y Round White nice skin, BOT, CR=1.0, Chip Notes: BOT
- Snowden Round White nice size, some rough, CR=1.0, Chip Notes:
- NDTX102796CbS-2W Round White large tubers, nice shape, smooth, BOT, CR=1.0, Chip Notes:
- ATTX11484-3W Oblong White shatter bruise, poor internals++, rough, deep eyes, CR=1.0, Chip Notes: 1GH, KEEP
- NDTX113037C-3W Round White some flat, smooth, feathering, keep, CR=1.0, Chip Notes: keep-
- TX12483-8W Oblong White nice keep, CR=1.0, Chip Notes: BOT-, Keep, 1GH
- NDTX113467CB-1W Round White uniform, heavy set, keep, CR=1.0, Chip Notes: BOT++
- NDTX102640Cb-1W Round White nice shape, uniform, keep, CR=1.0, Chip Notes: keep-, 1GH
- AORTX09033-11W Round White very nice, uniform, BOT, CR=1.0, Chip Notes: BOT, Keep
- COTX12428-2W Round White nice shape, CR=1.0, Chip Notes: keep
- NDTX12203AB-1W Round White smooth, keep, CR=1.0, Chip Notes: BOT++

- TX13580-1W            Round White    sticky stolons, CR=1.0, Chip Notes: BOT
- NDTX1246-3W        Round White    too flat, IBS, poor internal, drop, CR=1.0, Chip Notes: keep, 1GH
- TX09396-1W        Oblong White   nice size, IBS, poor internal, drop, CR=1.0, Chip Notes: BOT- keep
- TX13565-1W        Round White    uniform, CR=1.0, Chip Notes: BOT, nice
- AORTX10247-1W/Y   Round White    small, nice yellow flesh, CR=2.0, Chip Notes: Keep, YELLOW
- TX03196-1W        Oblong White   too large, growth cracks++, ugly, drop, CR=1.0, Chip Notes: keep-
- AORTX09033-14W    Oblong White   smooth, some flat, deep eyes, CR=1.0, Chip Notes: BOT
- NDTX1246-5W        Round White    small, nice shape, mixed flesh, CR=3.0, Chip Notes: nice
- TX12483-5W        Round White    buff, russet skin, hollow heart, CR=1.0, Chip Notes: BOT
- NDTX102852CB-3Ru   Oblong White   nice shape, too large tubers, too oblong, CR=2.0, Chip Notes: drop, 2 sugar end
- NDTX1246-6W        Round Russet   small, nice shape, CR=1.0, Chip Notes: keep
- TX12484-3W ZC      Round White    uniform, CR=1.0, Chip Notes: keep
- COTX12428-1W      Round White    uniform, keep, CR=1.0, Chip Notes: keep
- TX12483-6W        Round White    buff russet skin, nice shape, CR=1.0, Chip Notes: keep
- ATX11354-1W        Oblong White   nice, keep, feathering, CR=1.0, Chip Notes: 1 SUGAR
- TX12484-4W ZC      Round White    rough, deep eyes, drop, CR=1.0, Chip Notes: keep
- TX13563-5W        Oblong White   variable size, buff skin, CR=1.0, Chip Notes: keep-
- TX12484-1W ZC      Oblong White   poor shape, too oblong, CR=1.0, Chip Notes: BOT
- NDTX102852CB-4Ru   Oblong Russet   russet skin, CR=1.0, Chip Notes: keep-, 1HH
- NDTX081648CB-1W   Round White    buff, nice shape++, CR=1.0, Chip Notes: keep
- AORTX09032-3W      Round White    nice, smooth, low yield, CR=2.0, Chip Notes: nice
- COTX12236-3W      Round White    nice, keep, CR=1.0, Chip Notes: BOT-
- AORTX09033-4W      Oblong White   smooth, some rough, CR=1.0, Chip Notes: NICE, KEEP, 2 MB
- TX12479-1W        Oblong White   large tubers, rough, some buff, CR=1.0, Chip Notes: keep, 1MB, 1ROT
- NDTX113029C-2W    Round White    nice round shape, uniform, heat sprouts, CR=1.0, Chip Notes: keep-
- TX13574-4W        Round White    nice shape, CR=1.0, Chip Notes: keep

- TX13578-4W Round White nice shape, CR=1.0, Chip Notes: keep-
- WTX10666-8W Round White variable size, low yield, CR=1.0, Chip Notes: drop
- AORTX09144-2W Round White uniform, nice shape, CR=1.0, Chip Notes: BOT
- TX12486-1W Oblong White large tubers, rough, drop, CR= 1.0, Chip Notes: 1scab, Keep-
- Waneta Oblong White some rough, CR=1.0, Chip Notes: BOT
- TX13563-1W Round White small, uniform, CR=1.0, Chip Notes: BOT
- WTX10646-2W Oblong White poor shape, smooth skin, growth cracks, drop, CR=1.0, Chip Notes: keep-, 2MB
- NDTX059828-2W Round White poor skin color, CR=1.0, Chip Notes: keep-
- NDTX12135-1W Round White low yield, CR=1.0, Chip Notes: keep
- TX05249-10W Round White smooth skin, nice shape, CR=1.0, Chip Notes: nice, BOT-
- TX09429-1P/P Oblong Purple nice skin color, CR=3.0, Chip Notes: NICE, Pu/Pu
- AORTX09037-3W/Y Round White smooth, light yellow flesh, CR=2.0, Chip Notes: NICE, YELLOW
- ATTX11476-11W Oblong White bad rep, small, CR=1.0, Chip Notes: Keep-
- NDTX113030C-10W Round White small, CR=2.0, Chip Notes: drop
- COTX12235-2W Round White nice, keep, CR=1.0, Chip Notes: KEEP
- NDTX1246-7W Round White yield+, nice shape, keep, CR=1.0, Chip Notes: BOT
- TX13563-3W Round White small, uniform, buff skin, CR=1.0, Chip Notes:
- TX12483-4W Round White nice size, deep eyes, CR=1.0, Chip Notes: BOT-, nice
- COTX12235-1W Oblong White nice round shape, BOT, CR=1.0, Chip Notes: NICE
- NDTX060700C-1W Round White very small, uniform, CR=1.0, Chip Notes: nice
- TX12479-16W Round White too oblong, nice shape, smooth, CR=1.0, Chip Notes: BOT-, 1GH
- WTX13068-1W Round White smooth, CR=1.0, Chip Notes: BOT-
- WTX13073-1W Oblong White buff russet skin, nice shape, yellow flesh, CR=1.0, Chip Notes: BOT-, 1GH
- TX13566-5W Round White smooth, small, CR=1.0, Chip Notes: keep, 1IBS
- NDTX12176AB-1Ru Round White smooth, CR=1.0, Chip Notes: nice
- TX05249-11W Round Russet nice shape, CR=1.0, Chip Notes: 1GH
- TX13566-1W Round White too small, CR=1.0, Chip Notes: keep-
- TX12474-1P/R Round Purple nice flesh and skin, some IBS, CR=3.0, Chip Notes: NICE, R/R, 6spots

- TX13585-1W                      Round White    small, uniform, low yield, drop, CR=1.0, Chip Notes:
- NDTX1292-1Ru                  Round White    russet, small, CR=1.0, Chip Notes: keep

<sup>1</sup>CR=chip color rating 1=light to 3= dark

Summary:

COTX10079-11W, AORTX09037-4W/Y, and AORTX09033-11W were the outstanding entries for this trial based on general rating and best of trial designation for tuber and chip quality, while NDTX1244-3W/Y, AORTX09037-5W/Y, AORTX09037-1W, NDTX113467CB-1W, NDTX12203AB-1W, TX09396-1W, TX13565-1W, NDTX1246-5W, TX12483-5W, AORTX09144-2W, Waneta, TX13563-1W, and COTX12235-2W received best of trial designations for chip quality and also had over 90 percent good chips.

Dalhart  
Table 6a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
NDTX1244-3W/Y	TXCH	654.5	512.5	295.2	149.2	68.1	0.0	142.0	0.0	3.6
AORTX09037-5W/Y	TXCH	653.8	493.4	259.9	142.0	91.5	0.0	160.3	0.0	3.7
TX12484-2W ZC	TXCH	633.3	533.3	190.3	217.1	125.9	5.3	94.6	0.0	3.4
AORTX09037-1W	NATCH	613.7	469.5	222.7	179.4	67.4	0.0	144.2	0.0	3.7
NDTX102514ABC-5W	TXCH	608.9	348.3	263.6	75.4	9.3	0.0	260.6	0.0	3.6
ATTX07042-3W/Y	TXCH	575.1	472.6	203.7	153.9	114.9	0.0	102.5	0.0	3.8
Atlantic	WR	571.6	458.7	177.2	190.9	90.6	7.1	105.8	0.0	3.5
COTX10079-11W	TXCH	555.1	493.8	131.2	232.1	130.5	9.3	52.0	0.0	3.8
NDTX113030C-3W	NATCH	541.9	434.9	211.2	141.5	82.2	0.0	107.1	0.0	3.5
AORTX09037-4W/Y	NATCH	540.3	390.4	180.1	150.6	59.7	0.0	149.9	0.0	3.8
Snowden	WR	535.7	391.7	220.2	137.1	34.4	0.0	144.0	0.0	3.4
NDTX102796CbS-2W	TXCH	525.3	456.6	121.3	207.4	127.9	5.7	63.0	0.0	3.7
ATTX11484-3W	TXCH	521.8	456.8	113.3	233.0	110.5	6.2	58.8	0.0	3.4
NDTX113037C-3W	NATCH	520.3	405.8	196.4	125.6	83.8	0.0	114.6	0.0	3.5
TX12483-8W	TXCH	516.1	454.6	109.8	204.4	140.4	7.9	53.6	0.0	3.8
NDTX113467CB-1W	TXCH	510.3	353.2	214.0	95.2	44.1	0.0	157.0	0.0	3.5
NDTX102640Cb-1W	TXCH	505.3	350.3	231.9	95.7	22.7	0.0	155.0	0.0	3.7
AORTX09033-11W	TXCH	494.4	335.5	198.0	106.3	31.1	0.0	158.9	0.0	3.9
COTX12428-2W	TXCH	493.4	404.1	80.5	225.5	98.1	0.0	89.3	0.0	3.6
NDTX12203AB-1W	TXCH	490.3	402.7	178.3	153.6	70.8	2.6	85.1	0.0	3.8
TX13580-1W	TXCH	486.5	339.7	195.8	98.5	45.4	0.0	146.8	0.0	3.4
NDTX1246-3W	TXCH	486.5	333.5	194.4	110.9	28.2	0.0	153.0	0.0	2.5
TX09396-1W	TXCH	485.4	410.5	80.3	193.8	136.4	22.9	52.0	0.0	3.3
TX13565-1W	TXCH	481.0	411.1	114.2	212.7	84.2	0.0	69.9	0.0	3.6
AORTX10247-1W/Y	NATCH	474.2	311.9	219.1	82.4	10.4	0.0	162.3	0.0	3.6
TX03196-1W	TXCH	472.0	404.5	41.7	123.0	239.8	47.0	20.5	0.0	2.0
AORTX09033-14W	TXCH	456.1	361.8	158.7	106.0	97.2	0.0	94.3	0.0	3.5
NDTX1246-5W	TXCH	449.5	306.0	155.9	102.9	47.2	0.0	143.5	0.0	3.6
TX12483-5W	TXCH	441.8	362.2	121.2	161.4	79.6	15.9	63.7	0.0	3.3
NDTX102852CB-3Ru	NATCH	440.9	363.1	59.1	154.3	149.7	34.8	43.0	0.0	3.5
NDTX1246-6W	TXCH	437.6	311.7	164.9	123.2	23.6	0.0	125.9	0.0	3.3
TX12484-3W ZC	TXCH	436.9	336.8	140.6	136.4	59.8	0.0	100.1	0.0	3.6
COTX12428-1W	TXCH	436.0	295.0	203.5	91.5	0.0	0.0	140.9	0.0	3.6
TX12483-6W	TXCH	427.0	326.5	175.5	125.9	25.1	0.0	100.5	0.0	3.6
ATX11354-1W	TXCH	420.8	326.0	138.9	125.0	62.0	0.0	94.8	0.0	3.6
TX12484-4W ZC	TXCH	407.8	335.5	110.2	129.8	95.5	10.8	61.5	0.0	2.0
TX13563-5W	TXCH	401.9	303.1	142.0	161.1	0.0	0.0	98.8	0.0	3.5
Average		539.0	417.0	184.1	156.6	76.3	2.7	119.3	0.0	3.6
L.S.D. (.05)		75.8	69.0	48.5	41.2	41.8	11.2	35.0	ns	0.3

<sup>1</sup> 1=very poor to 5= excellent

Dalhart  
Table 6 a. cont.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
TX12484-1W ZC	TXCH	400.1	316.3	106.0	162.0	48.3	9.2	74.7	0.0	3.5
NDTX102852CB-4Ru	NATCH	398.1	311.9	73.2	132.3	106.3	18.3	67.9	0.0	3.0
NDTX081648CB-1W	TXCH	392.6	335.1	91.7	168.0	75.4	2.4	55.1	0.0	3.5
AORTX09032-3W	NATCH	383.6	287.3	140.2	115.3	31.8	0.0	96.3	0.0	3.6
COTX12236-3W	TXCH	371.9	271.6	143.5	79.1	49.1	0.0	100.3	0.0	3.8
AORTX09033-4W	NATCH	367.5	269.0	80.2	109.8	79.1	19.0	79.4	0.0	3.4
TX12479-1W	TXCH	365.5	318.3	82.9	142.9	92.4	0.0	47.2	0.0	3.0
NDTX113029C-2W	TXCH	363.7	214.9	136.2	65.7	13.0	0.0	148.8	0.0	3.6
TX13574-4W	TXCH	363.5	278.9	129.6	101.0	48.3	0.0	84.6	0.0	3.7
TX13578-4W	TXCH	363.1	318.1	79.8	110.5	127.8	4.4	40.6	0.0	3.5
WTX10666-8W	NATCH	361.3	317.4	66.6	125.9	124.8	0.0	43.9	0.0	3.0
AORTX09144-2W	TXCH	356.0	242.3	134.2	96.6	11.5	0.0	113.7	0.0	3.6
TX12486-1W	TXCH	348.5	308.2	75.4	132.0	100.8	9.0	31.3	0.0	2.0
Waneta	TXCH	347.6	268.3	101.9	99.9	66.4	13.4	65.9	0.0	3.5
TX13563-1W	TXCH	343.4	204.3	96.6	76.1	31.5	0.0	139.1	0.0	3.5
WTX10646-2W	TXCH	336.4	194.6	103.8	49.2	41.5	0.0	141.8	0.0	2.0
NDTX059828-2W	TXCH	332.7	238.7	117.1	105.4	16.1	0.0	94.1	0.0	3.5
NDTX12135-1W	TXCH	331.6	254.0	102.5	40.3	111.3	0.0	77.6	0.0	3.3
TX05249-10W	TXCH	330.5	266.5	99.0	108.9	58.6	2.4	61.7	0.0	3.5
TX09429-1P/P	TXCH	330.0	233.7	116.0	104.3	13.4	0.0	96.3	0.0	3.5
AORTX09037-3W/Y	TXCH	328.7	254.8	122.4	106.9	25.4	0.0	73.9	0.0	3.6
ATTX11476-11W	NATCH	322.7	214.1	115.7	71.6	26.9	0.0	108.5	0.0	3.5
NDTX113030C-10W	NATCH	318.1	191.1	129.9	48.0	13.2	0.0	127.0	0.0	3.4
COTX12235-2W	TXCH	311.5	252.2	98.8	91.5	61.9	0.0	59.3	0.0	3.8
NDTX1246-7W	TXCH	306.8	235.7	114.9	79.8	41.0	0.0	71.0	0.0	3.7
TX13563-3W	TXCH	306.8	184.5	96.6	87.9	0.0	0.0	122.3	0.0	3.5
TX12483-4W	TXCH	304.9	242.5	86.6	102.5	53.4	2.6	59.8	0.0	3.5
COTX12235-1W	TXCH	303.8	251.3	69.7	87.3	94.3	0.0	52.5	0.0	3.6
NDTX060700C-1W	TXCH	297.6	108.5	74.1	34.4	0.0	0.0	189.1	0.0	3.7
TX12479-16W	TXCH	296.0	233.0	85.5	100.5	47.0	4.4	58.6	0.0	3.6
WTX13068-1W	TXCH	292.8	210.8	86.4	75.4	49.1	0.0	82.0	0.0	3.6
WTX13073-1W	TXCH	274.5	213.8	82.7	62.2	68.8	0.0	60.8	0.0	3.5
TX13566-5W	TXCH	269.4	203.3	78.6	55.3	69.4	0.0	66.1	0.0	3.4
NDTX12176AB-1Ru	TXCH	251.1	207.9	43.2	90.0	74.7	0.0	43.2	0.0	3.6
TX05249-11W	TXCH	246.7	194.7	46.1	90.0	58.6	9.2	42.8	0.0	3.4
TX13566-1W	TXCH	211.6	74.7	48.3	26.4	0.0	0.0	136.9	0.0	3.0
TX12474-1P/R	TXCH	192.2	115.1	66.1	43.2	5.9	0.0	77.1	0.0	3.0
Average		351.0	263.9	106.3	100.9	56.6	3.1	84.0	0.0	3.4
L.S.D. (.05)		75.8	69.0	48.5	41.2	41.8	11.2	35.0	ns	0.3

<sup>1</sup> 1=very poor to 5= excellent



Dalhart  
Table 6 a. cont.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
TX13585-1W	TXCH	142.0	68.1	43.2	24.9	0.0	0.0	73.9	0.0	3.6
NDTX1292-1Ru	TXCH	128.1	82.7	43.9	38.8	0.0	0.0	45.4	0.0	3.0
Average		135.1	75.4	43.6	31.8	0.0	0.0	59.7	0.0	3.3
L.S.D. (.05)		75.8	69.0	48.5	41.2	41.8	11.2	35.0	ns	0.3

<sup>1</sup> 1=very poor to 5= excellent

Dalhart  
Table 6b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
NDTX1244-3W/Y	TXCH	78.3	45.1	22.8	10.4	0.0	21.7	0.0	1.069	14.8	Round	White
AORTX09037-5W/Y	TXCH	75.5	39.8	21.7	14.0	0.0	24.5	0.0	1.071	15.1	Round	White
TX12484-2W ZC	TXCH	84.2	30.1	34.3	19.9	0.8	14.9	0.0	1.069	14.8	Oblong	White
AORTX09037-1W	NATCH	76.5	36.3	29.2	11.0	0.0	23.5	0.0	1.067	14.5	Round	White
NDTX102514ABC-5W	TXCH	57.2	43.3	12.4	1.5	0.0	42.8	0.0	1.067	14.5	Round	White
ATTX07042-3W/Y	TXCH	82.2	35.4	26.8	20.0	0.0	17.8	0.0	1.063	13.7	Oblong	White
Atlantic	WR	80.2	28.8	33.4	15.9	1.2	18.5	0.0	1.075	15.8	Oblong	Buff
COTX10079-11W	TXCH	89.0	23.6	41.8	23.5	1.7	9.4	0.0	1.058	12.9	Round	White
NDTX113030C-3W	NATCH	80.2	39.0	26.1	15.2	0.0	19.8	0.0	1.078	16.5	Oblong	White
AORTX09037-4W/Y	NATCH	72.3	33.3	27.9	11.0	0.0	27.7	0.0	1.072	15.3	Round	White
Snowden	WR	73.1	41.1	25.6	6.4	0.0	26.9	0.0	1.064	13.9	Round	White
NDTX102796CbS-2W	TXCH	86.9	23.1	39.5	24.4	1.1	12.0	0.0	1.058	12.8	Round	White
ATTX11484-3W	TXCH	87.5	21.7	44.7	21.2	1.2	11.3	0.0	1.069	14.8	Oblong	White
NDTX113037C-3W	NATCH	78.0	37.7	24.1	16.1	0.0	22.0	0.0	1.072	15.3	Round	White
TX12483-8W	TXCH	88.1	21.3	39.6	27.2	0.8	10.4	0.0	1.064	13.9	Oblong	White
NDTX113467CB-1W	TXCH	69.2	41.9	18.7	8.6	0.0	30.8	0.0	1.080	16.8	Round	White
NDTX102640Cb-1W	TXCH	69.3	45.9	18.9	4.5	0.0	30.7	0.0	1.063	13.8	Round	White
AORTX09033-11W	TXCH	67.9	40.1	21.5	6.3	0.0	32.1	0.0	1.077	16.3	Round	White
COTX12428-2W	TXCH	81.9	16.3	45.7	19.9	0.0	18.1	0.0	1.064	13.9	Round	White
NDTX12203AB-1W	TXCH	82.1	36.4	31.3	14.4	0.5	17.4	0.0	1.069	14.7	Round	White
TX13580-1W	TXCH	69.8	40.3	20.2	9.3	0.0	30.2	0.0	1.068	14.7	Round	White
NDTX1246-3W	TXCH	68.5	40.0	22.8	5.8	0.0	31.5	0.0	1.075	15.9	Round	White
TX09396-1W	TXCH	84.6	16.6	39.9	28.1	4.7	10.7	0.0	1.073	15.5	Oblong	White
TX13565-1W	TXCH	85.5	23.7	44.2	17.5	0.0	14.5	0.0	1.060	13.3	Round	White
AORTX10247-1W/Y	NATCH	65.8	46.2	17.4	2.2	0.0	34.2	0.0	1.071	15.2	Round	White
TX03196-1W	TXCH	85.7	8.8	26.1	50.8	10.0	4.3	0.0	1.056	12.5	Oblong	White
AORTX09033-14W	TXCH	79.3	34.8	23.2	21.3	0.0	20.7	0.0	1.071	15.1	Oblong	White
NDTX1246-5W	TXCH	68.1	34.7	22.9	10.5	0.0	31.9	0.0	1.070	15.0	Round	White
TX12483-5W	TXCH	82.0	27.4	36.5	18.0	3.6	14.4	0.0	1.072	15.4	Round	White
NDTX102852CB-3Ru	NATCH	82.4	13.4	35.0	34.0	7.9	9.8	0.0	1.055	12.3	Oblong	White
NDTX1246-6W	TXCH	71.2	37.7	28.1	5.4	0.0	28.8	0.0	1.062	13.7	Round	Russet
TX12484-3W ZC	TXCH	77.1	32.2	31.2	13.7	0.0	22.9	0.0	1.065	14.1	Round	White
COTX12428-1W	TXCH	67.7	46.7	21.0	0.0	0.0	32.3	0.0	1.076	16.0	Round	White
TX12483-6W	TXCH	76.5	41.1	29.5	5.9	0.0	23.5	0.0	1.069	14.8	Round	White
ATX11354-1W	TXCH	77.5	33.0	29.7	14.7	0.0	22.5	0.0	1.057	12.7	Oblong	White
TX12484-4W ZC	TXCH	82.3	27.0	31.8	23.4	2.6	15.1	0.0	1.062	13.6	Round	White
TX13563-5W	TXCH	75.4	35.3	40.1	0.0	0.0	24.6	0.0	1.060	13.2	Oblong	White
Average		77.4	33.9	29.2	14.2	0.5	22.1	0.0	1.069	14.7		
L.S.D. (.05)		6.9	8.6	7.9	8.8	2.8	6.9	ns	0.004	0.8		

Dalhart  
Table 6 b. cont.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
TX12484-1W ZC	TXCH	79.0	26.5	40.5	12.1	2.3	18.7	0.0	1.065	14.0	Oblong	White
NDTX102852CB-4Ru	NATCH	78.3	18.4	33.2	26.7	4.6	17.1	0.0	1.053	12.0	Oblong	Russet
NDTX081648CB-1W	TXCH	85.4	23.4	42.8	19.2	0.6	14.0	0.0	1.059	13.0	Round	White
AORTX09032-3W	NATCH	74.9	36.5	30.1	8.3	0.0	25.1	0.0	1.070	14.9	Round	White
COTX12236-3W	TXCH	73.0	38.6	21.3	13.2	0.0	27.0	0.0	1.063	13.8	Round	White
AORTX09033-4W	NATCH	73.2	21.8	29.9	21.5	5.2	21.6	0.0	1.066	14.2	Oblong	White
TX12479-1W	TXCH	87.1	21.7	39.1	25.3	0.0	12.9	0.0	1.070	15.0	Oblong	White
NDTX113029C-2W	TXCH	59.1	37.4	18.1	3.6	0.0	40.9	0.0	1.072	15.4	Round	White
TX13574-4W	TXCH	76.7	35.6	27.8	13.3	0.0	23.3	0.0	1.066	14.2	Round	White
TX13578-4W	TXCH	87.6	22.0	30.4	35.2	1.2	11.2	0.0	1.068	14.6	Round	White
WTX10666-8W	NATCH	87.8	18.4	34.9	34.5	0.0	12.2	0.0	1.073	15.6	Round	White
AORTX09144-2W	TXCH	68.1	37.7	27.1	3.2	0.0	31.9	0.0	1.070	15.0	Round	White
TX12486-1W	TXCH	88.4	21.6	37.9	28.9	2.6	9.0	0.0	1.059	13.1	Oblong	White
Waneta	TXCH	77.2	29.3	28.8	19.1	3.8	19.0	0.0	1.070	15.1	Oblong	White
TX13563-1W	TXCH	59.5	28.1	22.2	9.2	0.9	40.5	0.0	1.069	14.8	Round	White
WTX10646-2W	TXCH	57.8	30.8	14.6	12.4	0.0	42.2	0.0	1.062	13.5	Oblong	White
NDTX059828-2W	TXCH	71.7	35.2	31.7	4.8	0.0	28.3	0.0	1.055	12.3	Round	White
NDTX12135-1W	TXCH	76.6	30.9	12.1	33.6	0.0	23.4	0.0	1.072	15.3	Round	White
TX05249-10W	TXCH	80.6	30.0	32.9	17.7	0.7	18.7	0.0	1.068	14.7	Round	White
TX09429-1P/P	TXCH	70.8	35.2	31.6	4.0	0.0	29.2	0.0	1.059	13.0	Oblong	Purple
AORTX09037-3W/Y	TXCH	77.5	37.2	32.5	7.7	0.0	22.5	0.0	1.067	14.5	Round	White
ATTX11476-11W	NATCH	66.4	35.8	22.2	8.3	0.0	33.6	0.0	1.065	14.1	Oblong	White
NDTX113030C-10W	NATCH	60.1	40.9	15.1	4.1	0.0	39.9	0.0	1.074	15.8	Round	White
COTX12235-2W	TXCH	81.0	31.7	29.4	19.9	0.0	19.0	0.0	1.065	14.1	Round	White
NDTX1246-7W	TXCH	76.8	37.5	26.0	13.4	0.0	23.2	0.0	1.063	13.8	Round	White
TX13563-3W	TXCH	60.1	31.5	28.6	0.0	0.0	39.9	0.0	1.073	15.6	Round	White
TX12483-4W	TXCH	79.5	28.4	33.6	17.5	0.8	19.6	0.0	1.074	15.7	Round	White
COTX12235-1W	TXCH	82.7	23.0	28.7	31.0	0.0	17.3	0.0	1.063	13.8	Oblong	White
NDTX060700C-1W	TXCH	36.5	24.9	11.6	0.0	0.0	63.5	0.0	1.085	17.7	Round	White
TX12479-16W	TXCH	78.7	28.9	34.0	15.9	1.5	19.8	0.0	1.065	14.2	Round	White
WTX13068-1W	TXCH	72.0	29.5	25.8	16.8	0.0	28.0	0.0	1.075	15.9	Round	White
WTX13073-1W	TXCH	77.9	30.1	22.7	25.1	0.0	22.1	0.0	1.068	14.6	Oblong	White
TX13566-5W	TXCH	75.5	29.2	20.5	25.8	0.0	24.5	0.0	1.066	14.2	Round	White
NDTX12176AB-1Ru	TXCH	82.8	17.2	35.9	29.7	0.0	17.2	0.0	1.072	15.4	Round	White
TX05249-11W	TXCH	78.9	18.7	36.5	23.7	3.7	17.4	0.0	1.058	12.9	Round	Russet
TX13566-1W	TXCH	35.3	22.8	12.5	0.0	0.0	64.7	0.0	1.061	13.3	Round	White
TX12474-1P/R	TXCH	59.9	34.4	22.5	3.0	0.0	40.1	0.0	1.058	12.8	Round	Purple
Average		75.0	30.5	28.5	16.0	0.9	24.2	0.0	1.066	14.2		
L.S.D. (.05)		6.9	8.6	7.9	8.8	2.8	6.9	ns	0.004	0.8		

Dalhart  
Table 6 b. cont.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
TX13585-1W	TXCH	47.9	30.4	17.5	0.0	0.0	52.1	0.0	1.073	15.5	Round	White
NDTX1292-1Ru	TXCH	64.6	34.3	30.3	0.0	0.0	35.4	0.0	1.072	15.4	Round	White
Average		56.3	32.3	23.9	0.0	0.0	43.7	0.0	1.073	15.5		
L.S.D. (.05)		6.9	8.6	7.9	8.8	2.8	6.9	ns	0.004	0.8		

Dalhart  
Table 6c. Average number of tubers per plant, average tuber weight, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
NDTX1244-3W/Y	TXCH	13.7	3.5	100	100	2.0	4.8	4.5	4.6	0
AORTX09037-5W/Y	TXCH	16.8	3.1	92	92	3.0	4.0	4.5	3.9	0
TX12484-2W ZC	TXCH	10.0	4.8	98	98	1.5	4.5	4.0	4.3	0
AORTX09037-1W	NATCH	12.9	3.4	100	100	2.0	4.0	3.6	4.0	0
NDTX102514ABC-5W	TXCH	16.6	2.7	100	100	2.0	4.3	4.8	4.2	0
ATTX07042-3W/Y	TXCH	10.0	4.2	98	100	2.0	4.3	3.3	4.1	15
Atlantic	WR	9.6	4.3	96	100	2.0	4.5	4.0	4.5	10
COTX10079-11W	TXCH	7.2	5.8	96	98	2.5	4.0	3.0	4.0	25
NDTX113030C-3W	NATCH	10.4	3.8	100	100	2.0	4.8	4.8	4.5	0
AORTX09037-4W/Y	NATCH	11.4	3.0	100	125	1.5	4.7	4.4	4.5	0
Snowden	WR	10.7	3.6	100	100	1.5	4.4	4.5	4.5	0
NDTX102796CbS-2W	TXCH	8.2	5.0	88	93	1.5	4.8	5.0	4.5	0
ATTX11484-3W	TXCH	10.0	5.1	89	80	1.5	4.5	3.7	4.4	0
NDTX113037C-3W	NATCH	11.7	3.3	100	100	1.5	4.8	4.8	4.5	0
TX12483-8W	TXCH	7.0	5.4	100	100	2.0	4.3	5.0	4.3	0
NDTX113467CB-1W	TXCH	13.1	2.9	100	100	2.0	4.0	4.0	4.2	0
NDTX102640Cb-1W	TXCH	12.7	2.9	100	100	2.0	4.2	5.0	4.0	0
AORTX09033-11W	TXCH	12.4	2.9	100	100	2.0	4.2	3.7	4.1	0
COTX12428-2W	TXCH	7.3	4.9	100	100	1.5	4.4	3.8	4.3	10
NDTX12203AB-1W	TXCH	8.3	4.3	100	100	1.5	4.0	3.0	4.3	40
TX13580-1W	TXCH	13.9	2.5	83	100	1.5	4.8	4.8	4.5	0
NDTX1246-3W	TXCH	12.2	2.9	100	100	2.0	4.5	3.8	4.4	0
TX09396-1W	TXCH	6.1	6.1	98	98	1.5	4.8	4.5	4.5	0
TX13565-1W	TXCH	7.4	4.7	100	100	2.5	3.5	3.3	3.5	30
AORTX10247-1W/Y	NATCH	10.9	3.4	100	100	2.0	4.8	3.8	4.5	0
TX03196-1W	TXCH	5.2	8.4	83	83	1.5	4.8	3.5	4.5	15
AORTX09033-14W	TXCH	11.2	3.8	74	80	2.5	3.8	3.5	3.7	0
NDTX1246-5W	TXCH	10.2	3.4	100	100	2.5	3.5	3.5	3.7	25
TX12483-5W	TXCH	6.8	4.7	100	100	2.5	4.8	5.0	4.7	0
NDTX102852CB-3Ru	NATCH	5.4	6.6	94	94	1.5	4.5	3.0	4.3	30
NDTX1246-6W	TXCH	10.6	3.1	97	97	2.5	4.2	4.8	4.0	0
TX12484-3W ZC	TXCH	9.7	3.6	90	94	1.5	4.6	3.5	4.5	0
COTX12428-1W	TXCH	11.7	2.7	93	100	2.0	4.3	3.7	4.2	0
TX12483-6W	TXCH	9.6	3.2	100	100	1.5	4.5	5.0	4.5	0
ATX11354-1W	TXCH	8.7	3.5	100	100	2.5	3.7	4.5	3.5	0
TX12484-4W ZC	TXCH	7.5	5.1	78	82	2.5	4.3	4.0	4.2	0
TX13563-5W	TXCH	7.9	3.7	100	100	2.0	4.4	3.9	4.2	0
Average		10.8	3.9	98	99	1.9	4.4	4.1	4.3	5
L.S.D. (.05)		2.8	0.7	13	15	0.1	0.1	0.1	0.1	5

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart  
Table 6 c. cont.

Average number of tubers per plant, average tuber weight, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
TX12484-1W ZC	TXCH	7.7	4.1	93	93	2.0	4.0	4.0	4.0	0
NDTX102852CB-4Ru	NATCH	8.3	5.1	82	82	2.5	3.0	3.0	3.0	40
NDTX081648CB-1W	TXCH	6.0	4.7	98	100	2.0	4.5	3.5	4.3	15
AORTX09032-3W	NATCH	9.6	3.4	88	88	1.5	4.5	4.0	4.4	0
COTX12236-3W	TXCH	8.9	3.0	93	100	2.0	4.0	4.4	4.0	0
AORTX09033-4W	NATCH	6.6	4.4	93	93	2.5	3.9	3.6	3.8	10
TX12479-1W	TXCH	5.5	5.3	89	93	2.0	4.4	3.5	4.2	20
NDTX113029C-2W	TXCH	11.8	2.9	88	88	2.5	3.7	3.5	3.4	20
TX13574-4W	TXCH	8.4	3.2	100	100	2.5	3.8	3.5	3.8	0
TX13578-4W	TXCH	5.4	4.9	100	100	2.5	3.8	3.5	3.8	20
WTX10666-8W	NATCH	10.5	5.2	62	62	1.5	4.5	4.8	4.4	0
AORTX09144-2W	TXCH	9.7	2.6	100	100	2.0	4.0	3.3	4.0	20
TX12486-1W	TXCH	5.9	5.9	67	78	2.5	4.0	5.0	3.9	0
Waneta	TXCH	6.4	4.7	81	89	2.0	4.0	3.5	4.0	10
TX13563-1W	TXCH	9.0	2.8	100	100	2.0	4.4	5.0	4.2	0
WTX10646-2W	TXCH	7.0	4.2	78	87	1.5	4.0	4.8	4.0	0
NDTX059828-2W	TXCH	8.4	3.0	93	98	2.5	3.7	5.0	3.6	0
NDTX12135-1W	TXCH	7.0	3.7	93	93	1.5	3.8	4.0	3.8	0
TX05249-10W	TXCH	5.7	4.4	100	100	1.5	4.8	4.2	4.5	0
TX09429-1P/P	TXCH	8.1	2.9	100	100	2.5	3.7	3.0	3.7	50
AORTX09037-3W/Y	TXCH	10.6	3.3	89	73	1.5	4.7	4.8	4.4	0
ATTX11476-11W	NATCH	8.2	2.9	88	100	2.0	4.0	3.5	4.0	0
NDTX113030C-10W	NATCH	10.5	2.3	100	100	2.5	3.6	3.3	3.5	50
COTX12235-2W	TXCH	5.8	4.1	92	95	1.5	4.5	4.0	4.3	0
NDTX1246-7W	TXCH	7.2	3.1	100	100	2.5	4.0	3.0	4.0	35
TX13563-3W	TXCH	9.1	2.4	100	100	2.5	4.0	3.5	4.0	0
TX12483-4W	TXCH	5.2	4.3	100	100	2.0	4.6	5.0	4.6	0
COTX12235-1W	TXCH	5.6	4.6	83	83	2.0	4.0	3.8	4.0	0
NDTX060700C-1W	TXCH	11.3	1.9	100	100	2.5	4.0	5.0	4.0	0
TX12479-16W	TXCH	5.8	4.5	80	85	2.0	4.0	4.0	4.0	0
WTX13068-1W	TXCH	7.0	3.1	100	100	1.5	4.5	3.8	4.4	0
WTX13073-1W	TXCH	6.8	3.6	73	83	1.5	4.8	5.0	4.5	0
TX13566-5W	TXCH	5.2	3.5	100	110	2.5	4.0	3.5	4.0	15
NDTX12176AB-1Ru	TXCH	4.5	4.1	70	100	1.5	4.8	4.8	4.5	0
TX05249-11W	TXCH	4.4	4.5	85	87	2.5	3.8	3.3	3.9	25
TX13566-1W	TXCH	8.2	1.9	100	100	2.5	3.6	3.5	3.6	15
TX12474-1P/R	TXCH	7.0	2.5	83	83	2.5	4.0	4.0	4.0	0
Average		7.9	3.8	91	92	2.1	4.1	3.9	4.0	12
L.S.D. (.05)		2.8	0.7	13	15	0.1	0.1	0.1	0.1	5

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart  
Table 6 c. cont.

Average number of tubers per plant, average tuber weight, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
TX13585-1W	TXCH	5.8	1.8	67	100	2.0	3.8	3.0	3.8	25
NDTX1292-1Ru	TXCH	3.8	2.5	100	100	2.5	3.8	3.0	3.7	30
Average		4.8	2.1	83	100	2.3	3.8	3.0	3.8	28
L.S.D. (.05)		2.8	0.7	13	15	0.1	0.1	0.1	0.1	5

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart  
Table 6d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
NDTX1244-3W/Y	TXCH	1.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09037-5W/Y	TXCH	1.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12484-2W ZC	TXCH	1.0	2.5	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	30
AORTX09037-1W	NATCH	2.0	2.0	2.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102514ABC-5W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	30
ATTX07042-3W/Y	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Atlantic	WR	1.0	2.5	2.5	4.0	2.5	5.0	5.0	5.0	5.0	5.0	60	0	0	70
COTX10079-11W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113030C-3W	NATCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09037-4W/Y	NATCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Snowden	WR	1.0	2.0	2.5	3.5	2.5	5.0	5.0	5.0	5.0	5.0	10	0	0	0
NDTX102796CbS-2W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX11484-3W	TXCH	1.0	2.5	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	30
NDTX113037C-3W	NATCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.5	0	0	0	0
TX12483-8W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113467CB-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102640Cb-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09033-11W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX12428-2W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX12203AB-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13580-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX1246-3W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	50
TX09396-1W	TXCH	1.0	3.0	2.5	4.0	2.5	5.0	5.0	5.0	5.0	5.0	0	0	0	45
TX13565-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX10247-1W/Y	NATCH	2.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX03196-1W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09033-14W	TXCH	1.0	2.0	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX1246-5W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12483-5W	TXCH	1.0	2.5	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
NDTX102852CB-3Ru	NATCH	1.0	2.0	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX1246-6W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12484-3W ZC	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX12428-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12483-6W	TXCH	1.0	2.5	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX11354-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12484-4W ZC	TXCH	1.0	2.0	1.0	2.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13563-5W	TXCH	1.0	2.5	2.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.1	2.2	1.3	3.9	1.3	5.0	5.0	5.0	5.0	5.0	2	0	0	7

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated



Dalhart  
Table 6 d. cont.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
TX12484-1W ZC	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102852CB-4Ru	NATCH	1.0	3.0	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081648CB-1W	TXCH	1.0	2.0	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09032-3W	NATCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX12236-3W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09033-4W	NATCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12479-1W	TXCH	1.0	2.5	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113029C-2W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13574-4W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13578-4W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
WTX10666-8W	NATCH	1.0	2.0	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09144-2W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12486-1W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Waneta	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13563-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
WTX10646-2W	TXCH	1.0	3.0	1.0	4.0	1.0	4.0	4.8	4.0	5.0	5.0	0	0	0	0
NDTX059828-2W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX12135-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX05249-10W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09429-1P/P	TXCH	5.0	3.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09037-3W/Y	TXCH	1.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
ATTX11476-11W	NATCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	10
NDTX113030C-10W	NATCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX12235-2W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX1246-7W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13563-3W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12483-4W	TXCH	1.0	2.5	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX12235-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX060700C-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12479-16W	TXCH	1.0	2.0	2.5	4.0	2.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
WTX13068-1W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
WTX13073-1W	TXCH	2.0	2.0	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13566-5W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX12176AB-1Ru	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX05249-11W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13566-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12474-1P/R	TXCH	4.0	2.0	1.0	4.0	4.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.2	2.2	1.3	4.0	1.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Dalhart  
Table 6 d. cont.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
TX13585-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX1292-1Ru	TXCH	1.0	2.0	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	2.0	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Dalhart Notes and general rating for all reps of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-  
Table 6e.

Variety or Selection	Trial	Notes Grading	General Rating Grading
NDTX1244-3W/Y	TXCH	nice, yield+, light yellow flesh, keep , , ,	3.6, 3.5, 3.5, 3.6
AORTX09037-5W/Y	TXCH	nice shape, light yellow flesh, , ,	3.7, 3.7, 3.7, 3.7
TX12484-2W ZC	TXCH	some rough, deep eyes, uniform, IBS, poor internals, , ,	3.5, 3.3, 3.3, 3.5
AORTX09037-1W	NATCH	smooth, uniform, light yellow flesh, vey nice, , ,	3.7, 3.7, 3.7, 3.7
NDTX102514ABC-5W	TXCH	yield++, poor internals, , ,	3.6, 3.5, 3.5, 3.6
ATTX07042-3W/Y	TXCH	, , smooth, keep,	3.8, 3.8, 3.8, 3.8
Atlantic	WR	large tubers, poor internals, , ,	3.5, 3.5, 3.5, 3.5
COTX10079-11W	TXCH	, nice, uniform, keep, BOT-, , ,	3.8, 3.8, 3.8, 3.8
NDTX113030C-3W	NATCH	, some flat, keep, , ,	3.5, 3.5, 3.5, 3.5
AORTX09037-4W/Y	NATCH	nice skin, BOT, , ,	3.8, 3.8, 3.8, 3.8
Snowden	WR	nice size, some rough, , ,	3.4, 3.4, 3.4, 3.4
NDTX102796CbS-2W	TXCH	, , large tubers, nice shape, smooth, BOT,	3.8, 3.8, 3.6, 3.6
ATTX11484-3W	TXCH	, , , shatter bruise, poor internals++, rough, deep eyes	3.3, 3.4, 3.3, 3.4
NDTX113037C-3W	NATCH	, some flat, smooth, feathering, keep, , ,	3.4, 3.6, 3.4, 3.6
TX12483-8W	TXCH	nice keep, , ,	3.8, 3.8, 3.8, 3.8
NDTX113467CB-1W	TXCH	, uniform, heavy set, keep, , ,	3.5, 3.5, 3.5, 3.5
NDTX102640Cb-1W	TXCH	, , nice shape, uniform, keep,	3.6, 3.6, 3.7, 3.7
AORTX09033-11W	TXCH	, very nice, uniform, BOT, , ,	3.8, 4, 4, 3.8
COTX12428-2W	TXCH	nice shape, , ,	3.6, 3.6, 3.6, 3.6
NDTX12203AB-1W	TXCH	, smooth, keep, , ,	3.8, 3.8, 3.8, 3.8
TX13580-1W	TXCH	, , sticky stolons,	3.3, 3.3, 3.5, 3.5
NDTX1246-3W	TXCH	too flat, IBS, poor internal, drop, , ,	2.5, 2.5, 2.5, 2.5
TX09396-1W	TXCH	, , nice size, IBS, poor internal, drop,	3.3, 3.3, 3.3, 3.3
TX13565-1W	TXCH	, , uniform,	3.6, 3.6, 3.6, 3.6
AORTX10247-1W/Y	NATCH	, , small, nice yellow flesh,	3.6, 3.6, 3.5, 3.5
TX03196-1W	TXCH	too large, growth cracks++, ugly, drop, , ,	2, 2, 2, 2
AORTX09033-14W	TXCH	, , smooth, some flat, deep eyes,	3.6, 3.4, 3.6, 3.4
NDTX1246-5W	TXCH	, , small, nice shape, mixed flesh,	3.6, 3.6, 3.6, 3.6
TX12483-5W	TXCH	, , buff, russet skin, hollow heart,	3.5, 3.3, 3.3, 3
NDTX102852CB-3Ru	NATCH	, nice shape, too large tubers, too oblong, , ,	3.4, 3.6, 3.6, 3.3
NDTX1246-6W	TXCH	, , , small, nice shape	3.3, 3.3, 3.3, 3.3
TX12484-3W ZC	TXCH	, , uniform,	3.6, 3.6, 3.6, 3.6
COTX12428-1W	TXCH	uniform, keep, , ,	3.6, 3.6, 3.6, 3.6
TX12483-6W	TXCH	, , , buff russet skin, nice shape	3.6+, 3.6, 3.6, 3.6
ATX11354-1W	TXCH	nice, keep, feathering, , ,	3.7, 3.5, 3.5, 3.7
TX12484-4W ZC	TXCH	rough, deep eyes, drop, , ,	2, 2, 2, 2
TX13563-5W	TXCH	variable size, buff skin, , ,	3.5, 3.5, 3.5, 3.5

Dalhart Notes and general rating for all reps of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-  
Table 6 e. cont. 2016.

Variety or Selection	Trial	Notes Grading	General Rating Grading
TX12484-1W ZC	TXCH	, , , poor shape, too oblong	3.5, 3.5, 3.5, 3.5
NDTX102852CB-4Ru	NATCH	, , , russet skin	3, 3, 3, 3
NDTX081648CB-1W	TXCH	, , buff, nice shape++,	3.5, 3.5, 3.5, 3.5
AORTX09032-3W	NATCH	nice, smooth, low yield, , ,	3.6, 3.6, 3.6, 3.6
COTX12236-3W	TXCH	nice, keep, , ,	3.8, 3.8, 3.8, 3.8
AORTX09033-4W	NATCH	smooth, some rough, , ,	3.5, 3.5, 3.3, 3.3
TX12479-1W	TXCH	large tubers, rough, some buff, , ,	3, 3, 3, 3
NDTX113029C-2W	TXCH	nice round shape, uniform, heat sprouts, , ,	3.6, 3.6, 3.6, 3.6
TX13574-4W	TXCH	, , nice shape,	3.7, 3.7, 3.7, 3.7
TX13578-4W	TXCH	, , nice shape,	3.5, 3.5, 3.5, 3.5
WTX10666-8W	NATCH	variable size, low yield, , ,	3, 3, 3, 3
AORTX09144-2W	TXCH	, , , uniform, nice shape	3.6, 3.5, 3.6, 3.5
TX12486-1W	TXCH	, , , large tubers, rough, drop	2, 2, 2, 2
Waneta	TXCH	, , , some rough	3.5, 3.5, 3.4, 3.4
TX13563-1W	TXCH	small, uniform, , ,	3.5, 3.5, 3.5, 3.5
WTX10646-2W	TXCH	, , , poor shape, smooth skin, growth cracks, drop	2, 2, 2, 2
NDTX059828-2W	TXCH	, poor skin color, ,	3.5, 3.5, 3.5, 3.5
NDTX12135-1W	TXCH	, , low yield,	3.3, 3.3, 3.3, 3.3
TX05249-10W	TXCH	, , , smooth skin, nice shape	3.5, 3.5, 3.6, 3.5
TX09429-1P/P	TXCH	nice skin color, , ,	3.5, 3.5, 3.5, 3.5
AORTX09037-3W/Y	TXCH	smooth, light yellow flesh, , ,	3.6, 3.5, 3.5, 3.6
ATTX11476-11W	NATCH	, , , bad rep, small	3.5, 3.5, 3.5, 3.5
NDTX113030C-10W	NATCH	, , small,	3.4, 3.4, 3.4, 3.4
COTX12235-2W	TXCH	nice, keep, , ,	3.8, 3.8, 3.8, 3.8
NDTX1246-7W	TXCH	yeild+, nice shape, keep, , ,	3.7, 3.7, 3.7, 3.7
TX13563-3W	TXCH	small, uniform, buff skin, , ,	3.5, 3.5, 3.5, 3.5
TX12483-4W	TXCH	, , nice size, deep eyes,	3.5, 3.5, 3.5, 3.3
COTX12235-1W	TXCH	nice round shape, BOT, , ,	3.6, 3.6, 3.6, 3.6
NDTX060700C-1W	TXCH	very small, uniform, , ,	3.8, 3.8, 3.5, 3.6
TX12479-16W	TXCH	, , , too oblong, nice shape, smooth	3.6, 3.6, 3.5, 3.5
WTX13068-1W	TXCH	smooth, , ,	3.6, 3.6, 3.6, 3.6
WTX13073-1W	TXCH	buff russet skin, nice shape, yellow flesh, , ,	3.5, 3.5, 3.5, 3.5
TX13566-5W	TXCH	, , smooth, small,	3.4, 3.4, 3.4, 3.4
NDTX12176AB-1Ru	TXCH	smooth, , ,	3.6, 3.6, 3.6, 3.6
TX05249-11W	TXCH	, nice shape, ,	3.4, 3.5, 3.5, 3.3
TX13566-1W	TXCH	too small, , ,	3, 3, 3, 3
TX12474-1P/R	TXCH	, , , nice flesh and skin, some IBS	3, 3, 3, 3

Dalhart  
Table 6 e. cont.

Notes and general rating for all reps of 76 entries in the Texas Chip Trial grown near Dalhart,  
Texas-2016.

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Variety or Selection	Trial	Notes Grading	General Rating Grading
TX13585-1W	TXCH	small, uniform, low yield, drop, , ,	3.6, 3.6, 3.6, 3.6
NDTX1292-1Ru	TXCH	russet, small, , ,	3, 3, 3, 3

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Dalhart  
Table 6f. Specific gravity, percent solids, chip color rating, good chip bad chip ratio, notes, and percentage of Zebra Defect at chipping of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Gravity	% Solids	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect
NDTX1244-3W/Y	TXCH	1.069	14.8	2	20/0	BOT	0%
AORTX09037-5W/Y	TXCH	1.071	15.1	1	20/0	BOT, NICE	0%
TX12484-2W ZC	TXCH	1.069	14.8	1	10/9	Keep-	0%
AORTX09037-1W	NATCH	1.067	14.5	1	18/0	BOT	0%
NDTX102514ABC-5W	TXCH	1.067	14.5	1	15/6	keep	0%
ATTX07042-3W/Y	TXCH	1.063	13.7	2	14/6	KEEP, YELLOW	0%
Atlantic	WR	1.075	15.8	1	0/20		35%
COTX10079-11W	TXCH	1.058	12.9	1	19/1	BOT, NICE	0%
NDTX113030C-3W	NATCH	1.078	16.5	1	14/4		0%
AORTX09037-4W/Y	NATCH	1.072	15.3	1	20/2	BOT	0%
Snowden	WR	1.064	13.9	1	8/12		0%
NDTX102796CbS-2W	TXCH	1.058	12.8	1	13/8		0%
ATTX11484-3W	TXCH	1.069	14.8	1	16/4	1GH, KEEP	5%
NDTX113037C-3W	NATCH	1.072	15.3	1	9/11	keep-	0%
TX12483-8W	TXCH	1.064	13.9	1	17/3	BOT-, Keep, 1GH	0%
NDTX113467CB-1W	TXCH	1.080	16.8	1	20/0	BOT++	0%
NDTX102640Cb-1W	TXCH	1.063	13.8	1	13/8	keep-, 1GH	0%
AORTX09033-11W	TXCH	1.077	16.3	1	19/1	BOT, Keep	0%
COTX12428-2W	TXCH	1.064	13.9	1	17/4	keep	0%
NDTX12203AB-1W	TXCH	1.069	14.7	1	20/0	BOT++	0%
TX13580-1W	TXCH	1.068	14.7	1	16/4	BOT	0%
NDTX1246-3W	TXCH	1.075	15.9	1	17/3	keep, 1GH	0%
TX09396-1W	TXCH	1.073	15.5	1	18/2	BOT- keep	0%
TX13565-1W	TXCH	1.060	13.3	1	17/1	BOT, nice	0%
AORTX10247-1W/Y	NATCH	1.071	15.2	2	11/10	Keep, YELLOW	0%
TX03196-1W	TXCH	1.056	12.5	1	10/9	keep-	0%
AORTX09033-14W	TXCH	1.071	15.1	1	15/4	BOT	0%
NDTX1246-5W	TXCH	1.070	15.0	3	18/0	nice	0%
TX12483-5W	TXCH	1.072	15.4	1	19/1	BOT	0%
NDTX102852CB-3Ru	NATCH	1.055	12.3	2	5/15	drop, 2 sugar end	0%
NDTX1246-6W	TXCH	1.062	13.7	1	19/3	keep	0%
TX12484-3W ZC	TXCH	1.065	14.1	1	10/10	keep	0%
COTX12428-1W	TXCH	1.076	16.0	1	18/2	keep	0%
TX12483-6W	TXCH	1.069	14.8	1	16/4	keep	0%
ATX11354-1W	TXCH	1.057	12.7	1	13/7	1 SUGAR	0%
TX12484-4W ZC	TXCH	1.062	13.6	1	15/6	keep	0%
TX13563-5W	TXCH	1.060	13.2	1	17/3	keep-	0%

One .05" slice per tuber, at least 10 tubers per rep, three reps, 1 min 25 sec, 365°F corn oil.

<sup>1</sup>1=poor, 5=excellent

<sup>2</sup>1=light, 3+=very dark

<sup>3</sup>BOT=Best Of Trial, Vas=vascular heat necrosis, Dark=high sugars, BSB=blackspot bruise, HH=hollow heart, IBS=internal brownspot, SE=sugar ends, PB= pressure bruise, GH=greenheads, Z=zebra

Dalhart  
Table 6 f. cont.

Specific gravity, percent solids, chip color rating, good chip bad chip ratio, notes, and percentage of Zebra Defect at chipping of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Gravity	% Solids	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect
TX12484-1W ZC	TXCH	1.065	14.0	1	17/2	BOT	0%
NDTX102852CB-4Ru	NATCH	1.053	12.0	1	10/11	keep-, 1HH	0%
NDTX081648CB-1W	TXCH	1.059	13.0	1	12/8	keep	0%
AORTX09032-3W	NATCH	1.070	14.9	2	17/5	nice	0%
COTX12236-3W	TXCH	1.063	13.8	1	15/5	BOT-	0%
AORTX09033-4W	NATCH	1.066	14.2	1	18/2	NICE, KEEP, 2 MB	0%
TX12479-1W	TXCH	1.070	15.0	1	16/4	keep, 1MB, 1ROT	0%
NDTX113029C-2W	TXCH	1.072	15.4	1	8/12	keep-	0%
TX13574-4W	TXCH	1.066	14.2	1	15/5	keep	0%
TX13578-4W	TXCH	1.068	14.6	1	13/7	keep-	0%
WTX10666-8W	NATCH	1.073	15.6	1	4/17	drop	0%
AORTX09144-2W	TXCH	1.070	15.0	1	20/0	BOT	0%
TX12486-1W	TXCH	1.059	13.1	1	10/10	1scab, Keep-	0%
Waneta	TXCH	1.070	15.1	1	20/0	BOT	0%
TX13563-1W	TXCH	1.069	14.8	1	18/2	BOT	0%
WTX10646-2W	TXCH	1.062	13.5	1	11/8	keep-, 2MB	0%
NDTX059828-2W	TXCH	1.055	12.3	1	12/9	keep-	10%
NDTX12135-1W	TXCH	1.072	15.3	1	16/4	keep	0%
TX05249-10W	TXCH	1.068	14.7	1	16/4	nice, BOT-	0%
TX09429-1P/P	TXCH	1.059	13.0	3	13/8	NICE, Pu/Pu	0%
AORTX09037-3W/Y	TXCH	1.067	14.5	2	13/7	NICE, YELLOW	0%
ATTX11476-11W	NATCH	1.065	14.1	1	12/7	Keep-	0%
NDTX113030C-10W	NATCH	1.074	15.8	2	7/12	drop	0%
COTX12235-2W	TXCH	1.065	14.1	1	20/0	KEEP	0%
NDTX1246-7W	TXCH	1.063	13.8	1	14/7	BOT	5%
TX13563-3W	TXCH	1.073	15.6	1	15/5		25%
TX12483-4W	TXCH	1.074	15.7	1	18/2	BOT-, nice	0%
COTX12235-1W	TXCH	1.063	13.8	1	15/5	NICE	0%
NDTX060700C-1W	TXCH	1.085	17.7	1	18/2	nice	10%
TX12479-16W	TXCH	1.065	14.2	1	17/3	BOT-, 1GH	0%
WTX13068-1W	TXCH	1.075	15.9	1	12/8	BOT-	0%
WTX13073-1W	TXCH	1.068	14.6	1	15/5	BOT-, 1GH	0%
TX13566-5W	TXCH	1.066	14.2	1	15/5	keep, 1IBS	0%
NDTX12176AB-1Ru	TXCH	1.072	15.4	1	12/6	nice	0%
TX05249-11W	TXCH	1.058	12.9	1	11/9	1GH	10%
TX13566-1W	TXCH	1.061	13.3	1	15/5	keep-	0%
TX12474-1P/R	TXCH	1.058	12.8	3	12/8	NICE, R/R, 6spots	0%

One .05" slice per tuber, at least 10 tubers per rep, three reps, 1 min 25 sec, 365°F corn oil.

<sup>1</sup>1=poor, 5=excellent

<sup>2</sup>1=light, 3+=very dark

<sup>3</sup>BOT=Best Of Trial, Vas=vascular heat necrosis, Dark=high sugars, BSB=blackspot bruise, HH=hollow heart, IBS=internal brownspot, SE=sugar ends, PB= pressure bruise, GH=greenheads, Z=zebra

Dalhart  
Table 6 f. cont.

Specific gravity, percent solids, chip color rating, good chip bad chip ratio, notes, and percentage of Zebra Defect at chipping of 76 entries in the Texas Chip Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Gravity	% Solids	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect
TX13585-1W	TXCH	1.073	15.5	1	16/4		0%
NDTX1292-1Ru	TXCH	1.072	15.4	1	18/2	keep	0%

One .05" slice per tuber, at least 10 tubers per rep, three reps, 1 min 25 sec, 365°F corn oil.

<sup>1</sup>1=poor, 5=excellent

<sup>2</sup>1=light, 3+=very dark

<sup>3</sup>BOT=Best Of Trial, Vas=vascular heat necrosis, Dark=high sugars, BSB=blackspot bruise, HH=hollow heart, IBS=internal brownspot, SE=sugar ends, PB= pressure bruise, GH=greenheads, Z=zebra



## **2016 Chip Selections Trial, Dalhart**

The trial consisted of 191 entries. The following 22 clones (COTX13366-1W, NDTX12243YC-2W, NDTX14311CAB-1W, NDTX14352ABY-1W, NDTX14362AB-1W, NDTX14467CAB-2W, NDTX1446CB-2W, NDTX14475-1W, NDTX1462ABC-1W, NDTXTX1463AB-1W, NDTXTX1463AB-12W, NDTXTX1463AB-16W, NDTXTX1463AB-17W, NDTXTX1463AB-19W, NDTXTX1463AB-4W, ORTX14SP113-3W, TX14668-3W ZC, TX14681-4W, TX14695-2W ZC, TX14697-5W, TX14710-4W ZC, and TX14710-7W ZC) will be advanced in 2017 (Table 7).

Dalhart  
Table 7

Inventory weight and Good chip/Bad Chip of 22 entries to be advanced from the 2015 Chip Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Inventory Weight	Good chip/Bad Chip
COTX13366-1W	SELCH	9.3	5/0
NDTX12243YC-2W	SELCH	13.5	2/3
NDTX14311CAB-1W	SELCH	12.2	5/0
NDTX14352ABY-1W	SELCH	11.3	3/3
NDTX14362AB-1W	SELCH	4.8	4/1
NDTX14467CAB-2W	SELCH	13.1	0/5
NDTX1446CB-2W	SELCH	18	3/2
NDTX14475-1W	SELCH	6.1	2/3
NDTX1462ABC-1W	SELCH	10.2	3/2
NDTXX1463AB-1W	SELCH	10.1	5/0
NDTXX1463AB-12W	SELCH	18.8	0/5
NDTXX1463AB-16W	SELCH	21.9	4/1
NDTXX1463AB-17W	SELCH	13.4	4/1
NDTXX1463AB-19W	SELCH	11	3/2
NDTXX1463AB-4W	SELCH	11.1	3/2
ORTX14SP113-3W	SELCH	11.7	2/2
TX14668-3W ZC	SELCH	17.7	6/1
TX14681-4W	SELCH	7.3	1/4
TX14695-2W ZC	SELCH	17.8	3/0
TX14697-5W	SELCH	13.9	4/1
TX14710-4W ZC	SELCH	6.2	3/3
TX14710-7W ZC	SELCH	17.8	4/1

## Texas Advanced Russet Selection Trial, Dalhart

The trial consisted of fourteen entries, including the check variety Russet Norkotah.

Results were as follows: (Dalhart Tables 8a, 8b, 8c, 8d, and 8e)

- ATX10675-1Ru, Stampede Russet, and COTX10080-2Ru were the outstanding entries for this trial based on general rating and best of trial designation (Tables 8a and 8e).
- NDTX12180ABC-1W had the highest total and marketable yield, while COTX10141-11Ru had the highest yield. COTX12226-1Ru had the highest yield of over 10 oz. tubers (Table 8a).
- Stampede Russet had the highest yield of less than 4 oz. tubers, while Russet Norkotah had the highest yield of culls/No.2 tubers (Table 8a).
- COTX12370-2Ru had the highest percentage of marketable yield, while COTX10141-11Ru had the highest percentage of over 18 oz. tubers (Table 8b).
- Stampede Russet had the highest percentage of less than 4 oz. tubers, while Russet Norkotah had the highest percentage of culls/No. 2 tubers (Table 8b).
- NDTX12180ABC-1W, TX13590-9Ru, COTX12370-2Ru, COTX10141-11Ru, and COTX10141-12Ru had the highest specific gravity, while TX13512-1Ru had very low gravity (Table 8b).
- NDTX12180ABC-1W and COTX12370-2Ru were the latest maturing entries, while COTX10010-1Ru, ATX11952-1Ru, and ATX84378-6Ru were the earliest maturing entries (Table 8c).

### Comments on entries:

- NDTX12180ABC-1W Round White round white, feathering, drop
- COTX12226-1Ru Long Russet curved, some rough, long flat, poor internals, drop+++
- ATX10675-1Ru Long Russet very nice shape and skin, blocky, BOT-
- TX13590-9Ru Long Russet blocky, nice skin and shape
- COTX10010-1Ru Long Russet curved, skinny, pointed, IBS, drop++
- Russet Norkotah Long Russet skinny, curved, variable size
- ATX11952-1Ru Long Russet some rough, skinny
- COTX10080-2Ru Long Russet smooth, nice skin and shape, BOT
- Stampede Russet Long Russet blocky, fat tubers, nice shape, BOT-
- COTX12370-2Ru Long Russet blocky, poor shape, pointed
- COTX10141-11Ru Long Russet blocky, oversized, some rough, no hollow heart on large tubers

- ATX84378-6Ru Long Russet flat, rough, blocky, poor shape, drop??
- TX13512-1Ru Long Russet oblong to round, blocky, fat tubers, nice shape, hollow heart
- COTX10141-12Ru Long Russet rough, oversized, light set, IBS

Summary:

ATX10675-1Ru was the outstanding entry in this trial based on all factors.

Dalhart  
Table 8a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 14 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
NDTX12180ABC-1W	TXRU	759.6	624.3	142.8	392.6	89.0	22.0	98.5	14.8	2.5
COTX12226-1Ru	TXRU	643.0	469.1	67.4	233.2	168.6	99.4	65.7	8.8	3.4
ATX10675-1Ru	TXRU	604.3	491.8	86.0	266.5	139.3	31.1	38.4	43.0	3.8
TX13590-9Ru	TXCH	569.6	440.0	108.4	183.8	147.9	10.2	92.2	27.1	3.8
COTX10010-1Ru	TXRU	564.7	412.4	93.5	208.9	110.1	20.3	107.1	24.9	3.3
Russet Norkotah	WR	550.5	361.4	126.9	147.9	86.6	17.3	121.8	50.0	3.5
ATX11952-1Ru	TXRU	547.4	386.5	81.3	157.6	147.7	62.6	71.9	26.4	3.5
COTX10080-2Ru	TXRU	537.2	411.4	142.6	192.0	76.9	30.9	94.8	0.0	4.0
Stampede Russet	TXRU	520.2	376.1	90.6	201.3	84.2	20.9	123.2	0.0	3.9
COTX12370-2Ru	TXRU	496.7	429.7	70.8	214.5	144.5	7.7	59.3	0.0	3.3
COTX10141-11Ru	TXRU	475.9	334.1	50.8	156.2	127.1	118.1	20.7	2.9	3.5
ATX84378-6Ru	TXRU	362.0	303.1	58.6	128.1	116.4	12.6	46.3	0.0	3.0
TX13512-1Ru	TXRU	334.2	262.6	108.2	107.3	47.2	6.6	65.0	0.0	3.8
COTX10141-12Ru	TXRU	293.6	194.5	25.1	87.1	82.2	65.6	23.2	10.2	3.3
Average		518.5	392.7	89.5	191.2	112.0	37.5	73.4	14.9	3.5
L.S.D. (.05)		62.7	54.4	43.0	54.5	40.4	46.1	42.1	28.0	0.2

<sup>1</sup> 1=very poor to 5= excellent

Dalhart  
Table 8b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 14 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
NDTX12180ABC-1W	TXRU	82.2	18.8	51.7	11.7	2.9	13.0	2.0	1.071	15.2	Round	White
COTX12226-1Ru	TXRU	73.0	10.5	36.3	26.2	15.5	10.2	1.4	1.068	14.7	Long	Russet
ATX10675-1Ru	TXRU	81.4	14.2	44.1	23.0	5.1	6.4	7.1	1.061	13.4	Long	Russet
TX13590-9Ru	TXCH	77.2	19.0	32.3	26.0	1.8	16.2	4.8	1.072	15.4	Long	Russet
COTX10010-1Ru	TXRU	73.0	16.6	37.0	19.5	3.6	19.0	4.4	1.057	12.7	Long	Russet
Russet Norkotah	WR	65.7	23.1	26.9	15.7	3.1	22.1	9.1	1.055	12.3	Long	Russet
ATX11952-1Ru	TXRU	70.6	13.4	28.8	27.0	11.4	13.1	4.8	1.060	13.2	Long	Russet
COTX10080-2Ru	TXRU	76.6	26.5	35.7	14.3	5.8	17.6	0.0	1.058	12.8	Long	Russet
Stampede Russet	TXRU	72.3	17.4	38.7	16.2	4.0	23.7	0.0	1.059	13.1	Long	Russet
COTX12370-2Ru	TXRU	86.5	14.2	43.2	29.1	1.5	11.9	0.0	1.073	15.5	Long	Russet
COTX10141-11Ru	TXRU	70.2	10.7	32.8	26.7	24.8	4.4	0.6	1.071	15.2	Long	Russet
ATX84378-6Ru	TXRU	83.7	16.2	35.4	32.2	3.5	12.8	0.0	1.062	13.6	Long	Russet
TX13512-1Ru	TXRU	78.6	32.4	32.1	14.1	2.0	19.4	0.0	1.046	10.7	Long	Russet
COTX10141-12Ru	TXRU	66.3	8.6	29.7	28.0	22.4	7.9	3.5	1.070	15.0	Long	Russet
Average		75.5	17.3	36.0	22.1	7.7	14.1	2.7	1.063	13.8		
L.S.D. (.05)		8.9	8.8	10.1	7.7	7.8	8.5	4.6	0.005	0.9		

Dalhart  
Table 8c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 14 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
NDTX12180ABC-1W	TXRU	10.9	5.1	100	2.0	4.5	4.8	4.4	0
COTX12226-1Ru	TXRU	6.2	7.5	100	1.8	4.6	3.8	4.4	15
ATX10675-1Ru	TXRU	6.1	7.2	100	1.8	3.9	3.8	3.9	15
TX13590-9Ru	TXCH	5.2	8.0	100	1.5	4.5	3.8	4.2	35
COTX10010-1Ru	TXRU	7.5	5.5	100	2.0	3.7	1.5	3.7	100
Russet Norkotah	WR	7.9	5.1	100	2.5	3.6	3.0	3.7	70
ATX11952-1Ru	TXRU	5.8	6.9	100	2.0	3.8	2.5	3.8	25
COTX10080-2Ru	TXRU	8.0	5.0	100	1.8	4.1	4.4	4.2	5
Stampede Russet	TXRU	7.8	4.9	100	2.0	3.8	3.0	4.0	65
COTX12370-2Ru	TXRU	5.8	6.4	100	1.5	4.3	4.5	4.3	5
COTX10141-11Ru	TXRU	4.0	8.9	98	1.8	3.9	3.5	3.9	50
ATX84378-6Ru	TXRU	4.2	6.4	100	2.0	3.6	2.0	3.6	90
TX13512-1Ru	TXRU	5.4	4.5	100	2.5	3.3	3.5	3.4	50
COTX10141-12Ru	TXRU	2.5	8.8	100	1.5	4.2	3.3	4.0	55
Average		6.2	6.4	100	1.9	4.0	3.4	3.9	41
L.S.D. (.05)		1.2	1.1	ns	0.4	0.3	0.1	0.2	5

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart  
Table 8d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 14 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
NDTX12180ABC-1W	TXRU	1.0	2.0	2.0	4.0	1.0	5.0	5.0	5.0	5.0	3.0	0	0	0	0
COTX12226-1Ru	TXRU	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	45
ATX10675-1Ru	TXRU	1.0	3.8	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13590-9Ru	TXCH	1.0	3.5	4.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10010-1Ru	TXRU	1.0	4.0	3.8	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	20
Russet Norkotah	WR	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX11952-1Ru	TXRU	1.0	4.0	3.8	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10080-2Ru	TXRU	1.0	4.0	4.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Stampede Russet	TXRU	1.0	3.5	3.8	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX12370-2Ru	TXRU	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10141-11Ru	TXRU	1.0	4.0	4.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX84378-6Ru	TXRU	1.0	4.0	3.8	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13512-1Ru	TXRU	1.0	3.5	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10141-12Ru	TXRU	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	20
Average		1.0	3.7	3.8	4.0	3.7	5.0	5.0	5.0	5.0	4.9	0	0	0	6

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated



Dalhart  
Table 8e.

Notes and general rating for all reps of 14 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Notes Grading	General Rating Grading
NDTX12180ABC-1W	TXRU	round white, feathering, drop, , , , , curved, some rough, long flat, poor internals,	2.5, 2.5, 2.5, 2.5
COTX12226-1Ru	TXRU	drop+++,	3.4, 3.4, 3.3, 3.4
ATX10675-1Ru	TXRU	, , very nice shape and skin, blocky, BOT-,	3.7, 3.8, 3.8, 4
TX13590-9Ru	TXCH	blocky, nice skin and shape, , ,	3.8, 3.8, 3.8, 3.8
COTX10010-1Ru	TXRU	, , curved, skinny, pointed, IBS, drop++,	3.3, 3.3, 3.3, 3.3
Russet Norkotah	WR	skinny, curved, variable size, , ,	3.5, 3.6, 3.4, 3.5
ATX11952-1Ru	TXRU	some rough, skinny, , ,	3.5, 3.5, 3.4, 3.5
COTX10080-2Ru	TXRU	, smooth, nice skin and shape, BOT, ,	4, 4, 4, 4
Stampede Russet	TXRU	blocky, fat tubers, nice shape, BOT-, , ,	4, 3.9, 4, 3.5
COTX12370-2Ru	TXRU	, , , blocky, poor shape, pointed , , , blocky, oversized, some rough, no hollow heart on	3.3, 3.3, 3.3, 3.3
COTX10141-11Ru	TXRU	large tubers	3.6, 3.4, 3.6, 3.4
ATX84378-6Ru	TXRU	, flat, rough, blocky, poor shape, drop??, , , , , oblong to round, blocky, fat tubers, nice shape,	3, 3, 3, 3
TX13512-1Ru	TXRU	hollow heart	3.8, 3.8, 3.8, 3.8
COTX10141-12Ru	TXRU	, rough, oversized, light set, IBS, ,	3.5, 3, 3.5, 3

## **2016 Russet Selections Trial, Dalhart**

The trial consisted of 97 entries of which (ATX12015-2Ru, ATX12058-1Ru, COTX13215-1Ru, COTX13215-2Ru, COTX13413-1Ru, NDTX12237Y-1Ru/Y, NDTX12237Y-3Ru, NDTX12237Y-7Ru/Y, ORTX14SP017-2Ru, TX14596-1Ru, TX14605-4Ru, and TX14607-4Ru) will be advanced in 2016 (Table 9).

Dalhart  
Table 9

Inventory weight and notes of 12 entries to be advanced from the 2015 Russet Selection Trial grown near Dalhart, Texas-2017.

Variety or Selection	Trial	Inventory Weight
ATX12015-2Ru	15SEL324	31
ATX12058-1Ru	15SEL325	13.5
COTX13215-1Ru	15SEL475	4.9
COTX13215-2Ru	15SEL476	21.3
COTX13413-1Ru	15SEL473	14.9
NDTX12237Y-1Ru/Y	15SEL411	17.3
NDTX12237Y-3Ru	15SEL413	1.8
NDTX12237Y-7Ru/Y	15SEL417	15.8
ORTX14SP017-2Ru	15SEL096	13.7
TX14596-1Ru	15SEL210	13.4
TX14605-4Ru	15SEL273	8.8
TX14607-4Ru	15SEL269	3.9

## Texas Advanced Red Selection Trial, Dalhart

This trial consisted of fourteen entries and the check variety Red LaSoda.

Results were as follows: (Dalhart Tables 10a, 10b, 10c, 10d, and 10e)

- BTX2332-1R and COTX07054-2R were the outstanding entries based on general rating and best of trial designation (Tables 10a, and 10e).
- ATX08121-5R had the highest total, marketable and yield of 4-6 oz. tubers (Table 10a).
- Red LaSoda had the highest yield of over 10 oz. tubers (Table 10a).
- TX12472-4R had the highest yield of less than 4 oz. tubers, while TX13579-1R/Y had the highest yield of culls/No. 2 tubers (Table 10a).
- BTX2332-1R had the highest percentage marketable yield, while ATTX05186-2R and TX13524-2R had the highest percentage of 4-6 oz. TX12472-4R had the highest percentage of less than 4 oz. tubers, while TX13579-1R/Y had the highest percentage of culls/No. 2 tubers. (Table 10b).
- TX12472-4R had the highest specific gravity (Table 10b)
- Red LaSoda, TX12472-4R, NDTX050169-1R, and TX13579-1R/Y were the latest maturing entries, while ATTX05186-2R and TX11448-2R were the earliest maturing entries (Table 10c).

### Comments on entries:

- ATX08121-5R      Oblong Red      light skin, nice shape, silver scurf
- Red LaSoda      Oblong Red      yield++, deep eyes, silver scurf
- NDTX092231C-1R      Oblong Red      poor shape, too oblong, nice color, small, drop
- TX12472-4R      Round Red      BOT, light skin, nice shape, heavy set, silver scurf
- BTX2332-1R      Oblong Red      nice shape, large tubers, nice size, silver scurf, BOT-
- NDTX050070-1R      Oblong Red      poor shape, small, nice skin color, silver scurf
- COTX07054-2R      Oblong Red      keep, BOT-, nice shape, uniform, silver scurf
- NDTX050169-1R      Round Red      dark red skin color, sticky stolons, silver scurf
- TX13524-1R      Oblong Red      nice shape, poor internals, silver scurf
- ATTX05186-2R      Oblong Red      nice, small, light set, uniform, silver scurf
- TX11448-2R      Oblong Red      small uniform, silver scurf
- TX13579-1R/Y      Oblong Red      growth cracks, light yellow flesh, silver scurf, drop

- TX13524-2R Oblong Red keep, nice color, silver scurf
- NDTX4784-7R Oblong Red low yield, nice shape and skin, silver scurf

Summary:

BTX2332-1R and COTX07054-2R were the outstanding entries for this trial based on all factors.

Dalhart  
Table 10a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 14 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
ATX08121-5R	TXRD	754.4	630.2	238.5	281.9	109.8	0.0	119.9	4.4	3.4
Red LaSoda	WR	699.9	606.4	221.1	215.7	169.6	12.4	81.0	0.0	3.3
NDTX092231C-1R	TXRD	615.1	493.4	246.2	215.7	31.5	0.0	112.0	9.7	3.0
TX12472-4R	TXRD	574.5	312.4	211.6	100.8	0.0	0.0	262.1	0.0	3.5
BTX2332-1R	TXRD	542.3	503.9	134.5	231.3	138.1	4.9	33.4	0.0	3.7
NDTX050070-1R	TXRD	493.4	341.6	176.4	151.1	14.2	0.0	141.3	10.4	3.2
COTX07054-2R	TXRD	485.4	349.0	210.1	130.1	8.8	0.0	136.4	0.0	3.7
NDTX050169-1R	TXRD	472.1	225.5	177.7	45.9	2.0	0.0	243.1	3.5	2.5
TX13524-1R	TXRD	471.8	326.9	190.5	131.8	4.6	0.0	145.0	0.0	3.5
ATX05186-2R	TXRD	452.8	270.7	208.3	61.1	1.3	0.0	182.1	0.0	3.5
TX11448-2R	TXRD	367.9	288.4	143.3	125.2	19.9	3.5	76.0	0.0	3.3
TX13579-1R/Y	TXRD	331.6	238.7	52.7	90.8	95.2	0.0	32.9	60.0	3.0
TX13524-2R	TXRD	310.4	246.7	142.8	85.7	18.3	0.0	54.2	9.5	3.6
NDTX4784-7R	TXRD	286.8	243.6	85.1	114.6	43.9	2.4	40.8	0.0	3.2
Average		489.9	362.7	174.2	141.5	46.9	1.7	118.6	7.0	3.3
L.S.D. (.05)		43.3	47.3	45.5	54.1	18.0	6.0	29.8	7.1	0.1

<sup>1</sup> 1=very poor to 5= excellent

Dalhart  
Table 10b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 14 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
ATX08121-5R	TXRD	83.5	31.6	37.4	14.6	0.0	15.9	0.6	1.056	12.6	Oblong	Red
Red LaSoda	WR	86.6	31.6	30.8	24.2	1.8	11.6	0.0	1.058	12.9	Oblong	Red
NDTX092231C-1R	TXRD	80.2	40.0	35.1	5.1	0.0	18.2	1.6	1.058	12.9	Oblong	Red
TX12472-4R	TXRD	54.4	36.8	17.5	0.0	0.0	45.6	0.0	1.068	14.7	Round	Red
BTX2332-1R	TXRD	92.9	24.8	42.7	25.5	0.9	6.2	0.0	1.053	12.0	Oblong	Red
NDTX050070-1R	TXRD	69.2	35.8	30.6	2.9	0.0	28.6	2.1	1.060	13.1	Oblong	Red
COTX07054-2R	TXRD	71.9	35.3	26.8	1.8	0.0	28.1	0.0	1.063	13.8	Oblong	Red
NDTX050169-1R	TXRD	47.8	37.6	9.7	0.4	0.0	51.5	0.7	1.046	10.7	Round	Red
TX13524-1R	TXRD	69.3	40.4	27.9	1.0	0.0	30.7	0.0	1.053	12.0	Oblong	Red
ATTX05186-2R	TXRD	59.8	46.0	13.5	0.3	0.0	40.2	0.0	1.056	12.5	Oblong	Red
TX11448-2R	TXRD	78.4	39.0	34.0	5.4	0.9	20.6	0.0	1.050	11.4	Oblong	Red
TX13579-1R/Y	TXRD	72.0	15.9	27.4	28.7	0.0	9.9	18.1	1.054	12.1	Oblong	Red
TX13524-2R	TXRD	79.5	46.0	27.6	5.9	0.0	17.5	3.1	1.047	10.9	Oblong	Red
NDTX4784-7R	TXRD	84.9	29.7	39.9	15.3	0.8	14.2	0.0	1.049	11.2	Oblong	Red
Average		73.6	35.0	28.6	9.4	0.3	24.2	1.9	1.055	12.3		
L.S.D. (.05)		6.3	7.3	8.7	3.6	ns	6.3	1.2	0.004	0.6		

Dalhart  
Table 10c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 14 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
ATX08121-5R	TXRD	14.9	4.6	88	2.0	3.9	3.5	4.0	15
Red LaSoda	WR	11.0	4.7	100	2.5	4.5	4.8	4.5	0
NDTX092231C-1R	TXRD	12.3	4.0	93	2.5	3.8	4.0	3.7	0
TX12472-4R	TXRD	15.4	2.7	100	1.5	4.4	4.8	4.2	0
BTX2332-1R	TXRD	6.1	6.5	100	2.0	4.5	4.5	4.3	0
NDTX050070-1R	TXRD	12.6	3.2	93	2.0	3.8	3.5	3.7	10
COTX07054-2R	TXRD	12.3	3.3	91	2.3	4.1	4.0	4.0	0
NDTX050169-1R	TXRD	17.2	2.0	100	1.5	4.2	4.8	4.0	0
TX13524-1R	TXRD	11.6	3.0	100	2.5	3.5	3.5	3.5	10
ATTX05186-2R	TXRD	15.5	2.3	97	1.8	4.2	1.7	4.0	20
TX11448-2R	TXRD	13.7	3.4	71	2.3	3.6	2.0	3.6	0
TX13579-1R/Y	TXRD	9.1	5.3	50	1.5	4.0	4.8	4.0	0
TX13524-2R	TXRD	9.7	3.5	67	1.5	3.9	3.9	4.0	0
NDTX4784-7R	TXRD	8.2	4.3	61	2.5	2.5	3.3	3.3	15
Average		12.1	3.8	86	2.0	3.9	3.8	3.9	5
L.S.D. (.05)		4.6	0.3	20	0.3	0.2	1.1	0.1	5

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large



Dalhart  
Table 10d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 14 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
ATX08121-5R	TXRD	1.0	2.5	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Red LaSoda	WR	1.0	3.0	1.0	2.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX092231C-1R	TXRD	1.0	3.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12472-4R	TXRD	1.0	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX2332-1R	TXRD	1.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050070-1R	TXRD	1.0	2.5	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX07054-2R	TXRD	1.0	2.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050169-1R	TXRD	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13524-1R	TXRD	1.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05186-2R	TXRD	1.0	2.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX11448-2R	TXRD	1.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13579-1R/Y	TXRD	1.0	2.5	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13524-2R	TXRD	1.0	2.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX4784-7R	TXRD	1.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	2.5	1.0	3.9	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Dalhart  
Table 10e.

Notes and general rating for all reps of 14 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Notes Grading	General Rating Grading
ATX08121-5R	TXRD	light skin, nice shape, silver scurf, , ,	3.4, 3.4, 3.4, 3.4
Red LaSoda	WR	, , yield++, deep eyes, silver scurf,	3.3, 3.3, 3.3, 3.3
NDTX092231C-1R	TXRD	poor shape, too oblong, nice color, small, drop, , ,	3, 3, 3, 3
TX12472-4R	TXRD	BOT, light skin, nice shape, heavy set, silver scurf, , ,	3.5, 3.5, 3.5, 3.5
BTX2332-1R	TXRD	, , , nice shape, large tubers, nice size, silver scurf, BOT-	3.7, 3.7, 3.7, 3.7
NDTX050070-1R	TXRD	poor shape, small, nice skin color, silver scurf, , ,	3.2, 3.2, 3.2, 3.2
COTX07054-2R	TXRD	, , , keep, BOT-, nice shape, uniform, silver scurf	3.7, 3.7, 3.7, 3.7
NDTX050169-1R	TXRD	, , dark red skin color, sticky stolons, silver scurf,	2.5, 2.5, 2.5, 2.5
TX13524-1R	TXRD	nice shape, poor internals, silver scurf, , ,	3.5, 3.5, 3.5, 3.5
ATTX05186-2R	TXRD	, nice, small, light set, uniform, silver scurf, ,	3.5, 3.5, 3.5, 3.5
TX11448-2R	TXRD	, small uniform, silver scurf, ,	3.3, 3.3, 3.3, 3.3
TX13579-1R/Y	TXRD	, , , growth cracks, light yellow flesh, silver scurf, drop	3, 3, 3, 3
TX13524-2R	TXRD	keep, nice color, silver scurf, , ,	3.6, 3.6, 3.6, 3.6
NDTX4784-7R	TXRD	, low yield, nice shape and skin, silver scurf, ,	3.2, 3.2, 3.2, 3.2

## **2016 Red Selections Trial, Dalhart**

The trial consisted of 32 entries of which (NDTX12248Y-1R, NDTX1458-2R, TX14611-1R, TX14612-1R, TX14614-1R, TX14614-3R, TX14615-3R, TX14615-4R, TX14619-1R, TX14619-2R, TX14621-2R, TX14621-3R, TX14622-1R, and TX14622-2R) will be advanced in 2017 (Table 11).

Dalhart  
Table 11

Inventory weight of 14 entries to be Advanced  
from the 2015 Red Selection Trial grown near  
Dalhart, Texas-2017.

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Variety or Selection	Trial	Inventory Weight
NDTX12248Y-1R	15SEL446	18.2
NDTX1458-2R	15SEL448	30
TX14611-1R	15SEL215	22.7
TX14612-1R	15SEL296	14.9
TX14614-1R	15SEL292	21.1
TX14614-3R	15SEL294	23.3
TX14615-3R	15SEL237	28.2
TX14615-4R	15SEL238	26.2
TX14619-1R	15SEL274	21.9
TX14619-2R	15SEL275	9.4
TX14621-2R	15SEL213	11.2
TX14621-3R	15SEL214	11.3
TX14622-1R	15SEL189	19
TX14622-2R	15SEL190	20.7

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## Texas Advanced Red/Yellow Selection Trial, Dalhart

This trial consisted of six entries, including the check variety Sierra Rose.

Results were as follows: (Dalhart Tables 12a, 12b, 12c, 12d, and 12e)

- Sierra Rose and ATTX10265-4R/Y had the highest general rating and best of trial notations (Table 12a and 12f).
- Sierra Rose had the highest total yield, while ATTX10265-4R/Y had the highest marketable yield (Table 12a)
- ATTX10265-4R/Y had the highest yield of 4-6 oz. tubers, while TX12471-7R/Y had the highest yield of less than 4 oz. tubers (Table 12a).
- ATTX10265-4R/Y had the highest yield of culls/No. 2 tubers (Table 12a).
- TX13528-5R/Y had the highest percentage of marketable yield, while ATTX10265-4R/Y had the highest percentage of 4-6 oz. tubers (Table 12b).
- TX12471-7R/Y had the highest percentage of less than 4 oz. tubers, while ATTX10265-4R/Y had the highest percentage culls/No. 2 tubers (Table 12b).
- TX12471-1R/Y had the highest specific gravity (Table 12b).
- TX12471-7R/Y had the highest average number of tubers per plant (Table 12c).
- TX13528-5R/Y and TX12471-7R/Y were the latest maturing entries (Table 12c).
- ATTX10265-4R/Y had the darkest yellow flesh color (Table 12d).

### Comments on entries:

- |   |                         |            |   |
|---|-------------------------|------------|---|
| • | Sierra Rose             | Oblong Red | BOT-, nice size and shape, silver scurf, FC=3.0                       |
| • | TX13528-5R/Y            | Oblong Red | rough, deep eyes, light skin, nice flesh, silver scurf, FC=3.3        |
| • | ATTX961014-1R/Y Chimera | Oblong Red | not chimera, nice shape, purple steaks in flesh, silver scurf, FC=3.0 |
| • | ATTX10265-4R/Y          | Oblong Red | some flat, smooth skin, nice shape and flesh BOT, FC=3.6              |
| • | TX12471-7R/Y            | Round Red  | light skin, small, silver scurf, FC=3.0                               |
| • | TX12471-1R/Y            | Round Red  | nice shape, smooth, FC=3.0  |

<sup>1</sup>FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

Sierra Rose and ATTX10265-4R/Y were the outstanding entries for this trial based on all factors.

Dalhart  
Table 12a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 6 entries in the Texas Advanced Red/Yellow Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
Sierra Rose	TXRD/Y	510.3	447.9	175.5	211.8	60.6	7.5	54.9	0.0	3.8
TX13528-5R/Y	TXRD/Y	503.7	467.6	173.8	248.9	44.9	0.0	36.1	0.0	3.2
ATTX961014-1R/Y Chimera	TXRD/Y	492.5	402.4	214.3	179.4	8.8	0.0	90.0	0.0	2.5
ATTX10265-4R/Y	TXRD/Y	464.2	368.2	286.3	82.0	0.0	0.0	76.1	19.8	3.8
TX12471-7R/Y	TXRD/Y	451.3	323.4	234.3	89.1	0.0	0.0	127.9	0.0	3.3
TX12471-1R/Y	TXRD/Y	287.3	243.8	126.7	117.1	0.0	0.0	43.6	0.0	3.6
Average		451.5	375.5	201.8	154.7	19.0	1.3	71.5	3.3	3.4
L.S.D. (.05)		38.8	60.1	57.4	36.0	12.3	ns	30.8	ns	0.1

<sup>1</sup> 1=very poor to 5= excellent

Dalhart  
Table 12b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 6 entries in the Texas Advanced Red/Yellow Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Sierra Rose	TXRD/Y	87.8	34.4	41.5	11.9	1.5	10.8	0.0	1.056	12.6	Oblong	Red
TX13528-5R/Y	TXRD/Y	92.8	34.5	49.4	8.9	0.0	7.2	0.0	1.052	11.9	Oblong	Red
ATTX961014-1R/Y Chimera	TXRD/Y	81.7	43.5	36.4	1.8	0.0	18.3	0.0	1.064	13.9	Oblong	Red
ATTX10265-4R/Y	TXRD/Y	79.3	61.7	17.7	0.0	0.0	16.4	4.3	1.046	10.7	Oblong	Red
TX12471-7R/Y	TXRD/Y	71.7	51.9	19.7	0.0	0.0	28.3	0.0	1.065	14.1	Round	Red
TX12471-1R/Y	TXRD/Y	84.8	44.1	40.8	0.0	0.0	15.2	0.0	1.066	14.3	Round	Red
Average		83.0	45.0	34.3	3.8	0.2	16.0	0.7	1.058	12.9		
L.S.D. (.05)		9.5	9.0	7.8	2.2	ns	8.5	ns	0.003	0.6		



Dalhart  
Table 12c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 6 entries in the Texas Advanced Red/Yellow Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
Sierra Rose	TXRD/Y	7.8	4.8	100	2.5	4.0	3.5	4.1	10
TX13528-5R/Y	TXRD/Y	7.7	4.8	100	1.5	4.8	5.0	4.6	0
ATTX961014-1R/Y Chimera	TXRD/Y	10.0	3.6	100	2.5	3.8	3.7	3.7	10
ATTX10265-4R/Y	TXRD/Y	10.2	3.3	100	1.5	4.9	3.5	4.5	15
TX12471-7R/Y	TXRD/Y	11.6	2.8	100	1.5	4.6	5.0	4.5	0
TX12471-1R/Y	TXRD/Y	5.6	3.8	100	1.5	4.4	3.7	4.3	0
Average		8.8	3.9	100	1.8	4.4	4.1	4.3	6
L.S.D. (.05)		1.3	0.5	ns	0.1	0.1	0.1	0.1	5

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart  
Table 12d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 6 entries in the Texas Advanced Red/Yellow Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
Sierra Rose	TXRD/Y	3.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13528-5R/Y	TXRD/Y	3.3	2.5	1.0	3.5	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX961014-1R/Y Chimera	TXRD/Y	3.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX10265-4R/Y	TXRD/Y	3.6	3.0	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12471-7R/Y	TXRD/Y	3.0	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12471-1R/Y	TXRD/Y	3.0	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.2	2.6	1.0	3.9	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Dalhart  
Table 12e.

Notes and general rating for all reps of 6 entries in the Texas Advanced Red/Yellow Selection  
Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Notes Grading	General Rating Grading
Sierra Rose	TXRD/Y	BOT-, nice size and shape, silver scurf, , ,	3.8, 3.8, 3.8, 3.8
TX13528-5R/Y	TXRD/Y	rough, deep eyes, light skin, nice flesh, silver scurf, , , , , not chimera, nice shape, purple steaks in flesh, silver	3.2, 3.2, 3.2, 3.2
ATTX961014-1R/Y Chimera	TXRD/Y	scurf,	2.5, 2.5, 2.5, 2.5
ATTX10265-4R/Y	TXRD/Y	some flat, smooth skin, nice shape and flesh BOT, , ,	3.8, 3.8, 3.8, 3.8
TX12471-7R/Y	TXRD/Y	, , , light skin, small, silver scurf	3.3, 3.3, 3.3, 3.3
TX12471-1R/Y	TXRD/Y	nice shape, smooth, , ,	3.6, 3.6, 3.6, 3.6

## Texas Advanced White/Yellow Selection Trial, Dalhart

This trial consisted of six entries, including the check variety Yukon Gold.

Results were as follows: (Dalhart Tables 13a, 13b, 13c, 13d, and 13e)

- COTX10097-2W/Y was the outstanding entry for this trial based on general rating and best of trial designation, while Yukon Gold and COTX10097-2W/Y also had a high general rating (Tables 13a and 13e).
- AORTX11913-3Wre/Y had the highest total yield, while BTX1749-1W/Y had the highest marketable yield (Table 13a).
- AORTX11913-3Wre/Y had the highest yield of 4-6 oz. tubers, while BTX1749-1W/Y had the highest yield of over 10 oz. tubers. COTX05249-3WRE/Y had the highest yield of less than 4 oz. tubers. COTX07382-2W/Y had the highest yield of culls/No. 2 tubers (Table 13a).
- BTX1749-1W/Y had the highest percentage of marketable yield. COTX05249-3WRE/Y had the highest percentage of 4-6 oz. tubers, while Yukon Gold had the highest percentage of over 10 oz. tubers (Table 13b).
- COTX05249-3WRE/Y had the highest percentage of less than 4 oz. tubers. COTX07382-2W/Y had the highest percentage of culls/No. 2 tubers (Table 13b).
- BTX1749-1W/Y had the highest specific gravity (Table 13b).
- AORTX11913-3Wre/Y had the highest average tubers per plant (Table 13c).
- AORTX11913-3Wre/Y was the latest in maturity, while BTX1749-1W/Y and COTX10097-2W/Y were the earliest in maturity (Table 13c).
- COTX10097-2W/Y and Yukon Gold had the darkest yellow flesh (Table 13d).

### Comments on entries:

- AORTX11913-3Wre/Y Oblong White splash, nice shape, small, very light yellow flesh, some IBS, FC=1.5
- BTX1749-1W/Y Oblong White nice shape, some IBS, some buff skin, FC=3.0
- COTX10097-2W/Y Oblong White some buff skin, nice shape and flesh, BOT+, FC=3.5
- COTX05249-3WRE/Y Oblong White red eyes, some rough, light flesh, small, FC=1.5
- Yukon Gold Oblong White nice shape and flesh, scab, FC=3.5

- COTX07382-2W/Y Oblong White too rough, poor shape, drop, FC=2.0

<sup>1</sup>FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

COTX10097-2W/Y was the outstanding entry for this trial based on all factors.

Dalhart  
Table 13a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 6 entries in the Texas Advanced White/Yellow Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
AORTX11913-3Wre/Y	TXW/Y	709.2	582.9	280.2	251.8	50.9	0.0	126.3	0.0	3.5
BTX1749-1W/Y	TXW/Y	693.7	611.1	165.7	320.7	124.7	0.0	73.5	9.2	3.5
COTX10097-2W/Y	TXW/Y	568.5	443.8	257.2	179.9	6.8	0.0	118.6	6.0	3.8
COTX05249-3WRE/Y	TXW/Y	422.2	275.8	199.6	76.1	0.0	0.0	146.4	0.0	3.4
Yukon Gold	WR	394.8	346.1	100.8	162.2	83.1	11.0	30.9	6.8	3.6
COTX07382-2W/Y	TXW/Y	322.9	254.5	56.4	134.7	63.4	0.0	20.0	48.3	2.0
Average		518.5	419.0	176.7	187.6	54.8	1.8	86.0	11.7	3.3
L.S.D. (.05)		42.0	58.0	46.1	42.8	49.5	ns	20.0	27.0	0.1

<sup>1</sup> 1=very poor to 5= excellent

Dalhart  
Table 13b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 6 entries in the Texas Advanced White/Yellow Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
AORTX11913-3Wre/Y	TXW/Y	82.2	39.5	35.5	7.2	0.0	17.8	0.0	1.047	10.8	Oblong	White
BTX1749-1W/Y	TXW/Y	88.1	23.9	46.2	18.0	0.0	10.6	1.3	1.064	14.0	Oblong	White
COTX10097-2W/Y	TXW/Y	78.1	45.2	31.6	1.2	0.0	20.9	1.1	1.059	13.1	Oblong	White
COTX05249-3WRE/Y	TXW/Y	65.3	47.3	18.0	0.0	0.0	34.7	0.0	1.055	12.3	Oblong	White
Yukon Gold	WR	87.7	25.5	41.1	21.0	2.8	7.8	1.7	1.060	13.2	Oblong	White
COTX07382-2W/Y	TXW/Y	78.8	17.5	41.7	19.7	0.0	6.2	15.0	1.057	12.6	Oblong	White
Average		80.0	33.2	35.7	11.2	0.5	16.3	3.2	1.057	12.7		
L.S.D. (.05)		8.5	7.2	9.3	10.0	ns	3.8	6.8	0.003	0.6		

Dalhart  
Table 13c.

Average number of tubers per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 6 entries in the Texas Advanced White/Yellow Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
AORTX11913-3Wre/Y	TXW/Y	15.4	3.3	100	1.5	4.5	5.0	4.4	0
BTX1749-1W/Y	TXW/Y	10.5	4.8	100	2.5	4.0	3.0	3.9	50
COTX10097-2W/Y	TXW/Y	14.2	2.9	100	2.5	3.8	3.0	3.7	45
COTX05249-3WRE/Y	TXW/Y	12.5	2.5	100	1.5	4.2	3.3	4.0	40
Yukon Gold	WR	5.1	5.6	100	1.5	4.5	3.5	4.2	50
COTX07382-2W/Y	TXW/Y	4.0	5.9	100	2.0	4.0	3.5	3.9	35
Average		10.3	4.2	100	1.9	4.2	3.6	4.0	37
L.S.D. (.05)		1.3	0.3	ns	0.1	0.1	0.1	0.1	5

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large



Dalhart  
Table 13d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 6 entries in the Texas Advanced White/Yellow Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
AORTX11913-3Wre/Y	TXW/Y	1.5	3.0	1.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	3
BTX1749-1W/Y	TXW/Y	3.0	3.0	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	5
COTX10097-2W/Y	TXW/Y	3.5	2.5	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX05249-3WRE/Y	TXW/Y	1.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Yukon Gold	WR	3.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX07382-2W/Y	TXW/Y	2.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.5	2.8	1.3	4.0	1.7	5.0	5.0	5.0	5.0	5.0	0	0	0	1

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Dalhart  
Table 13e.

Notes and general rating for all reps of 6 entries in the Texas Advanced White/Yellow Selection  
Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Notes Grading	General Rating Grading
AORTX11913-3Wre/Y	TXW/Y	, , , splash, nice shape, small, very light yellow flesh, some IBS	3.5, 3.5, 3.5, 3.5
BTX1749-1W/Y	TXW/Y	, nice shape, some IBS, some buff skin, ,	3.5, 3.5, 3.5, 3.5
COTX10097-2W/Y	TXW/Y	some buff skin, nice shape and flesh, BOT+, , ,	3.8, 3.8, 3.8, 3.8
COTX05249-3WRE/Y	TXW/Y	red eyes, some rough, light flesh, small, , ,	3.4, 3.4, 3.4, 3.4
Yukon Gold	WR	, nice shape and flesh, scab, ,	3.6, 3.6, 3.6, 3.6
COTX07382-2W/Y	TXW/Y	, too rough, poor shape, drop, ,	2, 2, 2, 2

## **2016 White/Yellow Selections Trial, Dalhart**

The trial consisted of 51 entries of which (AORTX13175-1WSPL, ATX08215-6W/Y, ATX08215-7W/Y, ATX09044-2W/Y, ATX10325-1W/Y, TX14602-2W/Y, TX14669-2W/Y, TX14669-4W/Y, TX14670-2W/Y, TX14675-1W/Y, and TX14675-3W/Y) will be advanced in 2017 (Table 14).

Dalhart  
Table 14

Inventory weight of 11 entries to be advanced from  
the 2015 White Skin Yellow Flesh Selection Trial  
grown near Dalhart, Texas-2016.

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Variety or Selection	Trial	Inventory Weight
AORTX13175-1WSPL	15SEL024	8.8
ATX08215-6W/Y	15SEL337	16.2
ATX08215-7W/Y	15SEL338	6.9
ATX09044-2W/Y	15SEL315	1.7
ATX10325-1W/Y	15SEL379	8
TX14602-2W/Y	15SEL285	15.6
TX14669-2W/Y	15SEL192	11.3
TX14669-4W/Y	15SEL194	29.8
TX14670-2W/Y	15SEL278	24
TX14675-1W/Y	15SEL216	15.9
TX14675-3W/Y	15SEL218	10.1

## Texas Advanced Small Potato Selection Trial, Dalhart

This trial consisted of thirty four entries.

Results were as follows: (Dalhart Tables 15a, 15b, 15c, 15d, and 15e)

- COTX10138S-7W/Y, ATTX98444S-16R/Y, TX12471-6W/Y, NDTX102816CABS-1W, and COTX10073S-1W were the outstanding entries based on general rating and best of trial notation, while AORTX11468-1W also received a high general rating (Tables 15a and 15e).
- NDTX081451CBS-1Y/Y had the highest total yield, ATX08117-3P had the highest yield of marketable yield. NDTX081451CBS-1Y/Y had the highest yield of oversized tubers (Table 15a).
- TX13582-3W had the highest percentage of marketable tubers (Table 15b).
- ATX08117-3P, AORTX11913-5P COTX10138S-7W/Y NDTX102816CABS-1W had the highest average number of tubers per plant (Table 15c).
- NDTX081451CBS-1Y/Y, ATX05202S-3W/Y, ATX08117-3P, AORTX11913-4P, AORTX11913-6P/Y, NDTX050169-1R, NDTX102816CABS-1W, NDTX1287B-1W, COTX10073S-1W, TX13539-4R/Y, and AORTX11468-1W were the latest in maturity, while COTX04193S-2R/Y, COTX94416-1R, NDTX071258BS-1R, and TX11448S-4R were the earliest in maturity (Table 15c).
- NDTX081451CBS-1Y/Y, ATX06264S-4R/Y TX12471-6W/Y and COTX04193S-2R/Y had the darkest yellow flesh. TX09406S-1P/P and COTX04050S-1P/P had very dark purple flesh (Table 15d).

### Comments on entries:

- |   |                    |              |   |
|---|--------------------|--------------|---|
| • | NDTX081451CBS-1Y/Y | Oblong White | yield+, too big, oblong, nice flesh, FC=3.5   |
| • | ATX05202S-3W/Y     | Oblong White | good numbers and shape, poor skin, yield+, too big, nice skin and flesh, FC=3.0   |
| • | NDTX102639CS-1W    | Oblong White | low number, ok, too big, poor internals, drop, FC=1.0   |
| • | ATX08117-3P        | Round Purple | white flesh will not sell, good number, less scurf, good skin, white flesh, nice shape and size, good numbers, drop, FC=1.0 |
| • | NDTX113037C-2W     | Round White  | good skin color, good numbers, ok, lots of bruise, light set, nice size, drop, FC=1.0                                       |

- AORTX11913-4P      Oblong Purple      variable skin, ok numbers, drop++, silver scurf, sticky stolon, nice size, FC=1.0
- AORTX11913-5P      Oblong Purple      numbers ok, poor skin, too big, white flesh, silver scurf, drop, FC=1.0
- AORTX11913-6P/Y      Oblong Purple      poor color, high set, too big, yield+, light flesh, FC=2.5
- TX09406S-1P/P      Round Purple      good numbers and shape, too big, nice shape, silver scurf, FC=4.0
- COTX10138S-7W/Y      Oblong White      good numbers and shape, keep, good skin, yield+, nice shape and flesh, cull purple eyes, BOT, FC=3.0
- ATX06264S-4R/Y      Round Red      scurf++, numbers good, nice size and flesh, silver scurf, FC=3.5
- ATTX98444S-16R/Y      Oblong Red      numbers good, good shape and flesh, poor skin, silver scurf, BOT-, FC=3.0
- NDTX050169-1R      Round Red      nice size, sticky stolons, silver scurf, FC=1.0
- TX12471-6W/Y      Oblong White      low numbers, drop, good numbers, high set, nice skin and flesh, smooth and skinny, BOT, FC=3.5
- NDTX102816CABS-1W      Oblong White      nice size, good number, lots of very small tubers, second set??, white flesh, FC=1.0
- COTX04050S-1P/P      Oblong Purple      scurf++, numbers good and flesh, good skin keep, nice size and shape, dark flesh, silver scurf, FC=4.5
- NDTX1287B-1W      Oblong White      light set, nice size and skin, white flesh, FC=1.0
- ATX05186S-1R      Round Red      drop, not even, nice skin and size, silver scurf, FC=1.0
- COTX10073S-1W      Oblong White      nice size, shape, and skin, yield, white flesh, BOT, FC=1.0
- COTX10226S-1W/Y      Round White      splash will not sell, nice size, poor skin finish, light yellow flesh, drop, FC=3.0
- AORTX09147-1W      Oblong White      too big, poor shape, high set, low number of marketable, drop, FC=1.0
- NDTX12130CB-1W      Oblong White      low numbers, large and small tubers, nice size, some large, feathering, FC=1.0
- TX13582-3W      Round White      nice size, skin finish?, white flesh, FC=1.0
- TX13582-5W      Round White      nice size and shape, keep, FC=1.0
- NDTX071258BS-1R      Round White      low numbers, nice size, silver scurf, FC=1.0

- TX13565-2W            Round Red            too big, drop, FC=1.0
- TX11448S-4R           Round White           low numbers, light set, nice size, white flesh, FC=1.0
- COTX04193S-2R/Y      Round Red            scurf++, small, nice size, silver scurf, FC=3.5
- TX13539-4R/Y           Oblong Red            good color, poor shape, too oblong, silver scurf, nice flesh, FC=3.0
- ATTX05175S-1R/Y      Oblong Red            nice size, and shape, silver scurf, FC=2.5
- AORTX11468-1W        Oblong Red            light set, late size, drop nice size, shape and skin, white flesh, FC=1.0
- TX13582-4W            Oblong White          nice size, low set, white flesh, FC=1.0
- TX12494-1R/Y          Round White           ok size, nice flesh, low set, silver scurf, FC=3.5
- COTX94416-1R          Round Red            too big, low set, drop, FC=1.0

<sup>1</sup>FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

COTX10138S-7W/Y, ATTX98444S-16R/Y, TX12471-6W/Y, NDTX102816CABS-1W, and COTX10073S-1W were the outstanding entries based on all factors.

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Table 15a.

Total yield, marketable yield, over sized, under sized, culls/No.2 potatoes, and general rating of 34 entries in the Texas Advanced Small Potato Selection Trial, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	Marketable Yield	Over Sized	Under Sized	Culls/ No.2	General Rating <sup>1</sup> Grading
NDTX081451CBS-1Y/Y	Small	738.0	229.1	508.8	0.0	0.0	3.5
ATX05202S-3W/Y	Small	664.3	247.7	416.1	0.5	0.0	2.5
NDTX102639CS-1W	Small	591.5	213.0	378.5	0.0	0.0	3.0
ATX08117-3P	Small	588.1	416.8	171.1	0.2	0.0	2.5
NDTX113037C-2W	Small	571.2	170.9	399.5	0.7	0.0	2.5
AORTX11913-4P	Small	567.1	302.8	263.3	1.0	0.0	3.0
AORTX11913-5P	Small	510.5	297.2	210.1	3.2	0.0	2.0
AORTX11913-6P/Y	Small	480.7	215.2	264.8	0.7	0.0	2.0
TX09406S-1P/P	Small	480.1	283.6	196.0	0.5	0.0	3.4
COTX10138S-7W/Y	Small	477.5	285.5	186.0	6.0	0.0	4.0
ATX06264S-4R/Y	Small	476.8	298.5	178.1	0.2	0.0	3.3
ATX98444S-16R/Y	Small	470.5	352.9	117.6	0.0	0.0	3.6
NDTX050169-1R	Small	469.2	324.3	142.5	2.4	0.0	2.0
TX12471-6W/Y	Small	455.9	268.1	187.4	0.4	0.0	4.0
NDTX102816CABS-1W	Small	438.5	315.5	110.8	12.2	0.0	3.7
COTX04050S-1P/P	Small	429.9	266.3	162.7	0.9	0.0	3.3
NDTX1287B-1W	Small	427.5	187.4	240.1	0.0	0.0	3.5
ATX05186S-1R	Small	426.3	218.3	206.6	1.3	0.0	3.0
COTX10073S-1W	Small	425.2	261.2	161.6	2.4	0.0	3.8
COTX10226S-1W/Y	Small	423.4	302.8	118.4	2.2	0.0	3.0
AORTX09147-1W	Small	403.0	132.9	269.8	0.4	0.0	3.0
NDTX12130CB-1W	Small	371.5	158.5	212.3	0.7	0.0	3.4
TX13582-3W	Small	363.1	294.3	65.9	2.9	0.0	3.5
TX13582-5W	Small	330.2	243.1	84.2	2.9	0.0	3.6
NDTX071258BS-1R	Small	327.2	175.0	152.3	0.0	0.0	3.0
TX13565-2W	Small	322.1	85.7	236.5	0.0	0.0	2.5
TX11448S-4R	Small	319.2	209.4	109.8	0.0	0.0	2.0
COTX04193S-2R/Y	Small	297.9	188.9	108.1	0.9	0.0	2.5
TX13539-4R/Y	Small	284.2	195.3	82.5	6.4	0.0	2.5
ATX05175S-1R/Y	Small	283.8	209.9	73.5	0.5	0.0	3.6
AORTX11468-1W	Small	271.9	199.1	70.3	2.4	0.0	3.8
TX13582-4W	Small	244.5	154.5	88.6	1.5	0.0	3.5
TX12494-1R/Y	Small	239.6	162.5	75.8	1.3	0.0	3.0
COTX94416-1R	Small	169.1	64.4	100.3	4.4	0.0	2.0
Average		476.3	258.4	216.2	1.7	0.0	3.1
L.S.D. (.05)		45.1	40.8	37.9	2.1	ns	0.1

<sup>1</sup> 1=very poor to 5= excellent



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Table 15b.

Percent by weight of marketable yeild, over sized, under sized, culls/No. 2 potatoes, specific gravity, tuber type and skin type of 34 entries in the Texas Advanced Small Potato Selection Trial, Texas-2016.

Variety or Selection	Trial	Percent By Weight				Specific Gravity	% Solids	Tuber Type	Skin Type
		Marketable Yield	Over Sized	Under Sized	Culls/ No. 2				
NDTX081451CBS-1Y/Y	Small	31.1	68.9	0.0	0.0	1.069	14.8	Oblong	White
ATX05202S-3W/Y	Small	37.3	62.6	0.1	0.0	1.061	13.4	Oblong	White
NDTX102639CS-1W	Small	36.0	64.0	0.0	0.0	1.060	13.2	Oblong	White
ATX08117-3P	Small	70.9	29.1	0.0	0.0	1.048	11.1	Round	Purple
NDTX113037C-2W	Small	29.9	69.9	0.1	0.0	1.071	15.2	Round	White
AORTX11913-4P	Small	53.4	46.4	0.2	0.0	1.050	11.4	Oblong	Purple
AORTX11913-5P	Small	58.2	41.2	0.6	0.0	1.053	12.0	Oblong	Purple
AORTX11913-6P/Y	Small	44.8	55.1	0.2	0.0	1.053	12.0	Oblong	Purple
TX09406S-1P/P	Small	59.1	40.8	0.1	0.0	1.054	12.1	Round	Purple
COTX10138S-7W/Y	Small	59.8	38.9	1.3	0.0	1.056	12.6	Oblong	White
ATX06264S-4R/Y	Small	62.6	37.4	0.0	0.0	1.065	14.1	Round	Red
ATTX98444S-16R/Y	Small	75.0	25.0	0.0	0.0	1.072	15.3	Oblong	Red
NDTX050169-1R	Small	69.1	30.4	0.5	0.0	1.044	10.4	Round	Red
TX12471-6W/Y	Small	58.8	41.1	0.1	0.0	1.057	12.6	Oblong	White
NDTX102816CABS-1W	Small	72.0	39.4	2.8	0.0	1.077	16.2	Oblong	White
COTX04050S-1P/P	Small	61.9	37.8	0.2	0.0	1.062	13.6	Oblong	Purple
NDTX1287B-1W	Small	43.8	56.2	0.0	0.0	1.082	17.1	Oblong	White
ATX05186S-1R	Small	51.2	48.5	0.3	0.0	1.056	12.5	Round	Red
COTX10073S-1W	Small	61.4	38.0	0.6	0.0	1.073	15.5	Oblong	White
COTX10226S-1W/Y	Small	71.5	28.0	0.5	0.0	1.053	12.0	Round	White
AORTX09147-1W	Small	33.0	66.9	0.1	0.0	1.063	13.8	Oblong	White
NDTX12130CB-1W	Small	42.7	57.1	0.2	0.0	1.060	13.1	Oblong	White
TX13582-3W	Small	81.0	18.1	0.8	0.0	1.058	12.9	Round	White
TX13582-5W	Small	73.6	25.5	0.9	0.0	1.058	12.9	Round	White
NDTX071258BS-1R	Small	53.5	46.5	0.0	0.0	1.053	12.1	Round	Red
TX13565-2W	Small	26.6	73.4	0.0	0.0	1.059	13.0	Round	White
TX11448S-4R	Small	65.6	34.4	0.0	0.0	1.058	12.9	Round	White
COTX04193S-2R/Y	Small	63.4	36.3	0.3	0.0	1.051	11.7	Round	Red
TX13539-4R/Y	Small	68.7	29.0	2.3	0.0	1.053	11.9	Oblong	Red
ATTX05175S-1R/Y	Small	73.9	25.9	0.2	0.0	1.072	15.3	Oblong	Red
AORTX11468-1W	Small	73.2	25.9	0.9	0.0	1.070	15.1	Oblong	Red
TX13582-4W	Small	63.2	36.2	0.6	0.0	1.070	15.0	Oblong	White
TX12494-1R/Y	Small	67.8	31.6	0.5	0.0	1.054	12.1	Round	White
COTX94416-1R	Small	38.1	59.3	2.6	0.0	1.058	12.8	Round	Red
Average		55.7	44.5	0.4	0.0	1.060	13.3		
L.S.D. (.05)		7.4	7.5	0.6	ns	0.006	1.0		

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Table 15c. Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 34 entries in the Texas Advanced Small Potato Selection Trial, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
NDTX081451CBS-1Y/Y	Small	15.6	3.4	100	1.8	4.6	5.0	4.5	0
ATX05202S-3W/Y	Small	15.3	3.2	100	2.0	4.6	5.0	4.4	0
NDTX102639CS-1W	Small	12.1	3.6	100	2.3	4.0	3.8	4.0	15
ATX08117-3P	Small	20.7	2.1	100	2.3	4.5	5.0	4.4	0
NDTX113037C-2W	Small	12.0	3.5	100	1.8	4.7	4.8	4.5	0
AORTX11913-4P	Small	17.7	2.3	100	1.8	4.5	5.0	4.4	0
AORTX11913-5P	Small	18.1	2.1	100	2.0	4.4	4.8	4.3	0
AORTX11913-6P/Y	Small	13.3	2.6	100	2.0	4.3	5.0	4.1	0
TX09406S-1P/P	Small	16.3	2.2	100	2.5	3.4	4.0	3.3	10
COTX10138S-7W/Y	Small	19.0	1.8	100	2.5	3.9	3.8	3.8	15
ATX06264S-4R/Y	Small	15.2	2.3	100	2.0	4.1	4.0	4.1	0
ATTX98444S-16R/Y	Small	13.7	2.7	100	1.8	3.7	3.7	3.8	15
NDTX050169-1R	Small	16.8	2.0	100	1.8	4.3	5.0	4.2	0
TX12471-6W/Y	Small	13.2	2.5	100	2.0	3.6	4.0	3.6	0
NDTX102816CABS-1W	Small	20.9	1.5	100	1.8	4.3	5.0	4.2	0
COTX04050S-1P/P	Small	14.7	2.2	100	1.8	4.2	3.7	4.2	15
NDTX1287B-1W	Small	9.1	3.4	100	1.5	4.8	5.0	4.5	0
ATX05186S-1R	Small	13.2	2.4	100	2.5	3.5	3.7	3.6	0
COTX10073S-1W	Small	13.7	2.3	100	1.8	4.0	5.0	4.0	0
COTX10226S-1W/Y	Small	14.7	2.1	100	2.5	3.5	3.9	3.6	10
AORTX09147-1W	Small	8.7	3.3	100	2.0	3.8	4.5	3.7	0
NDTX12130CB-1W	Small	9.9	2.7	100	2.0	3.8	4.8	3.7	0
TX13582-3W	Small	15.8	1.7	100	2.5	3.6	4.0	3.6	10
TX13582-5W	Small	13.7	1.8	100	2.5	3.7	3.8	3.7	20
NDTX071258BS-1R	Small	10.1	2.4	100	2.8	3.0	2.5	3.1	75
TX13565-2W	Small	6.6	3.5	100	2.0	4.4	4.8	4.2	0
TX11448S-4R	Small	10.1	2.4	100	2.5	3.5	2.5	3.5	70
COTX04193S-2R/Y	Small	10.4	2.1	100	2.5	3.3	3.0	3.3	40
TX13539-4R/Y	Small	13.8	1.6	100	2.0	4.1	5.0	4.0	0
ATTX05175S-1R/Y	Small	10.8	2.0	100	1.8	4.4	4.7	4.1	0
AORTX11468-1W	Small	10.2	2.0	100	2.0	4.5	5.0	4.3	0
TX13582-4W	Small	9.9	1.8	100	2.0	4.0	4.0	3.9	0
TX12494-1R/Y	Small	8.7	2.0	100	2.5	3.9	3.7	3.8	10
COTX94416-1R	Small	4.5	2.7	100	2.5	3.5	3.0	3.3	55
Average		14.5	2.5	100	2.1	4.0	4.4	4.0	7
L.S.D. (.05)		2.3	0.3	ns	0.4	0.3	0.1	0.3	5

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

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Table 15d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 34 entries in the Texas Advanced Small Potato Selection Trial, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
NDTX081451CBS-1Y/Y	Small	3.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05202S-3W/Y	Small	3.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102639CS-1W	Small	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	20
ATX08117-3P	Small	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113037C-2W	Small	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11913-4P	Small	1.0	2.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11913-5P	Small	1.0	2.5	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11913-6P/Y	Small	2.5	2.5	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09406S-1P/P	Small	4.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10138S-7W/Y	Small	3.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX06264S-4R/Y	Small	3.5	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX98444S-16R/Y	Small	3.0	2.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050169-1R	Small	1.0	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12471-6W/Y	Small	3.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102816CABS-1W	Small	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04050S-1P/P	Small	4.5	2.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX1287B-1W	Small	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05186S-1R	Small	1.0	2.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10073S-1W	Small	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10226S-1W/Y	Small	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09147-1W	Small	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX12130CB-1W	Small	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.5	0	0	0	0
TX13582-3W	Small	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13582-5W	Small	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX071258BS-1R	Small	1.0	2.0	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13565-2W	Small	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX11448S-4R	Small	1.0	2.0	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04193S-2R/Y	Small	3.5	2.5	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13539-4R/Y	Small	3.0	3.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05175S-1R/Y	Small	2.5	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11468-1W	Small	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13582-4W	Small	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12494-1R/Y	Small	3.5	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX94416-1R	Small	1.0	2.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.9	2.3	1.0	4.0	2.5	5.0	5.0	5.0	5.0	5.0	0	0	0	1

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

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Table 15e.

Notes and general rating for all reps of 34 entries in the Texas Advanced Small Potato Selection Trial, Texas-2016.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Grading
NDTX081451CBS-1Y/Y	Small	, , ,	, yield+, too big, oblong, nice flesh, ,	3.5, 3.5, 3.5, 3.5
ATX05202S-3W/Y	Small	, , , good numbers and shape, poor skin	yield+, too big, nice skin and flesh, , ,	2.5, 2.5, 2.5, 2.5
NDTX102639CS-1W	Small	, , low number, ok, white flesh will not sell, good number, less	, too big, poor internals, drop, ,	3, 3, 3, 3
ATX08117-3P	Small	scurf, good skin, , ,	, , white flesh, nice shape and size, good numbers, drop,	2.5, 2.5, 2.5, 2.5
NDTX113037C-2W	Small	good skin color, good numbers, ok, , ,	, , lots of bruise, light set, nice size, drop,	2.5, 2.5, 2.5, 2.5
AORTX11913-4P	Small	variable skin, ok numbers, , , drop	, , silver scurf, sticky stolon, nice size, drop,	3, 3, 3, 3
AORTX11913-5P	Small	numbers ok, poor skin, , ,	, , , too big, white flesh, silver scurf, drop	2, 2, 2, 2
AORTX11913-6P/Y	Small	, , , poor color	high set, too big, yield=, light flesh, , ,	2, 2, 2, 2
TX09406S-1P/P	Small	, good numbers and shape, ,	too big, nice shape, silver scurf, , ,	3.4, 3.4, 3.4, 3.4
COTX10138S-7W/Y	Small	, good numbers and shape, keep, good numbers, good skin,	yield+, nice shape and flesh, cull purple eyes, BOT, , ,	4, 4, 4, 4
ATX06264S-4R/Y	Small	, , scurf++, numbers good ,	, , , nice size and flesh, silver scurf	3.3, 3.3, 3.3, 3.3
ATTX98444S-16R/Y	Small	numbers good, good shape and flesh, poor skin, , ,	, nice shape, good numbers, silver scurf, BOT-, ,	3.6, 3.6, 3.6, 3.6
NDTX050169-1R	Small	, , ,	, nice size, sticky stolons, silver scurf, ,	2, 2, 2, 2
TX12471-6W/Y	Small	, low numbers, drop, , ,	good numbers, high set, nice skin and flesh, smooth and shinny, BOT, , ,	4, 4, 4, 4
NDTX102816CABS-1W	Small	, , ,	, , nice size, good number, lots of very small tubers, second set??, white flesh,	3.7, 3.7, 3.7, 3.7
COTX04050S-1P/P	Small	scurf++, numbers good and flesh, good numbers skin and flesh, keep, ,	, , , nice size and shape, dark flesh, silver scurf	3.3, 3.3, 3.3, 3.3
NDTX1287B-1W	Small	, , ,	light set, nice size and skin, white flesh, , ,	3.5, 3.5, 3.5, 3.5
ATX05186S-1R	Small	drop, not even, , ,	, , nice skin and size, silver scurf,	3, 3, 3, 3
COTX10073S-1W	Small	, , ,	, , nice size, shape, and skin, yield, white flesh, BOT, , splash, nice size, poor skin finish, light yellow flesh,	3.8, 3.8, 3.8, 3.8
COTX10226S-1W/Y	Small	splash will not sell, , ,	drop, ,	3, 3, 3, 3
AORTX09147-1W	Small	, , ,	too big, poor shape, high set, low number of marketable, drop, , ,	3, 3, 3, 3
NDTX12130CB-1W	Small	low numbers, large and small tubers, , ,	, , nice size, some large, feathering,	3.4, 3.4, 3.4, 3.4
TX13582-3W	Small	, , ,	nice size, skin finish?, white flesh, , ,	3.5, 3.5, 3.5, 3.5
TX13582-5W	Small	, , ,	nice size and shape, keep, , ,	3.6, 3.6, 3.6, 3.6
NDTX071258BS-1R	Small	, low numbers, ,	, , , nice size, silver scurf	3, 3, 3, 3
TX13565-2W	Small	, , ,	too big, drop, , ,	2.5, 2.5, 2.5, 2.5
TX11448S-4R	Small	, , low numbers,	light set, nice size, white flesh, , ,	2, 2, 2, 2
COTX04193S-2R/Y	Small	, scurf++, small, ,	nice size, silver scurf, , ,	2.5, 2.5, 2.5, 2.5
TX13539-4R/Y	Small	good color, poor shape, , ,	, , , too oblong, poor shape, silver scurf, nice flesh	2.5, 2.5, 2.5, 2.5
ATTX05175S-1R/Y	Small	, , ,	, , , nice size, and shape, silver scurf	3.6, 3.6, 3.6, 3.6
AORTX11468-1W	Small	, , light set, late size, drop	nice size, shape and skin, white flesh, , ,	3.8, 3.8, 3.8, 3.8
TX13582-4W	Small	, , ,	nice size, low set, white flesh, , ,	3.5, 3.5, 3.5, 3.5
TX12494-1R/Y	Small	, , ,	ok size, nice flesh, low set, silver scurf, , ,	3, 3, 3, 3
COTX94416-1R	Small	, , ,	too big, low set, drop, , ,	2, 2, 2, 2

## **2016 Small Potato Selections Trial, Dalhart**

The trial consisted of 29 entries of which (ORTX14SP082-3RSPL) will be advanced in 2017 (Table 16).

Dalhart  
Table 16

Inventory weight of 1 entry to be advanced from the  
2015 Small Potato Selection Trial grown near Dalhart,  
Texas-2016.

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Variety or Selection	Trial	Inventory Weight
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ORTX14SP082-3RSPL	15SEL063	1.5
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## Texas Advanced Fingerling Selection Trial, Dalhart

This trial consisted of twelve entries, including the check variety Banana.

Results were as follows: (Dalhart Tables 17a, 17b, 17c, 17d, and 17e)

- COTX08365F-3P/P and COTX08365F-1P/P were the outstanding entries for this trial based on general rating (Table 17a).
- COTX08365F-3P/P had the highest total yield, while Abby had the highest marketable yield (Table 17a)
- COTX08365F-3P/P had the highest yield of oversized tubers. (Table 17a).
- COTX08365F-1P/P and PORTX03PG25-2R/R had the highest percentage of marketable yield. COTX08365F-3P/P had the highest percentage of oversized tubers (Table 17b).
- TX13558-5P/P had the highest average number of tubers per plant (Table 17c).
- COTX08365F-1P/P and TX13544-2R/YRE were the latest in maturity, while CO00405-1RF and PORTX03PG25-2R/R were the earliest in maturity (Table 17c).

### Comments on entries:

- |                    |             |  |
|--------------------|-------------|--|
| • COTX08365F-3P/P  | Long Purple | scurf, poor set, rough, large tubers, no rot, nice skin, FC=3.8  |
| • TX13544-4R/R     | Long Red    | too big, low number, nice skin and flesh, fat, silver scurf, FC=3.8  |
| • Abby             | Long Red    | poor set, light skin, too big, white flesh, silver scurf, FC=1.0   |
| • CO00405-1RF      | Long Red    | drop , too fat, no curve, silver scurf, FC=1.0   |
| • COTX08044F-1R/R  | Long Red    | low number, too long, good skin, nice skin, too rough, some IBS, poor internals, red flesh, FC=3.8           |
| • COTX08365F-1P/P  | Long Purple | ok set, good flesh, ok skin, scurf, all blue like flesh, nice skin, small, not much curve, FC=3.8            |
| • TX13544-2R/YRE   | Long Red    | low set, good flesh, nice skin color, shape??. some red streaks in flesh, FC=2.0                             |
| • PORTX03PG25-2R/R | Long Red    | low numbers, good skin, shape, and flesh, nice skin, too fat and short, nice red flesh, silver scurf, FC=3.5 |
| • TX13541-2P/P     | Long Purple | drop+, rough deep eyes, FC=3.5   |

- TX13558-5P/P      Long Purple      drop bad shape, nice skin, dark flesh, ok shape, less silver scurf, FC=4.5
- Banana              Long White      ugly, very rough, FC=1.0
- TX13558-4P/P      Long Purple      bad shape, dropped, FC=3.8

<sup>1</sup>FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

COTX08365F-3P/P and COTX08365F-1P/P were the outstanding entries based on all factors.



Dalhart  
Table 17a.

Total yield, marketable yield, over sized, under sized, culls/No.2 potatoes, and general rating of 12 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Total Yield Cwt/A	Marketable Yield	Over Sized	Under Sized	Culls/ No.2	General Rating <sup>1</sup> Grading
COTX08365F-3P/P	Fing	356.0	149.2	206.8	0.0	0.0	3.5
TX13544-4R/R	Fing	302.7	151.9	150.8	0.0	0.0	2.5
Abby	Fing	258.2	197.7	60.2	0.4	0.0	2.5
CO00405-1RF	Fing	221.8	181.9	39.7	0.2	0.0	2.5
COTX08044F-1R/R	Fing	218.0	163.8	54.0	0.2	0.0	2.5
COTX08365F-1P/P	Fing	212.5	188.3	22.5	1.6	0.0	3.5
TX13544-2R/YRE	Fing	207.4	129.9	75.2	2.2	0.0	3.0
PORTX03PG25-2R/R	Fing	166.6	147.9	16.8	1.8	0.0	3.4
TX13541-2P/P	Fing	155.9	92.2	63.7	0.0	0.0	2.5
TX13558-5P/P	Fing	139.6	114.8	11.7	13.2	0.0	3.4
Banana	Fing	107.1	57.3	48.3	1.5	0.0	2.5
TX13558-4P/P	Fing	71.0	52.0	19.0	0.0	0.0	2.5
Average		201.4	135.6	64.1	1.8	0.0	2.9
L.S.D. (.05)		29.1	25.6	29.9	5.9	ns	0.1

<sup>1</sup> 1=very poor to 5= excellent

Dalhart  
Table 17b.

Percent by weight of marketable yield, over sized, under sized, culls/No.2 potatoes, tuber type, and skin type of 12 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-

Variety or Selection	Trial	Percent By Weight				Tuber Type	Skin Type
		Marketable Yield	Over Sized	Under Sized	Culls/ No. 2		
COTX08365F-3P/P	Fing	41.9	58.1	0.0	0.0	Long	Purple
TX13544-4R/R	Fing	50.2	49.8	0.0	0.0	Long	Red
Abby	Fing	76.5	23.3	0.1	0.0	Long	Red
CO00405-1RF	Fing	82.0	17.9	0.1	0.0	Long	Red
COTX08044F-1R/R	Fing	75.1	24.8	0.1	0.0	Long	Red
COTX08365F-1P/P	Fing	88.6	10.6	0.8	0.0	Long	Purple
TX13544-2R/YRE	Fing	62.7	36.3	1.1	0.0	Long	Red
PORTX03PG25-2R/R	Fing	88.8	10.1	1.1	0.0	Long	Red
TX13541-2P/P	Fing	59.2	40.8	0.0	0.0	Long	Purple
TX13558-5P/P	Fing	82.2	8.4	9.4	0.0	Long	Purple
Banana	Fing	53.5	45.1	1.4	0.0	Long	White
TX13558-4P/P	Fing	73.2	26.8	0.0	0.0	Long	Purple
Average		69.5	29.3	1.2	0.0		
L.S.D. (.05)		8.6	8.4	3.0	ns		

Dalhart  
Table 17c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 12 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
COTX08365F-3P/P	Fing	7.5	3.4	100	2.3	4.1	3.5	4.0	20
TX13544-4R/R	Fing	6.1	3.7	100	1.8	4.2	4.5	4.2	5
Abby	Fing	8.4	2.2	100	2.5	3.7	3.7	3.6	15
CO00405-1RF	Fing	7.4	2.2	100	2.8	3.7	2.5	3.8	75
COTX08044F-1R/R	Fing	6.1	2.6	100	2.3	3.9	3.6	3.8	20
COTX08365F-1P/P	Fing	9.4	1.7	100	1.5	4.3	5.0	4.5	0
TX13544-2R/YRE	Fing	7.6	2.0	100	1.8	4.2	4.8	4.1	0
PORTX03PG25-2R/R	Fing	7.6	1.6	100	3.0	3.3	3.0	3.4	45
TX13541-2P/P	Fing	4.4	2.6	100	1.5	4.2	5.0	4.1	0
TX13558-5P/P	Fing	10.6	1.0	100	2.0	3.8	4.5	3.9	0
Banana	Fing	4.2	1.9	100	1.8	4.2	4.0	4.3	10
TX13558-4P/P	Fing	3.8	1.4	100	1.5	4.4	4.7	4.3	0
Average		6.9	2.2	100	2.0	4.0	4.1	4.0	16
L.S.D. (.05)		1.7	0.3	ns	0.4	0.3	0.1	0.1	5

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart  
Table 17d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 12 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
COTX08365F-3P/P	Fing	3.8	4.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13544-4R/R	Fing	3.8	4.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Abby	Fing	1.0	4.0	1.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO00405-1RF	Fing	1.0	3.8	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08044F-1R/R	Fing	3.8	3.8	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08365F-1P/P	Fing	3.8	3.8	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13544-2R/YRE	Fing	2.0	4.0	1.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
PORTX03PG25-2R/R	Fing	3.5	4.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13541-2P/P	Fing	3.5	4.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13558-5P/P	Fing	4.5	4.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Banana	Fing	1.0	4.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX13558-4P/P	Fing	3.8	4.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.0	4.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Dalhart  
Table 17e.

Notes and general rating for all reps of 12 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Grading
COTX08365F-3P/P	Fing	, , , scurf, poor set	, , , rough, large tubers, no rot, nice skin	3.5, 3.5, 3.5, 3.5
TX13544-4R/R	Fing	, , , too big, low number	, , , too big, nice skin and flesh, fat, silver scurf	2.5, 2.5, 2.5, 2.5
Abby	Fing	, , , poor set	, , , light skin, too big, white flesh, silver scurf	2.5, 2.5, 2.5, 2.5
CO00405-1RF	Fing	, , , drop	, , , too fat, no curve, silver scurf	2.5, 2.5, 2.5, 2.5
COTX08044F-1R/R	Fing	, low number, too long, good skin, ,	, nice skin, too rough, some IBS, poor internals, red flesh, ,	2.5, 2.5, 2.5, 2.5
COTX08365F-1P/P	Fing	ok set, good flesh, ok skin, scurf, , ,	all blue like flesh, nice skin, small, not much curve, , ,	3.5, 3.5, 3.5, 3.5
TX13544-2R/YRE	Fing	low set, good flesh, , ,	nice skin color, shape[e??], some red streaks in flesh, , ,	3, 3, 3, 3
PORTX03PG25-2R/R	Fing	, , low numbers, good skin, shape, and flesh,	, , nice skin, too fat and short, nice red flesh, silver scurf,	3.4, 3.4, 3.4, 3.4
TX13541-2P/P	Fing	, , , drop	, , , rough deep eyes, drop	2.5, 2.5, 2.5, 2.5
TX13558-5P/P	Fing	, , , drop bad shape	, , , nice skin, dark flesh, ok shape, less silver scurf	3.4, 3.4, 3.4, 3.4
Banana	Fing	, , ,	ugly, very rough, , ,	2.5, 2.5, 2.5, 2.5
TX13558-4P/P	Fing	drop, bad shape, , ,	dropped, , ,	2.5, 2.5, 2.5, 2.5

## **2016 Fingerling Selections Trial, Dalhart**

The trial consisted of 18 entries. (AORTX13021-4/W, AORTX13077-3W, ATX12077-5W, and COTX13008-5W) will be advanced in the 2017 season (Table 18).

Dalhart  
Table 18

Inventory weight of 2 entries to be advanced from the  
2015 Fingerling Selection Trial grown near Dalhart,  
Texas-2016.

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Variety or Selection	Trial	Inventory Weight
AORTX13021-4/W	15SEL118	5.2
AORTX13077-3W	15SEL070	8.7
ATX12077-5W	15SEL333	4.6
COTX13008-5W	15SEL137	13

## Texas Advanced Purple Skin Selection Trial, Dalhart

This trial consisted of four entries.

Results were as follows: (Dalhart Tables 19a, 19b, 19c, 19d, and 19e)

- COTX10138-19P/Y had the highest total and marketable. ATTX98493-2P/P had the highest yield of less than 4 oz. tubers (Table 19a).
- COTX10138-19P/Y had the highest percentage of marketable yield (Table 19b).
- ATTX98493-2P/P had the highest percent yield of less than 4 oz. tubers (Table 19b).
- COTX10138-19P/Y had the highest number of tubers per plant (Table 19c).
- NDTX091886-3P/P was the latest in maturity, while ATX08121-3P/Y was the earliest in maturity (Table 19c).

### Comments on entries:

- COTX10138-19P/Y Oblong Purple poor internals, nice flesh, some IBS, FC=3.5
- ATTX98493-2P/P Round White variable flesh color, nice shape, all Blue like flesh, silver scurf, FC=3.5
- NDTX091886-3P/P Oblong Purple nice skin and flesh, shape??, silver scurf, all Blue like flesh, FC=3.5
- ATX08121-3P/Y Round Purple small, nice skin and flesh, FC=3.5

<sup>1</sup>FC=flesh color rating 1=light to 5= dark

### Summary:

ATTX98493-2P/P was the outstanding entry for this trial based on all factors.



Dalhart  
Table 19a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 4 entries in the Texas Advanced Purple Skin Selection Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
COTX10138-19P/Y	P/Y	560.1	432.3	231.0	157.0	44.3	0.0	127.8	0.0	3.6
ATX98493-2P/P	P/P	425.8	240.6	188.6	52.0	0.0	0.0	185.2	0.0	3.6
NDTX091886-3P/P	P/P	413.4	297.0	186.7	102.3	8.1	0.0	116.4	0.0	3.4
ATX08121-3P/Y	P/Y	216.7	104.0	84.2	19.8	0.0	0.0	112.7	0.0	3.4
Average		404.0	268.5	172.6	82.8	13.1	0.0	135.5	0.0	3.5
L.S.D. (.05)		73.6	59.5	40.1	27.6	15.4	ns	ns	ns	0.1

<sup>1</sup> 1=very poor to 5= excellent

Dalhart  
Table 19b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 4 entries in the Texas Advanced Purple Skin Selection Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
COTX10138-19P/Y	P/Y	77.2	41.2	28.0	7.9	0.0	22.8	0.0	1.043	10.2	Oblong	Purple
ATTX98493-2P/P	P/P	56.5	44.3	12.2	0.0	0.0	43.5	0.0	1.057	12.6	Round	White
NDTX091886-3P/P	P/P	71.8	45.2	24.7	1.9	0.0	28.2	0.0	1.068	14.7	Oblong	Purple
ATX08121-3P/Y	P/Y	48.0	38.9	9.1	0.0	0.0	52.0	0.0	1.056	12.4	Round	Purple
Average		63.4	42.4	18.5	2.5	0.0	36.6	0.0	1.056	12.5		
L.S.D. (.05)		10.0	ns	7.4	2.0	ns	9.9	ns	0.004	0.7		

Dalhart  
Table 19c.

Average number of tubers per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 4 entries in the Texas Advanced Purple Skin Selection Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
COTX10138-19P/Y	P/Y	11.2	3.7	100	1.5	3.8	3.6	3.6	25
ATTX98493-2P/P	P/P	10.9	2.9	100	3.0	3.5	3.3	3.6	40
NDTX091886-3P/P	P/P	10.1	3.0	100	2.0	4.2	5.0	4.2	0
ATX08121-3P/Y	P/Y	7.8	2.0	100	2.0	3.8	3.0	3.7	45
Average		10.0	2.9	100	2.1	3.8	3.7	3.8	28
L.S.D. (.05)		2.5	0.6	ns	0.1	0.1	0.1	0.1	5

<sup>1</sup> 1= upright, 2= semiprostrate, 3= prostrate

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

<sup>3</sup> 1= very early, 2= early, 3= medium, 4=late, 5= very late

<sup>4</sup> 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart  
Table 19d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 4 entries in the Texas Advanced Purple Skin Selection Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
COTX10138-19P/Y	P/Y	3.5	2.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	8
ATTX98493-2P/P	P/P	3.5	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX091886-3P/P	P/P	3.5	3.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX08121-3P/Y	P/Y	3.5	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.5	2.4	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	2

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

<sup>2</sup> 1=round to 5=long

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

<sup>4</sup> 1=deep to 5=shallow

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

<sup>6</sup> 1 to 5=none

<sup>7</sup> 1 to 5=none

<sup>8</sup> 1 to 5=none

<sup>9</sup> 1 to 5=none

<sup>10</sup> 1 to 5=none

<sup>11</sup> Stem end vascular discoloration severely evaluated

Dalhart  
Table 19e.

Notes and general rating for all reps of 4 entries in the Texas Advanced Purple Skin Selection Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Notes Grading	General Rating Grading
COTX10138-19P/Y	P/Y	, , poor internals, nice flesh, some IBS, , , variable flesh color, nice shape, all Blue like flesh,	3.6, 3.6, 3.6, 3.6
ATTX98493-2P/P	P/P	silver scurf, , , nice skin and flesh, shape??. silver scurf, all Blue	3.6, 3.6, 3.6, 3.6
NDTX091886-3P/P	P/P	like flesh	3.4, 3.4, 3.4, 3.4
ATX08121-3P/Y	P/Y	small, nice skin and flesh, , ,	3.4, 3.4, 3.4, 3.4

## **2016 Purple Skin Selection Trial, Dalhart**

The trial consisted of 4 entries. (TX14626-1R/R<sub>Y</sub> and TX14626-2R/R<sub>Y</sub>) will be advanced in the 2017 season (Table 20).

Dalhart  
Table 20

Inventory weight of 2 entries to be advanced from the  
2015 Purple Skin Selection Trial grown near Dalhart,  
Texas-2016.

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Variety or Selection	Trial	Inventory Weight
TX14626-1R/R	15SEL225	4.5
TX14626-2R/R	15SEL226	29.9

## Appendix A. General notes on potato varieties or selections- 2016.

BC=brown center  
BOT=Best of Trial  
D/K=drop/keep  
FC=flesh color 1-5=dark  
GH=green head  
HH=hollow heart  
IBS=internal brown spot  
MB=mahogany browning  
Mech=mechanical damage  
SE=sugar ends  
Stem = Stem end discoloration  
TM=tuber moth

105/2/W/06(Libertie)-Oblong White. Parentage (Harmony x Divaa). Cross was made and selected by Caithness Potatoes.

Uses: Fresh

Strength: yield+, smooth skin, nice shape, white flesh, uniform

Weakness: heat sprouts, drop+, variable size, variable shape and size, FC=1.0

A03141-6-Oblong Russet. Parentage (A098083-9 x Premier Russet). Cross was made and selected in Aberdeen. Early maturity. Medium-small vine size. White flower color.

Uses: dual

Strength: nice shape

Weakness: deep eyes, drop, feathering, light skin, heat sprouts, small rough, pointed, light skin, skinny

A03921-2- Long Russet. Parentage (A96953-13 x A93005-10). Cross was made and selected in Aberdeen. Medium-early maturity. Medium-large vine size. Purple flower color.

Uses: dual

Strength: very white flesh

Weakness: pointed, light skin, small, some road map

A06336-2Y-Oval White. Parentage (VC1009-1W/Y x US 147-96 R/Y). Cross was made and selected in Aberdeen. Medium-early maturity. Medium vine size. Light Purple flower color.



Uses: fresh

Strength: red eyes nice flesh smooth skin

Weakness: some pear shaped, skin color??, light set, small, FC=3.3

A06336-5Y-Oval White. Parentage (VC1009-1W/Y x US 147-96 R/Y). Cross was made and selected in Aberdeen. Medium-early maturity. Medium vine size. Light Purple flower color.

Uses: fresh

Strength: high set nice size small potato, nice shape and flesh

Weakness: small, very small, skin color??, small potato, FC=3.0

Abby-Long Red/Yellow. Parentage (Cecile x Red Scarlett) Clone is owned by Stet Holland

Uses: fresh

Strength: BOT, nice shape, yield++ smooth

Weakness: poor set, light skin, too big, silver scurf, light flesh, not curved, FC=2.5

AC01144-1W-Round White. Parentage (COA96141-2 x Willamette). Cross was made in Aberdeen and selected in Colorado. Medium maturity. Medium-large vine size. White flower color

Uses: chip

Strength: uniform

Weakness: light set, small

Chip Notes: CR=1

AC03534-2R/Y-Oval Red. Parentage (ATA98472-2Y x Mazama). Cross was made in Aberdeen and selected in Colorado. Medium maturity. Medium-large vine size. Purple flower color.

Uses: fresh

Strength: very nice yellow flesh, nice skin color nice size and shape

Weakness: small, many B's, small potato silver scurf, FC=3.5

AC05153-1W-Round White. Parentage (A91814-5 x Chipeta). Cross was made in Aberdeen and selected in Colorado. Very early-early maturity. Medium-small vine size. White flower color.

Uses: chip

Strength: nice size, nice, smooth+, nice shape

Weakness: some rough

Chip Notes: CR=1

AC05175-3P/Y-Oval Purple. Parentage (A99331-2R/Y x COA99261-1RY). Cross was made in Aberdeen and selected in Colorado. Very early maturity. Small vine size. Dark purple flower color.

Uses: fresh

Strength: nice skin finish, yellow flesh, smooth, nice color, shape, and flesh, BOT

Weakness: deep eyes, heat sprouts, FC=4.0

Actrice-Oblong White. Parentage (DENISE x AGATA). Cross made in Holland.

Uses: fresh

Strength: BOT+, nice, large tubers, nice size and flesh, smooth, nice size profile

Weakness: FC=3.0

AF4648-2-White. Parentage (NY132 x Liberator). cross made and selected in Maine at Aroostook Farm.

Uses: chip

Strength: smooth, nice skin

Weakness:

Chip Notes: CR=1

AO03123-2-Oblong Russet. Parentage (A98082-17 x Premier R). Cross was made in Aberdeen and selected in Oregon. Medium-late maturity. Medium-small vine size. White flower color.

Uses: duel

Strength: nice shape

Weakness: skinny, curved, light skin, small

AO06191-1-Oblong Russet. Parentage (A99134-1 x AC92009-4RU). Cross was made in Aberdeen and selected in Oregon. Medium-early maturity. Medium vine size.

Uses: duel

Strength: nice dark skin

Weakness: curved, rough, large tubers, pointed, small

AOR06070-1KF-Oblong Russet. Parentage (Premier R x AO96164-1). Cross was made in Aberdeen and selected in Oregon.

Uses: process

Strength: nice shape nice skin

Weakness: small, second set, pointed poor russet skin, drop, some road map, small

AOR09034-3-Round White. Parentage (Boulder x A03449-2C). Cross was made in Aberdeen and selected in Oregon. Medium maturity. Large vine size. White flower color.

Uses: chip

Strength: uniform, smooth

Weakness: some rough, low yield, small

Chip Notes: CR=1keep-; 1 sugar

AORTX09032-3W-Oblong White. Parentage (A03449-2C x Ivory Crisp). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: chip

Strength: nice shape smooth

Weakness: low yield small, ZC

Chip Notes: DROP- nice, CR=2

AORTX09033-11W-Oblong White. Parentage (CO96141-4W x Ivory Crisp). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: chip

Strength: smooth very nice, uniform, BOT

Weakness: variable shape, light set, too small

Chip Notes: NICE BOT, keepCR=1

AORTX09033-14W-Oblong White. Parentage (CO96141-4W x Ivory Crisp). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: chip  
Strength: smooth  
Weakness: some flat, deep eyes  
Chip Notes: BOT, CR=1.0

AORTX09033-4W-Oblong White. Parentage (CO96141-4W x Ivory Crisp). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: chip  
Strength: smooth  
Weakness: some rough small, light set  
Chip Notes: NICE, KEEP, 2 MB, CR=1

AORTX09037-1W-Oblong White. Parentage (Fasan x Ivory Crisp). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: chip  
Strength: smooth, uniform, light yellow flesh, very nice yield+  
Weakness:  
Chip Notes: BOT drop, CR=2

AORTX09037-3W/Y-Round White/Yellow. Parentage (Fasan x Ivory Crisp). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: chip  
Strength: smooth, light yellow flesh  
Weakness:  
Chip Notes: nice, yellow, CR=2.0

AORTX09037-4W-Oblong White. Parentage (Fasan x Ivory Crisp). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: chip  
Strength: nice size and shape nice skin, BOT  
Weakness: small

Chip Notes: keep- BOT, CR=1

AORTX09037-5W-Round White. Parentage (Fasan x Ivory Crisp). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: chip

Strength: uniform, nice size and shape light yellow flesh

Weakness:

Chip Notes: BOT, nice, CR=1.0

AORTX09144-2W-Round White. Parentage (A02516-102LB x PALB03016-3). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: chip

Strength: uniform, nice shape

Weakness:

Chip Notes: BOT, CR=1.0

AORTX09147-1W- Dropped-Oblong White. Parentage (A02516-102LB x A98334-2). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: fresh

Strength: smooth, white flesh high set

Weakness: too big, poor shape, low number of marketable, drop, oblong shape, very small, variable shape, fingerling??. FC=1.0

AORTX10247-1W/Y-Oblong White. Parentage (Lady Britta x NY139). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: chip

Strength: smooth, nice shape and size, nice flesh nice yellow flesh,

Weakness: small, ZC+

Chip Notes: Keep, yellow, CR=2.0

AORTX11468-1W-Dropped-Round White. Parentage (A03449-2C x MSJ316A-LF). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: fresh

Strength: white flesh high set

Weakness: variable size, low yield, too small, light set, late size, drop ZC, FC=1.0

AORTX11476-2W-Oblong White. Parentage (A05158-2C x MSJ316A-LF). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: chip

Strength:

Weakness: light set, rough, too small,

Chip Notes: keep, CR=2

AORTX11913-3Wre/Y-Round White-Red Eye/Yellow. Parentage (A03576-5Y x NDA050237B-1R). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: fresh

Strength: splash, nice shape

Weakness: small, very light yellow flesh, some IBS, FC=1.5

AORTX11913-4P-Dropped-Oblong Purple. Parentage (A03576-5Y x NDA050237B-1R). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: fresh

Strength: white flesh keep, nice skin finish nice flesh ok numbers

Weakness:, silver scurf, sticky stolon variable skin, small, poor shape, too small, drop++, FC=1.0

AORTX11913-5P-Dropped-Oblong Purple. Parentage (A03576-5Y x NDA050237B-1R). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: fresh

Strength: keep, nice skin finish, nice uniform size, nice color, very white flesh, high set, BOT, numbers ok

Weakness: poor skin, too big silver scurf, drop, small, FC=1.0

AORTX11913-6P/Y-Dropped-Oblong White. Parentage (A03576-5Y x NDA050237B-1R). Cross was made in Aberdeen, tuberling produced in Oregon and selected in Texas.

Uses: fresh

Strength: very heavy set, nice size, nice flesh

Weakness: poor skin color, small, has dark purple eyes, too big drop, light flesh, FC=3.0

Atlantic-Round White. Parentage (Wauseon x Lenape). Cross was-made in Beltsville, Maryland, and selected in Maine. Released in 1976 by USDA-ARS, Florida, Virginia, New Jersey and Maine Agricultural Experiment Stations. Medium maturity. Medium vine size. Pale lavender flower color.

Uses: chip

Strength: buff skin, nice shape

Weakness: internals? Poor internals

Chip Notes: keepCR=1

ATTX05175S-1R/Y-Round Red/Yellow. Parentage (A99331-2RY X COA99261-IRY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: nice shape, nice flesh, BOT+

Weakness: silver scurf, very small, light skin, FC=3.5

ATTX05186-2R-Oblong Red. Parentage (A99433-5Y x VC1075-1R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: heavy set move to small trial white flesh nice shape uniform

Weakness: small, some spreading, many B's, very small silver scurf light set

ATTX07042-3W/Y-Dropped-Oblong White/Yellow. Parentage (Western russet EM x A02086-10 EM 500). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: nice size and shape, light yellow flesh, smooth, keep BOT, yield+

Weakness:

Chip Notes: nice, CR=2

ATTX10265-4R/Y-Oblong Red/Yellow. Parentage (A02267-2PY X US 147-96RIY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: heavy set, nice flesh smooth skin, nice shape and flesh BOT

Weakness: some flat light skin, shape??, small, FC=3.5

ATTX11476-11W-Dropped-Oblong White. Parentage (A05158-2C X MSJ316A-LF). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength:

Weakness: low yield, light set, drop,

Chip Notes: Keep-drop, CR=3

ATTX11484-3W-Round White. Parentage (A05158-2C X 00-3115-11). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: chip

Strength: large tubers, nice shape and size, BOT-

Weakness: shatter bruise, poor internals++, rough, deep eyes

Chip Notes: drop 1GH, keep, CR=3

ATTX961014-1R/YChimera-Dropped-Chimera Red/Yellow Parentage (A90601-2RDY X MAZAMA). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: nice shape

Weakness: small, purple vascular ring, not chimera, silver scurf, FC=2.5

ATTX98444S-16R/Y-Oblong Red/Yellow. Parentage (A83360-9R X T48YF). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.



Uses: fresh

Strength: very heavy set, very nice flesh, numbers good, good shape and flesh BOT++

Weakness: poor skin, silver scurf, small, FC=4.0

ATX98453-6R-Dropped-Round Red. Parentage (A93490-1R x A91846-5R). Cross was made in Aberdeen, tuberling produced in Texas and selected in Texas. Late maturity. Medium-large vine size. Lavender flower color.

Uses: fresh

Strength: large tubers nice shape, nice color

Weakness: drop, variable size, some rough, some buff silver scurf

ATX98493-2P/P-Purple/Purple. Parentage (P94A2-3Y X BO811-13RY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: nice shape, smooth skin

Weakness: light purple flesh, all blue like flesh, silver scurf, FC=4.0

ATX98514-1R/Y-Oblong Red Parentage (T51YF X A93456-6R). Cross was made in Aberdeen, tuberling produced in Texas and selected in Texas.

Uses: fresh Strength nice flesh, skin, and shape:

Weakness: light yellow flesh, drop++, ZC, hollow heart++, light skin color, some rough, silver scurf, FC=3.5

ATX05186S-1R- Dropped Oblong Red. Parentage (A99433-5Y x VC1075-1R). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: pretty red nice skin nice size

Weakness: rough, drop, deep eyes??, some road map, not even silver scurf, FC=1.0

ATX05202S-3W/Y-Oblong White/Yellow. Parentage (A00286-3Y x A99433-5Y). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: high set yield+ BOT+, nice shape good numbers and shape keep

Weakness: heat sprouts, drop, very small, light flesh, poor skin, too big, scurf++FC=2.0

ATX06264S-4R/Y-Round Red/Yellow. Parentage (A99331-2RY x Durango Red). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength:

Weakness: silver scurf, FC=3.5

ATX08117-3P- Dropped Purple Parentage (A02267-2PY x COA01406-1R). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: high set, very white flesh less scurf, good skin, nice shape and size, good numbers

Weakness: white flesh will not sell, drop, small, FC=1.0

ATX08121-3P/Y-Purple/Purple. Parentage (A02267-5PY x CO98012-5R). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: yellow flesh keep, uniform, smooth nice skin and flesh

Weakness: small, FC=3.5

ATX08121-5R-Oblong Red. Parentage (A02267-5PY x CO98012-5R). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: nice shape and color

Weakness: variable size, drop, large tubers, light skin silver scurf

ATX10675-1Ru-Long Russet Parentage (A05379-217 x Dakota Trailblazer). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: very nice shape and skin, blocky, BOT

Weakness: pointed, very light skin, road map, small, drop++

ATX11354-1W- Dropped Oblong White. Parentage (AF2850-9 x A01025-4). Cross was made in Aberdeen and selected in Texas.

Uses: chip

Strength: nice, keep

Weakness: feathering

Chip Notes: 1 sugar, CR=1.0

ATX11952-1Ru-Long Russet Parentage (A02515-2 x A98196-5). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength:

Weakness: variable size, blocky, small, deep eyes, growth cracks, poor skin some rough, skinny

ATX84378-6Ru-Dropped-Oblong-Long Russet. Parentage (A79141-9 x ND329-1). Cross was made in Aberdeen, and selected in Texas. Medium-early maturity. Medium vine size. White flower color.

Uses: fresh

Strength:

Weakness: small, blocky, did not size, drop, too round flat, rough, blocky, poor shape

B2727-2-Parentage (??) Cross was made and selected in Beltsville, MD

Uses: chip

Strength: nice size and shape yield+

Weakness: , light set, some rough,

Chip Notes: nice, CR=1

Banana-Long White. Parentage (Grown in British Columbia for over 90 years. Research indicates that the variety might have been introduced to early settlers and natives by Russian fur traders. The exact origin, parental lines or breeding techniques used in its development are not known.)

Uses: fresh

Strength: lots of marketable nice flesh

Weakness: more culls some large

Banff-Parentage (??)

Uses: fresh

Strength:

Weakness: rough, drop, too oblong for chip, french fry, smooth,

BTX1749-1W/Y-Oblong White/Yellow. Parentage (K7-6 x BO925-4). Cross was made in Beltsville, Maryland and selected in Texas. Medium maturity. Large vine size.

Uses: fresh.

Strength: nice shape

Weakness: heat sprouts, variable size, road map, poor skin finish, some IBS, some buff skin,

FC=2.0

BTX2103-1R/Y-Oblong Red/Yellow. Parentage (BO811-13 x ARS-W82-21285-1). Cross was made in Beltsville, Maryland and selected in Texas. Late maturity. Medium vine size. Red-purple flower color.

Uses: fresh

Strength: nice color, smooth, nice dark yellow flesh nice shape

Weakness: small, light set, silver scurf, FC=4.0

BTX2332-1R-Oblong Red. Parentage (B1523-4 x Super Red Norland). Cross was made in Beltsville, MD and selected in Texas. Medium maturity. Large vine size. Lavender flower color

Uses: fresh

Strength: nice shape big size nice size, BOT

Weakness: light set, some buff silver scurf

Bute-Parentage (Harmony x (Valor x Nicola).

Use: fresh

Strength: Bruce likes, heavy set, smooth skin

Weakness: lenticels, poor skin finish, poor shape, small, drop, uneven russeting, FC=1.0

Chieftian-Round Red. Parentage (Ia1027-18 x La1354). Cross was made and selected at Iowa State University.

Uses: fresh

Strength: yield+, large tubers

Weakness: light skin, silver scurf

CIT #1-Oblong White. Parentage (??) Clone entered by Agriculture and Agri-Food Canada.

Uses: chip

Strength: smooth, nice yellow flesh

Weakness: poor, shape, low yield, ZC

Chip Notes: Yellow, CR=3

CIT #10-Red. Parentage (??) Clone entered by Real Potatoes.

Use: fresh

Strength:

Weakness: light yellow, drop, poor shape, pointed, rough, FC=3.3

CIT #2-White. Parentage (??) Clone entered by Agriculture and Agri-Food Canada.

Use: fresh

Strength: heavy set

Weakness: heat sprouts+, variable size, drop, lenticels, FC=2.0

CIT #3-Red. Parentage (??) Clone entered by Agriculture and Agri-Food Canada.

Uses: fresh

Strength: smooth skin, nice flesh,

Weakness: interior light red flesh, some road map, some rough, FC=3.7

CIT #4-White. Parentage (??) Clone entered by Agriculture and Agri-Food Canada.

Use: fresh

Strength: smooth, nice shape

Weakness: FC=1.0

CIT #5-Long White. Parentage (??) Clone entered by McCain Foods USA.

Uses: fry

Strength:

Weakness: poor shape, french fry, rough, drop

Chip Notes= CR=1

CIT #6-Oblong White. Parentage (??) Clone entered by McCain Foods USA.

Uses: fry

Strength: : russet

Weakness: poor shape

Chip Notes: CR=1

CIT #7-Round White. Parentage (??) Clone entered by McCain Foods USA.

Uses: fry

Strength: russet

Weakness: small

Chip Notes: 1DK, CR=2

CO00277-2R-Red. Parentage (??). Cross was made and selected in Colorado.

Uses: fresh

Strength: high set nice skin dark skin color

Weakness: silver scurf growth cracks, variable size, many B's, very small, ZC

CO00405-1RF-Long Red. Parentage (Banana x NDC6174-1R). Cross was made and selected in Colorado.

Uses: fresh

Strength:

Weakness: drop, too fat, no curve, silver scurf, FC=1.0

CO02321-4W-Oblong White. Parentage (NY115W x BC0894-2W). Cross was made and selected in Colorado. Medium maturity. Medium-large vine size. Light purple flower color.

Uses: chip

Strength: smooth skin, uniform BOT

Weakness: small, light yellow flesh

Chip Notes: keep, CR=2

CO03243-3W-Round White. Parentage (BC0894-2W x A91790-13). Cross was made and selected in Colorado. Medium maturity. Large vine size. Light purple flower color.

Uses: chip

Strength: uniform smooth nice size, BOT-

Weakness: small

Chip Notes: nice, CR=2

CO04220-7RU-Long Russet. Parentage (CO96109-7RU x Summit Russet). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White flower color.

Uses: dual

Strength: nice heavy set, nice skin

Weakness: skinny, pointed, too small, variable size, drop

CO05035-1PW/Y-Oblong Purple-White/Yellow. Parentage (Masquerade x US147-96). Cross was made and selected in Colorado. Medium maturity. Large vine size. Red-purple flower color.

Uses: fresh

Strength: nice shape, nice purple color, light yellow flesh

Weakness: rough, light purple skin, flesh, silver scurf, some hollow heart, FC=3.0

CO05068-1RU-Oblong Russet. Parentage (AWN86514-2 x CO98009-3RU). Cross was made and selected in Colorado. Medium maturity. Large-very large vine size. White flower color.

Uses: dual

Strength:

Weakness: drop+++ , very small, feathering, heat sprouts++ blocky, round to oblong, flat, skinny, deep eyes

CO05152-5RU-Russet. Parentage (CO94035-15RU x AC96052-1RU). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

Uses: fresh

Strength: heavy set nice skin

Weakness: late, heat sprouts, very small, second set

CO05175-1RU-Long Russet. Parentage (CO94035-15RU x AC96052-1RU). Cross was made and selected in Colorado. Medium maturity. Large vine size. White flower color.

Uses: dual

Strength:

Weakness: poor shape, drop++, curved, pointed, too long

CO07070-10W-Oval White. Parentage ( B0766-3T x CO00188-4W). Cross was made and selected in Colorado. Medium maturity. Medium to large vine size. Purple flower color

Uses: chip

Strength: smooth

Weakness: some rough, light set, low yield

Chip Notes: K; 1 GH, CR=1

CO07070-13W-Oval White. Parentage (B0766-3T x CO00188-4W). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color

Uses: chip

Strength: uniform, nice size and shape heavy set

Weakness: ZC

Chip Notes: CR=1

CO08065-2RU-OblongRusset. Parentage (Premier Russet x AC98043-2RU). Cross was made and selected in Colorado. Medium maturity. Medium-large vine size. White flower color.



Uses: fresh

Strength: nice dark skin, very nice skin finish nice shape

Weakness: oblong variable size, small

CO08155-2RU/Y-Oblong Russet. Parentage (Fortress Russet x Innovator). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White flower color.

Uses: fresh

Strength: nice light yellow flesh, nice shape

Weakness: drop, light skin, skinny

CO08231-1RU-Oblong Russet. Parentage (Crestone Russet x Sage Russet). Cross was made and selected in Colorado. Medium maturity. Large vine size. White flower color.

Uses: fresh

Strength: nice shape

Weakness: variable size, drop, small, light skin second set

CO99256-2R-Round Red. Parentage (Rio Colorado x Colorado Rose). Cross was made and selected in Colorado. Medium maturity. Large vine size. Purple flowers.

Uses: fresh

Strength: nice skin color, smooth, nice shape

Weakness: small, silver scurf, heat spouts, drop

COA07365-4RY- Round Red/Yellow. Parentage (US147-96 x CO99256-2R). Cross was made in Colorado and selected in Aberdeen. Medium-early maturity. Medium vine size. Red purple flower color

Uses: fresh

Strength: heavy set nice skin nice shape

Weakness: small, many B's, light set, small, silver scurf, FC=3.0

COTX00104-6R- Round Red. Parentage (ND3574-5R X C086218-2). Cross was made in Colorado and selected in Texas. Early Maturity. Medium vine size. Purple flower color.

Uses: fresh

Strength: nice shape

Weakness: silver scurf, road map, poor skin, many B's

COTX01403-4R/Y-Oblong Red/Yellow Parentage (VC1015-7R/Y x Winema). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice shape

Weakness: road map, poor skin, many B's silver scurf

COTX03134-1W-Round White. Parentage (Laratte x PA97B36-3). Cross was made in Colorado and selected in Texas. Late maturity. Small vine size. Red purple flower color.

Uses: fresh

Strength: nice size, BOT for small potato, smooth, nice shape

Weakness: lots of smalls, white flesh, FC=1.0

COTX04050S-1P/P-Oblong Purple/Purple. Parentage (CO97215-2P/P x CO97306-2P/P). Cross was made in Colorado and selected in Texas

Uses: fresh

Strength: purple flesh, nice shape, very dark flesh, keep numbers good and flesh, good skin keep, nice size and shape

Weakness: heat sprouts, drop, skin color??. some feathering, scurf++FC=5.0

COTX04193S-2R/Y-Oblong Red/Yellow. Parentage (ATC98515-1R/Y x ND3574-5R). Cross was made in Colorado and selected in Texas. Medium-early maturity. Small vine size.

Uses: fresh

Strength: very nice skin and flesh, BOT++

Weakness: scurf++, small, nice size, silver scurf, FC=4.0

COTX05249-3WRE/Y-Round White. Parentage (CO00320-1R x ATC98509-1R/Y) Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: : heavy set, move to small trial

Weakness: small, mixed flesh, light set, not red eye, drop+++ , light flesh, red eyes, some rough, light flesh, small, FC=2.0

COTX07054-2R-Oblong Red. Parentage (ATDC9801-3P x CO99076-6R) Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice skin, nice size keep, BOT-, nice shape, uniform

Weakness: small, silver scurf

COTX07382-2W/Y-Dropped-Oblong White/Yellow. Parentage (Blazer Russet x Innovator) Cross was made in Colorado and selected in Texas. Medium maturity. Medium vine size. White flower color.

Uses: fresh

Strength:

Weakness: light set and flesh, drop, variable size, lenticels, too rough, poor shape, FC=2.0

COTX08044F-1R/R-Dropped-Long Red. Parentage (FF x KP x FF x KP) Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice skin finish and color nice red flesh

Weakness: low number, too long, not very curved, small, too rough, some IBS, poor internals, FC=3.5

COTX08365F-1P/P-Long Purple/Purple. Parentage (POR01PG16-1 x CO00405-1R) Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice very nice flesh purple flesh

Weakness: lots of small tubers, not as curved, high set, scurf, all blue like flesh, FC=3.8

COTX08365F-3P/P-Dropped-Long Purple. Parentage (POR01PG16-1 x CO00405-1R) Cross was made

in Colorado and selected in Texas.

Uses: fresh

Strength: smooth nice skin no rot, purple flesh, BOT

Weakness: oversized, feathering, all blue like flesh, not as curved, scurf, poor set, rough, large tubers, FC=4.0

COTX09022-3RuRE/Y-Oblong Russet Parentage (A00286-3Y x CO99100-1RU) Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: red eyes nice flesh BOT-, yield+

Weakness: round to oblong shape

COTX09052-2Ru-Long Russet. Parentage (CO03202-1RU x CO98067-7RU) Cross was made in Colorado and selected in Texas. Medium maturity. Medium-large vine size. White flower color.

Uses: fresh

Strength: nice skin high set

Weakness: variable size, very small, drop

COTX10010-1Ru-Dropped-Long Russet. Parentage (A0008-1TE x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice skin and shape

Weakness: small, light set, too small, curved, skinny, pointed, IBS drop++

COTX10073S-1W-Oblong White. Parentage (A97066-42LB x Alpine Russet). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: high set, nice shape, nice size and skin, yield smooth BOT

Weakness: white flesh, drop, FC=1.0

COTX10079-11W-Dropped Oblong White. Parentage (CO03273-7W x CO02321-4W). Cross was made

in Colorado and selected in Texas.

Uses: chip

Strength: yield+, nice shape, nice, uniform, keep BOT+

Weakness: large tubers

Chip Notes: nice BOT, CR=1

COTX10080-2Ru-Long Russet. Parentage (CO03364-5RU x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice skin, heavy set++, nice shape, smooth BOT

Weakness: ZC, deep eyes, small

COTX10097-2W/Y-Oblong White. Parentage (CO04067-10W/Y x CO00412-5W/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: yield+, nice shape and flesh, BOT+

Weakness: variable size, FC=3.5

COTX10118-1RE/Y-Dropped-Parentage (07S019 x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness:

COTX10118-4PuE/Y-Dropped-Oblong Purple/Yellow. Parentage (07S019 x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness:

COTX10138-19P/Y-Oblong Purple. Parentage (AC99329-7PW/Y x AC03534-2R/Y). Cross was made

in Colorado and selected in Texas.

Uses: fresh

Strength: yellow flesh, keep, nice shape

Weakness: poor internals poor flesh, some IBS, FC=4.0

COTX10138S-7WPE/Y-Round White. Parentage (AC99329-7PW/Y x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: good numbers and shape, keep, good skin, yield+, nice shape and flesh BOT

Weakness: purple eyes, cull purple eyes drop

COTX10141-11Ru- Dropped Long Russet Parentage (AC00395-2RU x CO03177-2RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: no hollow heart on large tubers

Weakness: larger tubers, rough, light set blocky, oversized, some rough

COTX10141-12Ru-Dropped Long Russet Parentage (AC00395-2RU x CO03177-2RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: rough, oversized, light set, IBS

COTX10226S-1WRE/Y-Dropped Round White Parentage (CO04117-5PW/Y x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: red eyes, nice shape and flesh nice size

Weakness: splash will not sell, poor skin finish, light yellow flesh, drop, FC=3.0

COTX12226-1Ru-Dropped-Long Russet Parentage (A02507-2LB x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: curved, some rough, long flat, poor internals, drop+++

COTX12235-1W-Dropped- Round White. Parentage (AC00206-2W x AC03433-1W). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength: nice round shape, BOT

Weakness:

Chip Notes: nice, CR=1.0

COTX12235-2W-Round White. Parentage (AC00206-2W x AC03433-1W). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength: nice, keep

Weakness:

Chip Notes: keep, CR=1.0

COTX12236-3W-Dropped-Round White. Parentage (AC00206-2W x CO02024-9W). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength: nice, keep

Weakness:

Chip Notes: BOT-, CR=1.0

COTX12370-2Ru-Dropped-Long Russet. Parentage (CO06021-1RU x CO05206-8RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: blocky, poor shape, pointed

COTX12428-1W-Round White. Parentage (MSQ070-1 x CO02024-9W). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength: uniform, keep

Weakness:

Chip Notes: keep, CR=1.0

COTX12428-2W-Dropped Parentage (MSQ070-1 x CO02024-9W). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice shape

Weakness:

Chip Notes: keep, CR=1.0

COTX94416-1R-Dropped Parentage (??). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: too big, low set, drop, FC=1.0

Electra-Round White. Parentage (C1992/42 x Picasso). Cross made in Ireland

Uses: fresh

Strength: heavy set nice flesh nice shape yield++ smooth skin

Weakness: heat sprouts+, variable size, drop+, poor skin finish, small,

Gouda-Parentage (??)

Uses: fresh

Strength:

Weakness: poor shape, rough, heat sprouts, light yellow flesh, french fry, light russet, CR=3

Kag-Parentage (??)

Uses: fresh



Strength: smooth skin

Weakness: heat sprouts, drop+, ZC, small, poor shape, variable size, light flesh, FC=2.5:

Lamoka-Round White Parentage (NY120 x NY115). Crass was made and selected in New York. Late maturity. White-tipped magenta flower color.

Uses: chip

Strength: nice size, uniform

Weakness: light set, low yield

Chip Notes: keep-, CR=1

Maybell-Oblong White. Parentage (Santana x Triplo). Clone entered by De Nijs Potatoes.

Uses: fresh

Strength: yellow flesh smooth skin, large tubers

Weakness: poor shape, low yield, light set, light flesh, FC=2.5

Merlot-Long Red/Red. Parentage (French Fingerling x Red Gold).

Uses: fresh

Strength:

Weakness:

MSM246-B-Round White Parentage (MSE274-A x NY115). Clone entered by Michigan State University

Uses: chip

Strength:

Weakness: buff, small

Chip Notes: keep-, CR=1

MSQ086-3-Round White Parentage (Onaway x Missaukee). Clone entered by Michigan State University

Uses: chip

Strength: smooth, nice skin, uniform, heavy set, yield+, BOT-

Weakness:

Chip Notes: keep-, CR=1

MSR127-2-Round White Parentage (MSJ167-1 x MSG227-2). Clone entered by Michigan State University

Uses: chip

Strength: smooth

Weakness: feathering

Chip Notes: nice, CR=1

MSW358-3-Oblong White. Parentage (??). Clone entered by Michigan State University.

Uses: chip

Strength: uniform yield+

Weakness: Russet to buff skin, small

Chip Notes: keep-CR=2

MSW485-2-Oblong White. Parentage (??). Clone entered by Michigan State University.

Uses: chip

Strength: heavy set++

Weakness: sticky stolon, rough, small, drop

Chip Notes: CR=1

MSW509-5-Round White. Parentage (??). Clone entered by Michigan State University.

Uses: chip

Strength:

Weakness: buff, small, deep eyes light set, low yield

Chip Notes: drop, CR=1

MSY301-2-Long White. Parentage (??). Clone entered by Michigan State University.

Uses: chip

Strength: smooth, nice shape

Weakness: some rough, light set

Chip Notes: 1GH, CR=1

Munich-Oblong White. Parentage (??)

Uses: chip

Strength:

Weakness: french fry, light set, poor internals, CR=1

NC0349-3-Round White. Parentage (Snowden X B0564-9). Clone entered by North Carolina State University.

Uses: chip

Strength: uniform, nice shape

Weakness: buff

Chip Notes: nice, CR=1

NDA081453CAB-2C-Round White. Parentage (Dakota Diamond x ND 039173CAB-22). Cross made in North Dakota and selected in Aberdeen. Medium-early maturity. Medium vine size. White flower color.

Uses: chip

Strength: uniform, smooth

Weakness:

Chip Notes: K, CR=2

NDC081655-1R-Round Red. Parentage (ND8555-8R x ND6126-4R). Cross was made in North Dakota and selected in Colorado. Early maturity. Small vine size. Purple flower color.

Uses: fresh

Strength: nice skin color

Weakness: small potato

NDTX050070-1R-Dropped-Round Red. Parentage (ND 8375b-6R x ND 8347CB-12R). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice skin

Weakness: poor shape, small variable size, zipper eyes, deep eyes, drop, large tubers, some road map, silver scurf

NDTX050169-1R-Dropped-Oblong Red Parentage (ND 028577-6RY x ND 8555-8R). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: dark red skin color nice size

Weakness: sticky stolons, silver scurf

NDTX059759-3RY/YPinto-Oblong Pinto/Yellow. Parentage (ATND 99331-2 Pinto x ND 7834-2P). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice red skin color nice flesh, smooth skin BOT

Weakness: some flat, small, many b's, psyllid?, some bigger, FC=3.0

NDTX059828-2W-Oblong White. Parentage (ND 4659-5R x ND 8524B-1R). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: ZC tolerant

Weakness: poor skin color red eyes,

Chip Notes: drop, keep-, CR=1

NDTX060700C-1W-Dropped-Round White. Parentage (NDTX 7560C-4 x NDTX 7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: uniform

Weakness: very small, light set, drop+

Chip Notes: nice, BOT, CR=1

NDTX071109C-1W-Dropped-Round White. Parentage (ND 7226C-17 x ND 860-2) Cross was made in

North Dakota and selected in Texas. Late maturity. Large vine size.

Uses: chip

Strength: nice size and shape yield+

Weakness: deep nose, rough large tubers, light set, ZC

Chip Notes: nice K, CR=1

NDTX071258BS-1R-Dropped-Round Red. Parentage (ND 039035B-9R x ND 4659-5R) Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice shape and skin color, nice size keep

Weakness: low numbers, deep eyes, silver scurf, FC=1.0

NDTX081451CBS-1Y/Y-Dropped Oblong Yellow/Yellow. Parentage (Dakota Diamond x Gala) Cross was made in North Dakota and selected in Texas. Late maturity. Large vine size. White flower color.

Uses: fresh

Strength: BOT+, nice skin finish, yield+, nice flesh nice size, smooth

Weakness: too big, oblong, variable size, FC=3.5

NDTX081648CB-13W-Round White. Parentage (ND 8456-1 x ND7377CB-1) Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: yield, nice shape and size, smooth, BOT-

Weakness: rough, poor shape, drop??

Chip Notes: drop, CR=1

NDTX081648CB-1W-Dropped Round White. Parentage (ND 8456-1 x ND7377CB-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice size nice shape++

Weakness: large tubers

Chip Notes: keep-, CR=1

NDTX091886-3P/P-Round Purple. Parentage (COND 04082-8RR X ND 7519-1) Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice shape, very dark purple flesh smooth nice skin

Weakness: light set, low yield, shape??, silver scurf, all Blue like flesh, FC=4.5

NDTX091908AB-2W-Dropped-Round White. Parentage (Ebt 6-21-5 X ND 7519-1) Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: yield+, high set, smooth, smooth, nice shape BOT+

Weakness:

Chip Notes: K, CR=1

NDTX092231C-1R-Dropped-Round Red. Parentage (ND 049326C-2P x AND 00272-1R) Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice skin good color

Weakness: poor shape, too oblong, small, heat sprouts, drop, color, shape??

NDTX102514ABC-5W-Dropped-Round White. Parentage (Etb 6-5-5 x ND 060831C-6) Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness: too oblong, poor shape, small, poor internals drop

Chip Notes: K, CR=1

NDTX102639CS-1W-Dropped-Round White. Parentage (ND7550C-1 x ND060831C-6). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength:

Weakness: white flesh, drop, low number too big, poor internals, FC=1.0

NDTX102640Cb-1W-Dropped-Round White. Parentage (ND7550c-1 x ND071006B-2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: heavy set nice shape, uniform, keep

Weakness: too small

Chip Notes: keep-, 1GH, CR=2

NDTX102702C-1W-Oblong White. Parentage (ND049326C-2P x ND059978C-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness: drop, very low, yield

Chip Notes: nice, CR=2

NDTX102796CbS-2W-Dropped-Round White. Parentage (ND059999C-4 x ND060618CB-3). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice size, nice shape, smooth, BOT

Weakness: large tubers ,

Chip Notes: drop, CR=1

NDTX102816CABS-1W-Round White. Parentage (ND060476CAb-6 x ND7519-1). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice size, good number, lots of very small tubers

Weakness: variable size, small, second set??. drop

NDTX102852CB-3Ru-Dropped-Oblong Russet. Parentage (ND060607B-4 x ND060831C-6). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice shape

Weakness: light set, large tubers, Russet

Chip Notes: keep, drop, 2 sugar end, CR=2

NDTX102852CB-4Ru-Dropped-Oblong Russet. Parentage (ND060607B-4 x ND060831C-6). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness: poor shape, drop

Chip Notes: keep-, 1HH nice, CR=1

NDTX113029C-2W-Dropped-Oblong White. Parentage (Dakota Diamond x ND6620-14). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice round shape, uniform

Weakness: heat sprouts, poor shape, drop++

Chip Notes: keep-, CR=2

NDTX113030C-10W-Dropped-Oblong White. Parentage (Dakota Diamond x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: uniform

Weakness: very small, some vascular discoloration

Chip Notes: keep- drop, CR=2

NDTX113030C-3W-Oblong White. Parentage (Dakota Diamond x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice size and shape, yield+ keep

Weakness: some flat



Chip Notes: keep-, CR=1

NDTX113037C-2W-Dropped-Oblong White. Parentage (Dakota Pearl x ND060705C-8). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: good skin color, good numbers, ok nice size

Weakness: feathering, poor shape, drop+++, rough, ZC, lots of bruise, light set, FC=1.0

NDTX113037C-3W-Dropped-Oblong White. Parentage (Dakota Pearl x ND060705C-8). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness: some flat feathering, small

Chip Notes: keep-, CR=1

NDTX113467CB-1W-Oblong White. Parentage (ND060485Cb-1 x ND7519-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: uniform, heavy set, keep

Weakness: small,

Chip Notes: BOT++keep, CR=1

NDTX12130CB-1W-Dropped-Oblong White. Parentage (Ivory Crisp x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice size

Weakness: low numbers, large and small tubers, some large, feathering, FC=1.0

NDTX12135-1W-Round White. Parentage (ND8559-20 x M3). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness: low yield

Chip Notes: keep, CR=1.0

NDTX12176AB-1Ru-Dropped-Round White. Parentage (ND06748AB-1 x ND7519-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: smooth

Weakness:

Chip Notes: nice, CR=1.0

NDTX12180ABC-1W-Dropped-Round White. Parentage (ND060837C-7 x Ivory Crisp). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: round white

Weakness: feathering, drop

NDTX12203AB-1W-Round White. Parentage (ND028598c-1 x M2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: smooth, keep

Weakness: ,

Chip Notes: BOT++, CR=1.0

NDTX1244-3W/Y-Round White. Parentage (AND07358-1Y x ND7192-3). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice, yield+, light yellow flesh, keep

Weakness:

Chip Notes: BOT, CR=2.0

NDTX1246-3W-Round White.Parentage (AND07358-1Y x ND8304-2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness: too flat, IBS, poor internal, drop

Chip Notes: keep, 1GH, CR=1.0

NDTX1246-5W-Round White. Parentage (AND07358-1Y x ND8304-2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice shape

Weakness: small, mixed flesh

Chip Notes: nice, CR=3.0

NDTX1246-6W-Dropped-Round White. Parentage (AND07358-1Y x ND8304-2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice shape

Weakness: small

Chip Notes: keep, CR=1.0

NDTX1246-7W-Dropped-Round White. Parentage (AND07358-1Y x ND8304-2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: yield+, nice shape, keep

Weakness:

Chip Notes: BOT, CR=1.0

NDTX1287B-1W-Round White.Parentage (ND8559-20 x ND7379B-6). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice size and skin, white flesh

Weakness: light set, FC=1.0

NDTX1292-1Ru-Dropped Round Russet. Parentage (ND5873-53 x ND7379B-6). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness: russet, small

Chip Notes: keep, CR=1.0

NDTX4784-7R-Dropped-Round Red. Parentage (ND3574-5R x ND2050-1R). Cross was made in North Dakota and selected in Texas. Early maturity. Medium vine size. Lavender flower color

Uses: fresh

Strength: nice color, smooth, large tubers, nice shape and skin

Weakness: low yield, light set, silver scurf

NDTX5438-11R-Round Red. Parentage (ND4339-10R x ND4269-9R). Cross was made in North Dakota and selected in Texas. Late maturity. Medium vine size. Lavender flower color.

Uses: fresh

Strength: nice skin

Weakness: poor yield

NY152-Round White. Parentage (B38-14 x Marcy). Clone entered by Cornell University.

Uses: chip

Strength: uniform, nice size and shape, BOT

Weakness:

Chip Notes: nice, CR=1

NY153-Round White. Parentage (Waneta x Pike). Clone entered by Cornell University.

Uses: chip

Strength: uniform, nice size and shape

Weakness:

Chip Notes: 1BC, nice, CR=1

Olympus-Round White. Parentage (Atlantic x 12601 ab (1)). Clone entered by the Higgins Group.

Uses: chip

Strength:

Weakness:

Chip Notes: keep, CR=1

OR09256-2-Round Buff. Parentage (Dakota Diamond x Russet Norkotah). Cross made and selected in Oregon. Medium-late maturity. Medium-large vine size. White flower color.

Uses: chip

Strength: uniform nice size

Weakness: light set, buff

Chip Notes: keep-CR=1

OR9253-1-Round Buff. Parentage (Dakota Diamond x C097065). Cross made and selected in Oregon. Late maturity. Medium-large vine size. Lavender flower color.

Uses: chip

Strength:

Weakness: some rough, feathering

PORTX03PG25-2R/R-Round Red/Red. Parentage (PA97B35-1 x PA99P7-2). Cross was made in Prosser, Washington, tuberling grown in Oregon and selected in Texas.

Uses: fresh.

Strength: BOT, good skin, shape, and flesh, nice red flesh

Weakness: silver scurf low numbers, too fat and short, FC=4.0

Ranger Russet-Long Russet. Parentage (Butte x A6595-3). Cross was made and selected in Aberdeen. Released in 1991 by USDA-ARS, and the Colorado, Aberdeen, Oregon and Washington Agricultural Experiment Stations. Medium-late maturity. Large vine size. White flower color.

Uses: fresh

Strength: nice shape and skin

Weakness: rough, poor shape pointed, some rough, feathering, small,

Red LaSoda-Oblong Red. Parentage (Triumph x Katahdin). Cross was made and selected in Louisiana. Red LaSoda is a clonal selection from LaSoda made by Louisiana State University. Medium maturity. Medium-large vine size. Purple flower color.

Uses: fresh

Strength: yield++

Weakness: deep eyes, ZC silver scurf

Reveille Russet-Oblong Russet. Parentage (A81473-2 x A8343-12) Cross was made in Aberdeen, and selected in Texas. Late maturity. Medium vine size. Lavender flower color.

Uses: fresh

Strength: very nice shape BOT++, higher % of large tubers, heavy set, larger tubers

Weakness: some pointed

Russet Burbank-Long Russet. Luther Burbank reported the origin of Russet Burbank in 1914 as a chimeric selection from the variety Burbank by Lou Sweet. Lou Sweet was a potato grower in the western slope area of Colorado and was President of the Potato Association of America in 1920. Late maturity. Large vine size. White flower color.

Uses: fresh

Strength:

Weakness: misshapen, pointed, drop, skinny, rough

Russet Norkotah278-Oblong-Long Russet. Parentage (ND95264Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Russet Norkotah296 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah. Early maturity. Medium vine size. White flower color

Uses: fresh

Strength: high yield, nice shape

Weakness: rough, low yield, curved, some rough too long, pointed

Russet Norkotah296-Oblong-Long Russet. Parentage (ND95264Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Russet Norkotah296 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah. Early maturity. Medium vine size. White flower color

Uses: fresh

Strength: High yield,

Weakness: poor shape, drop, some rough

Russet Norkotah-Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Released in 1987 by the North Dakota Agricultural Experiment Station. Early-medium maturity. Medium vine size. Corolla is white and anthers are yellow-orange.

Uses: fresh

Strength: nice shape nice skin

Weakness: second set, ZC, small, skinny, curved, variable size

Shepody-Long White. Parentage (Bake King x F58050). Selected in New Brunswick, Canada and released by Agriculture Canada, New Brunswick in 1980. Medium-late maturity. Medium vine size. Light violet flower color with white tips.

Uses: dual

Strength: white skin

Weakness: drop, some rough, heat sprouts++ poor shape

Sierra Gold-Round-Oblong Russet/Yellow. Parentage (Krantz x Delta Gold). Cross was made and selected in Texas. Early maturity. Medium vine size.

Uses: fresh

Strength: nice uniform, very nice skin, shape, and flesh BOT+

Weakness: yield problems, FC=3.5

Sierra Rose-Oblong Red/Yellow. Parentage (A90601-2RDY X MAZAMA). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Early maturity. Medium vine size. Purple flower color

Uses: fresh

Strength: smooth, nice shape BOT-, nice size and shape

Weakness: heat sprouts, light yellow flesh, some silver scurf, FC=2.5

Snowden-Oblong White. Parentage (B5141-6 x Wischip). Cross was made and selected at the University of Wisconsin. Medium-late maturity. Large vine size. White flower color.

Uses: chip

Strength: uniform, nice flesh nice size

Weakness: some rough, small

Chip Notes: CR=1

Soraya-Oblong White. Parentage (Marabel x 1.307 120-93). Cross was made and selected at Norika breeding facility in Gross Lüsewitz, Germany. Medium-late maturity.

Uses: fresh

Strength: nice flesh,

Weakness: poor shape and yield poor internals, rough

Stampede Russet-Oblong-Long Russet. Parentage (BR7091-1 x Lemhi Russet), cross made in Texas, selected in Idaho and tested extensively in Alberta, Canada. Released in 1999 by Agriculture and Agri-Food Canada and the Texas Agricultural Experiment Station. Early maturity. Medium vine size. Lavender flower color.

Uses: fresh

Strength: nice shape blocky, fat tubers, nice shape, BOT-

Weakness: poor yield, drop, lower yield than RR, nice skin

TX03196-1W-Dropped-Oblong White. Parentage (NDTX4784-7R x Adora). Cross was made and selected in Texas.

Uses: chip

Strength: nice size and shape, large tubers, keep+

Weakness: too large, growth cracks++, ugly, drop

Chip Notes: keep-, CR=1.0



TX05249-10W- Oblong White. Parentage (Gem Russet x A91790-13). Cross was made and selected in Texas.

Uses: chip

Strength: nice shape smooth skin

Weakness:

Chip Notes: drop- nice, BOT-CR=2

TX05249-11W- Dropped-White. Parentage (Gem Russet x A91790-13). Cross was made and selected in Texas.

Uses: chip

Strength: nice shape

Weakness: low yield, drop+

Chip Notes: keep- 1GH, CR=3

TX08352-5Ru-Long Russet. Parentage (TXA549-1Ru x AOTX98137-1RU). Cross was made and selected in Texas.

Uses: fresh

Strength: nice size, larger tubers, heavy set, BOT- yield+, nice shape,

Weakness:

TX09396-1W-Dropped-Oblong White Parentage (Atlantic x NY139) Cross was made and selected in Texas.

Uses: chip

Strength: nice size and yield nice shape

Weakness: some rough IBS, poor internal, drop

Chip Notes: nice, 1 Mech BOT- keep, CR=1

TX09406S-1P/P-Round Purple Parentage (A99331-2RY x CO00405-1R) Cross was made and selected in Texas.

Uses: fresh

Strength: keep, very dark purple flesh keep, nice size good numbers and shape

Weakness: too big growth cracks, some white in flesh, flesh, skin??. FC=5.0

TX09429-1P/P-Oblong Purple Parentage (COTX0325-1P/P x COTX04050-1P/P) Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice deep purple flesh, nice skin color

Weakness:

Chip Notes: keep- nice, CR=3

TX11448-2R-Oblong Red Parentage (Rio Rojo x COTX94218-1R) Cross was made and selected in Texas.

Uses: fresh

Strength: uniform

Weakness: small, silver scurf

TX11448S-4R-Dropped-Oblong Red. Parentage (Rio Rojo x COTX94218-1R) Cross was made and selected in Texas.

Uses: fresh

Strength: nice size, white flesh

Weakness: low numbers, light set, FC=1.0

TX11461-2W-Dropped- Parentage (NY138 x Chipeta) Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX12471-1R/Y-Oblong Red/Yellow. Parentage (COTX94218-1R x CO04021-2R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength: good color nice shape, smooth

Weakness: variable size, very small, shape??, light flesh, FC=2.5

TX12471-6W/Y-White/Yellow. Parentage (COTX94218-1R x CO04021-2R/Y). Cross was made and selected in Texas.

Uses: fresh

Strength: nice size and flesh, some large tubers, smooth, good numbers, high set, nice skin and flesh, smooth BOT

Weakness: skinny, variable size, drop, FC=3.0

TX12471-7R/Y-Dropped-Round Red/Yellow. Parentage (COTX94218-1R x CO04021-2R/Y). Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness: light skin, small, silver scurf, FC=3.0

TX12472-4R-Round Red/Yellow. Parentage (COTX94218-1R x COTX04188-3R/Y). Cross was made and selected in Texas.

Uses: fresh

Strength: BOT nice shape, heavy set

Weakness: light skin, silver scurf

TX12474-1P/R-Purple/Red. Parentage (CO04045-4P/P x CO03027-2R/R). Cross was made and selected in Texas.

Uses: chip

Strength: red flesh nice flesh and skin

Weakness: some IBS very small

Chip Notes: keep, CR=3

TX12479-16W-Dropped-Round White. Parentage (Atlantic x TX08402). Cross was made and selected in Texas.

Uses: chip

Strength: nice shape, smooth

Weakness: low yield, too oblong drop+

Chip Notes: keep- BOT-, 1GH, CR=1

TX12479-1W- Dropped-Oblong. White. Parentage (Atlantic x TX08402).Cross was made and selected in Texas.

Uses: chip

Strength: nice shape

Weakness: large tubers, rough, some buff

Chip Notes: keep- keep, 1MB, 1ROT, CR=1

TX12483-4W-Oblong White. Parentage (TX08402 x Snowden).Cross was made and selected in Texas.

Uses: chip

Strength: nice yield and size

Weakness: deep eyes

Chip Notes: BOT-, nice, CR=1

TX12483-5W-Round White. Parentage (TX08402 x Snowden).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness: low yield, buff, russet skin, hollow heart drop

Chip Notes: BOT, CR=1

TX12483-6W-Round White. Parentage (TX08402 x Snowden).Cross was made and selected in Texas.

Uses: chip

Strength: nice shape

Weakness: buff russet skin

Chip Notes: K+, CR=1

TX12483-8W-Dropped-Oblong White. Parentage (TX08402 x Snowden).Cross was made and selected in Texas.

Uses: chip

Strength: smooth, nice size keep BOT

Weakness: low yield

Chip Notes: keep, BOT-, Keep, 1GH, CR=1

TX12484-1W ZC-Oblong White. Parentage (TX08402 x NDTX059828-2W).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness: poor shape, too oblong large tubers, variable size

Chip Notes: keep, BOT, CR=1

TX12484-2W ZC-Oblong White. Parentage (TX08402 x NDTX059828-2W).Cross was made and selected in Texas.

Uses: chip

Strength: yield+, uniform

Weakness: some rough, deep eyes IBS, poor internals

Chip Notes: keep, CR=1

TX12484-3W ZC-Oblong White. Parentage (TX08402 x NDTX059828-2W).Cross was made and selected in Texas.

Uses: chip

Strength: smooth, yield+, nice size uniform

Weakness:

Chip Notes: K+, CR=1

TX12484-4W ZC-Dropped-Round White. Parentage (TX08402 x NDTX059828-2W).Cross was made and selected in Texas.

Uses: chip

Strength: smooth, nice shape

Weakness: rough, some deep eyes, drop

Chip Notes: keep-, CR=1

TX12486-1W-Dropped-Oblong White. Parentage (TX08402 x ATTX03474-1W).Cross was made and selected in Texas.

Uses: chip

Strength: uniform, nice shape

Weakness: large tubers, rough, drop

Chip Notes: drop, 1scab, keep, CR=1

TX12494-1R/Y-Dropped-Round Red/Yellow. Parentage (A99331-2RY x NDTX050184-1R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength: ok size, nice flesh

Weakness: low set, silver scurf, FC=3.5

TX13512-1Ru-Oblong Russet. Parentage (Stampede Russet x TXA549-1Ru).Cross was made and selected in Texas.

Uses: fresh

Strength: blocky, fat tubers, nice shape

Weakness: oblong to round, hollow heart

TX13524-1R-Dropped- Oblong Red. Parentage (NDTX4271-5R x ATTX06246-1R).Cross was made and selected in Texas.

Uses: fresh

Strength: nice shape keep, nice color

Weakness: poor internals, silver scurf

TX13524-2R-Oblong Red. Parentage (NDTX4271-5R x ATTX06246-1R).Cross was made and selected in Texas.

Uses: fresh

Strength: keep, nice color

Weakness: silver scurf

TX13528-5R/Y-Dropped-Oblong Red. Parentage (BTX2103-1R/Y x COTX01403-4R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength: nice flesh

Weakness: rough, deep eyes, light skin, silver scurf, FC=3.3

TX13539-4R/Y-Dropped-Oblong Red. Parentage (NDTX059886-1Y/Y x COTX01403-4R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength: good color nice flesh

Weakness: poor shape, too oblong, silver scurf, FC=3.0

TX13541-2P/P-Dropped-Long Purple. Parentage (Purple Peruvian x COTX08365-1P/P).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness: drop+, rough deep eyes, FC=3.5

TX13544-2R/YRE-Dropped-Long Red. Parentage (CO03134-4RF/RW x TX08378-3R).Cross was made and selected in Texas.

Uses: fresh

Strength: good flesh, nice skin color

Weakness: low set, shape??, some red streaks in flesh, FC=2.0

TX13544-4R/R-Dropped-Long Red. Parentage (CO03134-4RF/RW x TX08378-3R).Cross was made and selected in Texas.

Uses: fresh

Strength: nice skin and flesh, fat

Weakness: too big, low number, silver scurf, FC=3.8

TX13558-4P/P-Dropped-Long Purple. Parentage (TX08378-3R x COTX08365-1P/P).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness: bad shape, dropped, FC=3.8

TX13558-5P/P-Dropped-Long Purple. Parentage (TX08378-3R x COTX08365-1P/P).Cross was made and selected in Texas. fresh

Uses:

Strength: nice skin, dark flesh, ok shape, less silver scurf

Weakness: drop bad shape

TX13563-1W-Round White. Parentage (Snowden x ATX05202-3W/Y).Cross was made and selected in Texas.

Uses: chip

Strength: uniform

Weakness: small

Chip Notes: BOT, CR=1.0

TX13563-3W-Dropped-Round White. Parentage (Snowden x ATX05202-3W/Y).Cross was made and selected in Texas.

Uses: chip

Strength: uniform

Weakness: small, buff skin

Chip Notes: CR=1.0

TX13563-5W-Dropped-Oblong White. Parentage (Snowden x ATX05202-3W/Y).Cross was made and selected in Texas.

Uses: chip

Strength:



Weakness: variable size, buff skin

Chip Notes: keep-, CR=1.0

TX13565-1W-Dropped-Round White. Parentage (Snowden x ATTX05175-1R/Y).Cross was made and selected in Texas.

Uses: chip

Strength: uniform

Weakness:

Chip Notes: BOT, nice, CR=1.0

TX13565-2W-Dropped-Round White. Parentage (Snowden x ATTX05175-1R/Y).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness: too big, drop, FC=1.0

TX13566-1W-Dropped-Round White. Parentage (Snowden x COTX04050-1P/P).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness: too small

Chip Notes: keep-, CR=1.0

TX13566-5W-Dropped-Round White. Parentage (Snowden x COTX04050-1P/P).Cross was made and selected in Texas.

Uses: chip

Strength: smooth

Weakness: small

Chip Notes: keep, 1IBS, CR=1.0

TX13574-4W-Dropped-Round White. Parentage (CO03243-3W x Snowden).Cross was made and selected in Texas.

Uses: chip

Strength: nice shape

Weakness:

Chip Notes: keep, CR=1.0

TX13578-4W-Dropped-Round White. Parentage (Waneta x Snowden).Cross was made and selected in Texas.

Uses: chip

Strength: nice shape

Weakness:

Chip Notes: keep-, CR=1.0

TX13579-1R/Y-Dropped-Oblong Red Parentage (Waneta x CO03243-3W).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness: growth cracks, light yellow flesh, silver scurf, drop

TX13580-1W-Round White. Parentage (Waneta x 00-3315-11).Cross was made and selected in Texas.

Uses:chip

Strength:

Weakness: sticky stolons

Chip Notes: BOT, CR=1.0

TX13582-3W-Round White.Parentage (Waneta x PALB03016-3).Cross was made and selected in Texas.

Uses: fresh

Strength: nice size

Weakness: skin finish?, white flesh, FC=1.0

TX13582-4W-Round White. Parentage (Waneta x PALB03016-3). Cross was made and selected in Texas.

Uses: fresh

Strength: nice size

Weakness: low set, white flesh, FC=1.0

TX13582-5W-Round White. Parentage (Waneta x PALB03016-3). Cross was made and selected in Texas.

Uses: fresh

Strength: nice size and shape, keep

Weakness: FC=1.0

TX13585-1W-Dropped-Round White. Parentage (00-3315-11 x PALB03016-3). Cross was made and selected in Texas.

Uses: chip

Strength: uniform

Weakness: small, low yield, drop

Chip Notes: CR=1.0

TX13590-9Ru-Long Russet. Parentage (PALB03016-3 x Waneta). Cross was made and selected in Texas.

Uses: fresh

Strength: blocky, nice skin and shape

Weakness:

TXA549-1Ru-Oval Russet. Parentage (ND9687-3Ru x ND9852-1Ru). Cross was made in Texas, selected in Aberdeen and tested extensively in Alberta, Canada. Medium-late maturity. Medium-large vine size. Purple flower color with White tips.

Uses: fresh

Strength: good yield, blocky, nice skin and shape, BOT

Weakness: some rough, some hollow heart

TXWL-1-Oblong White. Parentage (Triumph x Katahdin).

Uses: fresh

Strength: nice white flesh, red eyes, some splash yield+

Weakness: oversized deep eyes, rough, brown center, FC=1.0

Vitabella-Oblong White. Parentage (VR 95-98 x MIRIAM). Clone entered by KWS Potato B.V.

Uses: fresh

Strength: nice shape smooth skin

Weakness: poor shape, small, light set, heat sprouts, some pear shaped, FC=2.5

W2978-3-Oblong White. Parentage (Monticello x Dakota Pearl). Cross made and selected at the University Wisconsin.

Uses: chip

Strength: smooth, nice shape, uniform

Weakness:

Chip Notes: 3 sugar end, CR=2

W5955-1-Oblong White. Parentage (Pike x C31-5-120). Cross made and selected at the University Wisconsin.

Uses: chip

Strength: heavy set, uniform smooth

Weakness: buff skin

Chip Notes: keep, CR=1

Waneta-Oblong White. Parentage (Marcy x NY115). Cross made and selected at Cornell University.

Uses: chip

Strength: nice shape and size

Weakness: light set

Chip Notes: keep- BOT, CR=1

WTX10646-2W-Dropped-Oblong White. Parentage (W2324-1 x Eva) Cross was made in Wisconsin and selected in Texas.

Uses: chip

Strength: smooth uniform

Weakness: small, growth cracks, drop

Chip Notes: keep-, CR=1

WTX10666-8W-Dropped-Oblong White. Parentage (W2978-3 x Lelah) Cross was made in Wisconsin and selected in Texas.

Uses: chip

Strength: smooth

Weakness: variable size, small, low yield, drop

Chip Notes: keep- drop, CR=1

WTX13068-1W-Dropped-Round White. Parentage (W8822-2 x W6609-3) Cross was made in Wisconsin and selected in Texas.

Uses: chip

Strength: smooth

Weakness:

Chip Notes: BOT-, CR=1.0

WTX13073-1W-Dropped-Oblong White. Parentage (W2438-3 x YC115) Cross was made in Wisconsin and selected in Texas.

Uses: chip

Strength: nice shape, yellow flesh

Weakness: buff russet skin

Chip Notes: BOT-, 1GH, CR=1.0

Yukon Gold-Oblong White/Yellow. Parentage (W5279-4 x Norgleam). Cross was made and selected in Ontario, Canada. Released in 1980 by Agriculture Canada, The University of Guelph, and The Ontario Ministry of Agriculture) Food, Guelph, Ontario. Medium-early maturity. Medium-large vine size. Violet

flower color.

Uses: fresh

Strength: smooth, nice shape and flesh,

Weakness: FC=3.

Appendix B. Parentage of potato varieties or selections-2016.

Variety or Selection	Parentage
Abby	Cecile x Red Scarlett
Ackersegen	Hindenburg x Allerfruheste
Actrice	DENISE x AGATA
Adora	Pimura x Alcmaria
Agria	Quarta x Semlo
Alegria	
All Blue	Unknown
Alpha	Paul Kruger x Preferent
Ambra	Duke of York x Reneta Lub B 53
Asterix	Cardinal x SVP VE 70-
Atlantic	Wauseon x Lenape
Avalanche	DHS40-1034 x Maris Piper
Aziza	Smeenge 6-17 x Smeenge74-5
Baltic Cream	
Banana	
Banff	
Beacon Chipper	
Bettina	
Binje	Munstersen x Fransen
Boulder	MS702-80 x NY88
Bute	Valor x Nicola
Caesar	Monalisa x Rop B 1176
Carola	
Carrera	
Century	A678-7 x A6680-5
Chieftan	la1027-18 x La1354
Chipeta	WNC612-13 x Wischip
Climax	Bintje x Record
Courage	

<b>Variety or Selection</b>	<b>Parentage</b>
<b>Dakota Jewel</b>	<b>ND2223-8R x ND64-4R</b>
<b>Dark Red Norland</b>	<b>Redkote x ND626</b>
<b>Day-9</b>	
<b>Delikat</b>	
<b>Desiree</b>	<b>Urgenta x Depesche</b>
<b>Diamante</b>	<b>TDV54-30-8 x SVP55-8</b>
<b>Dore</b>	<b>Duke of York x BiermaA7</b>
<b>Eerstelling</b>	<b>Early Primrose x King Kidney</b>
<b>Eigenheimer</b>	<b>Blaue Riesen x Fransen</b>
<b>Electra</b>	<b>C12/42 x Picasso</b>
<b>Electra</b>	<b>C12/42 x Picasso</b>
<b>Emma</b>	<b>Colleen x Estima</b>
<b>Estima</b>	
<b>Fabula</b>	
<b>Florissant</b>	<b>Premiere x VK 6-41</b>
<b>Fortuna</b>	
<b>Foxton</b>	<b>Irene x Maris Piper</b>
<b>Gasora</b>	
<b>German Butter Ball</b>	
<b>Golden Sunburst</b>	
<b>Gouda</b>	
<b>Granola</b>	<b>3333 60 x 267 04</b>
<b>Green Mountain</b>	<b>Dunmore x Excelsior</b>
<b>Hertha</b>	<b>Dijkhuis61-133 x Konst62-374</b>
<b>Innovator</b>	<b>Shepody x RZ 84-2580</b>
<b>Irish Crispin</b>	<b>Amigo x DH70-6 3a</b>
<b>Ivory Crisp</b>	<b>ND22-1 x A77268-4</b>
<b>Kag</b>	<b>??</b>
<b>Kalkaska</b>	<b>B1254-1 X S440</b>
<b>Keuka Gold</b>	<b>Steuben x Norwis</b>
<b>King Harry</b>	
<b>Krasaua</b>	<b>Visnovske Rohlic x B53</b>
<b>La Rouge</b>	<b>LaSoda x Progress</b>
<b>Lamoka</b>	<b>NY120 x NY115</b>
<b>Lanorma</b>	<b>Bydand x Caesar</b>



<b>Variety or Selection</b>	<b>Parentage</b>
<b>Latona</b>	<b>Jaerla x Nicola</b>
<b>Magic Molly</b>	<b>Open pollinated seed ball from Red Beauty</b>
<b>Maris Piper</b>	
<b>Maybell</b>	<b>Santana x Triplo</b>
<b>Mazama</b>	<b>ND116-2R x Redsen</b>
<b>MegaChip</b>	<b>Wischip x FYF85</b>
<b>Merlin</b>	<b>Cara x 3/2</b>
<b>Merlot</b>	<b>FrenchFingerling x RedGold</b>
<b>Modoc</b>	<b>ND116-2R x ND2225-1R</b>
<b>Molli</b>	
<b>Mondial</b>	<b>Spunta x Ve 66-25</b>
<b>Morning Gold</b>	<b>Olinda x Y 68-4-103</b>
<b>Munich</b>	
<b>Nectar</b>	<b>Famosa x Red Cara</b>
<b>NorDonna</b>	<b>ND206-1R x ND821-6R</b>
<b>Norgold-M</b>	<b>ND2475-8 x A11-1</b>
<b>NorValley</b>	<b>NorChip x ND860-2</b>
<b>Olympus</b>	<b>Atlantic x 12601ab1</b>
<b>Oscar</b>	<b>Desiree x VK 64 41</b>
<b>Ottar</b>	<b>Dore x DsxAS-737</b>
<b>Pacific Russet</b>	<b>NDA864-3 x Century Russet</b>
<b>Penta</b>	<b>Bellona x Estima</b>
<b>Pimpernel</b>	
<b>Platina</b>	
<b>Premiere</b>	
<b>Primica Inta</b>	
<b>Prince Hairy</b>	<b>Hudson x PI 31025</b>
<b>Purple Majesty</b>	<b>ND2008-2 x All Blue</b>
<b>Purple Peruvian</b>	<b>ND1562-4R x NDTX-108-11R</b>
<b>Ranger Russet</b>	<b>Butte x A655-3</b>
<b>Red Gold</b>	<b>G68211 x G6521-4RY</b>
<b>Red LaSoda</b>	<b>Triumph x Katahdin</b>
<b>Reveille Russet</b>	<b>A81473-2 x A8343-12</b>
<b>Rio Rojo</b>	<b>ND1562-4R x NDTX-108-11R</b>
<b>Rodeo</b>	<b>Mondial x Bimonda</b>

Variety or Selection	Parentage
Rosara	Secura x 2605 77
Rose Gold	Abnaki x G6521-4RY
Russet Burbank	Mutant from Burbank
Russet Legend	Century RusseTXWNC672-2
Russet Norkotah	ND526-4RU x ND687-5Ru
Russet Norkotah112	ND526-4RU x ND687-5Ru
Russet Norkotah223	ND526-4RU x ND687-5Ru
Russet Norkotah278	ND526-4RU x ND687-5Ru
Russet Norkotah296	ND526-4RU x ND687-5Ru
Rutt	Laila x Alcmaria
Saginaw Gold	MS321-38 x Michibonne
Sangre	Viking x A6356-
Sangre10	Viking x A6356-
Sante	SVPY66-13-636 x AM66-42
Satina	Puntila x 73
Shepody	Bake King x F58050
Sierra Gold™	Krantz x Delta Gold
Sierra Rose	A0601-2RDY X MAZAMA
Smiley	
Snowden	B5141-6 x Wischip
Soraya	
Sprint	SIRCO x MIN 72-74
Stampede Russet	BR701-1 x Lemhi Russet
Strobrawa	MPI55 57/54 x Mira
Super Red	
Tebina	
Ukama	Marijke x Sirtema
Urgenta	Furore x Katahdin
US Blue	
Valisa	
Viking	Redskin x Nordak
Vivaldi	TZ 77-148 x Monalisa
Vokal	Primura x Rheinhort
Waneta	
Winema	Redsen x ND116-2R

Variety or Selection	Parentage
Yellow Finn	
Yukon Gold	W527-4 x NorGleam
Numbered Clones	
105/2/W/06	Harmony x Divaa
A03141-6	A08083-9 x Premier Russet
A03921-2-	A653-13 x A3005-10
A06336-2Y	VC100-1W/Y x US147-6R/Y
A06336-5Y	VC100-1W/Y x US147-6R/Y
AC01144-1W	COA6141-2 x Willamette
AC03534-2R/Y	ATA8472-2Y x Mazama
AC05153-1W	A1814-5 x Chipeta
AC05175-3P/Y	A331-2R/Y x COA261-1RY
AF4648-2	NY132 x Liberator
AO03123-2	A8082-17 x Premier Russet
AO06191-1	A134-1 x AC200-4RU
AOR06070-1KF	Premier Russet x AO6164-1
AOR09034-3	Boulder x A0344-2C
AORTX09032-3W	A0344-2C x Ivory Crisp
AORTX09033-11W	CO6141-4W x Ivory Crisp
AORTX09033-14W	CO6141-4W x Ivory Crisp
AORTX09033-4W	CO6141-4W x Ivory Crisp
AORTX09037-1W	Fasan x Ivory Crisp
AORTX09037-3W/Y	Fasan x Ivory Crisp
AORTX09037-4W	Fasan x Ivory Crisp
AORTX09037-5W	Fasan x Ivory Crisp
AORTX09144-2W	A02516-102LB x PALB03016-3
AORTX09147-1W	A02516-102LB x A8334-2
AORTX10247-1W/Y	Lady Britta x NY13
AORTX11468-1W	A0344-2C x MSJ316A-LF
AORTX11476-2W	A05158-2C x MSJ316A-LF
AORTX11913-3Wre/Y	A03576-5Y x NDA050237B-1R
AORTX11913-4P	A03576-5Y x NDA050237B-1R
AORTX11913-5P	A03576-5Y x NDA050237B-1R
AORTX11913-6P/Y	A03576-5Y x NDA050237B-1R
ATTX05175S-1R/Y	A331-2RY x COA261-1RY

Variety or Selection	Parentage
ATTX05186-2R	A433-5Y x VC1075-1R
ATTX07042-3W/Y	Western Russet EM x A02086-10 EM 500
ATTX10265-4R/Y	A02267-2PY x US147-6RIY
ATTX11476-11W	A05158-2C x MSJ316A-LF
ATTX11484-3W	A05158-2C x 00-3115-11
ATTX961014-1R/Ychimera	A0601-2RDY x MAZAMA
ATTX98444S-16R/Y	A83360-R x T48YF
ATTX98453-6R	A340-1R x A1846-5R
ATTX98493-2P/P	P4A2-3Y x BO811-13RY
ATTX98514-1R/Y	T51YF x A3456-6R
ATX05186S-1R-	A433-5Y x VC1075-1R
ATX05202S-3W/Y	A00286-3Y x A433-5Y
ATX06264S-4R/Y	A331-2RY x Durango Red
ATX08117-3P	A02267-2PY x COA01406-1R
ATX08121-3P/Y	A02267-5PY x CO8012-5R
ATX08121-5R	A02267-5PY x CO8012-5R
ATX10675-1Ru	A0537-217 x Dakota Trailblazer
ATX11354-1W-	AF2850- x A01025-4
ATX11952-1Ru	A02515-2 x A816-5
ATX84378-6Ru	A7141- x ND32-1
B2727-2	
BTX1749-1W/Y	K7-6 x BO25-4
BTX2103-1R/Y	BO811-13 x ARS-W82-21285-1
BTX2332-1R	B1523-4 x Super Red Norland
CO00277-2R	
CO00405-1RF	Banana x NDC6174-1R
CO02321-4W	NY115W x BC084-2W
CO03243-3W	BC084-2W x A170-13
CO04220-7RU	CO610-7RU x Summit Russet
CO05035-1PW/Y	Masquerade x US147-6
CO05068-1RU	AWN86514-2 x CO800-3RU
CO05152-5RU	CO4035-15RU x AC6052-1RU
CO05175-1RU	CO4035-15RU x AC6052-1RU
CO07070-10W	B0766-3 x CO00188-4W
CO07070-13W	B0766-3 x CO00188-4W

Variety or Selection	Parentage
CO08065-2RU	Premier Russet x AC98043-2RU
CO08155-2RU/Y	Fortress Russet x Innovator
CO08231-1RU	CrestoneRusset x SageRusset
CO99256-2R	Rio Colorado x Rose
COA07365-4RY	US147-6 x CO256-2R
COTX00104-6R	ND3574-5R x C086218-2
COTX01403-4R/Y	VC1015-7R/Y x Winema
COTX03134-1W	Laratte x PA7B36-3
COTX04050S-1P/P	CO7215-2P/P x CO7306-2P/Pwas
COTX04193S-2R/Y	ATC8515-1R/Y x ND3574-5R
COTX05249-3WRE/Y	CO00320-1R x ATC850-1R/Y
COTX07054-2R	ATDC801-3P x CO076-6R
COTX07382-2W/Y	Blazer Russet x Innovator
COTX08044F-1R/R	FF x KP x FF x KP
COTX08365F-1P/P	POR01PG16-1 x CO00405-1R
COTX08365F-3P/P	POR01PG16-1 x CO00405-1R
COTX09022-3RuRE/Y	A00286-3Y x CO100-1RU
COTX09052-2Ru	CO03202-1RU x CO8067-7RU
COTX10010-1Ru	A0008-1TE x CO8067-7RU
COTX10073S-1W	A7066-42LB x Alpine Russet
COTX10079-11W	CO03273-7W x CO02321-4W
COTX10080-2Ru	CO03364-5RU x CO8067-7RU
COTX10097-2W/Y	CO04067-10W/Y x CO00412-5W/Y
COTX10118-1RE/Y	07S01 x AC03534-2R/Y
COTX10118-4PuE/Y	07S01 x AC03534-2R/Y
COTX10138-19P/Y	AC32-7PW/Y x AC03534-2R/Y
COTX10138S-7WPE/Y	AC32-7PW/Y x AC03534-2R/Y
COTX10141-11Ru-	AC0035-2RU x CO03177-2RU
COTX10141-12Ru	AC0035-2RU x CO03177-2RU
COTX10226S-1WRE/Y	CO04117-5PW/Y x AC03534-2R/Y
COTX12226-1Ru	A02507-2LB x CO8067-7RU
COTX12235-1W-	AC00206-2W x AC03433-1W
COTX12235-2W	AC00206-2W x AC03433-1W
COTX12236-3W	AC00206-2W x CO02024-W
COTX12370-2Ru	CO06021-1RU x CO05206-8RU

Variety or Selection	Parentage
COTX12428-1W	MSQ070-1 x CO02024-W
COTX12428-2W	MSQ070-1 x CO02024-W
COTX94416-1R	
MSM246-B	MSE274-A x NY115
MSQ086-3	Onaway x Missaukee
MSR127-2	MSJ167-1 x MSG227-2
MSW358-3	
MSW485-2	
MSW509-5	
MSY301-2	
NC0349-3	Snowden x B0564-9
NDA081453CAB-2C	Dakota Diamond x ND03173CAB-22
NDC081655-1R	ND8555-8R x ND6126-4R
NDTX050070-1R	ND8375b-6R x ND8347CB-12R
NDTX050169-1R	ND028577-6RY x ND8555-8R
NDTX059759-3RY/YPinto	ATND 99331-2 Pinto x ND 7834-2P
NDTX059828-2W	ND465-5R x ND8524B-1R
NDTX060700C-1W	NDTX7560C-4 x NDTX712-1
NDTX071109C-1W	ND7226C-17 x ND860-2
NDTX071258BS-1R	ND03035B-R x ND465-5R
NDTX081451CBS-1Y/Y	Dakota Diamond x Gala
NDTX081648CB-13W	ND8456-1 x ND7377CB-1
NDTX081648CB-1W	ND8456-1 x ND7377CB-1
NDTX091886-3P/P	COND04082-8RR x ND751-1
NDTX091908AB-2W	Ebt38524 x ND751-1
NDTX092231C-1R	ND04326C-2P x 00272-1R
NDTX102514ABC-5W	Etb38508 x ND060831C-6
NDTX102639CS-1W	ND7550C-1 x ND060831C-6
NDTX102640Cb-1W	ND7550c-1 x ND071006B-2
NDTX102702C-1W	ND04326C-2P x ND0578C-1
NDTX102796CbS-2W	ND05C-4 x ND060618CB-3
NDTX102816CABS-1W	ND060476CAb-6 x ND751-1
NDTX102852CB-3Ru	ND060607B-4 x ND060831C-6
NDTX102852CB-4Ru	ND060607B-4 x ND060831C-6
NDTX113029C-2W	Dakota Diamond x ND6620-14

Variety or Selection	Parentage
NDTX113030C-10W	Dakota Diamond x ND712-1
NDTX113030C-3W	Dakota Diamond x ND712-1
NDTX113037C-2W	Dakota Pearl x ND060705C-8
NDTX113037C-3W	Dakota Pearl x ND060705C-8
NDTX113467CB-1W	ND060485Cb-1 x ND751-1
NDTX12130CB-1W	Ivory Crisp x ND712-1
NDTX12135-1W	ND855-20 x M3
NDTX12176AB-1Ru	ND06748AB-1 x ND751-1
NDTX12180ABC-1W	ND060837C-7 x Ivory Crisp
NDTX12203AB-1W	ND02858c-1 x M2
NDTX1244-3W/Y	AND07358-1Y x ND712-3
NDTX1246-3W	AND07358-1Y x ND8304-2
NDTX1246-5W	AND07358-1Y x ND8304-2
NDTX1246-6W	AND07358-1Y x ND8304-2
NDTX1246-7W	AND07358-1Y x ND8304-2
NDTX1287B-1W	ND855-20 x ND737B-6
NDTX1292-1Ru	ND5873-53 x ND737B-6
NDTX4784-7R	ND3574-5R x ND2050-1R
NDTX5438-11R	ND433-10R x ND426-R
NY152	B38-14 x Marcy
NY153	Waneta x Pike
OR09256-2	Dakota Diamond x Russet Norkotah
OR9253-1	Dakota Diamond x C07065
PORTX03PG25-2R/R	PA7B35-1 x PAP7-2
TX03196-1W	NDTX4784-7R x Adorawas
TX05249-10W	Gem Russet x A170-13
TX05249-11W	Gem Russet x A170-13
TX08352-5Ru	TXA54-1Ru x AOTX8137-1RU
TX09396-1W	Atlantic x NY13
TX09406S-1P/P	A331-2RY x CO00405-1R
TX09429-1P/P	COTX0325-1P/P x COTX04050-1P/P
TX11448-2R	Rio Rojo x COTX4218-1R
TX11448S-4R	Rio Rojo x COTX4218-1R
TX11461-2W-	NY138 x Chipeta
TX12471-1R/Y	COTX4218-1R x CO04021-2R/Y

Variety or Selection	Parentage
TX12471-6W/Y	COTX4218-1R x CO04021-2R/Y
TX12471-7R/Y	COTX4218-1R x CO04021-2R/Y
TX12472-4R	COTX4218-1R x COTX04188-3R/Y
TX12474-1P/R	CO04045-4P/P x CO03027-2R/R
TX12479-16W	Atlantic x TX08402
TX12479-1W-	Atlantic x TX08402
TX12483-4W	TX08402 x Snowden
TX12483-5W	TX08402 x Snowden
TX12483-6W	TX08402 x Snowden
TX12483-8W	TX08402 x Snowden
TX12484-1W	TX08402 x NDTX05828-2W
TX12484-2W	TX08402 x NDTX05828-2W
TX12484-3W	TX08402 x NDTX05828-2W
TX12484-4W	TX08402 x NDTX05828-2W
TX12486-1W	TX08402 x ATTX03474-1W
TX12494-1R/Y	A331-2RY x NDTX050184-1R/Y
TX13512-1Ru	Stampede Russet x TXA54-1Ru
TX13524-1R-	NDTX4271-5R x ATTX06246-1R
TX13524-2R	NDTX4271-5R x ATTX06246-1R
TX13528-5R/Y	BTX2103-1R/Y x COTX01403-4R/Y
TX13539-4R/Y	NDTX05886-1Y/Y x COTX01403-4R/Y
TX13541-2P/P	PurplePeruvian x COTX08365-1P/P
TX13544-2R/YRE	CO03134-4RF/RW x TX08378-3R
TX13544-4R/R	CO03134-4RF/RW x TX08378-3R
TX13558-4P/P	TX08378-3R x COTX08365-1P/P
TX13558-5P/P	TX08378-3R x COTX08365-1P/P
TX13563-1W	Snowden x ATX05202-3W/Y
TX13563-3W	Snowden x ATX05202-3W/Y
TX13563-5W	Snowden x ATX05202-3W/Y
TX13565-1W	Snowden x ATTX05175-1R/Y
TX13565-2W	Snowden x ATTX05175-1R/Y
TX13566-1W	Snowden x COTX04050-1P/P
TX13566-5W	Snowden x COTX04050-1P/P
TX13574-4W	CO03243-3W x Snowden
TX13578-4W	Waneta x Snowden



<b>Variety or Selection</b>	<b>Parentage</b>
<b>TX13579-1R/Y</b>	<b>Waneta x CO03243-3W</b>
<b>TX13580-1W</b>	<b>Waneta x 00-3315-11</b>
<b>TX13582-3W</b>	<b>Waneta x PALB03016-3</b>
<b>TX13582-4W</b>	<b>Waneta x PALB03016-3</b>
<b>TX13582-5W</b>	<b>Waneta x PALB03016-3</b>
<b>TX13585-1W</b>	<b>00-3315-11 x PALB03016-3</b>
<b>TX13590-9Ru</b>	<b>PALB03016-3 x Waneta</b>
<b>TXA549-1Ru</b>	<b>ND687-3Ru x ND852-1Ru</b>
<b>TXWL-1</b>	<b>Triumph x Katahdin</b>
<b>W2978-3</b>	<b>Monticello x DakotaPearl</b>
<b>W5955-1</b>	<b>Pike x C31-5-120</b>
<b>WTX10646-2W</b>	<b>W2324-1 x Eva</b>
<b>WTX10666-8W</b>	<b>W278-3 x Lelah</b>
<b>WTX13068-1W</b>	<b>W8822-2 x W660-3</b>
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