

# Texas Potato Breeding Report 2015



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

Creighton Miller, Douglas Scheuring, and Jeff Koym  
College Station and Lubbock

Shown on the cover is Reveille Russet a 2015 release by the Texas Potato Breeding and Variety Development Potato Program. It is a medium-early, high count carton, fresh market russet with wide adaptability.

## Table of Contents

	Page
Acknowledgements.....	iv
Mission Statement.....	1
Impact Statement.....	1
ZC Research Summary.....	2
Introduction.....	4
Springlake Trials, 2015.....	9
Western and Southwestern Regional Trials.....	12
Western and Southwestern Regional Chip Trial, Springlake.....	12
Western and Southwestern Regional Russet Trial, Springlake.....	21
Western and Southwestern Regional Red Trial, Springlake.....	28
Western and Southwestern Regional Red/Yellow Trial, Springlake.....	34
Western and Southwestern Regional White/Yellow Trial, Springlake.....	41
Outstanding Texas Advanced Chip Selections, 2015.....	48
Texas Advanced Chip Trial, Springlake.....	48
Outstanding Texas Advanced Russet Selections, 2015.....	58
Texas Advanced Russet Trial, Springlake.....	58
Outstanding Texas Advanced Red Selections, 2015.....	66
Texas Advanced Red Trial, Springlake.....	66
Outstanding Texas Advanced Red/Yellow Selections, 2015.....	73
Texas Advanced Red/Yellow Selection Trial, Springlake.....	73
Outstanding Texas Advanced White/Yellow Selections, 2015.....	80
Texas Advanced White/Yellow Trial, Springlake.....	80
Outstanding Texas Advanced Small Potato Selections, 2015.....	87
Texas Advanced Small Potato Selection Trial, Springlake.....	87
Outstanding Texas Advanced Fingerling Selections, 2015.....	95
Texas Advanced Fingerling Selection Trial, Springlake.....	95
Outstanding Texas Advanced Purple/Purple Red Selections, 2015.....	102
Texas Advanced Purple/Purple Red Selection Trial, Springlake.....	102
Outstanding Texas Advanced Purple/Yellow Selections, 2015.....	109
Texas Advanced Purple/Yellow Selection Trial, Springlake.....	109
2015 Dalhart Trials.....	116
Western and Southwestern Regional Chip Trial, Dalhart.....	119
Western Regional and Texas Advanced Russet Trial, Dalhart.....	127
Western Regional and Texas Advanced Red Trial, Dalhart.....	134

**Western Regional and Texas Advanced Red/Yellow Trial, Dalhart ..... 140**

**Western Regional and Texas Advanced White/Yellow Trial, Dalhart..... 147**

**Texas Advanced Chip Selection Trial, Dalhart ..... 154**

**2014 Chip Selections Trial, Dalhart ..... 169**

**Texas Advanced Russet Selection Trial, Dalhart ..... 171**

**2014 Russet Selections Trial, Dalhart..... 178**

**Texas Advanced Red Selection Trial, Dalhart..... 180**

**2014 Red Selections Trial, Dalhart ..... 187**

**Texas Advanced Red/Yellow Selection Trial, Dalhart..... 189**

**2014 Red/Yellow Selections Trial, Dalhart ..... 196**

**Texas Advanced White/Yellow Selection Trial, Dalhart ..... 198**

**2014 White/Yellow Selections Trial, Dalhart..... 205**

**Texas Advanced Small Potato Selection Trial, Dalhart..... 207**

**Texas Advanced Fingerling Selection Trial, Dalhart..... 221**

**2014 Fingerling Selections Trial, Dalhart ..... 227**

**Texas Advanced Purple Flesh Selection Trial, Dalhart..... 229**

**Texas Advanced Purple Yellow Flesh Selection Trial, Dalhart ..... 236**

**Appendix A. General notes on potato varieties or selections- 2015 ..... 243**

**Appendix B. Parentage of potato varieties or selections-2015 ..... 313**

**Index of Varieties and Clones ..... 325**

Mention of a trade name or proprietary product does not constitute a guarantee or warranty of the product by Texas A&M AgriLife Research and does not imply its approval to the exclusion of other products that also may be suitable.

This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. Appropriate state and federal agencies must register all uses of pesticides before they can be recommended.

Commercial companies are mentioned in this publication solely for the purpose of providing specific information. Mention of a company does not constitute a guarantee or warranty of its products by Texas A&M AgriLife Research or an endorsement over products of other companies not mentioned.

All programs, activities, information, services and facilities of Texas A&M AgriLife Research are available to everyone without regard to race, color, religion, sex, age, national origin, or physical or mental handicap.

## Acknowledgements

This work was conducted at the Texas A&M AgriLife Research and Extension Center at Lubbock, the Department of Horticultural Sciences, College Station, and at field sites near Springlake and Dalhart. Financial support for this work was partially provided by the Texas Department of Agriculture/Texas A&M AgriLife Research, and USDA/NIFA Special Research Grants Program- Potato Research (Agreement # 2014-34141-22487).

Bruce Barrett, Springlake Potato Sales, donated ten acres for growth of first year seedlings and advanced selections/variety trials near Springlake. Milt Carter, CSS Farms, donated nine acres for growth of first year seedlings and advanced selections/variety trials near Dalhart.

### Cooperators:

Rich Novy, Brian Schneider, and Jonathan Whitworth, USDA-ARS, Aberdeen, Idaho  
David Holm, Carolyn Keller, Caroline Grey, Samuel Essah, Kent Sather, and Rob Davidson, Colorado State University, San Luis Valley Research Center, Center, Colorado  
Susie Thompson, Gary A. Secor, and Neil Gudmestad, North Dakota State University, Fargo, North Dakota  
Sagar Sathuvalli and Solomon Yilma, Oregon State University, Corvallis, Oregon  
Shelley Jansky and Andy Hamernik, USDA-ARS, Madison, Wisconsin  
Marty Glynn, USDA-ARS, East Grand Forks, Minnesota  
David Douches, Joseph Coombs, Chris Long, and Willie Kirk, Michigan State University, East Lansing, Michigan  
Donald Halseth and Walter De Jong, Cornell University, Ithaca, New York  
Greg Porter, University of Maine, Orono, Maine  
Charlie Higgins and Dave Parish, United States Potato Board  
Luis Cisneros-Zevallos, Texas A&M University, College Station, Texas  
Terry Wheeler, Texas A&M AgriLife Research, Lubbock, Texas  
Russell Wallace, Texas A&M AgriLife Extension, Lubbock, Texas  
Tom Isakeit, Texas A&M AgriLife Extension, College Station, Texas  
Ron French, Texas A&M AgriLife Extension, Amarillo, Texas  
Adrian Silva, Texas A&M AgriLife Research, Weslaco, Texas

### Western Regional Cooperators:

Rob Wilson, Kevin Nicholson, and Darrin Culp, Tulelake, California  
David Holm, Caroline Grey, and Samuel Essah, Center, Colorado

Rich Novy, Jonathan Whitworth, and Brian Schneider, Aberdeen, Idaho

Jeff Stark and Peggy Bain, Aberdeen, Idaho

Brain Charlton, Klamath Falls, Oregon

Clint Shock, Melheur, Oregon

Rick Knowles and Mark Pavek, Pullman, Washington

Chuck Brown and Roy Navarre, Prosser, Washington

Southwestern Regional Cooperators:

Joe Nunez and Jed DuBose, Bakersfield, California

Rob Wilson, Kevin Nicholson, and Darrin Culp, Tulelake, California

David Holm, Caroline Grey, and Samuel Essah, Center, Colorado

Grower Cooperators:

Bruce Barrett, Steve Barrett, Cliff Black, and Tim Gonzales, Springlake Potato Sales, Springlake, Texas

Milt Carter, Grant Monie, Brian Zens, Lucy Carpio, Jerry Henderson, Dan Olteanu and, John Scheuring,  
CSS Farms, Dalhart, Texas

Kelly Kuball, Tasteful Selections, Bakersfield, California

Breeder Seed Increase:

David Holm, Caroline Grey, and Carolyn Keller, Colorado State University, San Luis Valley Research  
Center, Center, Colorado

Sandy Aarestad, Valley Tissue Culture, Inc., Halstad, Minnesota

Tom Smith and Vicki Lee, Summit Plant Laboratory, Inc., Fort Collins, Colorado

Rob Campbell and Amanda Leo, California-Oregon Seed, Inc., Oakdale, California

Liz Sanders and Milt Carter, CSS Farms, Colorado City, Colorado

Seed Contributors:

Richard Barrett and Keith Barrett, Richard Barrett Produce, Muleshoe, Texas

Bruce Barrett, Springlake Potato Sales, Springlake, Texas

Rob Campbell and Zoe Kilkenny, California-Oregon Seed, Inc., Oakdale, California

Jack Wallace, Wallace Farms, Edinburg, Texas

Trent , Larsen Farms, Dalhart, Texas

Milt Carter and Adam Naslund, CSS Farms, Cody, Nebraska

Charlie Higgins, United States Potato Board

General Supply Contributors:

Bruce Barrett and Cliff Black, Springlake Potato Sales, Springlake, Texas

Grant Monie, Lucy Carpio, and Brian Zens, CCS Farms, Dalhart, Texas

Co-workers:

We would like to express our gratitude for the significant contributions of Post Docs Sean Thompson, Julien Levy, and Yasin Karan. Technical Assistant Angel Chappel and student workers Elizabeth Vilma and Tyler Roberts.



Prefix Source Key for Numbered Advanced Selections:

A = cross made in Aberdeen, Idaho and selected in Idaho

AC = cross made in Aberdeen, Idaho and selected in Colorado

ADX = cross (diploid X diploid).made in Aberdeen, Idaho, and selected in Idaho

AF = cross made and selected in Maine at Aroostook Farm, Presque Isle

AND = cross made in Aberdeen, Idaho and selected in North Dakota

AO = cross made in Aberdeen, Idaho and selected in Oregon

AOA= cross made in Aberdeen, Idaho, seedling produced in Oregon, and selected in, Idaho

AOTX = AORTX = cross made in Aberdeen, Idaho, tuberlings produced in Corvallis, Oregon greenhouse, and original field selection in Texas

ATD = cross (tetraploid X diploid).made in Aberdeen, Idaho and selected in Idaho

ATTX = cross made in Aberdeen, Idaho, tuberlings produced in College Station, Texas greenhouse, and original field selection in Texas

ATX = cross made in Aberdeen, Idaho and selected in Texas

B = cross made in Beltsville, Maryland and selected in Maine

BC = cross made in Beltsville, Maryland and selected in Colorado

BO = cross made in Beltsville, Maryland and selected in Oregon

BN = cross made in Beltsville, Maryland and selected in North Dakota

BTX = cross made in Beltsville, Maryland and selected in Texas

CO = cross made and selected in Colorado

COTX = cross made in Colorado and selected in Texas

DT = cross made in North Dakota and selected in Texas

FL = cross made and selected by Frito-Lay

JTTX = cross made by USDA/ARS Madison, Wisconsin, tuberlings produced in College Station, Texas greenhouse, and original field selection in Texas

MB = cross made in Minnesota and selected in Maine (Beltsville, Maryland program)

MN = cross made and selected in Minnesota

MS “letter” = cross made and selected in Michigan with ‘letter’ indicating year of selection with 1988(A).as year 1 of the program

ND = cross made and selected in North Dakota

NDA= cross made in North Dakota and selected in Idaho (Aberdeen)

NDC = cross made in North Dakota and selected in Colorado

NDO = cross made in North Dakota and selected in Oregon

NDTX = cross made in North Dakota and selected in Texas

NY = cross made and selected in New York

OR = cross made and selected in Oregon

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

## **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, 3,195,689 seedlings have been grown for selection in Texas, from which 11,702 original selections have been made. Fifteen improved varieties have been developed/co-developed and/or released from this program. Most of the russet potatoes grown in Texas in 2015 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 2014 the average summer crop yield in Texas was reported to be the highest in the nation among the 9 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 2014. Certified seed acreage of the Texas Russet Norkotah strain selections continued to increase in 2014.

## 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 2015 were conducted at College Station, 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 conducted 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 been conducted in 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.

In 2015, one ZC study was reported.

We again confirmed that there is wide genetic variability among varieties/selections for ZC expression; however, no immunity was found. It appears that the mechanism contributing to cold sweetening may not be the same as that contributing to ZC resistance/tolerance. There was no definitive proof found associating ZC tolerance with late blight resistance, although it was not disproven.

In the future we will continue to work with the most promising chip selections from all US public breeding programs; these will be evaluated for yield and quality characteristics including ZC.

- The outstanding entries based on these trials will be subjected to control caged confirmation screening for ZC tolerance/resistance.
- Crosses between the most promising selections have been initiated to stack genes from our material and that of other programs.
- Laboratory characterization is ongoing.

Our program cooperated with a number of others at both the state and national levels. In Texas, we cooperated with Adrian Silva in Weslaco. At College Station, we cooperated with Dr. Cecilia Tamborindeguy (Entomology). At Springlake and Dalhart, we had cooperative trials with Dr. Ron French. We conducted major trials at Springlake and Dalhart. We also had cooperative studies with Drs. John Trumble and Sean Prager at Riverside, CA, and Rich Novy at Aberdeen, ID. A very successful Field Day was conducted in July at Springlake and was well attended by many, including the above mentioned cooperators.

## Acknowledgements

Financial support for this work was partially provided by the Texas Department of Agriculture/Texas A&M AgriLife Research, and USDA/NIFA Special Research Grants Program- Potato Research (Agreement # 2014-34141-22487). Significant in-kind support was generously provided by Bruce Barrett, Springlake Potato Sales, and Milt Carter, CSS Farms.

## **Introduction**

### Program Summary

The Texas Potato Breeding and Variety Development Program used two locations in the 2015 growing season (Table 1). The first planting was near Springlake on 8 to 16 April and harvested on 20 July, 4 and 18 August. This location included fifteen replicated trials, first generation seedlings for selection, and a spacing/fertility trial with one advanced Texas selection and check variety. The second planting was near Dalhart on 18 to 21 May and harvested on 21, 28 September, 5, and 19 October. Seventeen replicated trials, a seed increase nursery, and first year seedlings for selection were planted at this site.

The Texas program entered three selections (ATX98514-1R/Y, ATX05202S-3W/Y, and TXWL-1).in the Western Regional Red/ Specialty Trial. The Texas program also entered three selections in the Western Regional Russet Trial (COTX09022-3RuRE/Y, COTX09052-2Ru, and TX08352-5Ru). These trials were conducted at multiple locations in six western states.

The Texas Program had fifteen entries (NDTX081644CAB-2W, NDTX071109C-1W, TX09403-14W, NDTX102462C-6W, NDTX102514ABC-5W, COTX10076-1W, COTX10076-7W, NDTX102461AB-4W, NDTX102640Cb-1W, NDTX113059-1W, NDTX113218C-2W, NDTX113218C-3W, NDTX113266C-1W, NDTX113277-1W, and WTX10640-2W).in the USPB Fast-Track National Chip Processing Trial.

A major focus of the program in 2015 continued on Zebra Chip Research, with emphasis on varietal tolerance/resistance. 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 30 July at Springlake, and was well attended by over 50 growers and Zebra Chip collaborators from Mexico to Canada.

### Seedling program

In 2015, 79,312 first year seedling tubers, resulting from 493 different parental combination or families (crosses), were grown for selection. Some 37,231 seedling tubers were planted on the Barrett Farm near Springlake, while 42,081 were planted at CSS Farm near Dalhart. Four hundred and eighty eight original selections were made from this material (Figure 1).

The 2015 first year seedling tubers from Texas (14,081).were grown from true seed during the fall of 2013 at College Station. These seed were from crosses made in Lubbock. The remaining seedling tubers were provided by Rich Novy, Idaho (9,373), Sagar Sathuvalli and Solomon Yilma, Oregon (30,000), 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 (8,297), and North Dakota (3,639).for first year selections.

Table 1. Trial locations, name of trial, number of entries, and number of plots evaluated in 2015.

<b>Springlake</b>			<b>Dalhart</b>		
Trial	# of Entries	# of Plots	Trial	# of Entries	# of Plots
Field day Russets (not reported)	125	125	National Chip	185	239
Field day Red/Specialty(not reported)	108	108	Western and Southwestern Regional Chip	19	71
Western and Southwestern Regional Chip	23	92	Western and Southwestern Regional Russet	27	89
Western and Southwestern Regional Russet	27	106	Western and Southwestern Regional Red	6	21
Western and Southwestern Regional Red	8	29	Western and Southwestern Regional Red/Yellow	9	33
Western and Southwestern Regional Red/Yellow	9	40	Western and Southwestern Regional White/Yellow	11	43
Western and Southwestern Regional White/Yellow	13	52	Commercial Variety Chip	10	27
Texas Advanced Chip Selection	41	103	Texas Advanced Chip Selection	96	245
Texas Advanced Russet Selection	32	100	2014 Chip Selection	136	136
Texas Advanced Red Selection	12	48	Texas Advanced Russet Selection	34	105
Texas Advanced Red/Yellow Selection	4	16	2014 Russet Selection	38	38
Texas Advanced White/Yellow Selection	8	30	Texas Advanced Red Selection	14	49
Texas Advanced Small Potato Selection	20	72	2014 Red Selection	11	11
Texas Advanced Fingerling Selection	4	16	Texas Advanced Red/Yellow Selection	9	29
Texas Advanced Purple/Yellow Selection	6	18	2014 Red/Yellow Flesh Selection	9	9
Commercial Specialty	20	76	Texas Advanced White/Yellow Selection	13	36
Texas Advanced Purple/Purple Selection	3	12	2014 White/Yellow Flesh Selection	29	29
<b>Total</b>	<b>230</b>	<b>1043</b>	Texas Advanced Small Potato Selection	45	114
			2014 Small Potato Selection	12	12
			Texas Advanced Fingerling Selection	8	23
			2014 Fingerling Potato Selection	20	20
			Texas Advanced Purple/Yellow Selection	10	20
			Commercial Specialty	22	66
			Texas Advanced Purple/Purple Selection	5	15
			2014 Purple/Purple Selection	4	4
			<b>Total</b>	<b>773</b>	<b>1465</b>
			<b>Total Entries and Plots</b>	<b>1003</b>	<b>2508</b>

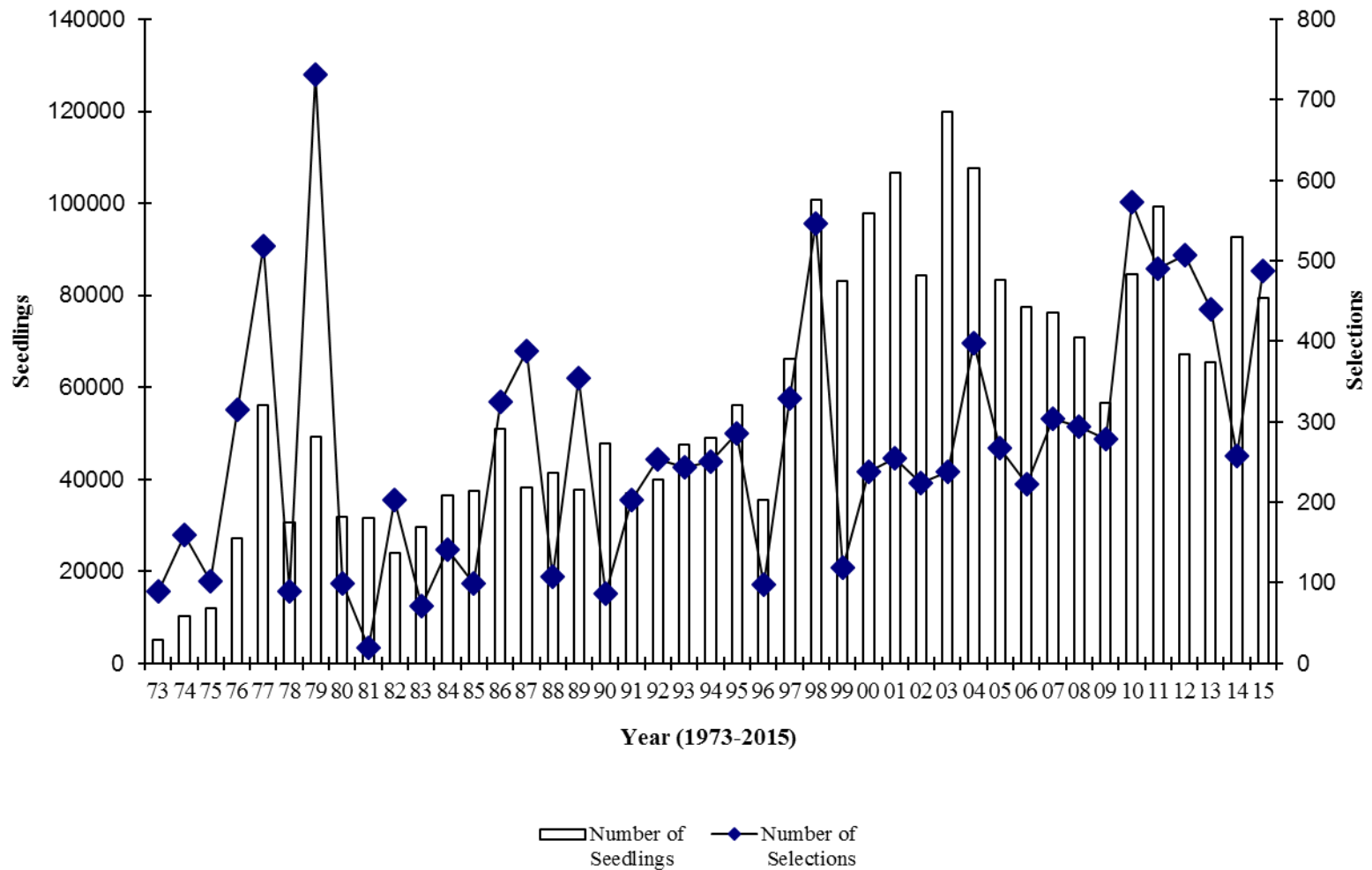


Figure. 1. Number of first year seedling tubers grown for original selection and number of selections made since the inception of the Texas Potato Variety Development Program.



### 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 773 entries were evaluated near Dalhart. A total of 2,508 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, 32,920 entries have been evaluated (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.

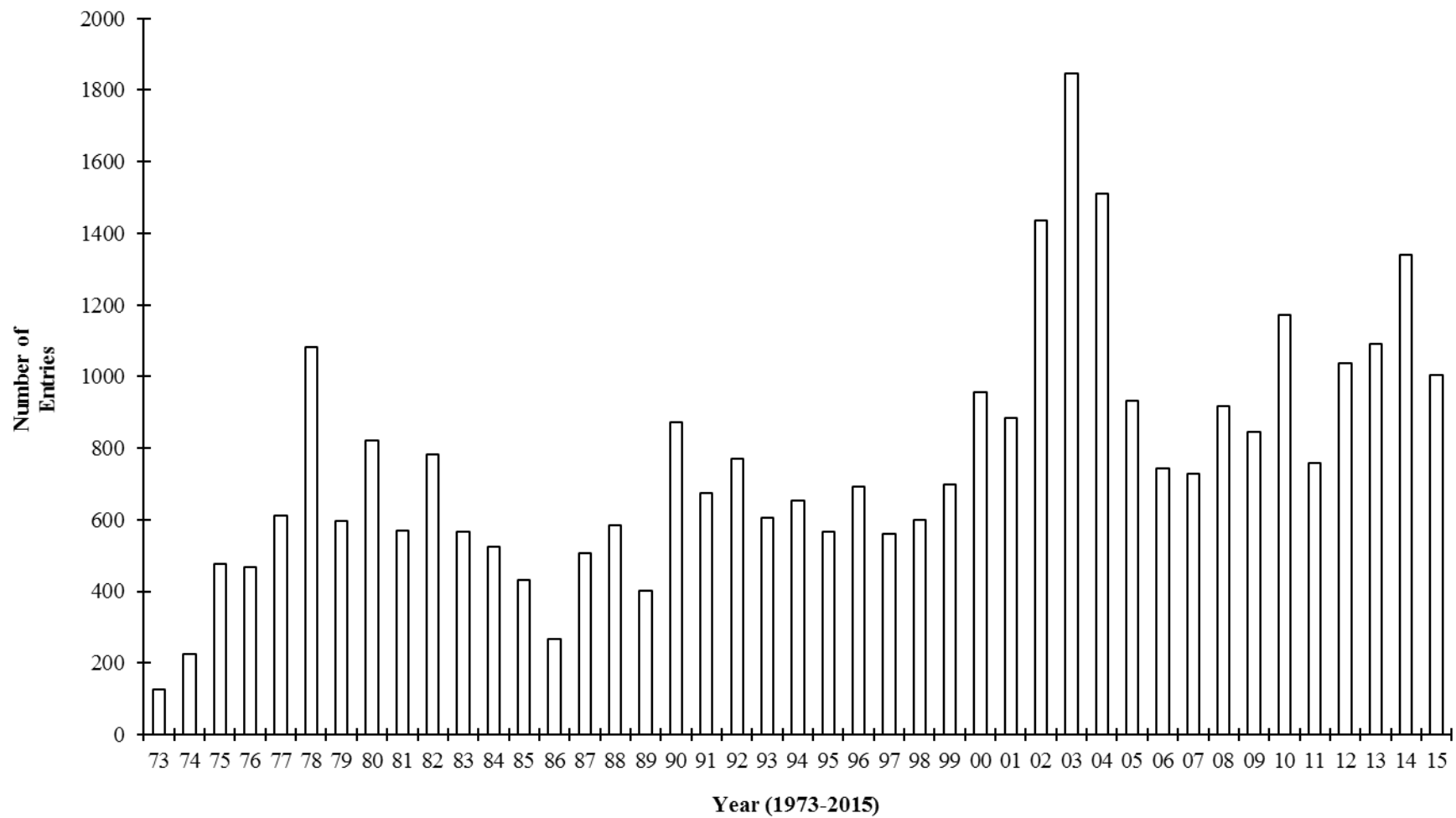


Figure 2. Number of varieties and advanced selections tested for their adaptability to Texas environmental conditions each year since the inception of the Texas Potato Variety Development Program in 1973.

## Springlake Trials, 2015

### Summary of growing conditions:

The trials were planted near Springlake on 8 to 16 April and harvested on 20 July, 4 and 18 August. Standard cultural practices for the area were used (Table 2). These trials were subjected to above average precipitation for May, June, July and August.

### 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/Purple Flesh
- Texas Advanced Purple/Yellow Flesh
- Commercial Specialty Trial (not reported)

Table 2. Environmental and cultural inputs for the 2015 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 8, 2015	
Vines Killed (Red, Red/Yellow, White/Yellow, Small)	July 16, 2015	98
Vines Killed (Chip)	July 22, 2015	104
Vines Killed (Russet)	August 11, 2015	123
Harvested (Red, Red/Yellow)	July 20, 2015	102
Harvested (White/Yellow, Chip, Small Potatoes)	August 4, 2015	116
Harvested (Russet)	August 18, 2015	130
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:		
155-34-34# per acre		
Irrigation:		
Center Pivot		
Seed Treatment Applied:		
Cruiser Maxx		
Insecticide:		
Movento, Agrimek, Blackhawk, Transform		
Fungicides Applied:		
Scala, Copper, Tanos		
Herbicides Applied:		
Sencor, Roundup, Dual, Matrix, Stealth		
Environmental Factors:		
These trials were subjected to above average precipitation for May, June, July and August.		

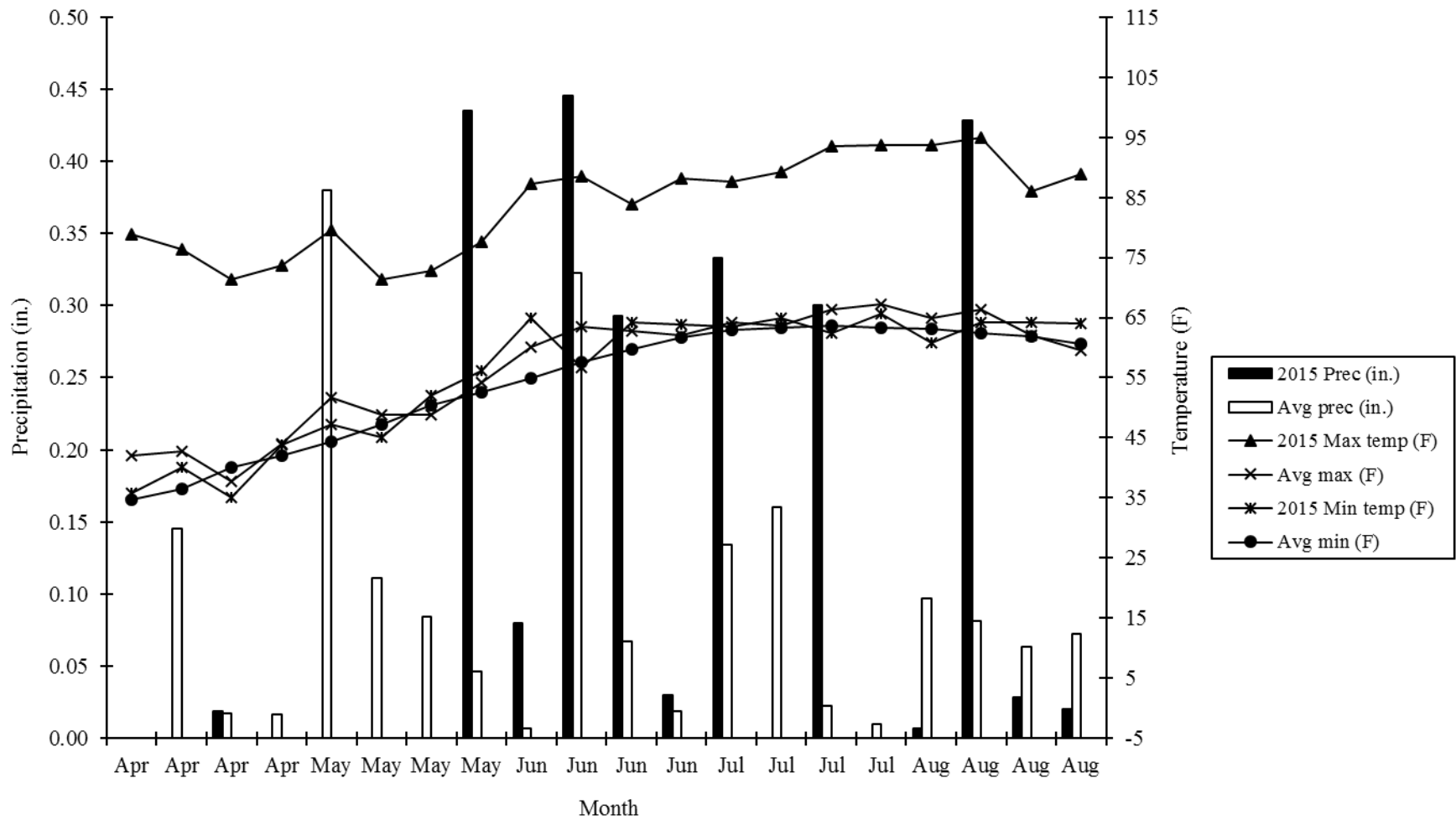


Figure 3. Weekly minimum/maximum temperatures and precipitation for the 2015 growing season near Springlake, Texas compared to the average minimum/maximum temperatures and precipitation (1949-2015).

## 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 twenty three entries, including the two check varieties Atlantic and Chipeta.

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 AC00206-2W (Table 1a and 1f).
- AC00206-2W, AC05153-1W, and AC03433-1W had the highest percent of good chips (Table 1f).
- Atlantic (CSS).had the highest total yield, while and BNC 182-5 had the highest marketable yield (Table 1a)
- AF 4157-6 had the highest yield of less than 4 oz. tubers. (Table 1a).
- BNC 182-5 had the highest percentage of U.S. No. 1's (Table 1b).
- Kea had the highest percentage of less than 4 oz. tubers (Table 1b).
- Atlantic and AF 4157-6 had the highest specific gravity (Table 1b).
- Atlantic had 10% internal brownspot (Table 1d).
- BNC 182-5, CIT#5, CIT#1, CO07070-13W, Kea, and MSK 061-4 all had over 10% Zebra Chip (Table f).

#### Comments on entries:

- Atlantic (CSS)            Round White keep, buff skin, heavy set, small, buff, some internal brownspot, BOT,CR=1
- NY 138                    Round White yield+, nice shape, light yellow flesh, nice size, nice shape, BOT CR=1

- BNC 182-5 Round White high yield, nice, nice shape and size, yellow flesh, BOT++, CR=2
- CIT#5 Round White variable size, heat sprouts, chain tubers, vascular discoloration, poor internals, small, sticky stolon, DROP+, CR=1
- NY 148 Round White variable size, yield+, nice shape and size, light yellow flesh, nice, smooth, BOT, CR=2
- AF 4157-6 Round White nice shape and skin, light set, smooth, BOT+, CR=1
- AF 4648-2 Round White nice, small, smooth, nice yield, ZC?, vascular discoloration, nice shape, deeper eyes, BOT+, CR=1
- CIT#1 Round White high yield, keep, nice shape, flat, nice skin, nice size, smooth skin, vascular discoloration, CR=1
- AC00206-2W Round White nice size and shape, smooth, nice flesh, CR=1
- CIT#8 Long White very nice long white, processor, nice yield, skinny, very white flesh, poor shape, long, skinny, ZC+, too long, some vascular discoloration, CR=1
- Atlantic (Oregon) Oblong White uniform, keep, buff, nice yield, buff, some internal brownspot, nice shape, poor internals, CR=1
- AC03452-2W Round White small, variable size, drop, smooth, nice shape, small, low yield, CR=2
- CIT#7 Oblong White terrible, drop, poor shape, pointed, skinny, ZC, long, skinny, CR=1
- CO07070-10W Round White light set, nice shape and size, CR=1
- CO07070-13W Round White drop, smooth, nice shape, ZC, smooth, nice size, CR=1
- AC05153-1W Round White nice, keep, BOT, nice shape, nice flesh, low yield, CR=1
- Snowden Round White variable size, nice shape, nice size, smooth, CR=2
- Kea Round White poor yield, drop+, sticky stolon, poor shape, yellow flesh, drop, small, light set, CR=1
- MSK 061-4 Round White small, drop, nice shape, vascular discoloration, small, light set, smooth skin, CR=1
- Baltic Cream Round White massive heat sprouts, small parent, drop+, very small size, heat sprouts, too small, culls, too small, B's, chain tubers, smooth, CR=1
- OR09256-2 Round White keep, nice size and shape, nice flesh low yield, CR=1

- AF 0338-17 Round White small, drop, nice shape, low yield, smooth, CR=3
- AC03433-1W Round White variable size, keep, small, light set, ZC, small, low yield, poor yield, small, drop, 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 AC00206-2W.



Springlake  
Table 1a.

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, Southwestern Regional and commercial Chip Trial grown near Springlake, 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> Field	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
ATLANTIC (CSS)	Hig	274.0	135.3	84.4	49.8	1.2	0.0	138.6	0.0	3.8	3.9
NY 138	Hig	266.2	164.6	129.6	34.9	0.0	0.0	101.6	0.0	4.5	3.7
BNC 182-5	Hig	261.4	184.6	64.6	93.3	26.6	0.0	75.4	1.4	4.0	4.3
CIT#5	CAN	251.3	70.0	55.3	13.1	1.6	0.0	114.4	66.9	2.7	3.1
NY 148	Hig	227.5	93.3	68.6	24.7	0.0	0.0	134.1	0.0	4.0	3.9
AF 4157-6	Hig	211.9	69.5	63.1	6.4	0.0	0.0	142.4	0.0	4.5	3.9
AF 4648-2	Hig	197.2	68.5	49.8	16.1	2.6	0.0	127.7	1.0	4.5	3.3
CIT#1	CAN	196.9	107.7	70.7	37.0	0.0	0.0	89.2	0.0	4.0	3.5
AC00206-2W	WR	192.4	88.5	70.9	17.6	0.0	0.0	103.9	0.0	4.0	3.8
CIT#8	CAN	180.1	120.7	72.9	30.6	17.1	0.0	58.9	0.5	4.5	2.5
Atlantic (Oregon)	WR	178.7	90.9	41.8	45.6	3.5	0.0	87.8	0.0	4.0	3.5
AC03452-2W	WR	176.3	81.6	67.4	14.2	0.0	0.0	92.7	2.1	2.5	3.4
CIT#7	CAN	172.9	54.8	40.4	14.3	0.0	0.0	86.6	31.5	1.0	2.6
CO07070-10W	SW	161.1	50.8	33.5	17.3	0.0	0.0	110.3	0.0	3.5	3.6
CO07070-13W	SW	149.5	60.0	46.3	13.7	0.0	0.0	89.5	0.0	2.8	3.6
AC05153-1W	WR	137.6	67.1	41.5	25.6	0.0	0.0	70.5	0.0	4.5	3.1
Snowden	WR	134.1	56.2	38.2	18.0	0.0	0.0	78.0	0.0	3.5	3.7
Kea	Hig	128.1	16.9	16.9	0.0	0.0	0.0	87.8	23.3	2.0	2.7
MSK 061-4	Hig	111.3	39.8	31.5	8.3	0.0	0.0	70.4	1.2	3.6	3.4
Baltic Cream	Hig	109.4	3.6	1.2	2.4	0.0	0.0	73.3	32.5	2.0	3.2
OR09256-2	WR	95.2	31.5	28.3	3.1	0.0	0.0	63.8	0.0	4.0	3.6
AF 0338-17	Hig	83.0	38.7	28.5	8.6	1.6	0.0	43.7	0.5	1.0	3.1
AC03433-1W	WR	72.8	28.7	27.5	1.2	0.0	0.0	44.1	0.0	3.5	2.0
Average		172.6	74.9	51.0	21.6	2.4	0.0	90.6	7.0	3.4	3.4
L.S.D. (.05)											

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

Springlake  
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 23 entries in the Western, Southwestern Regional and commercial Chip Trial grown near Springlake, 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				
ATLANTIC (CSS)	Hig	49.4	30.8	18.2	0.4	0.0	50.6	0.0	1.081	16.9	Round	White
NY 138	Hig	61.8	48.7	13.1	0.0	0.0	38.2	0.0	1.072	15.3	Round	White
BNC 182-5	Hig	70.6	24.7	35.7	10.2	0.0	28.8	0.5	1.067	14.4	Round	White
CIT#5	CAN	27.9	22.0	5.2	0.6	0.0	45.5	26.6	1.067	14.4	Round	White
NY 148	Hig	41.0	30.2	10.9	0.0	0.0	59.0	0.0	1.073	15.6	Round	White
AF 4157-6	Hig	32.8	29.8	3.0	0.0	0.0	67.2	0.0	1.082	17.2	Round	White
AF 4648-2	Hig	34.7	20.6	8.2	1.3	0.0	64.8	0.5	1.070	15.0	Round	White
CIT#1	CAN	54.7	35.9	18.8	0.0	0.0	45.3	0.0	1.073	15.6	Round	White
AC00206-2W	WR	46.0	36.8	9.2	0.0	0.0	54.0	0.0	1.073	15.5	Round	White
CIT#8	CAN	67.0	40.5	17.0	9.5	0.0	32.7	0.3	1.058	12.8	Long	White
Atlantic (Oregon)	WR	50.9	23.4	25.5	1.9	0.0	49.1	0.0	1.085	17.6	Oblong	White
AC03452-2W	WR	46.3	38.2	8.0	0.0	0.0	52.5	1.2	1.054	12.2	Round	White
CIT#7	CAN	31.7	23.4	8.3	0.0	0.0	50.1	18.2	1.063	13.7	Oblong	White
CO07070-10W	SW	31.5	20.8	10.7	0.0	0.0	68.5	0.0	1.087	18.0	Round	White
CO07070-13W	SW	40.1	31.0	9.1	0.0	0.0	59.9	0.0	1.068	14.6	Round	White
AC05153-1W	WR	48.7	30.2	18.6	0.0	0.0	51.3	0.0	1.072	15.4	Round	White
Snowden	WR	41.9	28.5	13.4	0.0	0.0	58.1	0.0	1.071	15.2	Round	White
Kea	Hig	13.2	13.2	0.0	0.0	0.0	68.6	18.2	1.078	16.4	Round	White
MSK 061-4	Hig	35.7	28.3	7.5	0.0	0.0	63.2	1.1	1.076	16.1	Round	White
Baltic Cream	Hig	3.3	1.1	2.2	0.0	0.0	67.0	29.7	1.073	15.6	Round	White
OR09256-2	WR	33.0	29.8	3.3	0.0	0.0	67.0	0.0	1.074	15.8	Round	White
AF 0338-17	Hig	46.7	34.4	10.4	1.9	0.0	52.7	0.6	1.068	14.7	Round	White
AC03433-1W	WR	39.4	37.8	1.7	0.0	0.0	60.6	0.0	1.067	14.4	Round	White
Average		41.2	28.7	11.2	1.1	0.0	54.5	4.2	1.072	15.3		
L.S.D. (.05)												

Springlake  
Table 1c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 23 entries in the Western, Southwestern Regional and commercial Chip Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	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>	
ATLANTIC (CSS)	Hig	6.6	3.5	2.0	99	2.0	3.7	3.8	3.7	3
NY 138	Hig	7.8	3.0	1.4	92	2.0	3.8	3.8	3.8	1
BNC 182-5	Hig	7.0	3.6	1.6	88	2.0	3.8	4.0	3.8	6
CIT#5	CAN	8.6	2.6	1.9	96	2.0	4.0	4.5	3.9	0
NY 148	Hig	8.0	2.4	2.4	99	2.0	3.8	4.4	3.8	0
AF 4157-6	Hig	7.8	2.2	2.8	100	2.1	3.6	3.5	3.6	10
AF 4648-2	Hig	8.0	2.2	1.9	100	2.1	3.9	4.2	3.8	0
CIT#1	CAN	6.0	3.0	1.9	91	2.0	3.7	4.2	3.7	0
AC00206-2W	WR	6.6	2.4	1.7	98	2.0	3.3	3.5	3.7	15
CIT#8	CAN	5.4	3.7	1.4	76	2.0	3.8	4.0	3.9	0
Atlantic (Oregon)	WR	5.2	3.2	1.5	90	2.0	3.3	4.2	3.5	3
AC03452-2W	WR	9.3	2.3	1.6	73	2.0	3.9	4.2	3.7	3
CIT#7	CAN	6.3	2.4	1.6	95	2.0	3.8	3.9	3.8	4
CO07070-10W	SW	7.0	2.0	1.8	97	2.0	3.6	3.4	3.6	23
CO07070-13W	SW	5.8	2.6	2.4	84	2.0	3.0	3.3	3.2	39
AC05153-1W	WR	8.3	2.3	1.9	63	2.0	2.6	3.2	2.8	21
Snowden	WR	4.3	2.6	2.7	100	2.0	4.1	4.3	4.0	5
Kea	Hig	7.5	1.5	1.8	96	1.8	4.0	4.3	4.0	0
MSK 061-4	Hig	6.0	2.4	1.5	73	2.0	3.8	4.4	3.8	0
Baltic Cream	Hig	10.0	1.0	2.4	95	2.0	4.5	4.5	4.5	0
OR09256-2	WR	4.6	1.9	2.0	100	2.0	4.0	3.9	4.0	11
AF 0338-17	Hig	3.5	2.6	1.7	71	2.0	2.7	3.9	2.7	3
AC03433-1W	WR	4.2	2.2	1.4	65	2.0	3.4	3.9	3.5	0
Average		6.7	2.5	1.9	89	2.0	3.7	4.0	3.7	6
L.S.D. (.05)										

<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 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 23 entries in the Western, Southwestern Regional and commercial Chip Trial grown near Springlake, 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
ATLANTIC (CSS)	Hig	1.0	2.3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NY 138	Hig	1.3	2.8	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BNC 182-5	Hig	2.0	2.0	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	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
NY 148	Hig	1.4	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AF 4157-6	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
AF 4648-2	Hig	1.0	2.0	1.3	3.0	1.3	5.0	5.0	5.0	5.0	5.0	0	0	3	0
CIT#1	CAN	1.0	2.1	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC00206-2W	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#8	CAN	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Atlantic (Oregon)	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	10
AC03452-2W	WR	1.0	2.0	1.3	4.0	1.3	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CIT#7	CAN	1.0	3.9	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO07070-10W	SW	1.0	2.3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO07070-13W	SW	1.0	2.3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
AC05153-1W	WR	1.0	2.4	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	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Kea	Hig	1.4	2.3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
MSK 061-4	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
Baltic Cream	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
OR09256-2	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
AF 0338-17	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
AC03433-1W	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
Average		1.1	2.3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	1	0
L.S.D. (.05)															

<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 23 entries in the Western, Southwestern Regional and commercial Chip Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
ATLANTIC (CSS)	Hig	keep, , ,	buff skin, BOT, heavy set, small, buff, buff, some internal brownspot	3.8, 3.8, 3.8, 3.8	4.5, 3.7, 3.8, 3.5
NY 138	Hig	BOT, , ,	yield+, nice shape, BOT, nice shape, light yellow flesh, nice size, nice shape	4.5, 4.5, 4.5, 4.5	4, 3.7, 3.8, 3.3
BNC 182-5	Hig	, , , high yield, nice, BOT-	nice shape and size, nice size and shape, yellow flesh, BOT, BOT+, nice size, yellow flesh, BOT-	4, 4, 4, 4	4, 4.5, 4.5, 4
CIT#5	CAN	, , variable size, heat sprouts, drop,	chain tubers, some vascular discoloration, chain tubers, poor internals, drop, low yield, small, vascular discoloration, sticky	2.7, 2.7, 2.7, 2.7	2, 3.8, 3.5, 3
NY 148	Hig	, variable size, ,	yield+, BOT, nice shape and size, light yellow flesh, nice, smooth, nice size, light yellow flesh ,	4, 4, 4, 4	4.4, 3.7, 3.8, 3.8
AF 4157-6	Hig	, , , BOT	nice shape and skin, BOT, light set, nice shape, , smooth, nice shape	4.5, 4.5, 4.5, 4.5	4.4, 3.5, 3.8, 3.8
AF 4648-2	Hig	, BOT, nice, ,	small, smooth, nice yield, BOT-, ZC?, Vascular discoloration, nice shape, deeper eyes	4.5, 4.5, 4.5, 4.5	2, 4, 3.8, 3.3
CIT#1	CAN	high yield, keep, , ,	nice shape, smooth,, flat, flat, nice skin, nice size, smooth skin, vascular discoloration	4, 4, 4, 4	3.7, 3.8, 3, 3.6
AC00206-2W	WR	, , , nice	nice size and shape, smooth, nice shape, nice size, nice flesh processor, nice yield, skinny, very white flesh, poor shape, long,	4, 4, 4, 4	3.8, 3.9, 3.8, 3.8
CIT#8	CAN	very nice long white, , ,	skinny, ZC+, too long, skinny, processor, some vascular buff, nice yield, light set, buff, some internal brownspot,	4.5, 4.5, 4.5, 4.5	3.5, 2, 2.5, 2
Atlantic (Oregon)	WR	, , , uniform, keep	brownspot, buff, nice shape, poor internals	4, 4, 4, 4	3.7, 3.3, 3.8, 3
AC03452-2W	WR	, , , small, variable size, drop	smooth, nice shape, , small, low yield, smooth, nice shape poor shape, poor shape, poor shape, pointed, skinny, ZC, poor	2.5, 2.5, 2.5, 2.5	3.8, 3.8, 3, 3
CIT#7	CAN	, , terrible, drop,	shape, long, skinny	1, 1, 1, 1	2, 4.5, 2, 2
CO07070-10W	SW	, , ,	, light set, nice shape and size,	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 4, 3.5
CO07070-13W	SW	, , , drop	smooth, nice shape, ZC, , smooth, nice shape and size	2.8, 2.8, 2.8, 2.8	3.6, 3.5, 3.5, 3.8
AC05153-1W	WR	, , , nice, keep, BOT	nice shape, nice flesh, , low yield	4.5, 4.5, 4.5, 4.5	3.6, 3.6, 2, 3.3
Snowden	WR	, , , heavy yield, variable size	nice shape, nice size, , smooth, nice shape and size	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.8, 3.8
Kea	Hig	, poor yield, drop, ,	, sticky stolon, poor shape, yellow flesh, drop, , small, light set nice shape vascular discoloration, small, light set, small, smooth	2, 2, 2, 2	3.3, 2, 3.3, 2
MSK 061-4	Hig	, , , small, drop	skin, small	3.6, 3.6, 3.6, 3.6	3.3, 3.3, 3.3, 3.5
Baltic Cream	Hig	, , , massive heat sprouts, small parent, drop	very small size, heat sprouts, too small, culls, too small, B's, chain tubers, drop, very small, smooth	2, 2, 2, 2	3.7, 3.7, 2.5, 3
OR09256-2	WR	, , , high yield, keep	, nice size, and shape, , nice flesh and shape, low yield	4, 4, 4, 4	3.5, 3.8, 3.5, 3.7
AF 0338-17	Hig	, small, drop, ,	, nice shape, low yield, low yield, smooth small, light set, ZC, small, light set, low yield, poor yield, small,	1, 1, 1, 1	3.7, 3.8, 3, 2
AC03433-1W	WR	, , , variable size, keep	drop	3.5, 3.5, 3.5, 3.5	2, 2, 2, 2

Springlake  
Table 1f. Specific gravity, percent solids, chip color rating, good chip bad chip ratio, notes, and percentage of Zebra Defect at chipping of 23 entries in the Western, Southwestern Regional and commercial Chip Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Gravity	% Solids	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect
ATLANTIC (CSS)	Hig	1.081	16.9	1	25/17	1scab	2%
NY 138	Hig	1.072	15.3	1	30/8	6scab	3%
BNC 182-5	Hig	1.067	14.4	2	26/12	1scab, yellow	11%
CIT#5	CAN	1.067	14.4	1	0/41	13BC,3scab,	10%
NY 148	Hig	1.073	15.6	2	16/22	9scab, yellow	8%
AF 4157-6	Hig	1.082	17.2	1	32/8	4scab	3%
AF 4648-2	Hig	1.070	15.0	1	20/20	1scab	3%
CIT#1	CAN	1.073	15.6	1	25/16	8scab	10%
AC00206-2W	WR	1.073	15.5	1	38/5	BOT	0%
CIT#8	CAN	1.058	12.8	1	0/42	3scab, 7stem1	5%
Atlantic (Oregon)	WR	1.085	17.6	1	21/18	9scab	3%
AC03452-2W	WR	1.054	12.2	2	22/18	Yellow	3%
CIT#7	CAN	1.063	13.7	1	22/19	3scab, 7stem1	5%
CO07070-10W	SW	1.087	18.0	1	36/9	3scab	9%
CO07070-13W	SW	1.068	14.6	1	29/9	3scab	11%
AC05153-1W	WR	1.072	15.4	1	34/4		3%
Snowden	WR	1.071	15.2	2	28/13	2scab	2%
Kea	Hig	1.078	16.4	1	21/16	5scab, yellow	11%
MSK 061-4	Hig	1.076	16.1	1	16/26	5scab, yellow	10%
Baltic Cream	Hig	1.073	15.6	1	9/31	was yellow and smal	5%
OR09256-2	WR	1.074	15.8	1	32/7	9scab, yellow	3%
AF 0338-17	Hig	1.068	14.7	3	10/29	9scab, Drop	3%
AC03433-1W	WR	1.067	14.4	1	38/2		3%

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 seven 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)

- ATX91137-1Ru, Russet Norkotah278, and COTX09022-3RuRE/Y received best of trial designations and high general ratings. (Table 2a and 2e).
- ATX91137-1Ru had the highest total and marketable yield. (Table 2a and 2e).
- A06021-1T had the highest yield of over 10 oz. tubers (Table 2a).
- COTX09052-2Ru had the highest yield of less than 4 oz. tubers. Russet Burbank had the highest yield of culls/No.2 tubers (Table 2a).
- OR05039-4 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).
- The highest specific gravity was recorded for A03921-2 (Table 2b).
- CO05068-1RU, A06862-18VR, OR05039-4, and AO01114-4 were the latest maturing clones. Russet Norkotah, COTX09022-3RuRE/Y, AC05039-2RU, CO07015-4RU, and TX08352-5Ru were the earliest maturing entries (Table 2c).
- A06862-18VR had 8% internal brownspot (Table 2d).

### Comments on entries:

- ATX91137-1Ru Oblong Russet BOT++
- Russet Norkotah296 Oblong Russet yield+, rough, did not size
- A06021-1T Oblong Russet heavy set, nice shape, BOT-
- CO07049-1RU Oblong Russet pointed, heavy set, variable size, B's, too small, DROP
- COTX09052-2Ru Oblong Russet a little pointed, nice shape, did not size, B's
- A03141-6 Oblong Russet heat sprouts, blocky, rough, poor shape, light net, very small, some pointed
- Russet Norkotah278 Oblong Russet heavy set, nice shape, some curved, BOT
- CO05110-6RU Oblong Russet nice, nice shape, small

- CO05068-1RU Oblong Russet heat sprouts, too small, B's
- Russet Burbank Long Russet heat sprouts, second growth, knobs, rough poor shape, skinny, pointed
- AO03123-2 Oblong Russet pointed, variable size, curved, skinny, light net, poor shape
- AOR06070-1KF Long Russet dumbbell, misshapen, poor net, skinny, small, light net
- Ranger Russet Long Russet poor shape, small, skinny, B's
- Russet Norkotah Long Russet second growth, raised eyes, small, nice shape
- COTX09022-3RuRE/Y Oblong Russet flesh color 3.5, blocky, keep, nice shape, small, nice flesh, BOT++
- Shepody Oblong White knobs, small, skinny
- A06914-3CR Long White knobs, heat sprouts, skinny, light net, light set, DROP
- A06862-18VR Long Russet B's, poor internals, small, DROP
- AC05039-2RU Oblong Russet nice shape, blocky, small, light set, DROP
- CO07015-4RU Oblong Russet very small, nice shape, B's, light set
- A06084-1TE Oblong Russet variable, size, poor shape, light set, DROP
- CO05175-1RU Long Russet pointed, light net, very skinny, poor shape, DROP
- TX08352-5Ru Oblong Russet uniform, smaller than normal, too round, blocky
- POR06V12-3 Oblong Russet shape?, low yield, DROP
- OR05039-4 Oblong Russet light net, some curved, light set
- A03921-2 Oblong White pointed, light net
- AO01114-4 Long Russet nice shape, small

Summary:

ATX91137-1Ru was the outstanding entry. Russet Norkotah278 and COTX09022-3RuRE/Y also deserve mention.



Springlake  
Table 2a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 27 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, 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> Field	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
ATX91137-1RU	TX-CO	304.7	171.8	73.3	92.7	5.9	0.0	122.4	10.5	3.7	4.1
Russet Norkotah 296	TX-CO	231.1	108.0	56.5	45.1	6.4	0.0	101.6	21.4	4.3	3.2
A06021-1T	WR	226.6	148.5	69.0	56.2	23.3	0.0	73.3	4.8	3.3	3.7
CO07049-1RU	SW	217.8	64.3	51.2	13.1	0.0	0.0	148.7	4.8	2.8	2.9
COTX09052-2Ru	WR	214.9	52.4	47.5	4.8	0.0	0.0	159.5	2.9	3.9	3.0
A03141-6	WR	206.2	120.3	54.6	56.7	9.0	0.0	59.8	26.1	3.2	2.7
Russet Norkotah 278	TX-CO	206.0	117.7	61.0	53.4	3.3	0.0	78.3	10.0	4.5	3.7
CO05110-6RU	WR	203.5	114.6	68.1	40.3	6.2	0.0	86.1	2.8	3.5	3.6
CO05068-1RU	WR	189.6	68.1	32.7	35.4	0.0	0.0	84.5	37.0	3.2	2.5
Russet Burbank	WR	188.8	55.5	48.2	4.3	2.9	0.0	83.8	49.4	1.5	1.8
AO03123-2	WR	187.7	115.5	59.1	44.4	11.9	0.0	66.0	6.2	3.2	3.1
AOR06070-1KF	WR	186.5	94.9	56.7	28.5	9.7	0.0	74.8	16.8	2.8	2.8
Ranger Russet	WR	172.3	86.4	56.2	29.0	1.2	0.0	68.1	17.8	2.0	2.3
Russet Norkotah	WR	168.4	110.3	44.4	48.7	17.1	0.0	57.2	0.9	3.0	3.6
COTX09022-3RuRE/Y	WR	164.2	75.7	44.9	30.8	0.0	0.0	88.5	0.0	3.7	4.3
Shepody	WR	155.7	54.3	32.2	22.1	0.0	0.0	81.2	20.2	3.0	2.8
A06914-3CR	WR	151.8	67.8	30.6	32.5	4.7	0.0	47.0	37.0	2.3	3.1
A06862-18VR	WR	150.7	62.2	33.2	26.3	2.8	0.0	76.7	11.8	2.8	2.5
AC05039-2RU	WR	148.1	61.5	33.7	26.4	1.4	0.0	82.6	4.0	2.5	3.1
CO07015-4RU	SW	145.7	24.7	24.7	0.0	0.0	0.0	120.0	1.0	2.8	2.8
A06084-1TE	WR	145.2	64.5	43.0	20.2	1.2	0.0	66.2	14.5	2.5	2.6
CO05175-1RU	WR	141.2	74.7	39.1	33.4	2.2	0.0	37.9	28.7	2.5	2.1
TX08352-5Ru	WR	139.7	60.3	35.3	25.1	0.0	0.0	78.7	0.7	3.3	3.4
POR06V12-3	WR	133.8	58.8	31.1	22.6	5.0	0.0	58.6	16.4	2.7	2.0
OR05039-4	WR	132.8	88.8	40.8	43.4	4.7	0.0	43.6	0.3	3.0	2.8
A03921-2	WR	103.2	64.8	34.7	21.8	8.3	0.0	36.0	2.4	3.4	3.3
AO01114-4	WR	82.1	60.2	21.1	32.8	6.2	0.0	22.0	0.0	4.3	3.5
Average		180.5	84.9	46.7	33.4	4.8	0.0	81.8	13.8	3.0	3.0
L.S.D. (.05)											

<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 27 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, 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				
ATX91137-1RU	TX-CO	56.4	24.0	30.4	1.9	0.0	40.2	3.5	1.068	14.7	Oblong	Russet
Russet Norkotah 296	TX-CO	46.7	24.5	19.5	2.8	0.0	44.0	9.3	1.070	15.0	Oblong	Russet
A06021-1T	WR	65.5	30.4	24.8	10.3	0.0	32.3	2.1	1.078	16.5	Oblong	Russet
CO07049-1RU	SW	29.5	23.5	6.0	0.0	0.0	68.3	2.2	1.065	14.1	Oblong	Russet
COTX09052-2Ru	WR	24.4	22.1	2.3	0.0	0.0	74.3	1.4	1.070	15.0	Oblong	Russet
A03141-6	WR	58.3	26.5	27.5	4.4	0.0	29.0	12.7	1.075	15.9	Oblong	Russet
Russet Norkotah 278	TX-CO	57.1	26.6	25.9	1.6	0.0	38.0	4.9	1.069	14.8	Oblong	Russet
CO05110-6RU	WR	56.3	33.5	19.8	3.1	0.0	42.3	1.4	1.076	16.0	Oblong	Russet
CO05068-1RU	WR	35.9	17.2	18.7	0.0	0.0	44.6	19.5	1.078	16.5	Oblong	Russet
Russet Burbank	WR	29.4	25.5	2.3	1.6	0.0	44.4	26.2	1.071	15.1	Long	Russet
AO03123-2	WR	61.5	31.5	23.7	6.4	0.0	35.2	3.3	1.075	15.8	Oblong	Russet
AOR06070-1KF	WR	50.9	30.4	15.3	5.2	0.0	40.1	9.0	1.080	16.9	Long	Russet
Ranger Russet	WR	50.2	32.6	16.9	0.7	0.0	39.5	10.3	1.077	16.2	Long	Russet
Russet Norkotah	WR	65.5	26.4	29.0	10.2	0.0	34.0	0.5	1.066	14.3	Long	Russet
COTX09022-3RuRE/Y	WR	46.1	27.4	18.7	0.0	0.0	53.9	0.0	1.076	16.0	Oblong	Russet
Shepody	WR	34.9	20.6	14.2	0.0	0.0	52.2	13.0	1.080	16.8	Oblong	White
A06914-3CR	WR	44.6	20.2	21.4	3.1	0.0	31.0	24.4	1.071	15.1	Long	White
A06862-18VR	WR	41.3	22.0	17.4	1.8	0.0	50.9	7.8	1.066	14.3	Long	Russet
AC05039-2RU	WR	41.5	22.8	17.9	0.9	0.0	55.8	2.7	1.070	15.0	Oblong	Russet
CO07015-4RU	SW	17.0	17.0	0.0	0.0	0.0	82.3	0.7	1.073	15.6	Oblong	Russet
A06084-1TE	WR	44.4	29.6	13.9	0.8	0.0	45.6	10.0	1.073	15.5	Oblong	Russet
CO05175-1RU	WR	52.9	27.7	23.6	1.6	0.0	26.8	20.3	1.066	14.2	Long	Russet
TX08352-5Ru	WR	43.2	25.2	17.9	0.0	0.0	56.3	0.5	1.071	15.3	Oblong	Russet
POR06V12-3	WR	43.9	23.3	16.9	3.7	0.0	43.8	12.3	1.078	16.4	Oblong	Russet
OR05039-4	WR	66.9	30.7	32.7	3.5	0.0	32.8	0.3	1.068	14.7	Oblong	White
A03921-2	WR	62.8	33.7	21.1	8.0	0.0	34.8	2.3	1.085	17.7	Long	Russet
AO01114-4	WR	73.3	25.7	40.0	7.6	0.0	26.7	0.0	1.071	15.2	Long	Russet
Average L.S.D. (.05)		46.6	25.6	18.3	2.5	0.0	45.5	7.9	1.072	15.4		

Springlake  
Table 2c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 27 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	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>	
ATX91137-1RU	TX-CO	7.1	3.6	1.8	100	1.9	4.1	4.0	4.0	49
Russet Norkotah 296	TX-CO	7.0	2.8	2.4	100	2.0	4.1	4.0	4.1	68
A06021-1T	WR	5.2	3.6	1.9	100	2.0	3.8	3.8	3.7	79
CO07049-1RU	SW	6.8	2.7	2.1	98	2.1	3.8	3.6	3.7	53
COTX09052-2Ru	WR	8.8	2.0	2.1	99	2.0	4.2	4.4	4.0	49
A03141-6	WR	4.5	3.8	2.2	100	2.0	4.1	4.2	4.1	39
Russet Norkotah 278	TX-CO	5.3	3.3	2.7	100	2.0	3.8	3.6	3.8	81
CO05110-6RU	WR	5.1	3.3	1.8	100	2.4	3.6	3.8	3.6	44
CO05068-1RU	WR	6.2	2.5	1.8	100	2.0	4.3	4.5	4.1	14
Russet Burbank	WR	6.0	2.6	2.3	100	2.0	3.9	3.9	3.9	65
AO03123-2	WR	4.5	3.4	2.2	100	2.0	3.8	3.9	3.9	36
AOR06070-1KF	WR	5.2	3.0	2.8	100	2.0	4.0	3.9	3.9	39
Ranger Russet	WR	4.4	3.3	1.8	100	2.0	3.8	4.1	3.9	19
Russet Norkotah	WR	3.6	3.9	2.2	100	2.0	3.8	3.4	3.7	100
COTX09022-3RuRE/Y	WR	5.4	2.5	1.9	97	2.4	3.4	3.5	3.6	91
Shepody	WR	5.1	2.6	1.9	98	2.0	4.0	4.1	3.9	78
A06914-3CR	WR	4.2	3.1	2.1	100	2.0	3.8	4.0	3.8	70
A06862-18VR	WR	4.9	2.6	1.7	96	2.0	4.1	4.5	12.7	0
AC05039-2RU	WR	4.3	2.9	2.2	100	2.0	3.7	3.5	3.7	55
CO07015-4RU	SW	6.7	1.9	2.5	100	2.3	3.6	3.5	3.6	80
A06084-1TE	WR	4.0	3.0	2.7	100	2.0	3.9	4.1	3.9	61
CO05175-1RU	WR	3.9	3.1	2.3	99	2.0	4.0	4.5	3.9	6
TX08352-5Ru	WR	4.0	3.0	2.1	100	2.0	3.7	3.5	3.7	94
POR06V12-3	WR	4.3	2.8	1.7	99	1.9	4.2	4.3	4.0	39
OR05039-4	WR	3.3	3.4	1.4	99	2.0	3.8	4.4	3.8	25
A03921-2	WR	2.9	3.5	1.8	84	2.0	4.4	4.2	4.2	19
AO01114-4	WR	1.6	4.4	2.5	100	1.9	4.1	4.4	4.1	86
Average L.S.D. (.05)		5.2	3.0	2.1	99	2.0	3.9	3.9	4.2	53

<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 27 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, 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
ATX91137-1RU	TX-CO	1.0	3.9	4.8	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah 296	TX-CO	1.0	4.0	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A06021-1T	WR	1.0	3.8	3.5	3.9	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO07049-1RU	SW	1.0	2.8	4.0	4.0	3.9	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09052-2Ru	WR	1.0	2.8	3.6	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A03141-6	WR	1.0	3.6	1.8	3.8	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah 278	TX-CO	1.0	4.0	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05110-6RU	WR	1.0	3.3	4.0	4.0	3.9	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05068-1RU	WR	1.0	3.0	3.8	3.9	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Burbank	WR	1.0	4.0	3.4	3.5	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AO03123-2	WR	1.0	3.9	2.6	3.9	2.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOR06070-1KF	WR	1.0	3.5	2.8	3.9	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Ranger Russet	WR	1.0	4.0	3.5	3.3	3.5	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	3.5	2.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Shepody	WR	1.0	3.3	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A06914-3CR	WR	1.0	4.0	2.3	3.6	2.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A06862-18VR	WR	1.0	2.7	3.2	3.7	3.2	5.0	5.0	5.0	5.0	5.0	0	0	0	8
AC05039-2RU	WR	1.0	3.3	3.6	3.8	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO07015-4RU	SW	1.0	2.6	4.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A06084-1TE	WR	1.0	3.5	3.5	3.7	3.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05175-1RU	WR	1.0	4.0	2.5	3.6	2.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX08352-5Ru	WR	1.0	2.5	3.8	4.0	3.9	5.0	5.0	5.0	5.0	5.0	0	0	0	0
POR06V12-3	WR	1.0	3.5	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
OR05039-4	WR	1.0	3.8	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A03921-2	WR	1.0	4.0	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AO01114-4	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
Average		1.1	3.5	3.3	3.8	3.3	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 27 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
ATX91137-1RU	TX-CO	, , BOT-,	BOT++, , ,	3.7, 3.7, 3.7, 3.7	4, 3.8, 4.5, 4
Russet Norkotah 296	TX-CO	, , ,	yield+, rough, did not size, ,	4.3, 4.3, 4.3, 4.3	3.4, 3, 3, 3.4
A06021-1T	WR	, , ,	heavy set, nice shape, BOT-, , ,	3.3, 3.3, 3.3, 3.3	3.5, 3.7, 3.8, 3.7
CO07049-1RU	SW	, pointed, heavy set, variable size, drop, ,	heavy set, B's, , too small,	2.8, 2.8, 2.8, 2.8	3.3, 2.5, 2.5, 3.3
COTX09052-2Ru	WR	a little pointed, BOT, , ,	nice shape, did not size, B's, , ,	3.9, 3.9, 3.9, 3.9	3.3, 2.7, 2.5, 3.3
A03141-6	WR	heat sprouts, blocky, , ,	rough, poor shape, light net, very small , , some pointed	3.2, 3.2, 3.2, 3.2	3, 2.5, 2.5, 2.7
Russet Norkotah 278	TX-CO	, BOT, ,	heavy set, nice shape, , , some curved	4.5, 4.5, 4.5, 4.5	3.8, 3.8, 3.5, 3.5
CO05110-6RU	WR	, , , nice	nice shape, small, , ,	3.5, 3.5, 3.5, 3.5	3.5, 3.6, 3.6, 3.5
CO05068-1RU	WR	heat sprouts, , ,	, too small, B's, ,	3.2, 3.2, 3.2, 3.2	2.5, 2.5, 2.5, 2.5
Russet Burbank	WR	poor shape, heat sprouts, second growth, knobs, , ,	, rough poor shape, skinny, pointed, nice shape, curved, pointed, skinny, light net, poor shape	1.5, 1.5, 1.5, 1.5	1.5, 1.5, 2, 2
AO03123-2	WR	, , , pointed, variable size	shape	3.2, 3.2, 3.2, 3.2	3.7, 3, 3, 2.5
AOR06070-1KF	WR	dumbbell, misshapen, , ,	, poor net, skinny, small, light net,	2.8, 2.8, 2.8, 2.8	3, 3, 2.5, 2.5
Ranger Russet	WR	poor shape, , ,	, small, skinny, B's, poor shape,	2, 2, 2, 2	2.5, 2, 2.5, 2
Russet Norkotah	WR	, , , second growth, raised eyes	, small, nice shape, ,	3, 3, 3, 3	3.6, 3.6, 3.6, 3.6
COTX09022-3RuRE/Y	WR	. fl 3.5, blocky, keep, BOT-, , ,	BOT, nice shape, small, nice flesh, ,	3.7, 3.7, 3.7, 3.7	4.5, 4, 4.5, 4
Shepody	WR	, knobs, ,	small, , skinny,	3, 3, 3, 3	3, 3, 2.5, 2.5
A06914-3CR	WR	knobs, heat sprouts, drop, , ,	skinny, light net, , , light set	2.3, 2.3, 2.3, 2.3	3.3, 3.3, 3.4, 2.5
A06862-18VR	WR	, , drop,	B's, poor internals, , , small	2.8, 2.8, 2.8, 2.8	2.5, 2.5, 2.5, 2.5
AC05039-2RU	WR	, , , nice shape, blocky, drop	, small, nice shape, light set,	2.5, 2.5, 2.5, 2.5	3.5, 3, 3, 3
CO07015-4RU	SW	, , , nice shape, small	very small, nice shape, B's, light set,	2.8, 2.8, 2.8, 2.8	2.5, 3, 3.3, 2.5
A06084-1TE	WR	, , heavy set, variable, size, drop,	poor shape, small, small , , light set	2.5, 2.5, 2.5, 2.5	2.5, 3, 2.5, 2.5
CO05175-1RU	WR	, , skinny, drop,	pointed, light net, very skinny, poor shape, ,	2.5, 2.5, 2.5, 2.5	2, 2, 2, 2.5
TX08352-5Ru	WR	uniform, smaller than normal, , ,	, too round, blocky,	3.3, 3.3, 3.3, 3.3	3, 3, 3.7, 3.7
POR06V12-3	WR	, shape?, drop, ,	, , , low yield	2.7, 2.7, 2.7, 2.7	2, 2, 2, 2
OR05039-4	WR	, , ,	light net, some curved, , , light set	3, 3, 3, 3	2.5, 2.5, 3, 3
A03921-2	WR	, , pointed,	light net, , ,	3.4, 3.4, 3.4, 3.4	3.3, 3.2, 3.2, 3.3
AO01114-4	WR	, , , nice shape	nice shape, , , small, nice shape	4.3, 4.3, 4.3, 4.3	3.5, 3.5, 3.5, 3.5

## Western and Southwestern Regional Red Trial, Springlake

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

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

- CIT #4 and Red LaSoda had the highest general rating and best of trial designation, (Table 3a and Table 3e).
- CIT #4 had the highest total yield while Red LaSoda had the highest marketable yield (Table 3a).
- ATTX98453-6R had the highest yield of over 10 oz. tubers. CIT #2 had the highest yield of less than 4 oz. tubers (Table 3a).
- ATTX98453-6R had the highest percentage of marketable yield, and of over 10 oz. tubers. CO07102-1R had the highest percent of less than 4 oz. tubers. (Table 3b).
- CIT #4 had the highest average number of tubers per plant. Red LaSoda and NDA050237B-1R were the latest maturing, while CIT #2 and CIT #4 were the earliest (Table 3c).
- Red LaSoda had the deepest eyes and 18% vascular discoloration (Table 3d).

### Comments on entries:

- CIT #4 Oblong Red/yell nice shape and yellow flesh, heavy set, ZC??, BOT-
- CIT #2 Oblong Red/yell small, heavy set, nice skin, BOT for red yellow flesh
- Red LaSoda Oblong Red deep eyes, some vascular discoloration, BOT
- Chieftan Oblong Red lots of B's, nice shape, light skin color
- NDTX5438-11R Oblong Red smooth, heavy set of B's, nice skin color and shape, BOT+
- ATTX98453-6R Oblong Red variable size, nice shape, light yield, DROP
- NDA050237B-1R Oblong Red sticky stolon, small, very dark skin color, very white flesh
- CO07102-1R Oblong Red pointed, raised lenticels, poor stand, very low yield

### Summary:

CIT #4 and Red LaSoda were the outstanding entries based on general ratings and best of trial designations.

Springlake  
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 Springlake, 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> Field	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
CIT #4	CAN	273.8	159.2	97.0	59.3	2.9	0.0	114.6	0.0	2.7	4.0
CIT #2	CAN	254.8	137.1	64.3	62.9	9.9	0.0	117.7	0.0	2.5	3.9
Red LaSoda	WR	243.2	171.0	49.6	93.5	27.8	0.0	57.6	14.7	4.0	3.5
Chieftan	WR	174.9	94.6	50.5	41.0	3.1	0.0	80.4	0.0	3.0	3.7
NDTX5438-11R	TX-CO	169.7	87.1	32.2	42.5	12.4	0.0	82.6	0.0	3.8	4.1
ATTX98453-6R	TX-CO	163.4	125.8	40.8	30.4	54.6	0.0	37.5	0.0	2.0	3.6
NDA050237B-1R	WR	105.1	43.2	28.3	10.0	4.8	0.0	61.9	0.0	4.0	3.6
CO07102-1R	SW	21.8	7.1	2.1	3.6	1.4	0.0	14.7	0.0	1.5	3.0
Average L.S.D. (.05)		175.8	103.1	45.6	42.9	14.6	0.0	70.9	1.8	2.9	3.7

<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 8 entries in the Western and Southwestern Regional Red Trial grown near Springlake, 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				
CIT #4	CAN	58.1	35.4	21.7	1.1	0.0	41.9	0.0	1.075	15.9	Oblong	Red/yell
CIT #2	CAN	53.8	25.2	24.7	3.9	0.0	46.2	0.0	1.070	15.0	Oblong	Red/yell
Red LaSoda	WR	70.3	20.4	38.5	11.4	0.0	23.7	6.0	1.062	13.6	Oblong	Red
Chieftan	WR	54.1	28.9	23.4	1.8	0.0	45.9	0.0	1.068	14.6	Oblong	Red
NDTX5438-11R	TX-CO	51.3	18.9	25.1	7.3	0.0	48.7	0.0	1.064	13.9	Oblong	Red
ATTX98453-6R	TX-CO	77.0	25.0	18.6	33.4	0.0	23.0	0.0	1.072	15.4	Oblong	Red
NDA050237B-1R	WR	41.1	14.3	9.5	4.6	0.0	58.9	0.0	1.053	12.0	Oblong	Red
CO07102-1R	SW	32.5	9.5	16.7	6.3	0.0	67.5	0.0	1.055	12.3	Oblong	Red
Average L.S.D. (.05)		54.8	22.2	22.3	8.7	0.0	44.5	0.8	1.065	14.1		



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 8 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	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>	
CIT #4	CAN	8.2	2.8	1.7	100	2.6	3.0	1.9	2.3	44
CIT #2	CAN	7.9	2.7	2.3	97	2.6	3.0	2.2	2.3	38
Red LaSoda	WR	6.2	4.2	2.0	82	2.1	4.3	4.4	4.3	3
Chieftan	WR	5.6	2.8	1.7	95	2.0	3.2	3.4	3.0	9
NDTX5438-11R	TX-CO	7.5	2.4	2.1	79	2.0	3.6	4.1	3.8	0
ATTX98453-6R	TX-CO	6.5	4.1	2.1	54	2.0	1.4	4.0	1.9	11
NDA050237B-1R	WR	4.3	2.0	1.8	99	1.8	5.0	5.0	5.0	0
CO07102-1R	SW	6.2	1.8	1.8	25	1.8	1.0	4.3	1.3	31
Average L.S.D. (.05)		6.5	2.8	1.9	79	2.1	3.1	3.6	3.0	17

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

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

<sup>5</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 8 entries in the Western and Southwestern Regional Red Trial grown near Springlake, 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
CIT #4	CAN	3.0	3.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CIT #2	CAN	3.0	3.0	1.0	4.0	3.6	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	3.5	5.0	5.0	5.0	5.0	5.0	0	0	18	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
NDTX5438-11R	TX-CO	1.0	3.0	1.0	4.0	4.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98453-6R	TX-CO	1.0	3.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDA050237B-1R	WR	1.0	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO07102-1R	SW	1.0	3.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.5	3.0	1.0	3.8	3.7	5.0	5.0	5.0	5.0	5.0	0	0	2	0
L.S.D. (.05)															

<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 8 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
CIT #4	CAN	, , ,	, nice shape and yellow flesh, , heavy set, ZC??, BOT-	2.7, 2.7, 2.7, 2.7	4, 4, 4, 4
CIT #2	CAN	, , ,	, , BOT for red yellow flesh, small, heavy set, nice skin and yellow flesh	2.5, 2.5, 2.5, 2.5	4, 3.9, 4, 3.7
Red LaSoda	WR	, BOT, ,	, deep eyes, some vascular discoloration, ,	4, 4, 4, 4	3.6, 3.5, 3.5, 3.5
Chieftan	WR	, , ,	lots of B's, , nice shape, light skin color,	3, 3, 3, 3	3.7, 3.6, 3.6, 3.7
NDTX5438-11R	TX-CO	, , , poor skin finish, smooth, BOT-	heavy set of B's, , , BOT for skin color and shape	3.8, 3.8, 3.8, 3.8	4.2, 4, 4, 4.2
ATTX98453-6R	TX-CO	drop, , ,	variable size, nice shape, , light yield, small, very dark skin color, poor rep drop rep, very white flesh,	2, 2, 2, 2	3.6, 3.6, 3.6, 3.6
NDA050237B-1R	WR	sticky stolon, excellent color, , ,		4, 4, 4, 4	3.7, 3.5, 3.7, 3.6
CO07102-1R	SW	, , , pointed, raised lenticels,	, , poor stand, very low yield,	1.5, 1.5, 1.5, 1.5	3, 3, 3, 3

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

This trial consisted of nine entries.

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

- CO05037-2R/Y had a best of trial designation, while ATTX98444S-16R/Y, A05180-3PY, AC05175-3P/Y, and COA07365-4RY also received high general ratings (Table 4a and 4f).
- ATTX98444S-16R/Y had the highest total yield, while ATTX00289-5R/Y had the highest marketable yield (Table 4a).
- ATTX98444S-16R/Y had the highest yield of less than 4 oz. tubers (Table 4a).
- ATTX00289-5R/Y had the highest percentage of marketable yield. CO05037-2R/Y, COA07365-4RY, and ATTX98444S-16R/Y had the highest percentage of less than 4 oz. tubers (Table 4b).
- ATTX98444S-16R/Y had the highest average number of tubers per plant (Table 4c).
- A05180-3PY and ATTX98514-1R/Y were the latest in maturity, while CO05037-2R/Y was the earliest in maturity (Table 4c).
- CO05037-2R/Y had the darkest yellow flesh color (Table 4d).

### Comments on entries:

- ATTX98444S-16R/Y Round Red Bruce Likes, light skin, heavy set B's, yield+, keep, FC<sup>1</sup>=2.5
- A05180-3PY Round Purple rough, deep eyes, very nice purple skin color, nice shape and flesh, light flesh, DROP? FC=2.5
- ATTX00289-5R/Y Oblong Red mixed seed source, poor skin, variable skin color, DROP+, FC=2.0
- AC05175-3P/Y Round Purple nice, scurf, sticky stolons, nice skin, FC=2.5
- CO05037-2R/Y Oblong Red small parent, very small, BOT for small potato, nice skin and flesh, FC=3.5
- COA07365-4RY Round Red small potato, good skin color, Bruce Likes, FC=3.0
- CO04021-2R/Y Oblong Red nice yellow flesh, light skin color, poor shape, low yield, small, FC=2.5
- BTX2103-1R/Y Oblong Red small, poor yield, nice flesh, light set, FC=3.0
- ATTX98514-1R/Y Oblong Red DROP, FC=ND

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

Summary:

CO05037-2R/Y, ATTX98444S-16R/Y, A05180-3PY, AC05175-3P/Y, and COA07365-4RY 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 9 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, 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> Field	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz					
ATTX98444S-16R/Y	TX-CO	282.3	19.5	19.5	0.0	0.0	262.7	0.0	3.5	3.8
A05180-3PY	WR	218.7	48.4	36.5	11.9	0.0	170.3	0.0	3.0	3.8
ATTX00289-5R/Y	WR	180.3	84.5	45.8	38.7	0.0	95.8	0.0	1.5	2.5
AC05175-3P/Y	TX-CO	174.6	52.9	38.0	14.9	0.0	121.7	0.0	3.5	3.7
CO05037-2R/Y	WR	157.5	4.7	4.7	0.0	0.0	152.8	0.0	2.0	3.7
COA07365-4RY	WR	138.5	10.4	10.4	0.0	0.0	128.1	0.0	4.5	3.8
CO04021-2R/Y	WR	51.5	10.5	4.0	6.6	0.0	41.0	0.0	3.0	2.5
BTX2103-1R/Y	WR	46.8	6.9	5.0	1.9	0.0	39.9	0.0	2.5	2.0
ATTX98514-1R/Y	WR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	
Average L.S.D. (.05)		138.9	26.4	18.2	8.2	0.0	112.5	0.0	2.9	3.2

<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 9 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, 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				
ATTX98444S-16R/Y	TX-CO	6.9	6.9	0.0	0.0	0.0	93.1	0.0	1.085	17.7	Round	Red
A05180-3PY	WR	22.1	16.7	5.5	0.0	0.0	77.9	0.0	1.060	13.3	Round	Purple
ATTX00289-5R/Y	WR	46.9	25.4	21.5	0.0	0.0	53.1	0.0	1.055	12.4	Oblong	Red
AC05175-3P/Y	TX-CO	30.3	21.8	8.5	0.0	0.0	69.7	0.0	1.062	13.6	Round	Purple
CO05037-2R/Y	WR	3.0	3.0	0.0	0.0	0.0	97.0	0.0	1.076	16.0	Oblong	Red
COA07365-4RY	WR	7.5	7.5	0.0	0.0	0.0	92.5	0.0	ND	ND	Round	Red
CO04021-2R/Y	WR	20.5	2.3	12.8	0.0	0.0	79.5	0.0	ND	ND	Oblong	Red
BTX2103-1R/Y	WR	14.8	10.7	4.1	0.0	0.0	85.2	0.0	ND	ND	Oblong	Red
ATTX98514-1R/Y	WR	ND	ND	ND	ND	ND	ND	ND	ND	ND	Oblong	Red
Average L.S.D. (.05)		19.0	11.8	6.5	0.0	0.0	81.0	0.0	1.068	14.6		

Springlake  
Table 4c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 9 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	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>	
ATTX98444S-16R/Y	TX-CO	18.8	1.2	2.6	100	2.0	4.1	4.0	3.8	10
A05180-3PY	WR	8.7	2.1	2.5	100	2.0	4.4	4.3	4.1	0
ATTX00289-5R/Y	WR	5.6	2.7	1.6	98	2.3	3.2	3.6	3.4	11
AC05175-3P/Y	TX-CO	13.0	2.0	1.8	63	2.1	3.0	3.9	3.2	6
CO05037-2R/Y	WR	14.4	0.9	2.2	100	2.0	3.0	3.1	3.2	14
COA07365-4RY	WR	11.7	1.0	1.6	98	2.5	3.6	3.6	3.8	0
CO04021-2R/Y	WR	9.6	1.2	1.9	38	2.0	3.4	4.1	3.3	0
BTX2103-1R/Y	WR	6.3	1.5	2.0	43	2.0	3.3	4.1	3.1	1
ATTX98514-1R/Y	WR	ND	ND	2.0	7	2.0	3.0	4.5	3.5	0
Average		11.0	1.6	2.0	72	2.1	3.4	3.9	3.5	5
L.S.D. (.05)										

<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 9 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, 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
ATTX98444S-16R/Y	TX-CO	2.5	2.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A05180-3PY	WR	2.5	2.0	1.0	3.7	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX00289-5R/Y	WR	2.0	3.0	1.0	3.7	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC05175-3P/Y	TX-CO	2.5	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05037-2R/Y	WR	3.5	3.0	1.0	4.0	3.7	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	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO04021-2R/Y	WR	2.5	3.5	1.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX2103-1R/Y	WR	3.0	3.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98514-1R/Y	WR	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average		2.7	2.6	1.0	3.9	3.9	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 9 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
ATTX98444S-16R/Y	TX-CO	fl 3.5 keep, Bruce Likes, , ,	light skin, heavy set B's, yield+, , , very nice purple skin color, nice shape and flesh, light flesh, ,	3.5, 3.5, 3.5, 3.5	3.8, 3.8, 3.8, 3.8
A05180-3PY	WR	fl 2.8, rough, deep eyes, drop?, , ,		3, 3, 3, 3	3.8, 3.8, 3.8, 3.8
ATTX00289-5R/Y	WR	, , mixed seed source, drop,	, poor skin, variable skin color, drop+,	1.5, 1.5, 1.5, 1.5	2.5, 2.5, 2.5, 2.5
AC05175-3P/Y	TX-CO	, fl 3.5, nice, scurf, ,	, sticky stolons, nice skin, , small parent, very small, BOT for small potato, nice skin and flesh, ,	3.5, 3.5, 3.5, 3.5	3.7, 3.6, 3.7, 3.6
CO05037-2R/Y	WR	, fl 3, drop, ,		2, 2, 2, 2	3.7, 3.7, 3.7, 3.7
COA07365-4RY	WR	, fl 3, small potato, good skin color, Bruce Likes, ,	, , ,	4.5, 4.5, 4.5, 4.5	3.8, 3.8, 3.8, 3.8
CO04021-2R/Y	WR	fl 3.6, nice yellow flesh, light skin color, , ,	poor shape, low yield, small, , ,	3, 3, 3, 3	2.5, 2.5, 2.5, 2.5
BTX2103-1R/Y	WR	, , , fl 3, small	, poor yield, nice flesh, , light set	2.5, 2.5, 2.5, 2.5	2, 2, 2, 2
ATTX98514-1R/Y	WR	fl 3.5 , drop, , ,	no data, , ,	2.5, 2.5, 2.5, 2.5	nd, nd, nd, nd

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

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

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

- Sierra Gold, and ATX05202S-3W/Y had high general ratings and best of trial notations, while CO05037-3W/Y, TXWL-1, CO05035-1PW/Y, A05182-7Y, Yukon Gold, COTX03134-1W, NDA081451CB-1CY, and CIT #6 also had high general ratings (Table 5a and 5e).
- CO05037-3W/Y had the highest total yield, while TXWL-1 Gold had the highest marketable yield and the highest yield of over 10 oz. tubers (Table 5a).
- CO05037-3W/Y had the highest yield of less than 4 oz. tubers (Table 5a).
- CIT #6 had the highest percentage of marketable yield, while CO07131-1W/Y 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).
- A05182-7RY, NDA081451CB-1CY, ATX05202S-3W/Y, and CO07370-1W/Y were the latest in maturity, while CO05037-3W/Y, Sierra Gold, and Yukon Gold were the earliest in maturity (Table 5c).
- CO07131-1W/Y had the darkest yellow flesh color (Table 5d).

### Comments on entries:

- CO05037-3W/Y Oblong White flesh parent, smooth skin, nice shape, light flesh, BOT, FC=3
- TXWL-1 Oblong White deep eyes, specialty, rough, yield+, FC=1
- CO05035-1PW/Y Oblong White vascular, purple pinto, rough chain tubers, nice yield, faded purple color, FC=2.5
- A05182-7Y Oblong White rough, sticky stolon, variable, shape, heavy set, small potato, light flesh, DROP, FC=2.5
- Sierra Gold Oblong Russet light russet, second set, low yield, BOT, FC=3
- Yukon Gold Oblong White low yield, uniform, nice, FC=2.5
- COTX03134-1W Round White road map, poor skin, small, uniform shape, buff skin, DROP, FC=1

- NDA081451CB-1CY Round White heat sprouts, small, uniform, smooth, nice, FC=3
- CIT #6 Oblong White very early, chip, white flesh, nice shape and skin, low yield, white flesh, FC=1
- CIT #3 Oblong White red splash, ZC, poor internals, nice flesh, poor shape+, small, FC=3
- ATX05202S-3W/Y Round White smooth, send to Kelly, low yield, BOT for small potato, FC=3
- CO07370-1W/Y Round White very late, small parent, heavy set, some chain tubers, small, poor shape, DROP, FC=2
- CO07131-1W/Y Round White very small, parent, FC=3.5

<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 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 13 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, 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> Field	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
CO05037-3W/Y	WR	327.9	92.0	59.5	32.5	0.0	0.0	236.0	0.0	3.5	4.0
TXWL-1	WR	313.6	209.7	83.7	100.9	25.1	0.0	98.2	5.7	4.0	3.6
CO05035-1PW/Y	WR	298.5	127.6	75.9	51.7	0.0	0.0	171.0	0.0	3.3	3.6
A05182-7Y	WR	266.2	66.9	51.9	15.0	0.0	0.0	199.3	0.0	2.8	3.6
Sierra Gold	WR	211.9	139.0	54.6	84.4	0.0	0.0	72.9	0.0	3.5	3.8
Yukon Gold	WR	207.1	121.0	49.8	62.9	8.3	0.0	86.1	0.0	3.0	3.8
COTX03134-1W	WR	196.5	11.2	11.2	0.0	0.0	0.0	185.3	0.0	2.8	3.6
NDA081451CB-1CY	WR	171.8	14.0	14.0	0.0	0.0	0.0	157.8	0.0	4.0	3.8
CIT #6	CAN	161.1	109.9	49.4	57.9	2.6	0.0	51.2	0.0	3.0	3.7
CIT #3	CAN	138.1	39.4	30.6	8.8	0.0	0.0	98.7	0.0	2.0	2.5
ATX05202S-3W/Y	WR	103.0	10.4	7.3	3.1	0.0	0.0	92.7	0.0	3.2	3.8
CO07370-1W/Y	SW	53.2	0.9	0.9	0.0	0.0	0.0	52.4	0.0	1.0	2.0
CO07131-1W/Y	SW	7.1	0.0	0.0	0.0	0.0	0.0	7.1	0.0	3.5	2.0
Average		188.9	72.5	37.6	32.1	2.8	0.0	116.0	0.4	3.0	3.4
L.S.D. (.05)											

<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 13 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, 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				
CO05037-3W/Y	WR	28.0	18.1	9.9	0.0	0.0	72.0	0.0	1.071	15.2	Oblong	White
TXWL-1	WR	66.9	26.7	32.2	8.0	0.0	31.3	1.8	1.056	12.4	Oblong	White
CO05035-1PW/Y	WR	42.7	25.4	17.3	0.0	0.0	57.3	0.0	1.060	13.2	Oblong	White
A05182-7Y	WR	25.1	19.5	5.6	0.0	0.0	74.9	0.0	1.063	13.8	Oblong	White
Sierra Gold	WR	65.6	25.8	39.8	0.0	0.0	34.4	0.0	1.075	15.9	Oblong	Russet
Yukon Gold	WR	58.4	24.0	30.4	4.0	0.0	41.6	0.0	1.073	15.6	Oblong	White
COTX03134-1W	WR	5.7	4.3	0.0	0.0	0.0	94.3	0.0	1.079	16.5	Round	White
NDA081451CB-1CY	WR	8.1	8.1	0.0	0.0	0.0	91.9	0.0	1.076	16.1	Round	White
CIT #6	CAN	68.2	30.7	35.9	1.6	0.0	31.8	0.0	1.070	15.1	Oblong	White
CIT #3	CAN	28.5	22.2	6.4	0.0	0.0	71.5	0.0	1.067	14.5	Oblong	White
ATX05202S-3W/Y	WR	10.1	7.0	3.0	0.0	0.0	89.9	0.0	1.059	13.1	Round	White
CO07370-1W/Y	SW	1.6	1.6	0.0	0.0	0.0	98.4	0.0	ND	ND	Round	White
CO07131-1W/Y	SW	0.0	0.0	0.0	0.0	0.0	100.0	0.0	ND	ND	Round	White
Average L.S.D. (.05)		31.5	16.4	13.9	1.0	0.0	68.4	0.1	1.068	14.7		

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 13 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2015.

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>	
CO05037-3W/Y	WR	14.7	1.9	2.3	0	99	2.1	3.3	3.4	3.6	43
TXWL-1	WR	7.7	3.4	2.1	0	99	2.0	3.9	4.1	3.8	0
CO05035-1PW/Y	WR	9.4	2.7	2.0	0	98	2.0	3.9	4.3	3.9	0
A05182-7Y	WR	13.0	1.7	1.8	0	100	2.0	4.3	4.4	4.1	0
Sierra Gold	WR	5.7	3.1	1.6	0	100	2.1	3.6	3.4	3.6	20
Yukon Gold	WR	5.6	3.2	1.3	0	96	1.8	3.4	3.4	3.4	25
COTX03134-1W	WR	13.8	1.2	2.6	0	100	2.0	3.5	4.0	3.6	0
NDA081451CB-1CY	WR	12.5	1.1	2.1	0	100	2.0	4.2	4.4	4.3	0
CIT #6	CAN	4.0	3.5	1.8	0	96	2.1	3.3	3.7	3.5	26
CIT #3	CAN	5.8	2.0	1.9	0	100	1.5	3.6	3.8	3.6	3
ATX05202S-3W/Y	WR	6.8	1.3	2.0	0	100	2.0	4.3	4.4	4.2	1
CO07370-1W/Y	SW	11.3	0.5	2.4	0	85	1.9	4.4	4.5	4.2	1
CO07131-1W/Y	SW	1.8	0.9	2.1	0	100	2.0	1.0	4.0	1.0	90
Average		8.6	2.0	2.0	0	98	2.0	3.6	4.0	3.6	16
L.S.D. (.05)											

<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 13 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2015.

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
CO05037-3W/Y	WR	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	3.0	2.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05035-1PW/Y	WR	2.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A05182-7Y	WR	2.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Sierra Gold	WR	3.0	3.0	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Yukon Gold	WR	2.5	3.0	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
NDA081451CB-1CY	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
CIT #6	CAN	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CIT #3	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
ATX05202S-3W/Y	WR	3.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO07370-1W/Y	SW	2.0	1.0	4.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO07131-1W/Y	SW	3.5	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average L.S.D. (.05)		2.4	2.5	1.5	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



Springlake  
Table 5e.

Notes and general rating for all reps of 13 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
CO05037-3W/Y	WR	, , fl 4, flesh parent, BOT	, , smooth skin, nice shape, light flesh	3.5, 3.5, 3.5, 3.5	3.9, 3.9, 4, 4
TXWL-1	WR	, deep eyes, specialty, yield +, ,	, deep eyes, rough, yield+, , , rough chain tubers, , pinto., nice yield, faded purple	4, 4, 4, 4	3.5, 3.6, 3.6, 3.7
CO05035-1PW/Y	WR	, fl 2.5, vascular, purple pinto, ,	color	3.3, 3.3, 3.3, 3.3	3.6, 3.6, 3.6, 3.6
A05182-7Y	WR	, , fl 3, rough, sticky stolon, variable, shape, drop	, , heavy set, small potato, light flesh	2.8, 2.8, 2.8, 2.8	3.5, 3.7, 3.5, 3.6
Sierra Gold	WR	, , fl 2.5, light russet,	, , second set, low yield, BOT,	3.5, 3.5, 3.5, 3.5	3.8, 3.8, 3.8, 3.8
Yukon Gold	WR	, , fl 2.5	, , low yield, uniform, nice	3, 3, 3, 3	3.8, 3.8, 3.8, 3.8
COTX03134-1W	WR	, white flesh, road map, drop, ,	, poor skin, small, uniform shape, buff skin,	2.8, 2.8, 2.8, 2.8	3.7, 3.5, 3.5, 3.7
NDA081451CB-1CY	WR	, , fl 3, heat sprouts ,	, , small, uniform, smooth, nice,	4, 4, 4, 4	3.8, 3.8, 3.8, 3.8
CIT #6	CAN	, , , very early, chip, white flesh	, , , nice shape and skin, low yield, white flesh	3, 3, 3, 3	3.6, 3.7, 3.7, 3.7
CIT #3	CAN	, , , red splash, ZC, poor internals	, , , nice flesh, poor shape+, small	2, 2, 2, 2	2.5, 2.5, 2.5, 2.5
ATX05202S-3W/Y	WR	, , , fl 3, smooth, send to Kelly	, , , low yield, BOT for small potato	3.2, 3.2, 3.2, 3.2	3.8, 3.8, 3.8, 3.8
CO07370-1W/Y	SW	, , , fl 3, very late, small parent, heavy set, drop	, , , some chain tubers, small, poor shape, drop	1, 1, 1, 1	2, 2, 2, 2
CO07131-1W/Y	SW	, , ,	, , very small, parent,	3.5, 3.5, 3.5, 3.5	2, 2, 2, 2

## Outstanding Texas Advanced Chip Selections, 2015

**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 will (COTX10079-11W, TX12484-2W ZC, TX12484-3W ZC, TX12484-1W ZC, NDTX102514ABC-5W, AORTX11476-2W, NDTX071109C-1W, NDTX081648CB-1W, WTX10666-8W, AORTX09037-1W, AORTX09037-5W, NDTX102852CB-4Ru, NDTX113030C-3W, NDTX102852CB-3Ru, AORTX09033-11W, TX12483-5W, NDTX113029C-2W, NDTX113467CB-1W, NDTX102796CbS-2W, TX12483-8W, TX12486-1W, AORTX09033-4W, AORTX09033-14W, NDTX102702C-1W, NDTX102640Cb-1W, TX12483-4W, ATTX11476-11W, AORTX10247-1W/Y, AORTX09032-3W, NDTX113037C-3W, AORTX09037-4W, AORTX09144-2W, TX12483-6W, ATTX11484-3W, TX12484-4W ZC, WTX10646-2W, NDTX059828-2W, TX12479-1W, TX12479-16W, NDTX113030C-10W, AORTX09037-3W, NDTX060700C-1W, and TX12479-13W, ).be re-evaluated in the 2016 season. The following clones will be entered in the National Chip trial (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).

### Texas Advanced Chip Trial, Springlake

This chip trial consisted of thirty-five entries, including the check variety Atlantic.

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

- COTX10076-1W was the outstanding entry based on general rating and best of trial designations for chip quality. AORTX09033-9W, TX09396-1W, NDTX102852CB-4Ru, NDTX081644CAB-2W, and Waneta had high general ratings and best of trial designations for appearance. NDTX113218C-3W and NDTX113218C-2W had best of trial designations for chip quality (Tables 6a, 6e, and 6f).
- AORTX09033-9W had the highest total yield. AORTX09033-9W and NDTX102852CB-4Ru had the highest marketable yield. NDTX102640Cb-1W had the highest yield of less than 4 oz. tubers (Table 6a).
- ATTX11476-2W had the highest yield of culls/No. 2 tubers (Table 6a).
- COTX10079-11W had the highest percentage of marketable yield (Table 6b).
- NDTX081644CAB-2W had the highest percentage of less than 4 oz. tubers (Table 6b).
- ATTX11476-2W had the highest percentage of culls/No. 2 tubers (Table 6b).

- NDTX060700C-1W had the highest specific gravity (Table 6b).
- TX09396-1W, COTX10076-1W, and NDTX113059-1W were the latest in maturity, while NDTX081644CAB-2W and NDTX113218C-2W were the earliest in maturity (Table 6c).
- NDTX113218C-3W and COTX10076-1W received the 100% percent good chips (Table 6f).

Comments on entries:

- AORTX09033-9W Round White keep, nice uniform size, high set, nice shape, small, yellow flesh, BOT-, CR=2
- NDTX102640Cb-1W Round White keep, nice shape, nice skin, smooth, nice size, CR=1
- NDTX113467CB-1W Oblong White keep, nice skin and shape, nice flesh, some rough, CR=1
- TX09403-14W Round White drop, nice, smooth, nice shape, nice size, CR=1
- NDTX081648CB-13W Round White small, some culls, too oblong, very nice, keep CR=1
- APTX11476-2W Round White heavy set, variable nice size, nice shape, heat sprouts, DROP CR=1
- NDTX113277-1W Round White russet skin, nice shape, light set, keep CR=1
- TX09396-1W Round White uniform, nice size, nice shape, small, keep, BOT, CR=1
- NDTX102643CAB-1W Oblong White nice size, too small, smooth skin, keep CR=1
- NDTX113030C-5W Round White nice flesh, keep, CR=1
- NDTX102462C-6W Round White too oblong, small, nice size, nice shape and skin, keep CR=1
- COTX10079-11W Round White very low yield, too small, oblong, nice size, buff-russet skin, keep CR=2
- NDTX102702C-1W Oblong White nice size and shape, buff, nice, keep CR=1
- WTX10640-2W Round White heavy set, low yield, nice shape, too small, very white flesh, keep CR=1
- NDTX091908AB-2W Round White chain tubers, rough, small, smooth, nice shape and skin, ZC, culls, poor internals, internal brownspot, keep, DROP++ CR=1
- NDTX113218C-3W Round White nice, nice flesh, nice skin, oblong, rough, keep CR=1
- WTX10640-3W Round White nice skin, low yield, keep CR=1
- NDTX102852CB-4Ru Round White nice shape, uniform, BOT, rough, vascular discoloration, small, keep CR=1
- NDTX113030C-6W Oblong White nice, nice shape and skin, ZC, small, BOT CR=1

- NDTX102514ABC-5W Round White small, too small, very small, some vascular discoloration, smooth, DROP CR=1
- NDTX081644CAB-2W Round White high yield, variable size, nice size and flesh, some rough, some internal brownspot, some culls, smooth, keep, BOT-CR=2
- AORTX11455-4W Round White too small, heavy set, small, nice shape, DROP CR=2
- NDTX102852CB-3Ru Oblong White nice size and skin, light yellow flesh, buff skin, DROP CR=1
- COTX10076-1W Round White nice, too small, B's, keep CR=1
- NDTX113030C-3W Round White nice size and shape, keep CR=1
- NDTX071109C-1W Oblong White low yield, drop?, too small, nice shape, nice skin, CR=1
- COTX10076-7W Round White nice shape and yield, buff-russet skin, sticky stolon, BOT CR=1
- Waneta Round White deep eyes, ZC, very white flesh, poor internals, very nice, light set, keep, BOT+ CR=2
- ATTX11476-12W Round White nice size and size, oblong, nice skin, keep? CR=1
- NDTX102796CbS-2W Round White heavy set, move to small trial, light set, small, low yield, CR=1
- TX12479-1W Round White light set, small, DROP CR=1
- NDTX113218C-2W Round White heavy set, heat sprouts, culls++, too small, nice skin, DROP CR=1
- COTX10076-11W Round White too small, keep CR=1
- NDTX102461AB-4W Round White smooth, nice shape, light set, DROP CR=1
- NDTX060700C-1W Round White deep nose, poor shape, smooth, nice shape, keep CR=3
- ATTX11476-3W Round White light set, large size, ZC, DROP CR= 1
- ATX11461-3W Round White small, nice size, DROP CR= 1
- NDTX113059-1W Round White nice, light set, nice shape and skin, very small, rough, culls+, BOT CR= 1
- COTX10031-1W Round White nice shape, nice size, keep? DROP? CR= 1
- NDTX113266C-1W Oblong White nice skin, culls+, keep CR=1
- WTX10646-2W Oblong White heavy set, good yield, smooth, nice shape, keep CR=1

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

Summary:

AORTX09033-9W was the outstanding entry based on all factors. COTX10076-1W, TX09396-1W, NDTX102852CB-4Ru, NDTX081644CAB-2W, and Waneta 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 41 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2014.

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					
AORTX09033-9W	TXCH	252.0	118.2	81.9	33.9	2.4	0.0	133.8	0.0	3.8	3.8
NDTX102640Cb-1W	NATCH15	233.0	41.8	35.1	6.7	0.0	0.0	189.9	1.2	3.7	3.7
NDTX113467CB-1W	TXCH	226.4	63.3	50.5	12.8	0.0	0.0	149.7	13.5	4.0	3.7
TX09403-14W	NATCH15	223.8	48.4	38.5	9.9	0.0	0.0	175.4	0.0	2.5	3.7
NDTX081648CB-13W	TXCH	198.1	66.2	47.5	18.7	0.0	0.0	123.1	8.8	3.0	3.4
ATTX11476-2W	TXCH	193.6	70.2	53.6	16.6	0.0	0.0	70.5	52.9	3.0	3.7
NDTX113277-1W	NATCH15	193.3	73.3	65.3	8.0	0.0	0.0	120.0	0.0	3.0	3.4
TX09396-1W	TXCH	191.6	101.6	70.2	31.5	0.0	0.0	89.9	0.0	3.8	3.7
NDTX102643CAB-1W	TXCH	184.5	46.5	40.1	6.4	0.0	0.0	135.1	2.9	3.0	3.5
NDTX113030C-5W	TXCH	180.5	48.4	26.6	21.8	0.0	0.0	114.8	17.3	3.0	3.5
NDTX102462C-6W	NATCH15	179.6	57.4	42.2	15.2	0.0	0.0	121.0	1.2	3.8	3.4
COTX10079-11W	TXCH	177.4	115.1	86.6	25.8	2.8	0.0	62.3	0.0	3.3	3.5
NDTX102702C-1W	TXCH	175.7	93.9	63.3	30.6	0.0	0.0	81.8	0.0	3.5	3.6
WTX10640-2W	NATCH15	173.3	16.6	16.1	0.5	0.0	0.0	132.3	24.4	4.0	2.8
NDTX091908AB-2W	TXCH	173.2	46.8	37.2	9.7	0.0	0.0	122.9	3.5	3.8	3.2
NDTX113218C-3W	NATCH15	164.3	65.9	47.2	15.0	3.6	0.0	97.3	1.2	3.5	3.5
WTX10640-3W	TXCH	156.6	4.1	3.3	0.9	0.0	0.0	129.8	22.6	3.3	3.4
NDTX102852CB-4Ru	TXCH	156.5	118.2	66.9	38.2	13.1	0.0	38.3	0.0	4.5	3.5
NDTX113030C-6W	TXCH	155.9	56.7	33.2	23.5	0.0	0.0	99.2	0.0	4.0	3.8
NDTX102514ABC-5W	NATCH15	155.5	32.7	27.8	4.8	0.0	0.0	117.5	5.4	2.8	3.4
NDTX081644CAB-2W	NATCH15	154.0	12.4	9.5	2.9	0.0	0.0	141.5	0.0	4.0	3.5
AORTX11455-4W	TXCH	150.4	40.4	40.4	0.0	0.0	0.0	93.7	16.2	2.7	3.6
NDTX102852CB-3Ru	TXCH	150.4	83.3	55.0	24.9	3.5	0.0	67.1	0.0	2.8	3.6
COTX10076-1W	NATCH15	150.0	55.3	36.6	18.7	0.0	0.0	94.7	0.0	3.8	3.7
NDTX113030C-3W	TXCH	150.0	58.1	43.6	11.8	2.8	0.0	92.0	0.0	3.3	3.8
NDTX071109C-1W	NATCH15	148.5	79.9	57.2	22.6	0.0	0.0	68.7	0.0	2.7	3.6
COTX10076-7W	NATCH15	146.3	11.9	11.9	0.0	0.0	0.0	134.3	0.0	3.3	3.8
Waneta	TXCH	145.5	72.3	48.6	23.7	0.0	0.0	72.4	0.9	4.0	3.6
ATTX11476-12W	TXCH	142.8	69.8	41.1	28.7	0.0	0.0	72.6	0.3	3.3	3.7
NDTX102796CbS-2W	TXCH	142.7	61.5	41.0	20.6	0.0	0.0	81.1	0.0	4.0	2.5
TX12479-1W	TXCH	141.7	83.0	45.6	37.3	0.0	0.0	58.8	0.0	2.8	3.0
NDTX113218C-2W	NATCH15	129.6	46.0	33.4	12.6	0.0	0.0	83.7	0.0	3.5	3.3
COTX10076-11W	TXCH	127.2	45.6	37.7	8.0	0.0	0.0	81.6	0.0	4.0	3.0
NDTX102461AB-4W	NATCH15	125.1	32.0	25.6	6.4	0.0	0.0	89.7	3.5	1.0	3.3
NDTX060700C-1W	TXCH	117.8	18.2	13.1	5.0	0.0	0.0	99.7	0.0	3.5	3.7
ATTX11476-3W	TXCH	106.5	41.5	27.0	14.5	0.0	0.0	65.0	0.0	2.8	3.6
ATX11461-3W	TXCH	104.8	12.4	12.4	0.0	0.0	0.0	78.8	13.5	2.5	3.6
NDTX113059-1W	TXCH	91.6	30.1	28.9	1.2	0.0	0.0	61.5	0.0	4.5	3.5
COTX10031-1W	TXCH	90.9	32.8	30.1	2.8	0.0	0.0	55.0	3.1	3.0	3.7
NDTX113266C-1W	NATCH15	73.0	19.7	17.3	2.4	0.0	0.0	50.3	2.9	3.0	3.4
WTX10646-2W	NATCH15	32.5	12.4	12.4	0.0	0.0	0.0	20.1	0.0	3.8	3.7
Average		180.0	61.4	44.7	15.5	1.1	0.0	111.7	6.8	3.4	3.5
L.S.D. (.05)											

<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 41 entries in the Texas Advanced Chip Selection  
Trial grown near Springlake, Texas-2014.

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				
AORTX09033-9W	TXCH	46.9	32.5	13.4	1.0	0.0	53.1	0.0	1.071	15.2	Round	White
NDTX102640Cb-1W	NATCH15	18.0	15.1	2.9	0.0	0.0	81.5	0.5	1.066	14.3	Round	White
NDTX113467CB-1W	TXCH	27.9	22.3	5.6	0.0	0.0	66.1	6.0	1.079	16.6	Oblong	White
TX09403-14W	NATCH15	21.6	17.2	4.4	0.0	0.0	78.4	0.0	1.074	15.8	Round	White
NDTX081648CB-13W	TXCH	33.4	24.0	9.4	0.0	0.0	62.1	4.5	1.069	14.7	Round	White
ATTX11476-2W	TXCH	36.3	27.7	8.6	0.0	0.0	36.4	27.3	1.056	12.6	Round	White
NDTX113277-1W	NATCH15	37.9	30.1	4.1	0.0	0.0	62.1	0.0	1.069	14.8	Round	White
TX09396-1W	TXCH	53.1	36.6	16.4	0.0	0.0	46.9	0.0	1.070	14.9	Round	White
NDTX102643CAB-1W	TXCH	25.2	21.7	3.5	0.0	0.0	73.2	1.6	1.062	13.6	Oblong	White
NDTX113030C-5W	TXCH	26.8	14.8	12.1	0.0	0.0	63.6	9.6	1.059	13.1	Round	White
NDTX102462C-6W	NATCH15	32.0	23.5	8.5	0.0	0.0	67.4	0.7	1.067	14.5	Round	White
COTX10079-11W	TXCH	64.9	48.8	14.5	1.6	0.0	35.1	0.0	1.067	14.4	Round	White
NDTX102702C-1W	TXCH	53.4	36.0	17.4	0.0	0.0	46.6	0.0	1.071	15.1	Oblong	White
WTX10640-2W	NATCH15	9.6	9.3	0.3	0.0	0.0	76.4	14.1	1.061	13.4	Round	White
NDTX091908AB-2W	TXCH	27.0	21.5	5.6	0.0	0.0	71.0	2.0	1.070	15.0	Round	White
NDTX113218C-3W	NATCH15	40.1	28.7	9.2	2.2	0.0	59.2	0.7	1.070	15.0	Round	White
WTX10640-3W	TXCH	2.6	2.1	0.6	0.0	0.0	82.9	14.5	1.061	13.5	Round	White
NDTX102852CB-4Ru	TXCH	75.6	42.7	24.4	8.4	0.0	24.4	0.0	1.059	13.1	Round	White
NDTX113030C-6W	TXCH	36.4	21.3	15.1	0.0	0.0	63.6	0.0	1.079	16.6	Oblong	White
NDTX102514ABC-5W	NATCH15	21.0	17.9	3.1	0.0	0.0	75.5	3.4	1.072	15.3	Round	White
NDTX081644CAB-2W	NATCH15	8.1	6.2	1.9	0.0	0.0	91.9	0.0	1.068	14.6	Round	White
AORTX11455-4W	TXCH	26.9	26.9	0.0	0.0	0.0	62.3	10.8	1.053	11.9	Round	White
NDTX102852CB-3Ru	TXCH	55.4	36.6	16.6	2.3	0.0	44.6	0.0	1.056	12.6	Oblong	White
COTX10076-1W	NATCH15	36.9	24.4	12.4	0.0	0.0	63.1	0.0	1.065	14.0	Round	White
NDTX113030C-3W	TXCH	38.7	29.0	7.8	1.8	0.0	61.3	0.0	1.076	16.0	Oblong	White
NDTX071109C-1W	NATCH15	53.8	38.5	15.2	0.0	0.0	46.2	0.0	1.066	14.2	Round	White
COTX10076-7W	NATCH15	8.2	8.2	0.0	0.0	0.0	91.8	0.0	1.066	14.4	Round	White
Waneta	TXCH	49.7	33.4	16.3	0.0	0.0	49.7	0.6	1.070	14.9	Round	White
ATTX11476-12W	TXCH	48.9	28.8	20.1	0.0	0.0	50.8	0.2	1.067	14.4	Round	White
NDTX102796CbS-2W	TXCH	43.1	28.7	14.4	0.0	0.0	56.9	0.0	1.056	12.5	Round	White
TX12479-1W	TXCH	58.5	32.2	26.3	0.0	0.0	41.5	0.0	1.066	14.3	Round	White
NDTX113218C-2W	NATCH15	35.5	25.7	9.7	0.0	0.0	64.5	0.0	1.067	14.4	Round	White
COTX10076-11W	TXCH	35.9	29.6	6.3	0.0	0.0	64.1	0.0	1.061	13.5	Round	White
NDTX102461AB-4W	NATCH15	25.6	20.5	5.1	0.0	0.0	71.7	2.8	1.071	15.2	Round	White
NDTX060700C-1W	TXCH	15.4	11.1	4.3	0.0	0.0	84.6	0.0	1.083	17.4	Oblong	White
ATTX11476-3W	TXCH	39.0	25.3	13.6	0.0	0.0	61.0	0.0	1.057	12.7	Round	White
ATX11461-3W	TXCH	11.9	11.9	0.0	0.0	0.0	75.2	12.9	1.069	14.8	Round	White
NDTX113059-1W	TXCH	32.8	31.5	1.3	0.0	0.0	67.2	0.0	1.064	14.0	Round	White
COTX10031-1W	TXCH	36.1	33.1	3.0	0.0	0.0	60.5	3.4	1.067	14.5	Round	White
NDTX113266C-1W	NATCH15	27.0	23.7	3.3	0.0	0.0	69.0	4.0	1.074	15.7	Oblong	White
WTX10646-2W	NATCH15	38.3	38.3	0.0	0.0	0.0	61.7	0.0	1.067	14.5	Oblong	White
Average		34.2	24.7	8.7	0.7	0.0	62.0	3.8	1.067	14.4		
L.S.D. (.05)												

Springlake  
Table 6c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 41 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	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>	
AORTX09033-9W	TXCH	8.1	2.6	2.4	100	2.0	3.8	3.9	3.8	5
NDTX102640Cb-1W	NATCH15	10.2	1.9	2.5	100	2.0	3.8	3.5	3.7	17
NDTX113467CB-1W	TXCH	9.0	2.2	2.4	96	2.0	3.7	4.3	3.8	5
TX09403-14W	NATCH15	9.6	1.9	2.3	100	2.0	3.9	3.7	3.8	10
NDTX081648CB-13W	TXCH	7.7	2.2	2.5	96	2.0	3.8	3.9	3.7	7
ATTX11476-2W	TXCH	6.3	2.6	1.7	96	2.0	3.8	3.8	3.8	10
NDTX113277-1W	NATCH15	9.0	2.5	1.7	76	2.0	3.7	4.1	3.7	3
TX09396-1W	TXCH	5.7	2.9	1.2	97	2.0	4.2	4.5	4.2	0
NDTX102643CAB-1W	TXCH	7.7	2.0	1.3	96	2.0	3.7	3.7	3.7	3
NDTX113030C-5W	TXCH	6.3	2.4	2.0	100	2.0	4.3	4.5	4.3	0
NDTX102462C-6W	NATCH15	9.4	2.0	2.1	78	2.0	3.6	3.8	3.7	0
COTX10079-11W	TXCH	4.5	3.5	1.2	94	2.0	3.7	3.7	3.7	3
NDTX102702C-1W	TXCH	6.7	2.7	1.6	83	2.3	3.5	3.7	3.6	7
WTX10640-2W	NATCH15	9.8	1.5	2.3	100	2.0	4.5	4.3	4.6	0
NDTX091908AB-2W	TXCH	6.9	2.1	2.7	100	2.0	3.3	3.1	3.4	30
NDTX113218C-3W	NATCH15	5.8	2.3	2.1	100	2.0	3.2	3.2	3.3	25
WTX10640-3W	TXCH	10.7	1.4	2.1	90	2.0	4.3	4.2	4.2	0
NDTX102852CB-4Ru	TXCH	3.6	4.0	1.4	94	2.0	3.7	3.8	3.6	13
NDTX113030C-6W	TXCH	9.3	2.6	2.1	59	2.0	3.8	4.1	3.8	0
NDTX102514ABC-5W	NATCH15	8.0	1.8	2.0	92	2.0	3.4	3.5	3.5	7
NDTX081644CAB-2W	NATCH15	8.9	1.4	3.4	100	2.0	3.3	3.2	3.4	25
AORTX11455-4W	TXCH	6.8	1.9	1.6	98	2.0	4.0	4.3	4.0	0
NDTX102852CB-3Ru	TXCH	4.0	3.3	1.1	96	2.0	3.6	3.4	3.5	38
COTX10076-1W	NATCH15	6.2	2.1	1.6	93	2.0	4.0	4.5	3.8	0
NDTX113030C-3W	TXCH	10.3	2.2	1.5	59	2.0	3.7	4.1	3.6	0
NDTX071109C-1W	NATCH15	4.4	3.0	1.7	96	2.0	3.2	3.4	3.2	8
COTX10076-7W	NATCH15	8.2	1.5	1.7	100	2.0	3.6	3.6	3.7	8
Waneta	TXCH	6.2	2.5	1.3	85	2.0	3.7	3.7	3.6	2
ATTX11476-12W	TXCH	4.4	2.9	1.6	100	2.0	3.5	3.5	3.6	18
NDTX102796CbS-2W	TXCH	6.3	2.3	1.8	85	2.0	3.9	4.3	3.8	2
TX12479-1W	TXCH	3.7	3.2	1.3	100	2.0	3.8	4.0	3.7	0
NDTX113218C-2W	NATCH15	5.3	2.0	2.3	100	2.3	3.2	3.3	3.5	35
COTX10076-11W	TXCH	4.9	2.4	1.5	89	2.0	3.6	4.0	3.7	5
NDTX102461AB-4W	NATCH15	9.8	2.0	1.5	56	2.0	3.0	3.5	3.3	8
NDTX060700C-1W	TXCH	6.9	1.5	1.8	96	2.0	3.1	3.3	3.2	15
ATTX11476-3W	TXCH	3.7	2.9	1.7	82	2.0	3.8	4.0	3.8	0
ATX11461-3W	TXCH	5.9	1.7	1.5	86	2.0	4.3	4.3	4.1	0
NDTX113059-1W	TXCH	10.4	2.2	2.0	35	2.0	2.9	4.5	3.2	0
COTX10031-1W	TXCH	8.3	1.6	1.2	68	2.0	2.3	3.7	2.6	10
NDTX113266C-1W	NATCH15	15.1	2.0	1.8	22	2.0	2.7	4.2	2.8	5
WTX10646-2W	NATCH15	3.4	2.8	1.8	29	2.0	3.6	3.8	3.6	0
Average		7.6	2.3	1.9	92	2.0	3.8	3.9	3.8	8
L.S.D. (.05)										

<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 41 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2014.

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
AORTX09033-9W	TXCH	2.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102640Cb-1W	NATCH15	2.5	2.0	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	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09403-14W	NATCH15	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081648CB-13W	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
ATTX11476-2W	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
NDTX113277-1W	NATCH15	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	TXCH	2.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102643CAB-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
NDTX113030C-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
NDTX102462C-6W	NATCH15	1.0	2.0	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	2.0	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
WTX10640-2W	NATCH15	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-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
NDTX113218C-3W	NATCH15	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
WTX10640-3W	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
NDTX102852CB-4Ru	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-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
NDTX102514ABC-5W	NATCH15	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081644CAB-2W	NATCH15	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11455-4W	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
NDTX102852CB-3Ru	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
COTX10076-1W	NATCH15	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	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	NATCH15	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10076-7W	NATCH15	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Waneta	TXCH	1.0	2.0	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX11476-12W	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
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
TX12479-1W	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
NDTX113218C-2W	NATCH15	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10076-11W	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
NDTX102461AB-4W	NATCH15	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
ATTX11476-3W	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
ATX11461-3W	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
NDTX113059-1W	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
COTX10031-1W	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
NDTX113266C-1W	NATCH15	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	NATCH15	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	2.1	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 41 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2014.  
Table 6e.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
AORTX09033-9W	TXCH	...keep.	, nice uniform size, high set, BOT-, nice shape, small, yellow flesh 2.5.	3.8, 3.8, 3.8, 3.8	3.8, 3.8, 3.8, 3.8
NDTX102640Cb-1W	NATCH15	...keep.	nice shape, , nice skin, smooth, nice size yellow flesh	3.7, 3.7, 3.7, 3.7	3.5, 3.7, 3.7, 3.8
NDTX113467CB-1W	TXCH	...keep.	nice skin and shape, , nice flesh, some rough,	4, 4, 4, 4	3.8, 3.8, 3.6, 3.6
TX09403-14W	NATCH15	drop,...	nice, smooth, nice shape, , nice size	2.5, 2.5, 2.5, 2.5	3.8, 3.5, 3.7, 3.7
NDTX081648CB-13W	TXCH	keep,...	small, some culls, too oblong, , very nice	3, 3, 3, 3	3.5, 3, 3.4, 3.8
ATTX11476-2W	TXCH	...heavy set, variable size, drop.	nice shape, , heat sprouts, nice size,	3, 3, 3, 3	3.7, 3.7, 3.6, 3.6
NDTX113277-1W	NATCH15	...keep	russet skin, nice shape, , light set	3, 3, 3, 3	3.8, 3.4, 3, 3.5
TX09396-1W	TXCH	...keep	uniform, BOT, nice size, , nice shape, small, yellow flesh 2.5	3.8, 3.8, 3.8, 3.8	4, 3.6, 3.7, 3.5
NDTX102643CAB-1W	TXCH	...keep	nice size, , too small, smooth skin	3, 3, 3, 3	3.8, 3.5, 3, 3.6
NDTX113030C-5W	TXCH	...keep.	nice flesh, ,	3, 3, 3, 3	3.5, 3.5, 3.5, 3.5
NDTX102462C-6W	NATCH15	keep,...	too oblong, small, , nice size, nice shape and skin	3.8, 3.8, 3.8, 3.8	3, 3.4, 3.8, 3.5
COTX10079-11W	TXCH	...keep, .	very low yield, too small, , oblong, nice size, buff-russet skin	3.3, 3.3, 3.3, 3.3	3.5, 3.3, 3.5, 3.8
NDTX102702C-1W	TXCH	...keep.	, , nice size and shape, buff, oblong, nice	3.5, 3.5, 3.5, 3.5	3.5, 3.6, 3.6, 3.8
WTX10640-2W	NATCH15	...heavy set, keep	low yield, nice shape, , too small, very white flesh	4, 4, 4, 4	2, 3.5, 2.8, 3
NDTX091908AB-2W	TXCH	...keep, .	chain tubers, rough, small, drop+, smooth, nice shape and skin, ZC, , culls, chain tubers, poor internals,	3.8, 3.8, 3.8, 3.8	3, 3.6, 3.2, 3
NDTX113218C-3W	NATCH15	...nice, keep, .	nice flesh, nice skin, , oblong, rough	3.5, 3.5, 3.5, 3.5	3.5, 3.6, 3.5, 3.3
WTX10640-3W	TXCH	...keep	, nice skin, , low yield	3.3, 3.3, 3.3, 3.3	3.5, 3.7, 3.4, 3
NDTX102852CB-4Ru	TXCH	...keep.	nice shape, uniform, BOT, , rough, vascular discoloration, small	4.5, 4.5, 4.5, 4.5	4, 3.5, 3.3, 3.3
NDTX113030C-6W	TXCH	...nice, BOT.	nice shape, and skin, ZC, , small,	4, 4, 4, 4	3.8, 3.8, 3.8, 3.8
NDTX102514ABC-5W	NATCH15	...small, drop	too small, , very small, some vascular discoloration, smooth, small	2.8, 2.8, 2.8, 2.8	3.5, 3.4, 3, 3.7
NDTX081644CAB-2W	NATCH15	...high yield, variable size, keep	nice size and flesh, BOT+, some rough, some internal brownspot, , some culls, smooth	4, 4, 4, 4	3.8, 3.3, 3.5, 3.5
AORTX11455-4W	TXCH	too small, heavy set, drop,...	small, , nice shape.	2.7, 2.7, 2.7, 2.7	3.5, 3.5, 3.7, 3.7
NDTX102852CB-3Ru	TXCH	...drop.	nice size and skin, light yellow flesh, , buff skin,	2.8, 2.8, 2.8, 2.8	3.7, 3.7, 3.5, 3.5
COTX10076-1W	NATCH15	...nice, keep, ,	too small, B's, ,	3.8, 3.8, 3.8, 3.8	3.7, 3.7, 3.7, 3.7
NDTX113030C-3W	TXCH	keep,...	, , nice size and shape,	3.3, 3.3, 3.3, 3.3	3.8, 3.8, 3.8, 3.8
NDTX071109C-1W	NATCH15	...low yield, drop?, ,	too small, nice shape, nice skin, ,	2.7, 2.7, 2.7, 2.7	3.3, 3.7, 3.6, 3.7
COTX10076-7W	NATCH15	...	nice shape and yield, buff-russet skin, BOT, sticky stolon, .	3.3, 3.3, 3.3, 3.3	4, 3.5, 3.8, 4
Waneta	TXCH	keep, BOT, ,	deep eyes, ZC, very white flesh, poor internals, very nice BOT, , light set	4, 4, 4, 4	3.3, 4.1, 3.6, 3.5
ATTX11476-12W	TXCH	keep?, ,	nice size and size, , oblong, nice skin,	3.3, 3.3, 3.3, 3.3	3.8, 3.8, 3.5, 3.5
NDTX102796CbS-2W	TXCH	heavy set, move to small trial, ,	light set, small, , low yield	4, 4, 4, 4	3, 2.5, 2.5, 2
TX12479-1W	TXCH	drop, ,	light set, small, ,	2.8, 2.8, 2.8, 2.8	3, 3, 3, 3
NDTX113218C-2W	NATCH15	...heavy set	heat sprouts, culls+, drop, , too small, nice skin	3.5, 3.5, 3.5, 3.5	3, 3.3, 3.3, 3.5
COTX10076-11W	TXCH	keep,...	, , too small,	4, 4, 4, 4	3, 3, 3, 3
NDTX102461AB-4W	NATCH15	drop,...	smooth, nice shape, , light set,	1, 1, 1, 1	3.6, 3.3, 3, 3.4
NDTX060700C-1W	TXCH	...keep, .	deep nose, poor shape, nice shape, , smooth, nice shape	3.5, 3.5, 3.5, 3.5	3.5, 3.7, 3.7, 3.8
ATTX11476-3W	TXCH	light set, large size, drop, ,	ZC, ,	2.8, 2.8, 2.8, 2.8	3.6, 3.6, 3.6, 3.6
ATX11461-3W	TXCH	...small, drop.	small, , nice size,	2.5, 2.5, 2.5, 2.5	3.5, 3.5, 3.6, 3.6
NDTX113059-1W	TXCH	...nice, BOT, ,	light set, , nice shape and skin, very small, rough, culls+	4.5, 4.5, 4.5, 4.5	3.3, 3.5, 3.8, 3.5
COTX10031-1W	TXCH	keep?, drop?, ,	nice shape, , nice size,	3, 3, 3, 3	3.7, 3.7, 3.6, 3.6
NDTX113266C-1W	NATCH15	keep,...	oblong, nice skin, , culls+	3, 3, 3, 3	3.5, 3.4, 3.4, 3.3
WTX10646-2W	NATCH15	heavy set, good yield, keep, ,	smooth, nice shape, ,	3.8, 3.8, 3.8, 3.8	3.7, 3.7, 3.7, 3.7

Springlake  
Table 6f. Specific gravity, percent solids, chip color rating, good chip bad chip ratio, notes, and percentage of Zebra Defect at chipping of 41 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Gravity	% Solids	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect
AORTX09033-9W	TXCH	1.071	15.2	2	12/8	Yellow	5%
NDTX102640Cb-1W	NATCH15	1.066	14.3	1	25/4		0%
NDTX113467CB-1W	TXCH	1.079	16.6	1	11/20		0%
TX09403-14W	NATCH15	1.074	15.8	1	22/7	2scab	7%
NDTX081648CB-13W	TXCH	1.069	14.7	1	15/5		5%
ATTX11476-2W	TXCH	1.056	12.6	1	11/8		0%
NDTX113277-1W	NATCH15	1.069	14.8	1	25/5	1scab	0%
TX09396-1W	TXCH	1.070	14.9	1	12/17	7scab	0%
NDTX102643CAB-1W	TXCH	1.062	13.6	1	26/3	3scab, Nice	0%
NDTX113030C-5W	TXCH	1.059	13.1	1	9/11	7mb/bc	0%
NDTX102462C-6W	NATCH15	1.067	14.5	1	24/5		0%
COTX10079-11W	TXCH	1.067	14.4	2	24/5	1vas/IBS, 1stem1	0%
NDTX102702C-1W	TXCH	1.071	15.1	1	24/5		0%
WTX10640-2W	NATCH15	1.061	13.4	1	3/27		0%
NDTX091908AB-2W	TXCH	1.070	15.0	1	24/4	Nice	0%
NDTX113218C-3W	NATCH15	1.070	15.0	1	27/0	BOT	0%
WTX10640-3W	TXCH	1.061	13.5	1	9/25		0%
NDTX102852CB-4Ru	TXCH	1.059	13.1	1	28/2		0%
NDTX113030C-6W	TXCH	1.079	16.6	1	13/7		0%
NDTX102514ABC-5W	NATCH15	1.072	15.3	1	28/8		0%
NDTX081644CAB-2W	NATCH15	1.068	14.6	2	25/8		0%
AORTX11455-4W	TXCH	1.053	11.9	2	0/20	3dark	5%
NDTX102852CB-3Ru	TXCH	1.056	12.6	1	15/4	3scab	0%
COTX10076-1W	NATCH15	1.065	14.0	1	10/0		0%
NDTX113030C-3W	TXCH	1.076	16.0	1	16/4		0%
NDTX071109C-1W	NATCH15	1.066	14.2	1	26/7	Nice	0%
COTX10076-7W	NATCH15	1.066	14.4	1	27/2	BOT	0%
Waneta	TXCH	1.070	14.9	2	25/3	nice, yellow	4%
ATTX11476-12W	TXCH	1.067	14.4	1	13/7		0%
NDTX102796Cbs-2W	TXCH	1.056	12.5	1	3/29	3scab	3%
TX12479-1W	TXCH	1.066	14.3	1	8/1		0%
NDTX113218C-2W	TXCH	1.067	14.4	1	29/1	1scab, BOT	0%
COTX10076-11W	TXCH	1.061	13.5	1	13/7	2IBS, Ugly drop	0%
NDTX102461AB-4W	TXCH	1.071	15.2	1	15/14		3%
NDTX060700C-1W	TXCH	1.083	17.4	3	19/11		0%
ATTX11476-3W	TXCH	1.057	12.7	1	2/8		0%
ATX11461-3W	TXCH	1.069	14.8	1	8/13	2gh, 2MB	0%
NDTX113059-1W	TXCH	1.064	14.0	1	16/14		0%
COTX10031-1W	TXCH	1.067	14.5	1	3/16	4mb/bc	0%
NDTX113266C-1W	NATCH15	1.074	15.7	1	15/16		0%
WTX10646-2W	NATCH15	1.067	14.5	1	6/4	2scab	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, 2015

**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, (ATX11952-1Ru, Russet Norkotah, COTX10141-11Ru, COTX10010-1Ru, COTX08258-6Ru, TXA549-1Ru, COTX09052-1Ru, COTX10080-2Ru, Stampede Russet, AORTX10127-1Ru, ATX84378-6Ru, COTX10141-13Ru, and COTX10141-12Ru).will be re-evaluated in the 2016 season.

### Texas Advanced Russet Trial, Springlake

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

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

- ATX84378-6Ru, Stampede Russet, TXA549-1Ru (Real), TXA549-1Ru, and ATX00289-2Ru were the outstanding entries based on general ratings and best of trial designations. COTX11189-1Ru, AORTX11175-1Ru, ATTX07039-2Ru, ATX10148-1Ru, COTX08322-10Ru, COTX11001-1Ru, COTX10141-11Ru, Russet Norkotah, TXNS410, and COTX10141-12Ru also received high general ratings (Tables 7a and 7e).
- COTX11189-1Ru had the highest total yield, while COTX11381-1Ru had the highest marketable yield ATX00289-2Ru had the highest yield of over 10 oz. tubers (Table 7a).
- COTX11189-1Ru had the highest yield of less than 4 oz. tubers (Table 7a).
- COTX11206-1Ru had the highest yield of culls/No. 2 tubers (Table 7a).
- COTX10141-13Ru had the highest percentage of marketable while ATX00289-2Ru had the highest yield of over 10 oz. tubers (Table 7b).
- COTX11018-1Ru had the highest percentage of less than 4 oz. tubers. COTX11206-1Ru had the highest percentage of culls/No.2 tubers (Table 7b).
- AORTX10121-2Ru had the highest specific gravity (Table 7b).
- COTX10080-2Ru, COTX11206-1Ru, and ATX10675-1Ru were the latest in maturity, while COTX09052-1Ru, Russet Norkotah, COTX10115-1Ru, and COTX05095-2Ru/Y were the earliest in maturity (Table 7c).

Comments on entries:

- COTX11189-1Ru Oblong Russet heavy set, blocky, move to chip trial, yield+, nice shape, keep+
- COTX11381-1Ru Oblong Russet rough, yield+, small, poor shape, DROP+
- AORTX11175-1Ru Oblong Russet pointed, misshapen, heavy set, nice, keep+, blocky, yield+, DROP
- ATX84378-6Ru Oblong Russet yield+, B's, keep+++, small, smooth, blocky, nice shape, BOT
- ATTX07039-2Ru Oblong Russet keep+, yield+, nice shape, large tubers, light set, BOT
- COTX11018-2Ru Oblong Russet blocky, small, heavy set, light set, DROP+
- Stampede Russet Oblong Russet nice shape, keep, light set, low yield, BOT
- ATX10148-1Ru Oblong Russet misshapen, close set, drop, nice, blocky, nice shape, keep, BOT
- COTX08322-10Ru Oblong Russet small, nice shape, blocky, keep, DROP
- COTX11001-1Ru Oblong Russet nice shape, small, light net, keep+
- COTX08258-6Ru Oblong Russet heavy set, nice shape, small, small, B's, too small, DROP+
- COTX11222-9Ru Oblong Russet rough, high yield, light net, small, DROP+
- COTX10080-3Ru Oblong Russet blocky, heavy set, keep, nice shape, keep, low yield, DROP
- COTX10141-13Ru Long Russet light russet, poor shape, some large, light yield, DROP+++
- TXA549-1Ru (Real) Oblong Russet blocky, nice shape, BOT-
- COTX10141-11Ru Long Russet variable size, yield+, nice shape, blocky, nice size, small, keep++, DROP
- COTX10080-5Ru Oblong Russet mixed, variable size, blocky, heavy set, B's, blocky, keep+, small, DROP
- AORTX10121-2Ru Oblong Russet blocky, nice shape, small, round, keep++
- COTX10080-2Ru Oblong Russet heat sprouts, drop, nice shape, some vascular discoloration, light set, keep++
- COTX10111-8Ru Oblong Russet nice shape, blocky, small, nice shape, light set, ok shape, keep++, DROP
- COTX09052-1Ru Oblong Russet small, nice shape, too small, keep, drop++
- TXA549-1Ru Oblong Russet nice, keep, small, blocky keep, nice, BOT+
- ATX00289-2Ru Oblong Russet very nice, nice shape, keep+, nice, drop, BOT
- Russet Norkotah Long Russet second growth, raised eyes, small, nice shape
- COTX10010-1Ru Long Russet pointed, yield+, nice, keep, B's, DROP

- TXNS410 Long Russet nice shape and skin, small, keep
- COTX10115-1Ru Oblong Russet small, heavy set, nice shape, keep, DROP
- COTX09042-2Ru Oblong Russet variable size, too small, light net, DROP++
- COTX11206-1Ru Oblong Russet shape problems, pointed, curved, poor shape, DROP++
- ATX10675-1Ru Oblong Russet heavy set, pointed, nice shape, keep, small, light set, DROP
- COTX11018-1Ru Oblong Russet small, poor shape, DROP+
- COTX05095-2Ru/Y Oblong Russet , flesh color 2.5, small, poor shape, blocky, drop++
- COTX10141-12Ru Oblong Russet light set, rough, ok shape, nice shape, blocky, keep, drop

Summary:

ATX84378-6Ru, Stampede Russet, TXA549-1Ru (Real), TXA549-1Ru, and ATX00289-2Ru were the outstanding entries 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 33 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2014.

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					
COTX11189-1Ru	TXRU	334.7	162.5	89.2	54.6	18.7	0.0	170.8	1.4	3.0	3.8
COTX11381-1Ru	TXRU	331.2	178.4	96.8	61.5	20.1	0.0	149.3	3.5	3.0	2.9
AORTX11175-1Ru	TXRU	285.6	162.1	84.7	72.6	4.8	0.0	123.4	0.0	2.8	3.8
ATX84378-6Ru	TXRU	272.8	110.3	71.2	37.3	1.7	0.0	162.5	0.0	4.0	3.6
ATX07039-2Ru	TXRU	261.4	178.0	79.2	65.7	33.2	0.0	77.4	5.9	3.6	4.1
COTX11018-2Ru	TXRU	249.6	170.8	92.7	78.1	0.0	0.0	78.8	0.0	1.5	3.1
Stampede Russet	TXRU	236.5	166.6	40.8	121.0	4.8	0.0	69.8	0.0	4.0	3.2
ATX10148-1Ru	TXRU	235.4	172.5	62.9	98.9	10.7	0.0	60.5	2.4	2.8	4.1
COTX08322-10Ru	TXRU	224.0	160.4	86.4	71.2	2.8	0.0	63.6	0.0	2.3	3.7
COTX11001-1Ru	TXRU	216.4	139.0	83.7	44.9	10.4	0.0	74.0	3.5	3.3	3.6
COTX08258-6Ru	TXRU	209.8	73.5	51.2	22.3	0.0	0.0	135.3	1.0	3.4	3.6
COTX11222-9Ru	TXRU	201.9	94.7	49.8	44.9	0.0	0.0	107.2	0.0	3.0	2.0
COTX10080-3Ru	TXRU	201.2	103.7	61.9	38.7	3.1	0.0	95.8	1.7	2.5	3.4
COTX10141-13Ru	TXRU	201.2	156.3	51.2	64.3	40.8	0.0	44.9	0.0	1.5	3.4
TXA549-1RU (Real)	TXRU	196.7	116.5	56.7	58.8	1.0	0.0	73.8	6.4	3.8	3.8
COTX10141-11Ru	TXRU	195.3	117.5	59.5	51.2	6.9	0.0	69.5	8.3	2.5	3.7
COTX10080-5Ru	TXRU	195.3	102.9	60.5	37.2	5.2	0.0	92.5	0.0	2.2	3.1
AORTX10121-2Ru	TXRU	192.2	124.5	61.5	53.2	9.7	0.0	67.8	0.0	3.0	3.6
COTX10080-2Ru	TXRU	177.7	112.7	43.6	51.5	17.6	0.0	65.0	0.0	3.0	3.5
COTX10111-8Ru	TXRU	176.5	115.6	62.9	51.2	1.6	0.0	60.8	0.0	2.8	3.5
COTX09052-1Ru	TXRU	176.3	70.7	47.4	18.5	4.8	0.0	105.6	0.0	3.0	3.3
TXA549-1RU	TXRU	172.3	88.3	55.8	27.7	4.8	0.0	84.0	0.0	3.8	3.8
ATX00289-2Ru	TXRU	170.8	119.8	33.0	41.0	45.8	3.8	42.4	4.8	2.8	4.0
Russet Norkotah	WR	168.4	110.3	44.4	48.7	17.1	0.0	57.2	0.9	3.0	3.6
COTX10010-1Ru	TXRU	166.5	98.4	62.4	31.8	4.1	0.0	63.1	5.0	3.0	3.5
TXNS410	TXRU	163.4	62.1	45.5	16.6	0.0	0.0	101.3	0.0	3.5	3.6
COTX10115-1Ru	TXRU	158.3	87.8	38.2	33.7	15.9	0.0	68.5	2.1	2.5	3.5
COTX09042-2Ru	TXRU	139.2	33.2	25.8	7.4	0.0	0.0	106.0	0.0	2.8	2.6
COTX11206-1Ru	TXRU	136.2	75.4	41.5	24.2	9.7	0.0	36.0	24.9	2.8	2.0
ATX10675-1Ru	TXRU	131.4	60.5	31.1	29.4	0.0	0.0	70.9	0.0	3.0	3.5
COTX11018-1Ru	TXRU	129.3	41.5	24.9	16.6	0.0	0.0	87.8	0.0	3.0	3.0
COTX05095-2Ru/Y	TXRU	117.9	60.2	28.7	16.9	14.5	0.0	57.7	0.0	2.8	2.7
COTX10141-12Ru	TXRU	117.7	75.4	43.9	23.9	7.6	0.0	39.6	2.8	1.0	3.6
Average		218.0	128.2	63.6	53.9	10.8	0.2	87.8	1.8	2.9	3.5
L.S.D. (.05)											

<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 33 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2014.

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				
COTX11189-1Ru	TXRU	48.6	26.7	16.3	5.6	0.0	51.0	0.4	1.069	14.7	Oblong	Russet
COTX11381-1Ru	TXRU	53.9	29.2	18.6	6.1	0.0	45.1	1.0	1.079	16.7	Oblong	Russet
AORTX11175-1Ru	TXRU	56.8	29.7	25.4	1.7	0.0	43.2	0.0	1.081	17.0	Oblong	Russet
ATX84378-6Ru	TXRU	40.4	26.1	13.7	0.6	0.0	59.6	0.0	1.071	15.2	Oblong	Russet
ATTX07039-2Ru	TXRU	68.1	30.3	25.1	12.7	0.0	29.6	2.2	1.060	13.2	Oblong	Russet
COTX11018-2Ru	TXRU	68.4	37.1	31.3	0.0	0.0	31.6	0.0	1.073	15.5	Oblong	Russet
Stampede Russet	TXRU	70.5	14.5	51.2	2.0	0.0	29.5	0.0	1.071	15.2	Oblong	Russet
ATX10148-1Ru	TXRU	73.3	26.7	42.0	4.6	0.0	25.7	1.0	1.074	15.7	Oblong	Russet
COTX08322-10Ru	TXRU	71.6	38.6	31.8	1.2	0.0	28.4	0.0	1.069	14.9	Oblong	Russet
COTX11001-1Ru	TXRU	64.2	38.7	20.8	4.8	0.0	34.2	1.6	1.073	15.6	Oblong	Russet
COTX08258-6Ru	TXRU	35.0	24.4	10.6	0.0	0.0	64.5	0.5	1.074	15.8	Oblong	Russet
COTX11222-9Ru	TXRU	46.9	24.7	22.3	0.0	0.0	53.1	0.0	1.067	14.5	Oblong	Russet
COTX10080-3Ru	TXRU	51.5	30.8	19.2	1.5	0.0	47.6	0.9	1.077	16.2	Oblong	Russet
COTX10141-13Ru	TXRU	77.7	25.4	32.0	20.3	0.0	22.3	0.0	1.074	15.7	Long	Russet
TXA549-1RU (Real)	TXRU	59.2	28.8	29.9	0.5	0.0	37.5	3.3	1.077	16.3	Oblong	Russet
COTX10141-11Ru	TXRU	60.2	30.4	26.2	3.5	0.0	35.6	4.2	1.073	15.6	Long	Russet
COTX10080-5Ru	TXRU	52.7	31.0	19.0	2.7	0.0	47.3	0.0	1.069	14.9	Oblong	Russet
AORTX10121-2Ru	TXRU	64.7	32.0	27.7	5.0	0.0	35.3	0.0	1.083	17.3	Oblong	Russet
COTX10080-2Ru	TXRU	63.4	24.5	29.0	9.9	0.0	36.6	0.0	1.071	15.2	Oblong	Russet
COTX10111-8Ru	TXRU	65.5	35.7	29.0	0.9	0.0	34.5	0.0	1.054	12.1	Oblong	Russet
COTX09052-1Ru	TXRU	40.1	26.9	10.5	2.7	0.0	59.9	0.0	1.067	14.5	Oblong	Russet
TXA549-1RU	TXRU	51.3	32.4	16.0	2.8	0.0	48.7	0.0	1.075	15.8	Oblong	Russet
ATX00289-2Ru	TXRU	70.1	19.3	24.0	26.8	2.2	24.8	2.8	1.069	14.7	Oblong	Russet
Russet Norkotah	WR	65.5	26.4	29.0	10.2	0.0	34.0	0.5	1.066	14.3	Long	Russet
COTX10010-1Ru	TXRU	59.1	37.5	19.1	2.5	0.0	37.9	3.0	1.073	15.5	Long	Russet
TXNS410	TXRU	38.0	27.8	10.2	0.0	0.0	62.0	0.0	1.070	15.1	Oblong	Russet
COTX10115-1Ru	TXRU	55.5	24.1	21.3	10.0	0.0	43.2	1.3	1.068	14.7	Oblong	Russet
COTX09042-2Ru	TXRU	23.9	18.5	5.3	0.0	0.0	76.1	0.0	1.067	14.5	Oblong	Russet
COTX11206-1Ru	TXRU	55.3	30.5	17.8	7.1	0.0	26.4	18.3	1.072	15.4	Oblong	Russet
ATX10675-1Ru	TXRU	46.1	23.7	22.4	0.0	0.0	53.9	0.0	1.071	15.1	Oblong	Russet
COTX11018-1Ru	TXRU	32.1	19.3	12.8	0.0	0.0	67.9	0.0	1.079	16.6	Oblong	Russet
COTX05095-2Ru/Y	TXRU	51.0	24.3	14.4	12.3	0.0	49.0	0.0	1.077	16.2	Oblong	Russet
COTX10141-12Ru	TXRU	64.0	37.3	20.3	6.5	0.0	33.6	2.3	1.075	15.8	Oblong	Russet
Average L.S.D. (.05)		59.1	29.1	24.8	5.1	0.1	39.9	0.9	1.072	15.3		



Springlake  
Table 7c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 33 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	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>	
COTX11189-1Ru	TXRU	9.2	3.0	1.6	100	2.3	3.4	3.8	3.6	30
COTX11381-1Ru	TXRU	9.7	2.8	3.4	100	2.0	3.8	3.9	3.5	65
AORTX11175-1Ru	TXRU	9.2	2.9	1.8	98	2.0	4.0	4.1	4.0	15
ATX84378-6Ru	TXRU	9.6	2.4	2.4	99	2.1	3.5	3.5	3.6	64
ATTX07039-2Ru	TXRU	6.1	4.0	2.4	89	2.5	3.1	3.5	3.2	39
COTX11018-2Ru	TXRU	7.1	3.1	1.5	95	2.3	3.6	3.8	3.6	33
Stampede Russet	TXRU	5.5	4.1	2.0	89	2.0	3.6	3.6	3.7	88
ATX10148-1Ru	TXRU	5.2	4.2	1.6	89	1.8	3.9	4.0	3.8	18
COTX08322-10Ru	TXRU	5.5	3.4	1.7	98	2.3	3.3	3.5	3.4	83
COTX11001-1Ru	TXRU	5.8	3.2	2.5	96	2.0	3.7	4.2	3.6	10
COTX08258-6Ru	TXRU	7.3	2.4	2.9	100	2.5	3.4	3.4	3.4	66
COTX11222-9Ru	TXRU	5.4	3.1	3.4	100	2.0	3.8	4.0	4.0	20
COTX10080-3Ru	TXRU	5.2	3.2	2.3	100	2.1	3.8	3.7	3.8	55
COTX10141-13Ru	TXRU	4.6	4.0	2.5	89	1.8	3.9	4.0	3.8	39
TXA549-1RU (Real)	TXRU	4.0	4.1	3.0	100	2.0	4.0	4.0	4.0	100
COTX10141-11Ru	TXRU	6.5	3.7	4.0	76	1.8	4.0	4.1	3.9	25
COTX10080-5Ru	TXRU	6.6	2.5	2.3	99	2.0	4.0	4.2	3.8	13
AORTX10121-2Ru	TXRU	4.9	3.7	1.6	88	2.0	3.3	3.6	3.5	25
COTX10080-2Ru	TXRU	3.9	3.8	2.7	100	2.0	3.9	4.4	3.9	15
COTX10111-8Ru	TXRU	4.5	3.3	2.0	99	2.5	2.8	2.8	2.9	73
COTX09052-1Ru	TXRU	5.7	2.7	2.7	100	2.0	3.6	3.3	3.5	56
TXA549-1RU	TXRU	4.9	2.9	3.4	100	2.3	3.9	3.9	3.7	69
ATX00289-2Ru	TXRU	3.2	4.7	2.0	99	2.4	3.5	3.8	3.6	78
Russet Norkotah	WR	3.6	3.9	2.2	100	2.0	3.8	3.4	3.7	100
COTX10010-1Ru	TXRU	6.1	3.0	2.2	87	2.1	3.5	3.6	3.4	44
TXNS410	TXRU	5.3	2.5	2.3	100	2.0	3.7	3.6	3.8	66
COTX10115-1Ru	TXRU	4.3	3.1	2.6	99	2.5	3.2	3.4	3.5	73
COTX09042-2Ru	TXRU	6.4	1.8	3.0	100	1.9	4.0	4.1	3.9	24
COTX11206-1Ru	TXRU	2.5	4.4	1.4	100	2.0	3.8	4.5	3.6	25
ATX10675-1Ru	TXRU	3.6	3.0	3.2	100	1.8	4.5	4.5	4.5	3
COTX11018-1Ru	TXRU	3.7	3.0	1.9	96	2.0	3.7	3.8	3.7	35
COTX05095-2Ru/Y	TXRU	3.8	2.8	2.1	100	2.1	3.4	3.4	3.5	75
COTX10141-12Ru	TXRU	3.2	3.7	3.1	87	1.9	4.0	4.1	4.0	34
Average		6.0	3.4	2.4	96	2.1	3.6	3.8	3.6	49
L.S.D. (.05)										

<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 33 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2014.

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
COTX11189-1Ru	TXRU	1.0	3.0	3.5	3.5	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX11381-1Ru	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
AORTX11175-1Ru	TXRU	1.0	2.5	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX84378-6Ru	TXRU	1.0	3.0	3.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX07039-2Ru	TXRU	1.0	3.0	3.5	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX11018-2Ru	TXRU	1.0	3.0	4.0	4.0	4.0	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	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX10148-1Ru	TXRU	1.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08322-10Ru	TXRU	1.0	3.0	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX11001-1Ru	TXRU	1.0	3.5	3.7	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08258-6Ru	TXRU	1.0	3.0	3.5	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX11222-9Ru	TXRU	1.0	3.0	3.0	3.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10080-3Ru	TXRU	1.0	3.0	4.0	3.5	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10141-13Ru	TXRU	1.0	3.0	4.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXA549-1RU (Real)	TXRU	1.0	3.0	3.8	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	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10080-5Ru	TXRU	1.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX10121-2Ru	TXRU	1.0	2.0	3.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10080-2Ru	TXRU	1.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
COTX10111-8Ru	TXRU	1.0	3.0	4.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09052-1Ru	TXRU	1.0	3.0	3.0	4.0	3.0	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	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX00289-2Ru	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
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
COTX10010-1Ru	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
TXNS410	TXRU	1.0	3.8	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10115-1Ru	TXRU	1.0	3.5	4.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09042-2Ru	TXRU	1.0	3.0	3.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX11206-1Ru	TXRU	1.0	4.0	4.0	3.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX10675-1Ru	TXRU	1.0	3.0	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX11018-1Ru	TXRU	1.0	3.5	3.7	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX05095-2Ru/Y	TXRU	2.3	3.0	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10141-12Ru	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
Average		1.0	3.2	3.6	3.8	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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
COTX11189-1Ru	TXRU	heavy set, blocky, move to chip trial, , ,	yield+, keep, , nice shape, low yield, keep,	3, 3, 3, 3	4, 4, 3.6, 3.6
COTX11381-1Ru	TXRU	, , rough, drop,	yield+, , small, poor shape, drop,	3, 3, 3, 3	3.8, 3.8, 2, 2
AORTX11175-1Ru	TXRU	, , pointed, misshapen, drop,	heavy set, nice, keep, , blocky, yield+, heavy set, keep,	2.8, 2.8, 2.8, 2.8	3.7, 3.7, 3.8, 3.8
ATX84378-6Ru	TXRU	, keep, BOT, ,	yield+, B's, keep, small, smooth, blocky, keep, nice shape, keep,	4, 4, 4, 4	3.7, 3.5, 3.5, 3.7
ATTX07039-2Ru	TXRU	, , , keep	yield+, BOT, keep, , nice shape, large tubers, light set	3.6, 3.6, 3.6, 3.6	4.5, 4, 3.8, 4
COTX11018-2Ru	TXRU	, , drop,	blocky, small, heavy set, , light set, drop,	1.5, 1.5, 1.5, 1.5	3.6, 3.6, 2.5, 2.5
Stampede Russet	TXRU	, nice BOT, ,	nice shape, keep, light set, low yield,	4, 4, 4, 4	3.7, 3, 2.5, 3.4
ATX10148-1Ru	TXRU	, , misshapen, close set, drop,	nice, BOT, , blocky, nice shape, keep,	2.8, 2.8, 2.8, 2.8	4.4, 4.4, 3.8, 3.8
COTX08322-10Ru	TXRU	, , drop,	small, , nice shape, blocky, keep,	2.3, 2.3, 2.3, 2.3	3.8, 3.8, 3.5, 3.5
COTX11001-1Ru	TXRU	, , keep,	nice shape, small, keep, , light net,	3.3, 3.3, 3.3, 3.3	3.6, 3.6, 3.5, 3.5
COTX08258-6Ru	TXRU	, , heavy set, drop,	, nice shape, small, small, B's, keep?, too small, drop	3.4, 3.4, 3.4, 3.4	3.7, 3.7, 3.5, 3.5
COTX11222-9Ru	TXRU	rough, high yield, drop, , ,	light net, small, drop, , ,	3, 3, 3, 3	2, 2, 2, 2
COTX10080-3Ru	TXRU	, , , blocky, drop	heavy set, keep, nice shape, keep, , low yield nice shape and size, light russet, poor shape, drop, some	2.5, 2.5, 2.5, 2.5	3.5, 3.7, 3.3, 3
COTX10141-13Ru	TXRU	, , , drop	large, light yield, drop	1.5, 1.5, 1.5, 1.5	3.7, 3.3, 3.6, 3
TXA549-1RU (Real)	TXRU	, , ,	blocky, nice shape, BOT-, , ,	3.8, 3.8, 3.8, 3.8	3.8, 3.8, 3.8, 3.8
COTX10141-11Ru	TXRU	, variable size, drop, ,	yield+, keep, nice shape, keep, blocky, nice size, keep, small	2.5, 2.5, 2.5, 2.5	3.7, 3.7, 3.7, 3.5
COTX10080-5Ru	TXRU	, , , mixed, variable size, blocky, drop	heavy set, B's, blocky, keep, , heavy set, keep, blocky, small	2.2, 2.2, 2.2, 2.2	3.5, 3, 3.3, 2.5
AORTX10121-2Ru	TXRU	, , blocky, keep,	nice shape, keep, blocky, nice shape, keep, small, round,	3, 3, 3, 3	3.7, 3.7, 3.5, 3.5
COTX10080-2Ru	TXRU	, heat sprouts, drop, ,	nice shape, keep, some vascular discoloration, nice shape, keep, light set,	3, 3, 3, 3	3.7, 3.8, 3, 3.5
COTX10111-8Ru	TXRU	, drop, ,	nice shape, keep, blocky, small, nice shape, keep, light set, ok shape, keep	2.8, 2.8, 2.8, 2.8	3.7, 3, 3.7, 3.4
COTX09052-1Ru	TXRU	, , keep,	small, nice shape, too small, drop, too small, drop,	3, 3, 3, 3	3.6, 3, 3, 3.4
TXA549-1RU	TXRU	, BOT, ,	nice, keep, small, blocky keep, nice, BOT	3.8, 3.8, 3.8, 3.8	3.8, 3.5, 3.8, 4
ATX00289-2Ru	TXRU	, , drop,	BOT, very nice, nice shape, keep, nice, keep	2.8, 2.8, 2.8, 2.8	4.4, 3.8, 3.8, 3.8
Russet Norkotah	WR	, , , second growth, raised eyes	, small, nice shape, nice shape,	3, 3, 3, 3	3.6, 3.6, 3.6, 3.6
COTX10010-1Ru	TXRU	, , , pointed, drop	yield+, nice, keep, , B's,	3, 3, 3, 3	3.7, 3.7, 3.3, 3.3
TXNS410	TXRU	, , keep,	, nice shape and skin, keep, small,	3.5, 3.5, 3.5, 3.5	3.7, 3.7, 3.4, 3.4
COTX10115-1Ru	TXRU	, , , small, drop	heavy set, nice shape, keep, nice shape, keep, small, nice shape, keep,	2.5, 2.5, 2.5, 2.5	3.6, 3.7, 3.5, 3
COTX09042-2Ru	TXRU	variable size, drop, , ,	too small, drop, , , light net	2.8, 2.8, 2.8, 2.8	2, 3, 3, 2.5
COTX11206-1Ru	TXRU	shape problems, drop, , ,	pointed, curved, poor shape, drop, , ,	2.8, 2.8, 2.8, 2.8	2, 2, 2, 2
ATX10675-1Ru	TXRU	, , heavy set, pointed, drop,	nice shape, keep, , small, light set,	3, 3, 3, 3	3.6, 3.6, 3.3, 3.3
COTX11018-1Ru	TXRU	drop, , ,	small, poor shape, drop, , ,	3, 3, 3, 3	3, 3, 3, 3
COTX05095-2Ru/Y	TXRU	, fl 2.5, small, drop, ,	small, poor shape, drop, blocky, ,	2.8, 2.8, 2.8, 2.8	2, 3.4, 2.5, 3
COTX10141-12Ru	TXRU	, , , light set, drop	rough, ok shape, keep?, keep, nice shape, blocky, keep	1, 1, 1, 1	3.7, 3.3, 3.6, 3.7

## Outstanding Texas Advanced Red Selections, 2015

**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, (NDTX050070-1R, ATX08121-5R, COTX07054-2R, NDTX092231C-1R, BTX2332-1R, TX11448-2R, TX12492-1R, and NDTX4784-7R).will be re-evaluated in the 2016 season.

### Texas Advanced Red Trial, Springlake

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

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

- Red LaSoda, NDTX050070-1R, TX11448-2R, and BTX2332-1R were the outstanding entries based on general ratings and best of trial notations (Table 8a and 8e).
- Red LaSoda had the highest total, and marketable yield (Table 8a).
- TX08375-3R had the highest yield of less than 4 oz. tubers (Table 8a).
- Red LaSoda had the highest percentage of marketable yield (Table 8b).
- NDTX081572B-1R had the highest percentage of less than 4 oz. tubers (Table 8b).
- NDTX092231C-1R had the highest specific gravity (Table 8b).
- TX11448-2R and NDTX081572B-1R had the highest average number of tubers per plant (Table 8c).
- Red LaSoda, BTX2332-1R, and COTX05211-5R were the latest maturing entries, while TX08375-3R and COTX02293-4R were the earliest maturing entries (Table 8c).
- Red LaSoda had a high percentage of vascular discoloration (Table 8d).

#### Comments on entries:

- Red LaSoda Oblong Red deep eyes, some vascular discoloration, BOT
- NDTX050070-1R Oblong Red variable size, nice size, yield+, feathering, nice skin color, light set, some road map, BOT
- TX08375-3R Oblong Red small tubers, Bruce Likes, good skin set, ZC??. small potato candidate, DROP
- BTX2332-1R Round Red smooth, some feathering, road map, nice skin color and shape, BOT+

- COTX05211-5R Oblong Red great skin color, smooth, too long, color parent, small potato candidate, ZC?? , DROP
- COTX07054-2R Oblong Red pointed, light color, variable size, nice shape, ZC?? , DROP
- TX11448-2R Round Red excellent color, Bruce Likes, lots of B's, nice shape, small, nice skin, BOT
- TX11448-3R Round Red nice round, light skin color, keep, small potato candidate,
- NDTX092231C-1R Oblong Red small, road map, light set, dark skin color, DROP
- COTX02293-4R Round Red very nice, Bruce Likes, light set, nice shape and color, keep
- NDTX081572B-1R Round Red small potato candidate, DROP
- COTX02172-1R Round Red small, keep, low yield, nice skin and flesh
- NDTX4784-7R Oblong Red dark skin color, poor skin finish, road map, Bruce Likes, light set, nice color+,

Summary:

Red LaSoda, NDTX050070-1R, TX08375-3R, BTX2332-1R, and TX11448-2R were the outstanding entries based on all factors.

Springlake  
Table 8a.

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 Texas Advanced Red Selection Trial grown near Springlake, Texas-2014.

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	244.1	171.9	49.6	94.4	27.9	0.0	57.6	14.7	4.0	3.5
NDTX050070-1R	TXRD	219.7	127.6	61.7	65.9	0.0	0.0	92.1	0.0	3.3	3.7
TX08375-3R	TXRD	196.5	34.6	27.3	6.2	1.0	0.0	162.0	0.0	2.5	3.6
BTX2332-1R	TXRD	174.9	104.6	55.5	49.1	0.0	0.0	70.4	0.0	4.5	3.9
COTX05211-5R	TXRD	168.4	49.8	32.5	17.3	0.0	0.0	118.6	0.0	3.3	3.4
COTX07054-2R	TXRD	154.4	55.0	36.0	19.0	0.0	0.0	99.4	0.0	2.7	3.5
TX11448-2R	TXRD	137.2	39.8	26.8	13.0	0.0	0.0	97.5	0.0	4.5	3.5
TX11448-3R	TXRD	127.4	52.7	47.0	5.7	0.0	0.0	74.7	0.0	3.5	3.5
NDTX092231C-1R	TXRD	106.7	74.7	48.4	26.3	0.0	0.0	32.0	0.0	3.0	3.2
COTX02293-4R	TXRD	99.2	40.6	26.8	13.8	0.0	0.0	58.6	0.0	4.5	3.5
NDTX081572B-1R	TXRD	60.0	9.5	5.4	4.1	0.0	0.0	50.5	0.0	2.0	3.4
COTX02172-1R	TXRD	58.8	19.0	12.1	6.9	0.0	0.0	39.8	0.0	3.7	3.0
NDTX4784-7R	TXRD	52.4	26.3	11.2	15.0	0.0	0.0	26.1	0.0	3.5	3.0
Average L.S.D. (.05)		138.4	62.0	33.9	25.9	2.2	0.0	75.3	1.1	3.5	3.4

<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 13 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2014.

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	70.4	20.3	38.7	11.4	0.0	23.6	6.0	1.062	13.6	Oblong	Red
NDTX050070-1R	TXRD	58.1	28.1	30.0	0.0	0.0	41.9	0.0	1.072	15.4	Oblong	Red
TX08375-3R	TXRD	17.6	13.9	3.2	0.5	0.0	82.4	0.0	1.061	13.4	Oblong	Red
BTX2332-1R	TXRD	59.8	31.7	28.1	0.0	0.0	40.2	0.0	1.068	14.7	Round	Red
COTX05211-5R	TXRD	29.6	19.3	10.3	0.0	0.0	70.4	0.0	1.060	13.3	Oblong	Red
COTX07054-2R	TXRD	35.6	23.3	12.3	0.0	0.0	64.4	0.0	1.072	15.3	Oblong	Red
TX11448-2R	TXRD	29.0	14.5	9.4	0.0	0.0	71.0	0.0	1.056	12.6	Round	Red
TX11448-3R	TXRD	41.4	36.9	4.5	0.0	0.0	58.6	0.0	1.062	13.6	Round	Red
NDTX092231C-1R	TXRD	70.0	45.4	24.6	0.0	0.0	30.0	0.0	1.074	15.7	Oblong	Red
COTX02293-4R	TXRD	40.9	27.0	13.9	0.0	0.0	59.1	0.0	1.062	13.6	Round	Red
NDTX081572B-1R	TXRD	15.9	8.9	6.9	0.0	0.0	84.1	0.0	1.061	13.4	Round	Red
COTX02172-1R	TXRD	32.4	20.6	11.8	0.0	0.0	67.6	0.0	1.065	14.0	Round	Red
NDTX4784-7R	TXRD	50.2	21.5	28.7	0.0	0.0	49.8	0.0	1.053	12.0	Oblong	Red
Average L.S.D. (.05)		42.4	24.0	17.1	0.9	0.0	57.2	0.5	1.064	13.9		

Springlake  
Table 8c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 13 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	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	6.2	4.2	2.0	82	2.1	4.3	4.4	4.3	3
NDTX050070-1R	TXRD	6.2	3.2	2.0	94	2.1	3.8	3.9	3.6	28
TX08375-3R	TXRD	10.0	1.6	2.0	100	2.5	3.1	2.8	3.0	49
BTX2332-1R	TXRD	6.4	3.0	2.0	78	2.0	4.5	4.5	4.3	6
COTX05211-5R	TXRD	9.7	1.4	1.8	100	2.0	3.9	4.3	3.9	0
COTX07054-2R	TXRD	8.5	2.0	1.6	79	2.6	2.8	3.6	2.5	21
TX11448-2R	TXRD	12.6	2.0	1.9	48	2.0	3.2	4.0	2.9	0
TX11448-3R	TXRD	10.0	2.1	2.1	54	2.3	2.3	3.8	2.4	23
NDTX092231C-1R	TXRD	10.3	2.8	2.3	33	1.8	2.0	4.1	2.3	0
COTX02293-4R	TXRD	9.0	2.2	2.9	44	2.1	2.4	3.2	2.3	44
NDTX081572B-1R	TXRD	12.5	1.3	2.2	35	2.3	2.7	4.0	2.5	10
COTX02172-1R	TXRD	7.8	1.7	2.5	39	2.1	1.8	3.6	1.8	26
NDTX4784-7R	TXRD	5.7	2.1	2.4	41	2.0	2.1	3.8	2.4	16
Average		8.8	2.3	2.1	64	2.2	3.0	3.8	2.9	17
L.S.D. (.05)										

<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 13 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2014.

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	5.0	0	0	18	0
NDTX050070-1R	TXRD	1.0	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
TX08375-3R	TXRD	1.0	3.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	4.5	0	0	0	0
BTX2332-1R	TXRD	1.0	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
COTX05211-5R	TXRD	1.0	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.5	0	0	0	0
COTX07054-2R	TXRD	1.0	3.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	4.5	0	0	0	0
TX11448-2R	TXRD	1.0	3.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	4.5	0	0	0	0
TX11448-3R	TXRD	1.0	2.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	4.5	0	0	0	0
NDTX092231C-1R	TXRD	1.0	3.0	1.0	4.0	4.1	5.0	5.0	5.0	5.0	4.5	0	0	0	0
COTX02293-4R	TXRD	1.0	3.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	4.5	0	0	0	0
NDTX081572B-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
COTX02172-1R	TXRD	1.0	3.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	4.5	0	0	0	0
NDTX4784-7R	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
Average		1.0	2.9	1.0	3.8	3.8	5.0	5.0	5.0	5.0	4.5	0	0	1	0
L.S.D. (.05)															

<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 13 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
Red LaSoda	WR	, BOT, ,	, deep eyes, some vascular discoloration, ,	4, 4, 4, 4	3.6, 3.56, 3.5, 3.5
NDTX050070-1R	TXRD	, , variable size, nice color,	nice size, BOT, yield+, feathering, nice skin color, light set, some road map	3.3, 3.3, 3.3, 3.3	3.8, 3.8, 3.6, 3.5
TX08375-3R	TXRD	, , small tubers, drop, Bruce Likes,	, good skin set, ZC??, small potato candidate, some feathering, BOT , road map, nice skin color and shape,	2.5, 2.5, 2.5, 2.5	3.7, 3.5, 3.7, 3.5
BTX2332-1R	TXRD	, , smooth, nice color and shape, BOT,		4.5, 4.5, 4.5, 4.5	4, 3.7, 3.7, 4
COTX05211-5R	TXRD	, great skin color, smooth, too long, color parent, drop, ,	, nice skin, small potato candidate, ZC??, ,	3.3, 3.3, 3.3, 3.3	3.5, 3.3, 3.3, 3.5
COTX07054-2R	TXRD	, , , pointed, light color, drop	, , , variable size, nice shape, ZC??	2.7, 2.7, 2.7, 2.7	3.4, 3.5, 3.5, 3.4
TX11448-2R	TXRD	excellent color, BOT, Bruce Likes, , ,	lots of B's, nice shape, , small, nice skin,	4.5, 4.5, 4.5, 4.5	3.5, 3.5, 3.5, 3.5
TX11448-3R	TXRD	, , nice round, light skin color, keep,	, , small potato candidate,	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.5, 3.5
NDTX092231C-1R	TXRD	, drop, ,	small, road map, light set, dark skin color, ,	3, 3, 3, 3	3.3, 3.3, 3, 3.3
COTX02293-4R	TXRD	very nice, keep, Bruce Likes, , ,	light set, nice shape and color, , ,	4.5, 4.5, 4.5, 4.5	3.5, 3.5, 3.5, 3.5
NDTX081572B-1R	TXRD	, drop, ,	, small potato candidate, ,	2, 2, 2, 2	3.3, 3.5, 3.4, 3.3
COTX02172-1R	TXRD	, small, keep, ,	, low yield, nice skin and flesh, ,	3.7, 3.7, 3.7, 3.7	3, 3, 3, 3
NDTX4784-7R	TXRD	, , dark skin color, poor skin finish, road map, Bruce Likes,	, , light set, nice color+,	3.5, 3.5, 3.5, 3.5	3, 3, 3, 3

## Outstanding Texas Advanced Red/Yellow Selections, 2015

**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 (Sierra Rose, ATTX10265-4R/Y, TX12471-7R/Y, and TX12471-1R/Y).will be tested again in 2016.

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

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

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

- Sierra Rose was the outstanding entry based on general rating and best of trial designation (Table 9a).
- TX11458-3R/Y 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 TX11458-3R/Y 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).
- TX11458-1R/Y had the highest percentage of less than 4 oz. tubers (Table 9b).
- Sierra Rose and TX11458-2R/Y had the highest specific gravity (Table 9b).
- TX11458-3R/Y and TX11458-1R/Y had the highest average number of tubers per plant (Table 9c).
- All the entries were late in maturity except Sierra Rose which was the earliest entry (Table 9c).
- TX11458-3R/Y had the darkest yellow flesh color (Table 9d).

#### Comments on entries:

- TX11458-3R/Y Oblong Red small potato candidate, nice color and flesh, keep, FC=3.2
- TX11458-1R/Y Oblong Red high yield, pointed, poor skin finish, Bruce Likes, small potato candidate, nice color, second set? , DROP, FC=3.0
- Sierra Rose Oblong Red growth crack, nice shape, low yield, ZC?, BOT, FC=3.0
- TX11458-2R/Y Oblong Red good skin color, Bruce Likes, small potato candidate, some vascular discoloration, keep, FC=3.0

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

Summary:

Sierra Rose was the outstanding entry based on all factors. TX11458-3R/Y and TX11458-1R/Y should be moved to the small potato trial.

Springlake  
Table 9a.

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 Red/Yellow Selection Trial grown near Springlake, Texas-2014.

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					
TX11458-3R/Y	TXR/Y	276.6	28.0	28.0	0.0	0.0	0.0	248.6	0.0	3.5	3.7
TX11458-1R/Y	TXR/Y	252.2	18.8	18.8	0.0	0.0	0.0	233.4	0.0	3.2	3.7
Sierra Rose	TXR/Y	216.8	96.5	58.4	38.0	0.0	0.0	120.3	0.0	3.4	4.0
TX11458-2R/Y	TXR/Y	162.0	44.4	40.3	4.1	0.0	0.0	117.5	0.0	3.5	3.5
Average L.S.D. (.05)		226.9	46.9	36.4	10.5	0.0	0.0	179.9	0.0	3.4	3.7

<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 4 entries in the Texas Advanced Red/Yellow Selection Trial grown near Springlake, Texas-2014.

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				
TX11458-3R/Y	TXR/Y	10.1	10.1	0.0	0.0	0.0	89.9	0.0	1.062	13.5	Oblong	Red
TX11458-1R/Y	TXR/Y	7.5	7.5	0.0	0.0	0.0	92.5	0.0	1.063	13.7	Oblong	Red
Sierra Rose	TXR/Y	44.5	27.0	17.5	0.0	0.0	55.5	0.0	1.065	14.1	Oblong	Red
TX11458-2R/Y	TXR/Y	27.4	24.9	2.6	0.0	0.0	72.6	0.0	1.065	14.1	Oblong	Red
Average L.S.D. (.05)		22.4	17.4	5.0	0.0	0.0	77.6	0.0	1.064	13.8		

Springlake  
Table 9c.

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 4 entries in the Texas Advanced Red/Yellow Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	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>	
TX11458-3R/Y	TXR/Y	17.9	1.3	2.5	98	2.0	4.1	4.2	4.0	0
TX11458-1R/Y	TXR/Y	17.8	1.2	2.7	100	2.1	4.0	3.9	3.8	5
Sierra Rose	TXR/Y	7.8	2.3	1.9	98	2.3	3.3	3.4	3.5	11
TX11458-2R/Y	TXR/Y	10.6	1.5	2.4	88	2.0	3.7	3.7	3.6	3
Average L.S.D. (.05)		13.5	1.6	2.4	96	2.1	3.8	3.8	3.7	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

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 4 entries in the Texas Advanced Red/Yellow Selection Trial grown near Springlake, Texas-2014.

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
TX11458-3R/Y	TXR/Y	3.2	2.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX11458-1R/Y	TXR/Y	3.0	2.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Sierra Rose	TXR/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
TX11458-2R/Y	TXR/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		3.1	2.3	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 4 entries in the Texas Advanced Red/Yellow Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
TX11458-3R/Y	TXR/Y	fl 3.2, small, keep, , , fl 3, high yield, pointed, poor skin finish, drop, Bruce	small potato candidate, nice color and flesh, , ,	3.5, 3.5, 3.5, 3.5	3.7, 3.7, 3.7, 3.7
TX11458-1R/Y	TXR/Y	Likes, , ,	small potato candidate, nice color, second set?, ,	3.2, 3.2, 3.2, 3.2	3.7, 3.7, 3.7, 3.7
Sierra Rose	TXR/Y	growth crack, nice shape, , ,	low yield, BOT, ZC?, ,	3.4, 3.4, 3.4, 3.4	4, 4, 4, 4
TX11458-2R/Y	TXR/Y	fl 2.5, good skin color, keep, Bruce Likes, , ,	small potato candidate, some vascular discoloration, , ,	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.5, 3.5

## Outstanding Texas Advanced White/Yellow Selections, 2015

**Overall Summary- Springlake and Dalhart.** The Texas Advanced White Skin Yellow Flesh Selection Trials included nine entries at Springlake and fourteen at Dalhart. Yukon Gold was the check variety for both locations. Based on both trials, (BTX1749-1W/Y, AORTX11913-3Wre/Y, COTX07382-2W/Y, COTX10097-2W/Y, and NDTX059759-3RY/Y Pinto).will be tested again in 2016.

### Texas Advanced White/Yellow Trial, Springlake

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

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

- NDTX059759-3RY/YPinto, BTX1749-1W/Y and COTX07382-2W/Y were the outstanding entries based on general rating and best of trial notation, while Yukon Gold and COTX05249-3WRE/Y also received high general ratings (Tables 10a).
- COTX10138-16W/Ypinto had the highest total yield, while Yukon Gold had the highest marketable yield (Table 10a).
- COTX05249-3WRE/Y had the highest yield of less than 4 oz. tubers (Table 10a).
- Yukon Gold and BTX1749-1W/Y had the highest percentage of marketable yield. COTX05249-3WRE/Y had the highest percentage of less than 4 oz. tubers (Table 10b).
- BTX1749-1W/Y and COTX07382-2W/Y had the highest specific gravity (Table 10b).
- NDTX113438CB-1WRSPL had the highest average number of tubers per plant (Table 10c).
- COTX10138-16W/Ypinto and NDTX059759-3RY/YPinto were the latest maturing entries, while COTX07382-2W/Y was the earliest maturing entry (Table 10c).
- COTX10097-2W/Y had the darkest yellow flesh (Table 10d).

#### Comments on entries:

- COTX10138-16W/Ypinto    Oblong White    yellow flesh, very small, light purple color, nice flesh, DROP, FC=2.8
- Yukon Gold                      Oblong White    low yield, uniform, nice, FC=2.5
- BTX1749-1W/Y                Oblong White    Bernard?, nice flesh, smooth, BOT-, FC=3.3

- COTX10138-8W/Ypinto Round White light purple skin, some vascular discoloration, variable size, DROP+, FC=3.1
  - COTX05249-3WRE/Y Round White move to small trial, send to Kelly, no red eye, small candidate, FC=2.5
  - NDTX113438CB-1WRSPL Oblong White chain tubers, red splash, white flesh, small, DROP, FC=1.0
  - COTX10097-2W/Y Oblong White very small, move to small trial, light set, variable size, DROP, FC=3.5
  - COTX07382-2W/Y Oblong White move to chip, send to Blackgold, Bruce Likes, smooth, nice, nice shape, light flesh, BOT, FC= 2.3
  - NDTX059759-3RY/Y Pinto Oblong White Bruce Likes, BOT, FC=2.8
- <sup>1</sup>FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

NDTX059759-3RY/YPinto, BTX1749-1W/Y and COTX07382-2W/Y were the outstanding entries 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 13 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2014.

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
COTX10138-16W/Ypinto	TXW/Y	215.4	85.2	67.8	14.2	3.3	0.0	130.2	0.0	3.0	3.2
Yukon Gold	WR	207.1	121.0	49.8	62.9	8.3	0.0	86.1	0.0	3.0	3.8
BTX1749-1W/Y	TXW/Y	186.0	108.7	63.4	35.1	10.2	0.0	77.3	0.0	3.7	3.9
COTX10138-8W/Ypinto	TXW/Y	165.1	51.7	38.4	13.3	0.0	0.0	113.4	0.0	2.5	3.3
COTX05249-3WRE/Y	TXW/Y	160.4	9.2	8.0	1.2	0.0	0.0	151.3	0.0	3.0	3.7
NDTX113438CB-1WRSPL	TXW/Y	144.9	27.3	21.4	5.9	0.0	0.0	117.5	0.0	2.0	3.5
COTX10097-2W/Y	TXW/Y	131.0	30.8	18.7	10.4	1.7	0.0	100.3	0.0	2.5	3.7
COTX07382-2W/Y	TXW/Y	125.9	65.0	39.8	21.7	3.6	0.0	60.8	0.0	3.0	3.9
NDTX059759-3RY/Y Pinto	TXW/Y	124.5	17.3	16.2	1.0	0.0	0.0	107.2	0.0	4.5	4.5
Average		162.2	57.4	35.9	18.4	3.0	0.0	104.9	0.0	3.0	3.7
L.S.D. (.05)											

<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 13 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2014.

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				
COTX10138-16W/Ypinto	TXW/Y	39.6	31.5	6.6	1.5	0.0	60.4	0.0	1.057	12.7	Oblong	White
Yukon Gold	WR	58.4	24.0	30.4	4.0	0.0	41.6	0.0	1.073	15.6	Oblong	White
BTX1749-1W/Y	TXW/Y	58.5	34.1	18.9	5.5	0.0	41.5	0.0	1.079	16.7	Oblong	White
COTX10138-8W/Ypinto	TXW/Y	31.3	23.2	8.1	0.0	0.0	68.7	0.0	1.063	13.7	Round	White
COTX05249-3WRE/Y	TXW/Y	5.7	5.0	0.8	0.0	0.0	94.3	0.0	1.068	14.6	Round	White
NDTX113438CB-1WRSPL	TXW/Y	18.9	14.8	4.1	0.0	0.0	81.1	0.0	1.055	12.2	Oblong	White
COTX10097-2W/Y	TXW/Y	23.5	10.8	7.9	1.3	0.0	76.5	0.0	1.073	15.6	Oblong	White
COTX07382-2W/Y	TXW/Y	51.7	31.6	17.2	2.9	0.0	48.3	0.0	1.079	16.7	Oblong	White
NDTX059759-3RY/Y Pinto	TXW/Y	13.9	13.1	0.8	0.0	0.0	86.1	0.0	1.061	13.5	Oblong	White
Average L.S.D. (.05)		33.5	20.9	10.5	1.7	0.0	66.5	0.0	1.068	14.6		

Springlake  
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 13 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	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>	
COTX10138-16W/Ypinto	TXW/Y	9.5	2.0	2.7	100	2.0	4.0	4.4	4.0	0
Yukon Gold	WR	5.6	3.2	1.3	96	1.8	3.4	3.4	3.4	25
BTX1749-1W/Y	TXW/Y	6.2	2.7	2.1	95	2.0	3.5	3.4	3.7	38
COTX10138-8W/Ypinto	TXW/Y	6.0	2.3	1.5	100	2.0	3.3	3.8	3.2	16
COTX05249-3WRE/Y	TXW/Y	9.5	1.4	2.1	100	2.1	3.5	3.6	3.6	31
NDTX113438CB-1WRSPL	TXW/Y	10.7	1.4	2.4	89	2.0	3.6	3.4	3.6	40
COTX10097-2W/Y	TXW/Y	9.1	1.6	2.0	74	2.4	3.3	3.5	3.5	18
COTX07382-2W/Y	TXW/Y	4.6	2.5	1.8	92	2.3	2.9	2.7	3.2	53
NDTX059759-3RY/Y Pinto	TXW/Y	5.9	1.7	2.3	100	1.8	4.1	4.5	4.0	0
Average		7.5	2.1	2.0	94	2.0	3.5	3.6	3.6	24
L.S.D. (.05)										

<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 13 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2014.

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
COTX10138-16W/Ypinto	TXW/Y	2.8	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Yukon Gold	WR	2.5	3.0	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	3.3	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10138-8W/Ypinto	TXW/Y	3.1	3.0	1.0	4.0	2.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX05249-3WRE/Y	TXW/Y	2.5	2.8	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113438CB-1WRSPL	TXW/Y	1.0	2.0	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	3.5	3.0	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	2.3	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059759-3RY/Y Pinto	TXW/Y	2.8	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.6	2.9	1.0	4.0	1.2	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 13 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
COTX10138-16W/Ypinto	TXW/Y	, fl 3, yellow flesh, ,	very small, light purple color, , very light purple, nice flesh, drop,	3, 3, 3, 3	3.3, 3.3, 3, 3
Yukon Gold	WR	, , , fl 2.5	, , , low yield, uniform, nice	3, 3, 3, 3	3.8, 3.8, 3.8, 3.8
BTX1749-1W/Y	TXW/Y	, , , fl 3, Bernard?	BOT-, nice flesh, smooth, , light purple skin, drop, very light purple skin, some vascular discoloration, variable size,	3.7, 3.7, 3.7, 3.7	4, 3.7, 4, 3.7
COTX10138-8W/Ypinto	TXW/Y	, , , fl 3, drop	move to small trial, no red eye, , not red eyes, small candidate, not red eyes, small candidate	2.5, 2.5, 2.5, 2.5	3.3, 3, 3.5, 3.5
COTX05249-3WRE/Y	TXW/Y	, fl 2, move to small trial, send to Kelly, ,	, , red splash, white flesh, small, red splash, white flesh, small	3, 3, 3, 3	3.7, 3.7, 3.5, 3.8
NDTX113438CB-1WRSPL	TXW/Y	chain tubers, white flesh, drop, , ,	, very small, move to small trial, light set, variable size,	2, 2, 2, 2	3.5, 3.5, 3.5, 3.5
COTX10097-2W/Y	TXW/Y	fl 3, drop, , ,	, very small, move to small trial, light set, variable size,	2.5, 2.5, 2.5, 2.5	3.8, 3.8, 3.5, 3.5
COTX07382-2W/Y	TXW/Y	, , , fl 2, move to chip, send to blackgold, Bruce Likes	smooth, nice , BOT, smooth, nice shape, light flesh, ,	3, 3, 3, 3	4, 3.8, 3.8, 4
NDTX059759-3RY/Y Pinto	TXW/Y	, fl 3, BOT, Bruce Likes, ,	, , BOT,	4.5, 4.5, 4.5, 4.5	4.5, 4.5, 4.5, 4.5



## Outstanding Texas Advanced Small Potato Selections, 2015

**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 (AORTX09147-1W, AORTX11468-1W, AORTX11913-4P, AORTX11913-5P, AORTX11913-6P/Y, ATTX05175S-1R/Y, ATX05186S-1R, ATX06264S-4R/Y, ATX08117-3P, COTX04050S-1P/P, COTX04193S-2R/Y, COTX10073S-1W, COTX10138S-7W/Y, COTX10226S-1W/Y, NDTX050169-1R, NDTX071258BS-1R, NDTX081451CBS-1Y/Y, NDTX102639CS-1W, NDTX102816CABS-1W, NDTX113037C-2W, TX09406S-1P/P, TX12471-6W/Y, and TX12494-1R/Y).

### Texas Advanced Small Potato Selection Trial, Springlake

This trial consisted of twenty entries.

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

- COTX10138S-7W/Y, NDTX092238CS-3P/W, NDTX081451CBS-1Y/Y ATTX05175S-1R/Y, ATX06264S-4R/Y, and TX09406S-1P/P were the outstanding entries for this trial based on general rating and best of trial notation, while TX12471-10W/Y, COTX10073S-1W, NDTX092238CS-1P/W, ATX05186S-1R, NDTX102816CABS-1W, NDTX092238CS-4P/W, NDTX059886S-1W/Y, and COTX04050S-1P/P also had high general ratings (Table 11a and 11e).
- TX12471-10W/Y had the highest total, marketable and under sized tubers (Table 11a).
- COTX04050S-1P/P had the highest percentage of marketable tubers. COTX04193S-2R/Y had the highest percentage of under sized tubers (Table 11b).
- TX12471-10W/Y, COTX10138S-7W/Y, NDTX102816CABS-1W, and ATTX05175S-1R/Y had the highest average number of tubers per plant (Table 11c).
- NDTX102796CbS-2W and ATTX05186S-3W/Y were the latest maturing entries, while ATX05186S-1R, ATX06254S-2R, NDTX071258BS-1R, and COTX04193S-2R/Y were the earliest maturing entries (Table 11c).
- ATTX05175S-1R/Y had the darkest yellow flesh. TX09406S-1P/P and COTX04050-1P/P had very dark purple flesh (Table 11d).

Comments on entries:

- TX12471-10W/Y      Round White      Kelly, very uniform, nice skin, size, and flesh, FC=3.5
- NDTX113037C-2W      Oblong White      move to chip trial, Bruce Likes, nice shape, some large, keep, BOT, FC=1.0
- COTX10138S-7W/Y      Oblong White      heavy set, send to Kelly, uniform, nice size, BOT++, FC=3.0
- NDTX092238CS-3P/W      Round Purple      white flesh, Bruce Likes, nice size, nice skin, very white flesh, BOT-, FC=1.0
- NDTX081451CBS-1Y/Y      Oblong White      heavy yield, move to yellow trial, Kelly likes, nice size, flesh, and skin, uniform, BOT-, FC=3.0
- COTX10073S-1W      Round White      smooth skin, great skin finish, small fresh, Bruce Likes, uniform, nice shape, send to Kelly, FC=1.0
- NDTX102639CS-1W      Oblong White      move to chip trial, high yield, too big, light set, DROP, FC=1.0
- NDTX092238CS-1P/W      Oblong Purple      white flesh, low yield, Bruce Likes, some larger tubers, nice skin and size, better size, ZC?? , DROP, FC=1.0
- ATX05186S-1R      Oblong Red      nice, very white flesh, small size++, nice size, some road map, light set, keep, FC=1.0
- NDTX102816CABS-1W      Round White      variable size, too small++, nice shape, very white flesh, DROP, FC=1.0
- ATTX05175S-1R/Y      Round Red      Kelly likes, Bruce Likes, better size, very small, size parent, BOT, FC=3.2
- ATX06264S-4R/Y      Oblong Red      scurf, poor skin finish, Kelly likes, heavy set, very nice shape, uniform, keep CSS, BOT+, FC=3.0
- TX09406S-1P/P      Round Purple      small, skin finish ok, nice shape, skin, and flesh, good size, keep, BOT, FC=5.0
- NDTX092238CS-4P/W      Round Purple      white flesh, nice size and skin, light set, keep, FC=1.0
- COTX10226S-1W/Y      Round White      red splash, nice size, FC=2.5
- NDTX059886S-1W/Y      Oblong White      light set, nice shape, light flesh, some pointed, DROP, FC=2.8
- COTX04050S-1P/P      Oblong Purple      heat sprouts, Kelly likes, very dark skin and flesh, DROP, FC=5.0

- NDTX071258BS-1R      Round Red      good color, good skin finish, move to red trial, Bruce Likes, uniform, light set, mixed skin color, DROP+, FC=1.0
- TX11448S-4R      Round Red      white flesh, Kelly likes, light skin, low yield, mixed skin color, DROP+++, FC=1.0
- COTX04193S-2R/Y      Round Red      low yield, CSS, FC=3.0

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

Summary:

COTX10138S-7W/Y, NDTX092238CS-3P/W, NDTX081451CBS-1Y/Y ATTX05175S-1R/Y, ATX06264S-4R/Y, and TX09406S-1P/P were the outstanding entries for this trial based on all factors. TX12471-10W/Y, COTX10073S-1W, NDTX092238CS-1P/W, ATX05186S-1R, NDTX102816CABS-1W, NDTX092238CS-4P/W, NDTX059886S-1W/Y, and COTX04050S-1P/P, COTX10138S-7WPE/Y, and TX09406S-1P/P also deserve mention.

Springlake  
Table 11a.

Total yield, total yield of U.S. No.1, under sized and culls/No.2 potatoes and general rating of 20 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2015.

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
TX12471-10W/Y	TXSM	237.0	172.9	30.1	34.1	0.0	3.5	4.0
NDTX113037C-2W	TXSM	225.4	135.5	71.9	18.0	0.0	4.3	3.5
COTX10138S-7W/Y	TXSM	215.0	166.8	15.9	32.3	0.0	3.5	4.2
NDTX092238CS-3P/W	TXSM	206.6	159.4	24.0	23.2	0.0	3.6	4.0
NDTX081451CBS-1Y/Y	TXSM	195.7	132.8	34.6	28.3	0.0	3.5	3.9
COTX10073S-1W	TXSM	177.7	123.8	29.7	24.2	0.0	3.5	3.8
NDTX102639CS-1W	TXSM	175.5	127.6	40.6	7.3	0.0	3.5	3.4
NDTX092238CS-1P/W	TXSM	172.3	135.0	19.5	17.8	0.0	2.5	3.8
ATX05186S-1R	TXSM	160.4	112.2	17.5	30.8	0.0	3.3	3.8
NDTX102816CABS-1W	TXSM	158.2	110.3	5.4	42.5	0.0	2.5	3.6
ATX05175S-1R/Y	TXSM	155.2	126.9	1.2	27.1	0.0	4.5	3.9
ATX06264S-4R/Y	TXSM	152.5	101.6	24.4	26.4	0.0	3.0	4.1
TX09406S-1P/P	TXSM	151.3	110.3	25.9	15.0	0.0	3.4	4.0
NDTX092238CS-4P/W	TXSM	146.2	122.0	15.4	8.8	0.0	2.8	3.7
COTX10226S-1W/Y	TXSM	145.5	118.8	9.9	16.9	0.0	3.3	3.3
NDTX059886S-1W/Y	TXSM	138.1	99.4	27.8	10.9	0.0	2.8	3.7
COTX04050S-1P/P	TXSM	127.2	108.9	3.8	14.5	0.0	2.0	4.0
NDTX071258BS-1R	TXSM	121.5	86.4	17.6	17.5	0.0	4.5	3.4
TX11448S-4R	TXSM	32.0	21.1	7.1	3.8	0.0	2.5	3.0
COTX04193S-2R/Y	TXSM	14.5	9.0	0.0	5.5	0.0	1.0	2.5
Average L.S.D. (.05)		155.4	114.0	21.1	20.3	0.0	3.2	3.7

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

Springlake  
Table 11b.

Percent by weight of U.S. No. 1, under sized and culls/No.2 potatoes, tuber type and skin type of 20 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Marketable Yield	Percent By Weight			Tuber Type	Skin Type
			Over Sized	Under Sized	Culls/ No. 2		
TX12471-10W/Y	TXSM	72.9	12.7	14.4	0.0	Round	White
NDTX113037C-2W	TXSM	60.1	31.9	8.0	0.0	Oblong	White
COTX10138S-7W/Y	TXSM	77.6	7.4	15.0	0.0	Oblong	White
NDTX092238CS-3P/W	TXSM	77.2	11.6	11.2	0.0	Round	Purple
NDTX081451CBS-1Y/Y	TXSM	67.8	17.7	14.5	0.0	Oblong	White
COTX10073S-1W	TXSM	69.6	16.7	13.6	0.0	Round	White
NDTX102639CS-1W	TXSM	72.7	23.2	4.1	0.0	Oblong	White
NDTX092238CS-1P/W	TXSM	78.3	11.3	10.3	0.0	Oblong	Purple
ATX05186S-1R	TXSM	69.9	10.9	19.2	0.0	Oblong	Red
NDTX102816CABS-1W	TXSM	69.7	3.4	26.9	0.0	Round	White
ATX05175S-1R/Y	TXSM	81.7	0.8	17.5	0.0	Round	Red
ATX06264S-4R/Y	TXSM	66.7	16.0	17.3	0.0	Oblong	Red
TX09406S-1P/P	TXSM	72.9	17.1	9.9	0.0	Round	Purple
NDTX092238CS-4P/W	TXSM	83.5	10.5	6.0	0.0	Round	Purple
COTX10226S-1W/Y	TXSM	81.6	10.5	11.6	0.0	Round	White
NDTX059886S-1W/Y	TXSM	72.0	20.2	7.9	0.0	Oblong	White
COTX04050S-1P/P	TXSM	85.6	3.0	11.4	0.0	Oblong	Purple
NDTX071258BS-1R	TXSM	71.1	14.5	14.4	0.0	Round	Red
TX11448S-4R	TXSM	65.9	22.2	11.9	0.0	Round	Red
COTX04193S-2R/Y	TXSM	61.9	0.0	38.1	0.0	Round	Red
Average		72.9	13.1	14.2	0.0		
L.S.D. (.05)							

Springlake  
Table 11c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 20 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	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>	
TX12471-10W/Y	TXSM	17.5	1.1	2.4	99	2.0	4.1	3.8	4.0	0
NDTX113037C-2W	TXSM	15.8	1.2	2.8	100	2.0	5.0	5.0	4.6	0
COTX10138S-7W/Y	TXSM	20.4	0.9	2.6	100	2.6	3.4	3.7	3.6	6
NDTX092238CS-3P/W	TXSM	15.5	1.1	2.1	100	1.9	4.2	4.1	3.9	0
NDTX081451CBS-1Y/Y	TXSM	13.4	1.2	2.7	98	2.3	4.3	4.5	4.1	3
COTX10073S-1W	TXSM	15.8	1.0	1.6	96	2.0	4.2	4.6	4.0	0
NDTX102639CS-1W	TXSM	8.5	1.7	1.8	98	1.9	3.8	3.7	3.8	4
NDTX092238CS-1P/W	TXSM	11.1	1.3	2.0	100	2.0	3.8	3.5	3.8	15
ATX05186S-1R	TXSM	16.0	0.9	2.2	98	2.1	4.0	4.2	3.8	0
NDTX102816CABS-1W	TXSM	19.7	0.7	3.1	100	2.0	3.9	4.5	4.0	0
ATX05175S-1R/Y	TXSM	17.5	0.8	2.3	100	2.4	3.9	4.1	3.9	0
ATX06264S-4R/Y	TXSM	14.4	0.9	1.8	98	2.0	3.6	3.7	3.6	3
TX09406S-1P/P	TXSM	12.8	1.0	2.1	98	2.5	3.6	4.1	3.5	10
NDTX092238CS-4P/W	TXSM	10.4	1.1	2.1	100	1.6	4.0	4.1	4.1	0
COTX10226S-1W/Y	TXSM	15.6	0.8	1.9	98	2.1	3.6	3.8	3.5	8
NDTX059886S-1W/Y	TXSM	8.3	1.5	1.6	95	2.0	3.8	4.4	3.7	0
COTX04050S-1P/P	TXSM	16.9	0.7	1.9	88	1.9	4.1	4.4	3.9	3
NDTX071258BS-1R	TXSM	9.5	1.1	2.1	99	2.3	3.0	3.0	3.3	46
TX11448S-4R	TXSM	6.5	1.0	1.8	42	2.1	1.1	4.0	1.9	21
COTX04193S-2R/Y	TXSM	2.6	0.6	1.4	75	2.0	2.5	4.0	2.5	20
Average		13.4	1.0	2.1	94	2.1	3.7	4.1	3.7	7
L.S.D. (.05)										

<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 20 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, 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
TX12471-10W/Y	TXSM	3.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113037C-2W	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
COTX10138S-7W/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
NDTX092238CS-3P/W	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
NDTX081451CBS-1Y/Y	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
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
NDTX102639CS-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
NDTX092238CS-1P/W	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
ATX05186S-1R	TXSM	1.0	2.0	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	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05175S-1R/Y	TXSM	3.2	2.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX06264S-4R/Y	TXSM	3.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	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	5.0	0	0	0	0
NDTX092238CS-4P/W	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-1W/Y	TXSM	2.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059886S-1W/Y	TXSM	2.8	2.0	1.0	4.0	1.0	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	5.0	0	0	0	0
NDTX071258BS-1R	TXSM	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX11448S-4R	TXSM	1.0	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04193S-2R/Y	TXSM	3.0	2.0	2.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.1	2.0	1.1	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 20 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
TX12471-10W/Y	TXSM	, fl 3.5, Kelly, ,	, very uniform, nice skin, size, and flesh, ,	3.5, 3.5, 3.5, 3.5	4, 4, 4, 4
NDTX113037C-2W	TXSM	move to red chip trial, BOT, Bruce Likes, , ,	nice shape, some large, keep, , ,	4.3, 4.3, 4.3, 4.3	3.5, 3.5, 3.5, 3.5
COTX10138S-7W/Y	TXSM	, fl 3.3, heavy set, send to Kelly, ,	, uniform, , nice size, heavy set, BOT++	3.5, 3.5, 3.5, 3.5	4.2, 4.2, 4.2, 4.2
NDTX092238CS-3P/W	TXSM	, white flesh, BOT-, Bruce Likes, ,	nice size, , BOT-, nice skin, very white flesh	3.6, 3.6, 3.6, 3.6	4, 4, 4, 3.8
NDTX081451CBS-1Y/Y	TXSM	, , fl 3, heavy yield, move to yellow trial, Kelly likes, , , , smooth skin, great skin finish, small fresh, Bruce	, , uniform, BOT-,	3.5, 3.5, 3.5, 3.5	3.8, 3.8, 4, 4
COTX10073S-1W	TXSM	Likes	, , , uniform, nice shape, send to Kelly	3.5, 3.5, 3.5, 3.5	3.7, 3.8, 3.8, 3.8
NDTX102639CS-1W	TXSM	move top chip trial, high yield, , ,	, too big, drop, , light set some larger tubers, nice skin and size, , better size,	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.3, 3.3
NDTX092238CS-1P/W	TXSM	, white flesh, low yield, drop, Bruce Likes, ,	ZC??,	2.5, 2.5, 2.5, 2.5	3.7, 3.8, 3.8, 3.8
ATX05186S-1R	TXSM	, , , nice, very white flesh, keep	, small size++, nice size, some road map, light set	3.3, 3.3, 3.3, 3.3	3.8, 3.8, 3.8, 3.8
NDTX102816CABS-1W	TXSM	variable size, drop, , ,	too small++, nice shape, very white flesh, ,	2.5, 2.5, 2.5, 2.5	3.5, 3.5, 3.6, 3.7
ATX05175S-1R/Y	TXSM	, , , fl 3.5, Kelly likes, BOT, Bruce Likes	, Better size, BOT, , very small, size parent	4.5, 4.5, 4.5, 4.5	4, 3.84, 4, 3.8
ATX06264S-4R/Y	TXSM	, , , fl 2.5, scurf, poor skin finish, Kelly likes, keep CSS	heavy set, very nice shape, uniform, BOT+, Kelly likes,	3, 3, 3, 3	4.2, 4, 4, 4.2
TX09406S-1P/P	TXSM	fl 4, small, skin finish ok, keep, , ,	, nice shape, skin, and flesh, , Good size, BOT	3.4, 3.4, 3.4, 3.4	3.8, 4, 4, 4
NDTX092238CS-4P/W	TXSM	, , , white flesh, keep?	nice size and skin, white flesh, nice keep, , light set	2.8, 2.8, 2.8, 2.8	3.7, 3.7, 3.7, 3.5
COTX10226S-1W/Y	TXSM	, , , red splash	nice size, red splash, nice shape, , ,	3.3, 3.3, 3.3, 3.3	3.3, 3.3, 3.3, 3.3
NDTX059886S-1W/Y	TXSM	, , , fl 2.5, drop	light set, nice shape, light flesh, some pointed, ,	2.8, 2.8, 2.8, 2.8	3.7, 3.7, 3.7, 3.7
COTX04050S-1P/P	TXSM	, , fl 4, heat sprouts, drop, , good color, good skin finish, move to red trial, Bruce	, , Kelly likes, very dark skin and flesh	2, 2, 2, 2	4, 4, 4, 4
NDTX071258BS-1R	TXSM	Likes, ,	uniform, light set, drop+, , mixed skin color	4.5, 4.5, 4.5, 4.5	3.5, 3.3, 3.3, 3.3
TX11448S-4R	TXSM	, , , white flesh, drop, Kelly likes	light skin, low yield, mixed skin color, drop+++ , ,	2.5, 2.5, 2.5, 2.5	3, 3, 3, 3
COTX04193S-2R/Y	TXSM	fl 3.5, low yield, CSS, , ,	, , ,	1, 1, 1, 1	2.5, 2.5, 2.5, 2.5



## Outstanding Texas Advanced Fingerling Selections, 2015

**Overall Summary – Springlake and Dalhart.** The Texas Advanced Fingerling Selection Trial consisted of four entries in Springlake and eight entries in Dalhart. Banana and Purple Peruvian were the checks. The following entries (COTX08365F-3P/P, COTX08044F-1R/R, and COTX08365F-1P/P).will be tested again in 2016.

### Texas Advanced Fingerling Selection Trial, Springlake

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

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

- COTX08365F-3P/P, COTX08365F-1P/P, and COTX08044F-1R/R were the outstanding entries for this trial based on general ratings and best of trial designations (Table 12a and 12e).
- COTX08365F-3P/P had the highest total and marketable yield (Table 12a).
- COTX08365F-1P/P had the highest yield of under sized tubers. COTX08365-3P/P had the highest yield of oversized tubers (Table 12a).
- COTX08365F-3P/P had the highest percentage of marketable yield. Banana had the highest percentage of under sized tubers (Table 12b).
- COTX08365F-1P/P and COTX08044F-1R/R had the highest average number of tubers per plant (Table 12c).
- All entries were late in maturity (Table 12c).
- COTX08365F-3P/P had the darkest purple flesh (Table 12d).

#### Comments on entries:

- COTX08365F-3P/P Long Purple fingerling, nice shape and color, BOT+, FC=4.0
- COTX08365F-1P/P Long Purple fingerling, keep, not curved enough, nice color, BOT, FC=3.8
- COTX08044F-1R/R Long Red nice color, light pink flesh, nice shape, skin, and flesh, BOT, FC=3.5
- Banana Long White too small, rough, deep eyes, chain tubers, FC=1.0

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

Summary:

COTX08365F-3P/P, COTX08365F-1P/P, and COTX08044F-1R/R were the outstanding entries for this trial based on all factors.

Springlake  
Table 12a.

Total yield, total yield of U.S. No.1, under sized and culls/No.2 potatoes and general rating of 4 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2015.

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-3P/P	TXFING	140.5	114.8	5.4	20.4	0.0	4.0	4.0
COTX08365F-1P/P	TXFING	133.8	42.9	0.0	90.9	0.0	4.0	3.6
COTX08044F-1R/R	TXFING	129.1	46.0	0.0	83.1	0.0	3.0	4.0
Banana	TXFING	31.5	0.0	0.0	31.5	0.0	3.5	2.0
Average L.S.D. (.05)		108.7	50.9	1.3	56.5	0.0	3.6	3.4

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

Springlake  
Table 12b.

Percent by weight of U.S. No. 1, under sized and culls/No.2 potatoes, tuber type and skin type of 4 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Marketable Yield	Percent By Weight			Tuber Type	Skin Type
			Over Sized	Under Sized	Culls/ No. 2		
COTX08365F-3P/P	TXFING	81.7	3.8	14.5	0.0	Long	Purple
COTX08365F-1P/P	TXFING	32.0	0.0	68.0	0.0	Long	Purple
COTX08044F-1R/R	TXFING	35.6	0.0	64.4	0.0	Long	Red
Banana	TXFING	0.0	0.0	100.0	0.0	Long	White
Average		37.3	1.0	61.7	0.0		
L.S.D. (.05)							

Springlake  
Table 12c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 4 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	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	TXFING	6.9	1.8	1.9	96	2.1	3.5	3.8	3.6	5
COTX08365F-1P/P	TXFING	16.8	0.7	1.7	89	2.0	3.7	4.1	3.7	0
COTX08044F-1R/R	TXFING	15.7	1.1	2.1	66	1.8	2.9	4.3	3.0	4
Banana	TXFING	12.2	0.2	1.6	90	2.0	4.4	4.5	4.0	0
Average L.S.D. (.05)		12.9	0.9	1.8	85	2.0	3.6	4.2	3.6	2

<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 4 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, 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
COTX08365F-3P/P	TXFING	4.0	5.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08365F-1P/P	TXFING	3.8	4.0	1.0	4.0	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	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Banana	TXFING	1.0	4.0	1.0	2.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.1	4.3	1.0	3.5	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 4 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
COTX08365F-3P/P	TXFING	, , , fl 3.8, fingerling, BOT	, , , nice shape and color, BOT	4, 4, 4, 4	4, 4, 4, 4
COTX08365F-1P/P	TXFING	fl 3.5, fingerling, keep, BOT , , ,	not curved enough, nice color, , ,	4, 4, 4, 4	3.6, 3.6, 3.6, 3.6
COTX08044F-1R/R	TXFING	, fl 3, nice color, light pink flesh, poor shape, drop, ,	, nice shape, skin, and flesh, BOT, ,	3, 3, 3, 3	4, 4, 4, 4
Banana	TXFING	, , ,	, too small, rough, deep eyes, chain tubers, ,	3.5, 3.5, 3.5, 3.5	2, 2, 2, 2

## Outstanding Texas Advanced Purple/Purple Red Selections, 2015

**Overall Summary – Springlake and Dalhart.** The Texas Advanced Purple/Purple Red Selection Trial consisted of three entries in Springlake and five entries in Dalhart. The following entries (NDTX091886-3P/P and TX12474-1P/R).will be tested again in 2016 as colored flesh chips.

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

This trial consisted of three entries.

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

- NDTX102903-6R/R received the highest general rating and best of trial designation (Table 13a).
- NDTX102903-6R/R had the highest total and marketable yield (Table 13a).
- TX09429-1P/P had the highest yield of under 4 oz. tubers (Table 13a).
- NDTX102903-6R/R had highest percentage of marketable yield, while NDTX091886-3P/P had the highest percentage of less than 4 oz. tubers (Table 13b).
- NDTX091886-3P/P had the highest specific gravity (Table 13b).
- NDTX102903-6R/R and TX09429-1P/P had the highest average number of tubers per plant (Table 13c).
- NDTX091886-3P/P was the latest maturing clone, while NDTX102903-6R/R and TX09429-1P/P were the earliest maturing entries (Table 13c).
- TX09429-1P/P had the darkest purple flesh color (Table 13d).

#### Comments on entries:

- NDTX102903-6R/R Round Red nice skin finish, light pink flesh, Bruce Likes, very nice flesh, shape, and skin, BOT+, FC=3.5
- TX09429-1P/P Round Purple keep for flesh, poor shape, variable flesh color, faded skin color, road map, DROP, FC=4.5
- NDTX091886-3P/P Oblong Purple poor skin finish, rough, poor yield, light set, small, DROP++, FC=3.8

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



Summary:

NDTX102903-6R/R was the outstanding entry 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 3 entries in the Texas Advanced Purple/Purple Red Selection Trial grown near Springlake, 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> Field	General Rating <sup>1</sup> Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
NDTX102903-6R/R	TXP/P	178.6	90.2	76.6	11.2	2.4	0.0	88.3	0.0	4.5	4.0
TX09429-1P/P	TXP/P	163.9	64.6	52.5	12.1	0.0	0.0	99.2	0.0	2.5	3.4
NDTX091886-3P/P	TXP/P	80.6	10.4	10.4	0.0	0.0	0.0	70.2	0.0	3.0	3.3
Average L.S.D. (.05)		141.0	55.1	46.5	7.8	0.8	0.0	85.9	0.0	3.3	3.6

<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 3 entries in the Texas Advanced Purple/Purple Red Selection Trial grown near Springlake, 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				
NDTX102903-6R/R	TXP/P	50.5	42.9	6.3	1.4	0.0	49.5	0.0	1.064	14.0	Round	Red
TX09429-1P/P	TXP/P	39.5	32.1	7.4	0.0	0.0	60.5	0.0	1.074	15.7	Round	Purple
NDTX091886-3P/P	TXP/P	12.9	12.9	0.0	0.0	0.0	87.1	0.0	1.080	16.8	Oblong	Purple
Average L.S.D. (.05)		34.3	29.3	4.6	0.5	0.0	65.7	0.0	1.073	15.5		

Springlake  
Table 13c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 3 entries in the Texas Advanced Purple/Purple Red Selection Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	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>	
NDTX102903-6R/R	TXP/P	7.7	1.9	2.2	99	2.0	3.5	3.3	3.5	54
TX09429-1P/P	TXP/P	7.7	1.8	2.1	98	2.4	3.5	3.3	3.6	43
NDTX091886-3P/P	TXP/P	4.1	2.1	1.5	96	1.9	3.7	3.9	3.6	6
Average L.S.D. (.05)		6.5	1.9	1.9	98	2.1	3.6	3.5	3.6	34

<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 3 entries in the Texas Advanced Purple/Purple Red Selection Trial grown near Springlake, 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
NDTX102903-6R/R	TXP/P	3.5	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09429-1P/P	TXP/P	4.5	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX091886-3P/P	TXP/P	3.8	3.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.9	2.3	1.0	4.0	4.3	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 3 entries in the Texas Advanced Purple/Purple Red Selection Trial grown near Springlake, Texas-2015.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
NDTX102903-6R/R	TXP/P	, , , fl 2.5, nice shape, nice skin finish, light pink flesh, BOT, Bruce Likes	, , , very nice flesh, shape, and skin, BOT+ keep for flesh??. poor shape, variable flesh color, faded	4.5, 4.5, 4.5, 4.5	4, 4, 4, 4
TX09429-1P/P	TXP/P	fl 5, drop, keep for flesh, , ,	skin color, road map, ,	2.5, 2.5, 2.5, 2.5	3.3, 3.5, 3.3, 3.5
NDTX091886-3P/P	TXP/P	poor skin finish, rough, drop, , ,	poor yield, light set, small, drop, , ,	3, 3, 3, 3	3.3, 3.3, 3.3, 3.3

## Outstanding Texas Advanced Purple/Yellow Selections, 2015

**Overall Summary – Springlake and Dalhart.** The Texas Advanced Purple/Yellow Selection Trial consisted of six entries in Springlake and ten entries in Dalhart. The following entries (COTX10138-19P/Y and ATX08121-3P/Y).will be tested again in 2016.

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

This trial consisted of six entries.

Results from the trial were as follows: (Springlake Tables 14a, 14b, 14c, 14d, and 14e)

- COTX10138-18P/Y received the highest general rating and best of trial designation, while TX08121-3P/Y, COTX10138-19P/Y, and ATTX10265-8P/Y also had high general ratings (Table 14a and 14f).
- COTX10138-18P/Y had the highest total and marketable yield (Table 14a).
- ATX08121-3P/Y had the highest yield of under 4 oz. tubers (Table 14a).
- ATTX10265-8P/Y had highest percentage of marketable yield, while ATX08121-3P/Y had the highest percentage of less than 4 oz. tubers (Table 14b).
- ATX08121-3P/Y had the highest specific gravity (Table 14b).
- ATX08121-3P/Y had the highest average number of tubers per plant (Table 14c).
- ATTX10262-1P was the latest maturing entry, while ATX08121-3P/Y was the earliest maturing entry (Table 14c).
- COTX10138-19P/Y and COTX10138-18P/Y had the darkest yellow flesh color (Table 14d).

#### Comments on entries:

- COTX10138-18P/Y Oblong Purple skin, finish?, Bruce Likes, nice shape and flesh, keep, BOT+, FC=3.6
- ATX08121-3P/Y Oblong Purple small, move to small potato trial, very light flesh, keep?, FC=2.0
- COTX10138-19P/Y Oblong Purple mixed or two set, large, keep, ZC?, FC=3.7
- ATTX10265-8P/Y Oblong Purple skin finish problems, nice shape and flesh, DROP, FC=3.5
- ATTX10262-1P Round Purple variable size, deep eyes, light set, white flesh, DROP, FC=1.0

- TX10437-10P Round Purple very white flesh, growth cracks, Bruce Likes, white flesh, poor shape+, DROP+, FC=1.0

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

Summary:

COTX10138-18P/Y was the outstanding entry based on all factors. TX08121-3P/Y, COTX10138-19P/Y, and ATTX10265-8P/Y also deserve mention.



Springlake  
Table 14a.

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 Purple Skin Yellow  
Flesh 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> Field	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
COTX10138-18P/Y	TXP/Y	261.7	132.8	97.7	27.7	7.4	0.0	129.0	0.0	3.5	3.8
ATX08121-3P/Y	TXP/Y	258.2	58.1	51.9	4.5	1.7	0.0	200.1	0.0	3.3	3.8
COTX10138-19P/Y	TXP/Y	202.9	104.9	70.5	26.4	8.0	0.0	98.0	0.0	3.5	3.8
ATX10265-8P/Y	TXP/Y	144.5	98.9	60.2	24.9	13.8	0.0	45.6	0.0	3.4	3.7
ATX10262-1P	TXP/Y	115.5	43.2	32.5	6.2	4.5	0.0	72.3	0.0	2.5	3.3
TX10437-10P	TXP/Y	81.8	41.7	31.8	7.1	2.8	0.0	40.1	0.0	2.8	1.5
Average		177.4	79.9	57.4	16.1	6.4	0.0	97.5	0.0	3.1	3.3
L.S.D. (.05)											

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

Springlake  
Table 14b.

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 Purple Skin Yellow Flesh 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				
COTX10138-18P/Y	TXP/Y	50.7	37.3	10.6	2.8	0.0	49.3	0.0	1.058	12.9	Oblong	Purple
ATX08121-3P/Y	TXP/Y	22.5	20.1	1.7	0.7	0.0	77.5	0.0	1.073	15.5	Oblong	Purple
COTX10138-19P/Y	TXP/Y	51.7	34.8	13.0	3.9	0.0	48.3	0.0	1.059	13.0	Oblong	Purple
ATTX10265-8P/Y	TXP/Y	68.4	41.6	17.2	9.6	0.0	31.6	0.0	1.059	13.0	Oblong	Purple
ATTX10262-1P	TXP/Y	37.4	28.1	5.4	3.9	0.0	62.6	0.0	1.050	11.4	Round	Purple
TX10437-10P	TXP/Y	51.0	38.9	8.7	3.4	0.0	49.0	0.0	1.048	11.1	Round	Purple
Average L.S.D. (.05)		46.9	33.5	9.4	4.0	0.0	53.1	0.0	1.058	12.8		

Springlake  
Table 14c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 6 entries in the Texas Advanced Purple Skin Yellow Flesh Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	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>	
COTX10138-18P/Y	TXP/Y	10.1	2.2	2.3	100	2.0	3.9	3.8	3.8	6
ATX08121-3P/Y	TXP/Y	13.9	1.5	2.3	100	2.3	3.4	3.2	3.6	38
COTX10138-19P/Y	TXP/Y	8.5	2.1	1.7	96	2.0	3.6	3.8	3.7	1
ATX10265-8P/Y	TXP/Y	8.2	2.4	1.7	64	2.0	3.4	4.3	3.6	0
ATX10262-1P	TXP/Y	5.8	1.7	1.8	100	2.0	4.3	4.6	4.0	0
TX10437-10P	TXP/Y	6.0	2.3	1.4	51	2.0	3.4	4.1	3.4	3
Average L.S.D. (.05)		8.7	2.0	1.9	85	2.0	3.6	3.9	3.7	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

Springlake  
Table 14d.

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 Purple Skin Yellow Flesh 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
COTX10138-18P/Y	TXP/Y	3.6	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX08121-3P/Y	TXP/Y	2.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10138-19P/Y	TXP/Y	3.7	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX10265-8P/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	0
ATTX10262-1P	TXP/Y	1.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX10437-10P	TXP/Y	1.0	3.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.5	2.2	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 14e.

Notes and general rating for all reps of 6 entries in the Texas Advanced Purple Skin Yellow Flesh Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
COTX10138-18P/Y	TXP/Y	, , fl 3.5, skin, finish?, keep, Bruce Likes,	, , nice shape and flesh, BOT+,	3.5, 3.5, 3.5, 3.5	3.8, 3.8, 3.8, 3.8
ATX08121-3P/Y	TXP/Y	, , fl 2.7, small, keep?,	, , move to small potato trial, very light flesh,	3.5, 3.5, 3, 3	3.8, 3.8, 3.8, 3.8
COTX10138-19P/Y	TXP/Y	fl 3.3, mixed or two set, large, keep , , ,	, ZC?, ,	3.5, 3.5, 3.5, 3.5	3.8, 3.8, 3.8, 3.8
ATX10265-8P/Y	TXP/Y	, , fl 3, skin finish problems, drop,	, , nice shape and flesh,	3.5, 3.5, 3.2, 3.2	3.7, 3.7, 3.7, 3.7
ATX10262-1P	TXP/Y	variable size, deep eyes, drop, , , , , , very white flesh, growth cracks, shape problems,	light set, white flesh, , ,	2.5, 2.5, 2.5, 2.5	3.3, 3.3, 3.3, 3.3
TX10437-10P	TXP/Y	drop, Bruce Likes	, , , white flesh, poor shape+, drop+	2.5, 2.5, 2.5, 3.5	1.5, 1.5, 1.5, 1.5

## 2015 Dalhart Trials

### Summary of growing conditions:

These trials were planted 10 miles southwest of Dalhart in a CSS Farms production field on 18 to 21 May and harvested on 21, 28 September, 5, and 19 October. 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
- Commercial Variety Chip
- Texas Advanced Chip Selection
- 2014 Chip Selection
- Texas Advanced Russet Selection
- 2014 Russet Selection
- Texas Advanced Red Selection
- 2014 Red Selection
- Texas Advanced Red/Yellow Selection
- 2014 Red /Yellow Selection
- Texas Advanced White/Yellow Selection
- 2014 White/Yellow Selection
- Texas Advanced Small Potato Selection
- 2014 Small Potato Selection
- Texas Advanced Fingerling Selection
- Texas Advanced Purple/Purple Selection
- Texas Advanced Purple/Yellow Selection
- Texas Advanced Fingerling Selection
- Commercial Variety Chip(not reported)

Table 3. Environmental and cultural inputs for the 2015 Dalhart Trials.			
Location:			
Dalhart, Texas			
Soil Type			
Dallum Fine Sand Loam			
Seed Source			
New York, Colorado, Oregon, Texas, and Idaho			
Date:			
			DAP
Planted	May 18, 2015		
Vines Killed (Red and Red Yellow Flesh)	August 20, 2015		92
Vines Killed (Chip and White Yellow Flesh)	August 20, 2015		92
Vines Killed (Russet)	September 8, 2015		110
Harvested (Nat Chip Trial, Chip)	September 21, 2015		123
Harvested (Red and Red/White Yellow Flesh)	October 5, 2015		137
Harvested (Small )	September 28, 2015		130
Harvested (Russet)	October 19, 2015		151
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:			
171-136-13 # per acre			
Irrigation:			
Center Pivot			
Seed Treatment			
Cruiser Maxx			
Insecticide:			
Beleaf, Fulfill, Movento, Reaper, Torac, Transform WG			
Herbicides Applied:			
Select Max, Chateau, Brawl, Acumen, Tricor, Marix SG, Reglone			
Fungicide Applied:			
Quadris, Penncozeb, Bravo, Revus Top, Scala SC, Luna Tranquility, Echo, Curzate 60DF, Gavel			
Environmental Factors:			
Precipitation was significantly higher than normal during the growing season.			

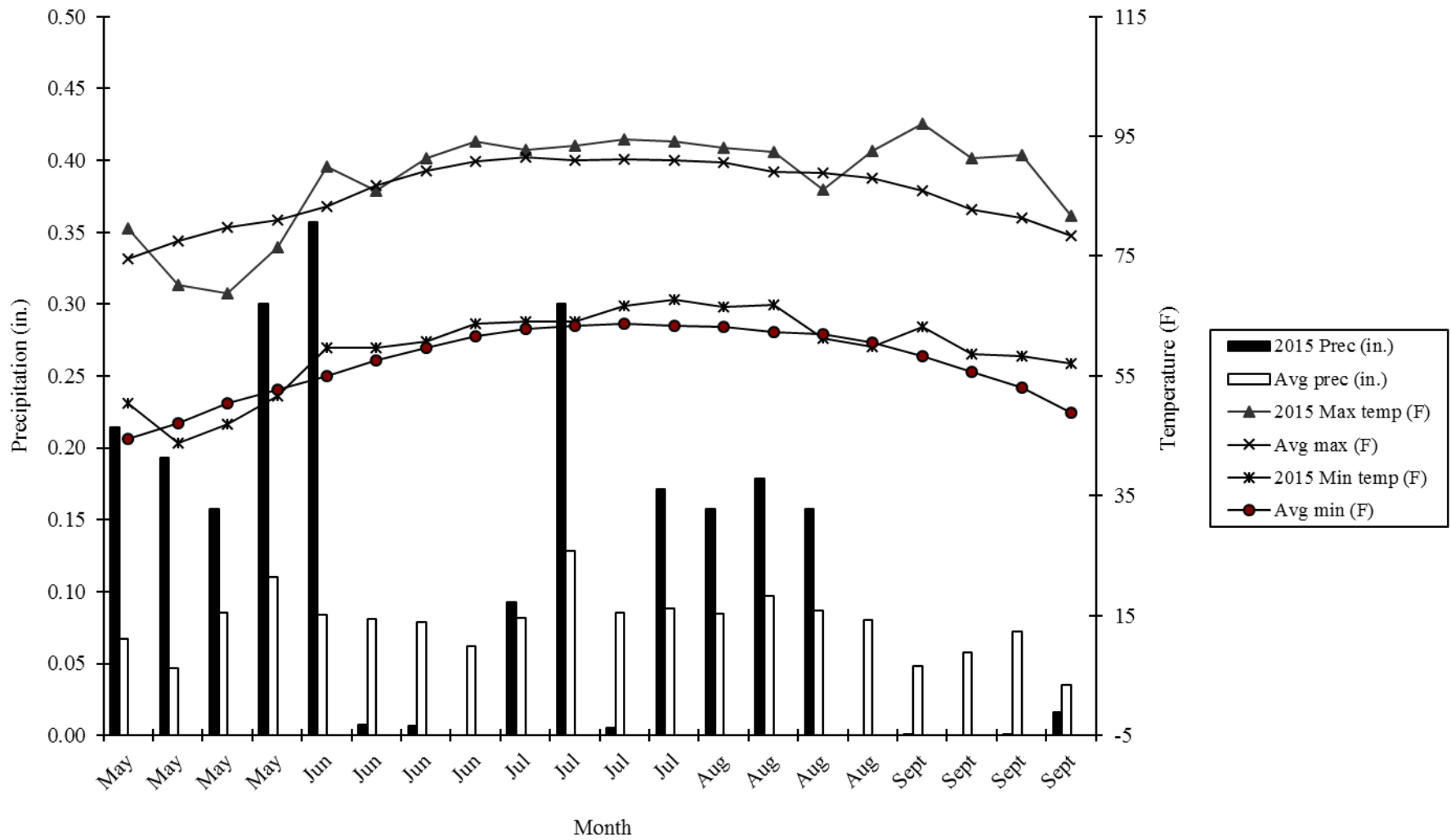


Figure 4. Weekly minimum/maximum temperatures and precipitation for the 2015-growing season near Dalhart, Texas compared to the average minimum/maximum temperatures and precipitation (1949-2015).



## Western and Southwestern Regional Chip Trial, Dalhart

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

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

- AC00206-2W was the outstanding entry based on tuber appearance and percentage good chips. AF4157-6, Waneta, and OR09256-2 had the highest general rating and best of trial designation for tuber appearance. (Table 1a, 1e, and 1f).
- Atlantic(CSS) had the highest total and marketable yield (Table 1a).
- BNC182-5 had the highest yield of over 10 oz. tubers (Table 1a).
- CO07070-10W had the highest yield of less than 4 oz. tubers (Table 1a).
- AF0338-17 had the highest percentage of marketable yield (Table 1b).
- Baltic Cream had the highest percentage of less than 4 oz. tubers (Table 1b).
- CO07070-10W had the highest specific gravity (Table 1b).
- OR09256-2 and NY148 had the highest average number of tubers per plant (Table 1c).
- All of the entries were late in maturity (Table 1c).
- Both sources of Atlantic had the highest percent hollow heart and internal brownspot, while Snowden and AC00206-2W also had a high percentage of hollow heart (Table 1d).
- AC00206-2W produced the highest quality chips (Table 1f).

### Comments on entries:

- |                 |              |   |
|-----------------|--------------|---|
| • Atlantic(CSS) | Oblong Buff  | yield+, internal brownspot, nice shape, poor internals, CR=1.0                          |
| • AF4157-6      | Round White  | very nice, nice uniform, BOT-, CR=1.0   |
| • CO07070-13W   | Round White  | yield++, B's, nice, smooth, nice shape, CR=1.0  |
| • Snowden       | Oblong White | nice size, browncenter, hollow heart, CR=1.0  |
| • Waneta        | Oblong White | very nice size, BOT++, CR=2.0   |
| • AC03452-2W    | Round White  | rough, CR=1.0   |
| • OR09256-2     | Round White  | nice size, small, nice flesh, BOT, CR=1.0   |
| • BNC182-5      | Long White   | too oblong, poor shape, nice flesh, light set, large tubers, yellow flesh, DROP, CR=3.0 |
| • AC00206-2W    | Round White  | uniform, internal brownspot, nice shape, poor internals, CR=1.0                         |

- AF4648-2 Oblong White uniform, nice shape, smooth, CR=1.0
- Atlantic(Oregon) Oblong Buff yield+, hollow heart, nice shape, poor internals, CR=2.0
- AC05153-1W Round White uniform, some flat, CR=1.0
- NY148 Oblong White nice smooth skin, uniform, CR=1.0
- CO07070-10W Round White uniform, nice, small all B's, CR=3.0
- MSK061-4 Long White poor internals, smooth skin, CR=1.0
- AC03433-1W Round White nice, light set, nice shape, CR=1.0
- AF0338-17 Oblong White poor shape, CR=2.0
- Kea Round White B's, nice yellow flesh, CR=3.0
- Baltic Cream Round White low yield, nice yellow flesh, very small, B's+++ , CR=2.0

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

Summary:

AF4157-6, AC00206-2W, and Waneta, 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 19 entries in the Western and Southwestern Regional Chip 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
ATLANTIC(CSS)	Hig	515.4	440.7	231.0	146.8	63.0	0.0	74.7	0.0	3.8
AF4157-6	Hig	459.8	375.2	243.8	100.3	31.1	0.0	82.9	1.6	4.0
CO07070-13W	SW	442.9	371.9	291.6	68.1	12.3	2.0	69.0	0.0	4.0
Snowden	WR	440.0	378.1	173.7	150.8	53.6	4.8	57.1	0.0	3.8
NY138	Hig	436.1	399.4	182.7	142.6	74.1	0.0	36.1	0.7	4.3
AC03452-2W	WR	422.1	360.7	197.5	129.8	33.5	0.0	61.3	0.0	3.5
OR09256-2	WR	415.8	346.6	284.8	61.9	0.0	0.0	69.2	0.0	4.0
BNC182-5	Hig	390.6	350.7	113.3	115.1	122.3	0.0	35.9	4.0	2.0
AC00206-2W	WR	368.2	309.7	198.6	84.0	27.1	0.0	58.6	0.0	3.9
AF4648-2	Hig	361.7	311.1	163.1	107.6	40.4	0.0	50.5	0.0	3.8
Atlantic(Oregon)	WR	360.9	318.8	141.3	114.6	63.0	0.0	42.1	0.0	3.9
AC05153-1W	WR	345.7	303.5	183.8	92.8	26.9	0.0	42.3	0.0	3.6
NY148	Hig	338.0	285.5	171.1	88.0	26.4	0.0	52.5	0.0	3.9
CO07070-10W	SW	335.9	237.2	196.9	39.2	1.1	0.0	98.7	0.0	3.8
MSK061-4	Hig	299.1	265.9	168.9	73.8	23.2	0.0	33.1	0.0	3.9
AC03433-1W	WR	251.1	216.5	104.7	57.1	54.7	0.0	34.6	0.0	3.6
AF0338-17	Hig	232.1	222.6	87.5	97.4	37.7	0.0	9.5	0.0	2.5
Kea	Hig	216.2	117.3	116.4	0.9	0.0	0.0	97.0	1.8	3.2
Baltic Cream	Hig	80.5	0.9	0.0	0.9	0.0	0.0	79.6	0.0	3.0
Average L.S.D. (.05)		353.3	295.4	171.1	88.0	36.3	0.4	57.1	0.4	3.6

<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 19 entries in the Western and Southwestern Regional Chip 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				
ATLANTIC(CSS)	Hig	85.5	44.8	28.5	12.2	0.0	14.5	0.0	1.076	16.0	Oblong	Buff
AF4157-6	Hig	81.6	53.0	21.8	6.8	0.0	18.0	0.4	1.078	16.5	Round	White
CO07070-13W	SW	84.0	65.8	15.4	2.8	0.5	15.6	0.0	1.078	16.4	Round	White
Snowden	WR	85.9	39.5	34.3	12.2	1.1	13.0	0.0	1.068	14.6	Oblong	White
NY138	Hig	91.6	41.9	32.7	17.0	0.0	8.3	0.2	1.069	14.8	Oblong	White
AC03452-2W	WR	85.5	46.8	30.7	7.9	0.0	14.5	0.0	1.057	12.6	Round	White
OR09256-2	WR	83.4	63.6	14.9	0.0	0.0	16.6	0.0	1.073	15.5	Round	White
BNC182-5	Hig	89.8	29.0	29.5	31.3	0.0	9.2	1.0	1.064	13.9	Long	White
AC00206-2W	WR	84.1	53.9	22.8	7.4	0.0	15.9	0.0	1.076	16.1	Round	White
AF4648-2	Hig	86.0	45.1	29.8	11.2	0.0	14.0	0.0	1.076	16.0	Oblong	White
Atlantic(Oregon)	WR	88.3	39.1	31.7	17.4	0.0	11.7	0.0	1.079	16.6	Oblong	Buff
AC05153-1W	WR	87.8	53.1	26.8	7.8	0.0	12.2	0.0	1.079	16.5	Round	White
NY148	Hig	84.5	50.6	26.0	7.8	0.0	15.5	0.0	1.074	15.7	Oblong	White
CO07070-10W	SW	70.6	58.6	11.7	0.3	0.0	29.4	0.0	1.088	18.2	Round	White
MSK061-4	Hig	88.9	56.5	24.7	7.8	0.0	11.1	0.0	1.071	15.1	Long	White
AC03433-1W	WR	86.2	41.7	22.7	21.8	0.0	13.8	0.0	1.074	15.6	Round	White
AF0338-17	Hig	95.9	37.7	42.0	16.2	0.0	4.1	0.0	1.072	15.4	Oblong	White
Kea	Hig	54.3	53.9	0.4	0.0	0.0	44.9	0.8	1.076	16.1	Round	White
Baltic Cream	Hig	1.1	0.0	1.1	0.0	0.0	98.9	0.0	1.073	15.5	Round	White
Average		79.7	46.0	23.6	9.9	0.1	20.1	0.1	1.074	15.6		
L.S.D. (.05)												

Dalhart  
Table 1c.

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 19 entries in the Western and Southwestern Regional Chip 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>	
ATLANTIC(CSS)	Hig	8.3	4.7	100	2.0	4.7	4.7	4.6	4
AF4157-6	Hig	9.6	3.6	100	2.0	4.0	4.0	4.0	1
CO07070-13W	SW	9.7	3.4	100	2.0	4.5	4.0	4.5	15
Snowden	WR	6.9	4.7	100	2.0	4.2	4.0	4.2	0
NY138	Hig	7.4	4.4	100	2.0	4.0	4.0	4.0	14
AC03452-2W	WR	8.3	3.7	100	2.0	4.5	4.5	4.5	0
OR09256-2	WR	10.4	2.9	100	2.0	4.7	4.5	4.7	1
BNC182-5	Hig	6.1	4.7	100	2.0	4.5	4.5	4.3	0
AC00206-2W	WR	6.7	4.2	100	2.3	3.6	4.3	3.7	4
AF4648-2	Hig	7.1	3.7	100	2.0	4.7	4.5	4.7	0
Atlantic(Oregon)	WR	6.3	4.3	100	2.0	4.0	4.5	4.0	0
AC05153-1W	WR	6.4	3.9	100	2.0	4.0	3.9	3.8	4
NY148	Hig	10.3	2.7	100	2.0	4.5	4.5	4.5	0
CO07070-10W	SW	8.6	2.8	100	2.0	4.0	4.0	4.0	9
MSK061-4	Hig	5.5	4.0	100	2.0	4.5	4.7	4.5	0
AC03433-1W	WR	4.2	4.4	100	2.0	3.6	4.5	3.7	8
AF0338-17	Hig	3.1	6.1	92	2.0	3.5	4.5	3.8	11
Kea	Hig	8.0	2.0	100	2.0	4.8	4.8	4.7	3
Baltic Cream	Hig	5.5	1.2	100	2.0	4.8	4.0	4.7	0
Average		7.3	3.8	100	2.0	4.3	4.3	4.3	4
L.S.D. (.05)									

<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 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 19 entries in the Western and Southwestern Regional Chip 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
ATLANTIC(CSS)	Hig	1.0	3.0	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	23	0	0	75
AF4157-6	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
CO07070-13W	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
Snowden	WR	1.0	3.0	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	30	0	0	0
NY138	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
AC03452-2W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
OR09256-2	WR	1.0	2.0	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BNC182-5	Hig	3.0	4.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC00206-2W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	23	0	0	8
AF4648-2	Hig	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Atlantic(Oregon)	WR	1.0	2.5	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	45	0	0	35
AC05153-1W	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
NY148	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
CO07070-10W	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
MSK061-4	Hig	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	4	0	0	10
AC03433-1W	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
AF0338-17	Hig	1.0	3.0	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Kea	Hig	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Baltic Cream	Hig	2.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.3	2.5	1.2	3.9	1.2	5.0	5.0	5.0	5.0	5.0	7	0	0	7
L.S.D. (.05)															

<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 1e. Notes and general rating for all reps of 19 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Notes Grading	General Rating Grading
ATLANTIC(CSS)	Hig	yields+, internals brownspot, , nice shape, poor internals,	3.8, 3.9, 3.8, 3.8
AF4157-6	Hig	, very nice, , nice uniform, BOT-	4, 4, 4, 4
CO07070-13W	SW	yield++, B's, nice, , smooth, nice shape,	4.2, 3.9, 3.8, 3.9
Snowden	WR	nice size, browncenter, hollow heart, ,	3.8, 3.8, 3.8, 3.8
NY138	Hig	, BOT++, very nice size, ,	4.5, 4, 4, 4.5
AC03452-2W	WR	, , rough,	3.3, 3.5, 3.6, 3.6
OR09256-2	WR	BOT, nice size, , , small, nice flesh	4, 4, 4, 3.8
BNC182-5	Hig	too oblong, drop, poor shape, nice flesh, , light set, large tubers, yellow flesh	2, 2, 2, 2
AC00206-2W	WR	uniform, internal brownspot, nice shape, poor internals, ,	4, 3.8, 3.8, 3.8
AF4648-2	Hig	, uniform, nice shape, smooth, ,	3.8, 3.8, 3.8, 3.8
Atlantic(Oregon)	WR	yield+, hollow heart, nice shape, poor internals,	3.8, 3.8, 4, 3.8
AC05153-1W	WR	, , uniform, some flat,	3.5, 3.5, 3.5, 3.7
NY148	Hig	, , nice smooth skin, uniform,	4, 4, 3.8, 3.8
CO07070-10W	SW	, uniform, nice, small all B's, ,	3.8, 3.8, 3.8, 3.8
MSK061-4	Hig	poor internals, smooth skin, ,	3.8, 4, 3.9, 4
AC03433-1W	WR	nice, , , light set, nice shape	3.7, 3.6, 3.7, 3.5
AF0338-17	Hig	poor shape, , ,	2.5, 2.5, 2.5, 2.5
Kea	Hig	, , B's, nice yellow flesh,	3.3, 3, 3.3, 3
Baltic Cream	Hig	, , low yield, nice yellow flesh, very small, B's+++	3, 3, 3, 3

Dalhart  
Table 1f. 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 19 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Gravity	% Solids	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect
ATLANTIC(CSS)	Hig	1.076	16.0	1	7/13	1gh, drop	5%
AF4157-6	Hig	1.078	16.5	1	12/8	keep-	5%
CO07070-13W	SW	1.078	16.4	1	13/6	keep	5%
Snowden	WR	1.068	14.6	1	16/5	keep	5%
NY138	Hig	1.069	14.8	2	13/7	keep	5%
AC03452-2W	WR	1.057	12.6	1	9/11	keep -	5%
OR09256-2	WR	1.073	15.5	1	6/15	3IBS, 7IM, drop	5%
BNC182-5	Hig	1.064	13.9	3	15/6	3IM, Yellow, Keep-	5%
AC00206-2W	WR	1.076	16.1	1	15/3	keep	6%
AF4648-2	Hig	1.076	16.0	1	12/7	1HH, Drop, Shape-	5%
Atlantic(Oregon)	WR	1.079	16.6	2	3/16		5%
AC05153-1W	WR	1.079	16.5	1	5/16	drop	5%
NY148	Hig	1.074	15.7	1	7/12	2gh, drop	5%
CO07070-10W	SW	1.088	18.2	3	8/9	3im drop	6%
MSK061-4	Hig	1.071	15.1	1	10/10	keep-	5%
AC03433-1W	WR	1.074	15.6	1	8/12	1gh, 1 im, drop	5%
AF0338-17	Hig	1.072	15.4	2	6/17	1HH, Drop, Shape-	4%
Kea	Hig	1.076	16.1	3	8/12	1gh, yellow, drop	5%
Baltic Cream	Hig	1.073	15.5	2	2/18	3im, drop	5%

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-seven entries, including the check varieties Ranger Russet, Russet Burbank, and Russet Norkotah.

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

- ATX91137-1Ru and TX08352-5Ru received high general ratings and best of trial designations (Tables 2a and 2e).
- TX08352-5Ru had the highest total yield, marketable yield and 10-18 oz. tubers (Table 2a).
- POR06V12-3 had the highest yield of less than 4 oz. tubers. Russet Burbank had the highest yield of culls/No.2 tubers (Table 2a).
- OR05039-4 had the highest percentage of marketable yield (Table 2b).
- POR06V12-3 had the highest percentage of less than 4 oz. tubers. Russet Burbank had the highest percentage of culls/No. 2 tubers (Table 2b).
- AOR06070-1KF, OR05039-4, and CO05068-1RU had the highest specific gravity (Table 2b).
- ATX91137-1Ru, POR06V12-3, A06914-3CR, Shepody, A06084-1TE, A03141-6, OR05039-4, AO01114-4, and CO05068-1RU were the latest maturing entries, while AC05039-2RU was the earliest maturing entry (Table 2c).
- POR06V12-3 had the highest percentage of hollow heart (Table 2d).

### Comments on entries:

- |                      |             |   |
|----------------------|-------------|---|
| • TX08352-5Ru        | Long Russet | blocky, fat tubers, nice shape, BOT+  |
| • Russet Norkotah278 | Long Russet | some curved, long, oversized, many culls, some pointed, yield++               |
| • Russet Norkotah    | Long Russet | too long, rough, oversized, curved, many culls, skinny                        |
| • ATX91137-1Ru       | Long Russet | yield+, raised eyes, oversized, some culls, blocky, nice skin and shape, BOT+ |
| • CO05110-6RU        | Long Russet | nice skin and shape, blocky, some oversized, hollow heart                     |
| • POR06V12-3         | Long Russet | smooth nice shape, hollow heart++   |
| • A06914-3CR         | Long Russet | smooth, skinny, small, pointed  |
| • CO07049-1RU        | Long Russet | heavy set, blocky, pointed, nice shape, small,                                |

- Shepody Long Russet many culls, oversized
- A06084-1TE Long Russet curved, skinny, hollow heart, pointed, heavy set
- CO07015-4RU Long Russet rough, small blocky, nice shape
- Russet Burbank Long Russet small, heavy set, skinny, rough, many culls
- COTX09022-3RuRE/Y Long Russet red eyes, growth cracks, hollow heart, nice fat tubers, stem end discoloration
- AOR06070-1KF Long Russet too long, pointed, poor shape
- Russet Norkotah296 Long Russet some curved, oversized, some pointed, yield+
- AO03123-2 Long Russet too long, light skin, pointed, raised eyes, skinny
- CO05175-1RU Long Russet some pointed, skinny
- AC05039-2RU Long Russet rough, hollow heart, small, poor shape, DROP
- COTX09052-2Ru Long Russet small, smooth skin, long, heavy set, skinny, pointed
- A03141-6 Long Russet too long, rough oversized
- Ranger Russet Long Russet skinny pointed, deep eyes, small
- OR05039-4 Long Russet light skin color, skinny, some pointed,
- AO01114-4 Long Russet deep eyes
- A06021-1T Long Russet some blocky
- CO05068-1RU Long Russet blocky, nice skin, deep eyes, poor shape
- A06862-18VR Oblong Russet smooth skin, deep eyes
- A03921-2 Oblong Russet light net, light set, nice shape

Summary:

Overall, ATX91137-1Ru and TX08352-5Ru 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 27 entries in the Western and Southwestern Regional Russet 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
TX08352-5Ru	WR	628.1	495.3	65.2	220.7	209.4	27.5	40.3	65.2	4.0
Russet Norkotah 278	TX-CO	527.7	341.3	99.7	135.6	106.0	25.6	41.9	118.8	3.4
Russet Norkotah	WR	512.8	287.3	130.5	101.2	55.6	22.0	47.6	155.9	2.9
ATX91137-1RU	TX-CO	506.1	388.0	118.1	157.4	112.6	0.0	73.9	44.1	3.9
CO05110-6RU	WR	498.6	368.6	86.2	155.9	126.5	22.5	43.0	64.4	3.4
POR06V12-3	WR	489.2	214.9	89.3	82.4	43.2	0.0	250.4	24.0	3.6
A06914-3CR	WR	480.3	291.9	82.2	127.6	82.2	0.0	73.2	115.1	3.5
CO07049-1RU	SW	461.6	300.2	159.2	106.5	34.4	0.0	134.3	27.1	3.6
Shepody	WR	455.0	221.6	88.8	70.5	62.4	0.0	74.7	158.7	2.5
A06084-1TE	WR	455.0	233.9	79.8	94.1	60.0	0.0	58.6	162.5	2.2
CO07015-4RU	SW	450.1	319.6	170.2	111.3	38.1	0.0	97.0	33.5	3.2
Russet Burbank	WR	434.0	157.2	87.7	43.2	26.4	0.0	29.3	247.5	1.7
COTX09022-3RuRE/Y	WR	427.2	269.0	110.2	94.8	64.1	0.0	74.7	83.5	3.4
AOR06070-1KF	WR	419.9	291.0	126.5	84.2	80.3	9.5	54.0	65.3	2.9
Russet Norkotah 296	TX-CO	388.9	267.4	67.0	123.4	77.1	11.0	45.0	65.5	3.5
AO03123-2	WR	375.8	230.4	110.7	52.5	67.2	5.5	47.4	92.4	2.7
CO05175-1RU	WR	373.0	241.0	94.4	96.1	50.5	0.0	54.2	77.8	2.9
AC05039-2RU	WR	371.5	236.8	107.1	83.5	46.3	0.0	49.1	85.7	2.2
COTX09052-2Ru	WR	363.9	267.6	110.9	89.0	67.7	22.0	54.7	19.6	3.4
A03141-6	WR	360.2	203.7	64.2	78.2	61.3	10.6	32.2	113.7	2.2
Ranger Russet	WR	358.0	219.1	112.0	69.0	38.1	0.0	51.2	87.7	2.3
OR05039-4	WR	355.3	303.1	126.5	117.1	59.5	0.0	22.9	29.3	2.7
AO01114-4	WR	354.0	259.7	117.7	90.6	51.4	19.0	44.7	30.6	3.4
A06021-1T	WR	349.6	235.4	57.1	96.3	82.0	0.0	49.8	64.4	3.0
CO05068-1RU	WR	341.2	257.5	117.7	94.8	45.0	2.6	50.0	31.1	2.7
A06862-18VR	WR	306.9	207.2	124.8	36.2	46.1	0.0	63.7	36.1	3.5
A03921-2	WR	240.7	137.3	32.0	59.3	45.9	0.0	29.5	73.9	2.8
Average		429.5	276.1	103.2	103.0	69.9	7.1	63.8	82.5	3.0
L.S.D. (.05)										

<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 27 entries in the Western and Southwestern Regional Russet 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				
TX08352-5Ru	WR	78.8	10.4	35.1	33.3	4.4	6.4	10.4	1.054	12.1	Long	Russet
Russet Norkotah 278	TX-CO	64.7	18.9	25.7	20.1	4.9	7.9	22.5	1.066	14.3	Long	Russet
Russet Norkotah	WR	56.0	25.4	19.7	10.8	4.3	9.3	30.4	1.069	14.8	Long	Russet
ATX91137-1RU	TX-CO	76.7	23.3	31.1	22.2	0.0	14.6	8.7	1.071	15.1	Long	Russet
CO05110-6RU	WR	73.9	17.3	31.3	25.4	4.5	8.6	12.9	1.078	16.5	Long	Russet
POR06V12-3	WR	43.9	18.3	16.8	8.8	0.0	51.2	4.9	1.077	16.2	Long	Russet
A06914-3CR	WR	60.8	15.8	26.6	17.1	0.0	15.2	24.0	1.074	15.7	Long	Russet
CO07049-1RU	SW	65.0	34.5	23.1	7.5	0.0	29.1	5.9	1.068	14.7	Long	Russet
Shepody	WR	48.7	19.5	15.5	13.7	0.0	16.4	34.9	1.074	15.8	Long	Russet
A06084-1TE	WR	51.4	17.5	20.7	13.2	0.0	12.9	35.7	1.074	15.8	Long	Russet
CO07015-4RU	SW	71.0	37.8	24.7	8.5	0.0	21.6	7.4	1.070	15.1	Long	Russet
Russet Burbank	WR	36.2	20.2	10.0	6.1	0.0	6.7	57.0	1.065	14.2	Long	Russet
COTX09022-3RuRE/Y	WR	63.0	25.8	22.2	15.0	0.0	17.5	19.5	1.075	15.9	Long	Russet
AOR06070-1KF	WR	69.3	30.1	20.1	19.1	2.3	12.9	15.6	1.083	17.3	Long	Russet
Russet Norkotah 296	TX-CO	68.8	17.2	31.7	19.8	0.6	11.6	16.8	1.055	12.4	Long	Russet
AO03123-2	WR	61.3	29.5	14.0	17.9	1.5	12.6	24.6	1.075	15.9	Long	Russet
CO05175-1RU	WR	64.6	25.3	25.8	13.5	0.0	14.5	20.9	1.071	15.2	Long	Russet
AC05039-2RU	WR	63.7	28.8	22.5	12.5	0.0	13.2	23.1	1.074	15.7	Long	Russet
COTX09052-2Ru	WR	73.5	30.5	24.4	18.6	6.0	15.0	5.4	1.066	14.3	Long	Russet
A03141-6	WR	56.6	17.8	21.7	17.0	2.9	8.9	31.6	1.078	16.4	Long	Russet
Ranger Russet	WR	61.2	31.3	19.3	10.6	0.0	14.3	24.5	1.077	16.3	Long	Russet
OR05039-4	WR	85.3	35.6	33.0	16.7	0.0	6.4	8.2	1.081	16.9	Long	Russet
AO01114-4	WR	73.4	33.2	25.6	14.5	5.4	12.6	8.6	1.071	15.2	Long	Russet
A06021-1T	WR	67.3	16.3	27.5	23.5	0.0	14.2	18.4	1.074	15.6	Long	Russet
CO05068-1RU	WR	75.5	34.5	27.8	13.2	0.8	14.6	9.1	1.084	17.6	Oblong	Russet
A06862-18VR	WR	67.5	40.7	11.8	15.0	0.0	20.8	11.7	1.079	16.6	Oblong	Russet
A03921-2	WR	57.0	13.3	24.6	19.1	0.0	12.2	30.7	1.094	19.3	Oblong	Russet
Average L.S.D. (.05)		64.4	24.6	23.8	15.9	1.5	14.7	19.2	1.072	15.4		

Dalhart  
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 27 entries in the Western and Southwestern Regional Russet 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>	
TX08352-5Ru	WR	6.4	7.2	100	2.0	4.0	3.6	3.9	71
Russet Norkotah 278	TX-CO	5.9	6.5	100	2.0	4.4	3.7	4.3	51
Russet Norkotah	WR	6.9	5.4	100	2.0	4.0	3.7	3.9	48
ATX91137-1RU	TX-CO	6.4	5.8	100	2.0	4.5	4.5	4.5	18
CO05110-6RU	WR	5.7	6.5	100	2.0	3.3	3.9	3.8	33
POR06V12-3	WR	4.4	8.5	100	2.0	4.5	4.5	4.5	15
A06914-3CR	WR	6.5	5.4	100	2.0	4.7	4.5	4.7	14
CO07049-1RU	SW	9.4	3.6	100	2.0	4.0	4.0	4.0	59
Shepody	WR	6.8	5.0	100	2.0	4.5	4.5	4.5	25
A06084-1TE	WR	6.3	5.2	100	2.0	4.5	4.5	4.2	23
CO07015-4RU	SW	7.4	4.4	100	2.0	3.8	3.7	3.8	71
Russet Burbank	WR	7.0	4.5	100	2.0	3.9	3.6	4.0	45
COTX09022-3RuRE/Y	WR	6.2	5.0	100	2.0	4.1	4.2	3.8	48
AOR06070-1KF	WR	5.8	5.3	100	2.0	4.2	3.9	3.9	28
Russet Norkotah 296	TX-CO	4.4	6.5	100	2.0	4.5	3.9	4.5	33
AO03123-2	WR	5.4	5.1	100	2.0	3.9	4.0	4.0	8
CO05175-1RU	WR	5.1	5.3	100	2.0	3.8	4.2	3.8	2
AC05039-2RU	WR	5.6	4.9	100	2.0	3.5	3.4	3.3	80
COTX09052-2Ru	WR	5.2	5.1	100	2.0	4.2	4.3	4.1	61
A03141-6	WR	4.3	6.1	100	2.0	4.5	4.5	4.5	0
Ranger Russet	WR	6.1	4.3	100	2.0	4.0	3.9	3.8	40
OR05039-4	WR	4.7	5.4	100	2.0	4.5	4.6	4.2	8
AO01114-4	WR	4.6	5.6	100	2.0	4.2	4.5	4.3	26
A06021-1T	WR	4.6	5.6	100	2.0	4.5	4.0	4.5	63
CO05068-1RU	WR	5.3	4.8	100	2.0	4.5	4.5	4.5	9
A06862-18VR	WR	5.5	4.1	100	2.0	4.2	3.9	4.1	0
A03921-2	WR	3.0	5.9	100	2.0	4.5	4.2	4.7	10
Average		5.9	5.5	100	2.0	4.2	4.1	4.1	35
L.S.D. (.05)									

<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 27 entries in the Western and Southwestern Regional Russet 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
TX08352-5Ru	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah 278	TX-CO	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	8	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	10	0	0	0
ATX91137-1RU	TX-CO	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05110-6RU	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	7	0	0	0
POR06V12-3	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	53	0	0	0
A06914-3CR	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO07049-1RU	SW	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Shepody	WR	1.0	4.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A06084-1TE	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	20	0	0	0
CO07015-4RU	SW	1.0	4.0	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	3.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09022-3RuRE/Y	WR	3.5	4.0	3.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	13	0	0	0
AOR06070-1KF	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah 296	TX-CO	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
AO03123-2	WR	1.0	4.5	4.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
CO05175-1RU	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC05039-2RU	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	17	0	0	0
COTX09052-2Ru	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
A03141-6	WR	1.0	4.5	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	4.0	4.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
OR05039-4	WR	1.0	4.0	4.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AO01114-4	WR	1.0	4.0	4.0	2.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A06021-1T	WR	1.0	4.0	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	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
A06862-18VR	WR	1.0	3.0	3.5	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A03921-2	WR	1.0	4.0	4.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.1	4.0	3.8	3.8	3.8	5.0	5.0	5.0	5.0	5.0	5	0	0	0
L.S.D. (.05)															

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

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

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

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

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

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

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

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

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

<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 27 entries in the Western and Southwestern Regional  
Russet Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Notes Grading	General Rating Grading
TX08352-5Ru	WR	, blocky, fat tubers, BOT+, nice shape, some curved, long , oversized, many culls, some	4, 4, 4, 4
Russet Norkotah 278	TX-CO	pointed, yield++	3, 3.5, 3.5, 3.5
Russet Norkotah	WR	too long, rough, oversized, curved, many culls, skinny yield+, raised eyes, , oversized, some culls, BOT+,	2.9, 3, 2.5, 3
ATX91137-1RU	TX-CO	blocky, nice skin and shape	3.8, 4, 4, 3.8
CO05110-6RU	WR	, , nice skin and shape, blocky, some oversized, hollow heart	3.2, 3.4, 3.8, 3.2
POR06V12-3	WR	smooth nice shape, , , hollow heat++	3.8, 3.6, 3.5, 3.6
A06914-3CR	WR	, , smooth, skinny, small, pointed	3.5, 3.5, 3.6, 3.5
CO07049-1RU	SW	heavy set, blocky, pointed, , nice shape, small,	3.8, 3.6, 3.6, 3.4
Shepody	WR	many culls, oversized, many culls, ,	2.5, 2.5, 2.5, 2.5
A06084-1TE	WR	curved, skinny, hollow heart, , pointed, heavy set,	2, 2, 2.3, 2.3
CO07015-4RU	SW	rough, , small blocky, small, nice shape	3.1, 3.3, 3, 3.3
Russet Burbank	WR	small, heavy set, culls, , skinny, rough, many culls red eyes, growth cracks, hollow heart, nice fat tubers,	1.5, 1.7, 2, 1.5
COTX09022-3RuRE/Y	WR	stem end discoloration,	3.3, 3.5, 3.3, 3.3
AOR06070-1KF	WR	too long, , , pointed, poor shape	3, 2.9, 2.6, 3
Russet Norkotah 296	TX-CO	some curved, , oversized, some pointed, yield+,	3.7, 3.5, 3.5, 3.4
AO03123-2	WR	too long, light skin, pointed, raised eyes, , skinny	3, 2.5, 2.7, 2.5
CO05175-1RU	WR	, some pointed, , skinny	3, 3.2, 2.9, 2.5
AC05039-2RU	WR	, , rough, hollow heart, drop, small poor shape	2.5, 2.2, 2, 2
COTX09052-2Ru	WR	small, smooth skin, long, heavy set, skinny, pointed	3.6, 3.8, 3.6, 2.5
A03141-6	WR	too long, , , rough oversized	2.2, 2.2, 2.3, 2
Ranger Russet	WR	, skinny pointed, , deep eyes, small	2.5, 2.5, 2.3, 2
OR05039-4	WR	light skin color, , skinny, some pointed,	2.8, 2.7, 2.5, 2.7
AO01114-4	WR	, , , deep eyes	3.5, 3.4, 3.5, 3.3
A06021-1T	WR	, , some blocky,	2.8, 2.8, 3.2, 3.2
CO05068-1RU	WR	blocky, , nice skin, deep eyes, poor shape	3.2, 2.7, 2.8, 2
A06862-18VR	WR	smooth ski, deep eyes, , ,	3.5, 3.5, 3.5, 3.5
A03921-2	WR	light net, , , light set, nice shape	3, 2.5, 2.8, 3

## Western Regional and Texas Advanced Red Trial, Dalhart

This trial consisted of six entries, including the check varieties Red LaSoda and Chieftain.

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

- ATTX98453-6R had the highest general rating and best of trial designation, while NDTX5438-11R also received a high general rating (Table 3a and 3e).
- ATTX98453-6R had the highest total, and marketable yield, while NDA050237B-1R had the highest yield of less than 4 oz. tubers (Table 3b).
- ATTX98453-6R had the highest yield of 4-6 oz. tubers. CO07102-1R and Red LaSoda had the highest yield of culls/No. 2 tubers (Table 3a).
- ATTX98453-6R had the highest percentage of marketable yield (Table 3b).
- NDA050237B-1R had the highest percentage of less than 4 oz. tubers (Table 3b).
- CO07102-1R had the highest specific gravity (Table 3b).
- ATTX98453-6R had the highest average number of tubers per plant (Table 3c).
- All the entries were late in maturity (Table 3c).
- Red LaSoda had the deepest eyes, while Chieftain had the highest percentage of internal brownspot (Table 3d).

### Comments on entries:

- |                 |            |   |
|-----------------|------------|---|
| • ATTX98453-6R  | Oblong Red | nice skin, yield+, BOT                                |
| • Red LaSoda    | Oblong Red | light skin, deep eyes                                 |
| • Chieftain     | Oblong Red | poor internals++, light skin, IBS++                   |
| • NDTX5438-11R  | Round Red  | smooth, nice shape                                    |
| • CO07102-1R    | Oblong Red | feathering, smooth skin, nice skin, rough,            |
| • NDA050237B-1R | Round Red  | dark skin color, heat sprouts++, nice skin, low yield |

### Summary:

Overall, ATTX98453-6R and NDTX5438-11R 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 6 entries in the Western and Southwestern Regional Red 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				
ATX98453-6R	TX-CO	416.0	342.3	104.7	131.6	106.0	8.6	58.6	6.6	4.1
Red LaSoda	WR	350.3	274.4	90.8	112.0	71.6	0.0	51.2	24.7	3.5
Chieftan	WR	304.2	244.9	76.5	121.5	46.9	0.0	37.9	21.4	3.3
NDTX5438-11R	TX-CO	293.0	236.1	96.3	109.6	30.2	0.0	45.9	11.0	3.7
CO07102-1R	SW	280.6	203.9	101.0	77.6	25.3	0.0	48.3	28.4	3.0
NDA050237B-1R	WR	215.4	144.8	71.0	73.8	0.0	0.0	59.8	10.8	2.8
Average		309.9	241.0	90.0	104.4	46.6	1.4	50.3	17.1	3.4
L.S.D. (.05)										

<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 6 entries in the Western and Southwestern Regional Red 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				
ATX98453-6R	TX-CO	82.3	25.2	31.6	25.5	2.1	14.1	1.6	1.056	12.5	Oblong	Red
Red LaSoda	WR	78.3	25.9	32.0	20.4	0.0	14.6	7.1	1.052	11.7	Oblong	Red
Chieftan	WR	80.5	25.2	40.0	15.4	0.0	12.5	7.0	1.055	12.4	Oblong	Red
NDTX5438-11R	TX-CO	80.6	32.9	37.4	10.3	0.0	15.7	3.7	1.047	11.0	Round	Red
CO07102-1R	SW	72.7	36.0	27.7	9.0	0.0	17.2	10.1	1.059	13.1	Oblong	Red
NDA050237B-1R	WR	67.2	33.0	34.2	0.0	0.0	27.8	5.0	1.042	10.0	Round	Red
Average L.S.D. (.05)		76.9	29.7	33.8	13.4	0.3	17.0	5.8	1.052	11.8		

Dalhart  
Table 3c.

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 Western and Southwestern Regional Red 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>	
ATTX98453-6R	TX-CO	6.1	5.0	100	2.0	4.5	4.3	4.5	14
Red LaSoda	WR	5.7	4.5	100	2.0	4.7	4.8	4.7	2
Chieftan	WR	5.0	4.5	100	2.0	4.0	4.3	3.9	26
NDTX5438-11R	TX-CO	5.8	3.9	96	2.0	3.9	4.3	3.8	13
CO07102-1R	SW	5.5	3.7	100	2.0	3.9	4.0	3.8	17
NDA050237B-1R	WR	5.3	3.0	100	2.0	4.5	4.5	4.5	0
Average		5.6	4.1	99	2.0	4.2	4.3	4.2	12
L.S.D. (.05)									

<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 6 entries in the Western and Southwestern Regional Red 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
ATTX98453-6R	TX-CO	1.0	3.0	1.0	4.0	4.0	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	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Chieftan	WR	1.0	3.0	1.0	3.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	43
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
CO07102-1R	SW	1.0	3.0	1.0	3.3	4.0	5.0	5.0	5.0	5.0	3.0	0	0	0	0
NDA050237B-1R	WR	1.0	2.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	2.7	1.0	3.5	3.8	5.0	5.0	5.0	5.0	4.7	0	0	0	7
L.S.D. (.05)															

<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 6 entries in the Western and Southwestern Regional Red  
Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Notes Grading	General Rating Grading
ATTX98453-6R	TX-CO	, nice skin, yield+, BOT, ,	4.5, 4, 4, 3.8
Red LaSoda	WR	light skin, deep eyes, , ,	3.5, 3.5, 3.5, 3.5
Chieftan	WR	, poor internals++, , light skin, IBS++	3.3, 3.3, 3.3, 3.3
NDTX5438-11R	TX-CO	, , , smooth, nice shape	3.8, 3.8, 3.6, 3.5
CO07102-1R	SW	feathering, smooth skin, , nice skin, rough,	3.2, 3, 3, 2.7
NDA050237B-1R	WR	, dark skin color, heat sprouts++, , nice skin, low yield	2.8, 2.8, 2.8, 2.8

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

This trial consisted of nine entries.

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

- ATTX98444S-16R/Y, COA07365-4RY, and ATTX98514-1R/Y received high general ratings (Table 4a).
- ATTX00289-5R/Y had the highest total and marketable yield (Table 4a).
- CO05037-2R/Y had the highest yield of less than 4 oz. tubers, while ATTX00289-5R/Y had the highest yield of 6-10 oz. and 10-18 oz. tubers (Table 4a).
- CO04021-2R/Y had the highest yield of culls/No. 2 tubers (Table 4a).
- ATTX00289-5R/Y had the highest percentage of marketable yield. CO05037-2R/Y had the highest percentage of less than 4 oz. tubers (Table 4b).
- CO04021-2R/Y had the highest percentage of culls/No. 2 tubers (Table 4b).
- BTX2103-1R/Y had the highest average number of tubers per plant (Table 4c).
- ATTX00289-5R/Y, AC05175-3P/Y, ATTX98444S-16R/Y, COA07365-4RY, and CO04021-2R/Y were the latest maturing entries, while CO05037-2R/Y and ATTX98514-1R/Y were the earliest maturing entries (Table 4c).
- AC05175-3P/Y, CO05037-2R/Y, COA07365-4RY, ATTX98514-1R/Y, and CO04021-2R/Y had the darkest yellow flesh color (Table 4d).

### Comments on entries:

- ATTX00289-5R/Y Oblong Red some mixed, deep eyes, rough, very early, oversized, heat sprouts, many culls, FC=2.5
- AC05175-3P/Y Round Purple deep eyes, silver scurf, FC=3.5
- ATTX98444S-16R/Y Round Red nice small potato, uniform, FC=3.0
- A05180-3PY Round Purple silver scurf, light flesh, faded skin color, DROP, FC=2.5
- CO05037-2R/Y Long Red nice flesh, fingerling, long skinny, no curve, FC=3.5
- COA07365-4RY Round Red nice shape, smooth, FC=3.5
- ATTX98514-1R/Y Oblong Red nice flesh and skin, smooth, light skin, FC=3.5
- CO04021-2R/Y Oblong Red rough, poor shape, DROP+, FC=3.5

- BTX2103-1R/Y Oblong Red light set, light skin, DROP, FC=2.5  
<sup>1</sup>FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

ATTX98444S-16R/Y, COA07365-4RY, and ATTX98514-1R/Y were the outstanding entries 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 9 entries in the Western and Southwestern Regional Red/Yellow 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				
ATTX00289-5R/Y	TX-CO	461.2	414.0	105.1	171.1	137.8	0.0	31.1	16.1	3.5
AC05175-3P/Y	WR	413.1	285.9	166.6	116.0	3.3	0.0	116.4	10.8	3.3
ATTX98444S-16R/Y	TX-CO	275.8	81.8	72.1	9.7	0.0	0.0	180.5	13.5	3.8
A05180-3PY	WR	275.8	185.8	119.9	65.9	0.0	0.0	80.7	9.3	3.1
CO05037-2R/Y	WR	267.2	35.1	35.1	0.0	0.0	0.0	229.1	2.9	3.1
COA07365-4RY	WR	248.0	154.1	106.7	47.4	0.0	0.0	82.0	11.9	3.7
ATTX98514-1R/Y	WR	218.2	158.9	79.4	61.1	18.3	0.0	39.9	19.4	3.7
CO04021-2R/Y	WR	197.9	85.8	60.6	20.3	4.9	0.0	47.0	65.0	2.0
BTX2103-1R/Y	TX-CO	173.9	107.3	63.9	40.3	3.1	0.0	48.5	18.1	3.0
Average		281.2	167.6	89.9	59.1	18.6	0.0	95.0	18.6	3.2
L.S.D. (.05)										

<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 9 entries in the Western and Southwestern Regional Red/Yellow 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				
ATTX00289-5R/Y	TX-CO	89.8	22.8	37.1	29.9	0.0	6.7	3.5	1.045	10.5	Oblong	Red
AC05175-3P/Y	WR	69.2	40.3	28.1	0.8	0.0	28.2	2.6	1.055	12.3	Round	Purple
ATTX98444S-16R/Y	TX-CO	29.7	26.1	3.5	0.0	0.0	65.4	4.9	1.066	14.2	Round	Red
A05180-3PY	WR	67.4	43.5	23.9	0.0	0.0	29.3	3.4	1.052	11.7	Round	Purple
CO05037-2R/Y	WR	13.2	13.2	0.0	0.0	0.0	85.8	1.1	1.066	14.3	Long	Red
COA07365-4RY	WR	62.1	43.0	19.1	0.0	0.0	33.1	4.8	1.061	13.4	Round	Red
ATTX98514-1R/Y	WR	72.8	25.8	28.0	8.4	0.0	18.3	8.9	1.051	11.6	Oblong	Red
CO04021-2R/Y	WR	43.4	30.6	10.3	2.5	0.0	23.8	32.8	1.053	12.0	Oblong	Red
BTX2103-1R/Y	TX-CO	61.7	36.7	23.2	1.8	0.0	27.9	10.4	1.055	12.3	Oblong	Red
Average L.S.D. (.05)		56.6	31.3	19.2	4.8	0.0	35.4	8.0	1.056	12.5		

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 9 entries in the Western and Southwestern Regional Red/Yellow 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>	
ATTX00289-5R/Y	TX-CO	5.9	5.8	100	2.0	4.5	4.5	4.5	6
AC05175-3P/Y	WR	10.8	2.8	100	2.0	4.5	4.5	4.5	29
ATTX98444S-16R/Y	TX-CO	11.2	1.8	100	2.0	4.6	4.6	4.2	0
A05180-3PY	WR	7.6	2.6	100	2.4	4.1	4.1	4.1	1
CO05037-2R/Y	WR	10.6	1.8	100	2.0	3.5	3.5	3.7	0
COA07365-4RY	WR	6.8	2.6	100	2.0	4.5	4.5	4.5	4
ATTX98514-1R/Y	WR	4.1	3.8	100	2.0	3.5	3.5	3.5	23
CO04021-2R/Y	WR	6.6	2.6	83	2.0	4.0	4.5	4.0	0
BTX2103-1R/Y	TX-CO	12.8	3.0	38	2.0	2.5	4.1	3.0	0
Average		8.5	3.0	91	2.0	4.0	4.2	4.0	7
L.S.D. (.05)									

<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 9 entries in the Western and Southwestern Regional Red/Yellow 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
ATTX00289-5R/Y	TX-CO	2.5	3.0	1.0	4.0	3.0	5.0	5.0	5.0	5.0	3.9	0	0	0	0
AC05175-3P/Y	WR	3.5	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98444S-16R/Y	TX-CO	3.0	2.0	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A05180-3PY	WR	2.5	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05037-2R/Y	WR	3.5	4.0	1.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COA07365-4RY	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
ATTX98514-1R/Y	WR	3.5	3.0	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO04021-2R/Y	WR	3.5	3.0	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX2103-1R/Y	TX-CO	2.5	3.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.1	2.7	1.0	4.0	3.8	5.0	5.0	5.0	5.0	4.9	0	0	0	0
L.S.D. (.05)															

<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 9 entries in the Western and Southwestern Regional  
Red/Yellow Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Notes Grading	General Rating Grading
ATTX00289-5R/Y	TX-CO	some mixed, deep eyes, rough, very early, oversized, heat sprouts, , many culls	3.5, 3.5, 3.5, 3.5
AC05175-3P/Y	WR	, , deep eyes, silver scurf,	3.8, 3.3, 3, 3
ATTX98444S-16R/Y	TX-CO	nice small potato, uniform, , ,	3.8, 3.8, 3.8, 3.8
A05180-3PY	WR	silver scurf, light flesh, drop, faded skin color,	3.5, 3, 3, 2.8
CO05037-2R/Y	WR	nice flesh, fingerling, long skinny, no curve, ,	3, 3, 3, 3.5
COA07365-4RY	WR	, , , nice shape, smooth	3.8, 3.5, 3.8, 3.8
ATTX98514-1R/Y	WR	nice flesh and skin, smooth, , light skin,	3.8, 3.8, 3.6, 3.6
CO04021-2R/Y	WR	, rough, drop+, , poor shape	2, 2, 2, 2
BTX2103-1R/Y	TX-CO	light set, light skin, drop, ,	3, 3, 3, 3

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

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

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

- Sierra Gold and ATX05202S-3W/Y had the highest general ratings and a best of trial designations, while NDA081451CB-1CY and Yukon Gold also had high general ratings (Table 5a and 5e).
- TXWL-1 produced the highest total and marketable yield, and had the highest yield of over 18 oz. tubers (Table 5a).
- NDA081451CB-1CY had the highest yield of less than 4 oz. tubers, while COTX03134-1W had the highest yield of culls/No. 2 tubers (Table 5a).
- Yukon Gold had the highest percentage of marketable yield, while CO07131-1W/Y had the highest percentage of less than 4 oz. tubers (Table 5b).
- COTX03134-1W had the highest percentage of culls/No. 2 tubers (Table 5b).
- COTX03134-1W had the highest specific gravity (Table 5b).
- NDA081451CB-1CY had the highest average number of tubers per plant (Table 5c).
- NDA081451CB-1CY, and CO07370-1W/Y were the latest maturing entries, while CO07131-1W/Y was the earliest maturing entry (Table 5c).
- CO05037-3W/Y, CO05035-1PW/Y, and CO07131-1W/Y had the darkest flesh color (Table 5d).

### Comments on entries:

- TXWL-1 Oblong White yield++, rough, red eyes, deep eyes, oversized, FC=1.0
- Sierra Gold Oblong Russet some greenheads, BOT, FC=3.0
- CO05037-3W/Y Oblong White greenhead, pointed, rough, poor shape, pear shaped, nice flesh, DROP, FC=3.5
- NDA081451CB-1CY Round White high set, greenhead, smooth, nice shape, small, uniform, nice, FC=3.0
- Yukon Gold Oblong White oversized, nice shape, FC=2.5
- CO05035-1PW/Y Long White greenhead, deep eyes, rough, very light purple skin, oversized, poor shape, FC=3.5
- A05182-7Y Oblong White high set, deep eyes, smooth, small, some rough, FC=3.0
- ATX05202S-3W/Y Round White smooth, uniform size, small, BOT, FC=3.0

- COTX03134-1W Long White high set, variable shape, small, white flesh, FC=1.0
- CO07370-1W/Y Round White poor shape, all very small, DROP, FC=3.0
- CO07131-1W/Y Round White all very small, very late, nice flesh, DROP, FC=3.5

<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  
Table 5a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 11 entries in the Western and Southwestern Regional White/Yellow 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				
TXWL-1	WR	422.4	328.7	113.7	119.9	95.2	39.7	37.2	16.8	3.0
Sierra Gold	WR	405.8	318.1	140.2	95.2	82.7	16.8	60.4	10.4	4.0
CO05037-3W/Y	WR	386.7	164.7	119.3	45.4	0.0	0.0	175.2	46.9	3.0
NDA081451CB-1CY	WR	386.5	83.1	62.2	20.9	0.0	0.0	282.6	20.9	3.7
Yukon Gold	WR	349.4	294.1	97.7	106.2	90.2	0.0	36.8	18.5	3.7
CO05035-1PW/Y	WR	332.9	251.3	111.5	79.8	60.0	2.2	42.8	36.6	2.0
A05182-7Y	WR	289.0	98.5	69.0	29.5	0.0	0.0	182.5	8.1	3.7
ATX05202S-3W/Y	WR	269.8	94.3	69.4	24.9	0.0	0.0	169.3	6.2	4.0
COTX03134-1W	WR	257.3	57.5	57.5	0.0	0.0	0.0	121.2	78.7	2.9
CO07370-1W/Y	SW	59.5	1.3	1.3	0.0	0.0	0.0	56.4	1.8	1.0
CO07131-1W/Y	SW	41.5	0.0	0.0	0.0	0.0	0.0	41.5	0.0	1.0
Average		291.0	153.8	76.5	47.4	29.8	5.3	109.6	22.3	2.9
L.S.D. (.05)										

<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 11 entries in the Western and Southwestern Regional White/Yellow 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				
TXWL-1	WR	77.8	26.9	28.4	22.5	9.4	8.8	4.0	1.055	12.3	Oblong	White
Sierra Gold	WR	78.4	34.6	23.5	20.4	4.1	14.9	2.6	1.065	14.0	Oblong	Russet
CO05037-3W/Y	WR	42.6	30.9	11.7	0.0	0.0	45.3	12.1	1.062	13.5	Oblong	White
NDA081451CB-1CY	WR	21.5	16.1	5.4	0.0	0.0	73.1	5.4	1.070	15.1	Round	White
Yukon Gold	WR	84.2	28.0	30.4	25.8	0.0	10.5	5.3	1.069	14.8	Oblong	White
CO05035-1PW/Y	WR	75.5	33.5	24.0	18.0	0.7	12.9	11.0	1.056	12.4	Long	White
A05182-7Y	WR	34.1	18.8	10.2	0.0	0.0	63.1	2.8	1.058	12.9	Oblong	White
ATX05202S-3W/Y	WR	34.9	25.7	9.2	0.0	0.0	62.8	2.3	1.058	12.8	Round	White
COTX03134-1W	WR	22.3	22.3	0.0	0.0	0.0	47.1	30.6	1.072	15.4	Long	White
CO07370-1W/Y	SW	2.2	2.2	0.0	0.0	0.0	94.8	3.1	ND	ND	Round	White
CO07131-1W/Y	SW	0.0	0.0	0.0	0.0	0.0	100.0	0.0	ND	ND	Round	White
Average L.S.D. (.05)		43.0	21.7	13.0	7.9	1.3	48.5	7.2	1.063	13.7		



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 11 entries in the Western and Southwestern Regional White/Yellow 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>	
TXWL-1	WR	5.9	5.3	100	2.0	5.0	4.5	5.0	3
Sierra Gold	WR	6.1	4.8	100	2.0	4.0	4.5	4.0	1
CO05037-3W/Y	WR	11.3	2.5	100	2.0	3.8	3.9	3.8	11
NDA081451CB-1CY	WR	13.5	2.2	100	2.0	4.8	4.9	4.6	0
Yukon Gold	WR	5.1	5.0	100	20.5	3.9	3.9	3.9	3
CO05035-1PW/Y	WR	5.4	4.5	100	2.0	4.5	4.5	4.5	1
A05182-7Y	WR	11.0	2.0	100	2.0	4.5	4.0	4.1	0
ATX05202S-3W/Y	WR	9.4	2.1	100	2.0	4.5	4.5	4.5	0
COTX03134-1W	WR	10.7	1.8	100	2.0	2.4	4.5	2.8	10
CO07370-1W/Y	SW	3.3	3.3	100	2.0	4.7	4.7	4.5	0
CO07131-1W/Y	SW	7.2	0.4	100	2.5	1.0	2.0	1.0	10
Average		8.1	3.1	100	3.7	3.9	4.2	3.9	4
L.S.D. (.05)									

<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 11 entries in the Western and Southwestern Regional White/Yellow 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
TXWL-1	WR	1.0	3.0	1.0	2.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Sierra Gold	WR	3.0	3.0	3.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05037-3W/Y	WR	3.5	1.8	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDA081451CB-1CY	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
Yukon Gold	WR	2.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05035-1PW/Y	WR	3.5	3.3	1.0	2.0	3.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
A05182-7Y	WR	3.0	2.5	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05202S-3W/Y	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
COTX03134-1W	WR	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO07370-1W/Y	SW	3.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO07131-1W/Y	SW	3.5	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.7	2.4	1.2	3.5	1.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 11 entries in the Western and Southwestern Regional  
White/Yellow Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Notes Grading	General Rating Grading
TXWL-1	WR	yield++, rough, , red eyes, deep eyes, oversized	3, 3, 3, 3
Sierra Gold	WR	, , BOT, some greenheads, greenhead, pointed, drop, rough, poor shape, pear shaped, nice flesh	4, 4, 4, 4
CO05037-3W/Y	WR	, high set, greenhead, smooth, nice shape, small, uniform, nice	3, 3, 3, 3
NDA081451CB-1CY	WR		3.8, 3.6, 3.8, 3.6
Yukon Gold	WR	, , , oversized, nice shape greenhead, deep eyes, rough, , , very light purple skin,	3.6, 3.7, 3.7, 3.7
CO05035-1PW/Y	WR	oversized, poor shape high set, deep eyes, smooth, small, , light set, some	2, 2, 2, 2
A05182-7Y	WR	rough	3.8, 3.6, 3.8, 3.6
ATX05202S-3W/Y	WR	smooth, , , uniform size, small, BOT	4, 4, 4, 4
COTX03134-1W	WR	, high set, variable shape, small, white flesh	3.3, 3.3, 2.5, 2.5
CO07370-1W/Y	SW	poor shape, , , all very small, Drop	1, 1, 1, 1
CO07131-1W/Y	SW	, , all very small, Drop, very late, nice flesh	1, 1, 1, 1

## Texas Advanced Chip Selection Trial, Dalhart

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

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

- TX12484-3W ZC and Waneta were the outstanding entries for this trial based on general rating and best of trial designation for tuber and chip quality, while AORTX09037-5W, TX12483-5W, AORTX09033-4W, AORTX09144-2W, and NDTX060700C-1W received best of trial designations for chip quality. NDTX102852CB-4Ru, NDTX102852CB-3Ru, and AORTX09037-4W received best of trial designation for tuber appearance (Tables 6a, 6e, and 6f).
- COTX10079-11W had the highest total yield, while TX12484-2W Z had the highest marketable yield. AORTX11476-2W had the highest yield of 4-6 oz. tubers (Table 6a).
- NDTX113030C-10W had the highest yield of less than 4 oz. tubers. TX12483-5W had the highest yield of culls/No. 2 tubers (Table 6a).
- TX12486-1W had the highest percentage of marketable yield. TX12479-13W had the highest percentage of 4-6 oz. tubers, while NDTX060700C-1W had the highest percentage of less than 4 oz. tubers (Table 6b).
- NDTX113467CB-1W and NDTX060700C-1W had the highest specific gravity (Table 6b).
- NDTX071109C-1W had the highest average number of tubers per plant (Table 6c).
- NDTX113467CB-1W, NDTX113037C-3W, COTX10079-11W, TX12484-2W ZC, NDTX102514ABC-5W, NDTX081648CB-1W, AORTX09037-1W, NDTX102852CB-3Ru, TX12483-5W, NDTX102796CbS-2W, TX12483-8W, TX12486-1W, AORTX09033-4W, TX12483-4W, Atlantic (Oregon), ATTX11484-3W, and TX12484-4W ZC were the latest maturing entries, while NDTX059828-2W, NDTX060700C-1W, and TX12479-13W were the earliest maturing entries (Table 6c).
- TX12483-5W and Atlantic (Oregon).had the highest percentage hollow heart (Table 8d).
- Atlantic had the highest percentage of internal brownspot (Table 6d).
- AORTX09144-2W, TX12479-1W, NDTX060700C-1W, Waneta, TX12483-5W, AORTX09033-4W, TX12483-6W, AORTX09037-4W, TX12484-3W ZC, WTX10666-8W, and TX12483-4W had over 90% good chips (Table 6f).

Comments on entries:

- COTX10079-11W Round White nice shape, very nice, CR=1
- TX12484-2W ZC Oblong White poor shape, deep eyes, CR=1
- TX12484-3W ZC Oblong White nice shape, BOT, CR=1
- TX12484-1W ZC Oblong White nice size, CR=1
- NDTX102514ABC-5W Round White nice size, poor internals, rough, CR=1
- AORTX11476-2W Oblong White smooth skin, nice flesh, CR=1
- NDTX071109C-1W Round White deep eyes, rough, nice flesh, DROP, CR=1
- NDTX081648CB-1W Round White nice size, CR=3
- WTX10666-8W Oblong White nice shape, smooth, CR=1
- AORTX09037-1W Round White smooth, light yellow flesh, nice shape, CR=3
- Waneta Oblong White yield+, BOT, CR=1
- AORTX09037-5W Round White uniform, nice shape, CR=1
- NDTX102852CB-4Ru Oblong Russet large tubers, nice shape, BOT+, CR=2
- NDTX113030C-3W Oblong White nice shape and size, CR=1
- NDTX102852CB-3Ru Round Russet large tubers, nice size, BOT, CR=2
- AORTX09033-11W Round White nice shape, CR=1
- TX12483-5W Oblong White rough, hollow heart, CR=1
- NDTX113029C-2W Round White small trial candidate, smooth, CR=1
- NDTX113467CB-1W Round White nice size and shape, CR=2
- NDTX102796CbS-2W Round White move to small trial, nice+, smooth, nice size, CR=1
- TX12483-8W Oblong White large tubers, nice size, CR=1
- TX12486-1W Round White nice shape, CR=2
- AORTX09033-4W Round White large tubers, hollow heart++, CR=1
- AORTX09033-14W Round White shape??. large tubers, CR=1
- NDTX102702C-1W Round White nice size, rough, CR=1
- NDTX102640Cb-1W Round White heavy set of B's, CR=2
- TX12483-4W Oblong White oversized, rough, light set, deep eyes, CR=2
- ATTX11476-11W Round White small, rough, CR=1
- AORTX10247-1W/Y Round White very small, small candidate, yellow flesh, CR=3
- Atlantic (Oregon) Oblong Buff yield+, hollow heart, nice shape, poor internals, CR=2
- AORTX09032-3W Oblong White rough, CR=2
- NDTX113037C-3W Round White smooth skin, some rough, bruise, CR=3
- AORTX09037-4W Round White uniform (NATCH candidate)., BOT-, CR=1

- AORTX09144-2W Round White nice skin, Smooth, CR=1
- TX12483-6W Round White small, CR=1
- APTX11484-3W Round White deep nose, rough, CR=1
- TX12484-4W ZC Oblong White very large tubers, oversized, CR=1
- WTX10646-2W Oblong White smooth, some rough, CR=1
- NDTX059828-2W Round White ZC Res, poor skin color, CR=1
- TX12479-1W Round White nice shape, CR=2
- TX12479-16W Round White nice size, CR=1
- NDTX113030C-10W Round White small, CR=1
- AORTX09037-3W Round White low yield, smooth, light yellow flesh, CR=3
- NDTX060700C-1W Round White B's, browncenter, too small++, poor internals, CR=1
- TX12479-13W Oblong White light set, poor flesh, CR=2

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

Summary:

TX12484-3W ZC and Waneta were the outstanding entries for this trial based on general ratings and best of trial designations for tuber and chip quality.

Dalhart  
Table 6a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 40 entries in the Texas Chip 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				
COTX10079-11W	TXCH	475.3	326.7	145.7	122.8	58.2	2.0	144.8	1.8	3.9
TX12484-2W ZC	TXCH (ZC)	470.7	418.0	202.4	164.7	50.9	7.7	45.0	0.0	3.0
TX12484-3W ZC	TXCH (ZC)	440.4	374.8	202.4	146.8	25.6	0.0	65.5	0.0	4.0
TX12484-1W ZC	TXCH (ZC)	439.3	380.3	198.0	146.8	35.5	0.0	58.9	0.0	3.7
NDTX102514ABC-5W	NATCH15	430.5	302.0	206.1	81.6	14.3	0.0	128.5	0.0	3.6
AORTX11476-2W	TXCH	427.5	294.3	219.6	74.7	0.0	0.0	133.2	0.0	3.6
NDTX071109C-1W	NATCH15	418.6	356.7	148.8	126.7	81.3	2.0	59.8	0.0	3.2
NDTX081648CB-1W	TXCH (ZC)	416.6	368.6	159.2	144.6	64.8	0.0	48.0	0.0	3.8
WTX10666-8W	TXCH	410.7	336.0	192.9	131.8	11.3	8.8	65.9	0.0	3.8
AORTX09037-1W	TXCH	409.1	298.1	171.3	117.7	9.2	0.0	110.9	0.0	3.8
Waneta	TXCH	400.8	329.4	123.2	142.8	63.5	0.0	71.4	0.0	4.5
AORTX09037-5W	TXCH	400.5	272.3	183.0	63.0	26.4	0.0	128.1	0.0	3.8
NDTX102852CB-4Ru	TXCH	390.9	362.4	79.8	175.2	107.4	0.0	28.6	0.0	4.0
NDTX113030C-3W	TXCH	382.9	315.2	175.7	81.6	57.8	0.0	67.7	0.0	3.7
NDTX102852CB-3Ru	TXCH	382.5	339.9	84.0	140.4	115.5	17.8	24.9	0.0	3.9
AORTX09033-11W	TXCH	381.8	289.9	192.5	86.8	10.6	0.0	91.9	0.0	3.7
TX12483-5W	TXCH	378.5	311.9	143.5	95.2	73.2	0.0	40.3	26.4	3.0
NDTX113029C-2W	TXCH	363.1	159.6	110.5	40.3	8.8	0.0	197.7	5.9	3.8
NDTX113467CB-1W	TXCH	351.4	229.7	177.2	51.2	1.3	0.0	121.7	0.0	3.8
NDTX102796CbS-2W	TXCH	344.1	279.5	193.5	60.6	25.4	0.0	64.6	0.0	4.0
TX12483-8W	TXCH	343.4	315.9	76.9	144.6	94.4	0.0	27.5	0.0	3.7
TX12486-1W	TXCH	342.6	326.5	80.5	124.5	121.5	0.0	16.1	0.0	3.0
AORTX09033-4W	TXCH	328.5	280.2	159.4	87.7	33.1	0.0	48.3	0.0	3.4
AORTX09033-14W	TXCH	328.0	213.0	103.2	46.9	63.0	0.0	114.9	0.0	3.4
NDTX102702C-1W	TXCH	327.2	284.8	66.3	121.7	96.8	0.0	42.5	0.0	3.3
NDTX102640Cb-1W	NATCH15	325.4	181.6	145.1	32.0	4.4	0.0	143.9	0.0	3.5
TX12483-4W	TXCH	319.4	287.7	84.2	123.2	80.3	0.0	31.7	0.0	3.3
ATTX11476-11W	TXCH	316.6	232.4	134.3	79.8	18.3	0.0	71.7	12.4	3.4
AORTX10247-1W/Y	TXCH	314.8	175.0	137.1	29.3	8.6	0.0	139.8	0.0	3.7
Atlantic (Oregon)	WR	311.9	275.8	118.2	97.6	60.0	0.0	36.1	0.0	3.9
AORTX09032-3W	TXCH	311.5	246.0	154.1	78.3	13.5	0.0	61.9	3.7	3.4
NDTX113037C-3W	TXCH	310.2	235.4	142.0	91.5	1.8	0.0	74.9	0.0	3.4
AORTX09037-4W	TXCH	309.5	239.8	147.3	92.4	0.0	0.0	69.7	0.0	3.9
AORTX09144-2W	TXCH	306.8	206.5	140.6	65.9	0.0	0.0	100.3	0.0	3.6
TX12483-6W	TXCH	305.7	247.5	127.0	86.4	34.0	0.0	58.2	0.0	3.6
ATTX11484-3W	TXCH	300.3	264.5	79.1	138.6	46.9	0.0	35.9	0.0	3.2
TX12484-4W ZC	TXCH (ZC)	291.7	248.9	71.7	87.9	89.3	18.3	24.5	0.0	3.8
Average		391.4	310.6	151.8	108.8	50.0	1.5	77.9	1.4	3.6
L.S.D. (.05)										

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

Dalhart  
Table 6a cont.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 35 entries in the Texas  
Advanced Russet Trial grown near Dalhart, Texas-2014.

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				
WTX10646-2W	TXCH	269.0	205.0	129.6	64.4	11.0	0.0	64.1	0.0	3.5
NDTX059828-2W	TXCH	266.5	111.3	88.6	14.6	8.1	0.0	155.2	0.0	3.5
TX12479-1W	TXCH	261.7	230.6	112.4	97.7	20.5	0.0	31.1	0.0	3.8
TX12479-16W	TXCH	253.3	185.2	146.4	11.0	27.8	0.0	68.1	0.0	3.6
NDTX113030C-10W	TXCH	252.6	98.1	65.9	22.0	10.2	0.0	154.5	0.0	3.6
AORTX09037-3W	TXCH	193.3	142.0	112.7	29.3	0.0	0.0	51.2	0.0	4.0
NDTX060700C-1W	TXCH	188.1	95.2	78.0	15.9	1.3	0.0	93.0	0.0	3.4
TX12479-13W	TXCH	162.5	124.5	109.8	0.0	14.6	0.0	38.1	0.0	3.3
Average L.S.D. (.05)		230.9	149.0	105.4	31.9	11.7	0.0	81.9	0.0	3.6

<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 40 entries in the Texas Chip  
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				
COTX10079-11W	TXCH	68.7	30.7	25.8	12.2	0.4	30.5	0.4	1.066	14.2	Round	White
TX12484-2W ZC	TXCH (ZC)	88.8	43.0	35.0	10.8	1.6	9.6	0.0	1.068	14.7	Oblong	White
TX12484-3W ZC	TXCH (ZC)	85.1	46.0	33.3	5.8	0.0	14.9	0.0	1.076	16.1	Oblong	White
TX12484-1W ZC	TXCH (ZC)	86.6	45.1	33.4	8.1	0.0	13.4	0.0	1.073	15.6	Oblong	White
NDTX102514ABC-5W	NATCH15	70.2	47.9	19.0	3.3	0.0	29.8	0.0	1.070	14.9	Round	White
AORTX11476-2W	TXCH	68.8	51.4	17.5	0.0	0.0	31.2	0.0	1.073	15.5	Oblong	White
NDTX071109C-1W	NATCH15	85.2	33.6	30.3	19.4	0.5	14.3	0.0	1.058	12.9	Round	White
NDTX081648CB-1W	TXCH (ZC)	88.5	38.2	34.7	15.6	0.0	11.5	0.0	1.061	13.5	Round	White
WTX10666-8W	TXCH	81.8	47.0	32.1	2.8	2.1	16.0	0.0	1.080	16.8	Oblong	White
AORTX09037-1W	TXCH	72.9	41.9	28.8	2.2	0.0	27.1	0.0	1.068	14.6	Round	White
Waneta	TXCH	82.2	30.7	35.6	15.8	0.0	17.8	0.0	1.068	14.6	Oblong	White
AORTX09037-5W	TXCH	68.0	45.7	15.7	6.6	0.0	32.0	0.0	1.071	15.2	Round	White
NDTX102852CB-4Ru	TXCH	92.7	20.4	44.8	27.5	0.0	7.3	0.0	1.060	13.3	Oblong	Russet
NDTX113030C-3W	TXCH	82.3	45.9	21.3	15.1	0.0	17.7	0.0	1.079	16.5	Oblong	White
NDTX102852CB-3Ru	TXCH	88.9	22.0	36.7	30.2	0.8	6.5	0.0	1.059	13.1	Round	Russet
AORTX09033-11W	TXCH	75.9	50.4	22.7	2.8	0.0	24.1	0.0	1.079	16.6	Round	White
TX12483-5W	TXCH	82.4	37.9	25.1	19.3	0.0	10.6	7.0	1.062	13.5	Oblong	White
NDTX113029C-2W	TXCH	44.0	30.4	11.1	2.4	0.0	54.4	1.6	1.066	14.3	Round	White
NDTX113467CB-1W	TXCH	65.4	50.4	14.6	0.4	0.0	34.6	0.0	1.086	17.9	Round	White
NDTX102796CbS-2W	TXCH	81.2	56.2	17.6	7.4	0.0	18.8	0.0	1.061	13.4	Round	White
TX12483-8W	TXCH	92.0	22.4	42.1	27.5	0.0	8.0	0.0	1.068	14.6	Oblong	White
TX12486-1W	TXCH	95.3	23.5	36.3	35.5	0.0	4.7	0.0	1.053	12.0	Round	White
AORTX09033-4W	TXCH	85.3	48.5	26.7	10.1	0.0	14.7	0.0	1.075	15.8	Round	White
AORTX09033-14W	TXCH	65.0	31.5	14.3	19.2	0.0	35.0	0.0	1.069	14.8	Round	White
NDTX102702C-1W	TXCH	87.0	20.2	37.2	29.6	0.0	13.0	0.0	1.068	14.6	Round	White
NDTX102640Cb-1W	NATCH15	55.8	44.6	9.8	1.3	0.0	44.2	0.0	1.064	13.9	Round	White
TX12483-4W	TXCH	90.1	26.4	38.6	25.2	0.0	9.9	0.0	1.072	15.3	Round	White
ATTX11476-11W	TXCH	73.4	42.4	25.2	5.8	0.0	22.7	3.9	1.070	14.9	Oblong	White
AORTX10247-1W/Y	TXCH	55.6	43.5	9.3	2.7	0.0	44.4	0.0	1.077	16.2	Round	White
Atlantic (Oregon)	WR	88.4	37.9	31.3	19.2	0.0	11.6	0.0	1.079	16.6	Round	White
AORTX09032-3W	TXCH	79.0	49.5	25.1	4.3	0.0	19.9	1.2	1.069	14.9	Oblong	Buff
NDTX113037C-3W	TXCH	75.9	45.8	29.5	0.6	0.0	24.1	0.0	1.072	15.4	Oblong	White
AORTX09037-4W	TXCH	77.5	47.6	29.9	0.0	0.0	22.5	0.0	1.073	15.5	Round	White
AORTX09144-2W	TXCH	67.3	45.8	21.5	0.0	0.0	32.7	0.0	1.070	14.9	Round	White
TX12483-6W	TXCH	81.0	41.6	28.3	11.1	0.0	19.0	0.0	1.068	14.7	Round	White
ATTX11484-3W	TXCH	88.1	26.3	46.1	15.6	0.0	11.9	0.0	1.074	15.8	Round	White
TX12484-4W ZC	TXCH (ZC)	85.3	24.6	30.1	30.6	6.3	8.4	0.0	1.072	15.4	Oblong	White
Average		79.4	38.4	27.7	13.2	0.2	19.9	0.4	1.069	14.8		
L.S.D. (.05)												

Dalhart  
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 35 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2014.

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				
WTX10646-2W	TXCH	76.2	48.2	23.9	4.1	0.0	23.8	0.0	1.065	14.1	Oblong	White
NDTX059828-2W	TXCH	41.8	33.2	5.5	3.0	0.0	58.2	0.0	1.072	15.3	Round	White
TX12479-1W	TXCH	88.1	42.9	37.3	7.8	0.0	11.9	0.0	1.068	14.7	Round	White
TX12479-16W	TXCH	73.1	57.8	4.3	11.0	0.0	26.9	0.0	1.070	14.9	Round	White
NDTX113030C-10W	TXCH	38.8	26.1	8.7	4.1	0.0	61.2	0.0	1.070	14.9	Round	White
AORTX09037-3W	TXCH	73.5	58.3	15.2	0.0	0.0	26.5	0.0	1.069	14.9	Round	White
NDTX060700C-1W	TXCH	50.6	32.4	8.5	0.7	0.0	49.4	0.0	1.086	17.9	Round	White
TX12479-13W	TXCH	76.6	67.6	0.0	9.0	0.0	23.4	0.0	1.007	3.7	Oblong	White
Average L.S.D. (.05)		64.8	45.8	12.9	5.0	0.0	35.2	0.0	1.063	13.8		

Dalhart  
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 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2015.

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>	
COTX10079-11W	TXCH	6.7	5.1	0.0	0	100	2.0	4.3	4.5	4.1	0
TX12484-2W ZC	TXCH (ZC)	8.3	4.1	0.0	0	100	2.0	4.5	4.5	4.5	0
TX12484-3W ZC	TXCH (ZC)	6.1	6.9	0.0	0	100	2.0	3.8	3.8	3.8	5
TX12484-1W ZC	TXCH (ZC)	8.2	3.9	0.0	0	100	2.0	4.7	4.4	4.5	8
NDTX102514ABC-5W	NATCH15	11.5	2.8	0.0	0	100	2.0	4.0	4.5	3.7	3
AORTX11476-2W	TXCH	9.2	3.4	0.0	0	100	2.0	3.8	3.8	3.8	15
NDTX071109C-1W	NATCH15	14.3	3.5	0.0	0	100	2.0	3.8	3.8	3.8	4
NDTX081648CB-1W	TXCH (ZC)	7.2	4.2	0.0	0	100	2.0	4.5	4.5	4.5	10
WTX10666-8W	TXCH	6.7	4.6	0.0	0	100	2.0	3.8	3.8	3.8	0
AORTX09037-1W	TXCH	9.6	3.1	0.0	0	100	2.0	4.5	4.5	4.5	11
Waneta	TXCH	6.5	4.5	0.0	0	100	2.0	4.0	4.0	4.0	0
AORTX09037-5W	TXCH	5.5	5.3	0.0	0	100	2.0	3.8	3.8	3.8	0
NDTX102852CB-4Ru	TXCH	4.7	6.3	0.0	0	100	2.0	3.8	3.8	3.8	0
NDTX113030C-3W	TXCH	7.3	3.8	0.0	0	100	2.0	4.2	4.2	4.2	3
NDTX102852CB-3Ru	TXCH	4.8	5.8	0.0	0	100	2.0	4.5	4.5	4.5	0
AORTX09033-11W	TXCH	10.9	2.5	0.0	0	100	2.0	3.8	3.8	3.8	0
TX12483-5W	TXCH	5.4	5.1	0.0	0	100	2.0	4.5	4.5	4.5	0
NDTX113029C-2W	TXCH	10.1	2.6	0.0	0	100	2.0	3.8	3.8	3.8	0
NDTX113467CB-1W	TXCH	8.8	3.1	0.0	0	100	2.0	4.8	4.8	4.8	0
NDTX102796CbS-2W	TXCH	6.8	4.0	0.0	0	100	2.0	4.5	4.5	4.5	0
TX12483-8W	TXCH	4.4	5.6	0.0	0	100	2.0	4.0	4.5	4.0	0
TX12486-1W	TXCH	4.0	6.2	0.0	0	100	2.0	3.8	4.5	3.5	35
AORTX09033-4W	TXCH	5.9	4.3	0.0	0	100	2.0	4.5	4.5	4.5	5
AORTX09033-14W	TXCH	3.7	6.4	0.0	0	100	2.0	3.8	3.8	3.8	10
NDTX102702C-1W	TXCH	5.7	4.2	0.0	0	100	2.0	3.8	3.8	3.8	0
NDTX102640Cb-1W	NATCH15	10.7	2.2	0.0	0	100	2.0	4.0	4.0	4.0	4
TX12483-4W	TXCH	4.7	5.0	0.0	0	100	2.0	4.5	4.5	4.5	0
ATTX11476-11W	TXCH	4.6	5.0	0.0	0	100	2.0	3.8	3.8	3.8	0
AORTX10247-1W/Y	TXCH	7.8	3.0	0.0	0	100	2.0	4.3	4.0	4.3	0
Atlantic (Oregon)	WR	5.2	4.5	0.0	0	100	2.0	4.0	4.5	4.0	0
AORTX09032-3W	TXCH	6.2	4.0	0.0	0	100	2.0	3.8	3.8	3.8	0
NDTX113037C-3W	TXCH	7.6	3.0	0.0	0	100	2.0	4.7	4.7	4.5	0
AORTX09037-4W	TXCH	7.3	3.2	0.0	0	100	2.0	3.8	3.8	3.8	3
AORTX09144-2W	TXCH	7.0	3.2	0.0	0	100	2.0	3.8	3.8	3.8	0
TX12483-6W	TXCH	5.5	4.3	0.0	0	100	2.0	4.0	4.0	4.0	0
ATTX11484-3W	TXCH	4.6	4.8	0.0	0	100	2.0	4.0	4.5	4.0	5
TX12484-4W ZC	TXCH (ZC)	4.1	5.1	0.0	0	100	2.0	3.8	4.5	3.5	8
Average		7.3	4.5	0.0	0	100	2.0	4.1	4.2	4.1	4
L.S.D. (.05)											

<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 6c cont.

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 35 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2014.

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>	
WTX10646-2W	TXCH	6.5	3.0	100	2.0	3.8	3.8	3.8	0
NDTX059828-2W	TXCH	8.1	2.4	100	2.0	3.5	4.5	3.5	15
TX12479-1W	TXCH	4.9	3.9	100	2.0	4.0	4.2	4.0	0
TX12479-16W	TXCH	4.9	3.8	100	2.0	4.5	4.5	4.5	10
NDTX113030C-10W	TXCH	8.7	2.1	100	2.0	3.8	3.8	3.8	0
AORTX09037-3W	TXCH	3.3	4.3	100	2.0	3.8	3.8	3.8	0
NDTX060700C-1W	TXCH	5.7	2.4	100	2.0	3.4	3.8	3.6	5
TX12479-13W	TXCH	3.3	3.6	100	2.0	3.6	3.8	3.5	25
Average L.S.D. (.05)		5.7	3.2	100	2.0	3.8	4.0	3.8	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 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 40 entries in the Texas Chip 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
COTX10079-11W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	15	0	0	0
TX12484-2W ZC	TXCH (ZC)	1.0	3.0	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12484-3W ZC	TXCH (ZC)	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 (ZC)	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	NATCHI5	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	10
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
NDTX071109C-1W	NATCHI5	1.0	2.0	1.0	2.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081648CB-1W	TXCH (ZC)	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	10	0	0	0
WTX10666-8W	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
AORTX09037-1W	TXCH	2.0	2.0	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	3	0	0	3
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
NDTX102852CB-4Ru	TXCH	1.0	2.7	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	4	0	0	0
NDTX113030C-3W	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-3Ru	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	4	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	5	0	0	0
TX12483-5W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	30	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
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
NDTX102796CbS-2W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	3
TX12483-8W	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
TX12486-1W	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
AORTX09033-4W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	20	0	0	0
AORTX09033-14W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	10	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
NDTX102640Cb-1W	NATCHI5	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	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	4
ATTX11476-11W	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
AORTX10247-1W/Y	TXCH	3.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	5
Atlantic (Oregon)	WR	1.0	2.5	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	45	0	0	35
AORTX09032-3W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
NDTX113037C-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
AORTX09037-4W	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
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
TX12483-6W	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
ATTX11484-3W	TXCH	1.0	2.0	1.0	2.0	1.0	5.0	5.0	5.0	5.0	5.0	14	0	0	4
TX12484-4W ZC	TXCH (ZC)	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 1.1 2.3 1.0 3.9 1.0 5.0 5.0 5.0 5.0 5.0 5.0 5 0 0 2  
L.S.D. (.05)

<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 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 35 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2014.

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
WTX10646-2W	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
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
TX12479-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	5
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
NDTX113030C-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
AORTX09037-3W	TXCH	1.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	10
NDTX060700C-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	10
TX12479-13W	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
Average		1.1	2.2	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	1	0	0	3
L.S.D. (.05)															

<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 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2015.  
Table 6e.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
COTX10079-11W	TXCH	...	... nice shape, very nice	0, 0, 0, 0	3.9, 3.9, 3.9, 3.9
TX12484-2W ZC	TXCH (ZC)	...	.. poor shape, deep eyes,	0, 0, 0, 0	3, 3, 3, 3
TX12484-3W ZC	TXCH (ZC)	...	.. nice shape, BOT,	0, 0, 0, 0	4, 4, 4, 4
TX12484-1W ZC	TXCH (ZC)	...	nice size, ...	0, 0, 0, 0	3.7, 3.7, 3.7, 3.7
NDTX102514ABC-5W	NATCH15	...	... nice size, poor internals, rough	0, 0, 0, 0	3.5, 3.6, 3.5, 3.6
AORTX11476-2W	TXCH	...	smooth skin, nice flesh, ..	0, 0, 0, 0	3.6, 3.6, 3.6, 3.6
NDTX071109C-1W	NATCH15	...	... deep eyes, rough, nice flash, Drop	0, 0, 0, 0	3, 3, 3.5, 3.3
NDTX081648CB-1W	TXCH (ZC)	...	.. nice size,	0, 0, 0, 0	3.8, 3.8, 3.8, 3.8
WTX10666-8W	TXCH	...	.. nice shape, smooth,	0, 0, 0, 0	3.8, 3.8, 3.8, 3.8
AORTX09037-1W	TXCH	...	, smooth, light yellow flesh, nice shape, ,	0, 0, 0, 0	3.8, 3.7, 3.8, 3.8
Waneta	TXCH	...	yield+, BOT, ..	0, 0, 0, 0	4.5, 4.5, 4.5, 4.5
AORTX09037-5W	TXCH	...	uniform, nice shape, ..	0, 0, 0, 0	3.8, 3.8, 3.8, 3.8
NDTX102852CB-4Ru	TXCH	...	... large tubers, nice shape, BOT+	0, 0, 0, 0	4, 4, 4, 4
NDTX113030C-3W	TXCH	...	.. nice shape and size,	0, 0, 0, 0	3.7, 3.7, 3.7, 3.7
NDTX102852CB-3Ru	TXCH	...	large tubers, nice size, BOT, ..	0, 0, 0, 0	4, 3.9, 3.8, 3.8
AORTX09033-11W	TXCH	...	.. nice shape,	0, 0, 0, 0	3.7, 3.7, 3.6, 3.6
TX12483-5W	TXCH	...	rough, hollow heart, ..	0, 0, 0, 0	3, 3, 3, 3
NDTX113029C-2W	TXCH	...	small trial candidate, smooth, ..	0, 0, 0, 0	3.8, 3.8, 3.8, 3.8
NDTX113467CB-1W	TXCH	...	.. nice size and shape,	0, 0, 0, 0	3.8, 3.8, 3.8, 3.8
NDTX102796ChS-2W	TXCH	...	move to small trial, nice+, .. smooth, nice size,	0, 0, 0, 0	4, 4, 4, 4
TX12483-8W	TXCH	...	large tubers, nice size, ..	0, 0, 0, 0	3.8, 3.8, 3.6, 3.6
TX12486-1W	TXCH	...	nice shape, ..	0, 0, 0, 0	3, 3, 3, 3
AORTX09033-4W	TXCH	...	.. large tubers, hollow heart++,	0, 0, 0, 0	3.5, 3.4, 3.3, 3.3
AORTX09033-14W	TXCH	...	shape??, large tubers, ..	0, 0, 0, 0	3.4, 3.4, 3.4, 3.4
NDTX102702C-1W	TXCH	...	.. nice size, rough	0, 0, 0, 0	3.5, 3, 3, 3.5
NDTX102640Cb-1W	NATCH15	...	, heavy set of B's, ..	0, 0, 0, 0	3.6, 3.5, 3.4, 3.4
TX12483-4W	TXCH	...	oversized, rough, .. light set, deep eyes	0, 0, 0, 0	3.5, 3.3, 3, 3.5
ATTX11476-11W	TXCH	...	.. small, rough,	0, 0, 0, 0	3.3, 3.3, 3.5, 3.5
AORTX10247-1W/Y	TXCH	...	.. very small, small candidate, yellow flesh	0, 0, 0, 0	3.8, 3.7, 3.6, 3.7
Atlantic (Oregon)	WR	...	yield+, hollow heart, nice shape, poor internals,	0, 0, 0, 0	3.8, 3.8, 4, 3.8
AORTX09032-3W	TXCH	...	rough, ..	0, 0, 0, 0	3.3, 3.3, 3.5, 3.5
NDTX113037C-3W	TXCH	...	.. smooth skin, some rough, bruise	0, 0, 0, 0	3.3, 3.3, 3.6, 3.5
AORTX09037-4W	TXCH	...	uniform, BOT- (NATCH candidate), ..	0, 0, 0, 0	4, 3.8, 3.9, 3.8
AORTX09144-2W	TXCH	...	nice skin, Smooth, ..	0, 0, 0, 0	3.6, 3.6, 3.6, 3.6
TX12483-6W	TXCH	...	.. small,	0, 0, 0, 0	3.8, 3.8, 3.4, 3.4
ATTX11484-3W	TXCH	...	.. deep nose, rough	0, 0, 0, 0	3.5, 3.2, 3, 3
TX12484-4W ZC	TXCH (ZC)	...	very large tubers, oversized, ..	0, 0, 0, 0	3.8, 3.8, 3.8, 3.8

Dalhart  
Table 6e cont.

Notes and general rating for all reps of 35 entries in the Texas Advanced Russet Trial grown near  
Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
WTX10646-2W	TXCH	, , smooth, some rough,	3.3, 3.3, 3.7, 3.7
NDTX059828-2W	TXCH	ZC Res, poor skin color, , ,	3.5, 3.5, 3.5, 3.5
TX12479-1W	TXCH	, , nice shape,	3.8, 3.8, 3.8, 3.8
TX12479-16W	TXCH	nice size, , ,	3.6, 3.6, 3.6, 3.6
NDTX113030C-10W	TXCH	small, , ,	3.6, 3.6, 3.6, 3.6
AORTX09037-3W	TXCH	low yield, smooth, light yellow flesh, , ,	4, 4, 4, 4
NDTX060700C-1W	TXCH	B's, browncenter, , too small++, poor internals	3.3, 3.3, 3.3, 3.5
TX12479-13W	TXCH	light set, poor flesh, , ,	3.3, 3.3, 3.3, 3.3



Dalhart  
Table 6f.

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 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Gravity	% Solids	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Good Chips
COTX10079-11W	TXCHdal	1.066	14.2	1	12/7	Keep	0%	63%
TX12484-2W ZC	TXCH (ZC	1.068	14.7	1	9/12	Keep- 1GH	0%	43%
TX12484-3W ZC	TXCH (ZC	1.076	16.1	1	18/2	Keep, BOT	0%	90%
TX12484-1W ZC	TXCH (ZC	1.073	15.6	1	12/7	keep	0%	63%
NDTX102514ABC-5W	NATCH15	1.070	14.9	1	12/8	Keep-	0%	60%
AORTX11476-2W	TXCH	1.073	15.5	1	9/11	Keep-	0%	45%
NDTX071109C-1W	NATCH15	1.058	12.9	1	14/5	Keep-	0%	74%
NDTX081648CB-1W	TXCH (ZC	1.061	13.5	3	10/10	keep, 1mech, nice	0%	50%
WTX10666-8W	TXCH	1.080	16.8	1	18/2	keep, 1mech, nice	0%	90%
AORTX09037-1W	TXCH	1.068	14.6	3	17/3	0 lent, yellow keep bot	0%	85%
Waneta	TXCH	1.068	14.6	1	19/1	Keep, BOT	0%	95%
AORTX09037-5W	TXCH	1.071	15.2	1	16/3	BOT Keep	0%	84%
NDTX102852CB-4Ru	TXCH	1.060	13.3	2	14/2	1GH,Keep	0%	88%
NDTX113030C-3W	TXCH	1.079	16.5	1	17/2	keep	0%	89%
NDTX102852CB-3Ru	TXCH	1.059	13.1	2	16/3	keep	0%	84%
AORTX09033-11W	TXCH	1.079	16.6	1	8/12	Keep	0%	40%
TX12483-5W	TXCH	1.062	13.5	1	19/1	Keep, BOT, 1 HH	0%	95%
NDTX113029C-2W	TXCH	1.066	14.3	1	11/9	keep -, 1 scab	0%	55%
NDTX113467CB-1W	TXCH	1.086	17.9	2	4/5	Keep -	0%	44%
NDTX102796CbS-2W	TXCH	1.061	13.4	1	1/19	1 IM, Drop	0%	5%
TX12483-8W	TXCH	1.068	14.6	1	11/8	Keep-, 2GH	0%	58%
TX12486-1W	TXCH	1.053	12.0	2	11/7	keep-	0%	61%
AORTX09033-4W	TXCH	1.075	15.8	1	19/1	BOT	0%	95%
AORTX09033-14W	TXCH	1.069	14.8	1	11/11	1GH, 1HH, 4IM, Keep -	0%	50%
NDTX102702C-1W	TXCH	1.068	14.6	1	11/9	Keep-	0%	55%
NDTX102640Cb-1W	NATCH15	1.064	13.9	2	11/7		0%	61%
TX12483-4W	TXCH	1.072	15.3	2	18/2	keep	0%	90%
ATTX11476-11W	TXCH	1.070	14.9	1	14/7	4IM, Keep -	0%	67%
AORTX10247-1W/Y	TXCH	1.077	16.2	3	15/5	Yellow, Keep -	0%	75%
Atlantic (Oregon)	WR	1.079	16.6	2	3/16		0%	16%
AORTX09032-3W	TXCH	1.069	14.9	2	14/6	1 GH, 5 IM, Keep -	0%	70%
NDTX113037C-3W	TXCH	1.072	15.4	3	14/4	keep	0%	78%
AORTX09037-4W	TXCH	1.073	15.5	1	18/1	Keep	0%	95%
AORTX09144-2W	TXCH	1.070	14.9	1	20/0	Keep BOT	0%	100%
TX12483-6W	TXCH	1.068	14.7	1	19/1	Keep, BOT, 1 HH	0%	95%
ATTX11484-3W	TXCH	1.074	15.8	1	9/11	Keep -	0%	45%
TX12484-4W ZC	TXCH (ZC	1.072	15.4	1	14/7	keep	0%	67%

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 6f cont.

Specific gravity, percent solids, tuber general rating, chip color rating, good chip bad chip ratio, notes, and percentage of Zebra Defect at chipping of 35 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Gravity	% Solids	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Good Chips
WTX10646-2W	TXCH	1.065	14.1	1	9/12	1HH, 2GH, 1LAT, Keep-	0%	43%
NDTX059828-2W	TXCH	1.072	15.3	1	15/4	2GH, Keep	0%	79%
TX12479-1W	TXCH	1.068	14.7	2	20/0	keep	0%	100%
TX12479-16W	TXCH	1.070	14.9	1	16/4	keep, nice	10%	80%
NDTX113030C-10W	TXCH	1.070	14.9	1	15/3	3 IM	0%	83%
AORTX09037-3W	TXCH	1.069	14.9	3	14/6	Yellow Keep	0%	70%
NDTX060700C-1W	TXCH	1.086	17.9	1	17/0	BOT-	0%	100%
TX12479-13W	TXCH	1.069	3.7	2	6/4	yellow, Keep	0%	60%

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

## 2014 Chip Selections Trial, Dalhart

The trial consisted of 129 entries. The following 41 clones (ATX11354-1W, COTX12235-1W, COTX12235-2W, COTX12236-3W, COTX12428-1W, COTX12428-2W, NDTX113549CB-1W, NDTX12135-1W, NDTX12161CAB-1W, NDTX12176AB-1Ru, NDTX12203AB-1W, NDTX12211C-1Ru, NDTX1244-3W , NDTX1246-2W, NDTX1246-3W, NDTX1246-4W, NDTX1246-5W, NDTX1246-6W, NDTX1246-7W, NDTX1292-1Ru, ORTX12469-1Ru/Y, ORTX12469-2Ru/Y, TX13563-1W, TX13563-3W, TX13563-5W, TX13565-1W, TX13566-1W, TX13566-5W, TX13572-3W, TX13574-1W, TX13574-3W, TX13574-4W, TX13578-10W, TX13578-4W, TX13578-6W, TX13580-1W, TX13580-2W, TX13585-1W, WTX13058-1W, WTX13068-1W, and WTX13073-1W/Y).will be advanced in 2016 (Table 7).

Dalhart  
Table 7

Inventory weight and Chip Notes of 41 entries to be advanced from the 2014 Chip Selection Trial grown near Dalhart, Texas-2016.

Variety or Selection	Trial	Inventory Weight	Chip Notes
A11354-1W	SELCH	22.5	
CO12235-1W	SELCH	12.6	
CO12235-2W	SELCH	8.7	
CO12236-3W	SELCH	4.4	
CO12428-1W	SELCH	10.5	
CO12428-2W	SELCH	2.3	z+
ND113549CB-1W	SELCH	7.1	
ND12135-1W	SELCH	7.4	2 gh
ND12161CAB-1W	SELCH	12.1	1 im
ND12176AB-1Ru	SELCH	3.5	
ND12203AB-1W	SELCH	23.9	1 hh/vas
ND12211C-1Ru	SELCH	3.4	
ND1244-3W	SELCH	21.8	yellow
ND1246-2W	SELCH	13.5	
ND1246-3W	SELCH	9.4	2 im
ND1246-4W	SELCH	16	
ND1246-5W	SELCH	10.5	1 scab, yellow
ND1246-6W	SELCH	24	
ND1246-7W	SELCH	4	
ND1292-1Ru	SELCH	5.2	
OR12469-1Ru/Y	SELCH	12.5	
OR12469-2Ru/Y	SELCH	2.5	
TX13563-1W	SELCH	6.1	
TX13563-3W	SELCH	7.9	
TX13563-5W	SELCH	8.6	2 im
TX13565-1W	SELCH	15	1 im/z
TX13566-1W	SELCH	3.1	
TX13566-5W	SELCH	12.1	
TX13572-3W	SELCH	7.1	2 gh
TX13574-1W	SELCH	5.8	
TX13574-3W	SELCH	7.5	
TX13574-4W	SELCH	8.2	1 gh
TX13578-10W	SELCH	7.5	
TX13578-4W	SELCH	11.4	1 gh, 1 im
TX13578-6W	SELCH	7	
TX13580-1W	SELCH	12.2	
TX13580-2W	SELCH	3.4	
TX13585-1W	SELCH	3.3	
W13058-1W	SELCH	8.6	1 vas/im
W13068-1W	SELCH	4.1	shape?
W13073-1W/Y	SELCH	4.1	yellow

## Texas Advanced Russet Selection Trial, Dalhart

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

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

- COTX10141-11Ru, COTX09052-1Ru, COTX10080-2Ru, Stampede Russet, and ATX84378-6Ru were the outstanding entries for this trial based on general rating (Tables 8a and 8e).
- ATX11952-1Ru had the highest total yield, while COTX10141-11Ru had the highest marketable yield. ATX11952-1Ru had the highest yield of over 10 oz. tubers (Table 8a).
- COTX09052-1Ru had the highest yield of less than 4 oz. tubers, while Russet Norkotah had the highest yield of culls/No.2 tubers (Table 8a).
- COTX10141-11Ru had the highest percentage of marketable yield, while COTX10141-13Ru had the highest percentage of over 18 oz. tubers (Table 8b).
- COTX09052-1Ru had the highest percentage of less than 4 oz. tubers, while Russet Norkotah had the highest percentage of culls/No. 2 tubers (Table 8b).
- COTX10141-11Ru and COTX10141-12Ru had the highest specific gravity (Table 8b).
- All entries were medium-late in maturity (Table 8c).

### Comments on entries:

- ATX11952-1Ru Long Russet oversized, yield+, keep
- Russet Norkotah Long Russet too long, rough, many culls, oversized, curved, skinny
- COTX10141-11Ru Long Russet large tubers, nice shape, some oversized, keep
- COTX10010-1Ru Long Russet some culls, large tubers, keep
- COTX08258-6Ru Long Russet culls, keep
- TXA549-1Ru Long Russet blocky, lenticels
- COTX09052-1Ru Long Russet smooth, nice net, long, keep
- COTX10080-2Ru Long Russet large tubers, oversized, nice shape, keep
- Stampede Russet Long Russet nice shape, few culls, oversized
- AORTX10127-1Ru Long Russet large tubers, processor, keep if high gravity, low gravity DROP
- ATX84378-6Ru Oblong Russet blocky, nice shape and skin, light set, keep
- COTX10141-13Ru Long Russet large tubers, blocky, keep

- COTX10141-12Ru Long Russet large, keep

Summary:

COTX10141-11Ru, COTX09052-1Ru, COTX10080-2Ru, Stampede Russet, and ATX84378-6Ru were the outstanding entries 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 13 entries in the Texas Advanced Russet 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				
ATX11952-1Ru	TXRU	516.5	362.0	119.0	116.4	126.7	50.1	50.1	54.2	3.5
Russet Norkotah	WR	512.8	287.3	130.5	101.2	55.6	22.0	47.6	155.9	2.9
COTX10141-11Ru	TXRU	490.1	373.7	95.0	142.6	136.2	18.1	48.3	50.0	3.8
COTX10010-1Ru	TXRU	437.1	309.5	92.1	129.8	87.7	27.1	67.0	33.5	3.4
COTX08258-6Ru	TXRU	431.9	273.8	104.0	102.5	67.4	0.0	63.0	95.2	3.4
TXA549-1RU	TXRU	427.5	298.7	75.4	106.7	116.6	6.4	47.6	74.9	3.4
COTX09052-1Ru	TXRU	396.8	245.6	128.1	69.9	47.6	4.4	132.9	13.9	3.7
COTX10080-2Ru	TXRU	390.2	270.5	84.7	122.3	63.5	32.2	57.1	30.4	3.7
Stampede Russet	TXRU	371.4	270.5	72.3	112.6	85.7	24.9	51.8	24.2	3.6
AORTX10127-1Ru	TXRU	369.0	277.8	69.9	102.5	105.4	28.2	27.5	35.5	3.4
ATX84378-6Ru	TXRU	340.8	262.6	99.4	102.3	60.9	13.2	30.6	34.4	3.6
COTX10141-13Ru	TXRU	335.3	208.3	59.7	80.2	68.5	35.3	50.7	41.0	3.3
COTX10141-12Ru	TXRU	329.8	235.2	73.0	88.0	74.1	19.4	38.8	36.4	3.3
ATX10675-1Ru	TXRU	273.8	217.1	98.8	80.5	37.7	4.8	48.3	3.7	3.6
Average		411.5	282.7	92.5	105.9	84.3	21.6	54.8	52.3	3.5
L.S.D. (.05)										

<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 13 entries in the Texas Advanced Russet 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				
ATX11952-1Ru	TXRU	70.1	23.0	22.5	24.5	9.7	9.7	10.5	1.070	14.9	Long	Russet
Russet Norkotah	WR	56.0	25.4	19.7	10.8	4.3	9.3	30.4	1.065	14.1	Long	Russet
COTX10141-11Ru	TXRU	76.3	19.4	29.1	27.8	3.7	9.9	10.2	1.077	16.2	Long	Russet
COTX10010-1Ru	TXRU	70.8	21.1	29.7	20.1	6.2	15.3	7.7	1.069	14.9	Long	Russet
COTX08258-6Ru	TXRU	63.4	24.1	23.7	15.6	0.0	14.6	22.0	1.072	15.4	Long	Russet
TXA549-1RU	TXRU	69.9	17.6	25.0	27.3	1.5	11.1	17.5	1.074	15.8	Long	Russet
COTX09052-1Ru	TXRU	61.9	27.9	17.6	12.0	1.1	33.5	3.5	1.065	14.1	Long	Russet
COTX10080-2Ru	TXRU	69.3	21.7	31.3	16.3	8.3	14.6	7.8	1.057	12.6	Long	Russet
Stampede Russet	TXRU	72.8	19.5	30.3	23.1	6.7	13.9	6.5	1.041	9.8	Long	Russet
AORTX10127-1Ru	TXRU	75.3	18.9	27.8	28.6	7.6	7.4	9.6	1.058	12.9	Long	Russet
ATX84378-6Ru	TXRU	77.1	29.2	30.0	17.9	3.9	9.0	10.1	1.068	14.6	Oblong	Russet
COTX10141-13Ru	TXRU	62.1	17.8	23.9	20.4	10.5	15.1	12.2	1.067	14.4	Long	Russet
COTX10141-12Ru	TXRU	71.3	22.1	26.7	22.5	5.9	11.8	11.0	1.077	16.2	Long	Russet
ATX10675-1Ru	TXRU	79.3	36.1	29.4	13.8	1.7	17.6	1.3	1.079	16.5	Long	Russet
Average L.S.D. (.05)		68.9	22.1	26.0	20.5	5.3	13.5	12.2	1.066	14.3		



Dalhart  
Table 9c.

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 Texas Advanced Russet 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>	
COTX10141-11Ru	TXRU	5.8	7.1	92	2.0	4.5	4.5	4.5	41
COTX10010-1Ru	TXRU	5.1	6.3	100	2.0	4.1	4.5	4.1	41
COTX08258-6Ru	TXRU	6.3	5.0	100	2.0	4.5	4.5	4.5	50
TXA549-1RU	TXRU	4.8	6.5	100	2.0	4.3	4.5	3.9	35
COTX10080-2Ru	TXRU	4.5	6.4	100	2.0	4.4	4.5	4.5	5
COTX10141-12Ru	TXRU	3.9	6.2	100	2.0	4.0	4.4	4.1	44
COTX09052-1Ru	TXRU	7.7	3.8	100	2.0	4.3	4.4	4.2	64
COTX10141-13Ru	TXRU	5.1	6.3	84	2.0	4.3	4.4	4.0	48
ATX84378-6Ru	TXRU	4.7	5.3	100	2.0	4.0	4.0	4.0	65
Stampede Russet	TXRU	4.6	6.0	100	1.8	4.0	3.8	4.0	35
ATX11952-1Ru	TXRU	6.1	6.1	100	2.0	4.0	3.7	3.5	68
Russet Norkotah	WR	6.9	5.4	100	2.0	4.0	3.7	3.9	48
AORTX10127-1Ru	TXRU	4.1	6.7	100	2.0	3.5	3.5	3.5	38
ATX10675-1Ru	TXRU	4.0	5.0	100	2.0	4.5	4.5	4.5	0
Average L.S.D. (.05)		5.4	5.9	98	2.0	4.1	4.2	4.0	45

<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 13 entries in the Texas Advanced Russet 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
ATX11952-1Ru	TXRU	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah	WR	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	10	0	0	0
COTX10141-11Ru	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
COTX10010-1Ru	TXRU	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
COTX08258-6Ru	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
TXA549-1Ru	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
COTX09052-1Ru	TXRU	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10080-2Ru	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
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
AORTX10127-1Ru	TXRU	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX84378-6Ru	TXRU	1.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10141-13Ru	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
COTX10141-12Ru	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
ATX10675-1Ru	TXRU	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	3.8	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	1	0	0	0
L.S.D. (.05)															

<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 13 entries in the Texas Advanced Russet Trial grown near  
Dalhart, Texas-2015.

Variety or Selection	Trial	Notes Grading	General Rating Grading
ATX11952-1Ru	TXRU	, , oversized, keep, yield+,	3.5, 3.5, 3.5, 3.5
Russet Norkotah	WR	too long, rough, many culls, oversized, curved, skinny	2.9, 2.5, 3, 3
COTX10141-11Ru	TXRU	, large tubers, nice shape, keep, some oversized,	3.8, 3.8, 3.7, 3.8
COTX10010-1Ru	TXRU	some culls, , large tubers, keep,	3.4, 3.4, 3.3, 3.4
COTX08258-6Ru	TXRU	culls keep, , ,	3.4, 3.4, 3.4, 3.4
TXA549-1RU	TXRU	, , blocky, lenticels,	3.5, 3.4, 3.2, 3.4
COTX09052-1Ru	TXRU	smooth, keep, nice net, long,	3.8, 3.5, 3.7, 3.7
COTX10080-2Ru	TXRU	, , large tubers, oversized, nice shape, keep,	3.5, 3.8, 3.8, 3.8
Stampede Russet	TXRU	, , , nice shape, few culls, oversizede	3.6, 3.7, 3.5, 3.5
AORTX10127-1Ru	TXRU	large tubers, prossesor, keep if high gravity, , ,	3.4, 3.4, 3.4, 3.4
ATX84378-6Ru	TXRU	, blocky, nice shape and skin, keep, , light set	3.8, 3.8, 3.6, 3.3
COTX10141-13Ru	TXRU	large tubers, keep, , blocky,	3.5, 3.2, 3.3, 3.2
COTX10141-12Ru	TXRU	, , , large, keep	3.3, 3.5, 3.5, 3
ATX10675-1Ru	TXRU	light russet skin, smooth, nice shape, keep, , ,	3.6, 3.6, 3.5, 3.5

## **2014 Russet Selections Trial, Dalhart**

The trial consisted of 38 entries of which (COTX12226-1Ru, COTX12370-2Ru, NDTX12180ABC-1W, and TX13512-1Ru).will be advanced in 2016 (Table 9).

Dalhart  
Table 9

Inventory weight and notes of 4 entries to be advanced from the 2014 Russet Selection Trial grown near Dalhart, Texas-2016.

---

Variety or Selection	Trial	Inventory Weight
CO12226-1Ru	14SEL176	24.6
CO12370-2Ru	14SEL191	20.1
ND12180ABC-1W	14SEL224	20
TX13512-1Ru	14SEL068	19.1

## Texas Advanced Red Selection Trial, Dalhart

This trial consisted of fifteen entries and the check varieties Red LaSoda and Chieftain.

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

- COTX07054-2R and NDTX092231C-1R were the outstanding entries based on general rating and best of trial designation, while NDTX050070-1R, ATX08121-5R, BTX2332-1R, TX11448-2R, TX12492-1R, and NDTX4784-7R also had high general ratings (Tables 10a, and 10e).
- NDTX050070-1R had the highest total yield, while ATX08121-5R had the highest marketable yield. NDTX092231C-1R had the highest yield of 4-6 oz. tubers (Table 10a).
- ATX08121-5R had the highest yield of over 10 oz. tubers (Table 10a).
- TX08375-3R had the highest yield of less than 4 oz. tubers (Table 10a).
- ATX08121-5R had the highest percentage marketable yield, while NDTX092231C-1R had the highest percentage of 4-6 oz. tubers and TX12472-4R had the highest percentage of less than 4 oz. tubers. (Table 10b).
- TX12472-4R had the highest specific gravity (Table 10b)
- Red LaSoda, BTX2332-1R, NDTX050070-1R, TX12492-1R, and COTX05211-5R were the latest maturing entries, while ATX08121-5R was the earliest maturing entry (Table 10c).
- COTX05211-5R had a high rating for feathering (Table 10d).

### Comments on entries:

- NDTX050070-1R Oblong Red high yield, nice color, nice skin, feathering, keep
- ATX08121-5R Round Red light skin, nice shape, keep
- COTX07054-2R Round Red very nice shape, high yield, greenhead, BOT+
- NDTX092231C-1R Long Red nice color, nice shape, keep, BOT
- Red LaSoda Oblong Red light skin, deep eyes
- BTX2332-1R Oblong Red nice skin, some feathering, oversized, silver scurf, nice shape
- TX08375-3R Long Red feathering, heavy set, smooth, greenhead, silver scurf, DROP+++
- TX11448-2R Oblong Red silver scurf, send to Larissa, lenticels, nice shape
- TX12492-1R Oblong Red greenhead, smooth, nice shape, light skin, keep+
- COTX05211-5R Long Red feathering, growth cracks, DROP+++

- COTX02293-4R Oblong Red deep eyes, oversized, DROP+++
- NDTX081572B-1R Round Red poor shape, feathering, heat sprouts, DROP+++
- NDTX4784-7R Oblong Red nice size, nice shape and skin, keep
- TX12472-4R Oblong Red
- TX11448-3R Oblong Red nice shape, light set, feathering, keep??

Summary:

COTX07054-2R and NDTX092231C-1R 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 15 entries in the Texas Advanced Red 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				
NDTX050070-1R	TXRD	420.8	288.4	161.4	57.5	69.5	0.0	121.5	10.8	3.7
ATX08121-5R	TXRD	392.4	334.6	119.0	101.0	114.6	5.1	50.1	2.6	3.6
COTX07054-2R	TXRD	389.1	237.9	154.8	50.1	32.9	0.0	129.2	22.0	3.9
NDTX092231C-1R	TXRD	368.1	271.1	164.9	84.2	22.0	0.0	87.3	9.7	3.9
Red LaSoda	WR	350.3	274.4	90.8	112.0	71.6	0.0	51.2	24.7	3.5
BTX2332-1R	TXRD	331.9	255.0	134.5	86.4	34.2	0.0	72.2	4.6	3.8
TX08375-3R	TXRD	324.7	146.1	98.1	30.9	17.0	0.0	168.2	10.4	2.9
TX11448-2R	TXRD	300.0	204.6	117.1	35.3	52.2	0.0	84.0	11.3	3.6
TX12492-1R	TXRD	299.6	225.1	126.8	41.2	57.1	0.0	64.4	10.1	3.7
COTX05211-5R	TXRD	293.6	116.0	95.2	17.0	3.8	0.0	120.6	56.9	2.0
COTX02293-4R	TXRD	287.3	176.4	104.9	34.4	37.2	0.0	90.4	20.5	2.4
NDTX081572B-1R	TXRD	256.8	106.9	76.1	23.2	7.5	0.0	142.2	7.7	2.4
NDTX4784-7R	TXRD	255.1	174.8	95.9	19.6	59.3	6.6	59.1	14.6	3.8
TX12472-4R	TXRD	213.8	96.6	81.3	15.4	0.0	0.0	112.0	5.1	3.5
TX11448-3R	TXRD	160.7	110.9	69.0	17.0	24.9	2.7	43.4	3.7	3.5
Average		309.6	201.3	112.7	48.4	40.2	1.0	93.1	14.3	3.3
L.S.D. (.05)										

<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 15 entries in the Texas Advanced Red 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				
NDTX050070-1R	TXRD	68.6	38.4	13.7	16.5	0.0	28.9	2.6	1.057	12.6	Oblong	Red
ATX08121-5R	TXRD	85.3	30.3	25.7	29.2	1.3	12.8	0.7	1.059	13.0	Round	Red
COTX07054-2R	TXRD	61.1	39.8	12.9	8.5	0.0	33.2	5.6	1.066	14.3	Round	Red
NDTX092231C-1R	TXRD	73.6	44.8	22.9	6.0	0.0	23.7	2.6	1.058	12.9	Long	Red
Red LaSoda	WR	78.3	25.9	32.0	20.4	0.0	14.6	7.1	1.052	11.7	Oblong	Red
BTX2332-1R	TXRD	76.8	40.5	26.0	10.3	0.0	21.8	1.4	1.054	12.1	Oblong	Red
TX08375-3R	TXRD	45.0	26.6	9.5	5.2	0.0	51.8	3.2	1.054	12.2	Long	Red
TX11448-2R	TXRD	68.2	39.0	11.8	17.4	0.0	28.0	3.8	1.051	11.6	Oblong	Red
TX12492-1R	TXRD	75.1	42.3	13.7	19.1	0.0	21.5	3.4	1.050	11.4	Oblong	Red
COTX05211-5R	TXRD	39.5	32.4	5.8	1.3	0.0	41.1	19.4	1.053	11.9	Long	Red
COTX02293-4R	TXRD	61.4	36.5	12.0	12.9	0.0	31.5	7.1	1.054	12.1	Oblong	Red
NDTX081572B-1R	TXRD	41.6	29.7	9.1	2.9	0.0	55.4	3.0	1.053	11.9	Round	Red
NDTX4784-7R	TXRD	68.5	37.6	7.7	23.2	2.6	23.2	5.7	1.052	11.8	Oblong	Red
TX12472-4R	TXRD	45.2	38.0	7.2	0.0	0.0	52.4	2.4	1.069	14.8	Oblong	Red
TX11448-3R	TXRD	69.0	42.9	10.6	15.5	0.7	27.0	2.3	1.058	12.8	Oblong	Red
Average L.S.D. (.05)		63.8	36.3	14.7	12.6	0.3	31.1	4.7	1.056	12.5		

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 15 entries in the Texas Advanced Red 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>	
NDTX050070-1R	TXRD	8.2	3.7	100	2.0	4.5	4.5	4.5	36
ATX08121-5R	TXRD	5.5	5.2	100	2.0	3.5	3.5	3.5	40
COTX07054-2R	TXRD	9.5	3.0	100	2.0	4.0	3.7	3.8	20
NDTX092231C-1R	TXRD	7.2	3.7	100	2.0	4.2	4.0	4.0	29
Red LaSoda	WR	5.7	4.5	100	2.0	4.7	4.8	4.7	2
BTX2332-1R	TXRD	6.0	4.1	100	2.0	4.5	4.8	4.5	15
TX08375-3R	TXRD	9.1	2.6	100	2.0	4.0	4.0	4.0	41
TX11448-2R	TXRD	6.0	3.7	100	2.0	3.0	4.0	3.0	36
TX12492-1R	TXRD	5.3	4.2	100	2.0	4.5	4.5	4.5	12
COTX05211-5R	TXRD	7.5	2.9	100	2.0	4.5	4.5	4.5	3
COTX02293-4R	TXRD	6.1	3.4	100	2.0	3.5	3.7	3.5	9
NDTX081572B-1R	TXRD	7.7	2.5	100	2.0	4.0	3.7	3.6	20
NDTX4784-7R	TXRD	4.5	4.1	100	2.0	3.1	3.7	3.6	24
TX12472-4R	TXRD	6.4	2.4	100	2.0	3.5	3.8	3.5	25
TX11448-3R	TXRD	6.4	3.7	50	2.0	2.0	4.0	2.3	21
Average		6.7	3.6	97	2.0	3.8	4.1	3.8	22
L.S.D. (.05)									

<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 15 entries in the Texas Advanced Red 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
NDTX050070-1R	TXRD	1.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	3.8	0	0	0	0
ATX08121-5R	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
COTX07054-2R	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
NDTX092231C-1R	TXRD	1.0	3.5	1.0	4.0	3.8	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	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX2332-1R	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
TX08375-3R	TXRD	1.0	3.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	3.5	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	4.5	0	0	0	0
TX12492-1R	TXRD	1.0	3.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	4.0	0	0	0	0
COTX05211-5R	TXRD	1.0	3.5	1.0	4.0	3.7	4.3	5.0	5.0	5.0	2.0	0	0	0	0
COTX02293-4R	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
NDTX081572B-1R	TXRD	1.0	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	3.0	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
TX12472-4R	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
TX11448-3R	TXRD	1.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	3.0	0	0	0	0
Average		1.0	2.8	1.0	3.9	3.7	5.0	5.0	5.0	5.0	4.2	0	0	0	0
L.S.D. (.05)															

<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 15 entries in the Texas Advanced Red Selection Trial  
grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Notes Grading	General Rating Grading
NDTX050070-1R	TXRD	high yield, nice color, keep, nice skin, feathering, keep	3.8, 3.8, 3.7, 3.5
ATX08121-5R	TXRD	light skin, , nice shape, keep,	3.6, 3.6, 3.6, 3.6
COTX07054-2R	TXRD	very nice shape, BOT+, high yield, , greenhead, bad rep	4.5, 3.6, 4, 3.6
NDTX092231C-1R	TXRD	, nice color, , nice shape, BOT, keep	4, 3.8, 3.7, 4
Red LaSoda	WR	light skin, deep eyes, , , nice skin, some feathering, , , oversized, silver scurf,	3.5, 3.5, 3.5, 3.5
BTX2332-1R	TXRD	nice shape feathering, heavy set, smooth, greenhead, silver scurf,	3.9, 3.8, 3.8, 3.8
TX08375-3R	TXRD	drop+++	3, 3, 2.5, 3
TX11448-2R	TXRD	silver scurf, send to Larissa, lenticels, nice shape,	3.6, 3.6, 3.6, 3.6
TX12492-1R	TXRD	greenhead, smooth, keep+, nice shape, , light skin	3.8, 3.8, 3.7, 3.6
COTX05211-5R	TXRD	, , , feathering, growth cracks, drop+++	2, 2, 2, 2
COTX02293-4R	TXRD	, deep eyes, drop+++ , oversized,	2.5, 2.5, 2.5, 2
NDTX081572B-1R	TXRD	poor shape, feathering, drop+++ , , , heat sprouts	2.5, 2, 2.5, 2.5
NDTX4784-7R	TXRD	nice size, , nice shape and skin keep,	3.8, 3.8, 3.8, 3.8
TX12472-4R	TXRD	, , ,	3.5, 3.5, 3.5, 3.5
TX11448-3R	TXRD	nice shape, light set, feathering, keep??, , light set	3.5, 3.5, 3.5, 3.5

## **2014 Red Selections Trial, Dalhart**

The trial consisted of 11 entries of which (TX13524-1R, TX13524-2R, TX13579-1R, and TX13558-5P).will be advanced in 2016 (Table 11).

Dalhart  
Table 11

Inventory weight of 4 entries to be Advanced from  
the 2014 Red Selection Trial grown near Dalhart,  
Texas-2016.

---

Variety or Selection	Trial	Inventory Weight
TX13524-1R	14SEL064	14.7
TX13524-2R	14SEL259	7.2
TX13579-1R	14SEL145	6.1
TX13558-5P	14SEL058	24.1

---

## Texas Advanced Red/Yellow Selection Trial, Dalhart

This trial consisted of nine 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, while TX12471-7R/Y also had a high general rating (Table 12a).
- Sierra Rose had the highest total and marketable yield (Table 12a)
- TX12471-7R/Y had the highest yield of 4-6 oz. tubers, while TX12471-8R/Y had the highest yield of less than 4 oz. tubers (Table 12a).
- TX12471-8R/Y had the highest yield of culls/No. 2 tubers (Table 14a).
- Sierra Rose had the highest percentage of marketable yield, while TX12471-7R/Y had the highest percentage of 4-6 oz. tubers (Table 12b).
- TX12472-2R had the highest percentage of less than 4 oz. tubers, while TX11458-2R/Y and TX12471-8R/Y had the highest percentage culls/No. 2 tubers (Table 12b).
- TX12472-2R had the highest specific gravity (Table 12b).
- TX12471-8R/Y, TX12471-7R/Y, and TX11458-1R/Y had the highest average number of tubers per plant (Table 14c).
- Sierra Rose, TX11458-2R/Y, TX12471-1R/Y, ATTX10265-4R/Y, TX11458-3R/Y, and TX11458-1R/Y were the latest maturing entries, while TX12472-2R was the earliest maturing entry (Table 12c).
- ATTX10265-4R/Y had the darkest yellow flesh color (Table 12d).

### Comments on entries:

- Sierra Rose            Long Red    nice, nice skin, oversized, nice shape, smooth, BOT-, FC=3.3
- TX12471-8R/Y        Oblong Red   silver scurf, faded skin, nice skin, pointed, poor internals, DROP+++, FC=3.0
- ATTX10265-4R/Y    Oblong Red   very smooth skin, nice flesh Keep+, BOT-, FC=3.8
- TX12471-7R/Y        Round Red    nice shape and skin, greenheads, some silver scurf, Keep+, FC=3.5
- TX11458-3R/Y        Oblong Red   feathering, variable size, heat sprouts, rough, pointed, light set, DROP+++, FC=3.5

- TX11458-1R/Y Round Red faded skin, feathering, heat sprouts, pointed, growth cracks, light set, DROP+++, FC=3.5
- TX11458-2R/Y Oblong Red nice flesh, rough, feathering, pointed, DROP++, FC=3.0
- TX12472-2R Oblong Red nice shape, silver scurf, DROP, FC=3.5
- TX12471-1R/Y Oblong Red nice flesh, nice skin, rough, Keep++, 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 9 entries in the Texas Advanced Red/Yellow 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				
Sierra Rose	TXR/Y	397.5	314.1	117.9	129.9	66.3	4.0	57.1	22.3	3.8
TX12471-8R/Y	TXR/Y	393.1	133.1	106.9	26.2	0.0	0.0	176.4	83.6	2.7
ATTX10265-4R/Y	TXR/Y	370.6	179.7	132.3	43.9	3.5	0.0	153.0	37.9	3.8
TX12471-7R/Y	TXR/Y	366.1	187.1	151.2	35.9	0.0	0.0	168.7	10.2	3.8
TX11458-3R/Y	TXR/Y	344.8	136.2	120.1	16.1	0.0	0.0	158.1	50.5	2.1
TX11458-1R/Y	TXR/Y	313.0	113.5	102.5	11.0	0.0	0.0	158.0	41.5	2.1
TX11458-2R/Y	TXR/Y	291.6	127.4	96.6	28.6	2.2	0.0	95.0	69.2	2.8
TX12472-2R	TXR/Y	283.3	109.8	80.5	29.3	0.0	0.0	164.0	9.5	3.0
TX12471-1R/Y	TXR/Y	246.4	151.2	71.6	46.1	33.5	0.0	74.5	20.7	3.4
Average		334.0	161.3	108.8	40.8	11.7	0.4	133.9	38.4	3.0
L.S.D. (.05)										

<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 9 entries in the Texas Advanced Red/Yellow 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				
Sierra Rose	TXR/Y	79.0	29.7	32.7	16.7	1.0	14.4	5.6	1.058	12.8	Long	Red
TX12471-8R/Y	TXR/Y	33.8	27.2	6.7	0.0	0.0	44.9	21.3	1.062	13.6	Oblong	Red
ATTX10265-4R/Y	TXR/Y	48.5	35.7	11.9	0.9	0.0	41.3	10.2	1.048	11.1	Oblong	Red
TX12471-7R/Y	TXR/Y	51.1	41.3	9.8	0.0	0.0	46.1	2.8	1.056	12.6	Round	Red
TX11458-3R/Y	TXR/Y	39.5	34.8	4.7	0.0	0.0	45.9	14.6	1.047	10.9	Oblong	Red
TX11458-1R/Y	TXR/Y	36.3	32.7	3.5	0.0	0.0	50.5	13.3	1.049	11.2	Round	Red
TX11458-2R/Y	TXR/Y	43.7	27.3	9.8	0.8	0.0	32.6	23.7	1.057	12.8	Oblong	Red
TX12472-2R	TXR/Y	38.8	28.4	10.3	0.0	0.0	57.9	3.4	1.065	14.0	Oblong	Red
TX12471-1R/Y	TXR/Y	61.4	29.0	18.7	13.6	0.0	30.2	8.4	1.061	13.4	Oblong	Red
Average L.S.D. (.05)		48.0	31.8	12.0	3.6	0.1	40.4	11.5	1.056	12.5		

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 9 entries in the Texas Advanced Red/Yellow 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>	
Sierra Rose	TXR/Y	6.2	4.7	100	2.0	4.5	4.5	4.5	6
TX12471-8R/Y	TXR/Y	11.5	2.5	100	2.0	3.5	3.8	3.5	17
ATTX10265-4R/Y	TXR/Y	9.2	2.9	100	2.0	4.7	4.8	4.7	9
TX12471-7R/Y	TXR/Y	10.1	2.6	100	2.0	3.5	4.0	3.5	0
TX11458-3R/Y	TXR/Y	9.9	2.6	100	2.0	4.5	4.8	4.5	3
TX11458-1R/Y	TXR/Y	10.2	2.2	100	2.0	4.5	4.8	4.5	3
TX11458-2R/Y	TXR/Y	7.0	3.0	100	2.0	4.5	4.5	4.5	3
TX12472-2R	TXR/Y	7.7	2.7	100	2.0	3.5	3.0	3.5	75
TX12471-1R/Y	TXR/Y	5.4	3.3	100	2.0	4.0	4.5	4.0	5
Average L.S.D. (.05)		8.6	3.0	100	2.0	4.1	4.3	4.1	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

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 9 entries in the Texas Advanced Red/Yellow 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
Sierra Rose	TXR/Y	3.3	3.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12471-8R/Y	TXR/Y	3.0	2.7	1.0	4.0	3.5	5.0	5.0	5.0	5.0	4.3	0	0	0	0
ATTX10265-4R/Y	TXR/Y	3.8	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	TXR/Y	3.5	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX11458-3R/Y	TXR/Y	3.5	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	3.8	0	0	0	0
TX11458-1R/Y	TXR/Y	3.5	2.0	1.0	4.0	3.7	3.5	5.0	5.0	5.0	3.5	0	0	0	0
TX11458-2R/Y	TXR/Y	3.0	2.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	3.0	0	0	0	0
TX12472-2R	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
TX12471-1R/Y	TXR/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
Average		3.3	2.7	1.0	4.0	3.7	4.8	5.0	5.0	5.0	4.4	0	0	0	0
L.S.D. (.05)															

<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 9 entries in the Texas Advanced Red/Yellow Selection  
Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Notes Grading	General Rating Grading
Sierra Rose	TXR/Y	nice, nice skin, oversized, nice shape, smooth, BOT- silver scurf, faded skin, , , Drop+++ , nice skin, pointed,	3.8, 3.8, 3.8, 3.8
TX12471-8R/Y	TXR/Y	poor internals	2, 2.7, 2.5, 3.5
ATTX10265-4R/Y	TXR/Y	, , very smooth skin, nice flesh Keep+, BOT- nice shape and skin, greenheads, , some silver scurf,	3.8, 3.8, 3.8, 3.8
TX12471-7R/Y	TXR/Y	Keep+, feathering, variable size, heat sprouts, Drop+++ ,	3.8, 3.8, 3.7, 3.7
TX11458-3R/Y	TXR/Y	rough, pointed, light set	2.5, 2, 2, 2
TX11458-1R/Y	TXR/Y	faded skin, feathering, heat sprouts, Drop+++ , pointed, growth cracks, light set,	2.5, 2, 2, 2
TX11458-2R/Y	TXR/Y	nice flesh, Drop+, rough, drop+, feathering, pointed	3, 3, 2, 3
TX12472-2R	TXR/Y	nice shape, silver scurf, drop, , ,	3, 3, 3, 3
TX12471-1R/Y	TXR/Y	nice flesh, Keep++ , , nice skin, rough	3.3, 3.6, 3.4, 3.3

## **2014 Red/Yellow Selections Trial, Dalhart**

The trial consisted of 9 entries of which (TX13528-5R/Y).will be advanced in 2016 (Table 13).

Dalhart  
Table 13

Inventory weight of 1 entry to be  
advanced from the 2014 Red Skin  
Yellow Flesh Trial grown near  
Dalhart, Texas-2016.

---

Variety or Selection	Trial	Inventory Weight
TX13528-5R/Y	14SEL100	15.4

---

## Texas Advanced White/Yellow Selection Trial, Dalhart

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

Results were as follows: (Dalhart Tables 14a, 14b, 14c, 14d, and 14e)

- NDTX059759-3RY/YPinto and BTX1749-1W/Y were the outstanding entries for this trial based on general rating and best of trial designation, while Yukon Gold and COTX10097-2W/Y also had high general ratings (Tables 14a and 14e).
- BTX1749-1W/Y had the highest total and marketable yield (Table 14a).
- AORTX11913-3WRE/Y had the highest yield of 4-6 oz. tubers, while COTX07382-2W/Y had the highest yield of over 10 oz. tubers. NDTX113461-1Rpinto had the highest yield of less than 4 oz. tubers. COTX05249-3WRE/Y, TX12471-5W/Y, and COTX07382-2W/Y had the highest yield of culls/No. 2 tubers (Table 14a).
- Yukon Gold had the highest percentage of marketable yield, while COTX07382-2W/Y had the highest percentage of over 10 oz. tubers (Table 14b).
- NDTX113461-1Rpinto had the highest percentage of less than 4 oz. tubers. COTX05249-3WRE/Y and COTX10138-8W/Ypinto had the highest percentage of culls/No. 2 tubers (Table 14b).
- BTX1749-1W/Y, COTX07382-2W/Y, and COTX10097-2W/Y had the highest specific gravity (Table 14b).
- All of the entries were late in maturity (Table 14c).
- BTX1749-1W/Y, TX12471-5W/Y, and COTX10097-2W/Y had the darkest yellow flesh (Table 14d).

### Comments on entries:

- |                       |        |       |   |
|-----------------------|--------|-------|---|
| • BTX1749-1W/Y        | Long   | White | yield+, oversized, nice shape, BOT+, FC=3.5                                       |
| • NDTX113461-1Rpinto  | Oblong | White | small parent, B's, FC=1.0   |
| • TX12471-5W/Y        | Oblong | White | high set, small, nice flesh Keep, FC=3.5  |
| • NDTX113438CB-1WRSPL | Oblong | White | high yield, smooth, Red splash, Keep??, FC=1.0                                    |
| • AORTX11913-3Wre/Y   | Oblong | White | white flesh, high yield, red eyes, smooth, nice shape, some rough, Keep++, FC=1.0 |
| • COTX07382-2W/Y      | Long   | White | oversized, knobs DROP+, FC=2.5  |
| • COTX05249-3WRE/Y    | Long   | White | mixed flesh, not red eye, DROP+++, FC=2.0   |



- COTX10097-2W/Y Long White smooth, some rough, nice flesh, Keep+, FC=3.5
- Yukon Gold Oblong White oversized, nice shape, FC=2.5
- COTX11130-1WRE/Y Round White deep eyes, DROP++, FC=3.0
- COTX10138-8W/Ypinto Long White heat sprouts, light purple skin, DROP++, smooth, FC=3.0
- COTX11140-2WRE/Y Oblong White not red eye, Keep??., FC=3.0
- NDTX059759-3RY/Y Pinto Oblong White nice red skin, low yield, BOT, FC=3.0

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

Summary:

NDTX059759-3RY/YPinto and BTX1749-1W/Y were the outstanding entries for this trial based on all factors.

Dalhart  
Table 14a.

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 White/Yellow 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
BTX1749-1W/Y	TXW/Y	563.2	447.3	105.4	233.5	108.4	0.0	93.0	22.9	4.0
NDTX113461-1Rpinto	TXW/Y	547.6	54.2	54.2	0.0	0.0	0.0	493.4	0.0	3.0
TX12471-5W/Y	TXW/Y	486.1	258.4	107.6	61.5	89.3	9.5	174.6	43.6	3.4
NDTX113438CB-1WRSPL	TXW/Y	483.6	191.4	143.3	48.1	0.0	0.0	281.3	10.8	3.3
AORTX11913-3Wre/Y	TXW/Y	430.7	218.2	168.6	49.6	0.0	0.0	193.3	19.2	3.4
COTX07382-2W/Y	TXW/Y	423.9	311.1	49.8	139.1	122.3	5.5	65.5	41.7	3.2
COTX05249-3WRE/Y	TXW/Y	388.2	218.9	105.2	54.4	59.3	0.0	125.4	43.9	2.0
COTX10097-2W/Y	TXW/Y	378.1	263.0	97.6	103.4	62.0	2.2	79.8	33.1	3.6
Yukon Gold	WR	353.6	296.5	100.8	104.9	90.8	0.0	38.6	18.5	3.7
COTX11130-1WRE/Y	TXW/Y	337.5	175.7	124.5	51.2	0.0	0.0	134.0	27.8	3.0
COTX10138-8W/Ypinto	TXW/Y	263.6	172.8	98.1	38.1	36.6	0.0	61.5	29.3	3.3
COTX11140-2WRE/Y	TXW/Y	206.5	148.6	65.2	46.9	36.6	0.0	57.8	0.0	3.3
NDTX059759-3RY/Y Pinto	TXW/Y	165.6	94.1	52.9	41.2	0.0	0.0	69.4	2.2	4.0
Average L.S.D. (.05)		386.8	219.3	97.9	74.8	46.6	1.3	143.7	22.5	3.3

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

Dalhart  
Table 14b.

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 White/Yellow 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				
BTX1749-1W/Y	TXW/Y	79.4	18.7	41.5	19.2	0.0	16.5	4.1	1.070	15.0	Long	White
NDTX113461-1Rpinto	TXW/Y	9.9	9.9	0.0	0.0	0.0	90.1	0.0	1.054	12.1	Oblong	White
TX12471-5W/Y	TXW/Y	53.2	22.1	12.7	18.4	2.0	35.9	9.0	1.061	13.4	Oblong	White
NDTX113438CB-1WRSPL	TXW/Y	39.6	29.6	10.0	0.0	0.0	58.2	2.2	1.041	9.8	Oblong	White
AORTX11913-3Wre/Y	TXW/Y	50.7	39.1	11.5	0.0	0.0	44.9	4.5	1.050	11.5	Oblong	White
COTX07382-2W/Y	TXW/Y	73.4	11.7	32.8	28.8	1.3	15.5	9.8	1.070	15.0	Long	White
COTX05249-3WRE/Y	TXW/Y	56.4	27.1	14.0	15.3	0.0	32.3	11.3	1.054	12.2	Long	White
COTX10097-2W/Y	TXW/Y	69.6	25.8	27.3	16.4	0.6	21.1	8.8	1.070	15.0	Long	White
Yukon Gold	WR	83.9	28.5	29.7	25.7	0.0	10.9	5.2	1.069	14.8	Oblong	White
COTX11130-1WRE/Y	TXW/Y	52.1	36.9	15.2	0.0	0.0	39.7	8.2	1.067	14.4	Round	White
COTX10138-8W/Ypinto	TXW/Y	65.6	37.2	14.4	13.9	0.0	23.3	11.1	1.054	12.1	Long	White
COTX11140-2WRE/Y	TXW/Y	72.0	31.6	22.7	17.7	0.0	28.0	0.0	1.061	13.3	Oblong	White
NDTX059759-3RY/Y Pinto	TXW/Y	56.8	31.9	24.9	0.0	0.0	41.9	1.3	1.053	11.9	Oblong	White
Average L.S.D. (.05)		58.6	26.9	19.7	12.0	0.3	35.3	5.8	1.059	13.1		

Dalhart  
Table 14c.

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 White/Yellow 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>	
BTX1749-1W/Y	TXW/Y	7.6	5.4	100	2.0	4.5	4.6	4.5	6
NDTX113461-1Rpinto	TXW/Y	25.9	1.5	100	2.0	4.5	4.5	4.5	0
TX12471-5W/Y	TXW/Y	11.7	3.1	100	2.0	4.3	4.0	4.3	13
NDTX113438CB-1WRSPL	TXW/Y	13.3	2.7	100	2.0	4.0	3.8	4.0	17
AORTX11913-3Wre/Y	TXW/Y	12.1	2.6	100	2.0	4.5	4.5	4.5	0
COTX07382-2W/Y	TXW/Y	5.8	5.4	100	2.0	3.6	4.0	3.7	28
COTX05249-3WRE/Y	TXW/Y	8.1	3.6	100	2.0	4.5	4.5	4.5	3
COTX10097-2W/Y	TXW/Y	6.3	4.3	100	2.0	4.3	4.0	4.3	7
Yukon Gold	WR	5.2	4.9	100	2.0	3.9	3.9	3.9	3
COTX11130-1WRE/Y	TXW/Y	8.8	2.8	100	2.0	4.5	4.5	4.5	0
COTX10138-8W/Ypinto	TXW/Y	4.2	4.6	98	2.0	3.9	4.5	3.9	0
COTX11140-2WRE/Y	TXW/Y	4.0	3.8	100	2.0	4.0	4.0	4.0	0
NDTX059759-3RY/Y Pinto	TXW/Y	4.2	2.9	100	2.0	4.5	4.5	4.5	0
Average L.S.D. (.05)		9.0	3.7	100	2.0	4.2	4.2	4.2	6

<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 14d.

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 White/Yellow 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
BTX1749-1W/Y	TXW/Y	3.5	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
NDTX113461-1Rpinto	TXW/Y	1.0	3.0	1.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12471-5W/Y	TXW/Y	3.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113438CB-1WRSP	TXW/Y	1.0	3.0	1.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11913-3Wre/Y	TXW/Y	1.0	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	2.5	3.5	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	3.5	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	3.5	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Yukon Gold	WR	2.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX11130-1WRE/Y	TXW/Y	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10138-8W/Ypinto	TXW/Y	3.0	3.5	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX11140-2WRE/Y	TXW/Y	3.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059759-3RY/Y Pint	TXW/Y	3.0	3.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.5	3.0	1.0	4.0	1.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 14e.

Notes and general rating for all reps of 14 entries in the Texas Advanced White/Yellow Selection  
Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Notes Grading	General Rating Grading
BTX1749-1W/Y	TXW/Y	, , , yield+, oversized, nice shape, BOT+	4, 4, 4, 3.8
NDTX113461-1Rpinto	TXW/Y	small parent, B's, , ,	3, 3, 3, 3
TX12471-5W/Y	TXW/Y	, , high set, small, nice flesh Keep,	3.4, 3.4, 3.4, 3.4
NDTX113438CB-1WRSP	TXW/Y	high yield, smooth, Red splash, Keep??, , , white flesh, high yield, , red eyes, smooth, nice shape,	3.5, 3.3, 3, 3.5
AORTX11913-3Wre/Y	TXW/Y	Keep++, some rough	3.3, 3.4, 3.6, 3.3
COTX07382-2W/Y	TXW/Y	, , oversized, knobs Drop+,	3.4, 3, 3.2, 3.3
COTX05249-3WRE/Y	TXW/Y	, , Drop+++, mixed flesh, not red eye	2, 2, 2, 2
COTX10097-2W/Y	TXW/Y	smooth, some rough, , nice flesh, Keep+,	3.8, 3.8, 3.3, 3.4
Yukon Gold	WR	, , , oversized, nice shape	3.6, 3.7, 3.7, 3.7
COTX11130-1WRE/Y	TXW/Y	deep eyes, Drop++, , ,	3, 3, 3, 3
COTX10138-8W/Ypinto	TXW/Y	heat sprouts, light purple skin, Drop++, smooth, ,	3.3, 3.3, 3.3, 3.3
COTX11140-2WRE/Y	TXW/Y	not red eye, Keep??, , ,	3.3, 3.3, 3.3, 3.3
NDTX059759-3RY/Y Pint	TXW/Y	, , , nice red skin, low yield, BOT	4, 4, 4, 4

## **2014 White/Yellow Selections Trial, Dalhart**

The trial consisted of 29 entries of which (ATX08120-1W/Y, TX13531-1W/Y, TX13539-2W/Y, and TX13561-1Pinto/Y).will be advanced in 2016 (Table 15).

Dalhart  
Table 15

Inventory weight of 4 entries to be advanced from  
the 2014 White Skin Yellow Flesh Trial grown near  
Dalhart, Texas-2016.

---

Variety or Selection	Trial	Inventory Weight
A08120-1W/Y	14SEL208	16.2
TX13531-1W/Y	14SEL067	20
TX13539-2W/Y	14SEL124	21.6
TX13561-1Pinto/Y	14SEL159	10.6

---



## Texas Advanced Small Potato Selection Trial, Dalhart

This trial consisted of forty five entries.

Results were as follows: (Dalhart Tables 16a, 16b, 16c, 16d, and 16e)

- ATX06264S-4R/Y, COTX04193S-2R/Y, ATX08117-3P, NDTX102816CABS-1W, ATTX05175S-1R/Y, AORTX11913-6P/Y, TX12471-6W/Y, and NDTX081451CBS-1Y/Y were the outstanding entries based on general ratings and best of trial notations, while TX12494-1R/Y, COTX10226S-1W/Y, COTX10073S-1W, TX12472-1R/Y, NDTX113037C-2W, ATX05186S-1R, NDTX102639CS-1W, NDTX071258BS-1R, AORTX11468-1W, AORTX11913-5P, TX09406S-1P/P, AORTX11913-4P, and ATX11039-1W also received high general ratings (Tables 16a and 16e).
- NDTX081451CBS-1Y/Y had the highest total yield (Table 16a)
- AORTX11913-5P, NDTX113460C-3W, COTX10138S-7W/Y, COTX10226S-1W/Y, NDTX113461-2R, NDTX092238CS-4P/W, NDTX102816CABS-1W, COTX04050S-1P/P, NDTX092238CS-3P/W, TX12471-4R/Y, TX12472-1R/Y, ATX05186S-1R, NDTX081451CBS-1Y/Y, ATX06264S-4R/Y, NDTX102639CS-1W, ATTX05175S-1R/Y, ATX08117-3P, and AORTX11913-8WRE/Y had the highest average number of tubers per plant (Table 16c).
- All the entries were medium to very late in maturity (Table 16c).
- COTX10226S-1W/Y, COTX04193S-2R/Y, ATTX05175S-1R/Y, and TX12494-1R/Y had the darkest yellow flesh. TX09406S-1P/P and COTX04050S-1P/P had very dark purple flesh (Table 16d).

### Comments on entries:

- NDTX081451CBS-1Y/Y Oblong White "Lucy's Notes: Cylindrical shape. Nice smooth external skin. Planting it with the correct, spacing could bring good potential for small bites. Nice yellow flesh. Keep for chip, Small and WH/Y trial , BOT, high yield, FC=2.7
- TX12471-4R/Y Oblong Red heat sprouts, DROP++, FC=3.0
- AORTX09147-1W Oblong White did not Chip, DROP, FC=1.0
- NDTX092238CS-4P/W Round Purple lenticels, deep eyes, DROP++++, FC=1.0

- AORTX11913-5P      Round   Purple   high yield, silver scurf, variable size, heavy set, some vascular discoloration, stem attachment, Keep, FC=1.0
- NDTX102639CS-1W   Oblong   White   move to chip, fast track, Keep for chip, FC=1.0
- NDTX092238CS-3P/W   Oblong   Purple   nice white flesh, deep eyes, poor skin finish, DROP+, FC=1.0
- COTX10138S-7W/Y   Round   White   poor shape, yellow flesh, mixed flesh, discard Purple eyes, Keep, FC=2.8
- NDTX113461-2R      Round   Red      nice size, DROP++, FC=1.0
- ATX06264S-4R/Y      Oblong   Red      "Lucy's Notes: Nice uniform set. Great smooth bright skin. Flesh intense yellow. I really like this variety. " nice flesh color, both small trial and R/Y, BOT+ FC=3.0
- NDTX092238CS-1P/W   Round   Purple   poor skin finish, DROP++, FC=1.0
- ATX05186S-1R      Round   Red      "Lucy's Notes: Round shape. Nice external red color. Good skin set. Few evident eyes. The small tubers have a great round shape with good potential for bites. "Keep, send to Kelly, nice skin, vascular discoloration, FC=1.0
- COTX10226S-1W/Y   Round   White   uniform size, small, very nice flesh, small trial and WH/Y trial, red splash, heavy set, FC=4.0
- NDTX059886S-1W/Y   Oblong   White   did not chip, move to WH/Y trial, high yield, FC=2.5
- NDTX113037C-2W      Round   White   did not chip, send to Larisa, Keep for small, FC=1.0
- AORTX11913-8WRE/Y   Round   White   red splash, move to WH/Y, vascular discoloration, nice internals, FC=3.0
- NDTX102816CABS-1W   Round   White   nice size and flesh, uniform small, high set, Keep for chip and Small, BOT, FC=1.0
- ATX08121-1R/Y      Round   Red      poor shape, light skin color, DROP, FC=3.0
- COTX04050S-1P/P      Round   Purple   Keep for chip, FC=4.0
- AORTX11913-6P/Y      Round   Purple   "Lucy's Notes: Skin light purple with some reddish tones. Around eyes more intense purple color make it attractive. Flesh light yellow/white. nice skin finish, too large move to P/Y trial, feathering, BOT, FC=3.5
- COTX04193S-2R/Y      Round   Red      "Lucy's Notes: Nice round shape. Even set and good number of tubers. Some tubers with evident eyes. Nice

- external color but rough feeling (SS/BD?). Nice yellow flesh color. Good potential. " BOT, FC=4.0
- NDTX113460C-3W Round White poor skin finish, DROP, FC=1.0
  - ATX11469-2W Round White DROP, did not chip, poor skin finish, FC=1.0
  - ATX11039-1W Round White DROP, did not chip, FC=1.0
  - TX09406S-1P/P Round Purple did not chip, Keep for small, feathering, lenticels, FC=4.0
  - ATTX05175S-1R/Y Round Red "Lucy's Notes: External color dull. It doesn't look attractive. Round small tubers. Rhizoctonia sensitive. Skin with Black Dot/Silver Scurf lesions. " BOT++, FC=4.0
  - ATX08117-3P Round Purple "Lucy's Notes: Bright nice external purple color. Uniform small tuber set. Some tubers with smooth pear shape. White flesh. I like it ." nice skin finish, BOT, FC=1.0
  - NDTX071258BS-1R Round Red "Lucy's Notes: Nice external red color. Even round set. Only one tuber with some Black dot-Silver Scurf lesions. Shape remind me of Nicolet." uniform small, lenticels, send to Kelly, FC=1.0
  - AORTX11468-1W Round White nice size, Keep, FC=1.0
  - TX11448S-4R Oblong Red Rhizoctonia, DROP++, FC=1.0
  - TX12471-6W/Y Oblong White very small size, BOT, FC=3.5
  - AORTX11913-4P Round Purple nice skin and flesh, Keep, FC=1.0
  - COTX10073S-1W Round White "Lucy's Notes: Nice small round even set. White flesh. Good potential for bites." did not chip, baby baker, uniform small, send to Kelly, Keep for Small trial, FC=1.0
  - COTX11140-3W/Y Round White deep eyes, DROP, FC=2.0
  - NDTX113432C-2R Round Red vascular discoloration, DROP, FC=1.0
  - AORTX11914-4W Round White poor internals, DROP, FC=1.0
  - TX12472-1R/Y Round Red DROP++, FC=3.5
  - TX12494-1R/Y Round Red nice skin and flesh, Keep, FC=4
  - NDTX050169-1R Round Red feathering, BOT, FC=1.0

- COTX11140-1W/Y Oblong White light set, DROP, FC=2.5
- ATX08098-1W Round White light set, DROP, FC=1.5
- COTX10065-3W Round White light set, poor flesh, DROP, FC=1
- AORTX11513-1W Round White nice internals, Keep, FC=1
- COTX11267-2WRE/Y Round White stem attachments, vascular discoloration, DROP, FC=2
- TX12475-1P/P Round Purple DROP, did not chip, FC=3.8

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

Summary:

ATX06264S-4R/Y, COTX04193S-2R/Y, ATX08117-3P, NDTX102816CABS-1W, ATTX05175S-1R/Y, AORTX11913-6P/Y, TX12471-6W/Y, NDTX081451CBS-1Y/Y, and NDTX050169-1R were the outstanding entries based on all factors,

Dalhart  
Table 16a. Total yield, average number of tubers per plant, average tuber weight, general rating, tuber type, and skin type of 45 entries in the Texas Advanced Small Potato Selection Trial, Texas-2015.

Variety or Selection	Trial	Total Yield Cwt/A	Average Number Tubers/ Plant	Average Tuber Weight In oz.	General Rating <sup>1</sup> Grading	Specific Gravity	% Solids	Tuber Type	Skin Type
AORTX11913-5P	TXSM	478.4	19.9	1.8	3.9	1.050	11.4	Round	Purple
NDTX113460C-3W	TXSM	275.3	16.1	1.2	2.5	ND	ND	Round	White
COTX10138S-7W/Y	TXSM	392.4	14.1	2.0	3.5	1.062	13.6	Round	White
COTX10226S-1W/Y	TXSM	360.9	14.1	1.9	4.5	1.058	12.8	Round	White
NDTX113461-2R	TXSM	387.5	13.7	2.1	2.0	1.052	11.8	Round	Red
NDTX092238CS-4P/W	TXSM	485.9	13.5	2.6	2.0	1.067	14.4	Round	Purple
NDTX102816CABS-1W	TXSM	335.7	12.3	2.0	4.4	1.088	18.2	Round	White
COTX04050S-1P/P	TXSM	308.6	11.9	1.9	3.0	1.064	13.9	Round	Purple
NDTX092238CS-3P/W	TXSM	416.2	11.8	2.6	3.1	1.067	14.4	Oblong	Purple
TX12471-4R/Y	TXSM	497.1	11.6	3.1	2.0	1.054	12.2	Oblong	Red
TX12472-1R/Y	TXSM	175.0	11.5	1.1	4.5	ND	ND	Round	Red
ATX05186S-1R	TXSM	373.0	11.2	2.4	4.2	1.058	12.9	Round	Red
NDTX081451CBS-1Y/Y	TXSM	541.4	11.0	3.6	3.7	1.075	15.9	Oblong	White
ATX06264S-4R/Y	TXSM	382.7	10.9	2.6	4.5	1.059	13.0	Oblong	Red
NDTX102639CS-1W	TXSM	467.1	10.5	3.3	4.1	1.062	13.5	Oblong	White
ATTX05175S-1R/Y	TXSM	254.6	10.3	1.8	4.4	1.059	13.1	Round	Red
ATX08117-3P	TXSM	247.1	10.2	1.8	4.5	1.048	11.0	Round	Red
AORTX11913-8WRE/Y	TXSM	336.8	10.0	2.5	3.0	1.062	13.5	Round	White
NDTX092238CS-1P/W	TXSM	376.8	9.9	2.8	2.5	1.061	13.4	Round	Purple
ATX11039-1W	TXSM	254.8	9.8	1.9	3.7	1.073	15.6	Round	White
COTX10073S-1W	TXSM	215.2	9.5	1.7	4.5	1.066	14.2	Round	Purple
ATX11469-2W	TXSM	265.0	9.2	2.1	3.0	1.062	13.6	Round	White
NDTX071258BS-1R	TXSM	240.1	8.8	2.2	4.0	1.035	8.8	Round	Purple
AORTX09147-1W	TXSM	493.4	8.7	4.1	2.0	ND	ND	Oblong	White
AORTX11913-4P	TXSM	219.6	8.5	1.9	3.8	1.056	12.5	Oblong	White
AORTX11468-1W	TXSM	239.4	8.3	2.1	4.0	ND	ND	Round	Red
COTX04193S-2R/Y	TXSM	275.3	8.2	2.4	4.5	ND	ND	Round	Red
NDTX059886S-1W/Y	TXSM	349.6	8.1	3.1	3.5	1.063	13.7	Oblong	White
AORTX11913-6P/Y	TXSM	302.4	8.0	2.8	4.0	1.049	11.2	Round	Purple
COTX11140-3W/Y	TXSM	214.5	7.6	2.0	3.0	1.078	16.4	Round	White
TX09406S-1P/P	TXSM	254.8	7.6	2.4	3.9	1.061	13.5	Round	Purple
TX12471-6W/Y	TXSM	221.1	7.5	2.2	3.8	ND	ND	Oblong	Red
NDTX113432C-2R	TXSM	207.9	7.3	2.1	2.5	ND	ND	Round	White
NDTX113037C-2W	TXSM	342.8	7.1	3.8	4.3	1.067	14.4	Round	White
TX11448S-4R	TXSM	222.6	6.7	2.4	2.0	ND	ND	Round	White
AORTX11914-4W	TXSM	206.5	6.0	2.5	3.0	ND	ND	Round	Red
ATX08121-1R/Y	TXSM	334.6	4.8	5.0	2.0	1.056	12.5	Round	Red
Average		351.2	11.6	2.3	3.5	1.061	13.4		
L.S.D. (.05)									

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

Dalhart  
Table 16a.

Total yield, average number of tubers per plant, average tuber weight, general rating, tuber type, and skin type of 45 entries in the Texas Advanced Small Potato Selection Trial, Texas-2015.

Variety or Selection	Trial	Total Yield Cwt/A	Average Number Tubers/ Plant	Average Tuber Weight In oz.	General Rating <sup>1</sup> Grading	Specific Gravity	% Solids	Tuber Type	Skin Type
TX12494-1R/Y	TXSM	144.2	6.0	1.8	4.0	ND	ND	Round	Red
NDTX050169-1R	TXSM	120.8	5.8	1.5	4.5	ND	ND	Round	Red
COTX11140-1W/Y	TXSM	117.1	2.4	3.6	2.0	ND	ND	Oblong	White
ATX08098-1W	TXSM	112.7	4.0	2.0	3.0	ND	ND	Round	White
COTX10065-3W	TXSM	104.0	7.6	2.0	3.0	ND	ND	Round	White
AORTX11513-1W	TXSM	95.2	7.5	0.9	3.5	ND	ND	Round	White
COTX11267-2WRE/Y	TXSM	41.0	3.6	0.8	3.0	1.060	13.3	Round	White
TX12475-1P/P	TXSM	27.1	1.9	1.1	2.0	ND	ND	Round	Purple
Average L.S.D. (.05)		371.5	11.0	2.6	3.3	1.062	13.6		

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

Dalhart  
Table 16b.

Percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 45 entries in the Texas Advanced Small Potato Selection Trial, Texas-2015.

Variety or Selection	Trial	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	TXSM	100	2.0	3.5	3.5	3.5	12
TX12471-4R/Y	TXSM	100	2.0	3.6	3.8	3.6	0
AORTX09147-1W	TXSM	100	2.0	4.0	4.5	3.8	0
NDTX092238CS-4P/W	TXSM	100	2.0	4.7	4.7	4.6	9
AORTX11913-5P	TXSM	100	2.0	4.6	4.7	4.7	0
NDTX102639CS-1W	TXSM	100	2.0	4.3	4.0	4.3	1
NDTX092238CS-3P/W	TXSM	100	2.0	4.5	4.5	4.5	3
COTX10138S-7W/Y	TXSM	100	2.0	4.0	4.5	4.0	25
NDTX113461-2R	TXSM	100	2.0	4.5	4.5	4.5	9
ATX06264S-4R/Y	TXSM	100	2.0	4.1	4.1	4.1	1
NDTX092238CS-1P/W	TXSM	100	2.0	4.5	4.5	4.5	4
ATX05186S-1R	TXSM	100	2.0	3.9	3.9	3.8	0
COTX10226S-1W/Y	TXSM	100	2.0	4.5	4.5	4.5	0
NDTX059886S-1W/Y	TXSM	100	2.0	4.5	4.5	4.5	0
NDTX113037C-2W	TXSM	100	2.0	4.9	4.9	4.8	0
AORTX11913-8WRE/Y	TXSM	100	2.0	4.7	4.7	4.7	0
NDTX102816CABS-1W	TXSM	100	2.0	4.8	4.8	4.8	4
ATX08121-1R/Y	TXSM	100	2.0	4.7	4.5	4.5	0
COTX04050S-1P/P	TXSM	100	2.0	4.3	4.6	4.3	0
AORTX11913-6P/Y	TXSM	100	2.0	4.5	4.5	4.5	0
COTX04193S-2R/Y	TXSM	100	2.0	3.7	3.5	3.7	0
NDTX113460C-3W	TXSM	100	2.0	3.5	3.5	3.5	25
ATX11469-2W	TXSM	100	2.0	4.5	4.8	4.5	0
ATX11039-1W	TXSM	100	2.0	4.0	4.3	4.0	3
TX09406S-1P/P	TXSM	100	2.3	3.0	4.3	3.3	3
ATTX05175S-1R/Y	TXSM	100	2.0	4.5	4.0	4.0	0
ATX08117-3P	TXSM	100	2.0	4.6	5.0	4.5	0
NDTX071258BS-1R	TXSM	92	2.0	3.8	4.0	3.7	20
AORTX11468-1W	TXSM	100	2.0	4.5	4.5	4.5	0
TX11448S-4R	TXSM	100	2.0	3.5	3.5	3.5	0
TX12471-6W/Y	TXSM	100	2.0	3.5	3.5	3.5	0
AORTX11913-4P	TXSM	100	2.0	4.7	4.7	4.9	0
COTX10073S-1W	TXSM	100	2.0	4.4	4.5	4.1	0
COTX11140-3W/Y	TXSM	100	2.0	3.5	4.0	3.5	0
NDTX113432C-2R	TXSM	100	2.0	3.5	3.5	3.5	0
AORTX11914-4W	TXSM	100	2.0	4.0	4.5	4.0	0
TX12472-1R/Y	TXSM	100	2.0	3.5	3.5	3.5	0
Average		100	2.0	4.2	4.3	4.2	4
L.S.D. (.05)							

<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 16b.

Percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 45 entries in the Texas Advanced Small Potato Selection Trial, Texas-2015.

Variety or Selection	Trial	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>	
TX12494-1R/Y	TXSM	100	2.0	3.5	3.5	3.5	0
NDTX050169-1R	TXSM	100	2.0	3.5	3.5	3.5	0
COTX11140-1W/Y	TXSM	100	2.0	3.5	4.0	3.5	0
ATX08098-1W	TXSM	100	2.0	4.5	4.0	4.5	0
COTX10065-3W	TXSM	50	2.0	2.0	4.0	2.0	0
AORTX11513-1W	TXSM	100	2.0	4.5	4.5	4.0	25
COTX11267-2WRE/Y	TXSM	100	2.0	4.5	4.5	4.5	0
TX12475-1P/P	TXSM	100	2.0	3.8	4.5	3.8	0
Average		94	2.0	3.7	4.1	3.7	3
L.S.D. (.05)							

<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 16c.

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 45 entries in the Texas Advanced Small Potato Selection Trial, 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
NDTX081451CBS-1Y/Y	TXSM	2.7	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12471-4R/Y	TXSM	3.0	3.0	1.0	4.0	3.8	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
NDTX092238CS-4P/W	TXSM	1.0	2.0	1.0	3.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11913-5P	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
NDTX102639CS-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
NDTX092238CS-3P/W	TXSM	1.0	3.0	1.0	2.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10138S-7W/Y	TXSM	2.8	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113461-2R	TXSM	1.0	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX06264S-4R/Y	TXSM	3.0	3.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX092238CS-1P/W	TXSM	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05186S-1R	TXSM	1.0	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10226S-1W/Y	TXSM	4.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059886S-1W/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
NDTX113037C-2W	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
AORTX11913-8WRE/Y	TXSM	3.0	2.0	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
NDTX102816CABS-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
ATX08121-1R/Y	TXSM	3.0	2.0	1.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04050S-1P/P	TXSM	4.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11913-6P/Y	TXSM	3.5	2.0	1.0	3.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04193S-2R/Y	TXSM	4.0	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113460C-3W	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
ATX11469-2W	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
ATX11039-1W	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
TX09406S-1P/P	TXSM	4.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05175S-1R/Y	TXSM	4.0	2.0	1.0	4.0	3.5	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
NDTX071258BS-1R	TXSM	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11468-1W	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
TX11448S-4R	TXSM	1.0	3.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12471-6W/Y	TXSM	3.5	3.0	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	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	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
COTX11140-3W/Y	TXSM	2.0	2.0	1.0	2.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113432C-2R	TXSM	1.0	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11914-4W	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
TX12472-1R/Y	TXSM	3.5	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.0	2.2	1.0	3.8	2.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 16c.

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 45 entries in the Texas Advanced Small Potato Selection Trial, 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
TX12494-1R/Y	TXSM	4.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050169-1R	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
COTX11140-1W/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
ATX08098-1W	TXSM	1.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10065-3W	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
AORTX11513-1W	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
COTX11267-2WRE/Y	TXSM	2.0	2.0	1.0	4.0	6.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12475-1P/P	TXSM	3.8	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.1	2.1	1.0	4.0	2.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 16d.

Notes and general rating for all reps of 45 entries in the Texas Advanced Small Potato Selection Trial, Texas-2015.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Grading
NDTX081451CBS-1Y/Y	TXSM	Lucy's Notes: Cylindrical shape. Nice smooth external skin. Planting it with the correct	Keep for chip, Small and WH/Y trial , , , BOT, high yield	4.5, 3.7, 2, 4.5
TX12471-4R/Y	TXSM	, , ,	heat sprouts, Drop++, , ,	2, 2, 2, 2
AORTX09147-1W	TXSM	, , ,	DROP, did not Chip, , ,	2, 2, 2, 2
NDTX092238CS-4P/W	TXSM	, , ,	, lenticels, , deep eyes, Drop++++	2, 2, 2, 2
AORTX11913-5P	TXSM	, , ,	, high yield, silver scurf, variable size, heavy set, Keep, some vascular discoloration, stem attachment	3.9, 3.8, 4, 3.8
NDTX102639CS-1W	TXSM	, , ,	Keep for chip, move to chip, fast track, , ,	4.5, 4, 4, 4
NDTX092238CS-3P/W	TXSM	, , ,	nice white flesh, deep eyes, , , Drop+, poor skin finish, , poor shape, Keep, yellow flesh, mixed flesh, discard	3.8, 2.5, 3, 3
COTX10138S-7W/Y	TXSM	, , ,	Purple eyes	4, 2.5, 3.5, 4
NDTX113461-2R	TXSM	, , ,	nice size, Drop++, , ,	2, 2, 2, 2
ATX06264S-4R/Y	TXSM	, , , Lucy's Notes: Nice uniform set. Great smooth bright skin. Flesh intense yellow.	, nice flesh color, , both small trial and R/Y, BOT+	4.5, 4.5, 4.5, 4.5
NDTX092238CS-1P/W	TXSM	, , ,	, , Drop++, poor skin finish,	2, 2, 2, 3.8
ATX05186S-1R	TXSM	, , , Lucy's Notes: Round shape. Nice external red color. Good skin set. Few evident eyes.	, , Keep, send to Kelly, nice skin, vascular discoloration uniform size, small, very nice flesh, small trial and WH/Y trial, red splash, heavy set,	4.3, 4, 4, 4.5
COTX10226S-1W/Y	TXSM	, , ,		4.5, 4.5, 4.5, 4.5
NDTX059886S-1W/Y	TXSM	, , ,	did not chip, move to WH/Y trial, high yield, , ,	3.5, 3.5, 3.5, 3.5
NDTX113037C-2W	TXSM	, , ,	did not chip, send to Larisa, , , Keep for small red splash, move to WH/Y, , vascular discoloration, nice	4.5, 4, 4, 4.5
AORTX11913-8WRE/Y	TXSM	, , ,	internals,	3, 3, 3, 3
NDTX102816CABS-1W	TXSM	, , ,	nice size and flesh, , uniform small, high set, BOT, Keep for chip and Small	4.4, 4.5, 4.4, 4.4
ATX08121-1R/Y	TXSM	, , ,	, , poor shape, light shin color, Drop,	2, 2, 2, 2
COTX04050S-1P/P	TXSM	, , ,	Keep for chip, , ,	3, 3, 3, 3
AORTX11913-6P/Y	TXSM	, , , Lucy's Notes: Skin light purple with some reddish tones. Around eyes more intense	nice skin finish, BOT, , too large move to P/Y trial, feathering,	4, 4, 4, 4
COTX04193S-2R/Y	TXSM	Lucy's Notes: Nice round shape. Even set and good number of tubers. Some tubers with	BOT, , ,	4.5, 4.5, 4.5, 4.5
NDTX113460C-3W	TXSM	, , ,	poor skin finish, Drop, , ,	2.5, 2.5, 2.5, 2.5
ATX11469-2W	TXSM	, , ,	DROP, did not chip, poor skin finish, , ,	3, 3, 3, 3
ATX11039-1W	TXSM	, , ,	, , DROP, did not chip,	3.7, 3.7, 3.7, 3.7
TX09406S-1P/P	TXSM	, , ,	did not chip, Keep for small, feathering, lenticels, ,	3.5, 4.5, 4, 3.5
ATTX05175S-1R/Y	TXSM	, , , Lucy's Notes: External color dull. It doesn't look attractive. Round small tubers.	, , , BOT++	4.3, 4.3, 4.5, 4.3
ATX08117-3P	TXSM	Lucy's Notes: Bright nice external purple color. Uniform small tuber set. Some tubers with	nice skin finish, BOT, , ,	4.5, 4.5, 4.5, 4.5
NDTX071258BS-1R	TXSM	, , , Lucy's Notes: Nice external red color. Even round set. Only one tuber with some	, , uniform small, lenticels, send to Kelly,	4, 4, 4, 4
AORTX11468-1W	TXSM	, , ,	nice size, Keep, , ,	4, 4, 4, 4
TX11448S-4R	TXSM	, , ,	Rhizoctonia, Drop++, , ,	2, 2, 2, 2
TX12471-6W/Y	TXSM	, , ,	very small size, BOT, , ,	3.8, 3.8, 3.8, 3.8
AORTX11913-4P	TXSM	, , ,	nice skin and flesh, Keep, , ,	3.8, 3.8, 3.8, 3.8
COTX10073S-1W	TXSM	Lucy's Notes: Nice small round even set. White flesh. Good potential for bites.	, did not chip, Keep for Small trial, baby baker, uniform small, send to Kelly	4.5, 4.5, 4.5, 4.5
COTX11140-3W/Y	TXSM	, , ,	, , deep eyes, Drop,	3, 3, 3, 3
NDTX113432C-2R	TXSM	, , ,	vascular discoloration, Drop, , ,	2.5, 2.5, 2.5, 2.5
AORTX11914-4W	TXSM	, , ,	poor internals, Drop, , ,	3, 3, 3, 3
TX12472-1R/Y	TXSM	, , ,	Drop++, , ,	4.5, 4.5, 4.5, 4.5

Dalhart  
Table 16d.

Notes and general rating for all reps of 45 entries in the Texas Advanced Small Potato Selection  
Trial, Texas-2015.

Variety or Selection	Trial	Notes Grading	General Rating Grading
TX12494-1R/Y	TXSM	nice skin and flesh, Keep, , ,	4, 4, 4, 4
NDTX050169-1R	TXSM	feathering, BOT, , ,	4.5, 4.5, 4.5, 4.5
COTX11140-1W/Y	TXSM	Drop, light set, , ,	2, 2, 2, 2
ATX08098-1W	TXSM	light set, Drop, , ,	3, 3, 3, 3
COTX10065-3W	TXSM	light set, poor flesh, Drop, , ,	3, 3, 3, 3
AORTX11513-1W	TXSM	nice internals, Keep, , ,	3.5, 3.5, 3.5, 3.5
COTX11267-2WRE/Y	TXSM	, , stem attachments, vascular discoloration, Drop,	3, 3, 3, 3
TX12475-1P/P	TXSM	DROP, did not chip, , ,	2, 2, 2, 2

## **2014 Small Potato Selections Trial, Dalhart**

The trial consisted of 12 entries of which (NDTX12130CB-1W, NDTX1287B-1W, TX13539-4R/Y, TX13565-2W, TX13582-3W, TX13582-4W, and TX13582-5W).will be advanced in 2016 (Table 17).

Dalhart  
Table 17

Inventory weight of 7 entries to be advanced from the  
2014 Small Potato Selection Trial grown near Dalhart,  
Texas-2016.

---

Variety or Selection	Trial	Inventory Weight
ND12130CB-1W	14SEL226	3.9
ND1287B-1W	14SEL233	3
TX13539-4R/Y	14SEL126	17
TX13565-2W	14SEL118	2.3
TX13582-3W	14SEL077	3.6
TX13582-4W	14SEL078	3.9
TX13582-5W	14SEL079	3.6

## Texas Advanced Fingerling Selection Trial, Dalhart

This trial consisted of eight entries, including the check varieties Banana.

Results were as follows: (Dalhart Tables 18a, 18b, 18c, 18d, and 18e)

- COTX08365F-1P/P was the outstanding entry for this trial based on general rating and best of trial notation, while COTX08365F-3P/P also received a high general rating (Table 18a).
- AORTX11084-1Ru had the highest total and marketable yield (Table 18a)
- AORTX11084-1Ru had the highest yield of undersized tubers. COTX11042-1W had the highest yield of culls/No. 2 tubers (Table 18a).
- COTX08365F-3P/P had the highest percentage of marketable yield. COTX11042-1W had the highest percentage of culls/No. 2 tubers (Table 18b).
- Banana had the highest percentage of culls/No. 2 tubers (Table 18b).
- AORTX11084-1Ru had the highest average number of tubers per plant (Table 18c).
- All of the entries were early in maturity, except for AORTX10119-1W and Banana (Table 18c).

### Comments on entries:

- AORTX11084-1Ru Long Russet oversized, DROP, FC=1.0
- COTX11042-1W Long White oversized, DROP++, FC=1.0
- AORTX10119-1W Long White Keep, white flesh, oversized, FC=1.0
- COTX08365F-3P/P Long Purple can oversize, silver scurf, Keep, nice, FC=4.0
- AORTX11234-1W Long White oversized, DROP, FC=1.0
- COTX08044F-1R/R Long Red nice color, poor shape, Keep, rough, FC=3.5
- COTX08365F-1P/P Long Purple silver scurf++, Keep, BOT, FC=4.0
- Banana Long White rough, light set, FC=2.0

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

### Summary:

COTX08365F-1P/P and COTX08365F-3P/P were the outstanding entries based on all factors.

Dalhart  
Table 18a.

Total yield, total yield of U.S. No.1, under sized and culls/No.2 potatoes and general rating of 8 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Total Yield Cwt/A	Marketable Yield	Over Sized	Under Sized	Culls/ No.2	General Rating <sup>1</sup> Grading
AORTX11084-1Ru	TXFG	728.8	359.9	0.0	256.9	112.0	2.0
COTX11042-1W	TXFG	535.8	163.5	0.0	128.4	243.8	2.0
AORTX10119-1W	TXFG	304.7	165.8	0.0	94.8	44.1	3.3
COTX08365F-3P/P	TXFG	291.0	162.0	5.6	119.5	9.5	4.0
AORTX11234-1W	TXFG	283.4	141.9	0.0	88.1	53.4	2.5
COTX08044F-1R/R	TXFG	275.2	122.3	0.0	125.3	27.6	3.4
COTX08365F-1P/P	TXFG	153.1	79.2	6.3	72.1	1.9	4.3
Banana	TXFG	51.7	0.0	0.0	46.5	5.2	3.1
Average		328.0	149.3	1.5	116.4	62.2	3.1
L.S.D. (.05)							

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



Dalhart  
Table 18b.

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 Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Marketable Yield	Percent By Weight			Tuber Type	Skin Type
			Over Sized	Under Sized	Culls/ No. 2		
AORTX11084-1Ru	TXFG	49.4	0.0	35.2	15.4	Long	Russet
COTX11042-1W	TXFG	30.5	0.0	24.0	45.5	Long	White
AORTX10119-1W	TXFG	54.4	0.0	31.1	14.5	Long	White
COTX08365F-3P/P	TXFG	55.7	1.9	41.1	3.3	Long	Purple
AORTX11234-1W	TXFG	50.1	0.0	31.1	18.8	Long	White
COTX08044F-1R/R	TXFG	44.4	0.0	45.5	10.0	Long	Red
COTX08365F-1P/P	TXFG	51.7	4.1	47.1	1.2	Long	Purple
Banana	TXFG	0.0	0.0	89.9	10.1	Long	White
Average		42.0	0.8	43.1	14.9		
L.S.D. (.05)							

Dalhart  
Table 18c.

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 8 entries in the Texas Advanced Fingerling 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>	
AORTX11084-1Ru	TXFG	12.8	4.1	100	2.0	3.5	3.5	3.5	20
COTX11042-1W	TXFG	7.8	4.9	100	2.0	3.5	3.5	3.5	0
AORTX10119-1W	TXFG	6.8	3.2	100	2.0	4.5	4.5	4.0	0
COTX08365F-3P/P	TXFG	7.7	3.0	100	2.0	3.5	3.5	3.5	0
AORTX11234-1W	TXFG	5.1	4.0	100	2.0	3.5	3.5	3.5	0
COTX08044F-1R/R	TXFG	7.6	2.6	100	2.0	3.5	3.5	3.5	0
COTX08365F-1P/P	TXFG	5.8	1.9	100	2.0	3.5	3.5	3.5	0
Banana	TXFG	2.5	1.6	100	2.0	4.0	4.0	4.0	0
Average		7.0	3.2	100	2.0	3.7	3.7	3.6	3
L.S.D. (.05)									

<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 18d.

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 Texas Advanced Fingerling 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
AORTX11084-1Ru	TXFG	1.0	5.0	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX11042-1W	TXFG	1.0	5.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX10119-1W	TXFG	1.0	5.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08365F-3P/P	TXFG	4.0	5.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX11234-1W	TXFG	1.0	5.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08044F-1R/R	TXFG	3.5	5.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08365F-1P/P	TXFG	4.0	5.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Banana	TXFG	2.0	5.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.2	5.0	1.3	4.0	2.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 18e.

Notes and general rating for all reps of 8 entries in the Texas Advanced Fingerling  
Selection Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Notes Grading	General Rating Grading
AORTX11084-1Ru	TXFG	oversized, Drop, , ,	2, 2, 2, 2
COTX11042-1W	TXFG	oversized, Drop++, , ,	2, 2, 2, 2
AORTX10119-1W	TXFG	, , Keep, white flesh, oversized,	3.3, 3.3, 3.3, 3.3
COTX08365F-3P/P	TXFG	, , can oversize, silver scurf, Keep, nice	4, 4, 4, 4
AORTX11234-1W	TXFG	, , oversized, Drop,	2.5, 2.5, 2.5, 2.5
COTX08044F-1R/R	TXFG	nice color, poor shape, Keep, rough, ,	3, 3.5, 3.5, 3.5
COTX08365F-1P/P	TXFG	Keep, BOT, silver scurf++, ,	4.5, 4, 4, 4.5
Banana	TXFG	rough, light set, , ,	3.5, 3, 3, 3

## **2014 Fingerling Selections Trial, Dalhart**

The trial consisted of 20 entries. (TX13541-2P, TX13544-2R, TX13544-4R/R, and TX13558-4P).will be advanced in the 2016 season (Table 19).

Dalhart  
Table 19

Inventory weight of 4 entries to be advanced from  
the 2014 Fingerling Selection Trial grown near  
Dalhart, Texas-2015.

---

Variety or Selection	Trial	Inventory Weight/# of tubers
TX13541-2P	14SEL	1.4
TX13544-2R	14SEL	14
TX13544-4R/R	14SEL	15.7
TX13558-4P	14SEL	11.6

## Texas Advanced Purple Flesh Selection Trial, Dalhart

This trial consisted of five entries, including the check variety Purple Majesty.

Results were as follows: (Dalhart Tables 20a, 20b, 20c, 20d, and 20e)

- TX12474-1P/R had the highest general rating and a best of trial notation, while NDTX091886-3P/P also had a high general rating (Table 20a and 20e).
- ATTX108402-1P/P had the highest total and marketable, while NDTX091886-3P/P had the highest yield of 4-6 oz. tubers. TX12474-1P/R had the highest yield of less than 4 oz. tubers (Table 20a).
- NDTX091886-3P/P had the highest percentage of marketable yield (Table 20b).
- TX12474-1P/R had the highest percent yield of less than 4 oz. tubers (Table 20b).
- TX09429-1P/P had the highest number of tubers per plant (Table 20c).
- All the entries were late in maturity except TX12474-1P/R (Table 20c).
- ATTX108402-1P/P and TX09429-1P/P had the darkest purple flesh (Table 20d).

### Comments on entries:

- ATTX108402-1P/P Long Purple Lucy's notes: Nice round shape. Good external color. Nice intense purple flesh. Some tubers with black dot /silver scurf skin lesions. Lucy's Chip notes: Purple –White Chips. Overall nice look. One chip with sugar accumulation and other with slight stem end. carotenoid extraction, silver scurf, , growth cracks, keep for chip and flesh, FC=5.0
- NDTX102903-6R/R Oblong Red "Lucy's Chip notes: Nice color after frying similar to Mountain Rose. One chip with UC brown sugar accumulation. It seems to develop sugar spots when frying. Lucy's notes: Red– Red external color. Some misshape tubers. Even set. Some Black dot /Silver Scurf in the skin. Rose-White flesh similar to Mountain Rose, " poor shape, silver scurf, red flesh, DROP+, FC=3.5
- TX09429-1P/P Oblong Purple "Lucy's Chip notes: Really intense purple (probably too dark??). Variable chip color. Needs to be clean. Lucy's

- notes: Purple –Skin with some rough feeling. Cylindrical shape. Intense purple color skin. Some genetic segregation (?). Intense dark purple flesh with color variability, " silver scurf, good shape, very dark flesh, keep for chip and flesh, FC=5.0
- NDTX091886-3P/P Oblong Purple "Lucy's Chip notes: intense purple chip. No defects in the sample. Looks really appealing. I really like it. , Lucy's notes: Purple – Small tubers. Cylindrical shape. Even set. Good external color. Nice intense purple flesh," Keep for chip, FC=3.9
  - TX12474-1P/R Long Purple "Lucy's notes: Red –Nice smooth skin. Red /Purple external color. Some misshape tubers. Nice red flesh color. The tubers are really appealing. , Lucy's Chip notes: Nice Red chips (Fry color more red than Mountain Rose). One chip with slight sugar accumulation. Overall really attractive chip color. I like it." keep for chip, BOT for flesh, silver scurf, FC=4.0

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

Summary:

TX12474-1P/R was the outstanding entry for this trial based on all factors. It will be moved to the chip trial.



Dalhart  
Table 20a.

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  
Flesh 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				
ATTX108402-1P/P	TXPFL	376.3	277.1	127.8	61.5	87.9	0.0	60.8	38.4	2.5
NDTX102903-6R/R	TXPFL	369.9	262.6	169.1	55.5	38.1	0.0	67.2	40.1	2.3
TX09429-1P/P	TXPFL	344.1	241.8	156.9	54.4	30.6	0.0	102.3	0.0	3.3
NDTX091886-3P/P	TXPFL	343.9	255.1	202.6	39.9	12.6	0.0	88.8	0.0	3.7
TX12474-1P/R	TXPFL	247.5	119.3	119.3	0.0	0.0	0.0	128.1	0.0	4.0
Average		336.3	231.2	155.1	42.2	33.8	0.0	89.4	15.7	3.2
L.S.D. (.05)										

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

Dalhart  
Table 20b.

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 Flesh 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				
ATTX108402-1P/P	TXPFL	73.6	33.9	16.3	23.3	0.0	16.1	10.2	1.065	14.1	Long	Purple
NDTX102903-6R/R	TXPFL	71.0	45.7	15.0	10.3	0.0	18.2	10.8	1.055	12.4	Oblong	Red
TX09429-1P/P	TXPFL	70.3	45.6	15.8	8.9	0.0	29.7	0.0	1.064	14.0	Oblong	Purple
NDTX091886-3P/P	TXPFL	74.2	58.9	11.6	3.7	0.0	25.8	0.0	1.074	15.8	Oblong	Purple
TX12474-1P/R	TXPFL	48.2	48.2	0.0	0.0	0.0	51.8	0.0	1.057	12.7	Long	Purple
Average L.S.D. (.05)		67.5	46.5	11.7	9.2	0.0	28.3	4.2	1.063	13.8		

Dalhart  
Table 20c.

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 5 entries in the Texas Advanced Purple Flesh 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>	
ATTX108402-1P/P	TXPFL	6.9	4.0	100	2.0	3.5	4.5	3.5	4
NDTX102903-6R/R	TXPFL	7.3	3.7	100	2.0	3.9	3.9	3.7	50
TX09429-1P/P	TXPFL	8.5	3.0	100	2.0	3.7	4.5	3.8	27
NDTX091886-3P/P	TXPFL	8.3	3.0	100	2.0	4.0	4.0	4.0	15
TX12474-1P/R	TXPFL	7.5	2.4	100	2.0	3.5	3.5	3.5	0
Average		7.7	3.2	100	2.0	3.7	4.1	3.7	19
L.S.D. (.05)									

<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 20d.

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 Flesh 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
ATTX108402-1P/P	TXPFL	5.0	3.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102903-6R/R	TXPFL	3.5	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09429-1P/P	TXPFL	5.0	3.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX091886-3P/P	TXPFL	3.9	2.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12474-1P/R	TXPFL	4.0	3.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		4.3	3.1	1.0	4.0	4.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

<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 20e.

Notes and general rating for all reps of 5 entries in the Texas Advanced Purple Flesh Selection Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Grading
ATTX108402-1P/P	TXPFL	Lucy's notes: Nice round shape. Good external color. Nice intense purple flesh. Some tubers with black dot /silver scurf skin lesions., , Lucy's Chip notes: Purple –White Chips. Overall nice look. One chip with sugar accumulation and other with slight stem end. ,	carotenoid extraction, silver scurf, , growth cracks, keep for chip and flesh,	2.5, 2.5, 2.5, 2.5
NDTX102903-6R/R	TXPFL	, Lucy's Chip notes: Nice color after frying similar to Mountain Rose. One chip with UC brown sugar accumulation. It seen to develop sugar spots when frying. , Lucy's notes: Red– Red external color. Some misshape tubers. Even set. Some Black dot /Silver Scurf in the skin. Rose-White flesh similar to Mountain Rose,	, poor shape, silver scurf, red flesh, Drop+,	2, 2, 3, 2
TX09429-1P/P	TXPFL	Lucy's Chip notes: Really intense purple (probably to dark??) . Variable chip color. Needs to be clean . , , Lucy's notes: Purple –Skin with some rough feeling . Cylindrical shape. Intense purple color skin. Some genetic segregation(?) . Intense dark purple flesh with color variability,	silver scurf, good shape, , very dark flesh, keep for chip and flesh,	3.5, 3.3, 3.5, 3
NDTX091886-3P/P	TXPFL	Lucy's Chip notes: intense purple chip. No defects in the sample. Looks really appealing. I really like it. , Lucy's notes: Purple – Small tubers. Cylindrical shape. Even set. Good external color. Nice intense purple flesh, ,	, Keep for chip, ,	4, 3.6, 3.5, 3.8
TX12474-1P/R	TXPFL	Lucy's notes: Red –Nice smooth skin. Red /Purple external color . Some misshape tubers. Nice red flesh color. The tubers are really appealing. , Lucy's Chip notes: Nice Red chips (Fry color more red than Mountain Rose). One chip with slight sugar accumulation . Overall really attractive chip color. I like it., ,	keep for chip, BOT for flesh, silver scurf, , ,	4, 4, 4, 4

## Texas Advanced Purple Yellow Flesh Selection Trial, Dalhart

This trial consisted of ten entries.

Results were as follows: (Dalhart Tables 21a, 21b, 21c, 21d, and 21e)

- COTX10138-19P/Y had the highest general rating (Table 21a).
- ATTX10265-8P/Y had the highest total yield, while COTX10138-18P/Y has the highest marketable yield and yield of 4-6 oz. tubers. ATX08121-3P/Y had the highest yield of less than 4 oz. tubers (Table 21a).
- ATTX10265-8P/Y had the highest yield of culls/No. 2 tubers (Table 22a).
- TX10437-10P had the highest percentage of marketable yield (Table 21b).
- ATX08121-3P/Y had the highest percentage yield of less than 4 oz. tubers (Table 21b).
- ATTX10265-8P/Y had the highest percentage yield of culls/No. 2 tubers (Table 22b).
- ATX08121-3P/Y had the highest number of tubers per plant (Table 21c).
- All the entries were late in maturity (Table 21c).
- COTX10138-18P/Y and COTX10138-19P/Y had the darkest yellow flesh (Table 21d).

### Comments on entries:

- ATTX10265-8P/Y Long Purple rough, cull+, poor internals, DROP++, FC=2.5
- COTX10138-18P/Y Oblong Purple vascular discoloration, growth cracks, hollow heart, DROP+++, FC=3.5
- COTX10138-19P/Y Round Purple nice skin, uniform, Keep, FC=3.5
- ATX08121-3P/Y Oblong Purple less sliver scurf, deep eyes, Keep, FC=3.0
- ATTX10265-7P/Y Long Purple pointed, DROP, FC=2.5
- ATTX10262-1P Oblong Purple deep eyes, silver scurf, DROP++, FC=1.0
- TX10437-10P Round Purple pointed, white flesh, growth cracks, DROP++, FC=1.0
- ATTX10265-6P/Y Long Purple DROP, FC=2.5
- ATX08117-1P/Y Long Purple small, DROP, FC=2.5
- ATX08117-8P/Y Oblong Purple light set, poor shape, DROP, FC=2.5

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

### Summary:

COTX10138-19P/Y was the outstanding entry for this trial based on all factors.

Dalhart  
Table 21a.

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 Texas Advanced Purple Skin Yellow Flesh 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				
ATX10265-8P/Y	TXP/Y	568.8	340.4	155.9	113.1	71.4	0.0	82.4	146.1	2.0
COTX10138-18P/Y	TXP/Y	544.5	383.4	240.7	71.7	71.0	0.0	141.8	19.2	3.3
COTX10138-19P/Y	TXP/Y	449.5	297.8	208.5	44.5	44.8	0.0	121.7	30.0	3.8
ATX08121-3P/Y	TXP/Y	441.1	184.1	153.7	30.4	0.0	0.0	257.0	0.0	2.8
ATX10265-7P/Y	TXP/Y	335.3	164.0	125.9	38.1	0.0	0.0	142.0	29.3	2.0
ATX10262-1P	TXP/Y	278.2	161.8	127.0	23.4	11.3	0.0	116.4	0.0	2.0
TX10437-10P	TXP/Y	253.7	204.8	85.1	53.6	66.1	0.0	34.2	14.6	2.0
ATX10265-6P/Y	TXP/Y	229.9	87.9	87.9	0.0	0.0	0.0	109.8	32.2	2.5
ATX08117-1P/Y	TXP/Y	196.2	127.4	95.2	32.2	0.0	0.0	68.8	0.0	3.0
ATX08117-8P/Y	TXP/Y	117.1	50.5	32.9	17.6	0.0	0.0	66.6	0.0	2.0
Average		341.4	200.2	131.3	42.5	26.5	0.0	114.1	27.1	2.5
L.S.D. (.05)										

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



Dalhart  
Table 21b.

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 Texas Advanced Purple Skin Yellow Flesh 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				
ATTX10265-8P/Y	TXP/Y	59.8	27.4	19.9	12.5	0.0	14.5	25.7	1.055	12.3	Long	Purple
COTX10138-18P/Y	TXP/Y	70.4	44.2	13.2	13.0	0.0	26.1	3.5	1.051	11.6	Oblong	Purple
COTX10138-19P/Y	TXP/Y	66.2	46.4	9.9	10.0	0.0	27.1	6.7	1.051	11.7	Round	Purple
ATX08121-3P/Y	TXP/Y	41.7	34.9	6.9	0.0	0.0	58.3	0.0	1.061	13.4	Oblong	Purple
ATTX10265-7P/Y	TXP/Y	48.9	37.6	11.4	0.0	0.0	42.4	8.7	1.056	12.4	Long	Purple
ATTX10262-1P	TXP/Y	58.2	45.7	8.4	4.1	0.0	41.8	0.0	1.047	10.9	Oblong	Purple
TX10437-10P	TXP/Y	80.7	20.7	21.1	26.0	0.0	13.5	5.8	1.050	11.4	Round	Purple
ATTX10265-6P/Y	TXP/Y	38.2	38.2	0.0	0.0	0.0	47.8	14.0	1.054	12.2	Long	Purple
ATX08117-1P/Y	TXP/Y	64.9	48.5	16.4	0.0	0.0	35.1	0.0	1.046	10.7	Long	Purple
ATX08117-8P/Y	TXP/Y	43.1	28.1	15.0	0.0	0.0	56.9	0.0	1.049	11.2	Oblong	Purple
Average L.S.D. (.05)		57.2	37.2	12.2	6.6	0.0	36.3	6.4	1.052	11.8		

Dalhart  
Table 21c.

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 8 entries in the Texas Advanced Purple Skin Yellow Flesh 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>	
ATTX10265-8P/Y	TXP/Y	9.7	4.3	100	2.0	4.6	4.6	4.6	5
COTX10138-18P/Y	TXP/Y	10.8	3.7	100	2.0	4.7	4.5	4.6	2
COTX10138-19P/Y	TXP/Y	9.4	3.5	100	2.0	4.5	4.5	4.5	12
ATX08121-3P/Y	TXP/Y	14.3	2.3	100	2.0	4.7	4.7	4.6	3
ATTX10265-7P/Y	TXP/Y	8.5	2.9	100	2.0	4.5	4.5	4.5	0
ATTX10262-1P	TXP/Y	7.7	2.6	100	2.0	4.5	4.5	4.5	0
TX10437-10P	TXP/Y	3.9	4.7	100	2.0	4.0	3.6	3.5	0
ATTX10265-6P/Y	TXP/Y	7.2	2.3	100	2.0	4.5	4.5	4.5	0
ATX08117-1P/Y	TXP/Y	5.2	2.7	100	2.0	4.5	4.5	4.5	5
ATX08117-8P/Y	TXP/Y	3.8	2.2	100	2.0	4.5	4.5	4.5	0
Average		8.1	3.1	100	2.0	4.5	4.4	4.4	3
L.S.D. (.05)									

<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 21d.

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 Texas Advanced Purple Skin Yellow Flesh 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
ATX10265-8P/Y	TXP/Y	2.5	3.5	1.0	3.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10138-18P/Y	TXP/Y	3.5	2.3	1.0	2.0	5.0	5.0	5.0	5.0	5.0	5.0	33	0	0	0
COTX10138-19P/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	0
ATX08121-3P/Y	TXP/Y	3.0	3.0	1.0	2.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX10265-7P/Y	TXP/Y	2.5	3.5	1.0	3.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX10262-1P	TXP/Y	1.0	2.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX10437-10P	TXP/Y	1.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX10265-6P/Y	TXP/Y	2.5	3.5	1.0	3.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX08117-1P/Y	TXP/Y	2.5	3.5	1.0	3.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX08117-8P/Y	TXP/Y	2.5	3.0	1.0	2.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.5	2.9	1.0	3.0	5.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
L.S.D. (.05)															

<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 21e.

Notes and general rating for all reps of 8 entries in the Texas Advanced Purple Skin Yellow Flesh  
Trial grown near Dalhart, Texas-2015.

Variety or Selection	Trial	Notes Grading	General Rating Grading
ATTX10265-8P/Y	TXP/Y	, , rough, cull+, poor internals, Drop++, vascular discoloration, growth cracks, hollow heart,	2, 2, 2, 2
COTX10138-18P/Y	TXP/Y	Drop+++, , ,	3.5, 3.2, 3.3, 3.2
COTX10138-19P/Y	TXP/Y	nice skin, uniform, Keep, , ,	3.8, 3.8, 3.8, 3.8
ATX08121-3P/Y	TXP/Y	, , less sliver scurf, deep eyes, Keep,	2, 2, 3.5, 3.5
ATTX10265-7P/Y	TXP/Y	pointed, Drop, , ,	2, 2, 2, 2
ATTX10262-1P	TXP/Y	deep eyes, , silver scurf, Drop++,	2, 2, 2, 2
TX10437-10P	TXP/Y	, , pointed, white flesh, growth cracks, Drop++,	2, 2, 2, 2
ATTX10265-6P/Y	TXP/Y	Drop, , ,	2.5, 2.5, 2.5, 2.5
ATX08117-1P/Y	TXP/Y	small, Drop, , ,	3, 3, 3, 3
ATX08117-8P/Y	TXP/Y	light set, poor shape, Drop, , ,	2, 2, 2, 2

## **Appendix A. General notes on potato varieties or selections- 2015.**

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

A03141-6-Long 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:

Weakness: too long, rough oversized heat sprouts, blocky, rough, poor shape, and light net, very small, some pointed

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: nice shape

Weakness: light net, light set pointed,

A05180-3PY-Round Purple. Parentage (Pinto (ATND9331-2).x VC1075-1R). Cross was made and selected in Aberdeen. Medium maturity. Medium vine size. Dark Red Purple flower color.

Uses: fresh

Strength: very nice purple skin color, nice shape and flesh, light flesh

Weakness: rough, deep eyes silver scurf, light flesh, faded skin color, Flesh color=2.5, DROP

A05182-7RY-Round Yellow/Pink Eye. Parentage (ATND93331-2 x A99433-5Y). Cross was made and selected in Aberdeen. Medium-late maturity. Medium vine size. White flower color.

Uses: fresh

Strength: high set smooth

Weakness: rough, sticky stolon, variable, shape deep eyes, small, some rough light flesh, DROP  
FC=3.0

A06021-1T-Long Russet. Parentage (A99031-1TE x A96013-2). Cross was made and selected in Aberdeen. Medium-early maturity. Medium vine size. White flower color.

Uses: dual

Strength: heavy set, nice shape, BOT-

Weakness: some blocky

A06084-1TE-Long Russet. Parentage (A98345-1 x A97267-1). Cross was made and selected in Aberdeen. Medium maturity. Medium vine size. White flower color.

Uses: dual

Strength: heavy set

Weakness: curved, skinny, hollow heart, pointed variable, size, poor shape, light set, DROP

A06084-1TE-Long Russet. Parentage (A98345-1 x A97267-1). Cross was made and selected in Aberdeen. Medium maturity. Medium vine size. White flower color.

Uses: dual

Strength: heavy set

Weakness: curved, skinny, hollow heart, pointed variable, size, poor shape, light set, DROP

A06862-18VR-Oblong Russet. Parentage (PA98V1-2 x A98345-1). Cross was made and selected in Aberdeen. Medium maturity. Medium vine size.

Uses: dual

Strength: smooth skin

Weakness: poor internals, small, deep eyes DROP

A06914-3CR-Oblong Russet. Parentage (A00715-8 x Alpine Russet). Cross was made and selected in Aberdeen. Medium maturity. Medium vine size. White flower color.

Uses: dual

Strength: smooth

Weakness: knobs, heat sprouts, skinny, light net, light set, small, pointed DROP

AC00206-2W-Round White. Parentage (AC87340-2 x Dakota Pearl). Cross was made in Aberdeen, and selected in Colorado. Medium maturity. Medium-large vine size. White flower color.

Uses: chip

Strength: nice size and shape, smooth, nice flesh, CR=1

Weakness: internal brownspot poor internals

AC03433-1W-Round White. Parentage (A94322-8C. x COA96141-4). Cross was made in Aberdeen, and selected in Colorado. Medium-late maturity. Medium-large vine size. White flower color.

Uses: chip

Strength: nice shape, CR=1.0

Weakness: variable size small, light set, ZC, small, low yield, poor yield, small, DROP

AC03452-2W-Round White. Parentage (A98423-1C x COA96141-2C). Cross was made in Aberdeen, and selected in Colorado. Medium maturity. Medium-large vine size. White flower color.

Uses: chip

Strength: smooth, nice shape CR=1.0

Weakness: rough small, variable size, small, low yield drop

AC05039-2RU-Oblong Russet. Parentage (A99032-2TE x COA00287-1). Cross was made in Aberdeen, and selected in Colorado. Early maturity. Medium-small vine size. White flower color.

Uses: dual

Strength: nice shape, blocky

Weakness: rough, hollow heart, small, poor shape, small, light set DROP

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, keep, BOT, nice shape, nice flesh uniform CR=1

Weakness: low yield some flat

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, nice skin FC=3.5

Weakness: deep eyes, sticky stolons silver scurf,

AF0338-17-Round White. Parentage (AF303-5 x SA8211-6). Cross was made and selected by the University of Maine. Medium maturity. Medium vine size. Violet flower color.

Uses: chip

Strength: nice shape smooth CR=2.0

Weakness: poor shape low yield small, drop

AF4157-6-Round White. Parentage (Yankee Chipper x Dakota Pearl). Cross was made and selected by the University of Maine. Early maturity.

Uses: chip

Strength: nice shape and skin very nice, nice uniform, smooth, BOT+, CR=1

Weakness: light set

AF4648-2-Round White. Parentage (NY132 x Liberator). Cross was made and selected by the University of Maine. Medium maturity.

Uses: chip

Strength: uniform nice smooth nice yield BOT+, CR=1

Weakness: small ZC, vascular discoloration deeper eyes

AO01114-4-Oblong-long Russet. Parentage (AO92017-6 x A86102-6). Cross was made in Aberdeen, and selected in Oregon. Medium-late maturity. Medium-large vine size. White flower color.

Uses: dual

Strength: nice shape



Weakness: small, deep eyes

AO03123-2-Long Russet. Parentage (A98082-17 x Premier Russet). Cross was made in Aberdeen, and selected in Oregon. Medium-late maturity. Small-medium vine size. White flower color.

Uses: dual

Strength:

Weakness: too long, light skin, pointed, raised eyes, skinny variable size, and curved poor shape

AOR06070-1KF-Long Russet. Parentage (). Cross was made in Aberdeen, and selected in Oregon.

Uses: process.

Strength:

Weakness: too long, pointed, poor shape dumbbell, misshapen, poor net, skinny, small, light net

AORTX09032-3W-Oblong White. Parentage (A03449-2C x Ivory Crisp). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: CR=2

Weakness: rough,

AORTX09033-11W-Round White. Parentage (CO96141-4W x Ivory Crisp). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: nice shape, CR=1

Weakness:

AORTX09033-14W-Round White. Parentage (CO96141-4W x Ivory Crisp). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: CR=1

Weakness: shape? Large tubers,

AORTX09033-4W-Round White. Parentage (CO96141-4W x Ivory Crisp). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: CR=1

Weakness: large tubers, hollow heart++,

AORTX09033-9W-Round White. Parentage (CO96141-4W x Ivory Crisp). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: keep, nice uniform size, high set, nice shape, small, yellow flesh, BOT-, CR=2

Weakness:

AORTX09037-1W-Round White. Parentage (Fasan x Ivory Crisp). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: smooth, light yellow flesh, nice shape, CR=3

Weakness:

AORTX09037-3W-Round White. Parentage (Fasan x Ivory Crisp). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: smooth, light yellow flesh, CR=3

Weakness: low yield,

AORTX09037-4W-Round White. Parentage (Fasan x Ivory Crisp). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: uniform (NATCH candidate), BOT-, CR=1

Weakness:

AORTX09037-5W-Round White. Parentage (Fasan x Ivory Crisp). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: uniform, nice shape, CR=1

Weakness:

AORTX09144-2W-Round White. Parentage (A02516-102LB x PALB03016-3). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: nice skin, smooth, CR=1

Weakness:

AORTX09147-1W-ObLong White. Parentage (A02516-102LB x A98334-2). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength:

Weakness: did not Chip, DROP, FC=1.0

AORTX10119-1W-Long White. Parentage (A05079-12 x A05548-1). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength: Keep, white flesh, FC=1.0

Weakness: oversized

AORTX10121-2Ru-Oblong Russet. Parentage (A05079-12 x Dakota Trailblazer). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength: blocky, nice shape, small, round, keep++

Weakness:

AORTX10127-1Ru-Long Russet. Parentage (A05084-1 x A03158-1TE). Cross was in Aberdeen,

tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength:

Weakness: large tubers, processor, keep if high gravity, low gravity DROP

AORTX10247-1W/Y-Round White. Parentage (Lady Britta x NY139). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: very small, small candidate, yellow flesh, CR=3

Weakness:

AORTX11084-1Ru-Long Russet. Parentage (A06016-5TE x A98196-5). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength: FC=1.0

Weakness: oversized, DROP,

AORTX11175-1Ru-Oblong Russet. Parentage (Blazer Russet x COA05149-2). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength: heavy set, nice, keep+, blocky, yield+

Weakness: pointed, misshapen, DROP

AORTX11234-1W-Long White. Parentage (A02093-1 x A01025-4). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength: FC=1.0

Weakness: oversized, DROP,

AORTX11455-4W-Round White. Parentage (A00206-1C x MSJ316A-LF). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: heavy set nice shape CR=2

Weakness: too small, DROP

AORTX11468-1W-Round White. Parentage (A03449-2C x MSJ316A-LF). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength: nice size, Keep, FC=1.0

Weakness:

AORTX11476-2W-Oblong White. Parentage (A05158-2C X MSJ316A-LF). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: smooth skin, nice flesh, CR=1

Weakness:

AORTX11513-1W-Round White. Parentage (MSK061-4 x 00-3115-11). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength: nice internals, Keep, FC=1

Weakness:

AORTX11913-3Wre/Y-Long White. Parentage (A03576-5Y x NDA050237B-1R). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: white flesh, high yield, red eyes, smooth, nice shape Keep++, FC=1.0

Weakness: some rough,

AORTX11913-4P-Round Purple. Parentage (A03576-5Y x NDA050237B-1R). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: nice skin and flesh, Keep, FC=1.0

Weakness:

AORTX11913-5P-Round Purple. Parentage (A03576-5Y x NDA050237B-1R). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: high yield heavy set Keep, FC=1.0

Weakness: silver scurf, variable size, some vascular discoloration, stem attachment,

AORTX11913-6P/Y-Round Purple. Parentage (A03576-5Y x NDA050237B-1R). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: "Lucy's Notes: Skin light purple with some reddish tones. Around eyes more intense purple color make it attractive. Flesh light yellow/white. Nice skin finish, too large move to P/Y trial, feathering, BOT, FC=3.5

Weakness:

AORTX11913-8WRE/Y-Round White. Parentage (A03576-5Y x NDA050237B-1R). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength: red splash, move to WH/Y nice internals, FC=3.0

Weakness: vascular discoloration,

AORTX11914-4W-Round White. Parentage (A03576-5Y x Mila). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength:

Weakness: poor internals, DROP, FC=1.0

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

ATTX00289-5R/Y-Oblong Red/Yellow Parentage (NDA5507-3 X TXA1655-1DY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength:

Weakness: mixed seed source, poor skin, variable skin color, deep eyes, rough, very early, oversized, heat sprouts, many culls, DROP+, FC=2.0

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: Kelly likes, Bruce Likes, better size, very small, size parent, BOT, FC=3.2 FC=4.0

Weakness: Lucy's Notes External color dull. It doesn't look attractive. Round small tubers.

Rhizoctonia sensitive. Skin with Black Dot/Silver Scurf lesions.

ATTX07039-2Ru-Long-Russet. Parentage (Stampede Russet EM x AO0385-2 EM 400). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: keep+, yield+, nice shape, large tubers, light set, BOT

Weakness:

ATTX10262-1P-Long Purple. Parentage (A02267-2PY X NorDonna). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: FC=1.0

Weakness: deep eyes, silver scurf, variable size, deep eyes, light set, white flesh, DROP+++,

ATTX10265-4R/Y-Oblong Red. Parentage (A02267-2PY X US 147-96RIY).Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: very smooth skin, nice flesh Keep+, BOT-, FC=3.8

Weakness:

ATTX10265-6P/Y-Long Purple. Parentage (A02267-2PY X US 147-96RIY).Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength:

Weakness: DROP, FC=2.5

ATTX10265-7P/Y-Long Purple. Parentage (A02267-2PY X US 147-96RIY).Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength:

Weakness: pointed, DROP, FC=2.5

ATTX10265-8P/Y-Long Purple. Parentage (A02267-2PY X US 147-96RIY).Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: nice shape and flesh

Weakness: rough, cull+, poor internals, skin finish problems DROP++, FC=2.5 FC=3.5

ATTX108402-1P/P-Long Purple. Parentage ().Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: Good external color. Nice intense purple flesh carotenoid extraction

Weakness: Nice round shape. Some tubers with black dot /silver scurf skin lesions. Lucy's Chip notes: Purple –White Chips. Overall nice look. One chip with sugar accumulation and other with slight stem end, Lucy's notes: silver scurf, growth cracks, keep for chip and flesh, FC=5.0,



## DROP

ATTX11476-11W-Round White. Parentage (A05158-2C x MSJ316A-LF). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength:

Weakness: small, rough, CR=1

ATTX11476-12W-Round White. Parentage (A05158-2C x MSJ316A-LF). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: nice size and shape, oblong, nice skin, keep? CR=1

Weakness:

ATTX11476-2W-Round White. Parentage (A05158-2C x MSJ316A-LF). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: heavy set nice size, nice shape

Weakness: variable, heat sprouts, DROP CR=1

ATTX11476-3W-Round White. Parentage (A05158-2C x MSJ316A-LF). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength:

Weakness: light set, large size, ZC, DROP CR= 1

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: fresh

Strength:

Weakness: deep nose, rough, CR=1

ATX98444S-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: Bruce Likes, heavy set B's, yield+, keep, FC=2.5 nice small potato, uniform, FC=3.0

Weakness: light skin

ATX98453-6R-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: nice skin, yield+, BOT nice shape

Weakness: variable size, light yield, DROP

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 and skin, smooth, FC=3.5

Weakness: light skin, DROP, FC=ND,

ATX00289-2Ru-Long Russet. Parentage (NDA5507-3 X TXA1655-1DY). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: very nice, nice shape, keep+, nice, BOT

Weakness: drop,

ATX05186S-1R-Oblong Red. Parentage (A99433-5Y x VC1075-1R). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: Nice external red color. Good skin set. Few evident eyes. The small tubers have a great round shape with good potential for bites. "Keep, send to Kelly, nice skin nice, very white flesh,

small size++, nice size keep, FC=1.0

Weakness: vascular discoloration some road map, light set

ATX05202S-3W/Y-Oblong White/Yellow. Parentage (A00286-3Y x A99433-5Y). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: smooth, send to Kelly, low yield, BOT for small potato, uniform size, small, BOT,

FC=3

Weakness:

ATX06264S-4R/Y-Round Red/Yellow. Parentage (A99331-2RY x Durango Red). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: Kelly likes, heavy set, very nice shape, uniform, keep CSS, BOT+, FC=3.0 Lucy's

Notes: Nice uniform set. Great smooth bright skin. Flesh intense yellow. I really like this variety.

Nice flesh color, both small trial and R/Y, BOT+ FC=3.0

Weakness: scurf, poor skin finish

ATX08098-1W-Round White. . Parentage (A031087-101R x R 89063-84). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength:

Weakness: light set, DROP, FC=1.5

ATX08117-1P/Y-Long Purple. . Parentage (A02267-2PY x COA01406-1R). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength:

Weakness: small, DROP, FC=2.5

ATX08117-3P-Round Purple. Parentage (A02267-2PY x COA01406-1R). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: Lucy's Notes: Some tubers with smooth pear shape. White flesh. I like it." nice skin finish, Bright nice external purple color. Uniform small tuber set. BOT, FC=1.0

Weakness:

"

ATX08117-8P/Y-Long Purple. Parentage (A02267-2PY x COA01406-1R). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength:

Weakness: light set, poor shape, DROP, FC=2.5

ATX08120-1W/Y . Parentage (A02267-2PY x POR02PG26-5). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength:

Weakness:

ATX08121-1R/Y-Round Red. Parentage (A02267-5PY x CO98012-5R). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength:

Weakness: poor shape, light skin color, DROP, FC=3.0

ATX08121-3P/Y-Oblong Purple. Parentage (A02267-5PY x CO98012-5R). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: less sliver scurf small, move to small potato trial, very light flesh, Keep, FC=3.0  
FC=2.0

Weakness: deep eyes,

ATX08121-5R-Round Red . Parentage (A02267-5PY x CO98012-5R). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: light skin, nice shape, keep

Weakness:

ATX10148-1Ru-Oblong Russet. . Parentage (A05355-1VR x Stampede Russet). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: nice, blocky, nice shape, keep, BOT

Weakness: misshapen, close set, drop

ATX10675-1Ru-Oblong Russet. . Parentage (A05379-217 x Dakota Trailblazer). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: heavy set nice shape, keep

Weakness: pointed, small, light set, DROP

ATX11039-1W-Round White. . Parentage (A05016-10 x A98196-5). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength:

Weakness: DROP, did not chip, FC=1.0

ATX11354-1W. Parentage (AF2850-9 x A01025-4). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength:

Weakness:

ATX11461-3W-Round White. . Parentage (A01143-3C x 00-3115-11). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: nice size,

Weakness: small, DROP CR= 1

ATX11469-2W-Round White. Parentage (A03449-2C x Karaka). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength:

Weakness: DROP, did not chip, poor skin finish, FC=1.0

ATX11952-1Ru-Long Russet. . Parentage (A02515-2 x A98196-5). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: yield+, keep

Weakness: oversized,

ATX84378-6Ru-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: nice shape and skin, yield+, B's, keep+++ , small, smooth, blocky, nice shape, BOT

Weakness: light set

ATX91137-1Ru-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: yield+ nice skin and shape, BOT++

Weakness: raised eyes, oversized, some culls

Baltic Cream-Round White. Parentage (?). Clone entered by Norika America. Medium maturity.

Medium vine size.

Uses: fresh

Strength: smooth small parent nice yellow flesh, very small, B's+++ , CR=2.0 CR=1

Weakness: massive heat sprouts, , drop+, very small size, heat sprouts, too small, culls, too small, B's, chain tubers, low yield

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: rough, deep eyes, chain tubers more culls some large, very long, curved, yellow flesh nice skin

BNC 182-5-Round White. Parentage (Tacna X B0766-3).Cross was made by the USDA in Aroostook County, Maine.

Uses: fresh

Strength: nice flesh high yield, nice, nice shape and size, yellow flesh, BOT++

Weakness: too oblong, poor shape light set, large tubers, yellow flesh, DROP, CR=3.0, CR=2

BTX1749-1W/Y-Oblong White/Yellow. Parentage (K7-6 x BO925-4). Cross was made in Beltsville, Maryland and selected in Texas.

Uses: fresh

Strength: Bernard? Nice flesh, smooth, BOT-, FC=3.3yield+ nice shape, BOT+, FC=3.5

Weakness: oversized

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 flesh nice flesh color FC=3.0 FC=2.5

Weakness: light set, light skin, small, poor yield DROP, flat shape

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: smooth nice skin and shape BOT+

Weakness: road map some feathering, oversized, silver scurf

Chieftan-Round Red. Parentage (1a1027-18 x La1354). Cross was made and selected at Iowa State University.

Uses: fresh

Strength: nice shape

Weakness: poor internals++, light skin color lots of B's IBS++

CIT#1-Round White. Parentage (?). Clone entered by Agriculture and Agri-Food Canada (AAFC). Late maturity.

Uses: chip

Strength: nice skin, nice size, smooth skin high yield, keep, nice shape CR=1

Weakness: flat, vascular discoloration

CIT#2-Oblong Red/Yellow Parentage (?). Clone entered by Agriculture and Agri-Food Canada (AAFC). Medium maturity.

Uses: fresh

Strength: heavy set, nice skin, BOT for red yellow flesh

Weakness: small

CIT#3-Oblong White red splash. Parentage (?). Agriculture and Agri-Food Canada (AAFC). Medium maturity.

Uses: fresh

Strength: nice flesh FC=3

Weakness: poor shape+, small, ZC, poor internals



CIT#4-Oblong Red/Yellow. Parentage (?).Agriculture and Agri-Food Canada (AAFC).Medium maturity. Uses: fresh

Strength: nice shape and yellow flesh, heavy set, BOT-

Weakness: ZC?

CIT#5-Round White. Parentage (?). Clone entered by Hilldale Potato Very late maturity.

Uses: chip

Strength:

Weakness: variable size, heat sprouts, chain tubers, vascular discoloration, poor internals, small, sticky stolon, DROP+, CR=1

CIT#6-Oblong White. Parentage (?).Clone entered by Hilldale Potato).Late maturity.

Uses: fresh

Strength: very early, chip, white flesh, nice shape and skin FC=1

Weakness: low yield

CIT#7-Oblong White. Parentage (?).Clone entered by McCain Produce Medium maturity.

Uses: chip

Strength:

Weakness: terrible, drop, poor shape, pointed, skinny, ZC, long, skinny, CR=1

CIT#8-Long White. Parentage (?).Clone entered by McCain Produce Medium maturity.

Uses: chip

Strength: very nice long white, processor, nice yield very white flesh CR=1

Weakness: poor shape, long, skinny, ZC+, too long, some vascular discoloration skinny

CO04021-2R/Y-Oblong Red/Yellow. Parentage (ATC98509-1R/Y x US147-96R/Y). Cross was made and selected in Colorado. Medium maturity. Medium large vine size. Light purple flower color.

Uses: fresh

Strength: nice yellow flesh, FC=3.5, FC=2.5

Weakness: light skin color poor shape, low yield, small, rough, poor shape, 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: purple pinto nice yield, FC=3.5, FC=2.5

Weakness: faded purple color rough chain tubers vascular greenhead, deep eyes, rough, very light purple skin, oversized, poor shape,

CO05037-2R/Y-Oblong Red/Yellow. Parentage (AC99330-1P/Y x CO97227-2P/PW). Cross was made and selected in Colorado. Medium maturity. Medium vine size. Red-Purple flower color.

Uses: fresh

Strength: nice flesh, fingerling, long skinny small parent, very small, BOT for small potato, nice skin and flesh, FC=3.5

Weakness: no curve

CO05037-3W/Y-Long Russet. Parentage (AC99330-1P/Y x CO97227-2P/PW). Early maturity. Med-Large vine size. Light Purple flower color.

Uses: fresh

Strength: flesh parent, smooth skin, nice shape, light flesh, BOT, FC=3.5, FC=3

Weakness: greenhead, pointed, rough, poor shape, pear shaped DROP

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: blocky, nice skin

Weakness: deep eyes, poor shape heat sprouts, too small, B's

CO05110-6RU-Long Russet. Parentage (COA96054-3 x CO98009-3RU). Cross was made and selected in Colorado. Early maturity. Small-medium size. Red-purple flower color.

Uses: duel

Strength: nice skin and shape, blocky

Weakness: small some oversized, hollow heart

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: some pointed, skinny light net, very skinny, poor shape, DROP

CO07015-4RU-Long Russet. Parentage (Fortress Russet x AC00033-2RU). Cross was made and selected in Colorado Early maturity. White flower color.

Uses: fresh

Strength: blocky, nice shape

Weakness: rough, very small B's, light set

CO07049-1RU-Long Russet. Parentage (AOA95155-7 x AC00594-4RU/Y). Cross was made and selected in Colorado Medium maturity. Light-purple flower color.

Uses: fresh

Strength: nice shape heavy set, blocky

Weakness: pointed, variable size, B's, too small, DROP

CO07070-10W-Round White. Parentage (B0766-3T x CO00188-4W). Cross was made and selected in Colorado Medium maturity. Light purple flower color.

Uses: chip

Strength: uniform, nice shape and size, CR=1

Weakness: light set, small all B's, CR=3.0

CO07070-13W-Round White. Parentage (B0766-3Tx CO00188-4W). Cross was made and selected in Colorado Early maturity. White flower color.

Uses: chip

Strength: yield++smooth, nice shape smooth, nice size, CR=1

Weakness: drop, ZC,

CO07102-1R-Oblong Red Parentage (CO99256-3R x CO99076-6R). Cross was made and selected in Colorado Early maturity. Medium vine size. Purple flower color.

Uses: fresh

Strength: smooth skin, nice skin

Weakness: feathering, pointed, raised lenticels, poor stand, and very low yield, rough

CO07131-1W/Y-Round White/Yellow Parentage (PA4X137-12 x 4X91E22). Cross was made and selected in Colorado Medium maturity. Red-Purple flower color.

Uses: fresh

Strength: nice flesh parent, FC=3.5

Weakness: all very small, very late, DROP,

CO07370-1W/Y-Round White/Yellow. Parentage (US147-96 x CO01399-10P/Y). Cross was made and selected in Colorado Medium-late maturity. White flower color.

Uses: fresh

Strength: heavy set small parent FC=2, FC=3.0

Weakness: very late poor shape, all very small, DROP, some chain tubers, small, poor shape, 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: small potato, good skin color, Bruce Likes, Onice shape, smooth, FC=3.5 FC=3.

Weakness:

COTX02172-1R-Oblong Red. Parentage (CO94065-2R x ND3574-5R). Cross was made in Colorado and selected in Texas. Medium early maturity. Medium vine size. Lavender flower color.

Uses: fresh

Strength: keep nice skin and flesh

Weakness: small, low yield

COTX02293-4R-Oblong Red. Parentage (CO94065-2R x ND3574-5R). Cross was made in Colorado and selected in Texas. Medium early maturity. Medium vine size. Lavender flower color.

Uses: fresh

Strength: very nice, Bruce Likes nice shape and color, keep

Weakness: light set deep eyes, oversized, DROP+++

COTX03134-1W-Round White. Parentage (Laratte x PA97B36-3). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: high set uniform shape, buff skin FC=1

Weakness: variable shape, small road map, poor skin, small DROP,

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: Keep for chip Kelly likes, very dark skin and flesh FC=4.0      FC=5.0

Weakness: heat sprouts DROP

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: Nice yellow flesh color. Good potential. "BOT, FC=4.0 Lucy's Notes: Nice round shape. Even set and good number of tubers. Some tubers with evident eyes. Nice external color but rough feeling

Weakness: low yield

COTX05095-2Ru/Y-Long Russet/Yellow. Parentage (CO99045-1W/Y X AO96164-1). Cross was made in Aberdeen and selected in Texas. Medium. Medium vine size. White flower color.

Uses: fresh

Strength:

Weakness: flesh color 2.5, small, poor shape, blocky, drop++

COTX05211-5R-Long Red Parentage (CO98012-5R x CO00278-4R). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: small potato candidate, great skin color, smooth color parent

Weakness: too long ZC?? , feathering, growth cracks, DROP+++

COTX05249-3W/Y-Round White/Yellow. Parentage (CO00320-1R x ATC98509-1R/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: move to small trial, send to Kelly

Weakness: mixed flesh, not red eye, DROP+++ , FC=2.5, 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 shape very nice shape, high yield BOT+

Weakness: pointed, light color, ZC?? , greenhead variable size DROP

COTX07382-2W/Y-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: move to chip, send to Blackgold, Bruce Likes, smooth, nice, nice shape, light flesh, BOT, FC=2.3 FC=2.5

Weakness: oversized, knobs DROP+,

COTX08044F-1R/R-Long Red. Parentage (FF x KP x FF x KP). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice color, light pink flesh, nice shape, skin, and flesh, BOT, FC=3.5

Weakness: poor shape, rough

COTX08258-6Ru-Long Russet. Parentage (PA98V6-1 x Blazer russet). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: keep heavy set, nice shape

Weakness: culls, small, B's, too small, DROP+

COTX08322-10Ru-Oblong Russet. Parentage (Blazer Russet x AC96052-1RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice shape, blocky, keep

Weakness: small, DROP

COTX08365F-1P/P-Long Purple/Purple. Parentage (POR01PG16-1 x CO00405-1R). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: fingerling, keep nice color, BOT+, FC=3.8 FC=4.0

Weakness: not curved enough, silver scurf++,

COTX08365F-3P/P-Long Purple. Parentage (POR01PG16-1 x CO00405-1R). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: fingerling, nice shape and color, Keep, nice BOT+, FC=4.0

Weakness: can oversize, silver scurf

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 fat tubers flesh color 3.5 blocky, keep, nice shape, small, nice flesh,

BOT++

Weakness: growth cracks, hollow heart, stem end discoloration

COTX09042-2Ru-Long Russet. Parentage (CO99053-3RU x CO03202-1RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: variable size, too small, light net, DROP++

COTX09052-1Ru-Long Russet. Parentage (CO03202-1RU x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice shape smooth, nice net, long, keep

Weakness: too small, keep, drop++

COTX09052-2Ru-Long Russet. Parentage (CO03202-1RU x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice shape smooth skin, long, heavy set

Weakness: small skinny, pointed did not size, B's

COTX10010-1Ru-Long Russet. Parentage (A0008-1TE x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: yield+, nice, large tubers, keep+

Weakness: some culls, pointed B's, DROP

COTX10031-1W-Round White. Parentage (AC01151-5W x CO02033-1W). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength: nice shape, nice size, keep CR= 1

Weakness: DROP?



COTX10065-3W-Round White. Parentage (CO02024-9W x CO02024-9W). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength:

Weakness: light set, poor flesh, DROP, FC=1

COTX10073S-1W-Oblong White. Parentage (A97066-42LB x Alpine Russet). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: Lucy's Notes: Nice small round even set. White flesh. Good potential for bites.

Smooth skin, great skin finish, small fresh, Bruce Likes, uniform, nice shape, send to Kelly, baby baker, uniform small, send to Kelly, Keep for Small trial, FC=1.0

Weakness: did not chip

COTX10076-11W-Oblong White. Parentage (CO03243-3W x CO02024-9W). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength: keep CR=1

Weakness: too small

COTX10076-1W-Round White-. Parentage (CO03243-3W x CO02024-9W). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength: nice keep CR=1

Weakness: too small, B's,

COTX10076-7W-Round White. Parentage (CO03243-3W x CO02024-9W). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength: nice shape and yield, buff-russet skin BOT CR=1

Weakness: sticky stolon

COTX10079-11W-Oblong White. Parentage (CO03273-7W x CO02321-4W). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength: nice shape, very nice, nice size, buff-russet skin keep CR=2 CR=1

Weakness: very low yield, too small, oblong

COTX10080-2Ru-Long Russet. Parentage (CO03364-5RU x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice shape, keep++

Weakness: large tubers, oversized heat sprouts, some vascular discoloration, light set drop

COTX10080-3Ru-. Oblong Russet Parentage (CO03364-5RU x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: blocky, heavy set, keep, nice shape, keep

Weakness: low yield, DROP

COTX10080-5Ru-Oblong Russet. Parentage (CO03364-5RU x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: blocky, heavy set keep+

Weakness: mixed, variable size B small, DROP

COTX10097-2W/Y-Oblong White/Yellow. Parentage (CO04067-10W/Y x CO00412-5W/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: smooth nice flesh, very small, move to small trial Keep+, FC=3.5

Weakness: some rough light set, variable size, DROP

COTX10111-8Ru-Oblong Russet. Parentage (Blazer Russet x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice shape, blocky ok shape, keep++,

Weakness: small light set, DROP

COTX10115-1Ru-Long Russet. Parentage (Classic Russet x CO99100-1RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: heavy set, nice shape, keep

Weakness: small DROP

COTX10138-16W/Ypinto-Oblong Pinto/Yellow. Parentage (AC99329-7PW/Y x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice flesh FC=2.8

Weakness: very small, light purple color DROP

COTX10138-18P/Y-Oblong Purple/Yellow. Parentage (AC99329-7PW/Y x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: Bruce Likes, nice shape and flesh, keep, BOT+, FC=3.6 FC=3.5

Weakness: skin, finish? Vascular discoloration, growth cracks, hollow heart, DROP+++,

COTX10138-19P/Y-Oblong Purple/Yellow. Parentage (AC99329-7PW/Y x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: large, keep nice skin, uniform, Keep, FC=3.5FC=3.7

Weakness: mixed or two set ZC?

COTX10138-8W/Ypinto-Oblong Pinto. Parentage (AC99329-7PW/Y x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: smooth, FC=3.1 FC=3.0

Weakness: heat sprouts, light purple skin, some vascular discoloration, variable size, DROP+++

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: heavy set, send to Kelly, uniform, nice size, BOT++, Keep, FC=2.8 FC=3.0

Weakness: poor shape yellow flesh, mixed flesh, discard Purple eyes, DROP

COTX10141-11Ru-Long Russet Parentage (AC00395-2RU x CO03177-2RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: large, ok shape, nice shape, blocky, keep

Weakness: light set, rough, drop

COTX10141-12Ru-. Long Russet Parentage (AC00395-2RU x CO03177-2RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: large tubers, blocky, keep

Weakness: light russet, poor shape, some large, light yield, DROP+++

COTX10141-13Ru-Long Russet Parentage (AC00395-2RU x CO03177-2RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: fat tubers

Weakness: blocky oversized, pear shaped, skinny

COTX10226S-1WRE/Y-Round White Parentage (CO04117-5PW/Y x AC03534-2R/Y). Cross was

made in Colorado and selected in Texas.

Uses: fresh

Strength: red splash, nice size, uniform size, small, very nice flesh, small trial and WH/Y trial, red splash, heavy set, FC=4.0 FC=2.5

Weakness:

COTX11001-1Ru-Oblong Russet. Parentage (A98345-1 x AC96052-1RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice shape keep+

Weakness: small, light net,

COTX11018-1Ru-Oblong Russet. Parentage (A02060-3TE x COA06037-3). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: small, poor shape, DROP+

COTX11018-2Ru-Oblong Russet. Parentage (A02060-3TE x COA06037-3). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: blocky heavy set

Weakness: small, light set, DROP+

COTX11042-1W-Long White. Parentage (CO99100-1RU x A98345-1). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: FC=1.0

Weakness: oversized, DROP++,

COTX11130-1WRE/Y-Round White. Parentage (A99433-5Y x CO04099-4W/Y). Cross was made in

Colorado and selected in Texas.

Uses: fresh

Strength: FC=3.0

Weakness: deep eyes, DROP++,

COTX11140-1W/Y-Long White. Parentage (A00293-2Y x CO05122-1W/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: FC=2.5

Weakness: light set, DROP,

COTX11140-2WRE/Y-Long White. Parentage (A00293-2Y x CO05122-1W/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: Keep? FC=3.0

Weakness: not red eye,

COTX11140-3W/Y-Round White. Parentage (A00293-2Y x CO05122-1W/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: FC=2.0

Weakness: deep eyes, DROP

COTX11189-1Ru-Oblong Russet. Parentage (AC02708-1RU x CO05132-2RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: heavy set, blocky, move to chip trial, yield+, nice shape, keep+

Weakness:

COTX11206-1Ru-Oblong Russet. Parentage (AO00057-2 x AOTX96265-2RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: shape problems, pointed, curved, poor shape, DROP++

COTX11222-9Ru-Oblong Russet. Parentage (AOTX96265-2RU x CO99100-1RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: high yield

Weakness: rough, light net, small, DROP+

COTX11267-2WRE/Y-Round White. Parentage (CO03060-2W/Y x A00286-3Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: FC=2

Weakness: stem attachments, vascular discoloration, DROP,

COTX11381-1Ru-Oblong Russet. Parentage (CO05206-8RU x Blazer Russet). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: yield+

Weakness: rough, small, poor shape, DROP+

COTX12226-1Ru Parentage (A02507-2LB x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness:

COTX12235-1W Parentage (AC00206-2W x AC03433-1W). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness:

COTX12235-2W Parentage (AC00206-2W x AC03433-1W). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness:

COTX12236-3W Parentage AC00206-2W x CO02024-9W (). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness:

COTX12370-2Ru Parentage (CO06021-1RU x CO05206-8RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness:

COTX12428-1W Parentage (MSQ070-1 x CO02024-9W). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness:

COTX12428-2W Parentage (MSQ070-1 x CO02024-9W). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:



Weakness:

Kea-Round White Parentage (?). Clone entered by Norika America. Medium maturity. Medium vine size.

Uses: fresh

Strength: B's, nice yellow flesh, CR=3.0 CR=1

Weakness: poor yield, drop+, sticky stolon, poor shape, drop, small, light set

MSK061-4-Round White. Parentage (MSC148-An x Dakota Pearl Cross was made and selected at Michigan State University...

Uses: chip

Strength: nice shape smooth skin, CR=1

Weakness: small, drop, vascular discoloration, small, light set, poor internals

NDA050237B-1R-Oval Red. Parentage (ND028678-1RY x ND028770B-4R). Cross was made in North Dakota and selected in Idaho. Medium late maturity. Large vine size. Dark red purple flower color.

Uses: fresh

Strength: very dark skin color, very white flesh

Weakness: sticky stolon, small heat sprouts++, low yield

NDA081451CB-1CY-Round Yellow. Parentage (Dakota Diamond x ND 039173CAB-22). Cross was made in North Dakota and selected in Idaho. Medium early maturity. Medium vine size. White flower color.

Uses: fresh

Strength: nice shape and flesh high set small, uniform, smooth, nice, FC=3

Weakness: greenhead heat sprouts, small

NDTX050070-1R-Round Red. Parentage (ND 8375b-6R x ND 8347CB-12R). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: high yield, nice color, nice skin nice size, yield+, keep BOT

Weakness: feathering variable size light set, some road map

NDTX050169-1R-Round Red. Parentage (ND 8555-8R x R 89063-83). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: BOT, FC=1.0

Weakness: feathering

NDTX059759-3RY/Y Pinto-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: Bruce Likes, BOT, nice red skin FC=3.0.FC=2.8

Weakness: low yield

NDTX059828-2W-Round White. Parentage (ND 4659-5R x ND 8524B-1R).Cross made in North Dakota and selected in Texas.

Uses: fresh

Strength: ZC Res CR=1

Weakness: poor skin color

NDTX059886S-1W/Y-Round White Parentage (NDA5507-3 X TXA1655-1DY). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice shape, light flesh move to WH/Y trial, high yield, FC=2.5.FC=2.8

Weakness: light set some pointed, did not chip DROP

NDTX060700C-1W-Round White. Parentage (NDTX 7560C-4 x NDTX 7192-1).Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: smooth, nice shape, keep CR=1 CR=3

Weakness: B's, browncenter, too small++, poor internals, deep nose, poor shape,

NDTX071109C-1W-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 flesh nice shape, nice skin, CR=1

Weakness: low yield, drop? Too small deep eyes, rough DROP

NDTX071258BS-1R-pound Red. Parentage (ND 039035B-9R x ND 4659-5R).Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: good color, good skin finish, And move to red trial, Bruce Likes, uniform Lucy's

Notes: Nice external red color. Even round set. Only one tuber with some Black dot-Silver Scurf lesions. Shape remind me of Nicolet." Uniform send to Kelly, FC=1.0 FC=1.0

Weakness: light set, mixed skin color, small, lenticels DROP+

NDTX081451CBS-1Y/Y-Oblong White/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: heavy yield, move to yellow trial, Kelly likes, nice size, flesh, and skin, uniform, BOT-, Lucy's Notes: Cylindrical shape. Nice smooth external skin. Planting it with the correct, spacing could bring good potential for small bites. Nice yellow flesh. Keep for chip, Small and WH/Y trial, BOT, high yield, FC=2.7FC=3.0

Weakness:

NDTX081572B-1R-Round Red Parentage (ND 4659-5R X ND 028940B-102R). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: small potato candidate

Weakness: poor shape, feathering, heat sprouts, DROP++++

NDTX081644CAB-2W-Round White. Parentage (ND 8331Cb-3 X ND 028804CAb-5).Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: high yield nice size and flesh smooth, keep, BOT-CR=2

Weakness: variable size some rough, some internal brownspot, some culls

NDTX081648CB-13W-Round White. Parentage (ND 8456-1 xND7377CB-1).Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: very nice, keep nice size, CR=3 CR=1

Weakness: small, some culls, too oblong

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: Lucy's Chip notes: intense purple chip. No defects in the sample. Looks really appealing. I really like it. , Lucy's notes: Purple – Small tubers. Cylindrical shape. Even set.

Good external color. Nice intense purple flesh," Keep for chip, FC=3.8FC=3.9

Weakness: poor skin finish, rough, poor yield, light set, small, DROP++

NDTX091908AB-2W-Round White. Parentage (Ebt 6-21-5 X ND 7519-1).Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: smooth, nice shape and skin, keep, CR=1

Weakness: chain tubers, rough, small ZC, culls, poor internals, internal brownspot DROP++

NDTX092231C-1R-Round Red. Parentage (ND 049326C-2P x AND 00272-1R).Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: dark skin color nice color, nice shape, keep, BOT

Weakness: small, road map, light set DROP

NDTX092238CS-1P/W-Round Purple Parentage (ND 049326C-2P x ND 8555-8R).Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: white flesh Bruce Likes some larger tubers nice skin and size, better sizeFC=1.0

Weakness: low yield ZC?? , poor skin finish, DROP+++

NDTX092238CS-3P/W-Round Purple Parentage (ND 049326C-2P x ND 8555-8R).Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice white flesh Bruce Likes, nice size, nice skin, very white flesh, BOT-, FC=1.0

Weakness: deep eyes, poor skin finish, DROP+

NDTX092238CS-4P/W-Round Purple Parentage (ND 049326C-2P x ND 8555-8R).Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: white flesh, nice size and skin keep, FC=1.0

Weakness: light set lenticels, deep eyes, DROP++++

NDTX102461AB-4W-Oblong White Parentage (Ivory Crisp x ND 060421Ab-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: smooth, nice shape

Weakness: light set, DROP CR=1

NDTX102462C-6W-Round White Parentage (Ivory Crisp x ND 060831C-1).Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice size, nice shape and skin, keep, CR=1

Weakness: too oblong, small

NDTX102514ABC-5W-Round White Parentage (Etb 6-5-5 x ND 060831C-6). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice size, CR=1

Weakness: very small, some vascular discoloration poor internals, rough DROP

NDTX102639CS-1W-Round White Parentage (ND7550C-1 x ND060831C-6). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: move to chip, fast track high yield, Keep for chip FC=1.0

Weakness: too big, light set, DROP

NDTX102640Cb-1W-Round White Parentage (ND7550c-1 x ND071006B-2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: heavy set of B's, keep, nice shape, nice skin, smooth, nice size, CR=1 CR=2

Weakness:

NDTX102643CAB-1W-Round White Parentage (ND7799c-1 x ND060380Ab-5). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice size smooth skin, keep CR=1

Weakness: too small

NDTX102702C-1W-Oblong White Parentage (ND049326C-2P x ND059978C-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice size and shape, buff, nice, keep CR=1

Weakness: rough

NDTX102796CbS-2W-Round White. Parentage (ND059999C-4 x ND060618CB-3). Cross was made in

North Dakota and selected in Texas.

Uses: fresh

Strength: heavy set, move to small trial nice+, smooth, nice size,

Weakness: light set, small, low yield

NDTX102816CABS-1W-Round White Parentage (ND060476CAb-6 x ND7519-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice size nice shape, very white flesh uniform small, high set, Keep for chip and Small, BOT, FC=1.0

Weakness: variable size, too small++, DROP

NDTX102852CB-3Ru-Oblong Russet Parentage (ND060607B-4 x ND060831C-6). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice size and skin, light yellow flesh, buff skin, large tubers, nice size, BOT, CR=1 CR=2

Weakness: DROP

NDTX102852CB-4Ru-. Oblong Russet Parentage (ND060607B-4 x ND060831C-6). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: uniform large tubers, nice shape, keep BOT+, CR=1 CR=2

Weakness: rough, vascular discoloration, small

NDTX102903-6R/R-Oblong Red. Parentage (ND060806-1R x ND4659-5R). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: Lucy's Chip notes: Nice color after frying similar to Mountain Rose nice skin finish, light pink flesh, Bruce Likes, very nice flesh, shape, and skin, BOT+, FC=3.5

Weakness: Even set one chip with UC brown sugar accumulation. It seems to develop sugar

spots when frying. Lucy's notes: Red– Red external color. Some misshape tubers Some Black dot /Silver Scurf in the skin poor shape, silver scurf, red flesh, DROP+, FC=3.5

NDTX113029C-2W-Round White. . Parentage (Dakota Diamond x ND6620-14). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: small trial candidate, smooth, CR=1

Weakness:

NDTX113030C-10W-Round White. . Parentage (Dakota Diamond x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: CR=1

Weakness: small,

NDTX113030C-3W-Oblong White. . Parentage (Dakota Diamond x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice shape and size, CR=1

Weakness:

NDTX113030C-3W-Round White. . Parentage (Dakota Diamond x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice size and shape, keep CR=1

Weakness:

NDTX113030C-5W-Round White. . Parentage (Dakota Diamond x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice flesh, keep, CR=1



Weakness:

NDTX113030C-6W-Oblong White. . Parentage (Dakota Diamond x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice, nice shape and skin BOT CR=1

Weakness: ZC, small,

NDTX113037C-2W-Oblong White. . Parentage (Dakota Pearl x ND060705C-8). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: move to chip trial, Bruce Likes, nice shape, some large, keep, BOT, send to Larisa,

Keep for small, FC=1.0

Weakness: did not chip,

NDTX113037C-3W-Round White. Parentage (Dakota Pearl x ND060705C-8). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: smooth skin CR=3

Weakness: some rough, bruise

NDTX113059-1W-Oblong White Parentage (Ivory Crisp x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice, shape and skin BOT CR= 1

Weakness: very small, rough, culls+, light set

NDTX113218C-2W-Oblong White Parentage (ND860-2 x ND5873-53). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice skin heavy set CR=1

Weakness: heat sprouts, culls++, too small, DROP

NDTX113218C-3W-Oblong White Parentage (ND860-2 x ND5873-53). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice flesh, nice skin, oblong keep CR=1

Weakness: rough

NDTX113266C-1W-Oblong White Parentage (ND5873-53 x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice skin keep CR=1

Weakness: culls+

NDTX113277-1W-Oblong White. Parentage (ND7192-1 x Ivory Crisp). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: russet skin, nice shape keep CR=1

Weakness: light set

NDTX113432C-2R-Round Red. Parentage (ND050132C-6R x ND4659-5R). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength:

Weakness: vascular discoloration, DROP, FC=1.0

NDTX113438CB-1WRSPL-Oblong White. Parentage (ND050157B-1R x ND7743-2RS). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: red splash, white flesh high yield, smooth, Red splash, Keep? FC=1.0

Weakness: chain tubers, small, DROP,

NDTX113460C-3W-Round White. Parentage (ND059754-3PPinto x ND7743C-2RS). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: FC=1.0

Weakness: poor skin finish, DROP,

NDTX113461-1Rpinto-Long White. Parentage (ND059754-3PPinto x ND8555-8R). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: small parent, B's, FC=1.0

Weakness:

NDTX113461-2R-Round Red. Parentage (ND059754-3PPinto x ND8555-8R). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice size FC=1.0

Weakness: DROP++,

NDTX113467CB-1W-Oblong White. Parentage (ND060485Cb-1 x ND7519-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: keep, nice skin and shape, nice flesh, CR=1 CR=2

Weakness: some rough,

NDTX113549CB-1W Parentage (ND071076CV x ND6620-14). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX12130CB-1W Parentage (Ivory Crisp x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX12135-1W Parentage (ND8559-20 x M3). Cross was made in North Dakota and selected in Texas. Uses: chip

Strength:

Weakness:

NDTX12161CAB-1W Parentage (ND060837C-7 x ND7519-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX12176AB-1Ru Parentage (ND06748AB-1 x ND7519-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX12180ABC-1W Parentage (ND060837C-7 x Ivory Crisp). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX12203AB-1W Parentage (ND028598c-1 x M2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX12211C-1Ru Parentage (ND039104CAB-3 x Ivory Crisp). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX1244-3W Parentage (AND07358-1Y x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX1246-2W Parentage (AND07358-1Y x ND8304-2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX1246-3W Parentage (AND07358-1Y x ND8304-2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX1246-4W Parentage (AND07358-1Y x ND8304-2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX1246-5W Parentage (AND07358-1Y x ND8304-2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX1246-6W Parentage (AND07358-1Y x ND8304-2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX1246-7W Parentage (AND07358-1Y x ND8304-2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX1287B-1W Parentage (ND8559-20 x ND7379B-6). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX1292-1Ru Parentage (ND5873-53 x ND7379B-6). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness:

NDTX4784-7R-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: dark skin color Bruce Likes nice size, nice shape and skin, keep

Weakness: poor skin finish, road map light set

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: smooth, heavy set of B's, nice skin color and shape, BOT+

Weakness:

NY 148-Round White. Parentage (NY128 x Marcy). Cross was made and selected at Cornell University.

Uses: chip

Strength: yield+, nice shape and size, light yellow flesh, nice, smooth, BOT, nice smooth skin, uniform, CR=1.0 CR=2

Weakness: variable size,

OR05039-4-Long White. Parentage (AO95245-2 x PA00N29-3). Cross was made and selected in Oregon. Early maturity. Medium vine size. White flower color.

Uses: process

Strength:

Weakness: light skin color, skinny, some pointed light net, some curved, light set

OR09256-2-Round White. . Parentage (Dakota Diamond x Russet Norkotah). Cross was made and selected in Oregon. Medium-late maturity. Medium-large vine size. White flower color.

Uses: chip

Strength: keep, nice size and shape, nice flesh BOT, CR=1.0 CR=1

Weakness: low yield,

ORTX12469-1Ru/Y Parentage (PIKE x C00412-5W/Y (PVX)). Cross was made in Oregon and selected in Texas.

Uses: fresh

Strength:

Weakness:

ORTX12469-2Ru/Y Parentage (PIKE x C00412-5W/Y (PVX)). Cross was made in Oregon and selected in Texas.

Uses: fresh

Strength:

Weakness:

POR06V12-3-Oblong-Long Russet. Parentage (PA00V6-4 x PA01N22-1). Cross was made and selected in Oregon. Med-late maturity Med-large vine size White flower color.

Uses: dual

Strength: smooth nice shape

Weakness: hollow heart++ shape? Low yield, DROP

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:

Weakness: skinny pointed, deep eyes, small poor shape, small, skinny, B's

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: BOT



Weakness: light skin, deep eyes, some vascular discoloration

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: heavy set

Weakness: small heat sprouts, second growth, knobs, rough poor shape, skinny, pointed many culls

Russet Norkotah<sup>278</sup>-Oblong-Long Russet. Parentage (ND95264Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Russet Norkotah<sup>296</sup> 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: yield++ heavy set, nice shape BOT

Weakness some curved, long, oversized, many culls, some pointed

Russet Norkotah<sup>296</sup>-Oblong-Long Russet. Parentage (ND95264Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Russet Norkotah<sup>296</sup> 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: yield+

Weakness: some curved, oversized, some pointed rough, did not size

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

Weakness: too long, rough, many culls, oversized, curved, skinny second growth, raised eyes,

small

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: fresh

Strength: nice shape

Weakness: many culls, knobs, small, skinny oversized, flat

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: BOT+, FC=3.0

Weakness: some greenheads light russet, second set, low yield,

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: nice, nice skin nice shape, smooth, BOT+, FC=3.3 FC=3.0

Weakness: oversized growth crack low yield, ZC?

Snowden-Round White. Parentage (B5141-6 x Wischip). Cross was made and selected at University of Wisconsin. Late maturity. Large vine size. White flower color

Uses: chip

Strength: nice shape nice size smooth, CR=1.0 CR=2

Weakness: browncenter, hollow heart

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, few culls, keep, BOT,

Weakness: light set, low yield, small blocky,

TX08352-5Ru-Long Russet. Parentage (TXA549-1Ru x AOTX98137-1RU). Cross was made and selected in Texas.

Uses: fresh

Strength: blocky, fat tubers, nice shape, uniform BOT+

Weakness: smaller than normal, too round, blocky

TX08375-3R-Round Red Parentage (CO97222-1R/R x POR02PG26-5). Cross was made and selected in Texas.

Uses: fresh

Strength: heavy set, smooth Bruce Likes, good skin set small potato candidate

Weakness: small tubers feathering greenhead, silver scurf, ZC? DROP+++

TX09396-1W-Oblong White Parentage (Atlantic x NY139). Cross was made and selected in Texas.

Uses: chip

Strength: uniform, nice size, nice shape, small, keep, BOT, CR=1

Weakness:

TX09403-14W-Round White Parentage (Waneta x Ivory Crisp). Cross was made selected in Texas.

Uses: chip

Strength: nice, smooth, nice shape, nice size, CR=1

Weakness: drop

TX09406S-1P/P-Round Purple Parentage (A99331-2RY x CO00405-1R). Cross was made and selected in Texas.

Uses: fresh

Strength: small, skin finish ok, nice shape, skin, and flesh, good size, Keep for small keep, BOT,

FC=4.0 FC=5.0

Weakness: did not chip, feathering, lenticels

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: Lucy's Chip notes: Really intense purple good shape, very dark flesh, keep for chip and flesh, FC=4.5FC=5.0

Weakness: (probably too dark??). Variable chip color. Needs to be clean. Lucy's notes: Purple – Skin with some rough feeling. Cylindrical shape. Intense purple color skin. Some genetic segregation (?). Intense dark purple flesh with color variability, “silver scurf, poor shape, variable flesh color, faded skin color, road map, DROP,

TX10437-10P-Round Purple. Parentage (AOTX93483-1R x ATTX98500-3PW/Y). Cross was made and selected in Texas.

Uses: fresh

Strength: Bruce Likes very white flesh, FC=1.0

Weakness: pointed growth cracks poor shape+, DROP++,

TX11448-2R-Oblong Red Parentage (Rio Rojo x COTX94218-1R). Cross was made and selected in Texas.

Uses: fresh

Strength: , nice shape send to Larissa excellent color, Bruce Likes, lots of B's, nice shape, small, nice skin, BOT

Weakness: lenticels silver scurf

TX11448-3R-. Parentage (Rio Rojo x COTX94218-1R). Cross was made and selected in Texas.

Uses: fresh

Strength: nice round shape, small potato candidate keep

Weakness: light skin color light set, feathering,

TX11448S-4R-Round Red. Parentage (Rio Rojo x COTX94218-1R).Cross was made and selected in Texas.

Uses: fresh

Strength: white flesh, Kelly likes FC=1.0

Weakness: Rhizoctonia, light skin, low yield, mixed skin color DROP+++,

TX11458-1R/Y-Long Red/Yellow. Parentage (Rio Rojo x ATTX98444-16R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength: high yield Bruce Likes, small potato candidate, nice color

Weakness: pointed, poor skin finish, second set? , faded skin, feathering, heat sprouts, pointed, growth cracks, light set DROP+++

TX11458-2R/Y-Oblong Red/Yellow. Parentage (Rio Rojo x ATTX98444-16R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength: nice flesh good skin color, Bruce Likes, small potato candidate keep, FC=3

Weakness: some vascular discoloration rough, feathering, pointed, DROP++,

TX11458-3R/Y-Oblong Red/Yellow. Parentage (Rio Rojo x ATTX98444-16R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength: small potato candidate, nice color and flesh, keep, FC=3. FC=3.5

Weakness: feathering, variable size, heat sprouts, rough, pointed, light set, DROP+++,

TX12471-10W/Y-Round White/Yellow. Parentage (Rio Rojo x ATTX98444-16R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength: Kelly, very uniform, nice skin, size, and flesh, FC=3.5

Weakness:

TX12471-1R/Y-Oblong Red/Yellow Parentage (Rio Rojo x ATTX98444-16R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength: nice flesh, nice skin Keep++, FC=3.0

Weakness: rough,

TX12471-4R/Y-Long Red/Yellow. Parentage (Rio Rojo x ATTX98444-16R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness: heat sprouts, DROP++, FC=3.0

TX12471-5W/Y-Long White/Yellow. Parentage (Rio Rojo x ATTX98444-16R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength: high set, nice flesh Keep, FC=3.5

Weakness: small,

TX12471-6W/Y-Long White/Yellow. Parentage (Rio Rojo x ATTX98444-16R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength: very small size, BOT, FC=3.5

Weakness:

TX12471-7R/Y-Round Red/Yellow. Parentage (Rio Rojo x ATTX98444-16R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength: nice shape and skin Keep+, FC=3.5

Weakness: greenheads, some silver scurf,

TX12471-8R/Y-Oblong Red/Yellow. Parentage (Rio Rojo x ATTX98444-16R/Y).Cross was made and

selected in Texas.

Uses: fresh

Strength: nice skin, FC=3.0

Weakness: silver scurf, faded skin, pointed, poor internals, DROP+++,

TX12472-1R/Y-Round Red/Yellow. Parentage (Rio Rojo x ATTX98444-16R/Y). Cross was made and selected in Texas.

Uses: fresh

Strength: FC=3.5

Weakness: DROP++,

TX12472-2R-Oblong Red. Parentage (Rio Rojo x ATTX98444-16R/Y). Cross was made and selected in Texas.

Uses: fresh

Strength: nice shape FC=3.5

Weakness: silver scurf, DROP,

TX12474-1P/R-Long Purple/Red. Parentage (Rio Rojo x ATTX98444-16R/Y). Cross was made and selected in Texas.

Uses: fresh

Strength: Lucy's notes: Red –Nice smooth skin. Red /Purple external color. Nice red flesh color. The tubers are really appealing. , Lucy's Chip notes: Nice Red chips (Fry color more red than Mountain Rose). Overall really attractive chip color. I like it." keep for chip, BOT for flesh  
FC=4.0

Weakness: Some misshape tubers one chip with slight sugar accumulation, silver scurf,

TX12475-1P/P-Round Purple/Purple. Parentage (ATTX98444-16R/Y x COTX04050-1P/P). Cross was made and selected in Texas.

Uses: fresh

Strength: FC=3.8

Weakness: DROP, did not chip,

TX12479-13W-Oblong White. Parentage (Atlantic x TX08402). Cross was made and selected in Texas.

Uses: chip

Strength: CR=2

Weakness: light set, poor flesh,

TX12479-16W-Round White. Parentage (Atlantic x TX08402). Cross was made and selected in Texas.

Uses: chip

Strength: nice size, CR=1

Weakness:

TX12479-1W-Round White. Parentage (Atlantic x TX08402). Cross was made and selected in Texas.

Uses: chip

Strength: nice shape, CR=2 CR=1

Weakness: light set, small, DROP

TX12483-4W-Oblong White. Parentage (TX08402 x Snowden). Cross was made and selected in Texas.

Uses: chip

Strength: CR=2

Weakness: oversized, rough, light set, deep eyes

TX12483-5W-Oblong White. Parentage (TX08402 x Snowden). Cross was made and selected in Texas.

Uses: chip

Strength: CR=1

Weakness: rough, hollow heart,

TX12483-6W-Round White. Parentage (TX08402 x Snowden). Cross was made and selected in Texas.

Uses: chip

Strength: CR=1

Weakness: small,



TX12483-8W-Oblong White. Parentage (TX08402 x Snowden).Cross was made and selected in Texas.

Uses: chip

Strength: nice size CR=1

Weakness: large tubers,

TX12484-1W ZC-Oblong White. Parentage (TX08402 x NDTX059828-2W).Cross was made and selected in Texas.

Uses: chip

Strength: nice size, CR=1

Weakness:

TX12484-2W ZC-Oblong White. Parentage (TX08402 x NDTX059828-2W).Cross was made and selected in Texas.

Uses: chip

Strength: CR=1

Weakness: poor shape, deep eyes,

TX12484-3W ZC-Oblong White. Parentage (TX08402 x NDTX059828-2W).Cross was made and selected in Texas.

Uses: chip

Strength: nice shape, BOT, CR=1

Weakness:

TX12484-4W ZC-Oblong White. Parentage (TX08402 x NDTX059828-2W).Cross was made and selected in Texas.

Uses: chip

Strength: CR=1

Weakness: very large tubers, oversized,

TX12486-1W-Round White. Parentage (TX08402 x ATTX03474-1W).Cross was made and selected in Texas.

Uses: chip

Strength: nice shape, CR=2

Weakness:

TX12492-1R-Oblong Red. Parentage (COTX94218-1R x ATTX98510-1R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength: smooth, nice shape, keep+

Weakness: light skin greenhead,

TX12494-1R/Y-Round Red/Yellow. Parentage (COTX94218-1R x ATTX98510-1R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength: nice skin and flesh, Keep, FC=4

Weakness:

TX13512-1Ru Parentage (Stampede Russet x TXA549-1Ru).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness:

TX13524-1R Parentage (NDTX4271-5R x ATTX06246-1R).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness:

TX13524-2R Parentage (NDTX4271-5R x ATTX06246-1R).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness:

TX13528-5R/Y Parentage (BTX2103-1R/Y x COTX01403-4R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness:

TX13531-1W/Y Parentage (ATTX05186-3W/Y x ATX05202-3W/Y).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness:

TX13539-2W/Y Parentage (NDTX059886-1Y/Y x COTX01403-4R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness:

TX13539-4R/Y Parentage (NDTX059886-1Y/Y x COTX01403-4R/Y).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness:

TX13541-2P Parentage (Purple Peruvian x COTX08365-1P/P).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness:

TX13544-2R Parentage (CO03134-4RF/RW x TX08378-3R).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness:

TX13544-4R/R Parentage (CO03134-4RF/RW x TX08378-3R).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness:

TX13558-4P Parentage (TX08378-3R x COTX08365-1P/P).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness:

TX13558-5P Parentage (TX08378-3R x COTX08365-1P/P).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness:

TX13561-1Pinto/Y Parentage (NDTX059759-3Pinto/Y x ATTX06246-1R).Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness:

TX13563-1W Parentage (Snowden x ATX05202-3W/Y).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13563-3W Parentage (Snowden x ATX05202-3W/Y).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13563-5W Parentage (Snowden x ATX05202-3W/Y).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13565-1W Parentage (Snowden x ATTX05175-1R/Y).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13565-2W Parentage (Snowden x ATTX05175-1R/Y).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13566-1W Parentage (Snowden x COTX04050-1P/P).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13566-5W Parentage (Snowden x COTX04050-1P/P).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13572-3W Parentage (Snowden x NDTX071217CB-1W/Y).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13574-1W Parentage (CO03243-3W x Snowden).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13574-3W Parentage (CO03243-3W x Snowden).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13574-4W Parentage (CO03243-3W x Snowden).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13578-10W Parentage (Waneta x Snowden).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13578-4W Parentage (Waneta x Snowden).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13578-6W Parentage (Waneta x Snowden).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13579-1R Parentage (Waneta x CO03243-3W).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13580-1W Parentage (Waneta x 00-3315-11).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13580-2W Parentage (Waneta x 00-3315-11).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13582-3W Parentage (Waneta x PALB03016-3).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13582-4W Parentage (Waneta x PALB03016-3).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13582-5W Parentage (Waneta x PALB03016-3).Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness:

TX13585-1W Parentage (00-3315-11 x PALB03016-3). Cross was made and selected in Texas.

Uses: chip

Strength:

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: blocky, nice shape, BOT+

Weakness: lenticels

TXNS410-Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. TXNS410 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah. Early maturity. Medium-large vine size. White flower color.

Uses: fresh

Strength:

Weakness: nice shape and skin, small, keep

Waneta-Oblong White. Parentage (Marcy x NY115). Cross made and selected at Cornell University.

Uses: chip

Strength: very nice very white flesh yield+, BOT, CR=2 CR=1

Weakness: deep eyes, ZC poor internals

White LaSoda-Oblong White. Parentage (Triumph x Katahdin).

Uses: fresh

Strength: red eyes yield++ FC=1.0

Weakness: rough deep eyes, oversized

WTX10640-2W-Round White Parentage (Torridon x A-32). Cross was made in Wisconsin and selected in Texas.



Uses: chip

Strength: nice shape heavy set, very white flesh, keep CR=1

Weakness: too small low yield

WTX10640-3W-Round White Parentage (Torrison x A-32).Cross was made in Wisconsin and selected in Texas.

Uses: chip

Strength: nice skin, keep CR=1

Weakness: low yield

WTX10646-2W-Oblong White Parentage (W2324-1 x Eva).Cross was made in Wisconsin and selected in Texas.

Uses: chip

Strength: heavy set, good yield, smooth, nice shape, keep CR=1

Weakness: some rough

WTX10666-8W-Oblong White Parentage (Tacna x W2717-5).Cross was made in Wisconsin and selected in Texas.

Uses: chip

Strength: nice shape, smooth, CR=1

Weakness:

WTX13058-1W Parentage (Lelah x Nicolet).Cross was made in Wisconsin and selected in Texas.

Uses: chip

Strength:

Weakness:

WTX13068-1W Parentage (W8822-2 x W6609-3).Cross was made in Wisconsin and selected in Texas.

Uses: chip

Strength:

Weakness:

WTX13073-1W/Y Parentage (W2438-3 x YC115). Cross was made in Wisconsin and selected in Texas.

Uses: chip

Strength:

Weakness:

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: nice shape uniform, nice, FC=2.5

Weakness: low yield oversized

Appendix B. Parentage of potato varieties or selections-2015.

Variety or Selection	Parentage
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 70-9
Atlantic	Wauseon x Lenape
Avalanche	DHS40-1034 9 x Maris Piper
Aziza	Smeenge 69-17 x Smeenge74-5
Baltic Cream	?
Banana	?
Beacon Chipper	??
Bettina	?
Binje	Munstersen x Fransen
Boulder	MS702-80 x NY88
Caesar	Monalisa x Rop B 1176
Carola	
Carrera	
Century	A6789-7 x A6680-5
Chieftan	la1027-18 x La1354
Chipeta	WNC612-13 x Wischip
Climax	Bintje x Record
Courage	
Dakota Jewel	ND2223-8R x ND649-4R
Dark Red Norland	Redkote x ND626
Day-9	
Delikat	
Desiree	Urgenta x Depesche
Diamante	TDV54-30-8 x SVP55-89
Dore	Duke of York x BiermaA7
Eerstelling	Early Primrose x King Kidney
Eigenheimer	Blaue Riesen x Fransen
Electra	C1992/42 x Picasso
Emma	Colleen x Estima

Variety or Selection	Parentage
Estima	
Fabula	
Florissant	Premiere x VK 69-491
Fortuna	
Foxton	Irene x Maris Piper
Gasora	?
German Butter Ball	
Golden Sunburst	
Granola	3333 60 x 267 04
Green Mountain	Dunmore x Excelsior
Hertha	Dijkhuis61-133 x Konst62-374
Innovator	Shepody x RZ 84-2580
Irish Crispin	Amigo x DH70-699 3a
Ivory Crisp	ND292-1 x A77268-4
Kalkaska	B1254-1 X S440
Keuka Gold	Steuben x Norwis
King Harry	
Krasaua	Visnovske Rohlic x B53
La Rouge	LaSoda x Progress
Lanorma	Bydand x Caesar
Latona	Jaerla x Nicola
Magic Molly	Open pollinated seed ball from Red Beauty
Maris Piper	
Mazama	ND1196-2R x Redsen
MegaChip	Wischip x FYF85
Merlin	Cara x 93/2
Modoc	ND1196-2R x ND2225-1R
Molli	
Mondial	Spunta x Ve 66-295
Morning Gold	Olinda x Y 68-4-103
Nectar	Famosa x Red Cara
NorDonna	ND206-1R x ND821-6R
Norgold-M	ND2475-8 x A119-1
NorValley	NorChip x ND860-2
Oscar	Desiree x VK 64 491
Ottar	Dore x DsxAS-737
Pacific Russet	NDA8694-3 x Century Russet
Penta	Bellona x Estima
Pimpernel	

Variety or Selection	Parentage
Platina	
Premiere	
Primica Inta	
Prince Hairy	Hudson x PI 310925
Purple Majesty	ND2008-2 x All Blue
Purple Peruvian	ND1562-4R x NDTX9-1098-11R
Ranger Russet	Butte x A6595-3
Red Gold	G68211 x G6521-4RY
Red LaSoda	Triumph x Katahdin
Rio Rojo	ND1562-4R x NDTX9-1098-11R
Rodeo	Mondial x Bimonda
Rosara	Secura x 2605 77
Rose Gold	Abnaki x G6521-4RY
Russet Burbank	Mutant from Burbank
Russet Legend	Century Russet x WNC672-2
Russet Norkotah	ND9526-4RU x ND9687-5Ru
Russet Norkotah112	ND9526-4RU x ND9687-5Ru
Russet Norkotah223	ND9526-4RU x ND9687-5Ru
Russet Norkotah278	ND9526-4RU x ND9687-5Ru
Russet Norkotah296	ND9526-4RU x ND9687-5Ru
Rutt	Laila x Alcmaria
Saginaw Gold	MS321-38 x Michibonne
Sangre	Viking x A6356-9
Sangre10	Viking x A6356-9
Sante	SVPY66-13-636 x AM66-42
Satina	Puntila x 99 73
Shepody	Bake King x F58050
Sierra Gold™	Krantz x Delta Gold
Sierra Rose	A90601-2RDY X MAZAMA
Smiley	?
Snowden	B5141-6 x Wischip
Soraya	?
Sprint	SIRCO x MIN 72-74
Stampede Russet	BR7091-1 x Lemhi Russet
Strobrawa	MPI55 957/54 x Mira
Super Red	
Tebina	?
Ukama	Marijke x Sirtema
Urgenta	Furore x Katahdin

Variety or Selection	Parentage
US Blue	?
Valisa	
Viking	Redskin x Nordak
Vivaldi	TZ 77-148 x Monalisa
Vokal	Primura x Rheinhort
Waneta	??
Winema	Redsen x ND1196-2R
Yellow Finn	
Yukon Gold	W5279-4 x NorGleam
<b>Numbered Clones</b>	
A03141-6	A098083-9 x Premier Russet
A03921-2	A96953-13 x A93005-10
A05180-3PY	ATND9331-2 x VC1075-1R
A05182-7RY	ATND93331-2 x A99433-5Y
A06021-1T	A99031-1TE x A96013-2
A06084-1TE	A98345-1 x A97267-1
A06084-1TE	A98345-1 x A97267-1
A06862-18VR	PA98V1-2 x A98345-1
A06914-3CR	A00715-8 x Alpine Russet
AC00206-2W	AC87340-2 x Dakota Pearl
AC03433-1W	A94322-8C. x COA96141-4
AC03452-2W	A98423-1C x COA96141-2C
AC05039-2RU	A99032-2TE x COA00287-1
AC05153-1W	A91814-5 x Chipeta
AC05175-3P/Y	A99331-2R/Y x COA99261-1RY
AF0338-17	AF303-5 x SA821I-6
AF4157-6	Yankee Chipper x Dakota Pearl
AF4648-2	NY132 x Liberator
AO01114-4	AO92017-6 x A86102-6
AO03123-2	A98082-17 x Premier Russet
AOR06070-1KF	
AORTX09032-3W	A03449-2C x Ivory Crisp
AORTX09033-11W	CO96141-4W x Ivory Crisp
AORTX09033-14W	CO96141-4W x Ivory Crisp
AORTX09033-4W	CO96141-4W x Ivory Crisp
AORTX09033-9W	CO96141-4W x Ivory Crisp
AORTX09037-1W	Fasan x Ivory Crisp
AORTX09037-3W	Fasan x Ivory Crisp
AORTX09037-4W	Fasan x Ivory Crisp

Variety or Selection	Parentage
AORTX09037-5W	Fasan x Ivory Crisp
AORTX09144-2W	A02516-102LB x PALB03016-3
AORTX09147-1W	A02516-102LB x A98334-2
AORTX10119-1W	A05079-12 x A05548-1
AORTX10121-2Ru	A05079-12 x Dakota Trailblazer
AORTX10127-1Ru	A05084-1 x A03158-1TE
AORTX10247-1W/Y	Lady Britta x NY139
AORTX11084-1Ru	A06016-5TE x A98196-5
AORTX11175-1Ru	Blazer Russet x COA05149-2
AORTX11234-1W	A02093-1 x A01025-4
AORTX11455-4W	A00206-1C x MSJ316A-LF
AORTX11468-1W	A03449-2C x MSJ316A-LF
AORTX11476-2W	A05158-2C X MSJ316A-LF
AORTX11513-1W	MSK061-4 x 00-3115-11
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
AORTX11913-8WRE/Y	A03576-5Y x NDA050237B-1R
AORTX11914-4W	A03576-5Y x Mila
ATTX00289-5R/Y	NDA5507-3 X TXA1655-1DY
ATTX05175S-1R/Y	A99331-2RY X COA99261-IRY
ATTX07039-2Ru	Stampede Russet EM x AO0385-2 EM 400
ATTX10262-1P	A02267-2PY X NorDonna
ATTX10265-4R/Y	A02267-2PY X US 147-96RIY
ATTX10265-6P/Y	A02267-2PY X US 147-96RIY
ATTX10265-7P/Y	A02267-2PY X US 147-96RIY
ATTX10265-8P/Y	A02267-2PY X US 147-96RIY
ATTX108402-1P/P	
ATTX11476-11W	A05158-2C x MSJ316A-LF
ATTX11476-12W	A05158-2C x MSJ316A-LF
ATTX11476-2W	A05158-2C x MSJ316A-LF
ATTX11476-3W	A05158-2C x MSJ316A-LF
ATTX11484-3W	A05158-2C X 00-3115-11
ATTX98444S-16R/Y	A83360-9R X T48YF
ATTX98453-6R	A93490-1R x A91846-5R
ATTX98514-1R/Y	T51YF X A93456-6R
ATX00289-2Ru	NDA5507-3 X TXA1655-1DY
ATX05186S-1R	A99433-5Y x VC1075-1R

Variety or Selection	Parentage
ATX05202S-3W/Y	A00286-3Y x A99433-5Y
ATX06264S-4R/Y	A99331-2RY x Durango Red
ATX08098-1W	A031087-101R x R 89063-84
ATX08117-1P/Y	A02267-2PY x COA01406-1R
ATX08117-3P	A02267-2PY x COA01406-1R
ATX08117-8P/Y	A02267-2PY x COA01406-1R
ATX08120-1W/Y	A02267-2PY x POR02PG26-5
ATX08121-1R/Y	A02267-5PY x CO98012-5R
ATX08121-3P/Y	A02267-5PY x CO98012-5R
ATX08121-5R	A02267-5PY x CO98012-5R
ATX10148-1Ru	A05355-1VR x Stampede Russet
ATX10675-1Ru	A05379-217 x Dakota Trailblazer
ATX11039-1W	A05016-10 x A98196-5
ATX11354-1W	AF2850-9 x A01025-4
ATX11461-3W	A01143-3C x 00-3115-11
ATX11469-2W	A03449-2C x Karaka
ATX11952-1Ru	A02515-2 x A98196-5
ATX84378-6Ru	A79141-9 x ND329-1
ATX91137-1Ru	A81473-2 x A8343-12
BNC 182-5	Tacna X B0766-3
BTX1749-1W/Y	K7-6 x BO925-4
BTX2103-1R/Y	BO811-13 x ARS-W82-21285-1
BTX2332-1R	B1523-4 x Super Red Norland
CO04021-2R/Y	ATC98509-1R/Y x US147-96R/Y
CO05035-1PW/Y	Masquerade x US147-96
CO05037-2R/Y	AC99330-1P/Y x CO97227-2P/PW
CO05037-3W/Y	AC99330-1P/Y x CO97227-2P/PW
CO05068-1RU	AWN86514-2 x CO98009-3RU
CO05110-6RU	COA96054-3 x CO98009-3RU
CO05175-1RU	CO94035-15RU x AC96052-1RU
CO07015-4RU	Fortress Russet x AC00033-2RU
CO07049-1RU	AOA95155-7 x AC00594-4RU/Y
CO07070-10W	B0766-3T x CO00188-4W
CO07070-13W	B0766-3Tx CO00188-4W
CO07102-1R-	
CO07131-1W/Y	
CO07370-1W/Y	US147-96 x CO01399-10P/Y
COA07365-4RY	US147-96 x CO99256-2R
COTX02172-1R	CO94065-2R x ND3574-5R



Variety or Selection	Parentage
COTX02293-4R	CO94065-2R x ND3574-5R
COTX03134-1W	Laratte x PA97B36-3
COTX04050S-1P/P	CO97215-2P/P x CO97306-2P/P
COTX04193S-2R/Y	ATC98515-1R/Y x ND3574-5R
COTX05095-2Ru/Y	CO99045-1W/Y X AO96164-1
COTX05211-5R	CO98012-5R x CO00278-4R
COTX05249-3W/Y	CO00320-1R x ATC98509-1R/Y
COTX07054-2R	ATDC9801-3P x CO99076-6R
COTX07382-2W/Y	Blazer Russet x Innovator
COTX08044F-1R/R	FF x KP x FF x KP
COTX08258-6Ru	PA98V6-1 x Blazer russet
COTX08322-10Ru	Blazer Russet x AC96052-1RU
COTX08365F-1P/P	POR01PG16-1 x CO00405-1R
COTX08365F-3P/P	POR01PG16-1 x CO00405-1R
COTX09022-3RuRE/Y	A00286-3Y x CO99100-1RU
COTX09042-2Ru	CO99053-3RU x CO03202-1RU
COTX09052-1Ru	CO03202-1RU x CO98067-7RU
COTX09052-2Ru	CO03202-1RU x CO98067-7RU
COTX10010-1Ru	A0008-1TE x CO98067-7RU
COTX10031-1W	AC01151-5W x CO02033-1W
COTX10065-3W	CO02024-9W x CO02024-9W
COTX10073S-1W	A97066-42LB x Alpine Russet
COTX10076-11W	CO03243-3W x CO02024-9W
COTX10076-1W	CO03243-3W x CO02024-9W
COTX10076-7W	CO03243-3W x CO02024-9W
COTX10079-11W	CO03273-7W x CO02321-4W
COTX10080-2Ru	CO03364-5RU x CO98067-7RU
COTX10080-3Ru	CO03364-5RU x CO98067-7RU
COTX10080-5Ru	CO03364-5RU x CO98067-7RU
COTX10097-2W/Y	CO04067-10W/Y x CO00412-5W/Y
COTX10111-8Ru	Blazer Russet x CO98067-7RU
COTX10115-1Ru	Classic Russet x CO99100-1RU
COTX10138-16W/Ypinto	AC99329-7PW/Y x AC03534-2R/Y
COTX10138-18P/Y	AC99329-7PW/Y x AC03534-2R/Y
COTX10138-19P/Y	AC99329-7PW/Y x AC03534-2R/Y
COTX10138-8W/Ypinto	AC99329-7PW/Y x AC03534-2R/Y
COTX10138S-7WPE/Y	AC99329-7PW/Y x AC03534-2R/Y
COTX10141-11Ru	AC00395-2RU x CO03177-2RU
COTX10141-12Ru	AC00395-2RU x CO03177-2RU

Variety or Selection	Parentage
COTX10141-13Ru	AC00395-2RU x CO03177-2RU
COTX10226S-1WRE/Y	CO04117-5PW/Y x AC03534-2R/Y
COTX11001-1Ru	A98345-1 x AC96052-1RU
COTX11018-1Ru	A02060-3TE x COA06037-3
COTX11018-2Ru	A02060-3TE x COA06037-3
COTX11042-1W	CO99100-1RU x A98345-1
COTX11130-1WRE/Y	A99433-5Y x CO04099-4W/Y
COTX11140-1W/Y	A00293-2Y x CO05122-1W/Y
COTX11140-2WRE/Y	A00293-2Y x CO05122-1W/Y
COTX11140-3W/Y	A00293-2Y x CO05122-1W/Y
COTX11189-1Ru	AC02708-1RU x CO05132-2RU
COTX11206-1Ru	AO00057-2 x AOTX96265-2RU
COTX11222-9Ru	AOTX96265-2RU x CO99100-1RU
COTX11267-2WRE/Y	CO03060-2W/Y x A00286-3Y
COTX11381-1Ru	CO05206-8RU x Blazer Russet
COTX12226-1Ru	A02507-2LB x CO98067-7RU
COTX12235-1W	AC00206-2W x AC03433-1W
COTX12235-2W	AC00206-2W x AC03433-1W
COTX12236-3W	AC00206-2W x CO02024-9W
COTX12370-2Ru	CO06021-1RU x CO05206-8RU
COTX12428-1W	MSQ070-1 x CO02024-9W
COTX12428-2W	MSQ070-1 x CO02024-9W
MSK061-4	MSC148-An x Dakota Pearl
NDA050237B-1R	ND028678-1RY x ND028770B-4R
NDA081451CB-1CY	Dakota Diamond x ND 039173CAB-22
NDTX050070-1R	ND 8375b-6R x ND 8347CB-12R
NDTX050169-1R	ND 8555-8R x R 89063-83
NDTX059759-3RY/Y Pinto	ATND 99331-2 Pinto x ND 7834-2P
NDTX059828-2W	ND 4659-5R x ND 8524B-1R
NDTX059886S-1W/Y	NDA5507-3 X TXA1655-1DY
NDTX060700C-1W	NDTX 7560C-4 x NDTX 7192-1
NDTX071109C-1W	ND 7226C-17 x ND 860-2
NDTX071258BS-1R	ND 039035B-9R x ND 4659-5R
NDTX081451CBS-1Y/Y	Dakota Diamond x Gala
NDTX081572B-1R	ND 4659-5R X ND 028940B-102R
NDTX081644CAB-2W	ND 8331Cb-3 X ND 028804CAB-5
NDTX081648CB-13W	ND 8456-1 xND7377CB-1
NDTX091886-3P/P-	COND 04082-8RR X ND 7519-1
NDTX091908AB-2W	Ebt 6-21-5 X ND 7519-1

Variety or Selection	Parentage
NDTX092231C-1R	ND 049326C-2P x AND 00272-1R
NDTX092238CS-1P/W	ND 049326C-2P x ND 8555-8R
NDTX092238CS-3P/W	ND 049326C-2P x ND 8555-8R
NDTX092238CS-4P/W	ND 049326C-2P x ND 8555-8R
NDTX102461AB-4W	Ivory Crisp x ND 060421Ab-1
NDTX102462C-6W	Ivory Crisp x ND 060831C-1
NDTX102514ABC-5W	Etb 6-5-5 x ND 060831C-6
NDTX102639CS-1W	ND7550C-1 x ND060831C-6
NDTX102640Cb-1W	ND7550c-1 x ND071006B-2
NDTX102643CAB-1W	ND7799c-1 x ND060380Ab-5
NDTX102702C-1W	ND049326C-2P x ND059978C-1
NDTX102796CbS-2W	ND059999C-4 x ND060618CB-3
NDTX102816CABS-1W	ND060476CAb-6 x ND7519-1
NDTX102852CB-3Ru	ND060607B-4 x ND060831C-6
NDTX102852CB-4Ru	ND060607B-4 x ND060831C-6
NDTX102903-6R/R	ND060806-1R x ND4659-5R
NDTX113029C-2W	Dakota Diamond x ND6620-14
NDTX113030C-10W	Dakota Diamond x ND7192-1
NDTX113030C-3W	Dakota Diamond x ND7192-1
NDTX113030C-3W	Dakota Diamond x ND7192-1
NDTX113030C-5W	Dakota Diamond x ND7192-1
NDTX113030C-6W	Dakota Diamond x ND7192-1
NDTX113037C-2W	Dakota Pearl x ND060705C-8
NDTX113037C-3W	Dakota Pearl x ND060705C-8
NDTX113059-1W	Ivory Crisp x ND7192-1
NDTX113218C-2W	ND860-2 x ND5873-53
NDTX113218C-3W	ND860-2 x ND5873-53
NDTX113266C-1W	ND5873-53 x ND7192-1
NDTX113277-1W	ND7192-1 x Ivory Crisp
NDTX113432C-2R	ND050132C-6R x ND4659-5R
NDTX113438CB-1WRSPL	ND050157B-1R x ND7743-2RS
NDTX113460C-3W	ND059754-3PPinto x ND7743C-2RS
NDTX113461-1Rpinto	ND059754-3PPinto x ND8555-8R
NDTX113461-2R	ND059754-3PPinto x ND8555-8R
NDTX113467CB-1W	ND060485Cb-1 x ND7519-1
NDTX113549CB-1W	ND071076CV x ND6620-14
NDTX12130CB-1W	Ivory Crisp x ND7192-1
NDTX12135-1W	ND8559-20 x M3
NDTX12161CAB-1W	ND060837C-7 x ND7519-1

Variety or Selection	Parentage
NDTX12176AB-1Ru	ND06748AB-1 x ND7519-1
NDTX12180ABC-1W	ND060837C-7 x Ivory Crisp
NDTX12203AB-1W	ND028598c-1 x M2
NDTX12211C-1Ru	ND039104CAB-3 x Ivory Crisp
NDTX1244-3W	AND07358-1Y x ND7192-1
NDTX1246-2W	AND07358-1Y x ND8304-2
NDTX1246-3W	AND07358-1Y x ND8304-2
NDTX1246-4W	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	ND8559-20 x ND7379B-6
NDTX1292-1Ru	ND5873-53 x ND7379B-6
NDTX4784-7R	ND3574-5R x ND2050-1R
NDTX5438-11R	ND4339-10R x ND4269-9R
NY 148	NY128 x Marcy
OR05039-4	AO95245-2 x PA00N29-3
OR09256-2	Dakota Diamond x Russet Norkotah
ORTX12469-1Ru/Y	PIKE x C00412-5W/Y
ORTX12469-2Ru/Y	PIKE x C00412-5W/Y
POR06V12-3	PA00V6-4 x PA01N22-1
TX08352-5Ru	TXA549-1Ru x AOTX98137-1RU
TX08375-3R	CO97222-1R/R x POR02PG26-5
TX09396-1W	Atlantic x NY139
TX09403-14W	Waneta x Ivory Crisp
TX09406S-1P/P	A99331-2RY x CO00405-1R
TX09429-1P/P	COTX0325-1P/P x COTX04050-1P/P
TX10437-10P	AOTX93483-1R x ATTX98500-3PW/Y
TX11448-2R	Rio Rojo x COTX94218-1R
TX11448-3R	Rio Rojo x COTX94218-1R
TX11448S-4R	Rio Rojo x COTX94218-1R
TX11458-1R/Y	Rio Rojo x ATTX98444-16R/Y
TX11458-2R/Y	Rio Rojo x ATTX98444-16R/Y
TX11458-3R/Y	Rio Rojo x ATTX98444-16R/Y
TX12471-10W/Y	Rio Rojo x ATTX98444-16R/Y
TX12471-1R/Y	Rio Rojo x ATTX98444-16R/Y
TX12471-4R/Y	Rio Rojo x ATTX98444-16R/Y
TX12471-5W/Y	Rio Rojo x ATTX98444-16R/Y
TX12471-6W/Y	Rio Rojo x ATTX98444-16R/Y

Variety or Selection	Parentage
TX12471-7R/Y	Rio Rojo x ATTX98444-16R/Y
TX12471-8R/Y	Rio Rojo x ATTX98444-16R/Y
TX12472-1R/Y	Rio Rojo x ATTX98444-16R/Y
TX12472-2R	Rio Rojo x ATTX98444-16R/Y
TX12474-1P/R	Rio Rojo x ATTX98444-16R/Y
TX12475-1P/P	ATTX98444-16R/Y x COTX04050-1P/P
TX12479-13W	Atlantic x TX08402
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 ZC	TX08402 x NDTX059828-2W
TX12484-2W ZC	TX08402 x NDTX059828-2W
TX12484-3W ZC	TX08402 x NDTX059828-2W
TX12484-4W ZC	TX08402 x NDTX059828-2W
TX12486-1W	TX08402 x ATTX03474-1W
TX12492-1R	COTX94218-1R x ATTX98510-1R/Y
TX12494-1R/Y	COTX94218-1R x ATTX98510-1R/Y
TX13512-1Ru	Stampede Russet x TXA549-1Ru
TX13524-1R	NDTX4271-5R x ATTX06246-1R
TX13524-2R	NDTX4271-5R x ATTX06246-1R
TX13528-5R/Y	BTX2103-1R/Y x COTX01403-4R/Y
TX13531-1W/Y	ATTX05186-3W/Y x ATX05202-3W/Y
TX13539-2W/Y	NDTX059886-1Y/Y x COTX01403-4R/Y
TX13539-4R/Y	NDTX059886-1Y/Y x COTX01403-4R/Y
TX13541-2P	Purple Peruvian x COTX08365-1P/P
TX13544-2R	CO03134-4RF/RW x TX08378-3R
TX13544-4R/R	CO03134-4RF/RW x TX08378-3R
TX13558-4P	TX08378-3R x COTX08365-1P/P
TX13558-5P	TX08378-3R x COTX08365-1P/P
TX13561-1Pinto/Y	NDTX059759-3Pinto/Y x ATTX06246-1R
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

<b>Variety or Selection</b>	<b>Parentage</b>
<b>TX13566-5W</b>	<b>Snowden x COTX04050-1P/P</b>
<b>TX13572-3W</b>	<b>Snowden x NDTX071217CB-1W/Y</b>
<b>TX13574-1W</b>	<b>CO03243-3W x Snowden</b>
<b>TX13574-3W</b>	<b>CO03243-3W x Snowden</b>
<b>TX13574-4W</b>	<b>CO03243-3W x Snowden</b>
<b>TX13578-10W</b>	<b>Waneta x Snowden</b>
<b>TX13578-4W</b>	<b>Waneta x Snowden</b>
<b>TX13578-6W</b>	<b>Waneta x Snowden</b>
<b>TX13579-1R</b>	<b>Waneta x CO03243-3W</b>
<b>TX13580-1W</b>	<b>Waneta x 00-3315-11</b>
<b>TX13580-2W</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>TXA549-1Ru</b>	<b>ND9687-3Ru x ND9852-1Ru</b>
<b>TXNS410</b>	<b>ND9526-4Ru x ND9687-5Ru</b>
<b>White LaSoda</b>	<b>Triumph x Katahdin</b>
<b>WTX10640-2W</b>	<b>Torridon x A-32</b>
<b>WTX10640-3W</b>	<b>Torridon x A-32</b>
<b>WTX10646-2W</b>	<b>W2324-1 x Eva</b>
<b>WTX10666-8W</b>	<b>Tacna x W2717-5</b>
<b>WTX13058-1W</b>	<b>Lelah x Nicolet</b>
<b>WTX13068-1W</b>	<b>W8822-2 x W6609-3</b>
<b>WTX13073-1W/Y</b>	<b>W2438-3 x YC115</b>

## Index of Varieties and Clones

A03141-6 .....	21, 23, 127, 128, 129, 243, 316
A03921-2 .....	21, 22, 23, 128, 129, 243, 316
A05180-3PY .....	34, 35, 36, 140, 142, 243, 316
A05182-7Y .....	41, 43, 147, 149
A06021-1T.....	21, 23, 128, 129, 244, 316
A06084-1TE .....	22, 23, 127, 128, 129, 244, 316
A06862-18VR.....	21, 22, 23, 128, 129, 244, 316
A06914-3CR.....	22, 23, 127, 129, 244, 316
AC00206-2W .....	12, 13, 14, 15, 119, 120, 121, 245, 277, 278, 316, 320
AC03433-1W .....	12, 14, 15, 120, 121, 245, 277, 278, 316, 320
AC03452-2W .....	13, 15, 119, 121, 245, 316
AC05039-2RU .....	21, 22, 23, 127, 128, 129, 245, 316
AC05153-1W.....	12, 13, 15, 120, 121, 245, 316
AC05175-3P/Y .....	34, 35, 36, 140, 142, 246, 316
AF0338-17 .....	119, 120, 121, 246, 316
AF4157-6.....	119, 120, 121, 246, 316
AF4648-2 .....	120, 121, 246, 316
AO01114-4 .....	21, 22, 23, 127, 128, 129, 246, 316
AO03123-2 .....	22, 23, 128, 129, 247, 316
AOR06070-1KF.....	22, 23, 127, 128, 129, 247, 316
AORTX09032-3W.....	48, 155, 157, 247, 316
AORTX09033-11W.....	48, 155, 157, 247, 316
AORTX09033-14W.....	48, 155, 157, 247, 316
AORTX09033-4W.....	48, 154, 155, 157, 248, 316
AORTX09037-1W.....	48, 154, 155, 157, 248, 316
AORTX09037-3W.....	48, 156, 157, 248, 316
AORTX09037-4W.....	48, 154, 155, 157, 248, 316
AORTX09037-5W.....	48, 154, 155, 157, 249, 317
AORTX09144-2W.....	48, 154, 156, 157, 249, 317
AORTX09147-1W.....	87, 207, 211, 249, 317
AORTX10119-1W.....	221, 222, 249, 317
AORTX10127-1Ru.....	58, 171, 173, 249, 317

AORTX10247-1W/Y.....	48, 155, 157, 250, 317
AORTX11084-1Ru.....	221, 222, 250, 317
AORTX11234-1W.....	221, 222, 250, 317
AORTX11468-1W.....	87, 207, 209, 211, 251, 317
AORTX11476-2W.....	48, 154, 155, 157, 251, 317
AORTX11513-1W.....	210, 211, 251, 317
AORTX11913-3Wre/Y.....	80, 198, 200, 251, 317
AORTX11913-4P.....	87, 207, 209, 211, 251, 317
AORTX11913-5P.....	87, 207, 208, 211, 252, 317
AORTX11913-6P/Y.....	87, 207, 208, 210, 211, 252, 317
AORTX11913-8WRE/Y.....	207, 208, 211, 252, 317
AORTX11914-4W.....	209, 211, 252, 317
Atlantic(CSS).....	119, 121
Atlantic(Oregon).....	120, 121, 157
ATTX00289-5R/Y.....	34, 36, 140, 142, 253, 317
ATTX05175S-1R/Y.....	87, 88, 89, 90, 207, 209, 210, 211, 253, 317
ATTX10262-1P.....	109, 111, 236, 238, 253, 317
ATTX10265-4R/Y.....	73, 189, 190, 191, 254, 317
ATTX10265-6P/Y.....	236, 238, 254, 317
ATTX10265-7P/Y.....	236, 238, 254, 317
ATTX10265-8P/Y.....	109, 110, 111, 236, 238, 254, 317
ATTX108402-1P/P.....	229, 231, 254, 317
ATTX11476-11W.....	48, 155, 157, 255, 317
ATTX11484-3W.....	48, 154, 156, 157, 255, 317
ATTX98444S-16R/Y.....	34, 35, 36, 140, 141, 142, 256, 317
ATTX98453-6R.....	28, 29, 134, 135, 256, 317
ATTX98514-1R/Y.....	4, 34, 36, 140, 141, 142, 256, 317
ATX05186S-1R.....	87, 88, 89, 90, 207, 208, 211, 256, 317
ATX05202S-3W/Y.....	4, 41, 42, 43, 147, 148, 149, 257, 318
ATX06264S-4R/Y.....	87, 88, 89, 90, 207, 208, 210, 211, 257, 318
ATX08098-1W.....	210, 211, 257, 318
ATX08117-1P/Y.....	236, 238, 257, 318
ATX08117-3P.....	87, 207, 209, 210, 211, 258, 318
ATX08117-8P/Y.....	236, 238, 258, 318



ATX08120-1W/Y .....	205, 206, 258, 318
ATX08121-1R/Y .....	208, 211, 258, 318
ATX08121-3P/Y .....	109, 111, 236, 238, 258, 318
ATX08121-5R .....	66, 180, 182, 259, 318
ATX11039-1W .....	207, 209, 211, 259, 318
ATX11354-1W .....	169, 170, 259, 318
ATX11469-2W .....	209, 211, 260, 318
ATX11952-1Ru .....	58, 171, 173, 260, 318
ATX84378-6Ru .....	58, 59, 60, 61, 171, 172, 173, 260, 318
ATX91137-1Ru .....	21, 22, 23, 127, 128, 129, 260, 318
Baltic Cream .....	13, 15, 119, 120, 121, 260, 313
Banana .....	95, 97, 221, 222, 261, 313
BNC182-5 .....	119, 121
BTX1749-1W/Y .....	80, 81, 82, 198, 199, 200, 261, 318
BTX2103-1R/Y .....	34, 36, 140, 141, 142, 261, 305, 318, 323
BTX2332-1R .....	66, 67, 68, 180, 182, 262, 318
Chieftan .....	28, 29, 134, 135, 262, 313
CO04021-2R/Y .....	34, 36, 140, 142, 263, 318
CO05035-1PW/Y .....	41, 43, 147, 149, 264, 318
CO05037-2R/Y .....	34, 35, 36, 140, 142, 264, 318
CO05037-3W/Y .....	41, 43, 147, 149, 264, 318
CO05068-1RU .....	21, 22, 23, 127, 128, 129, 264, 318
CO05110-6RU .....	21, 23, 127, 129, 264, 318
CO05175-1RU .....	22, 23, 128, 129, 265, 318
CO07015-4RU .....	21, 22, 23, 128, 129, 265, 318
CO07049-1RU .....	21, 23, 127, 129, 265, 318
CO07070-10W .....	13, 15, 119, 120, 121, 265, 318
CO07070-13W .....	12, 13, 15, 119, 121, 265, 318
CO07102-1R .....	28, 29, 134, 135, 266, 318
CO07131-1W/Y .....	41, 42, 43, 147, 148, 149, 266, 318
CO07370-1W/Y .....	41, 42, 43, 147, 148, 149, 266, 318
COA07365-4RY .....	34, 35, 36, 140, 141, 142, 266, 318
COTX02293-4R .....	66, 67, 68, 181, 182, 267, 319
COTX03134-1W .....	41, 43, 147, 148, 149, 200, 267, 319

COTX04050S-1P/P.....	87, 88, 89, 90, 207, 208, 211, 267, 319
COTX04193S-2R/Y .....	87, 89, 90, 207, 208, 210, 211, 267, 319
COTX05211-5R.....	66, 67, 68, 180, 182, 268, 319
COTX05249-3WRE/Y .....	80, 81, 82, 198, 200
COTX07054-2R.....	66, 67, 68, 180, 181, 182, 268, 319
COTX07382-2W/Y.....	80, 81, 82, 198, 200, 268, 319
COTX08044F-1R/R.....	95, 96, 97, 221, 222, 268, 319
COTX08258-6Ru.....	58, 59, 61, 171, 173, 269, 319
COTX08365F-1P/P.....	95, 96, 97, 221, 222, 269, 319
COTX08365F-3P/P.....	95, 96, 97, 221, 222, 269, 319
COTX09022-3RuRE/Y.....	4, 21, 22, 23, 128, 129, 269, 319
COTX09052-1Ru.....	58, 59, 61, 171, 172, 173, 270, 319
COTX09052-2Ru.....	4, 21, 23, 128, 129, 270, 319
COTX10010-1Ru.....	58, 59, 61, 171, 173, 270, 319
COTX10065-3W.....	210, 211, 271, 319
COTX10073S-1W .....	87, 88, 89, 90, 207, 209, 211, 271, 319
COTX10079-11W.....	48, 49, 52, 154, 155, 157, 272, 319
COTX10080-2Ru.....	58, 59, 61, 171, 172, 173, 272, 319
COTX10097-2W/Y.....	80, 81, 82, 198, 199, 200, 272, 319
COTX10138-18P/Y .....	109, 110, 111, 236, 238, 273, 319
COTX10138-19P/Y .....	109, 110, 111, 236, 237, 238, 273, 319
COTX10138-8W/Ypinto .....	81, 82, 198, 199, 200, 274, 319
COTX10138S-7W/Y .....	87, 88, 89, 90, 207, 208, 211
COTX10141-11Ru.....	58, 59, 61, 171, 172, 173, 274, 319
COTX10141-12Ru.....	58, 60, 61, 171, 172, 173, 274, 319
COTX10141-13Ru.....	58, 59, 61, 171, 173, 274, 320
COTX10226S-1W/Y .....	87, 88, 90, 207, 208, 211
COTX11042-1W.....	221, 222, 275, 320
COTX11130-1WRE/Y .....	199, 200, 275, 320
COTX11140-1W/Y.....	210, 211, 276, 320
COTX11140-2WRE/Y .....	199, 200, 276, 320
COTX11140-3W/Y.....	209, 211, 276, 320
COTX11267-2WRE/Y .....	210, 211, 277, 320
COTX12226-1Ru.....	178, 179, 277, 320

COTX12235-1W.....	169, 170, 277, 320
COTX12235-2W.....	169, 170, 278, 320
COTX12236-3W.....	169, 170, 278, 320
COTX12370-2Ru.....	178, 179, 278, 320
COTX12428-1W.....	169, 170, 278, 320
COTX12428-2W.....	169, 170, 278, 320
Kea.....	12, 13, 15, 120, 121, 279
MSK061-4 .....	120, 121, 251, 279, 317, 320
NDA050237B-1R .....	28, 29, 134, 135, 251, 252, 279, 317, 320
NDA081451CB-1CY.....	41, 42, 43, 147, 149, 279, 320
NDTX050070-1R .....	66, 67, 68, 180, 182, 279, 320
NDTX050169-1R .....	87, 209, 210, 211, 280, 320
NDTX059759-3RY/Y Pinto.....	80, 81, 82, 199, 200, 280, 320
NDTX059828-2W .....	48, 154, 156, 157, 280, 303, 320, 323
NDTX059886S-1W/Y.....	87, 88, 89, 90, 208, 211, 280, 320
NDTX060700C-1W.....	48, 49, 50, 52, 154, 156, 157, 280, 320
NDTX071109C-1W.....	4, 48, 50, 52, 154, 155, 157, 281, 320
NDTX071258BS-1R.....	87, 89, 90, 207, 209, 211, 281, 320
NDTX081451CBS-1Y/Y.....	87, 88, 89, 90, 207, 210, 211, 281, 320
NDTX081572B-1R.....	66, 67, 68, 181, 182, 281, 320
NDTX081648CB-1W .....	48, 154, 155, 157
NDTX091886-3P/P.....	102, 104, 229, 230, 231, 282, 320
NDTX092231C-1R.....	66, 67, 68, 180, 181, 182, 282, 321
NDTX092238CS-1P/W .....	87, 88, 89, 90, 208, 211, 283, 321
NDTX092238CS-3P/W .....	87, 88, 89, 90, 207, 208, 211, 283, 321
NDTX092238CS-4P/W .....	87, 88, 89, 90, 207, 211, 283, 321
NDTX102514ABC-5W .....	4, 48, 50, 52, 154, 155, 157, 284, 321
NDTX102639CS-1W .....	87, 88, 90, 207, 208, 211, 284, 321
NDTX102640Cb-1W.....	4, 48, 49, 52, 155, 157, 284, 321
NDTX102702C-1W.....	48, 49, 52, 155, 157, 284, 321
NDTX102796CbS-2W .....	48, 50, 52, 87, 154, 155, 157, 284, 321
NDTX102816CABS-1W .....	87, 88, 89, 90, 207, 208, 210, 211, 285, 321
NDTX102852CB-3Ru .....	48, 50, 52, 154, 155, 157, 285, 321
NDTX102852CB-4Ru.....	48, 49, 51, 52, 154, 155, 157, 285, 321

NDTX102903-6R/R.....	102, 103, 104, 229, 231, 285, 321
NDTX113029C-2W.....	48, 155, 157, 286, 321
NDTX113030C-10W.....	48, 154, 156, 157, 286, 321
NDTX113030C-3W.....	48, 50, 52, 155, 157, 286, 321
NDTX113037C-2W.....	87, 88, 90, 207, 208, 211, 287, 321
NDTX113037C-3W.....	48, 154, 155, 157, 287, 321
NDTX113432C-2R.....	209, 211, 288, 321
NDTX113438CB-1WRSPL .....	80, 81, 82, 198, 200, 288, 321
NDTX113460C-3W.....	207, 209, 211, 289, 321
NDTX113461-1Rpinto .....	198, 200, 289, 321
NDTX113461-2R .....	207, 208, 211, 289, 321
NDTX113467CB-1W .....	48, 49, 52, 154, 155, 157, 289, 321
NDTX113549CB-1W .....	169, 170, 289, 321
NDTX12130CB-1W .....	219, 220, 290, 321
NDTX12135-1W .....	169, 170, 290, 321
NDTX12161CAB-1W .....	169, 170, 290, 321
NDTX12176AB-1Ru.....	169, 170, 290, 322
NDTX12180ABC-1W .....	178, 179, 290, 322
NDTX12203AB-1W .....	169, 170, 290, 322
NDTX12211C-1Ru.....	169, 170, 291, 322
NDTX1244-3W .....	169, 170, 291, 322
NDTX1246-2W .....	169, 170, 291, 322
NDTX1246-3W .....	169, 170, 291, 322
NDTX1246-4W .....	169, 170, 291, 322
NDTX1246-5W .....	169, 170, 292, 322
NDTX1246-6W .....	169, 170, 292, 322
NDTX1246-7W .....	169, 170, 292, 322
NDTX1287B-1W.....	219, 220, 292, 322
NDTX1292-1Ru .....	169, 170, 292, 322
NDTX4784-7R .....	66, 67, 68, 180, 181, 182, 293, 322
NDTX5438-11R .....	28, 29, 134, 135, 293, 322
NY148.....	119, 120, 121
OR05039-4.....	21, 22, 23, 127, 128, 129, 293, 322
OR09256-2.....	13, 15, 119, 121, 293, 322

ORTX12469-1Ru/Y.....	169, 170, 294, 322
ORTX12469-2Ru/Y.....	169, 170, 294, 322
POR06V12-3.....	22, 23, 127, 129, 294, 322
Ranger Russet .....	21, 22, 23, 127, 128, 129, 294, 315
Red LaSoda.....	28, 29, 66, 67, 68, 134, 135, 180, 182, 294, 315
Russet Burbank .....	21, 22, 23, 127, 128, 129, 295, 315
Russet Norkotah.....	viii, 1, 21, 22, 23, 58, 59, 61, 127, 129, 171, 173, 293, 295, 310, 315, 322
Russet Norkotah278.....	21, 22, 23, 127, 129, 295, 315
Russet Norkotah296.....	21, 23, 128, 129, 295, 315
Shepody .....	22, 23, 127, 128, 129, 296, 314, 315
Sierra Gold.....	41, 42, 43, 147, 148, 149, 296, 315
Sierra Rose.....	73, 74, 75, 189, 190, 191, 296, 315
Snowden.....	13, 15, 119, 121, 296, 302, 303, 306, 307, 308, 315, 323, 324
Stampede Russet .....	58, 59, 60, 61, 171, 172, 173, 253, 259, 296, 304, 315, 317, 318, 323
TX08352-5Ru .....	4, 21, 22, 23, 127, 128, 129, 297, 322
TX08375-3R .....	66, 67, 68, 180, 182, 297, 322
TX09406S-1P/P .....	87, 88, 89, 90, 207, 209, 211, 297, 322
TX09429-1P/P .....	102, 104, 229, 231, 298, 322
TX10437-10P.....	110, 111, 236, 238, 298, 322
TX11448-2R .....	66, 67, 68, 180, 182, 298, 322
TX11448-3R .....	67, 68, 181, 182, 298, 322
TX11448S-4R.....	89, 90, 209, 211, 299, 322
TX11458-1R/Y .....	73, 74, 189, 190, 191, 299, 322
TX11458-2R/Y .....	73, 189, 190, 191, 299, 322
TX11458-3R/Y .....	73, 74, 189, 191, 299, 322
TX12471-1R/Y .....	73, 189, 190, 191, 300, 322
TX12471-4R/Y .....	207, 211, 300, 322
TX12471-5W/Y .....	198, 200, 300, 322
TX12471-6W/Y .....	87, 207, 209, 210, 211, 300, 322
TX12471-7R/Y .....	73, 189, 191, 300, 323
TX12471-8R/Y .....	189, 191, 300, 323
TX12472-1R/Y .....	207, 209, 211, 301, 323
TX12472-2R .....	189, 190, 191, 301, 323
TX12472-4R .....	180, 181, 182

TX12474-1P/R.....	102, 229, 230, 231, 301, 323
TX12475-1P/P .....	210, 211, 301, 323
TX12479-13W .....	48, 154, 156, 157, 302, 323
TX12479-16W .....	48, 156, 157, 302, 323
TX12479-1W .....	48, 50, 52, 154, 156, 157, 302, 323
TX12483-4W .....	48, 154, 155, 157, 302, 323
TX12483-5W .....	48, 154, 155, 157, 302, 323
TX12483-6W .....	48, 154, 156, 157, 302, 323
TX12483-8W .....	48, 154, 155, 157, 303, 323
TX12484-1W ZC.....	48, 155, 157, 303, 323
TX12484-2W ZC.....	48, 154, 155, 157, 303, 323
TX12484-3W ZC.....	48, 154, 155, 156, 157, 303, 323
TX12484-4W ZC.....	48, 154, 156, 157, 303, 323
TX12486-1W .....	48, 154, 155, 157, 303, 323
TX12492-1R.....	66, 180, 182, 304, 323
TX12494-1R/Y .....	87, 207, 209, 211, 304, 323
TX13512-1Ru.....	178, 179, 304, 323
TX13524-1R.....	187, 188, 304, 323
TX13524-2R.....	187, 188, 304, 323
TX13528-5R/Y .....	196, 197, 305, 323
TX13531-1W/Y .....	205, 206, 305, 323
TX13539-2W/Y .....	205, 206, 305, 323
TX13539-4R/Y .....	219, 220, 305, 323
TX13541-2P.....	227, 228, 305, 323
TX13544-2R.....	227, 228, 305, 323
TX13544-4R/R .....	227, 228, 306, 323
TX13558-4P.....	227, 228, 306, 323
TX13558-5P.....	187, 188, 306, 323
TX13561-1Pinto/Y .....	205, 206, 306, 323
TX13563-1W .....	169, 170, 306, 323
TX13563-3W .....	169, 170, 306, 323
TX13563-5W .....	169, 170, 307, 323
TX13565-1W .....	169, 170, 307, 323
TX13565-2W .....	219, 220, 307, 323

TX13566-1W .....	169, 170, 307, 323
TX13566-5W .....	169, 170, 307, 324
TX13572-3W .....	169, 170, 307, 324
TX13574-1W .....	169, 170, 308, 324
TX13574-3W .....	169, 170, 308, 324
TX13574-4W .....	169, 170, 308, 324
TX13578-10W .....	169, 170, 308, 324
TX13578-4W .....	169, 170, 308, 324
TX13578-6W .....	169, 170, 308, 324
TX13579-1R .....	187, 188, 309, 324
TX13580-1W .....	169, 170, 309, 324
TX13580-2W .....	169, 170, 309, 324
TX13582-3W .....	219, 220, 309, 324
TX13582-4W .....	219, 220, 309, 324
TX13582-5W .....	219, 220, 309, 324
TX13585-1W .....	169, 170, 310, 324
TXA549-1Ru .....	58, 59, 60, 61, 171, 173, 297, 304, 310, 322, 323, 324
TXWL-1 .....	4, 41, 43, 147, 149
Waneta .....	48, 50, 51, 52, 119, 120, 121, 154, 155, 156, 157, 297, 308, 309, 310, 316, 322, 324
WTX10646-2W .....	48, 50, 156, 157, 311, 324
WTX10666-8W .....	48, 154, 155, 157, 311, 324
WTX13058-1W .....	169, 170, 311, 324
WTX13068-1W .....	169, 170, 311, 324
WTX13073-1W/Y .....	169, 170, 312, 324
Yukon Gold .....	viii, 41, 43, 80, 82, 147, 149, 198, 199, 200, 312, 316



Cover by Angel Chappell  
Edited by Jeannie Miller