



# **Texas Potato Breeding Report 2010**

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

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College Station and Lubbock**



We dedicate this report to Frank Barrett who passed away December 31, 2010. Frank was a longtime grower/cooperator with the Texas Potato Breeding and Variety Development Program.

Frank was born Oct. 29, 1922, in Wendell, Idaho, to Fred and May Roberts Barrett. He grew up in Wendell, working on his father's potato farm and graduating from high school in 1940.

After the 1940 potato harvest, he moved with his parents, four brothers and three sisters to Hereford to help establish the family's potato growing and shipping business in the Texas Panhandle.

He remained active in the potato business until his last days, with 2010 constituting the family's 101st consecutive year to produce a potato crop. In 2004, he was named to the Texas Fruit and Vegetable Growers Hall of Fame. He will be missed.

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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 = cross made in Aberdeen, Idaho, tubers 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, tubers 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

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

MWTX = cross made by USDA/ARS Madison, Wisconsin and selected in Texas

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 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, 1,993,408 seedlings have been grown for selection in Texas, from which 8,946 original selections have been made. Twelve improved varieties have been developed/co-developed and/or released from this program. Most of the russet potatoes grown in Texas in 2010 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. In 2009, the average summer crop yield in Texas was reported to be 460 Cwt/A, the highest in the nation among 11 states with summer crop production. In addition, the farm gate value of the crop has grown from less than \$20 million to more than \$85 million, with an annual economic impact to the state in 2009 estimated to exceed \$212 million. Of the new varieties developed/released in the US in the last 10 years, those developed by the Texas program collectively ranked third in total seed acreage entered into certification in 2009.

## 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 2010 were conducted at College Station, with field planting at Weslaco, Springlake, Halfway, and Dalhart. Insecticides were applied in Springlake and Dalhart.

Prior to 2010 some 441 selections or varieties had been evaluated for ZC expression under field conditions. The following 18 selections showed little or no ZC expression: AOTX02060-1Ru, AOTX96084-1Ru, ATTX98500-3P-W/Y, ATX97147-4Ru, ATX99194-3Ru, BTX1544-2W/Y, BTX1749-1W/Y, COTX94218-1R, NDTX049265-2WRSP/Y, NDTX059759-3Pinto/Y, NDTX059828-2W, NDTX731-1R, NY138, TX03196-1W, TX05249-10W, TX05249-11W, TX05249-3W and TX1674-1W/Y.

In Weslaco, the above selections were included in a caged trial with hot psyllids and the same entries were also planted in an adjacent non-caged trial and evaluated for ZC expression under field pressure. Psyllid differential preference was found among the selections. Some of these selections are under further evaluation.

Some 193 varieties/advanced selections were planted at Springlake. However, of these, only 60 were evaluated for ZC expression at Springlake, both as fresh cut tubers and as chips because the other entries had been evaluated in previous years. At Dalhart, nearly 452 varieties/advanced selections were grown. A total of 108 varieties/advanced selections, were chipped and evaluated for ZC and other chip quality characteristics.

A major initiative in 2010 involved our participation in the newly initiated National Breeders' Chip Trial funded by the National Potato Promotion Board. The objective was to identify replacement chip varieties for Atlantic and Snowden. The trial was conducted in nine sites with four locations in Southern states and in five Northern states. Some 243 entries representing 11 breeding programs throughout the US were included. All entries in the 2010 trial were evaluated for chip quality including ZC expression.

ZC collaborators in 2010 included Dr. Ron French, Dr. Charlie Rush, Dr. Elizabeth Pierson, Dr. T.X. Liu, Dr. Christian Nansen, Dr. John Jifon, Dr. John Trumble, and Dr. Joe Munyeneza.

## Introduction

### Program Summary

The Texas Potato Breeding and Variety Development Program used two locations in the 2010 growing season (Table 1). The first planting was near Springlake on 30 March to 1 April and harvested on 2, 5, 24, and 26 August. This location included twenty three replicated trials, National Breeders' Chip Trial, and first generation seedlings for selection. The second planting was near Dalhart on 6 May and harvested on 6, 20 September 4, 18, and 20 October. Fifteen replicated trials, a seed increase nursery, National Breeders' Chip Trial and first year seedlings for selection were planted at this site. The Texas program entered 13 selections (ATTX88654-2P/Y, ATTX98510-1R/Y, ATTX01180-1R/Y, BTX2103-1R/Y, COTX01403-4R/Y, TX1674-1W/Y, AOTX96084-1Ru, AOTX98152-3Ru, ATX9332-12Ru, AOTX91861-4R, ATTX98453-11BR, NDTX5003-2R, and NDTX5438-11R) in the Southwestern Regional Trials conducted in Texas, Colorado, and two sites in California. The Texas Program also had three entries in the Western Regional Russet Trial (AOTX95265-1Ru, AOTX96216-2Ru, and AOTX96265-2Ru) and three entries in the Western Regional Red/Specialty Trial (BTX2332-1R, COTX94216-1R, and COTX94218-1R). These trials were conducted at multiple locations in six western states. Plant Variety Protection (PVP) was granted for Stampede Russet, and Rio Rojo.

A major focus of the program in 2010 was on Zebra Chip Research, with emphasis on varietal resistance/susceptibility. 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 15 July at Springlake, and was well attended by growers and Zebra Chip collaborators.

### Seedling program

In 2010, 84,644 first year seedlings, resulting from 657 different parental combination or families (crosses), were grown for selection on the Barrett Farm (two planting dates) (16,860) near Springlake and on the CSS Farm (67,784) near Dalhart. Five hundred seventy three original selections were made from this material (Figure 1).

The 2010 first year seedling tubers from Texas (15,452) were grown during the fall of 2009 at College Station, from true seed crosses made in Lubbock and Aberdeen, Idaho. The remaining seedling tubers were provided by Rich Novy, Idaho (6,860), Solomon Yilma, Oregon (30,696), David Holm, Colorado (20,020), and Susie Thompson, North Dakota (11,616).

Texas also sent second and third-size seedling tubers to Idaho (4,196), Colorado (9,884), and North Dakota (4,194) for first year selections.

Table 1. Trial locations, name of trial, number of entries, and number of plots evaluated in 2010.

Springlake			Dalhart		
Trial	# of Entries	# of Plots	Trial	# of Entries	# of Plots
Field day Russets (not reported)	121	121	Western Regional Chip	7	28
Field day Red/Specialty(not reported)	72	72	Southwestern Regional Chip	6	24
Western Regional Cooperative Chip	7	28	Texas Advanced Chip Selection/Ftito Lay Variety	9	36
Western Regional Cooperative Russet	21	84	Texas Advanced Chip Selection	28	112
Western Regional Cooperative Red	7	28	2009 Chip Selection	8	8
Western Regional Cooperative Red/Yellow Flesh	3	12	Texas Advanced Russet Selection	40	160
Western Regional Cooperative White/Yellow Flesh	5	20	2009 Russet Selection	14	14
Southwestern Regional Cooperative Chip	6	24	Texas Advanced Red Selection	25	100
Southwestern Regional Cooperative Russet	4	16	2009 Red Selection	5	5
Southwestern Regional Cooperative Red	6	24	Texas Advanced Red Skin Yellow Flesh Selection	27	108
Southwestern Regional Cooperative Red/Yellow Flesh	9	36	Texas Advanced White Skin Yellow Flesh Selection	24	96
Southwestern Regional Cooperative White/Yellow Flesh	2	8	2009 White Skin Yellow Flesh Selection	4	4
Southwestern Regional Cooperative Purple/Purple Flesh	3	12	Texas Advanced Small Potato Selection	11	44
Texas Advanced Chip Selection/Ftito Lay Variety	9	36	2009 Small Potato Selection	4	4
Texas Advanced Chip Selection	27	108	Texas Advanced Fingerling Selection	5	20
Texas Advanced Russet Selection (Colorado Source)	6	24	2009 Fingerling Selection	4	4
Texas Advanced Russet Selection	19	76	<b>Total</b>	<b>221</b>	<b>767</b>
Texas Advanced Red Selection (Colorado Source)	8	32	<b>Total Entries and Plots</b>	<b>886</b>	<b>2050</b>
Texas Advanced Red Selection	12	48			
Texas Advanced Red Skin Yellow Flesh Selection(Colorado Source)	2	8			
Texas Advanced Red Skin Yellow Flesh Selection	16	64			
Texas Advanced White Skin Yellow Flesh Selection(Colorado Source)	6	24			
Texas Advanced White Skin Yellow Flesh Selection	16	64			
Texas Advanced Small Potato Selection	8	32			
Texas Advanced Fingerling Selection	4	16			
National Breeders Chip	266	266			
<b>Total</b>	<b>665</b>	<b>1283</b>			

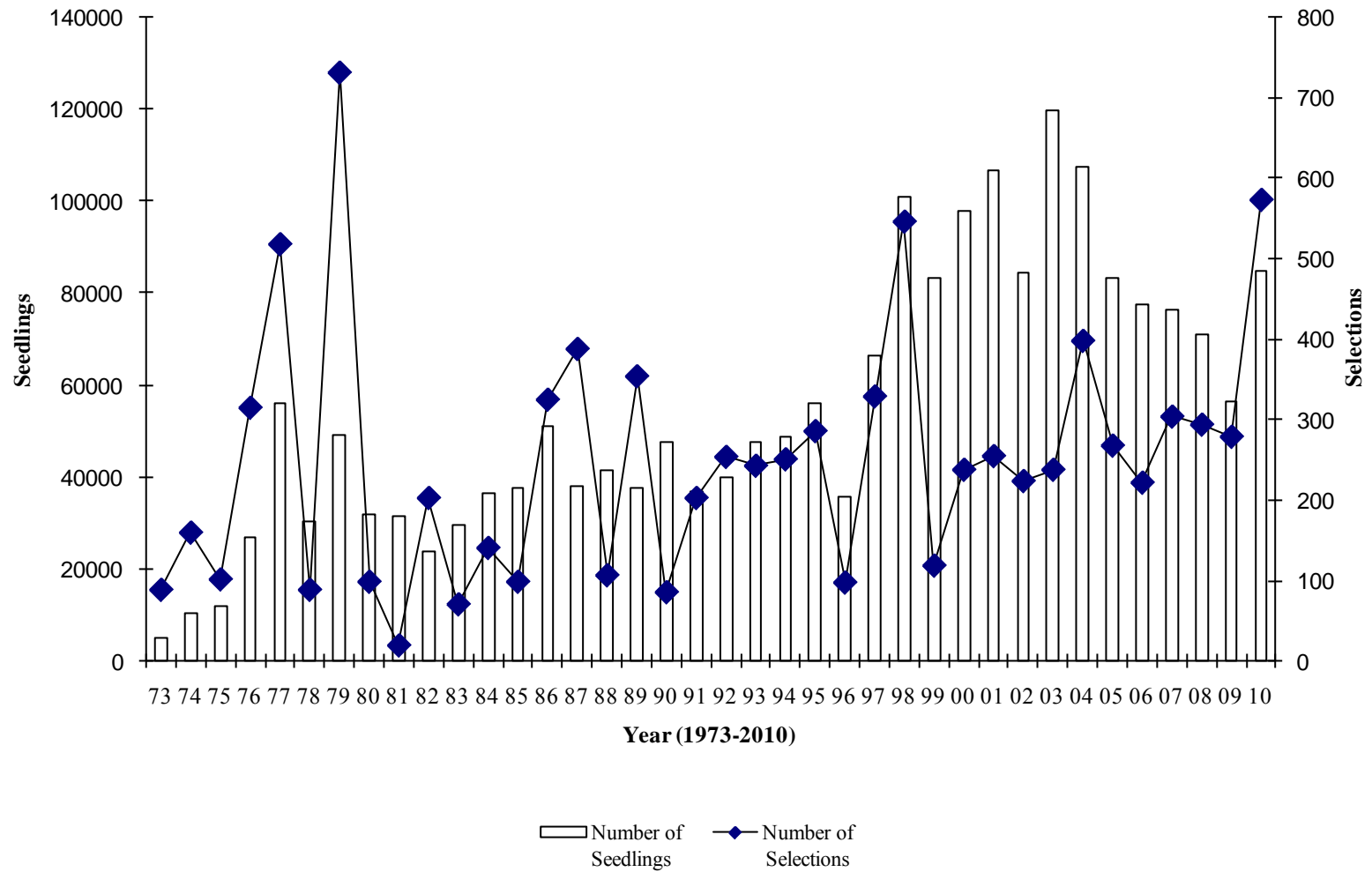


Figure. 1. Number of first year seedling tubers grown for original selection and number of selections made since the inception of the Texas Potato Variety Development Program.



### 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 472 advanced selections/varieties were tested in replicated and non-replicated trials near Springlake, 698 entries were evaluated near Dalhart. A total of 2,050 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, 27,693 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.

Results from the various trials are presented in chronological sequence in which they were planted/harvested, Springlake to Dalhart. 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.

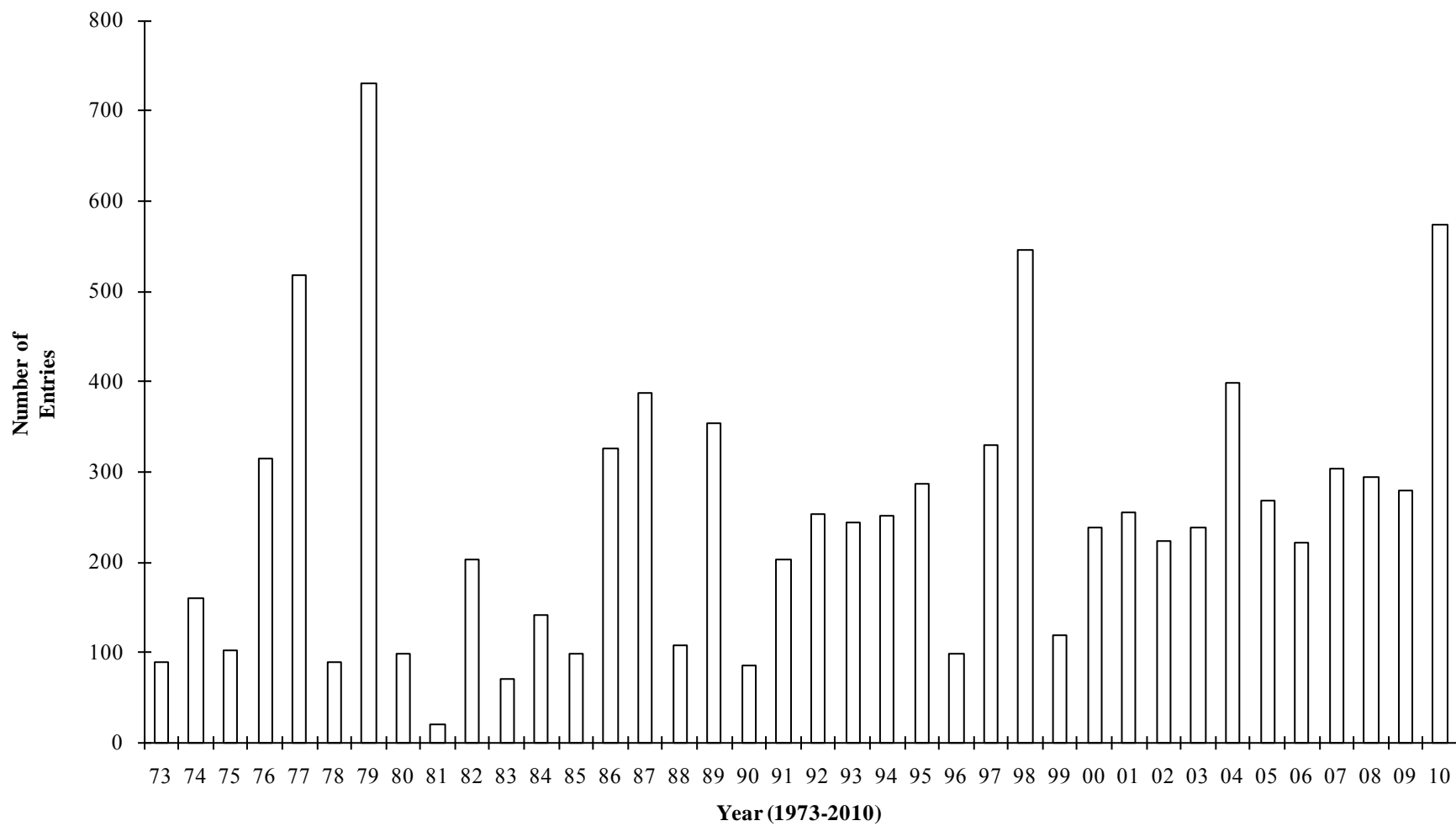


Figure 2. Number of varieties and advanced selections tested for their adaptability to Texas environmental conditions each year since the inception of the Texas Potato Variety Development Program in 1973.

## Springlake Trials, 2010

### Summary of growing conditions:

The trials were planted near Springlake, Texas from 31 March and 1 April and harvested on 2, 5, 24, and 26 August. Standard cultural practices for the area were used (Table 2). These trials were subjected to above average precipitation in the third week of April, third week of May, and the first week of July (Figure 3). Higher than normal temperatures were recorded for June. The plots received a moderately severe hail in May. Psyllid population was high. These factors contributed to very low yield for all trials.

### Trials conducted:

- Field day (not reported)
- Western Regional Chip
- Western Regional Russet
- Western Regional Red Skin White Flesh
- Western Regional Red Skin Yellow Flesh
- Western Regional White Skin Yellow Flesh
- Southwestern Regional Chip
- Southwestern Regional Russet
- Southwestern Regional Red Skin White Flesh
- Southwestern Regional Red Skin Yellow Flesh
- Southwestern Regional White Skin Yellow Flesh
- Southwestern Regional Purple Flesh
- Texas Advanced Chip Selection (Co. source)
- Texas Advanced Chip Selection
- Texas Advanced Russet Selection (Co. source)
- Texas Advanced Russet (Dalhart source)
- Texas Advanced Red (Co. source)
- Texas Advanced Red (Dalhart source)
- Texas Advanced Red Skin Yellow Flesh (Co. source)
- Texas Advanced Red Skin Yellow Flesh (Dalhart source)
- Texas Advanced White Skin Yellow Flesh (Co. source)

- Texas Advanced White Skin Yellow Flesh (Dalhart source)
- Texas Advanced Small Potato
- Texas Advanced Fingerling
- National Breeders' Chip (not reported)

Table 2. Environmental and cultural inputs for the 2010 Springlake Trials.		
Location:		
Springlake, Texas		
Soil Type		
Tivoli Fine Sand		
Seed Source		
New York, Minnesota, North Dakota, Beltsville, Michigan, Maine, New York, Wisconsin, Colorado, Oregon, Texas, and Idaho		
Date:		DAP
Planted	March 31, 2010	
Vines Killed (Red, Red/Yellow)	July 23, 2010	113
Vines Killed (Chip)	July 28, 2010	118
Vines Killed (White/Yellow)	August 3, 2010	123
Vines Killed (Russet)	August 16, 2010	136
Harvested (Red, Red/Yellow, White/Yellow)	August 2, 2010	122
Harvested (Chip)	August 24, 2010	144
Harvested (Russet)	August 26, 2010	146
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:		
Red 117-33-33-24# per acre		
Russet, Chip, White/Yellow 201-33-33-24 # per acre		
Irrigation:		
Center Pivot		
Seed Treatment Applied:		
Cruiser Maxx		
Insecticide:		
Movento, Rimon, Admire Pro, Fulfill, Agrimek, Tracer, Venom, Abacus		
Fungicides Applied:		
Bravo, Dithane, Quadris, Super Tin		
Herbicides Applied:		
Sencor, Roundup, Treflan		
Environmental Factors:		
<p>The plots received above average precipitation in the third week of April, third week of May, and the first week of July. Higher than normal temperatures were recorded for June. The plots received a moderately severe hail in May. Psyllid population was high. All of these factors resulted in very low yield for all trials.</p>		

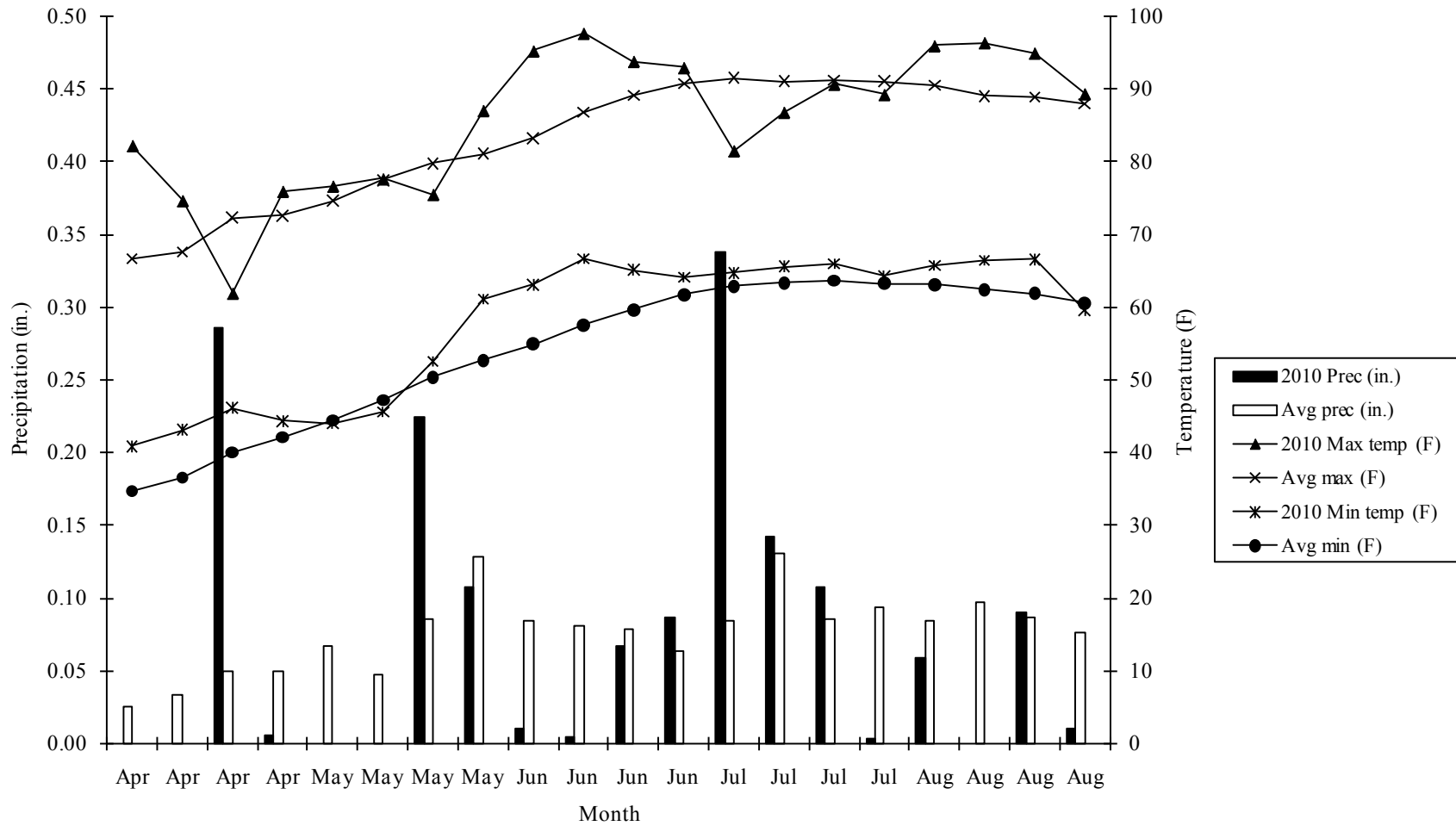


Figure 3. Weekly minimum/maximum temperatures and precipitation for the 2010 growing season near Springlake, Texas compared to the average minimum/maximum temperatures and precipitation (1949-2010).

## WESTERN REGIONAL CHIP TRIAL

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 2010 chip trial consisted of 7 entries, including the two check varieties Atlantic and Chipeta.

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

- The outstanding entry for this trial, based on general rating, best of trial designation for appearance and chip quality was CO00188-4W (Tables 1a, 1e and 1f).
- CO00188-4W had the highest total and marketable yields (Table 1a)
- CO00188-4W had the highest yield of 1-3 inch tubers. CO00197-3W had the highest yield of culls/No.2 tubers (Table 1a).
- CO00188-4W had the highest percent of 1-3 inch tubers (Table 1b).
- CO00197-3W had the highest percentage yield of cull/No. 2 tubers (Table 1b).
- A00188-3C, Chipeta, and A01143-3C were the latest maturing entries. CO00188-4W was the earliest maturing entry (Table 1c).
- A00188-3C had 75% vascular discoloration (Table 1d).
- CO00188-4W, A00188-3C, and CO00270-7W had over 8% Zebra Chip while O00270-7W and A01143-3C did not exhibit Zebra Chip. (Table 1f).

### Comments on entries:

- |              |              |  |
|--------------|--------------|--|
| • CO00188-4W | Round White  | nice shape, nice flesh, BOT+, BOT for flesh, heavy set, small<br><sup>1</sup> CR=1 |
| • Atlantic   | Round Buff   | nice shape, yield+, sticky stolon, poor internals, bad rep CR=1                    |
| • A00188-3C  | Round White  | small, sticky stolon, heat sprouts, drop+, poor internals, rough,<br>small CR=1    |
| • CO00197-3W | Oblong White | heavy set, poor shape, sticky stolon, pear shape, drop++ CR=1+                     |
| • CO00270-7W | Round White  | yield-, drop+, small CR=2  |
| • Chipeta    | Round White  | yield-, drop, sticky stolon, late, drop CR=3                                       |
| • A01143-3C  | Round White  | small, late, drop CR=2   |



<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 CO00188-4W.

**WESTERN REGIONAL RUSSET TRIAL**

The 2010 russet trial consisted of 21 entries, including the three check varieties Ranger Russet, Russet Burbank, and Russet Norkotah.

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

- The outstanding entries for this trial, based on general rating and a best of trial designation was A0008-1TE. CO99100-1RU also received a high general rating (Tables 2a and 2e).
- A0008-1TE and CO99100-1RU had the highest total and marketable yields (Table 2a)
- A97066-42LB and AC99375-1RU had the highest yield of less than 4 oz. tubers. Russet Burbank had the highest yield of culls/No.2 tubers (Table 2a).
- A0008-1TE and CO99100-1RU had the highest and second highest percent of marketable yield respectively (Table 2b).
- A97066-42LB and AC99375-1RU had the highest and second highest percentage yield of less than 4 oz. tubers. Russet Burbank had the highest percentage yield of cull/No. 2 tubers (Table 2b).
- The highest specific gravity was recorded for A97066-42LB (Table 2b).
- A98066-42LB and AOTX96265-2Ru were the latest maturing clones. A0008-1TE, Russet Norkotah, and CO99100-1RU were the earliest maturing entries (Table 2c).
- A01010-1 and PA99N2-1 had 18% vascular discoloration (Table 2d).
- AO00057-2 and A97066-42LB did not exhibit Zebra Chip. AC99375-1RU and AOTX96216-2Ru had the highest (27% and 20%) Zebra Chip (Table 2f).

Comments on entries:

- A0008-1TE            Long Russet    parent, light net, BOT, some raised eyes

- CO99100-1RU Long Russet parent for fast bulk, very nice, feathering, 10% rot
- Russet Burbank Long Russet rough
- Ranger Russet Long Russet poor shape, deep eyes, sticky stolon, drop, skinny, rough
- AOTX95265-1Ru Long Russet blocky, small, 20% bruise, nice
- Russet Norkotah Long Russet small, 12% rot
- AO96305-3 Long Russet long skinny, feathering, light net
- A98345-1 Long Russet deep eyes, poor russet skin, sticky stolon, light net, drop, ugly
- CO99053-4RU Long Russet heat sprouts, poor shape, light net
- AO00057-2 Long Russet 10% bruise, light net
- A00324-1 Long Russet rough pointed, Rhizoctonia, sticky stolon
- A97066-42LB Oblong Russet blocky, raised eyes, light net, small
- AOTX96216-2Ru Oblong Russet curved, blocky, nice, rough, bad rep
- PA00N14-2 Oblong Russet ugly net, drop+, sticky stolon, blocky, nice shape, poor skin type
- CO99053-3RU Long Russet pointed, drop, small, poor shape, skinny, sticky stolon
- AOTX96265-2Ru Long Russet sticky stolon, too long
- A01010-1 Long Russet skinny, 10% bruise, drop
- CO98067-7RU Oblong Russet small, blocky, 10% bruise, sticky stolon
- AC99375-1RU Oblong Russet rough, very small, drop++
- PA99N82-4 Oblong Russet small, too round
- PA99N2-1 Oblong Russet small, round to oblong

Summary:

Overall, the outstanding entry based on general rating, marketable yield, and best of trial designation was A0008-1TE.

**WESTERN REGIONAL RED SKIN WHITE FLESH**

This trial consisted of seven entries, including the check varieties Red LaSoda and Dark Red Norland

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

- CO99076-6R , BTX2332-1R, and COTX94218-1R had the highest general ratings and best of trial designations (Table 3a and Table 3e).
- Red LaSoda and Dark Red Norland produced the highest total, marketable, and yield of less than 4 oz. tubers (Table 3a).
- Red LaSoda and Dark Red Norland had the highest percentage of marketable yield, while COTX94218-1R and CO99256-2R had 100 %of less than 4 oz. tubers. (Table 3b).
- CO99075-6R had the highest average number of tubers per plant. COTX94218-1R and CO99256-2R were the latest maturing, while Red LaSoda was the earliest (Table 3c).
- Red LaSoda and Dark Red Norland had the deepest eyes (Table 3d).
- Red LaSoda had higher percentages of vascular discoloration (Table 3d).
- CO99256-2R had over 25% Zebra Chip, while Red LaSoda, BTX2332-1R, COTX94216-1R, and COTX94218-1R did not have any Zebra Chip defect (Table 3f).

Comments on entries:

- |                    |            |  |
|--------------------|------------|--|
| • Dark Red Norland | Oblong Red | light skin, yield+, poor skin finish, escaped the small potato problem, deep eyes, 7.5% heat sprouts |
| • Red LaSoda       | Oblong Red | light skin, yield+, large tubers, deep eyes  |
| • CO99076-6R       | Round Red  | nice shape and color, BOT+, very nice, nice skin, nice flesh, stem attachment                        |
| • BTX2332-1R       | Round Red  | nice shape and color, BOT, silver scurf, small, nice   |
| • COTX94216-1R     | Round Red  | heavy set, drop, stem attachment, poor shape, silver scurf, poor skin finish+++ , nice white flesh   |
| • COTX94218-1R     | Round Red  | yield-, very white flesh, small  |
| • CO99256-2R       | Round Red  | yield-, small+   |

Summary:

CO99076-6R and BTX2332-1R were the outstanding entries based on general ratings and best of trial designations.

**WESTERN REGIONAL RED SKIN YELLOW FLESH**

This trial consisted of three entries.

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

- A99326-1PY received a high general rating and a best of trial designation. POR03PG80-2 also received a high general rating (Table 4a and Table 4f).
- POR03PG80-2 produced the highest total yield and marketable yield (Table 4a).
- A99326-1PY and POR03PG80-2 had the highest yield of less than 4 oz. tubers (Table 4a).
- POR03PG80-2 and A99326-1PY had the highest percentage of marketable yield. A99331-2RY had the highest percentage of less than 4 oz. tubers (Table 4b).
- A99331-2RY had the highest average number of tubers per plant (Table 4c).
- POR03PG80-2 and A99331-2RY were latest in maturity (Table 4c).
- A99331-2RY and A99326-1PY had the darkest yellow flesh color (Table 4d).
- POR03PG80-2 had a high percentage of vascular discoloration (Table 4d)
- POR03PG80-2 showed no Zebra Chip defect, while all the other entries had over 7% ZC (Table 4f).

Comments on entries:

- POR03PG80-2      Oblong Purple    alligator skin, poor skin finish, some rough
- A99326-1PY      Oblong Purple    lenticels, poor skin finish, nice flesh, BOT of Purple skin, sticky stem
- A99331-2RY      Round Red        very small, heat sprouts, red splash, drop

Summary:

A99326-1PY was the best entry based on receiving a high general rating and a best of trial designation.

**WESTERN REGIONAL WHITE SKIN YELLOW FLESH**

This trial consisted of five entries

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

- Yukon Gold had the highest general rating and a best of trial designation (Table 5a and 5e).
- Yukon Gold produced the highest total and marketable yield (Table 5a).

- ATC00293-1W/Y had the highest yield of less than 4 oz tubers (Table 5a).
- Yukon Gold had the highest percentage of marketable yield, while A00286-3Y had the highest percentage of less than 4 oz. tubers (Table 5b).
- CO00412-5W/Y had the highest specific gravity (Table 5b).
- Yukon Gold was earlier in maturity than all of the other entries (Table 5c).
- A00286-3Y had the highest number of tubers per plant (Table 5c).
- ATC00293-1W/Y had the darkest flesh color (Table 5d).
- ATC00293-1W/Y and CO00412-5W/Y had the highest percentage of Zebra Chip defect (Table 5f).

Comments on entries:

- Yukon Gold            Oblong White    very nice, BOT
- ATC00293 -1W/Y    Oblong White    nice shape and skin, 10% tuber moth, 17% heat sprouts, chain tubers++, drop, purple eyes, shape problems, lenticels, small, nice flesh
- A00286-3Y           Oblong White    red eyes, small, late, 60% heat sprouts, chain tubers
- A99433-5Y           Oblong White    late, small, yield-, stolon attachment
- CO00412-5W/Y      Oblong White    very late, yield-, small++, nice flesh

Summary:

Yukon Gold was the outstanding entry.

**SOUTHWESTERN REGIONAL COOPERATIVE TRIALS**

This is the thirteenth year for the Southwestern Regional Cooperative Trials, which in 2010 included Russet, Red, Chip (also conducted at Dalhart), and Specialty Trials. 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.

**SOUTHWESTERN REGIONAL COOPERATIVE CHIP TRIAL**

This trial consisted of 6 entries, including the check varieties Atlantic and Chipeta.

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

- The outstanding entry based on general rating and best of trial designation was CO02321-4W (Tables 6a and Table 6e).
- CO02321-4W had the highest total and marketable yield (Table 6a).
- CO02033-1W had the highest yield of cull/No. 2 tubers (Table 6a).
- CO02321-4W and Atlantic had the highest percentage marketable yield (Table 6b).
- CO02033-1W had the highest percentage of culls/No.2 tubers (Table 6b).
- CO02321-4W had the highest specific gravity (Table 6b).
- All of the entries were late in maturity (Table 6c).
- CO02033-1W and AC01151-5W had the highest percentage of vascular discoloration (Table 6d).
- AC01151-5W showed no Zebra Chip, while all the other entries had over 3% Zebra Chip (Table 6f).

Comments on entries:

- |              |              |  |
|--------------|--------------|--|
| • CO02321-4W | Round White  | small, sticky stolon, BOT, nice+ <sup>1</sup> CR=1                           |
| • Atlantic   | Round Buff   | nice shape, yield+, sticky stolon, poor internals, bad rep CR=1              |
| • CO02033-1W | Oblong White | poor shape, rough, heat sprouts, drop+ CR=3                                  |
| • CO02024-9W | Round White  | heavy set, small+, pear shape, ZC++, drop+                                   |
| • AC01151-5W | Round White  | sticky stolon+, drop, small++, nice shape, chain tubers, poor internals CR=1 |
| • Chipeta    | Round White  | yield-, sticky stolon, late, drop+ CR=3                                      |

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

Summary:

CO02321-4W was the outstanding entry.

**SOUTHWESTERN REGIONAL COOPERATIVE RUSSET TRIAL**

This trial consisted of 4 entries, including the check variety Russet Norkotah.

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

- The outstanding entry based on general rating and best of trial designation was AOTX98152-3Ru (Table 7a and Table 7e).
- AOTX98152-3Ru had the highest total and marketable yield (Table 7a).
- AOTX98152-3Ru had the highest yield of 10-18 oz. tubers. AOTX98152-3Ru and ATX9332-12Ru had the highest yield of under 4 oz. tubers. AOTX98152-3Ru had the highest yield of cull/No. 2 tubers (Table 7a).
- AOTX96265-2Ru had the highest percent marketable yield (Table 7b).
- ATX9332-1Ru had the highest percentage of less than 4 oz. tubers. AOTX96084-1Ru had the highest percentage of culls/No.2 tubers (Table 7b).
- AOTX98152-3Ru and ATX9332-12Ru had the highest specific gravity (Table 7b).
- ATX9332-1Ru was the latest maturing entry (Table 7c).
- AOTX98152-3Ru had 15% vascular discoloration (Table 7d).
- Russet Norkotah and AOTX96084-1Ru had 8% and 9% Zebra Chip respectively (Table 7f).

Comments on entries:

- AOTX98152-3Ru Oblong Russet BOT, blocky, nice
- Russet Norkotah Long Russet small, 12% rot
- AOTX96084-1Ru Long Russet blocky, small
- ATX9332-12Ru Oblong Russet small, ugly net, drop, blocky

Summary:

AOTX98152-3Ru was the outstanding entry.

**SOUTHWESTERN REGIONAL COOPERATIVE RED TRIAL**

The Southwestern Regional Cooperative Red Trial consisted of 6 entries, including the check varieties Red LaSoda and Dark Red Norland.

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



- The entries with the highest general rating were Red LaSoda, AOTX91861-4R, and NDTX5438-11R (Tables 4a).
- Dark Red Norland had the highest yield of total, marketable and less than 4 oz. tubers (Table 8a).
- Dark Red Norland had the highest percentage of marketable yield, while NDTX5003-2R had the highest percentage of less than 4 oz. tubers (Table 8b).
- ATTX98453-11BR had the highest specific gravity (Table 8b).
- ATTX98453-11BR was the latest in maturity, while Red LaSoda was the earliest in maturity (Table 8c).
- Red LaSoda had 30% vascular discoloration (Table 8d).
- NDTX5438-11R, ATTX98453-11BR, and NDTX5003-2R showed no Zebra Chip, while Dark Red Norland, Red LaSoda, and AOTX961861-4R showed over 3% Zebra Chip (Table 8f).

Comments on entries:

- |                    |            |  |
|--------------------|------------|--|
| • Dark Red Norland | Oblong Red | light skin, yield+, poor skin finish, escape small potato problem, deep eyes, 30% heat sprouts |
| • Red LaSoda       | Oblong Red | light skin, yield+, large tubers, deep eyes  |
| • AOTX91861-4R     | Round Red  | smooth, nice, small, poor skin finish, stem attachment   |
| • NDTX5438-11R     | Oblong Red | yield+, nice+, skin color, stem attachment, small  |
| • ATTX98453-11BR   | Round Red  | nice shape, yield-, stem attachment  |
| • NDTX5003-2R      | Round Red  | nice shape, yield-, small+, ugly eyes, poor skin finish, nice flesh                            |

Summary:

AOTX91861-4R was the outstanding entry.

**SOUTHWESTERN REGIONAL COOPERATIVE RED SKIN YELLOW FLESH TRIAL**

The Southwestern Regional Cooperative Specialty Trial consisted of 6 entries.

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

- COTX01403-4R/Y, ATTX98510-1R/Y, and ATTX01180-1R/Y were the outstanding entries based on general rating and best of trial designations (Table 9a and 9e).
- COTX01403-4R/Y had the highest total and marketable yield. ATTX98510-1R/Y had the highest yield of less than 4 oz. tubers. COTX01403-4R/Y had the highest yield of culls/No. 2 tubers (Table 9a).

- COTX01403-4R/Y had the highest percentage of marketable yield. CO01399-10P/Y had the highest percentage of less than 4 oz. tubers and culls/No.2 tubers (Table 9b).
- COTX01403-4R/Y was the earliest in maturity (Table 9c).
- COTX01403-4R/Y and ATTX01180-1R/Y had the darkest yellow flesh color (Table 9d).
- CO01399-10P/Y had 25% vascular discoloration (Table 9d).
- ATTX01180-1R/Y, ATTX88654-2P/Y, and BTX2103-1R/Y had no Zebra Chip Defect. COTX01403-4R/Y and ATTX98510-1R/Y had over 5% Zebra Chip (Table 9f)

Comments on entries:

- COTX01403-4R/Y Oblong Red blocky, large tubers, nice flesh, BOT, 10% heat sprouts
- ATTX98510-1R/Y Oblong Red nice flesh, BOT
- ATTX01180-1R/Y Oblong Red sticky stolon, dark flesh and skin, feathering, BOT, ZC??
- ATTX88654-2P/Y Round Purple poor shape+, drop++, stem attachment, deep indentation at stem
- BTX2103-1R/Y Round Red silver scurf, small, drop, B size, sticky stolon, 10% heat sprouts
- CO01399-10P/Y Oblong Purple drop+, small, heat sprouts, stolon attachment

Summary:

COTX01403-4R/Y and ATTX98510-1R/Y were the outstanding entries based on yield, general rating, and best of trial designations.

## **SOUTHWESTERN REGIONAL COOPERATIVE PURPLE FLESH TRIAL**

The Southwestern Regional Cooperative Specialty Trial consisted of 3 entries, including the check variety Purple Majesty.

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

- TC02072-3P/P received the highest general rating, while Purple Majesty received a best of trial designation (Table 10a and 10e).
- Purple Majesty had the highest total, marketable, yield of less than 4 oz. tubers, and culls/No. 2 tubers (Table 10a).
- All of the entries had at least 70% of less than 4 oz. tubers and 16% culls/No.2 tubers (Table 10b).
- TC02072-3P/P was the latest in maturity, while Purple Majesty was the earliest in maturity (Table 10c).
- COTX05082-2P/P had the darkest purple flesh color (Table 10d).

### Comments on entries:

- Purple Majesty      Oblong Purple    nice, BOT, rough+, white in flesh, rough, silver scurf
- TC02072-3P/P      Long Purple      shape-, fingerling?, rough, very dark solid flesh, nice, smooth, small
- COTX05082-2P/P    Oblong Purple    nice shape, yield-, rough, very dark flesh, BOT for flesh color

### Summary:

TC02072-3P/P may be a good fingerling variety.

## **SOUTHWESTERN REGIONAL COOPERATIVE WHITE SKIN YELLOW FLESH TRIAL**

The Southwestern Regional Cooperative White Skin Yellow Flesh Trial consisted of 2 entries, including the check variety Yukon Gold.

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

- Yukon Gold received a high general rating and a best of trial designation, while TX1674-1W/Y also received a high general rating (Table 11a and 11e).

- TX1674-1W/Y had the highest total yield. Yukon Gold had the highest marketable yield. TX1674-1W/Y had the highest yield of less than 4 oz. tubers. (Table 11a).
- Yukon Gold had the highest percentage of marketable yield. TX1674-1W/Y had the highest percentage of less than 4 oz. tubers (Table 11b).
- TX1674-1W/Y was later in maturity than Yukon Gold (Table 11c).
- TX1674-1W/Y had the darker yellow flesh color than Yukon Gold received (Table 11d).
- Yukon Gold had 2% Zebra Chip (Table 11f)

Comments on entries:

- TX1674-1W/Y      Oblong White   nice shape and skin, small
- Yukon Gold           Oblong White   very nice, BOT

Summary:

TX1674-1W/Y did not perform better than Yukon Gold

**TEXAS ADVANCED CHIP SELECTION AND COMMERCIAL VARIETY TRIAL**

The Texas advanced Chip Selection and Commercial Variety Trial consisted of 9 entries, including the check varieties Atlantic and Snowden.

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

- The outstanding entry for this trial, based on general rating, best of trial designation for appearance and chip quality was FL 2048. FL 1867 had the highest general rating and received a best of trial designation for appearance (Tables 12a, 12e and 12f).
- FL 1867 had the highest total, marketable, and yield of 1-3 inch tubers. FL 1833 had the highest yield of culls/No.2 tubers (Table 12a).
- FL 1867 and FL 2053 had the highest percent of 1-3 inch tubers (Table 12b).
- FL 1833 had the highest percentage yield of cull/No. 2 tubers (Table 12b).
- Chipeta, COTX90046-1W, Snowden, and FL 1833 were the latest maturing entries. FL 1867 was the earliest maturing entry (Table 12c).

- FL 1867 and FL 1833 had the lowest percent of vascular discoloration. All other entries had over 13% vascular discoloration (Table 12d).
- FL 1833, FL 2053, and FL 1922 did not exhibit Zebra Chip. All other entries had over 3% Zebra Chip (Table 12f).

Comments on entries:

- FL1867 Oblong White yield+, BOT++, large tuber, parent <sup>1</sup>CR=1
- FL2053 Oblong White poor shape++, nice flesh, drop+, rough, poor internals+ CR=1
- FL2048 Oblong White large tubers, nice internals, BOT-, some internal problems, nice flesh, too long CR=1
- Atlantic Round Buff nice shape, yield+, sticky stolon, poor internals, bad rep CR=1
- FL1833 Oblong White heavy set, small, Rhizoctonia, sticky stolon, rough, nice internals CR=2
- Snowden Round White nice, heat sprouts, sticky stolon, parent CR=3
- FL1922 Oblong White yield-, drop, nice flesh, poor shape CR=2
- COTX90046-1W Oblong White yield-, drop, Rhizoctonia, poor internals, drop? CR=3
- Chipeta Round White yield-, drop+, sticky stolon, late CR=3

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

Summary:

FL 1867 was the outstanding entry based on yield and appearance. FL 1833 was had the best chip appearance.

**OUTSTANDING TEXAS ADVANCED CHIP SELECTIONS, 2010**

**Overall Summary - Springlake and Dalhart:** The Texas Advanced Chip Selection Trial at Springlake included 27 entries, with 28 entries planted at Dalhart. Atlantic and Chipeta were the check varieties for both locations. Based on both trials ATTX03474-1W, AOTX95295-1W, AOTX95309-3W, NDTX059997-2W, TX03196-1W, NDTX059997-6W, ATTX03476-2W, ATTX03475-2W, ATTX03475-6W, ATTX03446-4W,



- NDTX059997-2W Round White yield+, BOT+, deep eyes, parent, TC, deep belly button CR=1
- ATTX03446-4W Round White small, nice, nice internals CR=1
- COTX03303-1W Oblong White nice interior CR=2
- King Harry Oblong White some rot, heavy set, sticky stolon
- TX03196-1W Round White drop, heavy set CR=2
- Atlantic Round Buff nice shape, large tubers, sticky stolon, parent CR=1
- COTX02377-1W Round White yield-, deep nose, shape-, Rhizoctonia
- Prince Hairy Oblong White yield-, deep eyes, heat sprouts, drop+ CR=2
- NDTX059828-2W Round White drop, nice flesh CR=1+
- ATX85404-8W Round White yield-, heat sprouts, sticky stolon
- NDTX059997-6W Round White nice shape, poor internals, light set, heat sprouts
- TX05249-11W Round White yield-, sticky stolon CR=1+
- ATTX03474-3W Oblong White small, sticky stolon CR=1
- NDTX059997-7W Round White small, yield-, heat sprouts, drop
- TX05249-3W Round White yield- CR=2
- COTX03270-1W Oblong White small, heat sprouts, yield-
- TX05249-5W Round White drop+, heavy set, sticky stolon
- NDTX059632-1W Round White small, drop+
- ATTX03476-2W Round White yield-, sticky stolon, BOT, some rough CR=2
- NDTX059979-1W Round White small, heat sprouts, rough, sticky stolon, Rhizoctonia
- TX1673-1W Oblong White drop+
- ATTX98466-5R/W-R Round White small, heat sprouts, light red streak in flesh
- TX05249-10W Round White drop, yield-, sticky stolon CR=2

Summary:

ATTX03474-1W, NY138 were the outstanding entries in this trial based on all factors. AOTX95309-3W and NDTX05997-2W were the outstanding entries based on general rating and best of trial designations for appearance and chip quality.

**OUTSTANDING TEXAS ADVANCED RUSSET SELECTIONS, 2010**

**Overall Summary - Springlake and Dalhart:** The Texas Advanced Russet Selection Trials had 25 entries at Springlake and 40 at Dalhart. Russet Norkotah was the check variety for both locations. Based on both trials, Stampede Russet, TXA549-1Ru, COTX0595-1Ru, AOTX98152-3Ru, ATTX03475-10Ru, AOTX02060-1Ru, ATX99194-3Ru, AOTX95265-3Ru, AOTX95265-1Ru, AOTX98202-1Ru, ATTX03475-7Ru, ATX84378-6Ru, AOTX96084-1Ru, ATTX03475-9Ru, AOTX96216-2Ru, ATX99013-1Ru, AOTX96265-2Ru, TXNS410, ATX91137-1Ru, and COTX0595-2Ru/Y will be re-evaluated in the 2011 season.

**TEXAS ADVANCED RUSSET SELECTION (Co. Source) TRIAL**

This russet trial consisted of 6 entries, including the check varieties Russet Norkotah and Russet Norkotah278.

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

- TXA549-1Ru was the outstanding entry based on general rating and best of trial designation (Tables 14a and 14e).
- Russet Norkotah278 and TXA549-1Ru had the highest total and marketable yield (Table 14a).
- TXA549-1Ru had the highest yield of 10-18 oz. tubers, while ATX9202-3Ru had the highest yield of less than 4 oz. tubers (Table a).
- Russet Norkotah278 had the highest yield of culls/No. 2 tubers (Table 14a).
- Russet Norkotah278 had the highest percentage of marketable yield (Table 14b).
- ATX9202-3Ru had the highest percentage of less than 4 oz. tubers. Russet Norkotah278 had the highest percentage of culls/No.2 tubers (Table 14b).
- TXA549-1Ru had the highest specific gravity (Table 14b).
- Russet Norkotah278 was the latest in maturity, while Russet Norkotah was the earliest in maturity (Table 14c).
- TXA549-1Ru had 20% vascular discoloration (Table 14d).

Comments on entries:

- |                      |               |   |
|----------------------|---------------|---|
| • Russet Norkotah278 | Long Russet   | yield+, nice flesh                                      |
| • TXA549-1Ru         | Oblong Russet | hollow heart, BOT, very nice, blocky                    |
| • Russet Norkotah    | Long Russet   | small, 13% rot  |
| • ATX91137-1Ru       | Oblong Russet | raised eyes, 10% rot, blocky, sticky stolon, 10% bruise |



- ATX9202-3Ru            Oblong Russet    sticky stolon
- AOTX96075-1Ru       Long Russet       small, rough, curved, drop

Summary:

TXA549-1Ru and Russet Norkotah278 were the outstanding entries in this trial based on yield and appearance.

**TEXAS ADVANCED RUSSET SELECTION TRIAL**

This russet trial consisted of 19 entries, including the check variety Russet Norkotah. Results were as follows: (Springlake Tables 15a, 15b, 15c, 15d, 15e, and 15f)

- COTX05095-1Ru and AOTX02060-1Ru were the outstanding entries based on general rating and best of trial designation. ATTX03475-10Ru and TXNS410 also received high general ratings (Tables 15a and 15e).
- COTX05095-1Ru and ATTX03475-10Ru had the highest total yield, while COTX05095-1Ru and AOTX02060-1Ru had the highest marketable yield (Table 15a).
- COTX05095-1Ru had the highest yield of 10-18 oz. tubers, while ATTX03475-10Ru had the highest yield of less than 4 oz. tubers (Table 15a).
- COTX06221-1Ru had the highest yield of culls/No. 2 tubers (Table 15a).
- COTX05095-1Ru had the highest percentage of marketable yield (Table 15b).
- ATX05142-2Ru had the highest percentage of less than 4 oz. and culls/No.2 tubers (Table 15b).
- ATX05142-2Ru had the highest specific gravity (Table 15b).
- AOTX06026-1Ru was the latest in maturity, while AOTX02060-1Ru was the earliest in maturity (Table 15c).
- AOTX02060-1Ru had 10% vascular discoloration (Table 15d).
- COTX05095-1Ru, COTX06221-1Ru, and AOTX06026-1Ru had over 11% Zebra Chip (Table 15f).

Comments on entries:

- COTX05095-1Ru   Long Russet    yield+, poor skin finish, nice flesh, large tubers, pysillid res., lacks appearance BOT-, parent?
- ATTX03475-10Ru   Long Russet    nice, smooth, blocky
- AOTX02060-1Ru   Long Russet    BOT

- COTX06221-1Ru Long Russet sticky stem, alligator hide, poor shape, drop, light skin, deep eyes, rough
- ATX97147-4Ru Long Russet sticky stolon, rough, light net
- AOTX98096-1Ru Long Russet nice shape, small, blocky, light skin
- ATX99194-3Ru Oblong Russet heat sprout, blocky, small, nice shape
- AOTX98202-1Ru Long Russet light net
- Stampede Russet Oblong Russet
- ATX99013-1Ru Oblong Russet nice flesh, rough, poor shape, bad rep, 60% stem end rot
- AOTX95265-3Ru Long Russet poor shape, nice net, yield-, curved
- TXNS410 Oblong Russet
- ATX84378-6Ru Oblong Russet some rot, blocky, nice flesh,
- AOTX95265-4Ru Oblong Russet light yellow flesh?, small, blocky
- AOTX06026-1Ru Oblong Russet blocky, ok shape
- AOTX96208-1Ru Long Russet small, curved
- Russet Norkotah Oblong Russet small, nice shape
- TXNS551 Oblong Russet nice, small, bad rep
- ATX05142-2Ru Long Russet small, bad rep, drop

Summary:

COTX05095-1Ru, ATTX03475-10Ru, and AOTX02060-1Ru were the outstanding entries in this trial based on yield and appearance.

**OUTSTANDING TEXAS ADVANCED RED SELECTIONS, 2010**

**Overall Summary - Springlake and Dalhart:** The Texas Advanced Red Selection Trials had 19 entries at Springlake and 25 at Dalhart. Red LaSoda and Dark Red Norland were the check variety for both locations. Based on both trials, ATTX88481-1P/W, ATX98453-6R, NDTX731-1R, NDTX4784-7R, NDTX4271-5R, Rio Rojo, AOTX93483-1R, ATX03550-2R, BTX2332-1R, ATX03516-2R, NDTX05070-1R, NDTX5438-11R, COTX94216-1R, ATTX98453-11BR, COTX94218-1R, and NDTX4784-7R will be re-evaluated in the 2011 season.

## TEXAS ADVANCED RED SELECTION (Co. source) TRIAL

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

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

- ATTX98453-6R was the outstanding entry based on general rating and best of trial designations. ATTX88481-1P/W also received a high general rating (Tables 16a and 16e).
- Dark Red Norland and Red LaSoda had the highest total yield (Table 16a). Dark Red Norland and ATTX88481-1P/W had the highest marketable yield (Table 16a).
- Dark Red Norland had the highest yield of less than 4 oz tubers (Table 16a).
- ATTX88481-1P/W had the highest percentage of marketable yield (Table 16b).
- ATTX01178-1R had the highest percentage of less than 4 oz. tubers (Table 16b).
- COTX00104-7R was the latest maturing, while ATTX88481-1P/W was the earliest maturing (Table 16c).
- ATTX88481-1P/W and ATTX01178-1R showed the most feathering (Table 16d).
- Red LaSoda had the highest percentage of vascular discoloration (Table 16d).
- All of the entries had less than 4% Zebra Chip (Table 16f).

### Comments on entries:

- Dark Red Norland Oblong Red light skin, yield+, deep eyes, poor skin finish, escape small potato problem, 30% heat sprouts
- Red LaSoda Oblong Red light skin, yield+, large tubers, deep eyes
- ATTX88481-1P/W Oblong Purple nice shape and skin, feathering+, large tubers, resistant to cause of small potato, smooth, second growth, bulking parent, silver scurf+, heat sprouts,
- NDTX731-1R Round Red yield+, nice, poor skin finish, deep eyes, stem attachment
- NDTX4784-7R Round Red nice shape, nice skin, stem attachment, silver scurf, small+
- ATTX98453-6R Oblong Red nice++, feathering, BOT-, stem attachment
- ATTX01178-1R Oblong Red light skin, yield+, feathering, stem attachment

- COTX00104-7R Oblong Red yield-, nice flesh, stem attachment, poor skin finish++, alligator skin, drop+++

Summary:

ATTX88481-1P/W was the outstanding entry based on all factors. ATTX98453-6R was the best entry based on appearance.

**TEXAS ADVANCED RED SELECTION TRIAL**

This trial consisted of 12 entries, including the check varieties Red LaSoda and Dark Red Norland.

Results were as follows: (Springlake Tables 17a, 17b, 17c, 17d, 17e, and 17f)

- The outstanding entries based on general rating and best of trial designations was AOTX93483-1R. Red LaSoda and NDTX4271-5R also received a high general rating (Tables 17a and 17e).
- Red LaSoda had the highest total and marketable yield (Table 17a).
- NDTX050070-1R had the highest yield of less than 4 oz. and culls/No.2 tubers (Table 17a).
- Red LaSoda had the highest percentage of marketable yield (Table 17b).
- NDTX050239-2R had the highest percentage of less than 4 oz. tubers. COTX05211-4R had the highest percentage of culls/No. 2 tubers (Table 17b).
- NDTX050239-2R was the latest maturing, while Rio Rojo was the earliest maturing (Table 17c).
- Red LaSoda had the highest percentage of vascular discoloration (Table 17d).
- All of the entries had less than 5% Zebra Chip, (Table 17f).

Comments on entries:

- Red LaSoda Oblong Red deep eyes, sticky stolon
- NDTX050070-1R Round Red very white flesh
- NDTX4271-5R Round Red bad rep, nice skin
- Rio Rojo Round Red feathering, 10% heat sprouts, nice
- ATX03516-2R Oblong Red 12% heat sprouts, internal??
- AOTX93483-1R Oblong Red feathering, BOT, silver scurf, large tuber are rough
- NDTX050239-2R Round Red small+, dark skin, nice but small

- COTX05211-4R Round Red nice skin color, small, 50% sticky stolon, feathering, drop
- COTX05211-7R Round Red nice skin and flesh, small, drop
- NDTX039190-1R Round Red sticky stolon, nice white flesh, bad rep
- ATX03550-2R Oblong Red keep, 10% heat sprouts, nice skin, poor rep
- NDTX5438-11R Oblong Red sticky stolon, 20% heat sprouts

Summary:

Outstanding entries included Red LaSoda and NDTX4271-5R. AOTX93483-1R was the best entry based on appearance.

**OUTSTANDING TEXAS ADVANCED RED SKIN YELLOW FLESH SELECTIONS, 2010**

**Overall Summary - Springlake and Dalhart** The Texas Advanced Red Skin Yellow Flesh Selection Trials included 18 entries at Springlake and 27 at Dalhart. Based on both trials, the following entries will be tested again in 2011: COTX04267-1 R/Y, COTX04193-2R/Y, NDTX50184-1R/Y, ATTX961014-1BR/Y, COTX014013-4R/Y, ATTX961014-1R/Y, ATX05175-3R/Y, ATX03515-1R/Y, COTX04188-3R/Y, ATTX0315-2R/Y, and COTX06245-3R/Y.

**TEXAS ADVANCED RED SKIN/ YELLOW FLESH (Co. Source) SELECTION TRIAL**

This trial consisted of two entries.

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

- Both entries received similar general ratings (Tables 18a).
- ATTX961014-1BR/Y had higher total and marketable yield (Table 18a)
- ATTX961014-1BR/Y had the higher yield of less than 4 oz. tubers. (Table 18a).
- ATTX961014-1R/Y had the higher percentage of marketable yield. ATTX961014-1BR/Y had the higher percentage of less than 4 oz. tubers (Table 18b).
- Both entries were early in maturity (Table 18c).
- Both entries had light yellow flesh (Table 18d).
- Both entries showed no Zebra Chip (Table 18f).

Comments on entries:

- ATTX961014-1BR/Y Oblong Red 80% heat sprouts
- ATTX961014-1R/Y Round Red 80% heat sprouts

Summary:

ATTX961014-1BR/Y appeared to be superior in appearance with a slight increase in yield.

**TEXAS ADVANCED RED SKIN/ YELLOW FLESH SELECTION TRIAL**

This trial consisted of 16 entries.

Results were as follows: (Springlake Tables 19a, 19b, 19c, 19d, 19e, and 19f)

- The entry receiving a high general rating and best of trial designations was COTX041193-2R/Y. ATTX99325-1P also received a high general rating (Tables 19a and 19e).
- COTX05261-1R/Y had the highest total yield, while ATTX99325-1P had the highest marketable yield (Table 19a)
- COTX05261-1R/Y had the highest yield of less than 4 oz. tubers. ATTX98444-16R/Y had the highest yield of culls/No.2 tubers (Table 19a).
- ATTX99325-1P had the highest percentage of marketable yield. NDTX050184-1R/Y had the highest percentage of less than 4 oz. tubers. ATX05175-3R/Y had the highest percentage of culls/No.2 tubers (Table 19b).
- ATTX05191-3R/Y, NDTX050184-1R/Y, and ATTX02249-1R were the latest maturing entries, while COTX05261-1R/Y was the earliest (Table 19c).
- COTX04193-2R/Y, COTX04188-3R/Y, and COTX04267-1R/Y had the darkest yellow flesh (Table 19d).
- ATX03546-2R/Y, ATX03515-1R/Y, and ATTX02249-1R had over 25% vascular discoloration (Table 19d).
- COTX06240-2R/Y, ATTX02249-1R, and ATTX03516-2R/Y showed no Zebra Chip. ATTX05191-3R/Y, ATTX03553-1P/Y, and ATX03546-2R/Y had over 15% Zebra Chip (Table 19f).

Comments on entries:

- COTX05261-1R/Y Oblong Red poor shape, pointed, drop+, nice flesh
- ATX98448-6R/Y Round Red 62% heat sprouts, chain tubers, poor flesh color and skin, poor interior, drop++
- ATX03546-2R/Y Round Red 22% chain tubers, quarter size, 22% heat sprouts, drop+++
- ATTX03553-1P/Y Round Purple deep eyes, LaSoda like, drop++, 12% chain tubers
- ATTX00289-5R/Y Round Red 25% heat sprouts, drop++, half dollar size, nice shape
- COTX06240-2R/Y Round Red larger tubers, stolon attachment, poor internals
- COTX04267-1R/Y Round Red quarter to orange size, nice flesh and skin, keep, very small,
- ATTX05191-3R/Y Round Red quarter size, small, nice skin, 5% heat sprouts, chain tubers, drop
- ATX03515-1R/Y Oblong Red large tubers, orange size, mix yellow and white flesh
- ATX05175-3R/Y Oblong Red large tubers
- ATTX99325-1P Long Purple psyllid resistant.??, feathering, very nice white flesh, bulked, BOT, bad rep
- COTX04188-3R/Y Round Red 28% heat sprouts, keep for hardness, very firm, half dollar size, nice flesh
- COTX04193-2R/Y Round Red BOT-, nice flesh and skin,
- NDTX050184-1R/Y Round, Red 7.5% heat spouts, mix flesh color, drop, quarter size, small,
- ATTX02249-1R Round Red 14% heat sprouts, quarter size, drop+, sticky stolon
- ATTX03516-2R/Y Oblong Red dark skin, keep, nice skin, nickel size, drop

Summary:

ATTX99325-1P was the outstanding entry for this trial based on yield of marketable yield. COTX04193-2R/Y was the best entry based on appearance.

**TEXAS ADVANCED YUKON GOLD STRAIN TRIAL**

This trial consisted of 6 entries, including the check varieties Yukon Gold and Sierra Gold

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

- TXYG079 and Sierra Gold received a high general rating and a best of trial designation at grading. All of the entries received high general ratings. (Tables 10a and 10e).
- TXYG098 had the highest total yield, while TXYG057 had the highest marketable yield (Table 10a)
- TXYG098 had the highest yield of less than 4 oz. tubers. TXYG098 and TXYG055 had the highest yield of culls/No.2 tubers (Table 10a).
- Sierra Gold had the highest percentage of marketable yield. TXYG098 had the highest percentage of less than 4 oz. tubers (Table 10b).
- TXYG098 had the highest specific gravity (Table 10b).
- Sierra Gold and Yukon Gold were earlier in maturity than the strains (Table 10c).
- All of the entries had similar yellow flesh color (Table 10d).
- All of the entries had less than 5% Zebra Chip (Table 10f).

Comments on entries:

- TXYG098 Oblong, White yield+ BOT, poor shape, yield-
- TXYG079 Oblong White yield+ BOT, heavy set, BOT of strains, nice
- TXYG057 Oblong White yield+ BOT, very nice, some rot
- TXYG055 Oblong White yield+ BOT, more culls
- Yukon Gold Oblong White very nice, BOT
- Sierra Gold Oblong Russet very nice, BOT, smooth

Summary:

TXYG079 was the outstanding entry for this trial.

**OUTSTANDING TEXAS ADVANCED WHITE SKIN YELLOW FLESH SELECTIONS, 2010**

**Overall Summary - Springlake and Dalhart** The Texas Advanced White Skin Yellow Flesh Selection Trials included 16 entries at Springlake and 24 at Dalhart. Yukon Gold was the check variety for both locations. Based on both trials, the following entries will be tested again in 2011: TX1523-1Ru/Y, BTX1749-1W/Y, NDTX059759-3Pinto/Y, and NDTX060700C-1W (move to chip trial).

**TEXAS ADVANCED WHITE SKIN/YELLOW FLESH SELECTION TRIAL**



This trial consisted of 16 entries, including the check varieties TX1523-1Ru/Y and Yukon Gold

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

- The entry receiving the highest general rating was TX1523-1Ru/Y (Tables 21a).
- BTX1749-1W/Y had the highest total yield, while TX1523-1Ru/Y had the highest marketable yield (Table 21a)
- NDTX050169-2W/Y had the highest yield of less than 4 oz. tubers. BTX1749-1W/Y had the highest yield of culls/No.2 tubers (Table 21a).
- TX1523-1Ru/Y had the highest percentage of marketable yield. NDTX050264-1W had the highest percentage of less than 4 oz. tubers. BTX1749-1W/Y had the highest percentage of culls/No.2 tubers (Table 21b).
- Yukon Gold had the highest specific gravity (Table 21b).
- NDTX059759-3Pinto/Y and ATTX98500-3PW/Y were the latest maturing entries, while NDTX050025-1W/Y, TX1523-1Ru/Y, and BTX1749-1W/Y were the earliest maturing (Table 21c).
- ATTX98500-3PW/Y and NDTX049265-2WRSP/Y had the darkest yellow flesh (Table 21d).
- ATTX00289-6Y/Y had the worst ratings for feathering (Table 21d).
- NDTX050264-1W had 50% Zebra Chip. All other entries had less than 9% Zebra Chip (Table 21f).

Comments on entries:

- |                   |               |   |
|-------------------|---------------|---|
| • BTX1749-1W/Y    | Oblong White  | heavy set, small , stem attachment, nice flesh, Sierra Gold type skin               |
| • ATTX00289-6Y/Y  | Oblong Yellow | keep, red eyes, 10% chain tubers, feathering, 10% heat sprouts, ZC susceptible      |
| • Yukon Gold      | Round White   | nice shape, 20% heat sprouts, rough, bad rep  |
| • BTX1544-2W/Y    | Round White   | bad rep   |
| • NDTX050169-2W/Y | Round White   | ok, rough, odd color, drop  |
| • NDTX050025-1W/Y | Round White   | odd skin color, shape-, second growth, drop, rough, pointed, small, 10% chain tuber |
| • NDTX060868-3Y/Y | Oblong Yellow | curved, poor shape+, drop++, small  |
| • TX1523-1Ru/Y    | Oblong Russet | mix, nice, bad rep  |

- TX04237-6Y/Y Round Yellow nice shape and skin, small, yield-, mix white and yellow flesh, drop++
- COTX04178-1Y/Y Round Yellow Pinto?, small potato, small, yield-
- ATTX98500-3PW/Y Oblong Purple-White purple-white skin, poor shape, second growth, heat sprouts, drop
- NDTX049265-2WRSP/Y Round White-Red Splash white red splash, yield-
- ATX03496-3Y/Y Oblong Yellow yield-, rough+, nice flesh, lenticels, drop+, small potato??
- ATX03546-1W/Y Round White yield-, smooth, small, 20% heat sprouts, small potato??, stem attachment
- NDTX050264-1W Round White small, drop if not small potato, small potato??
- NDTX059759-3Pinto/Y Oblong Pinto pinto, yield-, red white pinto, purple streak in flesh, advance, poor shape

Summary:

TX1523-1Ru/Y was the outstanding entry for this trial based on all factors.

**OUTSTANDING TEXAS ADVANCED SMALL POTATO SELECTIONS, 2010**

**Overall Summary - Springlake and Dalhart** The Texas Advanced Small Potato Selection Trials included 8 entries at Springlake and 11 at Dalhart. Based on both trials, the following entries will be tested again in 2011: ATX05202-3W/Y, COTX04050-1P/P, ATX2263-1R/Y, NDTX059886-1Y/Y, ATTX98444-16R/Y, ATTX05175-1R/Y, and ATX03546-1W/Y.

**TEXAS ADVANCED SMALL POTATO SELECTION TRIAL**

The Small Potato trial consisted of eight entries.

Results were as follows: (Springlake Tables 22a, 22b, 22c, 22d, 22e, and 22f)

- The entries receiving the highest general rating and best of trial designation were ATX05202-3W/Y , ATX03546-1W/Y-P, and ATTX98444-16R/Y (Tables 22a and 22e).

- ATX05202-3W/Y had the highest total yield (Table 22a)
- ATX03546-1W/Y-P had the highest yield of less than 1 inch tubers. ATX05202-3W/Y had the highest yield of over 2 inch tubers (Table 22a).
- ATX9132-2Y had the highest percentage of less than 1 inch tubers (Table 22b).
- ATTX98444-16R/Y had the highest specific gravity (Table 22b).
- ATX05202-3W/Y, NDTX059886-1Y/Y, COTX05037-4Y/Y, and ATX9132-2Y were the latest maturing entries, while ATX02263-1R/Y and ATTX98444-16R/Y were the earliest maturing (Table 22c).
- All the clones had less than 2% Zebra Chip (Table 22f).

Comments on entries:

- |                   |               |  |
|-------------------|---------------|--|
| • ATX05202-3W/Y   | Oblong White  | some larger tubers, nice, too oblong, 10% chain tubers, heavy set, 70% heat sprouts, BOT, nice skin, shape, and flesh        |
| • COTX04050-1P/P  | Oblong Purple | some larger tubers, nice, 30% chain tubers, heavy set, 30% heat sprouts, some white in flesh, variable flesh color intensity |
| • ATX03546-1W/Y-P | Oblong White  | nice, nice shape and size, BOT, 35% heat sprouts, chain tubers, poor shape   |
| • ATX02263-1R/Y   | Oblong Red    | some larger tubers, too oblong, smooth, nice flesh, nice skin color  |
| • NDTX059886-1Y/Y | Round Yellow  | some larger tubers, nice, nice shape, heavy set, 15% heat sprouts, 10% chain tubers, light flesh                             |
| • ATTX98444-16R/Y | Oblong Red    | some larger tubers, nice shape, Doug likes, silver scurf, very nice, BOT   |
| • COTX05037-4Y/Y  | Round Yellow  | some larger tubers, yield-, 10% chain tubers, poor shape   |
| • ATX9132-2Y      | Round White   | very late, no yield, parent, heavy set, very small   |

Summary:

ATX05202-3W/Y and ATTX98444-16R/Y were the outstanding entries for this trial.

## OUTSTANDING TEXAS ADVANCED FINGERLING SELECTIONS, 2010

**Overall Summary - Springlake and Dalhart** The Texas Advanced Fingerling Selection Trials included 4 entries at Springlake and 5 at Dalhart. Banana and Purple Peruvian were the check variety for both locations. Based on both trials, the following entries will be tested again in 2011: COTX03187-1W, ATTX02247-1R, and PTTX05PG07-1W.

### TEXAS ADVANCED FINGERLING SELECTION TRIAL

This specialty trial consisted of four entries, including the check varieties Banana and Purple Peruvian.

Results were as follows: (Springlake Tables 23a, 23b, 23c, 23d, and 23e)

- The entry receiving the highest general rating and best of trial designation was PTTX05PG07-1W. COTX03187-1W also received high general rating (Tables 11a and 11e).
- COTX03187-1W had the highest total yield. PTTX05PG07-1W had the highest marketable yield (Table 23a)
- COTX03187-1W had the highest yield of under sized tubers (Table 23a).
- PTTX05PG07-1W had the highest percentage of marketable yield. Purple Peruvian had the highest percentage of under sized tubers. COTX03187-1W had the highest percentage of culls/No.2 tubers (Table 23b).
- COTX03187-1W had the highest specific gravity (Table 23b).

#### Comments on entries:

- COTX03187-1W Long White shape-, too large for fingerling, smooth uniform size, send to Mel for baby bakers, move to baby bakers
- PTTX05PG07-1W Long White BOT, nice shape and smooth skin, better than Banana,
- Banana Long White poor shape, curved, lot of small potatoes
- Purple Peruvian Long Purple very small, deep eyes, white in flesh, small

#### Summary:

PTTX05PG07-1W and COTX03187-1W performed better than either check COTX03187-1W will be evaluated as a baby baker.

Springlake  
Table 1a. Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 7 entries in the Western Regional Chip Trial grown near Springlake, Texas-2010.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Under 1 in.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
		Total Yield	1-2 in.	2-3 in.	Over 3 in.				
CO00188-4W	206.4	195.3	24.0	166.1	5.2	7.6	3.5	3.3	3.8
Atlantic	175.7	161.4	17.5	122.4	21.5	7.4	6.9	3.3	3.1
A00188-3C	103.1	80.2	27.4	52.8	0.0	7.4	15.6	3.2	2.3
CO00197-3W	95.8	61.8	19.4	42.4	0.0	11.5	22.5	3.4	2.7
CO00270-7W	60.8	52.5	14.9	37.7	0.0	6.6	1.7	3.0	2.6
Chipeta	31.6	24.0	9.0	15.0	0.0	5.9	1.7	2.5	2.8
A01143-3C	11.1	3.5	3.1	0.3	0.0	4.1	3.5	1.5	1.3
Average	97.8	82.7	16.5	62.4	3.8	7.2	7.9	2.9	2.6
L.S.D. (.05)	30.7	33.9	14.8	26.1	10.3	ns	9.4	0.0	0.6

<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 7 entries in the Western Regional Chip Trial grown near Springlake, Texas-2010.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight		Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	1-2 in.	2-3 in.	Over 3 in.	Under 1 in.	Culls/ No. 2				
CO00188-4W	94.8	10.9	80.9	2.9	3.3	1.9	1.055	12.3	Round	White
Atlantic	91.3	10.4	69.9	11.0	4.5	4.2	1.056	12.5	Round	Buff
A00188-3C	77.9	26.8	51.1	0.0	7.1	15.0	1.047	10.9	Round	White
CO00197-3W	63.1	20.9	42.3	0.0	12.5	24.4	1.043	10.2	Oblong	White
CO00270-7W	83.0	25.9	57.1	0.0	12.0	5.0	1.044	10.3	Round	White
Chipeta	75.3	32.9	42.4	0.0	21.4	3.4	1.034	8.6	Round	White
A01143-3C	37.2	32.2	5.0	0.0	44.2	18.5	na	na	Round	White
Average	74.7	22.8	49.8	2.0	15.0	10.3	1.046	10.8		
L.S.D. (.05)	18.1	10.7	18.4	5.2	15.1	ns	0.009	1.6		

Springlake  
Table 1c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 7 entries in the Western Regional Chip Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
CO00188-4W	7.3	2.4	1.9	88	97	1.5	3.7	2.9	4.0	41
Atlantic	6.3	2.8	1.4	70	82	1.5	4.0	3.8	4.6	15
A00188-3C	4.1	1.8	3.3	100	100	2.0	4.0	4.6	4.0	0
CO00197-3W	4.4	1.6	1.6	86	98	1.8	4.3	3.9	4.4	11
CO00270-7W	2.8	1.7	1.9	96	100	1.8	4.1	3.6	4.2	19
Chipeta	1.8	1.3	2.2	88	96	1.5	4.6	5.0	4.7	0
A01143-3C	0.8	1.3	2.6	96	100	1.9	4.5	5.0	4.7	0
Average	3.9	1.9	2.1	89	96	1.7	4.2	4.1	4.4	12
L.S.D. (.05)	2.0	0.7	0.4	14	ns	0.3	0.5	0.5	0.2	14

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

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

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

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



Springlake  
Table 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 7 entries in the Western Regional Chip Trial grown near Springlake, Texas-2010.

Variety or Selection	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
CO00188-4W	1.0	2.3	1.5	4.5	1.5	5.0	5.0	5.0	5.0	5.0	0	0	8	0
Atlantic	1.0	1.9	1.8	4.5	1.8	5.0	5.0	5.0	5.0	5.0	0	0	33	0
A00188-3C	1.0	2.5	1.3	4.5	1.3	5.0	5.0	5.0	5.0	5.0	0	0	75	0
CO00197-3W	1.0	2.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	5	0	10	0
CO00270-7W	1.0	1.9	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	20	0
Chipeta	1.0	1.6	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	8	0
A01143-3C	1.0	1.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	10	0
Average	1.0	1.9	1.2	4.5	1.2	5.0	5.0	5.0	5.0	5.0	1	0	23	0
L.S.D. (.05)	ns	0.4	0.1	ns	0.1	ns	ns	ns	ns	ns	3	ns	33	ns

<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 7 entries in the Western Regional Chip Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
CO00188-4W	nice shape	nice flesh, BOT+, BOT for flesh, heavy set, small	3.3, 3.3, 3.3, 3.3	4, 3.8, 3.5, 3.8
Atlantic	nice shape	yield+, sticky stolon, poor internals, bad rep	3.3, 3.3, 3.3, 3.3	3, 3.5, 3.7, 2
A00188-3C	small	sticky stolon, heat sprouts, drop+, poor internals, rough, small	3.2, 3.2, 3.2, 3.2	2.5, 2.5, 2, 2
CO00197-3W	heavy set	poor shape, sticky stolon, pear shape, poor shape, drop++	3.4, 3.4, 3.4, 3.4	2.5, 2.5, 2.8, 2.8
CO00270-7W	yield-	drop+, small	3, 3, 3, 3	3, 2.5, 2.5, 2.5
Chipeta	yield-, drop	sticky stolon, late, drop	2.5, 2.5, 2.5, 2.5	2.5, 2.5, 3.5, 2.5
A01143-3C	small, late	drop, small, late	1.5, 1.5, 1.5, 1.5	2, 1, 1, 1

Springlake  
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 7 entries in the Western Regional Chip Trial grown near Springlake, Texas-2010.

Variety or Selection	Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
CO00188-4W	1.055	12.3	3.8	1	33/5	3 dark; BOT	8%	23%
Atlantic	1.056	12.5	3.1	1	3/97	17 Dark	4%	13%
A00188-3C	1.047	10.9	2.3	1	8/32	20 BC	10%	0%
CO00197-3W	1.043	10.2	2.7	1+	9/72	6 dark	9%	15%
CO00270-7W	1.044	10.3	2.6	2	19/21		0%	8%
Chipeta	1.034	8.6	2.8	3	0/40	7 dark	3%	0%
A01143-3C	na	na	1.3	2	0/27		0%	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

Springlake  
Table 2a. Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 21 entries in the Western Regional Russet Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
A0008-1TE	194.3	159.4	25.8	83.8	49.8	0.0	13.0	22.0	3.9
CO99100-1RU	189.3	170.3	38.9	96.3	35.0	0.0	9.5	9.5	3.8
Russet Burbank	146.0	11.8	5.1	6.7	0.0	0.0	16.4	117.9	1.5
Ranger Russet	144.0	79.9	24.5	45.5	9.9	0.0	16.9	47.2	2.7
AOTX95265-1Ru	138.1	92.9	42.6	50.2	0.0	0.0	27.2	18.0	3.4
Russet Norkotah	134.0	104.4	47.9	56.5	0.0	0.0	19.4	10.2	3.4
AO96305-3	114.3	83.8	35.8	45.8	2.2	0.0	18.7	11.8	3.0
A98345-1	112.4	67.6	13.3	39.2	15.0	0.0	14.0	30.8	2.7
CO99053-4RU	111.8	57.0	30.6	26.4	0.0	0.0	35.8	19.0	2.6
AO00057-2	105.1	72.6	38.4	32.8	1.4	0.0	28.5	4.0	3.2
A00324-1	95.2	67.6	24.5	41.3	1.7	0.0	10.9	16.8	2.8
A97066-42LB	92.0	36.1	20.6	15.6	0.0	0.0	48.7	7.1	2.7
AOTX96216-2Ru	91.4	51.9	12.8	22.5	16.6	0.0	11.2	28.3	3.2
PA00N14-2	83.1	61.2	20.6	40.6	0.0	0.0	10.7	11.2	3.2
CO99053-3RU	80.9	45.8	21.8	24.0	0.0	0.0	25.9	9.2	2.6
AOTX96265-2Ru	79.5	58.8	25.4	30.6	2.8	0.0	16.9	3.8	3.1
A01010-1	78.0	44.1	22.6	21.4	0.0	0.0	23.7	10.2	2.5
CO98067-7RU	68.6	37.3	16.9	20.4	0.0	0.0	20.6	10.7	2.6
AC99375-1RU	58.4	13.0	10.4	2.6	0.0	0.0	41.7	3.8	2.3
PA99N82-4	52.9	27.1	15.7	11.4	0.0	0.0	15.7	10.0	2.6
PA99N2-1	41.7	12.1	8.5	3.6	0.0	0.0	24.5	5.0	2.1
Average	105.3	64.5	23.9	34.2	6.4	0.0	21.4	19.4	2.8
L.S.D. (.05)	18.0	21.1	12.4	20.8	11.8		13.1	12.1	0.3

<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 21 entries in the Western Regional Russet Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
A0008-1TE	82.5	13.2	42.7	26.7	0.0	6.4	11.1	1.052	11.7	Long	Russet
CO99100-1RU	90.0	20.9	50.6	18.5	0.0	5.3	4.7	1.046	10.7	Long	Russet
Russet Burbank	8.0	3.4	4.6	0.0	0.0	11.4	80.6	1.053	11.9	Long	Russet
Ranger Russet	56.3	16.7	32.5	7.1	0.0	11.9	31.8	1.055	12.3	Long	Russet
AOTX95265-1Ru	65.2	30.7	34.5	0.0	0.0	20.3	14.5	1.053	11.9	Long	Russet
Russet Norkotah	77.6	34.7	42.9	0.0	0.0	14.6	7.8	1.055	12.3	Long	Russet
AO96305-3	72.2	33.7	37.0	1.5	0.0	17.3	10.6	1.051	11.7	Long	Russet
A98345-1	58.8	11.5	34.3	13.0	0.0	13.3	27.9	1.044	10.5	Long	Russet
CO99053-4RU	48.6	27.9	20.7	0.0	0.0	33.6	17.8	1.038	9.3	Long	Russet
AO00057-2	69.9	37.3	31.6	1.0	0.0	26.6	3.5	1.058	12.9	Long	Russet
A00324-1	71.0	27.4	42.2	1.5	0.0	11.9	17.1	1.059	13.1	Long	Russet
A97066-42LB	37.5	21.6	15.8	0.0	0.0	54.9	7.6	1.064	14.0	Oblong	Russet
AOTX96216-2Ru	54.4	14.7	22.3	17.5	0.0	12.2	33.4	1.043	10.3	Oblong	Russet
PA00N14-2	73.1	24.4	48.7	0.0	0.0	13.7	13.2	1.055	12.3	Oblong	Russet
CO99053-3RU	57.0	27.8	29.2	0.0	0.0	31.8	11.2	1.042	10.0	Long	Russet
AOTX96265-2Ru	74.5	30.5	39.9	4.1	0.0	21.3	4.2	1.053	11.9	Long	Russet
A01010-1	55.3	29.0	26.3	0.0	0.0	31.4	13.3	1.036	9.0	Long	Russet
CO98067-7RU	52.8	24.8	28.0	0.0	0.0	31.5	15.7	1.040	9.6	Oblong	Russet
AC99375-1RU	15.9	12.1	3.9	0.0	0.0	77.8	6.3	1.053	11.9	Oblong	Russet
PA99N82-4	49.9	31.4	18.4	0.0	0.0	31.1	19.1	1.049	11.3	Oblong	Russet
PA99N2-1	28.9	22.3	6.6	0.0	0.0	57.8	13.2	1.048	11.1	Oblong	Russet
Average	57.1	23.6	29.2	4.3	0.0	25.5	17.3	1.050	11.4		
L.S.D. (.05)	17.1	12.0	17.7	9.0		14.4	9.8	0.009	1.3		

Springlake  
Table 2c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 21 entries in the Western Regional Russet Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
A0008-1TE	4.0	5.9	2.0	51	63	1.9	2.9	1.3	3.2	93
CO99100-1RU	3.0	5.0	1.9	89	98	2.6	3.5	1.1	3.5	99
Russet Burbank	1.4	2.8	2.3	91	100	1.9	4.1	3.8	4.3	34
Ranger Russet	2.8	4.1	1.8	74	86	1.9	3.8	3.7	4.0	26
AOTX95265-1Ru	3.0	3.3	2.0	99	100	1.8	3.8	2.9	4.1	56
Russet Norkotah	2.8	3.8	1.9	87	96	1.9	3.5	1.9	3.7	80
AO96305-3	3.9	3.1	2.0	59	72	1.6	3.5	2.1	3.6	70
A98345-1	2.7	4.3	1.7	62	73	1.9	3.4	3.7	3.8	25
CO99053-4RU	3.9	2.0	1.8	95	100	2.0	3.8	2.9	3.9	60
AO00057-2	3.3	2.9	1.8	70	88	1.5	3.9	2.9	3.8	51
A00324-1	2.0	3.3	2.1	80	95	1.9	3.9	3.8	3.9	18
A97066-42LB	5.9	1.8	2.0	64	78	1.5	3.6	4.1	3.4	23
AOTX96216-2Ru	1.8	4.0	2.1	68	91	1.5	4.1	3.5	4.1	43
PA00N14-2	3.3	3.6	1.8	38	52	2.0	3.0	2.0	3.3	76
CO99053-3RU	2.1	3.6	2.0	80	89	1.6	3.9	3.9	4.0	20
AOTX96265-2Ru	2.0	3.4	2.3	89	93	1.9	4.0	4.0	4.0	23
A01010-1	2.6	2.2	3.0	98	100	1.6	4.3	3.9	4.4	18
CO98067-7RU	2.4	2.2	1.8	88	96	1.6	4.3	2.7	4.2	71
AC99375-1RU	2.1	3.1	1.8	86	98	1.5	4.4	3.8	4.5	36
PA99N82-4	2.5	2.4	1.9	47	61	1.5	3.0	2.6	3.5	58
PA99N2-1	5.3	1.5	2.6	31	40	1.5	2.6	3.8	3.0	25
Average	3.0	3.3	2.0	74	84	1.8	3.7	3.1	3.8	48
L.S.D. (.05)	1.4	1.2	0.6	18	18	0.3	0.6	0.7	0.5	21

<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 russetting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 21 entries in the Western Regional Russet Trial grown near Springlake, Texas-2010.

Variety or Selection	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
A0008-1TE	1.0	4.0	4.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	5	0	5	0
CO99100-1RU	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	3.8	5	0	0	0
Russet Burbank	1.0	4.0	4.0	3.9	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Ranger Russet	1.0	4.5	3.8	2.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX95265-1Ru	1.0	4.0	4.5	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	10	0
Russet Norkotah	1.0	4.4	4.0	3.7	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AO96305-3	1.0	4.1	3.0	4.0	3.7	5.0	5.0	5.0	5.0	3.0	3	0	15	0
A98345-1	1.0	4.8	3.0	3.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO99053-4RU	1.0	4.4	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
AO00057-2	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A00324-1	1.0	4.0	4.0	4.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	10	0
A97066-42LB	1.0	3.7	3.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	3	8	0
AOTX96216-2Ru	1.0	3.8	4.5	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
PA00N14-2	1.0	3.8	3.9	4.3	4.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
CO99053-3RU	1.0	4.5	4.5	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
AOTX96265-2Ru	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	10	0
A01010-1	1.0	4.1	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	18	0
CO98067-7RU	1.0	3.7	4.0	4.4	4.0	5.0	5.0	5.0	5.0	5.0	5	0	8	3
AC99375-1RU	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	13	0
PA99N82-4	1.0	3.3	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	8	0
PA99N2-1	1.0	2.8	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	18	0
Average	1.0	4.0	3.9	3.9	3.9	5.0	5.0	5.0	5.0	4.8	1	0	6	0
L.S.D. (.05)	ns	0.2	0.1	0.1	0.1	ns	ns	ns	ns	0.1	ns	ns	ns	ns

<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 21 entries in the Western Regional Russet Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
A0008-1TE	parent, light net, BOT, some raised eyes	3.8, 3.9, 3.8, 3.9
CO99100-1RU	parent for fast bulk, very nice, feathering, 10% rot	3.9, 4, 3.6, 3.7
Russet Burbank	rough,	1.5, 1.5, 1.5, 1.5
Ranger Russet	poor shape, deep eyes, sticky stolon, drop, sticky stolon, skinny, rough	2.8, 2.8, 2.5, 2.5
AOTX95265-1Ru	blocky, small, 20% bruise, nice	3.5, 3.5, 3.3, 3.3
Russet Norkotah	small, 30% rot, 20% rot	3.4, 3.4, 3.5, 3.4
AO96305-3	long skinny, feathering, light net	3.1, 2.8, 3, 3
A98345-1	deep eyes, poor russet skin, sticky stolon, drop, sticky stolon, light net, drop, ugly	2.8, 2.5, 2.8, 2.5
CO99053-4RU	heat sprouts, poor shape, light net	2.5, 2.7, 2.5, 2.5
AO00057-2	10% bruise, light net	3.4, 3.3, 3.1, 3.1
A00324-1	rough pointed, Rhizoctonia, sticky stolon	2.5, 3.3, 2.5, 3
A97066-42LB	blocky, raised eyes, light net, small	2.8, 2.4, 3.2, 2.2
AOTX96216-2Ru	curved, blocky, nice, rough, bad rep	3.3, 3.4, 3.8, 2.3
PA00N14-2	ugly net, drop+, sticky stolon, blocky, nice shape, poor skin type	3.2, 3.3, 3, 3.3
CO99053-3RU	pointed, drop, small, poor shape, skinny, sticky stolon,	2.5, 2.5, 2.8, 2.5
AOTX96265-2Ru	sticky stolon, too long	3, 3, 3.2, 3
A01010-1	skinny, 10% bruise, drop	2.5, 2.8, 2.3, 2.5
CO98067-7RU	small, blocky, 10% bruise, sticky stolon	2.5, 2.5, 2.7, 2.7
AC99375-1RU	small, rough, very small, drop++	2.5, 2, 2, 2.5
PA99N82-4	small, too round	2.6, 2.8, 2.5, 2.5
PA99N2-1	small, round to oblong	2.5, 2, 2, 2



Springlake  
Table 2f.

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 21 entries in the Western Regional Russet Trial grown near Springlake, Texas-2010.

Variety or Selection	Gravity	% Solids	General Rating <sup>1</sup>	Tuber Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
A0008-1TE	1.052	11.7	3.9	3	5/33	3 Dark	11%	15%
CO99100-1RU	1.046	10.7	3.8	2	0/38	1 Dark, 1 BC	5%	3%
Russet Burbank	1.053	11.9	1.5	3	0/39	3 Dark	5%	18%
Ranger Russet	1.055	12.3	2.7	1	0/48	4 Dark	8%	18%
AOTX95265-1Ru	1.053	11.9	3.4	2	4/36		3%	10%
Russet Norkotah	1.055	12.3	3.4	2	0/53	2 dark, 2 fresh ZC	8%	8%
AO96305-3	1.051	11.7	3.0	3	3/37	1 Dark	5%	5%
A98345-1	1.044	10.5	2.7	1	2/40	4 Dark	7%	15%
CO99053-4RU	1.038	9.3	2.6	3	0/40	16 Dark, 1 BC	3%	15%
AO00057-2	1.058	12.9	3.2	2	2/38	4 Dark	0%	28%
A00324-1	1.059	13.1	2.8	2	6/43	1 Dark	4%	10%
A97066-42LB	1.064	14.0	2.7	1	16/24	1 HH, 3 Dark	0%	3%
AOTX96216-2Ru	1.043	10.3	3.2	3	3/38	9 Dark	20%	13%
PA00N14-2	1.055	12.3	3.2	3	0/39	2 Dark	3%	3%
CO99053-3RU	1.042	10.0	2.6	3	4/35	3 Dark	3%	0%
AOTX96265-2Ru	1.053	11.9	3.1	2	3/36	2 Dark	3%	5%
A01010-1	1.036	9.0	2.5	2	0/40		13%	8%
CO98067-7RU	1.040	9.6	2.6	2	0/42	6 Dark	2%	25%
AC99375-1RU	1.053	11.9	2.3	3	2/31	9 Dark	27%	23%
PA99N82-4	1.049	11.3	2.6	2	2/43	2 Dark	9%	23%
PA99N2-1	1.048	11.1	2.1	2	0/41		5%	10%

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

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

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

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

Springlake  
Table 3a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 7 entries in the Western Regional Red Trial grown near Springlake, Texas-2010.

Variety or Selection	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					
Dark Red Norland	334.7	146.6	123.3	23.3	0.0	0.0	185.1	2.9	3.2	2.9
Red LaSoda	252.1	108.6	72.6	36.0	0.0	0.0	143.6	0.0	3.2	3.4
CO99076-6R	178.9	40.2	40.2	0.0	0.0	0.0	138.1	0.7	2.8	3.6
BTX2332-1R	151.4	21.6	21.6	0.0	0.0	0.0	129.8	0.0	3.3	3.9
COTX94216-1R	149.0	18.7	18.7	0.0	0.0	0.0	125.8	4.5	2.8	3.3
COTX94218-1R	73.6	0.0	0.0	0.0	0.0	0.0	73.6	0.0	2.3	3.2
CO99256-2R	56.0	0.0	0.0	0.0	0.0	0.0	56.0	0.0	1.4	3.0
Average	170.8	48.0	39.5	8.5	0.0	0.0	121.7	1.2	2.7	3.3
L.S.D. (.05)	55.3	32.6	31.6	14.0			32.9	ns	0.7	0.3

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

Springlake  
Table 3b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 7 entries in the Western Regional Red Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
Dark Red Norland	43.6	36.2	7.3	0.0	0.0	55.6	0.8	1.034	8.5	Oblong	Red
Red LaSoda	42.5	28.7	13.8	0.0	0.0	57.5	0.0	1.036	9.0	Oblong	Red
CO99076-6R	19.4	19.4	0.0	0.0	0.0	80.1	0.5	1.044	10.4	Round	Red
BTX2332-1R	13.2	13.2	0.0	0.0	0.0	86.8	0.0	1.049	11.2	Round	Red
COTX94216-1R	12.7	12.7	0.0	0.0	0.0	84.8	2.5	1.034	8.5	Round	Red
COTX94218-1R	0.0	0.0	0.0	0.0	0.0	100.0	0.0	1.024	6.8	Round	Red
CO99256-2R	0.0	0.0	0.0	0.0	0.0	100.0	0.0	1.032	8.1	Round	Red
Average	18.8	15.8	3.0	0.0	0.0	80.7	0.5	1.036	8.9		
L.S.D. (.05)	9.9	9.3	4.5			10.0	ns	ns	ns		

Springlake  
Table 3c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 7 entries in the Western Regional Red Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
Dark Red Norland	9.7	3.3	3.1	73	89	1.8	3.9	3.2	4.0	18
Red LaSoda	9.6	2.7	2.3	69	82	1.8	4.0	2.7	4.1	27
CO99076-6R	11.7	1.6	1.7	69	81	1.8	3.0	4.1	3.3	0
BTX2332-1R	7.9	1.9	2.7	74	88	1.6	3.3	3.6	3.5	1
COTX94216-1R	8.2	1.7	3.3	76	91	2.1	3.8	3.9	3.9	8
COTX94218-1R	8.1	0.8	3.8	76	92	1.8	3.5	5.0	3.7	0
CO99256-2R	7.4	0.6	2.5	82	98	1.9	4.1	4.8	4.3	0
Average	8.9	1.8	2.8	74	89	1.8	3.7	3.9	3.8	8
L.S.D. (.05)	ns	0.6	0.7	ns	ns	ns	0.7	0.6	0.6	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 3d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 7 entries in the Western Regional Red Trial grown near Springlake, Texas-2010.

Variety or Selection	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
Dark Red Norland	1.0	3.5	1.0	2.0	2.5	5.0	5.0	5.0	5.0	4.1	0	0	8	0
Red LaSoda	1.0	3.0	1.0	1.5	3.0	4.8	5.0	5.0	5.0	4.5	0	0	23	0
CO99076-6R	1.0	1.5	1.0	4.0	3.9	5.0	5.0	5.0	5.0	4.1	0	0	3	0
BTX2332-1R	1.0	1.5	1.0	4.3	4.5	5.0	5.0	5.0	5.0	3.9	0	0	3	0
COTX94216-1R	1.0	2.0	1.0	4.4	4.0	5.0	5.0	5.0	5.0	4.5	0	0	5	0
COTX94218-1R	1.0	1.5	1.0	3.5	3.7	5.0	5.0	5.0	5.0	4.5	0	0	5	0
CO99256-2R	1.0	1.8	1.0	4.3	4.0	5.0	5.0	5.0	5.0	4.5	0	0	0	0
Average	1.0	2.1	1.0	3.4	3.6	5.0	5.0	5.0	5.0	4.3	0	0	6	0
L.S.D. (.05)	ns	0.1	ns	0.3	0.1	ns	ns	ns	ns	0.2	ns	ns	ns	ns

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

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

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

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

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

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

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

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

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

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

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

Springlake  
Table 3e.

Notes and general rating for all reps of 7 entries in the Western Regional Red Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
Dark Red Norland	light skin, yield+	poor skin finish, escape small potato problem, deep eyes, 30% heat sprouts	3, 3.3, 3.4, 3	3, 3.5, 2.5, 2.5
Red LaSoda	light skin, yield+	large tubers, deep eyes, , ,	3, 3.4, 3.2, 3.2	3.4, 3.4, 3.4, 3.4
CO99076-6R	nice shape and color	nice flesh, BOT+, very nice, nice skin, nice flesh, stem attachment	3, 3.6, 2, 2.5	3.5, 4, 3.5, 3.2
BTX2332-1R	nice shape and color	BOT, , silver scurf, small, nice	3.2, 3.4, 3, 3.4	4, 4, 4, 3.5
COTX94216-1R	heavy set	drop, stem attachment, poor shape, silver scurf, poor skin finish+++ , nice white flesh	3.2, 2, 3, 3	3.4, 3.5, 3.4, 3
COTX94218-1R	yield-	very white flesh, small	2.8, 1.5, 2.8, 2	3.2, 3, 3.5, 3
CO99256-2R	yield-	small, small+	1.5, 1, 1.5, 1.5	3, 3, 3, 3

Springlake  
Table 3f.

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 7 entries in the Western Regional Red Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
Dark Red Norland	1.034	8.5	2.9	3	7/33	1 zc, 2 mottle, 23 vas, 7 dark	3%	0%
Red LaSoda	1.036	9.0	3.4	3	1/29	17 vas, 1 zc, 11 dark	0%	0%
CO99076-6R	1.044	10.4	3.6	3	0/9	9 vas	0%	0%
BTX2332-1R	1.049	11.2	3.9	3	0/42	42 vas/ dark	0%	0%
COTX94216-1R	1.034	8.5	3.3	2	3/37	29 vas, 8 dark	0%	0%
COTX94218-1R	1.024	6.8	3.2	3	8/115	110 vas, 4 dark, 1 zc	1%	0%
CO99256-2R	1.032	8.1	3.0	3	0/12	9 vas, 3 zc	25%	0%

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

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

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

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

Springlake Table 4a. 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 Western Regional Red/Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	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					
POR03PG80-2	214.1	120.1	40.6	74.9	4.7	0.0	82.7	11.2	3.5	3.4
A99326-1PY	159.5	69.7	42.4	25.4	1.9	0.0	84.8	5.0	3.4	3.5
A99331-2RY	74.7	0.0	0.0	0.0	0.0	0.0	69.8	4.8	2.1	2.3
Average	149.4	63.3	27.7	33.4	2.2	0.0	79.1	7.0	3.0	3.0
L.S.D. (.05)	37.5	29.7	9.6	26.6	ns		ns	ns	0.4	0.1

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



Springlake  
Table 4b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 3 entries in the Western Regional Red/Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
POR03PG80-2	55.8	18.9	34.5	2.5	0.0	38.8	5.4	1.080	16.8	Oblong	Purple
A99326-1PY	43.4	26.7	15.4	1.3	0.0	53.1	3.5	1.097	19.9	Oblong	Purple
A99331-2RY	0.0	0.0	0.0	0.0	0.0	94.0	6.0	1.093	19.2	Round	Red
Average	33.1	15.2	16.6	1.3	0.0	61.9	5.0	1.090	18.6		
L.S.D. (.05)	6.0	2.0	9.1	ns		7.8	ns	ns	ns		

Springlake  
Table 4c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 3 entries in the Western Regional Red/Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
POR03PG80-2	5.2	3.8	1.9	68	86	1.4	3.6	5.0	3.7	0
A99326-1PY	4.4	3.0	2.1	86	98	1.6	4.6	3.5	4.7	16
A99331-2RY	10.1	0.6	2.2	83	96	1.9	4.0	5.0	4.1	0
Average	6.6	2.5	2.1	79	93	1.6	4.0	4.5	4.2	5
L.S.D. (.05)	2.1	0.5	ns	11	9	ns	0.3	0.4	0.3	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

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 3 entries in the Western Regional Red/Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	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
POR03PG80-2	1.9	3.6	1.0	3.6	5.0	5.0	5.0	5.0	5.0	5.0	0	0	25	0
A99326-1PY	2.8	3.1	1.0	3.5	5.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
A99331-2RY	3.0	1.5	1.0	4.5	3.0	5.0	5.0	5.0	5.0	14.3	0	0	0	0
Average	2.6	2.7	1.0	3.9	4.3	5.0	5.0	5.0	5.0	7.6	0	0	8	0
L.S.D. (.05)	0.2	0.4	ns	0.1	0.1	ns	ns	ns	ns	ns	ns	ns	ns	ns

<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 3 entries in the Western Regional Red/Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Grading	General Rating Field	General Rating Grading
POR03PG80-2	alligator skin, poor skin finish, some rough	3.3, 3.8, 3.6, 3.3	3.5, 3.3, 3.3, 3.3
A99326-1PY	lenticels, poor skin finish, nice flesh, BOT of Purple skin, sticky	3, 3.4, 3.8, 3.5	3.5, 3.5, 3.5, 3.5
A99331-2RY	very small, heat sprouts, red splash, drop	2, 2.5, 2, 2	2.5, 2.2, 2.2, 2.2

Springlake  
Table 4f.

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 3 entries in the Western Regional Red/Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
POR03PG80-2	1.080	16.8	3.4	3	0/38	24 vas, 14 dark	0%	0%
A99326-1PY	1.097	19.9	3.5	2	19/21	18 vas, 3 zc	8%	8%
A99331-2RY	1.093	19.2	2.3	3	17/25	21 vas, 3 dark, 1 zc	7%	0%

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

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

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

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

Springlake  
Table 5a.

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 Western Regional White Yellow Flesh Trial grown near Springlake, Texas-2010.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
		Total Yield	4-6 oz	6-10 oz	10-18 oz					
Yukon Gold	207.6	118.8	65.9	52.9	0.0	0.0	78.8	10.0	3.8	3.9
ATC00293 -1W/Y	166.9	52.5	34.3	18.2	0.0	0.0	112.9	1.4	3.5	2.9
A00286-3Y	110.3	1.0	1.0	0.0	0.0	0.0	109.2	0.0	2.3	2.5
A99433-5Y	99.6	20.6	15.0	5.5	0.0	0.0	77.4	1.6	1.9	3.2
CO00412-5W/Y	85.2	9.3	4.5	4.8	0.0	0.0	73.5	2.4	1.9	2.9
Average	133.9	40.4	24.2	16.3	0.0	0.0	90.4	3.1	2.7	3.1
L.S.D. (.05)	50.1	25.0	21.9	13.8			ns	4.5	0.5	0.3

<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 5 entries in the Western Regional White Yellow Flesh Trial grown near Springlake, Texas-2010.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Yukon Gold	56.8	31.3	25.5	0.0	0.0	38.2	4.9	1.055	12.3	Oblong	White
ATC00293 -1W/Y	31.7	21.3	10.4	0.0	0.0	67.5	0.8	1.047	11.0	Oblong	White
A00286-3Y	1.0	1.0	0.0	0.0	0.0	99.0	0.0	1.053	11.9	Oblong	White
A99433-5Y	20.1	14.1	6.1	0.0	0.0	78.5	1.4	1.054	12.2	Oblong	White
CO00412-5W/Y	11.4	6.1	5.3	0.0	0.0	85.2	3.4	1.063	13.7	Oblong	White
Average	24.2	14.8	9.5	0.0	0.0	73.7	2.1	1.054	12.2		
L.S.D. (.05)	12.9	13.1	9.6			13.6	ns	ns	ns		

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 5 entries in the Western Regional White Yellow Flesh Trial grown near Springlake, Texas-2010.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
Yukon Gold	6.3	3.3	1.6	58	79	1.0	3.8	2.6	3.8	35
ATC00293 -1W/Y	7.9	1.9	2.3	79	94	1.6	4.3	4.7	4.5	3
A00286-3Y	11.4	0.9	2.7	78	92	1.9	4.4	5.0	4.5	0
A99433-5Y	7.4	1.1	2.4	93	100	1.3	4.5	4.4	4.5	8
CO00412-5W/Y	8.4	0.8	3.8	88	100	2.0	4.3	4.2	4.3	3
Average	8.3	1.6	2.6	79	93	1.6	4.2	4.2	4.3	10
L.S.D. (.05)	0.2	0.2	0.4	17	13	0.3	ns	0.8	0.8	14

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

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

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

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



Springlake  
Table 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 5 entries in the Western Regional White Yellow Flesh Trial grown near Springlake, Texas-2010.

Variety or Selection	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
Yukon Gold	2.6	3.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATC00293 -1W/Y	3.3	3.5	1.5	4.5	1.0	5.0	5.0	5.0	5.0	3.8	0	0	0	0
A00286-3Y	2.5	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	3
A99433-5Y	2.9	2.3	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO00412-5W/Y	3.0	2.8	2.5	4.5	2.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Average	2.9	2.6	1.4	4.5	1.2	5.0	5.0	5.0	5.0	4.8	0	0	1	1
L.S.D. (.05)	0.4	0.2	0.4	ns	0.1	ns	ns	ns	ns	0.2	ns	ns	ns	ns

<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 5 entries in the Western Regional White Yellow Flesh Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
Yukon Gold	very nice, BOT	nice	4, 3.7, 3.6, 3.8	4, 4, 3.5, 4
ATC00293 -1W/Y	nice shape and skin	10% tuber moth, 17% heat sprouts, chain tubers++, drop, purple eyes, shape problems, lenticels, small, nice flesh	3.6, 3.5, 3.5, 3.2	2.8, 3, 2.8, 3
A00286-3Y	red eyes, small, late	60% heat sprouts, red eyes, chain tubers	2, 2, 2.5, 2.5	2.5, 2.5, 2.5, 2.5
A99433-5Y	late, small	small, yield-, stolon attachment	2.5, 1.5, 2, 1.7	3.3, 3.3, 3, 3
CO00412-5W/Y	very late, yield-, small	small++, nice flesh	1.5, 2, 2.5, 1.5	2.5, 3, 3, 3

Springlake  
Table 5f.

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 5 entries in the Western Regional White Yellow Flesh Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
Yukon Gold	1.055	12.3	3.9	3	48/64	61 vas, 2 zc, 1 dark	2%	0%
ATC00293 -1W/Y	1.047	11.0	2.9	3	4/40	26 vas, 10 dark, 4 zc	9%	5%
A00286-3Y	1.053	11.9	2.5	3	4/34	33 vas, 1 dark	0%	13%
A99433-5Y	1.054	12.2	3.2	2	27/15	14 vas, 1 zc	2%	0%
CO00412-5W/Y	1.063	13.7	2.9	3	28/12	3 zc, 8 vas, 1 dark	8%	0%

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

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

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

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

Springlake  
Table 6a.

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 Southwestern Regional Chip Trial grown near Springlake, Texas-2010.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Under 1 in.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
		Total Yield	1-2 in.	2-3 in.	Over 3 in.				
CO02321-4W	210.9	194.3	25.6	146.6	22.1	6.2	10.4	3.3	3.7
Atlantic	175.7	161.4	17.5	122.4	21.5	7.4	6.9	3.3	3.1
CO02033-1W	151.3	69.5	13.8	51.2	4.5	7.4	74.3	2.5	1.8
CO02024-9W	118.9	82.8	41.0	41.8	0.0	24.0	12.1	3.3	3.0
AC01151-5W	79.9	52.2	14.3	37.9	0.0	12.1	15.6	3.0	1.9
Chipeta	37.9	29.5	10.4	19.1	0.0	6.7	1.7	2.5	2.8
Average	129.1	98.3	20.4	69.8	8.0	10.6	20.2	3.0	2.7
L.S.D. (.05)	32.6	25.7	14.4	22.6	10.7	7.7	15.3	0.0	0.9

<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 6 entries in the Southwestern Regional Chip Trial grown near Springlake, Texas-2010.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight		Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	1-2 in.	2-3 in.	Over 3 in.	Under 1 in.	Culls/ No. 2				
CO02321-4W	92.0	12.3	69.3	10.3	3.1	5.0	1.058	12.8	Round	White
Atlantic	91.3	10.4	69.9	11.0	4.5	4.2	1.056	12.5	Round	Buff
CO02033-1W	45.8	9.8	33.9	2.1	5.3	48.9	1.044	10.3	Oblong	White
CO02024-9W	69.7	34.6	35.0	0.0	20.3	10.1	1.039	9.5	Round	White
AC01151-5W	64.2	18.5	45.8	0.0	15.8	19.9	1.045	10.5	Round	White
Chipeta	78.4	29.1	49.4	0.0	18.2	3.4	1.034	8.6	Round	White
Average	73.6	19.1	50.5	3.9	11.2	15.2	1.046	10.7		
L.S.D. (.05)	11.6	11.4	16.4	5.2	7.0	7.8	0.010	1.9		

Springlake  
Table 6c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 6 entries in the Southwestern Regional Chip Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
CO02321-4W	6.5	2.9	1.4	74	90	1.5	4.0	4.0	4.2	15
Atlantic	6.3	2.8	1.4	70	82	1.5	4.0	3.8	4.6	15
CO02033-1W	3.9	2.4	1.9	78	88	1.5	3.9	4.5	4.0	6
CO02024-9W	7.7	1.2	2.1	95	97	2.0	4.0	4.9	4.1	0
AC01151-5W	4.2	1.5	1.5	82	96	1.8	4.0	4.4	4.4	3
Chipeta	2.1	1.4	2.2	88	96	1.5	4.6	5.0	4.7	0
Average	5.1	2.0	1.8	81	92	1.6	4.1	4.4	4.3	6
L.S.D. (.05)	1.7	0.4	0.3	ns	ns	0.2	0.5	0.6	0.2	9

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

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

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

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

Springlake  
Table 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 6 entries in the Southwestern Regional Chip Trial grown near Springlake, Texas-2010.

Variety or Selection	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
CO02321-4W	1.0	2.8	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	10	0
Atlantic	1.0	2.4	2.0	4.5	2.0	5.0	5.0	5.0	5.0	5.0	0	0	23	0
CO02033-1W	1.0	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	43	0
CO02024-9W	1.0	2.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	18	0
AC01151-5W	1.0	2.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	35	0
Chipeta	1.0	2.3	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	18	0
Average	1.0	2.6	1.2	4.5	1.2	5.0	5.0	5.0	5.0	5.0	0	0	24	0
L.S.D. (.05)	ns	0.5	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns

<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 6e.

Notes and general rating for all reps of 6 entries in the Southwestern Regional Chip Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
CO02321-4W	small	sticky stolon, BOT, nice, nice,	3.3, 3.3, 3.3, 3.3	4, 3.4, 4, 3.5
Atlantic	nice shape	yield+, sticky stolon, poor internals, bad rep	3.3, 3.3, 3.3, 3.3	3, 3.5, 3.7, 2
CO02033-1W	poor shape, drop	rough, heat sprouts, drop	2.5, 2.5, 2.5, 2.5	0, 2.5, 2.5, 2
CO02024-9W	heavy set, small	small, pear shape, ZC++poor shape, drop+	3.3, 3.3, 3.3, 3.3	3, 3, 3, 2.8
AC01151-5W	small	sticky stolon, drop, small, nice shape, chain tubers, poor internals, sticky stolon, small	3, 3, 3, 3	1.5, 2, 2, 2
Chipeta	yield-, drop	sticky stolon, late, drop	2.5, 2.5, 2.5, 2.5	2.5, 2.5, 3.5, 2.5



Springlake  
Table 6f.

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 6 entries in the Southwestern Regional Chip Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
CO02321-4W	1.058	12.8	3.7	1	23/17		3%	5%
Atlantic	1.056	12.5	3.1	1	3/97	17 Dark	4%	23%
CO02033-1W	1.044	10.3	1.8	3	0/30	7 dark	7%	23%
CO02024-9W	1.039	9.5	3.0					20%
AC01151-5W	1.045	10.5	1.9	1	9/31	1 dark	0%	10%
Chipeta	1.034	8.6	2.8	3	0/40	7 dark	3%	10%

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

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

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

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

Springlake  
Table 7a.

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 Southwestern Regional Russet Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
AOTX98152-3RU	267.4	220.2	70.5	99.7	50.0	0.0	32.5	14.7	3.9
Russet Norkotah	134.0	104.4	47.9	56.5	0.0	0.0	19.4	10.2	3.4
AOTX96084-1RU	112.7	86.8	41.0	45.1	0.7	0.0	16.6	9.3	3.4
ATX9332-12RU	107.3	76.1	43.2	32.8	0.0	0.0	25.6	5.7	3.0
Average	155.4	121.9	50.6	58.6	12.7	0.0	23.5	10.0	3.4
L.S.D. (.05)	18.2	17.8	12.1	22.1	7.1		ns	ns	0.2

<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 4 entries in the Southwestern Regional Russet Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
AOTX98152-3RU	82.3	26.5	37.0	18.8	0.0	12.1	5.6	1.058	12.8	Oblong	Russet
Russet Norkotah	77.6	34.7	42.9	0.0	0.0	14.6	7.8	1.055	12.3	Long	Russet
AOTX96084-1RU	76.9	36.1	40.2	0.6	0.0	14.9	8.1	1.049	11.3	Long	Russet
ATX9332-12RU	70.4	40.7	29.7	0.0	0.0	24.3	5.4	1.058	12.9	Oblong	Russet
Average	76.8	34.5	37.5	4.9	0.0	16.5	6.7	1.055	12.3		
L.S.D. (.05)	ns	8.7	ns	3.1		ns	ns	ns	ns		

Springlake  
Table 7c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 4 entries in the Southwestern Regional Russet Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
AOTX98152-3RU	4.8	4.7	2.7	79	93	2.0	4.0	2.9	4.1	55
Russet Norkotah	2.8	3.8	1.9	87	96	1.9	3.5	1.9	3.7	80
AOTX96084-1RU	2.6	3.6	3.1	83	94	2.0	3.4	2.1	3.7	71
ATX9332-12RU	3.0	2.9	1.7	85	98	1.5	4.1	3.6	4.3	30
Average	3.3	3.8	2.3	83	95	1.8	3.7	2.6	3.9	59
L.S.D. (.05)	0.5	0.4	0.4	ns	ns	0.4	0.5	8.0	0.4	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>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 4 entries in the Southwestern Regional Russet Trial grown near Springlake, Texas-2010.

Variety or Selection	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
AOTX98152-3RU	1.0	3.6	4.0	4.4	4.0	5.0	5.0	5.0	5.0	5.0	5	0	15	0
Russet Norkotah	1.0	4.4	4.0	3.7	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX96084-1RU	1.0	3.9	4.5	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	3	3
ATX9332-12RU	1.0	3.6	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	3	0
Average	1.0	3.9	4.1	4.0	4.0	5.0	5.0	5.0	5.0	5.0	2	0	5	1
L.S.D. (.05)	ns	0.2	0.1	0.2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns

<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 7e. Notes and general rating for all reps of 4 entries in the Southwestern Regional Russet Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
AOTX98152-3RU	BOT, blocky, nice	3.8, 4, 4, 3.7
Russet Norkotah	small, 12% rot	3.4, 3.4, 3.5, 3.4
AOTX96084-1RU	blocky, small	3.3, 3.3, 3.4, 3.5
ATX9332-12RU	small, ugly net, drop, blocky	2.8, 3, 3, 3.2

Springlake  
Table 7f.

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 4 entries in the Southwestern Regional Russet Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
AOTX98152-3RU	1.058	12.8	3.9					23%
Russet Norkotah	1.055	12.3	3.4	2	0/53	2 dark, 2 fresh ZC	8%	8%
AOTX96084-1RU	1.049	11.3	3.4	2	2/32	1 dark	9%	5%
ATX9332-12RU	1.058	12.9	3.0					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

Springlake  
Table 8a.

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 Southwestern Regional Red Trial grown near Springlake, Texas-2010.

Variety or Selection	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					
Dark Red Norland	334.7	146.6	123.3	23.3	0.0	0.0	185.1	2.9	3.2	2.9
Red LaSoda	252.1	108.6	72.6	36.0	0.0	0.0	143.6	0.0	3.2	3.4
AOTX91861-4R	198.7	60.6	50.9	9.7	0.0	0.0	138.1	0.0	2.9	3.4
NDTX5438-11R	166.6	16.3	16.3	0.0	0.0	0.0	150.3	0.0	2.4	3.6
ATTX98453-11BR	82.5	2.1	2.1	0.0	0.0	0.0	80.4	0.0	2.3	3.1
NDTX5003-2R	80.4	0.0	0.0	0.0	0.0	0.0	80.4	0.0	2.7	3.1
Average	185.8	55.7	44.2	11.5	0.0	0.0	129.6	0.5	2.8	3.2
L.S.D. (.05)	47.6	32.5	28.3	16.4			23.8	ns	0.7	0.4

<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 6 entries in the Southwestern Regional Red Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
Dark Red Norland	43.6	36.2	7.3	0.0	0.0	55.6	0.8	1.034	8.5	Oblong	Red
Red LaSoda	42.5	28.7	13.8	0.0	0.0	57.5	0.0	1.036	9.0	Oblong	Red
AOTX91861-4R	30.1	25.1	5.0	0.0	0.0	69.9	0.0	1.027	7.4	Round	Red
NDTX5438-11R	8.3	8.3	0.0	0.0	0.0	91.7	0.0	1.028	7.4	Oblong	Red
ATTX98453-11BR	2.2	2.2	0.0	0.0	0.0	97.8	0.0	1.041	9.9	Round	Red
NDTX5003-2R	0.0	0.0	0.0	0.0	0.0	100.0	0.0	1.036	9.0	Round	Red
Average	21.1	16.7	4.4	0.0	0.0	78.8	0.1	1.034	8.6		
L.S.D. (.05)	9.6	7.5	6.0			9.8	ns	ns	ns		

Springlake  
Table 8c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 6 entries in the Southwestern Regional Red Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
Dark Red Norland	9.7	3.3	3.1	73	89	1.8	3.9	3.2	4.0	18
Red LaSoda	9.6	2.7	2.3	70	82	1.8	4.0	2.7	4.1	26
AOTX91861-4R	8.6	2.0	2.2	88	100	2.4	3.7	3.8	3.9	8
NDTX5438-11R	11.5	1.3	3.6	84	97	2.0	3.9	3.4	4.1	13
ATTX98453-11BR	10.4	1.1	2.4	46	60	1.5	1.9	4.1	2.6	3
NDTX5003-2R	7.1	1.1	2.5	75	94	2.1	3.4	3.7	3.8	5
Average	9.5	1.9	2.7	73	87	1.9	3.5	3.5	3.7	12
L.S.D. (.05)	na	0.7	0.3	14	13	0.4	0.6	ns	0.5	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 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 6 entries in the Southwestern Regional Red Trial grown near Springlake, Texas-2010.

Variety or Selection	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
Dark Red Norland	1.0	3.5	1.0	2.0	2.5	5.0	5.0	5.0	5.0	4.1	0	0	8	0
Red LaSoda	1.0	3.0	1.0	1.5	3.0	4.8	5.0	5.0	5.0	4.5	0	0	30	0
AOTX91861-4R	1.0	1.5	1.0	4.5	3.9	5.0	5.0	5.0	5.0	4.0	0	0	18	0
NDTX5438-11R	1.0	2.4	1.0	4.5	3.8	5.0	5.0	5.0	5.0	4.0	0	0	0	0
ATTX98453-11BR	1.0	2.0	1.0	4.5	3.7	5.0	5.0	5.0	5.0	4.0	0	0	0	0
NDTX5003-2R	1.0	1.5	1.0	4.4	3.7	5.0	5.0	5.0	5.0	4.5	0	0	18	0
Average	1.0	2.3	1.0	3.6	3.4	5.0	5.0	5.0	5.0	4.2	0	0	12	0
L.S.D. (.05)	ns	0.1	ns	0.1	0.4	ns	ns	ns	ns	0.1	ns	ns	20	ns

<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

Springlake  
Table 8e.

Notes and general rating for all reps of 6 entries in the Southwestern Regional Red Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
Dark Red Norland	light skin, yield+	, poor skin finish, escape small potato problem, deep eyes, 30% heat sprouts	3, 3.3, 3.4, 3	3, 3.5, 2.5, 2.5
Red LaSoda	light skin, yield+	large tubers, deep eyes	3, 3.4, 3.2, 3.2	3.4, 3.4, 3.4, 3.4
AOTX91861-4R	smooth	nice, small, poor skin finish, stem attachment	3.2, 3, 3.4, 2	3.6, 3.4, 3.6, 3
NDTX5438-11R	yield+, nice	nice skin color, stem attachment, small	3, 3, 1.5, 2	3.7, 3.7, 3.5, 3.5
ATTX98453-11BR	nice shape, yield-	stem attachment	2.8, 2.8, 1.5, 2	3, 3, 3.2, 3.2
NDTX5003-2R	nice shape, yield-	small+, ugly eyes, poor skin finish, nice flesh	3, 3.2, 2.5, 2	3, 3, 3, 3.3

Springlake  
Table 8f.

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 6 entries in the Southwestern Regional Red Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
Dark Red Norland	1.034	8.5	2.9	3	7/33	1 zc, 2 mottle, 23 vas, 7 dark	3%	0%
Red LaSoda	1.036	9.0	3.4	3	1/29	17 vas, 1 zc, 11 dark	3%	0%
AOTX91861-4R	1.027	7.4	3.4	3	9/31	28 dark, 3 zc	8%	0%
NDTX5438-11R	1.028	7.4	3.6	3	0/40	26 vas, 14 dark	0%	0%
ATTX98453-11BR	1.041	9.9	3.1	3	0/39	39 vas/dark	0%	0%
NDTX5003-2R	1.036	9.0	3.1	2	17/23	19 vas, 4 dark	0%	0%

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

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

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

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

Springlake  
Table 9a.

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 Southwestern Regional Red Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	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					
COTX01403-4R/Y	301.7	162.1	73.8	59.0	29.4	0.0	97.7	41.8	3.7	3.6
ATTX98510-1R/Y	209.2	40.8	30.7	10.1	0.0	0.0	163.2	5.2	3.3	3.7
ATTX01180-1R/Y	145.5	36.5	24.9	11.6	0.0	0.0	107.0	2.1	3.4	3.8
ATTX88654-2P/Y	136.4	25.4	25.4	0.0	0.0	0.0	108.3	2.8	3.1	2.8
BTX2103-1R/Y	132.6	11.1	11.1	0.0	0.0	0.0	115.0	6.6	3.0	3.0
CO01399-10P/Y	62.1	0.0	0.0	0.0	0.0	0.0	57.6	4.5	2.5	2.3
Average	164.6	46.0	27.6	13.5	4.9	0.0	108.1	10.5	3.2	3.2
L.S.D. (.05)	40.3	16.2	15.1	9.2	13.7		27.6	19.2	0.5	0.2

<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 6 entries in the Southwestern Regional Red Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
COTX01403-4R/Y	54.6	25.8	19.7	9.1	0.0	32.2	13.2	1.087	18.0	Oblong	Red
ATTX98510-1R/Y	19.5	14.6	4.9	0.0	0.0	78.0	2.5	1.109	22.0	Oblong	Red
ATTX01180-1R/Y	25.4	16.9	8.4	0.0	0.0	73.3	1.4	1.084	17.5	Oblong	Red
ATTX88654-2P/Y	17.7	17.7	0.0	0.0	0.0	79.9	2.4	1.111	22.3	Round	Purple
BTX2103-1R/Y	8.6	8.6	0.0	0.0	0.0	86.4	5.0	1.083	17.3	Round	Red
CO01399-10P/Y	0.0	0.0	0.0	0.0	0.0	92.6	7.4	1.129	25.5	Oblong	Purple
Average	21.0	13.9	5.5	1.5	0.0	73.7	5.3	1.101	20.4		
L.S.D. (.05)	8.8	9.4	4.7	3.8		8.5	6.3	0.020	4.3		

Springlake  
Table 9c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 6 entries in the Southwestern Regional Red Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
COTX01403-4R/Y	8.3	3.2	2.5	73	89	1.8	3.6	3.1	3.8	30
ATTX98510-1R/Y	10.1	1.7	3.1	94	100	1.8	4.4	4.7	4.4	0
ATTX01180-1R/Y	6.3	1.9	2.9	85	98	2.0	4.2	3.7	4.3	0
ATTX88654-2P/Y	6.8	1.7	2.2	88	98	1.3	3.8	5.0	4.0	0
BTX2103-1R/Y	9.4	1.2	2.6	95	100	1.8	4.5	5.0	4.7	0
CO01399-10P/Y	7.9	0.8	2.0	86	88	1.6	4.2	5.0	4.5	0
Average	8.1	1.7	2.5	87	96	1.7	4.1	4.4	4.3	5
L.S.D. (.05)	ns	0.4	0.5	ns	ns	0.4	ns	0.5	0.4	9

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

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

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

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



Springlake  
Table 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 6 entries in the Southwestern Regional Red Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	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
COTX01403-4R/Y	3.5	3.5	1.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
ATTX98510-1R/Y	3.1	2.0	1.0	4.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX01180-1R/Y	3.5	3.4	1.0	4.5	4.5	5.0	5.0	5.0	5.0	3.5	0	0	0	0
ATTX88654-2P/Y	2.0	2.4	1.0	3.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX2103-1R/Y	2.5	1.5	1.0	4.5	3.9	5.0	5.0	5.0	5.0	5.0	0	0	3	0
CO01399-10P/Y	2.8	1.5	1.0	4.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	25	0
Average	2.9	2.4	1.0	4.3	3.9	5.0	5.0	5.0	5.0	4.8	0	0	5	0
L.S.D. (.05)	0.2	0.2	ns	0.1	0.1	ns	ns	ns	ns	0.1	ns	ns	ns	ns

<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

Springlake  
Table 9e.

Notes and general rating for all reps of 6 entries in the Southwestern Regional Red Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Grading	General Rating Field	General Rating Grading
COTX01403-4R/Y	blocky, large tubers, nice flesh, BOT, 10% heat sprouts	3.8, 3.8, 3.7, 3.3	3.3, 3.6, 3.7, 3.7
ATTX98510-1R/Y	nice flesh, BOT	3.4, 3.4, 3, 3.4	3.5, 3.8, 3.5, 3.8
ATTX01180-1R/Y	sticky stolon, dark flesh and skin, feathering, BOT, ZC??	3, 3.7, 3.4, 3.4	3.8, 3.8, 3.8, 3.8
ATTX88654-2P/Y	poor shape+, drop++, stem attachment, deep indentation at stem	3.3, 3.7, 2.5, 3	2.8, 2.8, 2.8, 2.8
BTX2103-1R/Y	silver scurf, small, drop, B size, sticky stolon, 10% heat sprouts	3.2, 3.3, 3, 2.5	3, 3.3, 2.6, 3
CO01399-10P/Y	drop, small, drop, heat sprouts, stolon attachment	2, 2.8, 2.8, 2.5	2.3, 2.3, 2.3, 2.3

Springlake  
Table 9f.

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 6 entries in the Southwestern Regional Red Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
COTX01403-4R/Y	1.087	18.0	3.6	3	0/42	31 vas, 2 zc, 9 dark	5%	0%
ATTX98510-1R/Y	1.109	22.0	3.7	3	15/163	13 zc, 124 vas, 18 dark ( 1 fresh zc)	7%	5%
ATTX01180-1R/Y	1.084	17.5	3.8	3	0/40	40 vas	0%	5%
ATTX88654-2P/Y	1.111	22.3	2.8	2	17/24	24 vas, BOT, nice	0%	0%
BTX2103-1R/Y	1.083	17.3	3.0	3	5/31	31 vas/ dark	0%	0%
CO01399-10P/Y	1.129	25.5	2.3	3	0/38	38 vas/ dark	0%	0%

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

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

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

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

Springlake  
Table 10a.

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 Southwestern Regional Purple Flesh Trial grown near Springlake, Texas-2010.

Variety or Selection	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					
Purple Majesty	267.1	12.8	12.8	0.0	0.0	0.0	193.8	60.5	4.0	2.9
TC02072-3P/P	178.7	0.0	0.0	0.0	0.0	0.0	126.7	52.0	2.1	3.9
COTX05082-2P/P	99.9	4.5	4.5	0.0	0.0	0.0	79.0	16.4	3.3	2.0
Average	181.9	5.8	5.8	0.0	0.0	0.0	133.2	43.0	3.1	2.9
L.S.D. (.05)	73.3	7.7	7.6				62.0	33.0	0.4	0.4

<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 3 entries in the Southwestern Regional Purple Flesh Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
Purple Majesty	5.0	5.0	0.0	0.0	0.0	73.0	22.0	1.041	9.7	Oblong	Purple
TC02072-3P/P	0.0	0.0	0.0	0.0	0.0	70.1	29.9	1.044	10.4	Long	Purple
COTX05082-2P/P	6.1	6.1	0.0	0.0	0.0	77.9	16.1	1.045	10.6	Oblong	Purple
Average	3.7	3.7	0.0	0.0	0.0	73.7	22.7	1.043	10.3		
L.S.D. (.05)	ns	ns	ns	ns	ns	ns	ns	ns	ns		

Springlake  
Table 10c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 3 entries in the Southwestern Regional Purple Flesh Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
Purple Majesty	10.5	1.8	3.4	92	99	1.6	4.4	1.5	4.5	74
TC02072-3P/P	13.8	1.1	4.0	67	86	1.9	4.0	5.0	4.0	0
COTX05082-2P/P	5.1	1.7	2.3	67	81	1.5	2.1	3.5	2.4	30
Average	9.8	1.5	3.2	75	89	1.7	3.5	3.3	3.6	35
L.S.D. (.05)	3.8	0.6	1.3	85	ns	ns	0.3	0.6	0.3	12

<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 3 entries in the Southwestern Regional Purple Flesh Trial grown near Springlake, Texas-2010.

Variety or Selection	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
Purple Majesty	3.5	3.5	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TC02072-3P/P	4.0	3.8	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX05082-2P/P	5.0	2.8	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	4.2	3.4	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)	0.1	0.1	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns

<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 3 entries in the Southwestern Regional Purple Flesh Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
Purple Majesty	nice, BOT	rough+, white in flesh, rough, silver scurf	4, 4, 3.8, 4	3, 3, 3, 2.5
TC02072-3P/P	shape-	fingerling?, rough, solid flesh, nice, smooth, very dark flesh, small	2.5, 2, 2, 2	3.5, 4, 4, 4
COTX05082-2P/P	nice shape, yield-	yield-, rough, very dark flesh, BOT for flesh color	3, 3.2, 3.5, 3.5	2, 2, 2, 2



Springlake  
Table 11a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 2 entries in the Southwestern Regional White Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	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					
TX1674-1W/Y	209.5	45.3	33.5	11.8	0.0	0.0	156.1	8.1	3.5	3.5
Yukon Gold	207.6	118.8	65.9	52.9	0.0	0.0	78.8	10.0	3.8	3.9
Average	208.6	82.0	49.7	32.3	0.0	0.0	117.5	9.1	3.6	3.7
L.S.D. (.05)	ns	53.7	ns	35.7			34.5	ns	0.2	ns

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

Springlake  
Table 11b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 2 entries in the Southwestern Regional White Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
TX1674-1W/Y	21.5	16.2	5.3	0.0	0.0	74.7	3.9	1.061	13.4	Oblong	White
Yukon Gold	56.8	31.3	25.5	0.0	0.0	38.2	4.9	1.059	13.0	Oblong	White
Average	39.2	23.7	15.4	0.0	0.0	56.5	4.4	1.060	13.2		
L.S.D. (.05)	11.2	ns	15.6			15.4	ns	ns	ns		

Springlake  
Table 11c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 2 entries in the Southwestern Regional White Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
TX1674-1W/Y	8.8	1.9	2.9	86	100	2.4	3.2	3.6	3.7	11
Yukon Gold	6.3	3.3	1.6	58	79	1.0	3.8	2.6	3.8	35
Average	7.6	2.6	2.3	72	90	1.7	3.5	3.1	3.7	23
L.S.D. (.05)	1.5	0.4	1.0	22	15	0.8	1.2	ns	ns	ns

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

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

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

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

Springlake  
Table 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 2 entries in the Southwestern Regional White Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	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
TX1674-1W/Y	3.0	3.8	2.5	4.5	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Yukon Gold	2.6	3.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	2.8	3.4	1.8	4.5	1.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)	0.1	0.1	0.1	ns	0.1	ns	ns	ns	ns	ns	ns	ns	ns	ns

<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 2 entries in the Southwestern Regional White Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
TX1674-1W/Y	nice shape and skin	small	3.6, 3.4, 3.5, 3.5	3.3, 3.6, 3.6, 3.6
Yukon Gold	very nice, BOT	nice	4, 3.7, 3.6, 3.8	4, 4, 3.5, 4

Springlake  
Table 11f.

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 2 entries in the Southwestern Regional White Yellow Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
TX1674-1W/Y	1.061	13.4	3.5	3	131/48	34 vas, 11 dark, 2 bruise, BOT	0%	0%
Yukon Gold	1.059	13.0	3.9	3	48/64	61 vas, 2 zc, 1 dark	2%	0%

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

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

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

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

Springlake  
Table 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 Chip Selection and Commercial Variety Trial grown near Springlake, Texas-2010.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Under 1 in.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
		Total Yield	1-2 in.	2-3 in.	Over 3 in.				
FL1867	269.1	256.3	21.3	190.3	44.8	5.9	6.9	3.6	4.3
FL2053	184.4	168.4	13.0	134.8	20.6	5.7	10.4	3.0	2.3
FL2048	181.3	166.5	12.8	106.1	47.5	4.5	10.4	3.5	3.4
Atlantic	175.8	161.4	17.5	122.4	21.6	7.4	6.9	3.3	3.1
FL1833	163.5	122.7	25.2	97.5	0.0	11.4	29.4	3.3	3.2
Snowden	115.5	106.1	32.5	70.7	2.9	9.3	0.0	3.3	3.7
FL1922	112.5	100.1	16.8	78.5	4.8	3.8	8.6	2.5	3.2
COTX90046-1W	67.6	55.3	9.0	45.1	1.2	3.6	8.6	2.5	2.8
Chipeta	31.6	24.0	9.0	15.0	0.0	5.9	1.7	2.5	2.8
Average	144.6	129.0	17.4	95.6	15.9	6.4	9.2	3.1	3.2
L.S.D. (.05)	32.8	38.0	10.4	31.2	15.8	4.1	8.2	0.0	0.4

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

Springlake  
Table 12b.

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 Chip Selection and Commercial Variety Trial grown near Springlake, Texas-2010.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight				Tuber Type	Skin Type
	Total Yield	1-2 in.	2-3 in.	Over 3 in.	Under 1 in.	Culls/ No. 2	Specific Gravity	% Solids		
FL1867	95.3	7.8	71.0	16.5	2.1	2.6	1.059	13.0	Oblong	White
FL2053	89.4	6.7	72.9	9.8	3.2	7.4	1.060	13.3	Oblong	White
FL2048	91.9	7.2	59.2	25.6	2.5	5.6	1.055	12.3	Oblong	White
Atlantic	91.3	10.4	69.9	11.0	4.6	4.2	1.056	12.5	Round	Buff
FL1833	75.4	15.3	60.2	0.0	6.8	17.8	1.043	10.1	Oblong	White
Snowden	91.8	29.8	59.4	2.6	8.2	0.0	1.048	11.1	Round	White
FL1922	88.6	14.4	69.8	4.4	3.4	8.1	1.046	10.7	Oblong	White
COTX90046-1W	81.6	11.4	66.6	3.6	4.7	13.7	1.043	10.2	Oblong	White
Chipeta	75.3	32.9	42.4	0.0	21.4	3.4	1.034	8.6	Round	White
Average	86.7	15.1	63.5	8.2	6.3	7.0	1.049	11.3		
L.S.D. (.05)	8.2	10.6	12.4	8.1	4.8	4.2	0.008	1.6		



Springlake  
Table 12c.

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 Chip Selection and Commercial Variety Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
FL1867	6.0	3.7	1.9	92	98	1.6	4.5	2.8	4.5	44
FL2053	5.3	2.9	1.6	69	91	1.5	4.0	3.1	4.4	34
FL2048	4.8	3.8	1.2	62	79	1.5	4.1	4.3	4.2	5
Atlantic	6.3	2.8	1.4	70	82	1.5	4.0	3.8	4.6	15
FL1833	6.3	2.1	1.4	73	96	1.5	4.5	4.7	4.5	0
Snowden	4.7	2.0	2.8	93	100	1.5	4.6	4.7	4.7	0
FL1922	3.2	2.8	1.5	88	98	2.0	3.8	3.4	3.9	30
COTX90046-1W	2.8	2.8	2.0	61	74	1.5	3.4	4.7	3.7	0
Chipeta	1.8	1.3	2.2	88	96	1.5	4.6	5.0	4.7	0
Average	4.6	2.7	1.8	77	91	1.6	4.2	4.1	4.4	14
L.S.D. (.05)	1.7	0.6	0.3	18	15	0.2	0.4	0.5	0.3	13

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

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

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

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

Springlake 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 Chip Selection and Commercial Variety Trial grown near  
 Table 12d. Springlake, Texas-2010.

Variety or Selection	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
FL1867	1.0	3.0	1.0	4.1	1.0	5.0	5.0	5.0	5.0	5.0	8	5	0	0
FL2053	1.0	3.8	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	8	0	20	0
FL2048	1.0	3.7	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	23	0
Atlantic	1.0	2.4	2.0	4.5	2.0	5.0	5.0	5.0	5.0	5.0	0	0	23	0
FL1833	1.5	3.4	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Snowden	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	23	0
FL1922	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	13	0
COTX90046-1W	1.0	3.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	13	0	23	0
Chipeta	1.0	2.3	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	18	0
Average	1.1	3.1	1.1	4.3	1.1	5.0	5.0	5.0	5.0	5.0	3	1	16	0
L.S.D. (.05)	0.0	0.3	0.0	0.1	0.0	ns	ns	ns	ns	ns	ns	ns	ns	ns

<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

Springlake  
Table 12e. 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 Chip Selection and Commercial Variety Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
FL1867	yield+	BOT++, yield+, large tuber, parent	3.6, 3.6, 3.6, 3.6	4.5, 4, 4.5, 4
FL2053	poor shape	poor shape, nice flesh, drop, rough, drop, poor shape, poor internals, poor internals	3, 3, 3, 3	2, 2.5, 2.5, 2
FL2048	large tubers	large tubers, nice internals, BOT-, some internal problems, nice flesh, too long	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.4, 3.3
Atlantic	nice shape	yield+, sticky stolon, poor internals, bad rep	3.3, 3.3, 3.3, 3.3	3, 3.5, 3.7, 2
FL1833	heavy set, small	Rhizoctonia, sticky stolon, sticky stolon, rough, nice internals	3.3, 3.3, 3.3, 3.3	3, 3.3, 3.3, 3
Snowden	nice	heat sprouts, sticky stolon, parent	3.3, 3.3, 3.3, 3.3	3.5, 4, 3.6, 3.5
FL1922	yield-, drop	nice flesh, poor shape, oblong	2.5, 2.5, 2.5, 2.5	3.2, 3, 3.5, 3
COTX90046-1W	yield-, drop	yield-, Rhizoctonia, poor internals, drop?	2.5, 2.5, 2.5, 2.5	3, 2.7, 3, 2.5
Chipeta	yield-, drop	sticky stolon, late, drop	2.5, 2.5, 2.5, 2.5	2.5, 2.5, 3.5, 2.5

Springlake  
Table 12f.

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 Chip Selection and Commercial Variety Trial grown near Springlake, Texas-2010.

Variety or Selection	Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
FL1867	1.059	13.0	4.3	1	29/86	2 dark	7%	0%
FL2053	1.060	13.3	2.3	1	18/20	3 dark	0%	0%
FL2048	1.055	12.3	3.4	1	4/35	2 dark, 1 BC	3%	0%
Atlantic	1.056	12.5	3.1	1	3/97	17 dark	4%	23%
FL1833	1.043	10.1	3.2	2	14/27	BOT	0%	10%
Snowden	1.048	11.1	3.7	3	5/33	2 dark, 8 BC	16%	5%
FL1922	1.046	10.7	3.2	2	16/24	3 dark	0%	0%
COTX90046-1W	1.043	10.2	2.8	3	0/38	16 dark	8%	8%
Chipeta	1.034	8.6	2.8	3	0/40	7 dark	3%	10%
Average	1.049	11.3	3.2	2			4%	6%
L.S.D. (.05)								14%

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

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

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

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

Springlake  
Table 13a.

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 Texas  
Advanced Chip Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Under 1 in.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
		Total Yield	1-2 in.	2-3 in.	Over 3 in.				
ATTX03474-1W	281.0	264.2	63.4	175.6	25.2	6.5	10.4	4.0	3.7
NY138	253.6	248.1	51.5	158.2	38.4	5.5	0.0	4.0	3.9
AOTX95295-1W	219.0	199.8	80.0	116.2	3.6	10.6	8.6	3.0	3.5
AOTX95309-3W	216.8	188.9	75.1	105.1	8.6	21.0	6.9	3.0	3.6
NDTX059997-2W	209.2	197.7	57.6	117.3	22.8	6.2	5.2	4.0	3.7
ATTX03446-4W	202.1	190.9	53.5	135.5	1.9	9.4	1.7	3.1	3.4
COTX03303-1W	190.8	176.1	74.2	95.2	6.7	6.1	8.6	3.0	3.4
King Harry	180.1	147.3	63.4	83.8	0.0	8.6	24.2	4.0	3.5
TX03196-1W	177.6	156.5	88.5	64.2	3.8	19.4	1.7	2.0	3.5
Atlantic	172.5	153.7	60.0	73.8	19.9	13.7	5.2	4.0	3.5
COTX02377-1W	161.8	148.3	54.5	85.0	8.8	8.3	5.2	3.0	3.4
Prince Hairy	158.3	127.4	58.4	67.9	1.0	13.7	17.3	3.0	3.2
NDTX059828-2W	143.1	127.5	65.0	62.5	0.0	12.2	3.5	2.0	3.1
ATX85404-8W	140.7	124.1	55.7	65.5	2.9	9.7	6.9	3.0	3.2
NDTX059997-6W	138.3	123.8	37.0	86.8	0.0	9.3	5.2	3.0	3.5
TX05249-11W	130.0	115.5	53.1	62.4	0.0	9.3	5.2	3.0	3.4
ATTX03474-3W	129.3	111.7	51.5	60.2	0.0	12.4	5.2	3.0	2.7
NDTX059997-7W	120.9	95.2	69.4	25.8	0.0	13.6	12.1	3.0	3.2
TX05249-3W	108.0	94.9	42.9	49.6	2.4	8.0	5.2	3.0	3.4
COTX03270-1W	106.8	101.1	56.5	44.6	0.0	5.7	0.0	3.0	3.0
TX05249-5W	106.7	94.5	67.8	26.7	0.0	12.2	0.0	2.0	2.9
NDTX059632-1W	99.4	67.8	45.3	22.5	0.0	23.0	8.6	2.0	2.7
ATTX03476-2W	88.5	75.0	37.9	37.2	0.0	4.8	8.6	3.0	3.7
NDTX059979-1W	85.0	62.4	40.8	21.6	0.0	17.5	5.2	3.0	2.9
TX1673-1W	70.4	58.4	38.0	20.4	0.0	8.5	3.5	2.0	3.0
ATTX98466-5R/W-R	56.2	39.6	33.9	5.7	0.0	16.6	0.0	3.0	2.9
TX05249-10W	45.6	40.6	10.4	30.2	0.0	1.6	3.5	2.0	3.1
Average	155.6	138.0	57.6	74.5	5.8	11.0	6.6	3.0	3.3
L.S.D. (.05)	25.6	27.1	23.5	26.9	14.7	7.5	8.8	0.1	0.7

<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 27 entries in the Texas  
Advanced Chip Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight		Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	1-2 in.	2-3 in.	Over 3 in.	Under 1 in.	Culls/ No. 2				
ATTX03474-1W	94.0	22.4	62.6	9.0	2.3	3.7	1.045	10.6	Oblong	White
NY138	97.8	20.7	62.3	14.8	2.2	0.0	1.053	11.9	Round	White
AOTX95295-1W	91.6	36.1	54.0	1.5	4.7	3.7	1.056	12.5	Round	White
AOTX95309-3W	87.4	35.9	47.5	3.9	9.6	3.0	1.048	11.2	Round	White
NDTX059997-2W	94.4	27.8	55.5	11.0	2.9	2.7	1.050	11.4	Round	White
ATTX03446-4W	94.4	26.7	67.0	0.8	4.6	1.0	1.051	11.6	Round	White
COTX03303-1W	92.5	39.0	50.2	3.4	3.1	4.4	1.059	13.0	Oblong	White
King Harry	81.1	37.1	43.9	0.0	5.0	14.0	1.052	11.8	Oblong	White
TX03196-1W	87.9	50.4	35.7	1.9	11.3	0.8	1.034	8.6	Round	White
Atlantic	88.2	36.6	41.9	9.7	9.0	2.8	1.054	12.2	Round	Buff
COTX02377-1W	91.9	36.7	50.9	4.3	5.0	3.1	1.048	11.0	Round	White
Prince Hairy	80.4	37.4	42.3	0.6	8.7	10.9	1.047	10.9	Oblong	White
NDTX059828-2W	88.9	46.0	42.9	0.0	8.7	2.4	1.039	9.5	Round	White
ATX85404-8W	88.3	39.3	47.2	1.8	6.6	5.0	1.045	10.6	Round	White
NDTX059997-6W	89.5	26.9	62.7	0.0	6.9	3.6	1.055	12.4	Round	White
TX05249-11W	87.7	39.1	48.6	0.0	7.2	5.1	1.048	11.1	Round	White
ATTX03474-3W	86.0	39.9	46.1	0.0	10.2	3.8	1.041	9.8	Oblong	White
NDTX059997-7W	78.3	57.1	21.3	0.0	11.4	10.3	1.042	10.1	Round	White
TX05249-3W	87.9	43.0	43.4	1.5	8.4	3.6	1.035	8.8	Round	White
COTX03270-1W	93.9	53.9	40.0	0.0	6.1	0.0	1.053	12.0	Oblong	White
TX05249-5W	89.3	63.8	25.6	0.0	10.7	0.0	1.048	11.1	Round	White
NDTX059632-1W	67.4	45.5	21.8	0.0	24.2	8.5	1.047	10.9	Round	White
ATTX03476-2W	83.7	41.4	42.3	0.0	5.9	10.4	1.033	8.3	Round	White
NDTX059979-1W	72.3	47.8	24.5	0.0	21.0	6.7	1.059	13.1	Round	White
TX1673-1W	83.5	55.8	27.8	0.0	12.1	4.4	1.034	8.6	Oblong	White
ATTX98466-5R/W-R	71.0	59.6	11.4	0.0	29.0	0.0	1.054	12.1	Round	White
TX05249-10W	91.1	23.0	68.1	0.0	2.7	6.2	1.043	10.2	Round	White
Average	87.1	40.2	44.3	2.6	8.3	4.5	1.047	10.9		
L.S.D. (.05)	9.6	15.9	153.0	6.8	6.7	6.4	0.009	1.6		

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Table 13c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 27 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
ATTX03474-1W	7.0	3.2	1.8	96	100	2.0	4.1	3.8	4.5	11
NY138	5.7	3.9	1.5	77	93	1.6	3.7	3.5	3.8	11
AOTX95295-1W	6.5	2.8	2.1	90	98	1.5	4.4	4.6	4.6	3
AOTX95309-3W	7.4	2.3	2.7	98	100	1.6	4.4	4.4	4.7	6
NDTX059997-2W	5.1	3.6	2.0	95	97	2.0	3.0	1.6	3.3	74
ATTX03446-4W	6.2	2.8	1.2	77	95	2.0	3.8	3.3	4.1	16
COTX03303-1W	5.2	3.2	1.7	94	93	1.8	4.2	4.1	4.3	5
King Harry	5.0	2.6	1.8	88	100	1.8	3.8	2.7	4.5	33
TX03196-1W	7.1	2.1	3.6	87	100	2.0	3.3	2.4	3.5	34
Atlantic	5.6	2.9	1.7	84	93	1.8	4.4	4.0	4.7	15
COTX02377-1W	4.8	2.9	1.8	82	95	2.0	3.7	3.3	3.8	16
Prince Hairy	8.5	2.4	1.6	50	64	1.6	3.7	4.1	3.8	23
NDTX059828-2W	5.9	2.1	2.6	88	96	2.0	3.1	2.5	3.3	31
ATX85404-8W	5.1	2.6	1.6	67	86	1.5	3.9	4.9	4.0	0
NDTX059997-6W	6.2	2.6	1.3	77	86	1.8	3.7	3.3	3.8	38
TX05249-11W	4.5	2.5	2.2	81	92	1.8	3.6	4.7	3.7	3
ATTX03474-3W	4.4	2.3	1.4	99	100	1.8	4.5	4.5	4.7	5
NDTX059997-7W	5.3	2.0	2.1	79	91	2.1	3.1	2.8	3.3	41
TX05249-3W	3.8	2.3	1.7	85	95	1.9	2.4	3.6	2.8	11
COTX03270-1W	4.5	2.2	1.8	77	88	2.0	3.3	3.4	3.5	16
TX05249-5W	5.4	1.9	1.9	73	88	1.5	4.0	4.8	4.1	0
NDTX059632-1W	6.7	1.3	2.4	71	88	2.0	3.1	3.9	3.6	8
ATTX03476-2W	2.4	2.9	1.7	91	100	1.5	4.5	5.0	4.5	0
NDTX059979-1W	4.4	1.8	2.4	80	93	2.0	3.7	3.8	3.7	10
TX1673-1W	4.1	1.8	1.9	70	82	2.0	3.7	4.0	3.9	9
ATTX98466-5R/W-R	4.2	1.2	5.9	87	100	2.1	3.2	2.0	3.4	60
TX05249-10W	3.6	3.7	1.4	43	46	1.5	1.7	4.0	2.0	6
Average	5.5	2.5	2.0	82	92	1.8	3.7	3.7	3.9	17
L.S.D. (.05)	2.1	0.7	0.8	18	16	0.3	0.6	4.0	0.6	23

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

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

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

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

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Table 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 27 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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
ATTX03474-1W	1.0	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	18	0
NY138	1.0	2.6	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
AOTX95295-1W	1.0	2.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX95309-3W	1.0	2.3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059997-2W	1.0	1.4	1.0	2.9	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
ATTX03446-4W	1.0	3.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX03303-1W	1.0	3.3	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	8	0	5	0
King Harry	1.0	2.9	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	8	0	13	0
TX03196-1W	1.0	2.4	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Atlantic	1.0	2.8	1.0	4.5	1.8	5.0	5.0	5.0	5.0	5.0	0	0	13	0
COTX02377-1W	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Prince Hairy	1.0	3.0	1.0	2.0	1.0	5.0	5.0	5.0	5.0	5.0	0	3	0	0
NDTX059828-2W	1.0	1.5	1.0	4.4	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
ATX85404-8W	1.0	2.3	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059997-6W	1.0	1.5	1.5	4.3	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX05249-11W	1.0	2.6	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
ATTX03474-3W	1.0	2.8	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
NDTX059997-7W	1.0	1.8	1.5	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	10	0
TX05249-3W	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	8	0
COTX03270-1W	1.0	3.4	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
TX05249-5W	1.0	1.1	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	18	0
NDTX059632-1W	1.0	1.6	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	8	0
ATTX03476-2W	1.0	2.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	13	0
NDTX059979-1W	1.0	2.4	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	5	0
TX1673-1W	1.0	3.4	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	10	0
ATTX98466-5R/W-R	2.5	1.9	1.0	4.5	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX05249-10W	1.0	2.3	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	1.1	2.3	1.0	4.3	1.1	5.0	5.0	5.0	5.0	5.0	1	0	5	0
L.S.D. (.05)	0.0	0.4	ns	1.0	0.1	ns	ns	ns	ns	ns	4	ns	11	ns

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

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

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

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

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

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

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

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

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

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

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



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Table 13e.

Notes and general rating for all reps of 27 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
ATTX03474-1W	yield+	parent, sticky stolon, BOT, nice internals, shape?	4, 4, 4, 4	3.7, 3.8, 3.6, 3.5
NY138	nice shape	yield+, BOT++	4, 4, 4, 4	4, 4, 3.6, 4
AOTX95295-1W	poor shape	, rough, sticky stolon	3, 3, 3, 3	3.7, 3.4, 3.6, 3.2
AOTX95309-3W	yield-	nice, Co increase, BOT, heavy set	3, 3, 3, 3	3.7, 3.5, 3.6, 3.5
NDTX059997-2W	yield+, BOT	deep eyes, parent, TC, deep belly button, BOT	4, 4, 4, 4	3.6, 3.6, 3.7, 3.8
ATTX03446-4W	small	nice, nice internals	3.1, 3.1, 3.1, 3.1	3.6, 3.4, 3.5, 3
COTX03303-1W	oblong	nice interior	3, 3, 3, 3	3.4, 3.2, 3.4, 3.4
King Harry	some rot, heavy set	sticky stolon	4, 4, 4, 4	3.8, 3.3, 3.5, 3.5
TX03196-1W	drop	heavy set	2, 2, 2, 2	3.3, 3.4, 3.5, 3.6
Atlantic	nice shape	large tubers, sticky stolon, parent,	4, 4, 4, 4	3.7, 3.6, 3.4, 3.3
COTX02377-1W	yield-	deep nose, shape-, Rhizoctonia	3, 3, 3, 3	3.5, 3.2, 3.2, 3.6
Prince Hairy	yield-	deep eyes, heat sprouts, drop+	3, 3, 3, 3	3.2, 3.3, 3.2, 3
NDTX059828-2W	drop	nice flesh	2, 2, 2, 2	3.2, 3.2, 3, 3
ATX85404-8W	yield-	, heat sprouts, sticky stolon	3, 3, 3, 3	3, 3.2, 3.2, 3.2
NDTX059997-6W	nice shape	poor internals, light set, heat sprouts	3, 3, 3, 3	3.2, 3.7, 3.2, 3.7
TX05249-11W	yield-	sticky stolon	3, 3, 3, 3	3.6, 3.3, 3.5, 3
ATTX03474-3W	small	sticky stolon	3, 3, 3, 3	3.2, 3, 2.2, 2.2
NDTX059997-7W	small, yield-, heat sprouts	heat sprouts, drop	3, 3, 3, 3	3.3, 3.2, 3.3, 2.8
TX05249-3W	yield-		3, 3, 3, 3	3.4, 3.4, 3.4, 3.3
COTX03270-1W	small	heat sprouts, yield-, small	3, 3, 3, 3	3.2, 3, 3.1, 2.8
TX05249-5W	drop	heavy set, sticky stolon, drop	2, 2, 2, 2	3.2, 2.6, 2.9, 2.8
NDTX059632-1W	small, drop	small, drop	2, 2, 2, 2	3.1, 2.5, 2.5, 2.6
ATTX03476-2W	yield-	sticky stolon, BOT, sticky stolon, some rough	3, 3, 3, 3	3.6, 3.8, 3.8, 3.7
NDTX059979-1W	small	heat sprouts, rough, small, sticky stolon, Rhizoctonia	3, 3, 3, 3	3, 2.8, 2.8, 2.8
TX1673-1W	drop	drop	2, 2, 2, 2	3, 3, 3, 2.8
ATTX98466-5R/W-R	small	, heat sprouts, light red streak in flesh	3, 3, 3, 3	3, 2.8, 2.8, 2.8
TX05249-10W	drop	, yield-, sticky stolon	2, 2, 2, 2	3.2, 3, 3, 3

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Table 13f.

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 27 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
ATTX03474-1W	1.045	10.6	3.7	1	16/25		0%	0%
NY138	1.053	11.9	3.9	1	43/73	6 Dark	1%	0%
AOTX95295-1W	1.056	12.5	3.5					5%
AOTX95309-3W	1.048	11.2	3.6					5%
NDTX059997-2W	1.050	11.4	3.7	1	38/3	BOT	0%	0%
ATTX03446-4W	1.051	11.6	3.4	1	36/4	1 HH, BOT	0%	3%
COTX03303-1W	1.059	13.0	3.4	2	2/38	1 HH	10%	5%
King Harry	1.052	11.8	3.5					0%
TX03196-1W	1.034	8.6	3.5	2	39/95	35 Dark	13%	0%
Atlantic	1.054	12.2	3.5	1	3/97	17 Dark	4%	13%
COTX02377-1W	1.048	11.0	3.4					0%
Prince Hairy	1.047	10.9	3.2	2	13/26	6 BC, 9 Dark	5%	8%
NDTX059828-2W	1.039	9.5	3.1	1+	22/54	2 Dark	4%	0%
ATX85404-8W	1.045	10.6	3.2					8%
NDTX059997-6W	1.055	12.4	3.5					15%
TX05249-11W	1.048	11.1	3.4	1+	13/71		2%	0%
ATTX03474-3W	1.041	9.8	2.7	1	1/42		5%	13%
NDTX059997-7W	1.042	10.1	3.2					0%
TX05249-3W	1.035	8.8	3.4	2	2/78	4 Dark	6%	5%
COTX03270-1W	1.053	12.0	3.0					3%
TX05249-5W	1.048	11.1	2.9					10%
NDTX059632-1W	1.047	10.9	2.7					0%
ATTX03476-2W	1.033	8.3	3.7	2	0/39	5 Dark	5%	3%
NDTX059979-1W	1.059	13.1	2.9					0%
TX1673-1W	1.034	8.6	3.0					0%
ATTX98466-5R/W-R	1.054	12.1	2.9					0%
TX05249-10W	1.043	10.2	3.1	2	0/20	1 Dark	25%	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

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 Russet Selection (Colorado Source) Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
Russet Norkotah278	157.6	127.2	45.3	74.0	8.0	0.0	14.5	15.9	3.5
TXA549-1RU	157.0	116.2	48.4	52.5	15.2	0.0	33.7	7.1	3.9
Russet Norkotah	134.0	104.4	47.9	56.5	0.0	0.0	19.4	10.2	3.4
ATX91137-1RU	122.7	89.7	44.4	45.3	0.0	0.0	21.6	11.4	3.3
ATX9202-3RU	117.7	71.9	49.8	22.1	0.0	0.0	36.0	9.9	2.7
AOTX96075-1RU	105.4	72.8	38.0	34.7	0.0	0.0	22.6	10.0	3.0
Average	132.4	97.0	45.6	47.5	3.9	0.0	24.6	10.7	3.3
L.S.D. (.05)	22.2	22.6	ns	17.7	ns		11.7	ns	0.2

<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 Russet Selection (Colorado Source) Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
Russet Norkotah278	80.9	28.7	48.0	4.2	0.0	9.2	9.9	1.054	12.1	Long	Russet
TXA549-1RU	73.0	28.9	34.6	9.5	0.0	22.4	4.6	1.060	13.2	Oblong	Russet
Russet Norkotah	77.6	34.7	42.9	0.0	0.0	14.6	7.8	1.055	12.3	Long	Russet
ATX91137-1RU	72.9	37.3	35.7	0.0	0.0	17.8	9.2	1.043	10.2	Oblong	Russet
ATX9202-3RU	59.5	41.7	17.7	0.0	0.0	32.1	8.5	1.052	11.7	Oblong	Russet
AOTX96075-1RU	67.4	36.5	30.9	0.0	0.0	23.1	9.4	1.053	12.0	Long	Russet
Average	71.9	34.6	35.0	2.3	0.0	19.9	8.2	1.053	11.9		
L.S.D. (.05)	11.8	ns	15.9	ns		9.6	ns	0.007	1.2		

Springlake  
Table 14c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 6 entries in the Texas Advanced Russet Selection (Colorado Source) Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
Russet Norkotah278	2.9	4.1	2.7	96	100	1.5	4.3	3.4	4.4	46
TXA549-1RU	4.5	3.4	2.8	66	81	2.1	3.6	2.9	3.8	58
Russet Norkotah	2.8	3.8	1.9	87	96	1.9	3.5	1.9	3.7	80
ATX91137-1RU	3.0	3.6	1.5	69	88	1.5	3.5	2.3	3.7	71
ATX9202-3RU	3.2	3.2	1.4	76	90	1.5	3.8	2.2	3.9	75
AOTX96075-1RU	2.6	3.1	2.0	92	100	1.5	3.4	2.6	3.6	68
Average	3.1	3.5	2.1	81	93	1.7	3.7	2.5	3.8	66
L.S.D. (.05)	0.6	0.6	0.6	14	ns	0.2	0.5	0.7	0.4	19

<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 Russet Selection (Colorado Source) Trial grown near Springlake, Texas-2010.

Variety or Selection	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
Russet Norkotah278	1.0	4.5	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
TXA549-1RU	1.0	3.6	4.5	4.5	4.0	5.0	5.0	5.0	5.0	5.0	20	0	20	0
Russet Norkotah	1.0	4.4	4.0	3.7	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX91137-1RU	1.0	3.7	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX9202-3RU	1.0	3.7	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX96075-1RU	1.0	4.0	4.4	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
Average	1.0	4.0	4.1	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	5	0
L.S.D. (.05)	ns	0.2	0.2	0.1	ns	ns	ns	ns	ns	ns	9	ns	ns	ns

<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 Russet Selection (Colorado Source) Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
Russet Norkotah278	yield+, , nice flesh,	3.6, 3.6, 3.4, 3.4
TXA549-1RU	hollow heart, BOT, , very nice, blocky,	4, 3.7, 4, 3.9
Russet Norkotah	, small, 30% rot, , 20% rot	3.4, 3.4, 3.5, 3.4
ATX91137-1RU	raised eyes, , 10% rot, blocky, sticky stolon, 10% bruise	3.2, 3.4, 3.4, 3.3
ATX9202-3RU	sticky stolon, , ,	2.8, 2.5, 2.8, 2.8
AOTX96075-1RU	small, rough, curved, drop, , ,	2.8, 3.2, 3, 2.8

Springlake  
Table 14f.

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 6 entries in the Texas Advanced Russet Selection (Colorado Source) Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	General Rating <sup>1</sup>	Tuber Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
Russet Norkotah278	1.054	12.1	3.5					5%
TXA549-1RU	1.060	13.2	3.9					3%
Russet Norkotah	1.055	12.3	3.4					8%
ATX91137-1RU	1.043	10.2	3.3					20%
ATX9202-3RU	1.052	11.7	2.7					33%
AOTX96075-1RU	1.053	12.0	3.0					8%
Average	1.053	11.9	3.3					13%
L.S.D. (.05)	0.007	1.2	0.2					12%

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

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

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

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



Springlake  
Table 15a. 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 Texas Advanced Russet Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
COTX05095-1Ru	257.4	198.8	49.8	102.5	46.5	0.0	23.0	35.6	3.8
ATX03475-10Ru	198.1	120.0	72.3	38.4	9.3	0.0	67.1	11.1	3.7
AOTX02060-1Ru	193.3	124.1	67.2	54.8	2.1	0.0	43.6	25.6	3.7
COTX06221-1Ru	179.3	97.2	25.9	49.3	22.0	0.0	38.4	43.7	2.6
ATX97147-4Ru	173.2	114.3	39.6	68.1	6.6	0.0	32.7	26.3	3.2
AOTX98096-1Ru	170.2	118.7	52.9	52.0	13.7	0.0	34.7	16.8	3.4
ATX99194-3Ru	167.3	101.6	71.9	29.7	0.0	0.0	52.5	13.1	3.3
AOTX98202-1Ru	163.0	114.6	58.9	55.7	0.0	0.0	35.8	12.6	3.4
Stampede Russet	157.3	105.8	33.9	51.5	20.4	0.0	43.6	8.0	3.3
ATX99013-1Ru	125.0	63.8	33.7	30.1	0.0	0.0	31.8	29.4	3.3
AOTX95265-3Ru	122.9	86.3	39.6	46.7	0.0	0.0	19.7	16.9	3.1
TXNS410	119.3	66.2	35.3	30.9	0.0	0.0	41.5	11.7	3.5
ATX84378-6Ru	118.8	74.2	37.3	34.1	2.8	0.0	26.4	18.2	3.2
AOTX95265-4Ru	116.3	55.0	27.7	27.3	0.0	0.0	50.1	11.2	3.4
AOTX06026-1Ru	108.6	73.6	39.8	33.9	0.0	0.0	27.7	7.3	2.5
AOTX96208-1Ru	100.3	59.5	41.0	18.5	0.0	0.0	18.7	22.1	3.0
Russet Norkotah	97.3	40.4	30.6	9.9	0.0	0.0	37.3	19.5	2.9
TXNS551	88.7	56.7	35.1	21.6	0.0	0.0	23.0	9.0	3.0
ATX05142-2Ru	43.4	12.4	12.4	0.0	0.0	0.0	16.4	14.5	2.4
Average	142.1	88.6	42.4	39.7	6.5	0.0	34.9	18.6	3.2
L.S.D. (.05)	32.8	33.5	24.1	24.9	15.1		14.7	12.7	1.0

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

Springlake  
Table 15b.

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 Texas Advanced Russet Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
COTX05095-1Ru	76.6	19.7	40.1	16.8	0.0	9.3	14.1	1.058	12.9	Long	Russet
ATTX03475-10Ru	58.5	33.7	21.2	3.6	0.0	34.6	6.9	1.048	11.1	Long	Russet
AOTX02060-1Ru	64.1	34.3	29.0	0.9	0.0	22.9	13.0	1.060	13.1	Long	Russet
COTX06221-1Ru	53.9	15.2	27.0	11.8	0.0	21.4	24.7	1.034	8.5	Long	Russet
ATX97147-4Ru	66.2	22.9	39.5	3.8	0.0	18.8	15.0	1.048	11.1	Long	Russet
AOTX98096-1Ru	69.3	30.7	30.9	7.6	0.0	20.4	10.3	1.058	12.9	Long	Russet
ATX99194-3Ru	59.9	42.5	17.4	0.0	0.0	32.2	7.8	1.056	12.6	Oblong	Russet
AOTX98202-1Ru	70.0	36.9	33.1	0.0	0.0	22.2	7.8	1.058	12.8	Long	Russet
Stampede Russet	67.5	21.3	32.8	13.5	0.0	27.1	5.4	1.043	10.2	Oblong	Russet
ATX99013-1Ru	51.2	28.3	22.9	0.0	0.0	24.9	23.9	1.053	12.0	Oblong	Russet
AOTX95265-3Ru	68.6	31.3	37.3	0.0	0.0	16.7	14.7	1.058	12.9	Long	Russet
TXNS410	51.9	29.3	22.6	0.0	0.0	36.0	12.2	1.058	12.8	Oblong	Russet
ATX84378-6Ru	62.8	31.2	29.5	2.1	0.0	22.7	14.6	1.048	11.0	Oblong	Russet
AOTX95265-4Ru	47.0	25.4	21.6	0.0	0.0	43.9	9.1	1.048	11.1	Oblong	Russet
AOTX06026-1Ru	64.1	38.7	25.4	0.0	0.0	29.0	6.8	1.060	13.3	Oblong	Russet
AOTX96208-1Ru	57.1	38.4	18.7	0.0	0.0	20.3	22.6	1.051	11.6	Long	Russet
Russet Norkotah	43.2	32.5	10.7	0.0	0.0	39.2	17.6	1.047	10.9	Oblong	Russet
TXNS551	63.5	39.8	23.7	0.0	0.0	25.7	10.8	1.056	12.5	Oblong	Russet
ATX05142-2Ru	17.1	17.1	0.0	0.0	0.0	47.5	35.4	1.065	14.0	Long	Russet
Average	58.6	30.0	25.4	3.2	0.0	27.1	14.3	1.053	12.0		
L.S.D. (.05)	15.9	14.6	18.7	6.3		10.8	10.1	0.007	1.5		

Springlake  
Table 15c.

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 19 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
COTX05095-1Ru	3.5	5.2	2.4	99	100	1.8	3.9	3.1	3.8	50
ATTX03475-10Ru	5.1	3.5	2.3	70	86	1.5	3.8	3.5	3.9	20
AOTX02060-1Ru	3.7	3.8	2.2	92	100	2.0	3.9	1.9	3.9	75
COTX06221-1Ru	3.4	3.5	2.2	98	100	1.5	4.4	3.6	4.6	33
ATX97147-4Ru	3.1	3.9	2.4	94	100	1.6	4.1	3.0	4.1	43
AOTX98096-1Ru	3.3	3.9	2.5	95	100	2.3	3.3	2.3	3.6	68
ATX99194-3Ru	3.7	3.8	2.2	83	93	1.5	3.1	3.1	3.2	53
AOTX98202-1Ru	3.3	3.9	1.7	94	98	1.9	3.8	3.0	3.7	45
Stampede Russet	3.3	3.9	2.5	80	96	1.5	3.8	3.2	3.5	35
ATX99013-1Ru	2.3	3.6	2.2	91	96	1.6	3.8	3.0	3.8	48
AOTX95265-3Ru	2.2	3.9	2.4	96	100	1.6	3.6	3.0	3.6	56
TXNS410	2.7	3.2	2.8	96	99	1.8	3.0	3.0	3.3	44
ATX84378-6Ru	2.5	3.5	1.9	90	100	1.5	3.9	3.5	3.7	34
AOTX95265-4Ru	4.0	2.2	2.7	94	100	2.4	3.5	2.5	3.6	56
AOTX06026-1Ru	2.5	3.5	1.4	84	96	1.5	3.9	4.0	4.0	13
AOTX96208-1Ru	2.0	3.4	2.1	100	100	1.5	3.5	2.6	3.6	55
Russet Norkotah	2.4	2.9	2.5	90	98	1.9	3.3	2.0	3.4	79
TXNS551	1.7	3.7	3.1	97	98	1.6	3.0	2.7	3.2	48
ATX05142-2Ru	1.2	1.8	2.2	90	100	1.8	4.1	2.4	3.9	59
Average	2.9	3.5	2.3	91	98	1.7	3.7	2.9	3.7	48
L.S.D. (.05)	0.8	0.7	0.5	13	7	0.3	0.4	0.7	0.4	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>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 15d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 19 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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
COTX05095-1Ru	1.0	4.7	3.0	3.7	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	8
ATTX03475-10Ru	1.0	4.0	4.7	4.0	4.2	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX02060-1Ru	1.0	4.0	4.0	4.0	4.2	5.0	5.0	5.0	5.0	5.0	0	0	10	0
COTX06221-1Ru	1.0	4.0	2.5	3.0	2.5	5.0	5.0	5.0	5.0	5.0	0	0	8	0
ATX97147-4Ru	1.0	4.0	4.0	4.2	3.5	5.0	5.0	5.0	5.0	5.0	0	0	8	0
AOTX98096-1Ru	1.0	3.8	3.8	3.2	3.9	5.0	5.0	5.0	5.0	5.0	13	0	8	0
ATX99194-3Ru	1.0	3.5	3.5	4.1	3.7	5.0	5.0	5.0	5.0	5.0	3	0	8	0
AOTX98202-1Ru	1.0	4.0	3.4	4.4	3.4	5.0	5.0	5.0	5.0	5.0	3	0	8	0
Stampede Russet	1.0	3.8	4.5	4.2	4.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
ATX99013-1Ru	1.0	3.6	4.5	4.4	4.2	5.0	5.0	5.0	5.0	5.0	3	0	0	0
AOTX95265-3Ru	1.0	4.2	4.4	4.1	3.6	5.0	5.0	5.0	5.0	5.0	0	0	3	0
TXNS410	1.0	3.7	4.0	4.0	4.2	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX84378-6Ru	1.0	3.6	4.0	3.9	4.5	5.0	5.0	5.0	5.0	5.0	0	0	5	0
AOTX95265-4Ru	1.5	3.5	4.0	4.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
AOTX06026-1Ru	1.0	3.9	4.0	4.5	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
AOTX96208-1Ru	1.0	4.0	4.0	4.0	4.2	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Russet Norkotah	1.5	3.8	4.5	3.7	4.1	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXNS551	1.0	3.8	4.0	4.0	4.2	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05142-2Ru	1.0	4.2	4.0	3.8	4.1	5.0	5.0	5.0	5.0	5.0	0	0	5	0
Average	1.1	3.9	3.9	4.0	3.9	5.0	5.0	5.0	5.0	5.0	1	0	4	0
L.S.D. (.05)	0.0	0.1	0.2	0.5	0.4	ns	ns	ns	ns	ns	5	ns	ns	2

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

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

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

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

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

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

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

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

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

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

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

Springlake

Table 15e.

Notes and general rating for all reps of 19 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
COTX05095-1Ru	yield+, poor skin finish, nice flesh, large tubers, pycnidia res., lacks appearance BOT-, parent?	3.8, 3.8, 3.9, 3.7
ATX03475-10Ru	nice, smooth, blocky, nice, smooth, blocky	3.7, 3.7, 3.7, 3.7
AOTX02060-1Ru	BOT	3.5, 3.8, 3.8, 3.6
COTX06221-1Ru	sticky stem, alligator hide, poor shape, drop, light skin, deep eyes, rough	2.3, 3, 2.5, 2.5
ATX97147-4Ru	sticky stolon, rough, light net	3.5, 2.8, 3.5, 3
AOTX98096-1Ru	nice shape, small, blocky, light skin	3.4, 3.4, 3.3, 3.3
ATX99194-3Ru	heat sprout, blocky, small, nice shape	3.3, 3.3, 3.3, 3.3
AOTX98202-1Ru	light net	3.4, 3.4, 3.3, 3.4
Stampede Russet		3, 3.5, 3, 3.5
ATX99013-1Ru	nice flesh, rough, poor shape, bad rep, 60% stem end rot	3, 2.8, 3.6, 3.7
AOTX95265-3Ru	poor shape, nice net, yield-, curved,	2.8, 3.2, 3.2, 3
TXNS410		3.5, 3.5, 3.5, 3.6
ATX84378-6Ru	some rot, blocky, nice flesh,	3, 3.7, 3.2, 3
AOTX95265-4Ru	light yellow flesh?, small, blocky	3.4, 3.5, 3.3, 3.3
AOTX06026-1Ru	blocky, ok shape, blocky, ok shape	2, 2, 3, 3
AOTX96208-1Ru	small, curved	3, 3, 3, 3
Russet Norkotah	small, nice shape, small	2.7, 3, 3, 2.7
TXNS551	nice, small, bad rep	3.5, 3.4, 3.5, 1.5
ATX05142-2Ru	small, bad rep, drop	3, 2.5, 1.5, 2.5

Springlake  
Table 15f.

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 Texas Advanced Russet Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
COTX05095-1Ru	1.058	12.9	3.8	2	5/34	2 dark	15%	20%
ATTX03475-10Ru	1.048	11.1	3.7	2	6/23		0%	40%
AOTX02060-1Ru	1.060	13.1	3.7	1	1/18		0%	10%
COTX06221-1Ru	1.034	8.5	2.6	3	0/38	11 dark	11%	0%
ATX97147-4Ru	1.048	11.1	3.2					20%
AOTX98096-1Ru	1.058	12.9	3.4					0%
ATX99194-3Ru	1.056	12.6	3.3	1	50/18		0%	0%
AOTX98202-1Ru	1.058	12.8	3.4					0%
Stampede Russet	1.043	10.2	3.3					0%
ATX99013-1Ru	1.053	12.0	3.3					0%
AOTX95265-3Ru	1.058	12.9	3.1					0%
TXNS410	1.058	12.8	3.5					0%
ATX84378-6Ru	1.048	11.0	3.2					0%
AOTX95265-4Ru	1.048	11.1	3.4					0%
AOTX06026-1Ru	1.060	13.3	2.5	3	1/19	1 dark	10%	40%
AOTX96208-1Ru	1.051	11.6	3.0					0%
Russet Norkotah	1.047	10.9	2.9					20%
TXNS551	1.056	12.5	3.0					0%
ATX05142-2Ru	1.065	14.0	2.4					10%
Average	1.053	12.0	3.2	2			6%	8%
L.S.D. (.05)	0.007	1.5	1.0					1%

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,

Springlake  
Table 16a. 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 Red Selection (Colorado source) Trial grown near Springlake, Texas-2010.

Variety or Selection	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					
Dark Red Norland	334.7	146.6	123.3	23.3	0.0	0.0	185.1	2.9	3.2	2.9
Red LaSoda	252.1	108.6	72.6	36.0	0.0	0.0	143.6	0.0	3.2	3.4
ATTX88481-1P/W	249.6	124.5	70.1	49.6	4.8	0.0	121.5	3.6	3.3	4.0
NDTX731-1R	199.2	47.3	26.3	21.0	0.0	0.0	151.9	0.0	3.4	3.5
NDTX4784-7R	168.2	39.2	39.2	0.0	0.0	0.0	129.1	0.0	3.1	3.5
ATTX98453-6R	156.5	44.0	44.0	0.0	0.0	0.0	112.5	0.0	2.8	3.8
AOTX01178-1R	89.2	15.0	15.0	0.0	0.0	0.0	74.2	0.0	2.4	3.3
COTX00104-7R	87.3	21.6	21.6	0.0	0.0	0.0	65.7	0.0	2.4	3.0
Average	192.1	68.3	51.5	16.2	0.6	0.0	122.9	0.8	3.0	3.4
L.S.D. (.05)	26.1	27.2	24.5	18.7	ns		21.9	ns	0.5	0.4

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

Springlake  
Table 16b.

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 Red Selection (Colorado source) Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
Dark Red Norland	43.6	36.2	7.3	0.0	0.0	55.6	0.8	1.034	8.5	Oblong	Red
Red LaSoda	42.5	28.7	13.8	0.0	0.0	57.5	0.0	1.036	9.0	Oblong	Red
ATTX88481-1P/W	48.7	27.5	19.5	1.6	0.0	49.9	1.4	1.073	15.6	Oblong	Purple
NDTX731-1R	23.6	13.8	9.8	0.0	0.0	76.4	0.0	1.025	7.0	Round	Red
NDTX4784-7R	21.3	21.3	0.0	0.0	0.0	78.7	0.0	1.030	7.9	Round	Red
ATTX98453-6R	27.9	27.9	0.0	0.0	0.0	72.1	0.0	1.042	9.9	Oblong	Red
AOTX01178-1R	13.7	13.7	0.0	0.0	0.0	86.3	0.0	1.029	7.7	Oblong	Red
COTX00104-7R	22.1	22.1	0.0	0.0	0.0	77.9	0.0	1.029	7.7	Oblong	Red
Average	30.4	23.9	6.3	0.2	0.0	69.3	0.3	1.037	9.2		
L.S.D. (.05)	11.8	12.1	6.6	ns		11.7	ns	0.020	4.4		



Springlake  
Table 16c.

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 Texas Advanced Red Selection (Colorado source) Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
Dark Red Norland	9.7	3.3	3.1	73	89	1.8	3.9	3.2	4.0	18
Red LaSoda	9.6	2.7	2.3	70	82	1.9	4.0	2.7	4.1	26
ATTX88481-1P/W	6.4	3.2	4.1	86	100	3.0	3.3	1.4	3.6	84
NDTX731-1R	10.8	1.7	2.5	78	91	1.5	3.0	2.8	3.1	28
NDTX4784-7R	12.9	1.5	2.1	66	74	1.9	3.5	2.5	3.6	36
ATTX98453-6R	7.5	1.9	1.7	68	91	1.9	3.2	2.6	3.4	40
AOTX01178-1R	5.0	1.6	1.9	72	95	2.0	3.6	3.7	3.5	9
COTX00104-7R	5.2	1.7	2.1	73	87	2.0	3.2	4.6	3.4	0
Average	8.4	2.2	2.5	73	89	2.0	3.5	2.9	3.6	30
L.S.D. (.05)	2.1	0.6	0.5	ns	ns	0.2	0.4	0.8	0.5	13

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

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

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

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

Springlake  
Table 16d. 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 Red Selection (Colorado source) Trial grown near Springlake, Texas-2010.

Variety or Selection	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
Dark Red Norland	1.0	3.5	1.0	2.0	2.5	5.0	5.0	5.0	5.0	4.1	0	0	8	0
Red LaSoda	1.0	3.0	1.0	1.5	3.0	4.8	5.0	5.0	5.0	4.5	0	0	23	0
ATTX88481-1P/W	1.0	4.0	1.0	4.5	4.4	5.0	5.0	5.0	5.0	2.0	0	0	3	0
NDTX731-1R	1.0	2.5	1.0	2.5	3.5	5.0	5.0	5.0	5.0	4.5	0	0	10	0
NDTX4784-7R	1.0	1.5	1.0	3.9	4.0	5.0	5.0	5.0	5.0	4.5	0	0	15	0
ATTX98453-6R	1.0	2.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	4.0	0	0	0	0
AOTX01178-1R	1.0	1.5	1.0	4.5	3.5	5.0	5.0	5.0	5.0	2.5	0	0	8	0
COTX00104-7R	1.0	3.4	1.0	4.0	4.2	5.0	5.0	5.0	5.0	4.5	0	0	5	0
Average	1.0	2.7	1.0	3.4	3.6	5.0	5.0	5.0	5.0	3.8	0	0	9	0
L.S.D. (.05)	ns	0.1	ns	0.6	0.1	ns	ns	ns	ns	0.1	ns	ns	ns	ns

<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 16e.

Notes and general rating for all reps of 8 entries in the Texas Advanced Red Selection (Colorado source) Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
Dark Red Norland	light skin, yield+	deep eyes, poor skin finish, escape small potato problem, 30% heat sprouts	3, 3.4, 3.3, 3	3, 2.5, 3.5, 2.5
Red LaSoda	light skin, yield+	large tubers, deep eyes	3.4, 3.2, 3, 3.2	3.4, 3.4, 3.4, 3.4
ATTX88481-1P/W	nice shape and skin	feathering+, large tubers, resistant to cause of small potato, smooth, second growth, bulking parent, silver	3.3, 3.6, 3.1, 3.3	4, 4, 4, 4
NDTX731-1R	yield+, nice	poor skin finish, deep eyes, stem attachment	3.6, 3.3, 3.3, 3.4	3.5, 3.5, 3.5, 3.5
NDTX4784-7R	nice shape	nice skin, stem attachment, silver scurf, small+	3.5, 3.3, 3.4, 2	3.8, 3.8, 3, 3.5
ATTX98453-6R	nice	nice, feathering, BOT-, stem attachment, nice	3, 2.8, 2.5, 2.8	3.7, 3.8, 4, 3.7
AOTX01178-1R	light skin, yield+	feathering, stem attachment	2.8, 2.5, 2.8, 1.5	3.8, 3.2, 3, 3.2
COTX00104-7R	yield-	nice flesh, stem attachment, poor skin finish++, alligator skin, drop+++	3.1, 2, 2.5, 2	3, 3, 2.8, 3

Springlake  
Table 16f.

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 8 entries in the Texas Advanced Red Selection (Colorado source) Trial grown near Springlake, Texas-2010.

Variety or Selection	Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
Dark Red Norland	1.034	8.5	2.9	3	7/33	1 zc, 2 mottle, 23 vas, 7 dark	3%	0%
Red LaSoda	1.036	9.0	3.4	3	1/29	17 vas, 1 zc, 11 dark	3%	0%
ATTX88481-1P/W	1.073	15.6	4.0	2	12/29	27 vas, 2 dark	0%	0%
NDTX731-1R	1.025	7.0	3.5	3	9/193	84 dark, 7 zc, 102 vas (14 staining) (vascular browning in 4)	3%	0%
NDTX4784-7R	1.030	7.9	3.5	3	3/163	37 dark, 120 vas, 6 zc (2 fresh zc) (15 staining)	4%	0%
ATTX98453-6R	1.042	9.9	3.8				0%	0%
AOTX01178-1R	1.029	7.7	3.3	3	1/67	20 dark, 47 vas	0%	0%
COTX00104-7R	1.029	7.7	3.0				0%	0%

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

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

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

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

Springlake  
Table 17a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 12 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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	352.1	177.0	89.2	71.0	16.8	0.0	139.3	35.8	3.9	4.1
NDTX050070-1R	196.1	26.9	21.3	5.6	0.0	0.0	155.4	13.8	3.6	3.3
NDTX4271-5R	173.5	36.3	33.2	3.1	0.0	0.0	118.6	18.7	3.5	3.7
Rio Rojo	159.9	49.4	32.8	16.6	0.0	0.0	99.7	10.7	3.6	3.5
ATX03516-2R	155.7	39.8	35.6	4.1	0.0	0.0	104.6	11.4	3.4	3.2
AOTX93483-1R	143.8	69.7	33.2	30.4	6.1	0.0	68.8	5.4	3.5	3.6
NDTX050239-2R	135.0	6.6	6.6	0.0	0.0	0.0	125.5	2.9	2.7	2.6
COTX05211-4R	130.7	14.3	11.2	3.1	0.0	0.0	98.2	18.2	2.7	2.5
COTX05211-7R	105.3	6.9	6.9	0.0	0.0	0.0	94.0	4.3	2.6	2.7
NDTX039190-1R	88.5	13.0	13.0	0.0	0.0	0.0	72.3	3.3	2.5	3.1
ATX03550-2R	86.3	31.1	13.5	17.6	0.0	0.0	51.2	4.0	3.1	3.3
NDTX5438-11R	79.7	15.9	11.8	4.1	0.0	0.0	61.9	1.9	2.3	2.9
Average	150.5	40.6	25.7	13.0	1.9	0.0	99.1	10.9	3.1	3.2
L.S.D. (.05)	30.6	20.1	14.7	10.2	ns		24.7	14.9	0.6	0.3

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

Springlake  
Table 17b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 12 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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	50.2	25.7	20.2	4.3	0.0	39.7	10.1	1.040	9.7	Oblong	Red
NDTX050070-1R	12.9	10.2	2.7	0.0	0.0	80.3	6.8	1.063	13.7	Round	Red
NDTX4271-5R	23.2	21.1	2.1	0.0	0.0	69.0	7.8	1.033	8.4	Round	Red
Rio Rojo	30.8	20.8	9.9	0.0	0.0	62.3	7.0	1.045	10.6	Round	Red
ATX03516-2R	24.9	21.6	3.3	0.0	0.0	68.0	7.1	1.073	15.6	Oblong	Red
AOTX93483-1R	47.9	23.3	21.0	3.7	0.0	48.5	3.6	1.051	11.7	Oblong	Red
NDTX050239-2R	4.4	4.4	0.0	0.0	0.0	92.7	2.8	1.035	8.8	Round	Red
COTX05211-4R	11.0	8.7	2.4	0.0	0.0	75.9	13.1	1.057	12.7	Round	Red
COTX05211-7R	6.4	6.4	0.0	0.0	0.0	89.6	3.9	1.038	9.3	Round	Red
NDTX039190-1R	11.4	11.4	0.0	0.0	0.0	84.8	3.8	1.073	15.5	Round	Red
ATX03550-2R	33.7	15.3	18.4	0.0	0.0	62.0	4.3	1.110	22.2	Oblong	Red
NDTX5438-11R	18.9	14.5	4.4	0.0	0.0	78.8	2.3	1.030	7.9	Oblong	Red
Average	23.0	15.3	7.0	0.7	0.0	71.0	6.1	1.054	12.2		
L.S.D. (.05)	10.1	8.6	6.4	ns		8.8	ns	0.040	7.6		

Springlake  
Table 17c.

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 12 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
Red LaSoda	9.0	3.7	1.7	99	100	2.0	4.2	2.6	4.2	46
NDTX050070-1R	10.3	1.5	2.3	100	100	2.0	4.3	4.3	4.5	5
NDTX4271-5R	9.6	1.5	1.7	87	96	2.0	3.3	2.0	3.5	66
Rio Rojo	7.2	2.2	2.0	62	81	1.5	2.8	1.9	3.0	54
ATX03516-2R	8.1	1.8	2.4	77	87	2.0	3.1	2.8	3.7	38
AOTX93483-1R	4.4	2.6	1.5	83	100	2.0	3.7	3.8	3.8	10
NDTX050239-2R	13.8	0.9	2.7	85	91	2.1	4.2	4.8	4.4	0
COTX05211-4R	10.2	1.2	2.9	70	84	2.1	3.3	4.5	3.6	0
COTX05211-7R	10.0	0.8	2.2	97	100	1.8	3.7	3.5	3.9	15
NDTX039190-1R	9.6	1.4	2.6	38	54	1.5	2.0	4.2	2.7	1
ATX03550-2R	6.4	2.4	1.9	38	46	1.5	2.3	3.8	3.1	9
NDTX5438-11R	8.2	1.1	1.6	61	75	1.5	3.0	3.4	3.6	15
Average	8.9	1.8	2.1	75	85	1.8	3.3	3.5	3.7	22
L.S.D. (.05)	3.4	1.0	0.7	18	17	0.2	0.7	0.9	0.6	19

<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 17d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 12 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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	1.0	3.0	1.0	1.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	33	0
NDTX050070-1R	1.0	1.6	1.0	4.5	4.0	5.0	5.0	5.0	5.0	4.0	0	0	8	0
NDTX4271-5R	1.0	1.5	1.0	4.5	4.0	5.0	5.0	5.0	5.0	4.0	0	0	10	0
Rio Rojo	1.0	2.5	1.0	4.5	3.8	5.0	5.0	5.0	5.0	4.0	0	0	3	0
ATX03516-2R	1.0	3.2	1.0	4.5	3.9	5.0	5.0	5.0	5.0	5.0	0	0	3	15
AOTX93483-1R	1.0	3.8	1.0	4.5	4.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
NDTX050239-2R	1.0	1.5	1.0	4.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	8	0
COTX05211-4R	1.0	2.0	1.0	4.5	4.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
COTX05211-7R	1.0	1.5	1.0	4.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
NDTX039190-1R	1.0	2.3	1.0	4.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	3	3
ATX03550-2R	1.0	3.4	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX5438-11R	1.0	3.4	1.0	4.5	4.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
Average	1.0	2.5	1.0	4.2	3.9	5.0	5.0	5.0	5.0	4.4	0	0	6	1
L.S.D. (.05)	ns	0.2	ns	0.1	0.1	ns	ns	ns	ns	0.1	ns	ns	9	8

<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



Springlake  
Table 17e.

Notes and general rating for all reps of 12 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Grading	General Rating Field	General Rating Grading
Red LaSoda	deep eyes, sticky stolon,	4, 4, 4, 3.5	4.5, 4, 4.5, 3.5
NDTX050070-1R	very white flesh	3.8, 3.4, 3.6, 3.4	3.3, 3.4, 3.2, 3.2
NDTX4271-5R	bad rep, nice skin	3.5, 3.8, 3.4, 3.2	3.5, 4.3, 3.4, 3.5
Rio Rojo	feathering, 20% heat sprouts, nice, 20% heat sprouts	3.8, 3.5, 3.6, 3.6	3.8, 3.5, 3.3, 3.3
ATX03516-2R	20% heat sprouts, internal??, 30% heat sprouts	3.8, 3.6, 3.3, 2.8	3.4, 3.4, 3, 2.8
AOTX93483-1R	feathering, BOT, silver scurf, large tuber are rough,	3.7, 3.7, 3.3, 3.3	4, 3.5, 3.5, 3.4
NDTX050239-2R	small+, dark skin, nice but small	3.6, 2.5, 2, 2.5	2.7, 2.7, 2.7, 2.2
COTX05211-4R	nice skin color, small, 50% sticky stolon, feathering, small, drop	2.5, 3, 3.4, 2	2.8, 2.5, 2.5, 2.2
COTX05211-7R	nice skin and flesh, small, drop,	3, 3, 2.3, 2	3.2, 2.8, 2.4, 2.5
NDTX039190-1R	sticky stolon, nice white flesh, bad rep	3.4, 2.5, 2.2, 2	3.3, 3, 3, 3
ATX03550-2R	keep, 10% heat sprouts, nice skin, poor rep	3.6, 3.6, 3.3, 2	3.5, 3.5, 3, 3
NDTX5438-11R	sticky stolon, 20% heat sprouts	3.3, 2.8, 2, 1	3, 2.8, 2.8, 3

Springlake  
Table 17f.

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 12 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	General Rating <sup>1</sup>	Tuber Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
Red LaSoda	1.040	9.7	4.1	3	1/29	17 vas, 1 zc, 11 dark	3%	5%
NDTX050070-1R	1.063	13.7	3.3	3	3/28	20 vas, 8 dark	0%	0%
NDTX4271-5R	1.033	8.4	3.7	3	3/35	31 vas, 2 zc, 2 dark	5%	13%
Rio Rojo	1.045	10.6	3.5					8%
ATX03516-2R	1.073	15.6	3.2	3	3/27	21 vas, 6 dark	0%	8%
AOTX93483-1R	1.051	11.7	3.6					5%
NDTX050239-2R	1.035	8.8	2.6	3	2/35	29 vas, 6 dark	0%	5%
COTX05211-4R	1.057	12.7	2.5					13%
COTX05211-7R	1.038	9.3	2.7	2	8/39	34 vas, 5 dark	0%	0%
NDTX039190-1R	1.073	15.5	3.1					3%
ATX03550-2R	1.110	22.2	3.3	3	4/34	29 vas, 5 dark	0%	0%
NDTX5438-11R	1.030	7.9	2.9					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

Springlake  
Table 18a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 2 entries in the Texas Advanced Red Skin Yellow Flesh Selection (Colorado Source) Trial grown near Springlake, Texas-2010.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
		Total Yield	4-6 oz	6-10 oz	10-18 oz					
ATTX961014-1BR/Y	214.0	53.9	40.4	13.5	0.0	0.0	151.6	8.5	3.6	3.6
ATTX961014-1R/Y	181.0	49.3	30.3	19.0	0.0	0.0	123.8	8.0	3.5	3.4
Average	197.5	51.6	35.3	16.2	0.0	0.0	137.7	8.2	3.5	3.5
L.S.D. (.05)	ns	ns	ns	ns			ns	ns	ns	ns

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

Springlake  
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 2 entries in the Texas Advanced Red Skin Yellow Flesh Selection (Colorado Source) Trial grown near Springlake, Texas-2010.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
ATTX961014-1BR/Y	23.9	18.5	5.4	0.0	0.0	72.1	4.0	1.092	18.9	Oblong	Red
ATTX961014-1R/Y	27.1	17.0	10.1	0.0	0.0	68.3	4.5	1.084	17.5	Round	Red
Average	25.5	17.8	7.7	0.0	0.0	70.2	4.3	1.088	18.2		
L.S.D. (.05)	ns	ns	ns			ns	ns	ns	ns		

Springlake  
Table 18c.

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 2 entries in the Texas Advanced Red Skin Yellow Flesh Selection (Colorado Source) Trial grown near Springlake, Texas-2010.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
ATTX961014-1BR/Y	10.1	1.8	3.1	99	100	2.0	4.0	2.3	4.2	41
ATTX961014-1R/Y	8.7	1.7	2.5	83	100	2.0	4.0	2.4	4.2	41
Average	9.4	1.8	2.8	91	100	2.0	4.0	2.3	4.2	41
L.S.D. (.05)	ns	ns	0.4	11.8	ns	ns	ns	ns	ns	ns

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

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

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

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

Springlake  
Table 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 2 entries in the Texas Advanced Red Skin Yellow Flesh Selection (Colorado Source) Trial grown near Springlake, Texas-2010.

Variety or Selection	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>10</sup>	Percent Internal Brownspot
ATTX961014-1BR/Y	2.5	3.5	1.0	4.5	3.8	5.0	5.0	5.0	5.0	5.0	0	0	5	0
ATTX961014-1R/Y	2.4	2.5	1.0	4.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	2.4	3.0	1.0	4.5	3.7	5.0	5.0	5.0	5.0	5.0	0	0	3	0
L.S.D. (.05)	ns	0.1	ns	ns	0.1	ns	ns	ns	ns	ns	ns	ns	ns	ns

<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 18e.

Notes and general rating for all reps of 2 entries in the Texas Advanced Red Skin Yellow Flesh Selection  
(Colorado Source) Trial grown near Springlake, Texas-2010.

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Variety or Selection	Notes Grading	General Rating Field	General Rating Grading
ATTX961014-1BR/Y	80% heat sprouts	3.3, 3.6, 3.9, 3.5	3.7, 3.3, 3.8, 3.5
ATTX961014-1R/Y	80% heat sprouts	3.6, 3.8, 3.2, 3.4	3.5, 3.7, 3.2, 3

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Springlake  
Table 18f.

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 2 entries in the Texas Advanced Red Skin Yellow Flesh Selection (Colorado Source) Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
ATTX961014-1BR/Y	1.092	18.9	3.6	3	1/38	38 vas	0%	10%
ATTX961014-1R/Y	1.084	17.5	3.4					0%

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

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

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

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



Springlake  
Table 19a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 16 entries in the Texas Advanced Red Skin Yellow Flesh Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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					
COTX05261-1R/Y	141.9	10.5	8.0	2.6	0.0	0.0	114.8	16.6	3.5	2.4
ATX98448-6R/Y	126.9	1.7	1.7	0.0	0.0	0.0	100.8	24.4	2.8	2.5
ATX03546-2R/Y	109.4	0.9	0.9	0.0	0.0	0.0	88.8	19.7	3.1	2.5
ATTX03553-1P/Y	101.5	4.1	2.1	2.1	0.0	0.0	85.2	12.1	3.2	2.5
ATTX00289-5R/Y	99.0	0.0	0.0	0.0	0.0	0.0	88.8	10.2	3.0	2.6
COTX06240-2R/Y	94.9	10.2	9.0	1.2	0.0	0.0	79.5	5.2	3.4	3.3
COTX04267-1R/Y	94.0	1.6	1.6	0.0	0.0	0.0	88.3	4.1	3.1	3.2
ATTX05191-3R/Y	87.3	0.0	0.0	0.0	0.0	0.0	82.3	5.0	2.9	2.5
ATX03515-1R/Y	84.9	16.4	13.3	3.1	0.0	0.0	64.6	3.8	3.2	3.3
ATX05175-3R/Y	74.7	2.9	2.9	0.0	0.0	0.0	58.1	13.7	3.2	2.8
ATTX99325-1P	74.0	24.5	12.1	12.4	0.0	0.0	43.9	5.5	3.5	3.9
COTX04188-3R/Y	53.6	0.0	0.0	0.0	0.0	0.0	52.4	1.2	2.7	2.9
COTX04193-2R/Y	52.2	2.2	2.2	0.0	0.0	0.0	43.0	6.9	2.9	3.4
NDTX050184-1R/Y	41.8	0.3	0.3	0.0	0.0	0.0	41.3	0.2	2.5	2.5
ATTX02249-1R	38.2	0.0	0.0	0.0	0.0	0.0	34.9	3.3	2.5	2.4
ATTX03516-2R/Y	28.2	0.0	0.0	0.0	0.0	0.0	25.8	2.4	2.9	2.9
Average	81.4	4.7	3.4	1.3	0.0	0.0	68.3	8.4	3.0	2.8
L.S.D. (.05)	22.7	8.5	4.8	4.7			22.9	8.0	0.5	ns

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

Springlake Table 19b. Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 16 entries in the Texas Advanced Red Skin Yellow Flesh Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
COTX05261-1R/Y	7.1	5.8	1.3	0.0	0.0	81.4	11.4	1.124	24.6	Oblong	Red
ATX98448-6R/Y	1.5	1.5	0.0	0.0	0.0	79.3	19.2	1.084	17.5	Round	Red
ATX03546-2R/Y	0.8	0.8	0.0	0.0	0.0	80.7	18.5	1.092	19.0	Round	Red
ATTX03553-1P/Y	2.6	1.4	1.2	0.0	0.0	82.9	14.5	1.109	21.9	Round	Purple
ATTX00289-5R/Y	0.0	0.0	0.0	0.0	0.0	89.6	10.4	1.096	19.7	Round	Red
COTX06240-2R/Y	9.8	9.0	0.7	0.0	0.0	84.1	6.1	1.098	20.0	Round	Red
COTX04267-1R/Y	1.4	1.4	0.0	0.0	0.0	94.6	3.9	1.101	20.5	Round	Red
ATTX05191-3R/Y	0.0	0.0	0.0	0.0	0.0	94.3	5.7	1.182	35.0	Round	Red
ATX03515-1R/Y	19.4	15.6	3.8	0.0	0.0	76.4	4.2	1.085	17.8	Oblong	Red
ATX05175-3R/Y	3.5	3.5	0.0	0.0	0.0	75.2	21.3	1.121	24.0	Oblong	Red
ATTX99325-1P	30.8	15.6	15.2	0.0	0.0	61.2	8.0	1.116	23.1	Long	Purple
COTX04188-3R/Y	0.0	0.0	0.0	0.0	0.0	98.2	1.8	1.139	27.2	Round	Red
COTX04193-2R/Y	4.2	4.2	0.0	0.0	0.0	83.8	12.1	1.134	26.4	Round	Red
NDTX050184-1R/Y	0.6	0.6	0.0	0.0	0.0	99.1	0.3	1.092	19.0	Round	Red
ATTX02249-1R	0.0	0.0	0.0	0.0	0.0	90.9	9.1	1.159	30.8	Round	Red
ATTX03516-2R/Y	0.0	0.0	0.0	0.0	0.0	92.0	8.0	1.103	20.9	Oblong	Red
Average	5.1	3.7	1.4	0.0	0.0	85.2	9.7	1.115	23.0		
L.S.D. (.05)	8.8	5.2	4.7			12.3	10.1	0.500	9.2		

Springlake  
Table 19c.

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 16 entries in the Texas Advanced Red Skin Yellow Flesh Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
COTX05261-1R/Y	9.0	1.2	3.6	92	100	2.0	3.1	1.9	3.3	48
ATX98448-6R/Y	8.2	1.1	3.4	93	98	1.6	4.1	4.0	4.1	13
ATX03546-2R/Y	8.6	0.9	2.1	92	100	1.8	3.4	3.8	3.5	10
ATTX03553-1P/Y	12.6	1.0	2.5	39	62	1.6	3.2	4.9	3.7	0
ATTX00289-5R/Y	8.6	0.9	2.5	93	100	1.9	4.4	4.6	4.6	0
COTX06240-2R/Y	6.8	1.1	1.8	85	98	1.6	4.2	4.9	4.0	0
COTX04267-1R/Y	8.6	0.9	2.5	90	96	2.0	2.9	3.4	3.2	19
ATTX05191-3R/Y	11.0	0.7	1.8	82	93	2.0	4.1	5.0	4.2	0
ATX03515-1R/Y	5.1	1.6	2.6	74	88	1.8	2.8	2.6	3.3	31
ATX05175-3R/Y	4.9	1.3	2.0	68	78	1.6	2.8	4.6	2.9	0
ATTX99325-1P	5.7	2.1	2.1	38	49	1.6	1.4	2.3	1.8	29
COTX04188-3R/Y	5.6	0.9	1.9	79	89	1.5	3.2	4.5	3.3	1
COTX04193-2R/Y	4.0	1.2	2.5	63	80	2.0	2.3	3.5	2.2	21
NDTX050184-1R/Y	7.5	0.5	1.9	81	93	2.0	3.9	5.0	4.1	0
ATTX02249-1R	5.5	0.6	3.0	89	96	1.5	4.4	5.0	4.4	0
ATTX03516-2R/Y	6.4	0.9	1.7	34	42	1.5	2.0	3.3	2.2	5
Average	7.4	1.1	2.4	75	85	1.8	3.3	3.9	3.4	11
L.S.D. (.05)	2.5	0.3	0.6	18	17	0.2	0.5	0.7	0.4	12

<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 19d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 16 entries in the Texas Advanced Red Skin Yellow Flesh Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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
COTX05261-1R/Y	3.0	3.8	1.0	4.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
ATX98448-6R/Y	1.9	1.5	1.0	4.5	2.0	5.0	5.0	5.0	5.0	5.0	0	0	15	0
ATX03546-2R/Y	2.8	1.5	1.0	4.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	25	0
ATX03553-1P/Y	2.5	1.5	1.0	1.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	15	0
ATX00289-5R/Y	1.5	1.5	1.0	4.5	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX06240-2R/Y	2.5	2.6	1.0	4.5	3.6	5.0	5.0	5.0	5.0	5.0	0	0	5	0
COTX04267-1R/Y	3.4	1.5	1.0	4.5	3.3	5.0	5.0	5.0	5.0	5.0	0	0	3	0
ATX05191-3R/Y	1.9	1.5	1.0	4.5	3.9	5.0	5.0	5.0	5.0	5.0	0	0	5	0
ATX03515-1R/Y	3.3	3.0	1.0	4.5	3.1	5.0	5.0	5.0	5.0	5.0	0	0	28	0
ATX05175-3R/Y	3.0	3.3	1.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	8	0
ATX99325-1P	1.0	4.0	1.0	4.5	5.0	5.0	5.0	5.0	5.0	2.5	0	0	0	0
COTX04188-3R/Y	3.5	2.4	1.0	4.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04193-2R/Y	4.0	2.3	1.0	4.5	4.1	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050184-1R/Y	2.0	1.5	1.0	4.5	4.1	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX02249-1R	1.6	1.5	1.0	4.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	25	0
ATX03516-2R/Y	3.1	3.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	2.6	2.3	1.0	4.3	3.5	5.0	5.0	5.0	5.0	4.8	0	0	8	0
L.S.D. (.05)	0.2	0.3	ns	0.1	0.3	ns	ns	ns	ns	0.1	ns	ns	15	ns

<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 19e.

Notes and general rating for all reps of 16 entries in the Texas Advanced Red Skin Yellow Flesh Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Grading	General Rating Field	General Rating Grading
COTX05261-1R/Y	poor shape, pointer, drop+, nice flesh,	4, 3.4, 3.5, 3.2	2, 2, 2.8, 2.8
ATX98448-6R/Y	62% heat sprouts, chain tubers, drop+, poor color flesh and skin, poor interior, drop+	2.8, 3, 3.3, 2.2	2.5, 2.5, 2.5, 2.5
ATX03546-2R/Y	22% chain tubers, quarter size, 22% heat sprouts, drop+++	3, 3.3, 3.4, 2.8	2.5, 2.5, 2.5, 2.5
ATTX03553-1P/Y	deep eyes, LaSoda like, drop++, 12% chain tubers	4, 3, 2.8, 2.8	2.5, 2.5, 2.5, 2.5
ATTX00289-5R/Y	25% heat sprouts, drop++, half dollar size, nice shape	2.8, 3, 2.8, 3.4	2.5, 2.5, 2.8, 2.5
COTX06240-2R/Y	stem attachment, larger tubers, stolon attachment, poor internals	3.8, 3.4, 3.3, 3.2	3.5, 3.3, 3, 3.3
COTX04267-1R/Y	nice flesh, quarter to orange size, nice flesh and skin, keep, very small, quarter size, chain tubers, nice skin, small, nice skin, 5% heat sprouts, chain	3.5, 3, 2.8, 3.2	3, 3.4, 3, 3.2
ATTX05191-3R/Y	tubers, drop	3.2, 2.4, 2.8, 3	2.5, 2.5, 2.5, 2.5
ATX03515-1R/Y	large tubers, orange size, , mix yellow and white flesh	3.4, 3, 3.3, 3	3.2, 3.5, 3.3, 3
ATX05175-3R/Y	large tubers	3.8, 3, 3.5, 2.5	2.8, 2.8, 2.8, 2.8
ATTX99325-1P	psyllid resistant.??, feathering, very nice white flesh, very nice, bulked, BOT, bad rep	4, 3.4, 3, 3.6	4.5, 4, 3.5, 3.5
COTX04188-3R/Y	28% heat sprouts, keep for hardness, very firm, half dollar size, nice flesh, quarter size	3.2, 2.3, 2.8, 2.3	3, 2.7, 3, 2.7
COTX04193-2R/Y	nice flesh, BOT-, nice flesh and skin,	2.5, 2.5, 3.3, 3.2	3.5, 3.5, 3.7, 3
NDTX050184-1R/Y	7.5% heat spouts, mix flesh color, drop, quarter size, small,	2.8, 2.2, 2.8, 2	2.5, 2.5, 2.5, 2.5
ATTX02249-1R	14% heat sprouts, quarter size, drop+, sticky stolon	2.3, 2.5, 2.5, 2.5	2.5, 2.5, 2.5, 2
ATTX03516-2R/Y	dark skin, keep, nice skin, nickel size, drop	3, 2.6, 2.8, 3	3.3, 2.8, 3.3, 2.3

Springlake  
Table 19f.

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 16 entries in the Texas Advanced Red Skin Yellow Flesh Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
COTX05261-1R/Y	1.124	24.6	2.4					10%
ATX98448-6R/Y	1.084	17.5	2.5					0%
ATX03546-2R/Y	1.092	19.0	2.5	3	1/40	16 vas, 18 dark, 6 zc	15%	0%
ATTX03553-1P/Y	1.109	21.9	2.5	3	5/35	25 vas, 10 zc	25%	8%
ATTX00289-5R/Y	1.096	19.7	2.6					0%
COTX06240-2R/Y	1.098	20.0	3.3	3	0/41	29 vas, 12 dark	0%	35%
COTX04267-1R/Y	1.101	20.5	3.2					3%
ATTX05191-3R/Y	1.182	35.0	2.5	3	0/39	4 vas, 28 dark, 7 zc	18%	0%
ATX03515-1R/Y	1.085	17.8	3.3					0%
ATX05175-3R/Y	1.121	24.0	2.8					8%
ATTX99325-1P	1.116	23.1	3.9					0%
COTX04188-3R/Y	1.139	27.2	2.9					10%
COTX04193-2R/Y	1.134	26.4	3.4					0%
NDTX050184-1R/Y	1.092	19.0	2.5					0%
ATTX02249-1R	1.159	30.8	2.4	3	0/47	38 vas, 4 dark	0%	0%
ATTX03516-2R/Y	1.103	20.9	2.9	3	10/30	25 vas, 5 dark	0%	0%
Average	1.115	23.0	2.8				10%	5%
L.S.D. (.05)	0.500	9.2	ns					15%

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

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

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

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

Springlake  
Table 20a.

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 Yukon Gold Strain Trial grown near Springlake, Texas-2010.

Variety or Selection	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					
TXYG098	299.2	91.3	52.5	38.7	0.0	0.0	189.3	18.7	3.9	3.7
TXYG079	286.4	138.1	74.5	62.2	1.4	0.0	133.8	14.5	3.9	4.2
TXYG057	275.4	153.2	103.9	47.7	1.6	0.0	114.6	7.6	3.9	4.0
TXYG055	272.9	138.1	92.0	42.5	3.6	0.0	116.3	18.5	3.9	3.8
Yukon Gold	207.6	118.8	65.9	52.9	0.0	0.0	78.8	10.0	3.8	3.9
Sierra Gold	187.4	114.3	61.0	47.2	6.1	0.0	72.1	1.0	3.7	4.2
Average	254.8	125.6	75.0	48.5	2.1	0.0	117.5	11.7	3.9	3.9
L.S.D. (.05)	35.7	ns	ns	ns	ns		41.6	11.3	ns	0.3

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

Springlake  
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 6 entries in the Yukon Gold Strain Trial grown near Springlake, Texas-2010.

Variety or Selection	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				
TXYG098	30.5	17.5	13.0	0.0	0.0	63.2	6.3	1.067	14.5	Oblong	White
TXYG079	48.0	25.8	21.7	0.5	0.0	46.8	5.2	1.059	13.0	Oblong	White
TXYG057	56.3	37.8	17.9	0.6	0.0	41.0	2.6	1.063	13.7	Oblong	White
TXYG055	52.1	34.8	16.1	1.3	0.0	41.5	6.4	1.057	12.8	Oblong	White
Yukon Gold	56.8	31.3	25.5	0.0	0.0	38.2	4.9	1.059	13.0	Oblong	White
Sierra Gold	59.7	30.2	25.7	3.8	0.0	39.9	0.4	1.053	11.9	Oblong	Russet
Average	50.6	29.6	20.0	1.0	0.0	45.1	4.3	1.060	13.1		
L.S.D. (.05)	ns	ns	ns	ns	ns	ns	ns	ns	ns		



Springlake  
Table 20c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 6 entries in the Yukon Gold Strain Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
TXYG098	7.4	3.3	1.7	92	100	1.0	4.4	2.8	4.5	26
TXYG079	9.6	2.9	1.4	82	88	1.1	3.8	2.3	4.3	34
TXYG057	7.2	3.1	1.8	93	100	1.0	4.4	2.4	4.5	30
TXYG055	8.0	3.3	1.5	82	88	1.0	4.2	2.3	4.4	31
Yukon Gold	6.3	3.3	1.6	58	79	1.0	3.8	2.6	3.8	35
Sierra Gold	5.4	3.2	1.9	90	96	1.9	3.4	1.9	3.7	59
Average	7.3	3.2	1.7	83	92	1.2	4.0	2.4	4.2	36
L.S.D. (.05)	ns	ns	ns	20.6	ns	ns	ns	ns	ns	ns

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

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

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

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

Springlake  
Table 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 6 entries in the Yukon Gold Strain Trial grown near Springlake, Texas-2010.

Variety or Selection	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
TXYG098	2.5	3.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXYG079	2.5	3.4	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
TXYG057	2.5	3.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXYG055	2.8	3.3	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Yukon Gold	2.6	3.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Sierra Gold	2.5	3.5	3.0	5.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	2.6	3.2	1.3	4.6	1.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)	ns	0.2	0.1	ns	0.1	ns	ns	ns	ns	ns	ns	ns	ns	ns

<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

Springlake  
Table 20e.

Notes and general rating for all reps of 6 entries in the Yukon Gold Strain Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
TXYG098	yield+ BOT	poor shape, yield-	4, 3.9, 3.8, 3.9	3.7, 3.7, 3.7, 3.7
TXYG079	yield+ BOT	heavy set, BOT of strains, nice	4, 4, 3.9, 3.7	4.3, 4.3, 4, 4
TXYG057	yield+ BOT	very nice, some rot, nice	3.9, 3.7, 4, 4	4.3, 4, 3.5, 4.3
TXYG055	yield+ BOT	more culls	4, 4, 4, 3.6	3.7, 3.7, 3.8, 3.8
Yukon Gold	very nice, BOT	nice	4, 3.8, 3.6, 3.7	4, 4, 3.5, 4
Sierra Gold	very nice, BOT	smooth, BOT	3.9, 4, 3.5, 3.5	4.5, 4.5, 3.6, 4

Springlake  
Table 20f.

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 6 entries in the Yukon Gold Strain Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
TXYG098	1.067	14.5	3.7					3%
TXYG079	1.059	13.0	4.2					0%
TXYG057	1.063	13.7	4.0					5%
TXYG055	1.057	12.8	3.8					0%
Yukon Gold	1.059	13.0	3.9					0%
Sierra Gold	1.053	11.9	4.2					0%

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

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

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

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

Springlake  
Table 21a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 16 entries in the Texas Advanced White Skin Yellow flesh Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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					
BTX1749-1W/Y	166.1	30.9	22.5	8.5	0.0	0.0	89.9	45.3	3.6	3.1
ATTX00289-6Y/Y	158.7	40.4	25.8	14.7	0.0	0.0	107.0	11.2	3.2	3.2
Yukon Gold	158.5	37.3	15.2	22.1	0.0	0.0	107.2	14.0	3.5	2.7
BTX1544-2W/Y	142.4	38.7	38.7	0.0	0.0	0.0	89.9	13.8	2.5	3.1
NDTX050169-2W/Y	142.3	7.3	7.3	0.0	0.0	0.0	127.6	7.4	2.9	2.0
NDTX050025-1W/Y	140.4	10.0	10.0	0.0	0.0	0.0	103.0	27.3	2.8	2.4
NDTX060868-3Y/Y	132.7	22.8	20.4	2.4	0.0	0.0	93.6	16.2	2.7	2.9
TX1523-1Ru/Y	125.6	49.9	30.9	17.3	1.6	0.0	73.9	1.8	3.6	3.5
TX04237-6Y/Y	99.0	5.3	5.3	0.0	0.0	0.0	88.7	5.0	2.9	3.0
COTX04178-1Y/Y	87.3	12.4	12.4	0.0	0.0	0.0	71.2	3.6	2.2	2.0
ATTX98500-3PW/Y	79.2	0.0	0.0	0.0	0.0	0.0	72.3	6.9	1.9	3.0
NDTX049265-2WRSP/Y	78.0	4.7	4.7	0.0	0.0	0.0	70.7	2.6	2.0	3.1
ATX03496-3Y/Y	73.5	1.9	1.9	0.0	0.0	0.0	65.0	6.6	2.6	2.1
ATX03546-1W/Y	67.2	0.0	0.0	0.0	0.0	0.0	62.9	4.3	2.0	2.5
NDTX050264-1W	50.8	1.0	1.0	0.0	0.0	0.0	47.7	2.1	2.3	2.0
NDTX059759-3Pinto/Y	32.7	1.0	1.0	0.0	0.0	0.0	29.2	2.4	2.3	3.2
Average	108.4	16.5	12.3	4.1	0.1	0.0	81.2	10.7	2.7	2.7
L.S.D. (.05)	37.4	15.1	13.3	3.7			27.3	ns	0.6	0.4

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

Springlake  
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 16 entries in the Texas Advanced White Skin Yellow flesh Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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	20.4	14.9	5.5	0.0	0.0	59.6	20.1	1.052	11.8	Oblong	White
ATTX00289-6Y/Y	26.4	17.1	9.3	0.0	0.0	66.1	7.5	1.051	11.6	Oblong	Yellow
Yukon Gold	24.4	10.4	14.0	0.0	0.0	67.1	8.5	1.058	12.8	Round	White
BTX1544-2W/Y	27.5	27.5	0.0	0.0	0.0	63.8	8.7	1.051	11.5	Round	White
NDTX050169-2W/Y	5.6	5.6	0.0	0.0	0.0	88.8	5.6	1.036	9.0	Round	White
NDTX050025-1W/Y	6.5	6.5	0.0	0.0	0.0	75.4	18.1	1.059	13.1	Round	White
NDTX060868-3Y/Y	16.7	15.0	1.7	0.0	0.0	71.6	11.6	1.040	9.7	Oblong	Yellow
TX1523-1Ru/Y	38.9	23.9	13.8	1.1	0.0	59.9	1.2	1.052	11.9	Oblong	Russet
TX04237-6Y/Y	4.6	4.6	0.0	0.0	0.0	90.4	5.0	1.052	11.8	Round	Yellow
COTX04178-1Y/Y	11.0	11.0	0.0	0.0	0.0	85.0	4.0	1.046	10.7	Round	Yellow
ATTX98500-3PW/Y	0.0	0.0	0.0	0.0	0.0	92.1	7.9	1.044	10.3	Oblong	Purple-White
NDTX049265-2WRSP/Y	4.4	4.4	0.0	0.0	0.0	93.3	2.3	1.052	11.7	Round	White-Red Splash
ATX03496-3Y/Y	2.8	2.8	0.0	0.0	0.0	87.3	9.9	1.048	11.1	Oblong	Yellow
ATX03546-1W/Y	0.0	0.0	0.0	0.0	0.0	93.2	6.8	1.047	10.9	Round	White
NDTX050264-1W	1.4	1.4	0.0	0.0	0.0	94.6	4.1	1.049	11.2	Round	White
NDTX059759-3Pinto/Y	2.3	2.3	0.0	0.0	0.0	92.3	5.4	1.039	9.5	Oblong	Pinto
Average	12.0	9.2	2.8	0.1	0.0	80.0	7.9	1.048	11.2		
L.S.D. (.05)	10.7	9.8	2.3	ns		14.5	ns	0.005	1.0		

Springlake  
Table 21c.

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 16 entries in the Texas Advanced White Skin Yellow flesh Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
BTX1749-1W/Y	6.9	2.1	2.3	79	91	2.1	2.8	1.9	3.0	54
ATTX00289-6Y/Y	9.9	2.1	1.9	46	61	1.9	2.8	2.9	3.2	21
Yukon Gold	7.2	2.2	1.6	75	79	1.5	3.1	2.3	3.1	35
BTX1544-2W/Y	5.5	2.2	2.1	82	93	2.0	2.6	2.3	3.2	30
NDTX050169-2W/Y	12.6	0.9	2.1	92	100	1.5	4.2	4.3	4.1	5
NDTX050025-1W/Y	10.3	1.0	2.7	88	100	2.4	3.7	1.6	3.8	80
NDTX060868-3Y/Y	8.4	2.0	2.4	57	73	1.6	3.5	3.9	3.6	10
TX1523-1Ru/Y	5.0	2.7	2.1	60	83	2.0	2.6	1.9	3.1	63
TX04237-6Y/Y	8.3	1.0	2.4	82	98	1.8	3.9	4.3	3.8	9
COTX04178-1Y/Y	11.7	0.7	2.7	68	84	1.5	3.1	3.4	3.1	31
ATTX98500-3PW/Y	8.8	0.8	2.3	79	91	1.5	3.9	4.9	3.9	1
NDTX049265-2WRSP/Y	5.6	1.3	3.3	74	89	3.0	3.0	3.9	3.2	8
ATX03496-3Y/Y	5.4	1.1	3.2	98	100	1.6	2.5	3.6	3.1	13
ATX03546-1W/Y	8.9	0.7	2.8	69	87	2.3	2.3	3.2	2.9	23
NDTX050264-1W	7.5	0.7	1.8	54	76	1.8	3.8	3.9	3.7	15
NDTX059759-3Pinto/Y	2.2	1.2	2.6	90	100	2.0	3.6	4.4	3.6	6
Average	7.8	1.4	2.4	75	88	1.9	3.2	3.3	3.4	25
L.S.D. (.05)	3.8	0.5	0.4	17	16	0.4	0.8	0.7	0.7	18

<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 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 16 entries in the Texas Advanced White Skin Yellow flesh Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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	3.1	3.0	1.0	5.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX00289-6Y/Y	3.5	3.3	1.0	5.0	1.0	5.0	5.0	5.0	5.0	3.4	0	3	0	0
Yukon Gold	2.5	2.3	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX1544-2W/Y	3.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050169-2W/Y	1.4	1.9	1.0	3.8	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050025-1W/Y	2.9	2.7	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX060868-3Y/Y	2.8	3.8	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX1523-1Ru/Y	3.0	3.0	3.0	5.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX04237-6Y/Y	3.0	1.5	1.0	5.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
COTX04178-1Y/Y	1.5	1.5	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98500-3PW/Y	3.4	3.0	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX049265-2WRSP/Y	3.5	2.5	1.0	4.9	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
ATX03496-3Y/Y	2.6	3.0	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	3
ATX03546-1W/Y	3.3	1.5	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050264-1W	2.5	1.5	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059759-3Pinto/Y	2.8	2.6	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	2.8	2.5	1.1	4.8	1.2	5.0	5.0	5.0	5.0	4.8	0	0	0	0
L.S.D. (.05)	0.3	0.3	0.1	0.1	0.1	ns	ns	ns	ns	0.1	ns	ns	ns	ns

<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



Springlake  
Table 21e.

Notes and general rating for all reps of 16 entries in the Texas Advanced White Skin Yellow flesh Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
BTX1749-1W/Y	heavy set, small	, stem attachment, nice flesh, Sierra Gold type skin	3.5, 3.6, 3.8, 3.6	3.3, 3.5, 3, 2.5
ATX00289-6Y/Y		keep, red eyes, 10% chain tubers, feathering 10% heat sprouts, ZC susceptible	3.3, 3, 3, 3.3	3.3, 3.3, 3.3, 3
Yukon Gold	nice shape	bad rep, 20% heat sprouts, rough, bad rep	3.6, 3.7, 3, 3.5	3.5, 3.4, 2, 2
BTX1544-2W/Y	bad rep, bad rep		3.4, 1.5, 3.4, 1.5	3.3, 3, 3, 3
NDTX050169-2W/Y	ok	rough, odd color, drop	2.8, 3, 2.8, 3	2, 2, 2, 2
NDTX050025-1W/Y	odd skin color, shape-	second growth, drop, rough, pointed, small, odd skin color, 10% chain tuber	2.8, 3.1, 2.5, 2.6	2.5, 2, 2.5, 2.5
NDTX060868-3Y/Y	curved	poor shape+, drop++, small	2.5, 2.8, 2.5, 2.8	3, 2.5, 3, 3
TX1523-1Ru/Y	mix, bad rep	nice, bad rep	3.7, 3.5, 3.7, 3.5	3.5, 3.5, 3.5, 3.5
TX04237-6Y/Y	nice shape and skin, nice shape, small, yield-	mix white and yellow flesh, drop++	2.9, 3.3, 2, 3.3	3, 3, 3, 3
COTX04178-1Y/Y	Pinto?, small	small potato, small, yield-	1.5, 2, 2.6, 2.5	2, 2, 2, 2
ATX98500-3PW/Y	purple-white skin, poor shape	second growth, heat sprouts, drop	1.5, 2, 2.5, 1.5	3, 3, 3, 3
NDTX049265-2WRSP/Y	white red splash, yield-		2.4, 2.5, 1.5, 1.5	3, 3.3, 3, 3
ATX03496-3Y/Y	yield-	rough+, nice flesh, lenticels, drop+, small potato??	3, 2, 2.5, 3	2, 2, 2.5, 2
ATX03546-1W/Y	yield-	smooth, small, 20% heat sprouts, small potato??, stem attachment	2, 2.5, 2, 1.5	2.5, 2.5, 2.5, 2.5
NDTX050264-1W	small	drop if not small potato, , small potato??	2.5, 2, 2.5, 2	2, 2, 2, 2
NDTX059759-3Pinto/Y	pinto, yield-, pinto,yield-	red white pinto, purple streak in flesh, advance, poor shape	2, 2.5, 2, 2.5	3, 3, 3.3, 3.3

Springlake  
Table 21f.

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 16 entries in the Texas Advanced White Skin Yellow flesh Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
BTX1749-1W/Y	1.052	11.8	3.1	3	67/29	2 dark, (1 fresh zc) BOT, nice (4 crunch)	0%	10%
ATTX00289-6Y/Y	1.051	11.6	3.2					10%
Yukon Gold	1.058	12.8	2.7	3	17/29	(2 crunch classic)	4%	0%
BTX1544-2W/Y	1.051	11.5	3.1	3	25/27	5 dark	0%	0%
NDTX050169-2W/Y	1.036	9.0	2.0					0%
NDTX050025-1W/Y	1.059	13.1	2.4	2	26/12		0%	0%
NDTX060868-3Y/Y	1.040	9.7	2.9	3	10/29	2 dark	8%	0%
TX1523-1Ru/Y	1.052	11.9	3.5					0%
TX04237-6Y/Y	1.052	11.8	3.0					0%
COTX04178-1Y/Y	1.046	10.7	2.0					0%
ATTX98500-3PW/Y	1.044	10.3	3.0	3	4/40	10 dark	9%	3%
NDTX049265-2WRSP/Y	1.052	11.7	3.1	2	24/17		2%	0%
ATX03496-3Y/Y	1.048	11.1	2.1					0%
ATX03546-1W/Y	1.047	10.9	2.5					0%
NDTX050264-1W	1.049	11.2	2.0	3	9/27	9 dark	50%	0%
NDTX059759-3Pinto/Y	1.039	9.5	3.2	3	24/6	4 dark	7%	0%

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

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

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

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

Springlake  
Table 22a. 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 Small Potato Trial grown near Springlake, Texas-2010.

Variety or Selection	Total Yield Cwt/A	Total Yield Over 2 inch Tubers	Total Yield Under 1 inch Tubers	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
ATX05202-3W/Y	166.6	51.5	115.1	0.0	3.4	4.0
COTX04050-1P/P	164.1	33.2	130.9	0.0	3.3	3.5
ATX03546-1W/Y	163.0	24.0	139.0	0.0	3.9	2.8
ATX02263-1R/Y	157.0	49.2	107.8	0.0	3.2	3.6
NDTX059886-1Y/Y	133.2	27.0	106.2	0.0	3.4	3.6
ATX98444-16R/Y	126.7	29.9	96.7	0.0	3.4	4.2
COTX05037-4Y/Y	78.8	10.0	68.8	0.0	3.4	2.1
ATX9132-2Y	8.2	0.0	8.2	0.0	1.0	1.5
Average	124.7	28.1	96.6	0.0	3.1	3.1
L.S.D. (.05)	34.1	20.6	29.0		0.2	0.3

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

Springlake  
Table 22b.

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 Small Potato Trial grown near Springlake, Texas-2010.

Variety or Selection	Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield Over 2 inch Tubers	Total Yield Under 1 inch Tubers	Culls/ No. 2				
ATX05202-3W/Y	31.3	68.7	0.0	1.026	7.2	Oblong	White
COTX04050-1P/P	19.8	80.2	0.0	1.040	9.6	Oblong	Purple
ATX03546-1W/Y	14.5	85.5	0.0	1.030	7.9	Oblong	White
ATX02263-1R/Y	30.8	69.2	0.0	1.030	8.0	Oblong	Red
NDTX059886-1Y/Y	20.6	79.4	0.0	1.047	10.8	Round	Yellow
ATTX98444-16R/Y	23.9	76.1	0.0	1.048	11.1	Oblong	Red
COTX05037-4Y/Y	12.1	87.9	0.0	1.030	7.8	Round	Yellow
ATX9132-2Y	0.0	100.0	0.0	1.028	7.6	Round	White
Average	19.1	80.9	0.0	1.035	8.8		
L.S.D. (.05)	12.5	12.5		0.010	2.3		

Springlake  
Table 22c.

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 Texas Advanced Small Potato Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
ATX05202-3W/Y	9.1	1.0	1.9	83	100	1.8	4.3	4.9	4.3	1
COTX04050-1P/P	11.9	0.9	1.8	73	86	1.8	3.8	4.1	3.6	5
ATX03546-1W/Y	12.6	0.8	2.3	86	93	2.9	3.4	4.4	3.6	3
ATX02263-1R/Y	8.0	1.2	1.7	76	94	1.4	3.4	2.0	3.4	29
NDTX059886-1Y/Y	9.1	0.9	1.7	77	94	1.8	4.4	5.0	4.5	0
ATTX98444-16R/Y	7.3	1.0	2.0	87	99	2.1	3.3	2.5	3.5	29
COTX05037-4Y/Y	9.0	0.7	1.9	68	75	1.3	3.4	5.0	3.4	0
ATX9132-2Y	3.2	0.2	1.9	83	93	2.4	3.1	5.0	3.2	0
Average	8.8	0.8	1.9	79	92	1.9	3.6	4.1	3.7	8
L.S.D. (.05)	2.7	0.2	0.3	ns	13	0.5	0.3	0.7	0.3	5

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

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

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

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

Springlake  
Table 22d. 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 Small Potato Trial grown near Springlake, Texas-2010.

Variety or Selection	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
ATX05202-3W/Y	1.9	3.0	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
COTX04050-1P/P	3.9	1.9	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX03546-1W/Y	2.1	2.5	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX02263-1R/Y	2.2	3.0	1.0	5.0	3.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059886-1Y/Y	1.7	2.2	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98444-16R/Y	3.3	2.3	1.0	5.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
COTX05037-4Y/Y	2.8	2.1	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX9132-2Y	4.0	1.0	1.0	2.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	2.7	2.2	1.0	4.6	2.1	5.0	5.0	5.0	5.0	5.0	0	0	1	0
L.S.D. (.05)	0.4	0.5	ns	0.1	0.1	ns	ns	ns	ns	ns	ns	ns	ns	ns

<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 22e.

Notes and general rating for all reps of 8 entries in the Texas Advanced Small Potato Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
ATX05202-3W/Y	some larger tubers, nice, too oblong	10% chain tubers, heavy set, 70% heat sprouts, BOT, nice skin, shape, and flesh	3.2, 3.5, 3.5, 3.4	4, 4, 4, 4
COTX04050-1P/P	some larger tubers, nice++	30%chain tubers, heavy set, 30% heat sprouts, , some white in flesh, variable flesh color intensity	3.3, 3.5, 3.2, 3.3	3.3, 3.5, 3.5, 3.5
ATX03546-1W/Y	nice shape and size, BOT	35% heat sprouts, chain tubers, poor shape	3.5, 3.8, 4, 4.2	3, 2.5, 3, 2.5
ATX02263-1R/Y	some larger tubers, too oblong	smooth, nice flesh, nice skin color	3.2, 3.2, 3.1, 3.1	3.5, 3.5, 3.5, 3.8
NDTX059886-1Y/Y	nice, some larger tubers, nice shape	heavy set, 15% heat sprouts, 10% chain tubers, light flesh, nice shape	3.2, 3.5, 3.4, 3.4	3.5, 3.5, 3.5, 3.8
ATX98444-16R/Y	some larger tubers, nice shape	Doug likes, silver scurf, very nice, BOT	3.2, 3.5, 3.4, 3.5	4, 4, 4.2, 4.5
COTX05037-4Y/Y	some lager tubers, yield-	10% chain tubers, chain tubers, poor shape	3.1, 3.4, 3.3, 3.8	2, 2.5, 2, 2
ATX9132-2Y	very late, no yield	parent, heavy set, very small	1, 1, 1, 1	1.5, 1.5, 1.5, 1.5

Springlake  
Table 22f.

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 8 entries in the Texas Advanced Small Potato Trial grown near Springlake, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	General Rating <sup>1</sup>	Tuber Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
ATX05202-3W/Y	1.026	7.2	4.0					3%
COTX04050-1P/P	1.040	9.6	3.5					0%
ATX03546-1W/Y	1.030	7.9	2.8					0%
ATX02263-1R/Y	1.030	8.0	3.6					0%
NDTX059886-1Y/Y	1.047	10.8	3.6					3%
ATX98444-16R/Y	1.048	11.1	4.2					0%
COTX05037-4Y/Y	1.030	7.8	2.1	3	53/217	17 mottled, 59 dark, 1MB, (8 fresh ZC)	2%	0%
ATX9132-2Y	1.028	7.6	1.5					0%

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

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

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

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



Springlake  
Table 23a.

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 Fingerling Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Total Yield Cwt/A	Total Marketable Yield	Over Sized	Under Sized	Culls/ No.2	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading
COTX03187-1W	146.8	48.5	0.0	87.7	10.7	3.4	3.9
PTTX05PG07-1W	125.6	56.6	0.0	68.1	0.9	4.3	4.0
Banana	77.9	21.6	0.0	51.0	5.3	2.0	3.8
Purple Peruvian	31.9	4.9	0.0	26.9	0.2	1.5	3.8
Average	95.6	32.9	0.0	58.4	4.3	2.8	3.9
L.S.D. (.05)	40.5	26.6		31.2	ns	0.3	0.1

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

Springlake  
Table 23b.

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 Fingerling Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Percent By Weight				Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Marketable Yield	Over Sized	Under Sized	Culls/ No. 2				
COTX03187-1W	33.9	0.0	58.8	7.3	1.064	13.8	Long	White
PTTX05PG07-1W	44.8	0.0	54.7	0.5	1.052	11.7	Long	White
Banana	28.0	0.0	66.5	5.5	1.057	12.6	Long	White
Purple Peruvian	16.3	0.0	83.3	0.4	1.062	13.5	Long	Purple
Average	30.8	0.0	65.8	3.4	1.058	12.9		
L.S.D. (.05)	19.4		14.8	ns	ns	ns		

Springlake  
Table 23c.

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 4 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	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>	
COTX03187-1W	6.3	1.3	1.7	90	100	2.0	3.8	3.7	3.7	0
PTTX05PG07-1W	10.9	0.7	3.1	88	91	2.6	3.1	3.5	3.5	73
Banana	7.8	0.5	2.7	83	97	2.4	3.5	3.6	3.6	0
Purple Peruvian	6.0	0.3	2.3	91	98	1.5	4.2	4.4	4.4	0
Average	7.8	0.7	2.5	88	96	2.1	3.7	3.8	3.8	18
L.S.D. (.05)	0.2	0.2	0.4	ns	ns	0.5	0.4	0.3	0.3	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 23d. 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-2010.

Variety or Selection	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
COTX03187-1W	1.0	4.0	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
PTTX05PG07-1W	1.0	4.0	1.0	5.0	1.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Banana	3.0	4.0	1.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Purple Peruvian	3.8	4.0	1.0	2.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	2.2	4.0	1.0	4.3	2.1	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)	0.1	ns	ns	0.1	0.1	ns	ns	ns	ns	ns	ns	ns	ns	ns

<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 23e.

Notes and general rating for all reps of 4 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2010.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
COTX03187-1W	shape-	to large for fingerling, smooth uniform size, send to Mel for baby bakers, move to baby bakers	3.3, 3.4, 3.5, 3.5	3.8, 3.8, 3.8, 4
PTTX05PG07-1W	BOT	nice shape and smooth skin, better than Banana,	4.5, 4.5, 4, 4	4, 4, 4, 4
Banana	poor shape	curved, lot of small potatoes	2, 2, 2, 2	3.8, 3.8, 3.8, 3.8
Purple Peruvian	very small	deep eyes, white in flesh, small	1.5, 1.5, 1.5, 1.5	3.8, 3.8, 3.8, 3.8

## **2010 Dalhart Trials**

### **Summary of growing conditions:**

These trials were planted 10 miles southwest of Dalhart in a CSS Farms production field from 6 May and harvested on 6 and 20 and September and 4 and 18 October. Standard cultural practices for the area were used (Table 3). Precipitation was higher than normal during the second and third week in June, fourth week in July, and first week in August (Figure 4).

### **Trials conducted:**

- Western Regional Chip
- Southwestern Regional Chip
- Texas Advanced Chip (Co. source) and Commercial Variety
- Texas Advanced Chip
- 2009 Chip Selection
- Texas Advanced Russet
- 2009 Russet Selection
- Texas Advanced Red
- 2009 Red Selection
- Texas Advanced Red Skin Yellow Flesh
- Texas Advanced White Skin Yellow Flesh
- 2009 White Skin Yellow Flesh Selection
- Texas Advanced Small Potato
- 2009 Small Potato Selection
- Texas Advanced Fingerling
- 2009 Fingerling
- National Breeders' Chip Trial

### **WESTERN REGIONAL CHIP TRIAL**

This trial consisted of seven entries, including the check varieties Atlantic and Chipeta. Results were as follows: (Dalhart Tables 1a, 1b, 1c, 1d, 1e, and 1f)

- Atlantic and CO00188-4W had the highest general ratings. A00188-3C had a best of trial designation for chip appearance (Tables 1a and 1f).
- Atlantic and CO00188-4W had the highest total and marketable yield (Table 1a).
- CO00188-4W and Atlantic had the highest yield of 1-3 inch tubers, while Atlantic had the highest yield of over 3-inch tubers (Table 1a).
- CO00197-3W had the highest yield of culls/No. 2 tubers (Table 1a).
- Atlantic had the highest specific gravity (Table 1b).
- CO00197-3W had the highest average number of tubers per plant (Table 1c).
- A01143-3C, A00188-3C, and Chipeta were the latest maturing entries, while CO00188-4W was the earliest maturing (Table 1c).
- CO00188-4W, Atlantic, A01143-3C, CO00270-7W, and A00188-3C had no Zebra Chip. CO00197-3W had 1% Zebra Chip and Chipeta had 11% Zebra Chip (Tables 1f).
- Overall, CO00188-4W and A00188-3C produced the highest quality chips (Table 1f).

Comments on entries:

- |              |              |                                    |
|--------------|--------------|------------------------------------|
| • CO00188-4W | Round White  | <sup>1</sup> CR=1                  |
| • Atlantic   | Oblong Buff  | 4% heat necrosis CR=2              |
| • CO00197-3W | Round White  | poor shape, drop, rough, ugly CR=1 |
| • A01143-3C  | Round White  | feathering, small CR=1             |
| • CO00270-7W | Round White  | sticky stolon CR=1                 |
| • A00188-3C  | Oblong White | rough CR=1                         |
| • Chipeta    | Round White  | low yield, small CR=2              |

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

Summary:

The top performing entry based on all factors, including chip evaluations, was CO00188-4W.

Table 3. Environmental and cultural inputs for the 2010 Dalhart Trials.				
Location:				
Dalhart, Texas				
Soil Type				
Dallum Fine Sand Loam				
Seed Source				
Michigan, Main, New York, Wisconsin, Colorado, Oregon, Texas and Idaho				
Date:				
		DAP		
Planted	May 6, 2010			
Vines Killed (Red and Red Yellow Flesh)	August 17, 2010		101	
Vines Killed (Chip and White Yellow Flesh)	August 20, 2010		104	
Vines Killed (Russet)	September 3, 2010		117	
Harvested (Nat. Chip)	September 6, 2010		120	
Harvested (Chip and White Yellow Flesh)	September 20, 2010		134	
Harvested (Chip and Specialty)	October 4, 2010		148	
Harvested (Russet)	October 18, 2010		162	
Plot Information:				
Size of Plots	18'			
Spacing Between Hills	11"			
Spacing Between Rows	28"			
Hills Per Plot	20			
Number of Rows Per Plot	2			
Number of Reps	4			
Method of Harvest:				
Four-row digger, with hand pick up.				
Fertilizer:				
Application:				
189-57-0 # per acre				
Irrigation:				
Center Pivot				
Seed Treatment				
Cruiser Maxx				
Insecticide:				
Beleaf 50 Sg, EPI-MEK 0.15 EC, Fulfill, Movento				
Herbicides Applied:				
Charger, Framework, Chateau, Sencor, Select Max, Dual				
Fungicide Applied:				
Headline, Echo 720 Ag, Endura, Revus Top, Scala SC				
Environmental Factors:				
Precipitation was higher than normal during the second and third week in June, fourth week in July, and first week in August				



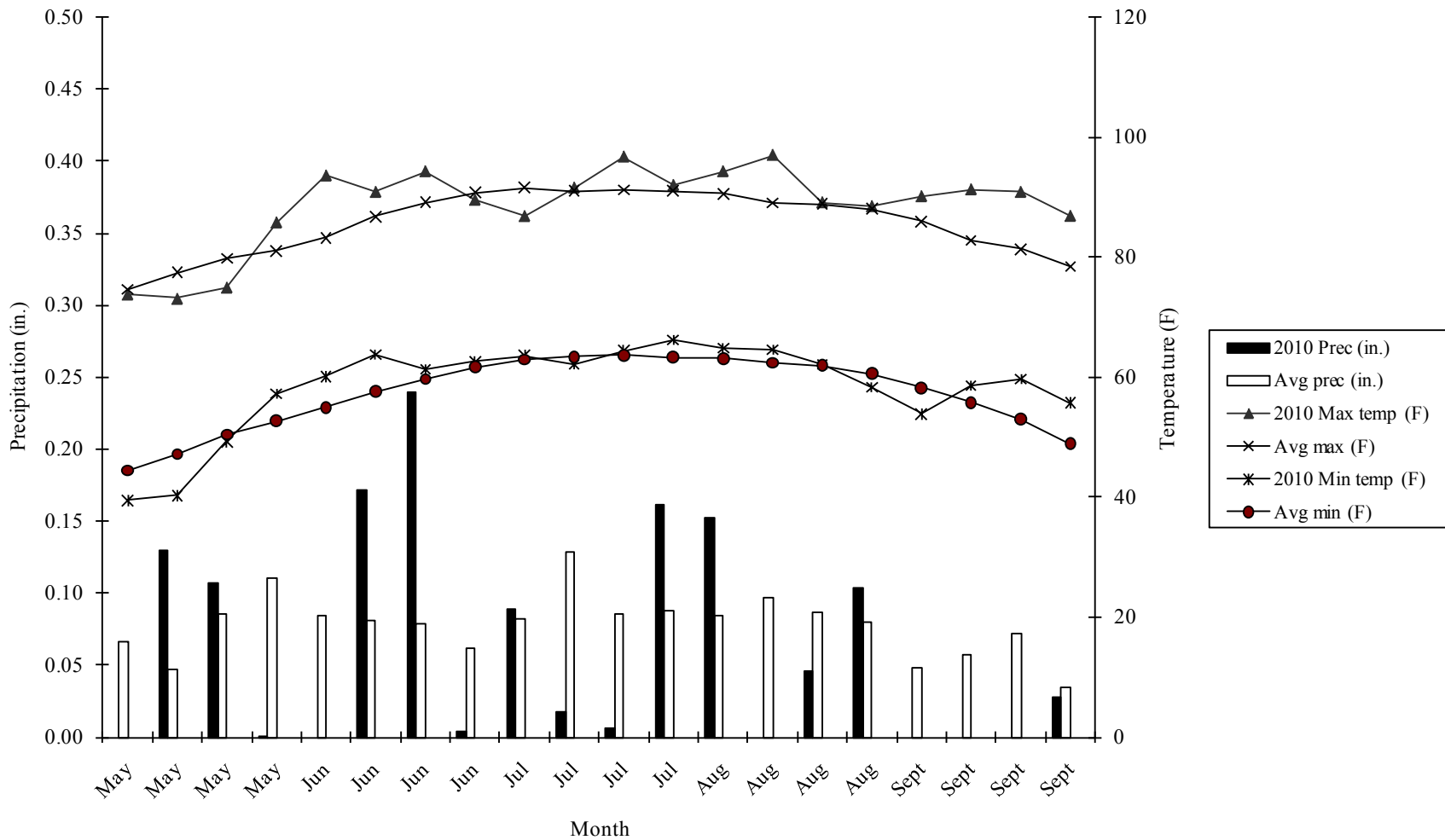


Figure 4. Weekly minimum/maximum temperatures and precipitation for the 2010-growing season near Dalhart, Texas compared to the average minimum/maximum temperatures and precipitation (1949-2010).

## **SOUTHWESTERN REGIONAL COOPERATIVE CHIP TRIAL**

This trial consisted of six entries, including Atlantic and Chipeta as check varieties.

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

- Atlantic and AC01151-5W had the highest general ratings. CO02321-4W received a best of trial designation for chip appearance (Table 2a and 2e).
- AC01151-5W and CO02033-1W had the highest total and marketable yield. Atlantic and CO02321-4W had the highest yield of over 3-inch tubers. AC01151-5W had the highest yield of under 1-inch tubers (Table 2a).
- All of the entries had over 91 percent of over 1-inch tubers (Table 2a).
- Atlantic had the highest specific gravity and percent solids (Table 2b).
- Chipeta and CO02024-9W were the latest maturing, while CO02321-4W was the earliest (Table 2c).
- CO02321-4W had 8% hollow heart (Table 2d).
- CO02024-9W and Chipeta had 10% and 11% Zebra Chip. All the other entries had no Zebra Chip (Tables 2e and 2f).

### Comments on entries:

- AC01151-5W      Round White    feathering, deep nose, small, heavy set, light set CR=2
- CO02033-1W    Oblong White    heavy set, poor shape CR=1
- CO02024-9W    Round White    feathering, heavy set, small, nice and uniform, rough+ CR=1
- Atlantic        Oblong Buff    4% heat necrosis CR=2
- CO02321-4W    Oblong White    CR=1
- Chipeta        Round White    low yield, small CR=2

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

### Summary:

CO02033-1W was the outstanding entry for this trial based on all factors. CO02321-4W was the best entry based on chip quality.

## TEXAS ADVANCED CHIP SELECTION (CO. SOURCE) AND COMMERCIAL VARIETY TRIAL

The trial consisted of nine entries, including the check varieties Atlantic, and Snowden.

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

- The outstanding entries for this trial, based on general ratings and best of trial designations for chip quality were NY138, FL1867, and Snowden. FL1833 and FL2048 also received high general ratings (Table 3a and 3f).
- FL1922 and NY138 had the highest total yields. FL1922 and FL1833 had the highest marketable yield. (Table 3a).
- FL1922 and NY138 had the highest yield of 1 to 3-inch tubers, while FL1833 had the highest yield of over 3-inch tubers. FL1922 had the highest yield of culls/No. 2 tubers (Table 3a).
- All of the entries had over 95% total marketable yield (Table 3b).
- Atlantic had the highest specific gravity and percent solids (Table 3b).
- FL1922, FL1833, FL2048 and Snowden were the latest maturing entries, while NY138 and FL1867 were the earliest maturing (Table 3c).
- FL1833 and Atlantic had 5% hollow heart. FL1833 had 10% vascular discoloration (Table 3d).
- FL1833 and FL2053 had 5% and 2% respectively Zebra Chip, while, the remainder had no Zebra Chip (Table 3f).

### Comments on entries:

- |                |              |                                   |                   |
|----------------|--------------|-----------------------------------|-------------------|
| • FL1922       | Oblong White | rough, pointed                    | <sup>1</sup> CR=1 |
| • NY138        | Round White  | light set                         | CR=1              |
| • FL1833       | Round White  |                                   | CR=2              |
| • FL1867       | Oblong White | flat, bad rep                     | CR=1              |
| • FL2053       | Oblong White | drop, rough+, feathering          | CR=1              |
| • FL2048       | Oblong White | few large tubers, buff, oversized | CR=1              |
| • Snowden      | Round White  | heavy set                         | CR=1              |
| • Atlantic     | Oblong Buff  | 4% heat necrosis                  | CR=2              |
| • COTX90046-1W | Oblong White |                                   | CR=2              |

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

Summary:

Based on all factors, NY138 was the outstanding entry. NY138, FL1867 and FL2048 had the best chip quality.

**TEXAS ADVANCED SELECTION CHIP TRIAL**

The trial consisted of 28 entries, including the check variety Atlantic.

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

- The outstanding entries for this trial based on general ratings and best of trial designations for chip quality were ATTX03476-2W, ATTX03474-1W, Atlantic, and ATTX03446-4W. ATTX03474-3W, ATTX03474-2W and ATX06173-2W also received a best of trial designation for chip appearance (Tables 4a, and 4f).
- ATTX03476-2W and ATTX03475-2W had the highest total and marketable yield. ATTX03476-2W and COTX03270-1W had the highest yield of 1 to 3-inch tubers (Table 4a).
- ATTX03475-2W had the highest yield of over 3-inch tubers. NDTX059979-1W and ATTX98466-5R/W-R had the highest yield of under 1-inch tubers. ATTX03474-1W and Prince Hairy had the highest yield of culls/No. 2 tubers (Table 4a).
- All of the entries had over 79% marketable yield. ATTX03475-2W and ATX06173-2W had greater than 56% of over 3-inch tubers, (Table 3b).
- Atlantic had the highest specific gravity and percent solids (Table 4b).
- ATTX03476-2W, ATTX03474-3W, Prince Hairy, ATTX03475-6W, and ATX06206-6W/Y were the latest maturing entries, while COTX03270-1W, ATTX98466-5R/W-R, TX05249-3W, and NDTX059828-2W were the earliest maturing (Table 4c).
- Atlantic had the highest percentage hollow heart (Table 4d).
- Prince Hairy and TX05249-11W had 8 and 3 percent Zebra Chip (Table 4f).

Comments on entries:

- ATTX03476-2W      Oblong White      a little rough, high yield, deep eyes CR=1

- ATTX03475-2W Oblong White sticky stolon, nice, oversized, oblong to long, Move to Russet trial??
- ATTX03474-1W Round White oversized, rough, bad rep CR=1
- COTX03270-1W Round White small
- ATTX03474-3W Round White some rough+ CR=1
- Atlantic Round Buff oversized, buff, CR=1
- COTX02377-1W Round White rough, oversized, deep eyes, drop++
- Prince Hairy Round White heavy set, rough, poor internals+, 30% insect damage  
CR=2
- ATTX03475-6W Round White CR=1
- TX1673-1W Oblong White pointed
- King Harry Round White CR=2
- TX03196-1W Round White uniform, small CR=1
- NDTX059997-7W Round White
- AOTX95295-1W Round White rough, drop?
- ATX85404-8W Oblong White rough, drop? CR=1
- ATTX03474-2W Round White oversized, nice flesh, bad rep CR=1
- NDTX059979-1W Round White small
- AOTX95309-3W Round White
- COTX03303-1W Oblong White oblong to long, nice flesh CR=1
- TX05249-11W Round White CR=1
- ATX06206-6W/Y Round White small, heat sprouts, yellow flesh, drop CR=3
- ATTX98466-5R/W-R Oblong Red small, purple streaks in flesh, greenhead
- NDTX059632-1W Round White pointed, drop
- ATTX03446-4W Round White light set, keep CR=1
- ATX06206-9W Round White low yield CR=3
- ATX06173-2W Round White CR=1
- TX05249-3W Oblong White CR=1
- NDTX059828-2W Round White heat sprouts CR=1

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

### Summary:

Based on all factors, ATTX03476-2W, ATTX03474-1W, and Atlantic, were the outstanding entries in this trial.

### **2009 CHIP SELECTIONS TRIAL, DALHART**

The trial consisted of 26 entries which were selected in the field for further chip evaluations. Of those, 8 (NDTX071084C-2W, NDTX071109C-1W, NDTX071112-5W, NDTX071217CB-1W, NDTX8303-1W, NDTX8305-1W, NDTX8305-2W, and NDTX8305-3W) will be advanced in 2011 (Table 5).

### **TEXAS ADVANCED RUSSET SELECTION TRIAL, DALHART**

The trial consisted of 40 entries, including the check varieties Russet Norkotah, Russet Norkotah112, Russet Norkotah223, Russet Norkotah278, Russet Norkotah296, and Stampede Russet.

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

- The outstanding entries for this trial, based on general rating and best of trial designations, were AOTX98202-1Ru, ATTX03475-7Ru, ATX84378-6Ru, and AOTX96216-2Ru, while Russet Norkotah112, Russet Norkotah278, AOTX95265-3Ru, TXA549-1Ru, AOTX95265-1Ru, AOTX96084-1Ru, ATTX03475-9Ru, AOTX96265-2Ru, and TXNS410 also had high general ratings (Tables 6a and 6e).
- Russet Norkotah112 and Russet Norkotah296 had the highest total yield. Russet Norkotah112 and Russet Norkotah223 had the highest marketable yield (Table 6a).
- AOTX98152-3Ru and COTX06221-1Ru had the highest yield of over 18 oz. tubers, while COTX05095-2Ru/Y had the highest yield of less than 4 oz. tubers (Table 6a).
- COTX06221-1Ru had the highest yield of culls/No.2 tubers (Table 6a).
- AOTX06016-1Ru, AOTX98202-1Ru, and AOTX96265-2Ru had the highest percentages of marketable yield, while AOTX06116-1Ru and COTX06221-1Ru had the highest percentage of over 18 oz. tubers (Table 6b).
- ATTX03475-10Ru and AOTX95265-4Ru had the highest percentage of less than 4 oz. tubers, while COTX06221-1Ru and Russet Norkotah had the highest percentage of culls/No. 2 tubers (Table 6b).
- AOTX06026-1Ru, ATX05142-2Ru, and ATX9332-12Ru had the highest specific gravity (Table 6b).

- COTX06221-1Ru, ATTX03475-7Ru, ATX97147-4Ru, ATX9332-12Ru, AOTX96265-2Ru, and COTX06052-2Ru were the latest maturing, while AOTX06016-1Ru, Stampede Russet, ATX99194-3Ru, and ATX91137-1Ru were the earliest maturing (Table 6c).
- AOTX06116-Ru had the highest percentage of hollow heart (Table 6d).
- AOTX06016-1Ru and AOTX06116-1Ru had 11% and 17% Zebra Chip. All of the rest of the entries showed less than 4% Zebra Chip (Table 6f).

Comments on entries:

- |                      |               |   |
|----------------------|---------------|---|
| • Russet Norkotah112 | Long Russet   | high yield, thin, skinny                                      |
| • Russet Norkotah296 | Long Russet   | pointed, skinny   |
| • Russet Norkotah223 | Long Russet   | skinny  |
| • AOTX98152-3Ru      | Long Russet   | large tubers, rough   |
| • COTX05095-2Ru/Y    | Oblong Russet | keep for yellow flesh, heavy set, pointed                     |
| • Russet Norkotah278 | Long Russet   | skinny, nice  |
| • AOTX95265-3Ru      | Long Russet   |   |
| • COTX06221-1Ru      | Long Russet   | oversized, drop++, deep eyes, yield parent, rough, high yield |
| • AOTX98096-1Ru      | Oblong Russet | pointed, shape ok, drop?, poor internals                      |
| • TXA549-1Ru         | Oblong Russet | blocky  |
| • AOTX95265-1Ru      | Long Russet   | nice, pointed, bad rep, drop?                                 |
| • AOTX98202-1Ru      | Long Russet   | BOT, high yield, slight feathering, nice, bad rep?            |
| • ATTX03475-7Ru      | Oblong Russet | high yield, BOT, bad rep, drop?                               |
| • ATX84378-6Ru       | Oblong Russet | BOT, growth cracks, blocky, light set                         |
| • AOTX96084-1Ru      | Long Russet   | keep  |
| • ATX99013-1Ru       | Long Russet   |   |
| • COTX05095-1Ru      | Long Russet   | white flesh, pointed, drop++                                  |
| • ATTX03475-9Ru      | Oblong Russet | blocky, bad rep, 5 tubers in Rep 1                            |
| • Russet Norkotah    | Long Russet   | nice rep, skinny  |
| • ATX97147-4Ru       | Long Russet   | poor shape  |
| • AOTX06048-1Ru      | Long Russet   | drop+   |
| • ATTX03475-10Ru     | Oblong Russet | keep, light russet  |
| • AOTX06016-1Ru      | Oblong Russet | low yield, drop++   |

- AOTX02060-1Ru Long Russet skinny, drop, nice
- AOTX96216-2Ru Oblong Russet BOT, light set, large tubers
- AOTX06026-1Ru Oblong Russet blocky, poor internals, drop?
- Stampede Russet Oblong Russet tuber moth, light set, nice flesh
- AOTX96208-1Ru Oblong Russet Rhizoctonia, drop+
- ATX9202-3Ru Long Russet deep eyes, drop++
- ATX99194-3Ru Oblong Russet mixed, drop++++
- ATX91137-1Ru Long Russet
- ATX05142-2Ru Oblong Russet feathering, pointed, very white flesh, drop++, nice shape, low yield
- ATX9332-12Ru Oblong Russet small
- AOTX96265-2Ru Oblong Russet nice, nice shape
- AOTX06116-1Ru Long Russet nice rep, large tubers, blocky, drop ( bad rep?), light set, keep
- TXNS551 Oblong Russet nice but small
- COTX06052-2Ru Oblong Russet blocky, drop++++
- TXNS410 Oblong Russet
- AOTX95265-4Ru Oblong Russet bad rep, drop++
- AOTX06077-1Ru Long Russet discarded

Summary:

Based on all factors, the outstanding entries in this trial were Russet Norkotah112, Russet Norkotah278 and AOTX95265-3Ru. Other deserving mention were AOTX98202-1Ru, ATTX03475-7Ru, ATX84378-6Ru, and AOTX96216-2Ru

**2009 RUSSET SELECTIONS TRIAL, DALHART**

The trial consisted of 104 entries of which 14 (ATTX06008-2Ru, ATTX06008-6Ru, ATTX06026-1Ru, COTX07009-7Ru, COTX07009-8Ru, COTX07018-2Ru, COTX07024-1Ru, COTX07024-4Ru, COTX07179-2Ru, COTX07199-2Ru, COTX07206-1Ru, COTX07299-1Ru, COTX07354-1Ru, and COTX07380-2Ru) will be advanced in 2011 (Table 7).



## TEXAS ADVANCED RED SELECTION TRIAL, DALHART

This trial consisted of 25 entries and the check varieties Red LaSoda, Rio Rojo, Chieftain, and Dark Red Norland

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

- The outstanding entry based on general rating and best of trial designation was NDTX4271-5R. NDTX4784-7R also had a best of trial designation, while BTX2332-1R, ATX03516-2R, NDTX050070-1R, NDTX5438-11R, COTX94216-1R, ATTX98453-11BR, Rio Rojo, and NDTX731-1R also had high general rating (Tables 8a, and 8e).
- BTX2332-1R and ATX03516-2R had the highest total yield. BTX2332-1R and COTX06169-3R had the highest marketable yield (Table 8a).
- ATX03516-2R and AOTX93483-1R had the highest yield of over 10-18 oz. tubers (Table 8a).
- COTX05211-7R had the highest yield of less than 4 oz tubers (Table 8a).
- COTX06169-3R had the highest percentage marketable yield (Table 8b).
- AOTX93483-1R had the highest percentage of over 10-18 oz. tubers. (Table 8b).
- COTX05211-7R and NDTX050239-2R had the highest percentage of less than 4 oz. tubers (Table 8b).
- NDTX050239-2R and ATTX98453-6R had the highest specific gravities (Table 8b)
- BTX2332-1R, AOTX91861-4R, NDTX050070-1R, Red LaSoda, ATTX01178-1R, and AOTX937483-1R were the latest maturing, while ATX03516-2R, Dark Red Norland, and Rio Rojo were the earliest maturing (Table 8c).
- Red LaSoda had the deepest eyes. BTX2332-1R and AOTX93483-1R had the poorest rating for feathering. NDTX731-1R had the highest percentage of vascular discoloration (Table 8d).
- None of the entries had any Zebra Chip (Table 8f).

### Comments on entries:

- |                 |            |                                       |
|-----------------|------------|---------------------------------------|
| • BTX2332-1R    | Round Red  | heat sprouts+, feathering, nice flesh |
| • ATX03516-2R   | Round Red  | large tubers, heat sprouts            |
| • COTX06169-3R  | Round Red  | only 2 tubers in 1 rep                |
| • COTX05211-7R  | Oblong Red | keep, road map, drop, heavy set       |
| • AOTX91861-4R  | Oblong Red | silver scurf                          |
| • NDTX050070-1R | Round Red  | does not oversize, road map           |

- Dark Red Norland Oblong Red road map, deep eyes
- Red LaSoda Oblong Red rough, deep eyes
- NDTX4784-7R Round Red BOT-, heat sprouts, bad rep(drop?), nice
- COTX94218-1R Round Red heavy set, B size, silver scurf, sticky stolon
- NDTX5438-11R Oblong Red heat sprouts, smooth, nice +
- COTX94216-1R Oblong Red silver scurf, pronounced eyes
- COTX05211-4R Oblong Red
- ATTX98453-11BR Oblong Red heat sprouts, small
- Rio Rojo Oblong Red growth crack
- NDTX731-1R Round Red sand paper skin
- ATTX01178-1R Round Red feathering
- COTX00104-7R Oblong Red ugly, pointed, drop++, road map, heat sprouts, sticky stolon, poor skin finish
- NDTX4271-5R Round Red sticky stolon, heat sprouts, BOT
- AOTX93483-1R Oblong Red feathering, heat sprouts, drop
- Chieftain Round Red
- NDTX050239-2R Round Red heat sprouts, small, low yield, silver scurf, road map, good color
- ATX03550-2R Oblong Red drop, light set, low yield
- NDTX039190-1R Round Red 4 tubers in rep 1, bad rep, silver scurf, drop
- ATTX98453-6R Round Red 2 tubers in rep 1, light set

Summary:

Based on all factors, the outstanding entries for this trial were BTX2332-1R and ATX03516-2R

**2009 RED SELECTIONS TRIAL, DALHART**

The trial consisted of 53 entries of which five (ATTX06246-1R, ATX07144-1R, COTX07054-2R, COTX07154-1R, and NDTX071407B-2R) (Table 9) will be advanced in 2011.

**TEXAS ADVANCED RED SKIN/YELLOW FLESH SELECTION TRIAL**

The Texas advanced red skin/yellow flesh selection trial consisted of 27 entries.

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

- The outstanding entries for this trial based on general rating and best of trial designations was ATTX961014-1BR/Y. Other entries receiving high general ratings were NDTX050184-1R/Y, COTX01403-4R/Y, ATTX961014-1R/Y, ATX05175-3R/Y, ATX03515-1R/Y, COTX04188-3R/Y, ATTX03516-2R/Y, and COTX06245-3R/Y (Table 10a, 10e).
- ATTX00289-5R/Y and NDTX050184-1R/Y had the highest total yield. ATTX00289-5R/Y and COTX01403-4R/Y had the highest marketable yields (Table 10a)
- COTX01403-4R/Y and COTX06245-3R/Y had the highest yield of over 10-18 oz. tubers (Table 10a).
- NDTX050184-1R/Y and ATTX98510-1R/Y had the highest yield of less than 4 oz. tubers, while ATTX00289-5R/Y had the highest yield of culls/No. 2 tubers (Table 10a).
- COTX01403-4R/Y and COTX06235-2R/Y had the highest percentage of marketable yield (Table 10b).
- COTX01403-4R/Y and COTX06245-3R/Y had the highest percentage over 10-18 oz. tubers (Table 10b).
- ATX05175-3R/Y and COTX04188-3R/Y had the highest percentage of less than 4 oz. tubers, while ATTX00289-5R/Y had the highest percentage of culls/No. 2 tubers (Table 10b).
- ATTX88654-2P/Y and COTX04188-3R/Y had the highest specific gravity (Table 10b).
- ATTX00289-5R/Y, NDTX050184-1R/Y, ATTX98510-1R/Y, ATTX88654-2P/Y, ATTX05191-3R/Y, COTX06235-2R/Y, ATX06282-1R/Y, and BTX2103-1R/Y were the latest maturing, while NDTX060725-1P, COTX04193-2R/Y, and ATX03515-1R/Y were the earliest maturing (Table 10c).
- COTX04267-1R/Y, COTX06235-2R/Y, COTX04193-2R/Y, BTX2103-1R/Y, and ATTX03516-2R/Y had the darkest yellow flesh color of the entries (Table 10d).
- COTX06235-2R/Y and ATX06282-1R/Y had the poorest ratings for feathering (Table 10d).
- ATTX03553-1P/Y, NDTX060868-4R/Y, and COTX06245-3R/Y had over 8% Zebra Chip. All of the other entries had less than 5% Zebra Chip (Table 10f).

Comments on entries:

- ATTX00289-5R/Y Oblong Red yield+, heat sprouts, sticky stolon, silver scurf, drop+++  
<sup>1</sup>FC=2
- NDTX050184-1R/Y Round Red b size, small potato?? FC=2.5
- ATTX98510-1R/Y Oblong Red heavy set, drop++ FC=1.5
- ATTX961014-1BR/Y Oblong Red smooth, BOT FC=2

- ATTX88654-2P/Y Round Purple light flesh, silver scurf, heat sprouts, drop, deep nose and eyes FC=1.5
- COTX01403-4R/Y Oblong Red large tubers, heat sprouts, smooth FC=2.3
- ATTX961014-1R/Y Oblong Red silver scurf+, light flesh FC=1.8
- ATTX03553-1P/Y Round Purple deep eyes, poor skin finish, drop, poor internal, low yield, road map FC=1.5
- COTX04267-1R/Y Round Red drop FC=3
- COTX06240-2R/Y Oblong Red silver scurf, bad rep FC=2.5
- ATX03546-2R/Y Round Red silver scurf, nice flesh, heat sprouts, mixed flesh color, drop+ FC=2.5
- NDTX060725-1P Round Purple nice, silver scurf, road map FC=1
- ATTX05191-3R/Y Oblong Red drop, heat sprouts, poor internal FC=2
- COTX06235-2R/Y Oblong Red nice shape, silver scurf FC=3
- COTX04193-2R/Y Round Red keep, silver scurf, heat sprouts, mix FC=3
- ATX05175-3R/Y Round Red B size FC=2.1
- ATX03515-1R/Y Oblong Red crisp FC=2
- NDTX060868-4R/Y Oblong Red FC=2
- COTX04188-3R/Y Round Red heat sprouts, smooth, B size, small potato??, small FC=2.9
- ATX06282-1R/Y Round Red feathering, heat sprouts, pointed, sticky stolon FC=2.3
- BTX2103-1R/Y Oblong Red drop?, heat spouts, silver scurf FC=3
- ATTX03516-2R/Y Oblong Red smooth FC=3
- COTX06245-3R/Y Oblong Red large tubers, pointed FC=2.5
- ATTX02249-1R Drop
- ATTX99325-1P Drop
- ATX98448-6R/Y Drop
- COTX05261-1R/Y Drop

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

Summary:

Based on all factors the outstanding entries for this trial were NDTX050184-1R/Y, ATTX961014-1BR/Y, COTX01403-4R/Y, and ATTX961014-1R/Y.

## **TEXAS ADVANCED WHITE SKIN YELLOW FLESH TRIAL**

This trial consisted of 20 entries, including Yukon Gold and Sierra Gold as check varieties.

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

- The outstanding entries for this trial, based on general ratings were BTX1749-1W/Y, and Yukon Gold. NDTX059759-3Pinto/Y also received a best of trial designation (Tables 11a and 11e).
- NDTX050169-2W/Y and NDTX049265-2WRSP/Y had the highest total and marketable yield (Table 11a).
- Yukon Gold had the highest yield of over 10 oz. tubers. NDTX050169-2W/Y and TX06308-1Y/Y had the highest yield of less than 4 oz. tubers, while NDTX050169-2W/Y had the highest yield of culls/No. 2 tubers (Table 11a).
- Sierra Gold had the highest percentage of marketable yield (Table 11b).
- Yukon Gold had the highest percent yield of over 10 oz. tubers. TX06308-1Y/Y and TX06308-2Y/Y had the highest percentage of less than 4 oz. tubers, while ATX05188-1Y/Y and BTX1544-2W/Y had the highest percentage of culls/No. 2 tubers (Table 11b).
- NDTX060700C-1W had the highest specific gravities (Table 11b).
- ATTX98500-3PW/Y, TX06308-1Y/Y, and ATX06354-1W/Y were the latest maturing, while BTX1749-1W/Y, BTX1544-2W/Y, and ATX03496-3Y/Y were the earliest maturing (Table 11c).
- ATX03496-3Y/Y had dark yellow flesh (Table 11d).
- TX04237-6R/Y had 28% hollow heart (Table 11d).
- ATTX98500-3PW/Y had 25% Zebra Chip, while NDTX050169-2W/Y, NDTX049265-2WRSP/Y, BTX1749-1W/Y, Yukon Gold, and ATX06354-1W/Y had at least 10% Zebra Chip. All of the other entries had less than 8% Zebra Chip. NDTX060700C-1W received a best of trial for chip evaluations (Table 11f).

Comments on entries:

- NDTX050169-2W/Y Oblong White heavy set, small, rough, baby baker, pear shape, ugly, lenticels, drop++ FC=1.8
- NDTX049265-2WRSP/Y Oblong White-Red Splsh rough, drop++ FC=2.5
- NDTX060868-3Y/Y Long Yellow pear shaped, keep?, fingerling?, pointed FC=2.5
- ATTX98500-3PW/Y Oblong Purple-White pointed, purple pinto, poor shape, drop++ FC=3.0
- TX06308-1Y/Y Oblong Yellow baby baker, small, heat sprouts, drop, heavy set, small potato FC=2.0
- BTX1749-1W/Y Oblong White FC=2.0
- TX04237-6Y/Y Round Yellow mixed flesh color, drop FC=1.9
- NDTX050025-1W/Y Oblong White lenticels, heavy set, baby baker FC=1.5
- Yukon Gold Oblong White oversized, smooth, ZC+ FC=3.0
- BTX1544-2W/Y Oblong White FC=2.3
- TX06308-2Y/Y Oblong Yellow heat sprouts, small potato?? FC=2.0
- ATX03496-3Y/Y Oblong Yellow egg shaped, lenticels, nice flesh, heat sprouts, smooth, keep? FC=3.1
- NDTX059759-3Pinto/Y Oblong Pinto BOT-, red pinto, some purple streaks in flesh, nice flesh, keep?, bad rep FC=3.0
- NDTX050264-1W Round White small potato??, keep, drop FC=1.6
- NDTX060700C-1W Round White nice shape, small, drop++ FC=1.0
- TX1674-1W/Y Oblong White keep, nice flesh, drop FC=3.0
- Sierra Gold Oblong Russet bad rep, rough, pointed FC=2.5
- ATX06354-1W/Y Oblong White heat sprouts, drop++ FC=2.0
- ATX05188-1Y/Y Round Yellow drop+++, pear shaped, heat sprouts FC=1.5
- ATTX00289-6Y/Y Oblong Yellow red eyes, poor appearance FC=2.5

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

#### Summary:

Based on all factors, the outstanding entries for this trial were Yukon Gold and BTX1749-1W/Y. NDTX060700C-1W should be moved to the chip trial.

## **2009 WHITE SKIN YELLOW FLESH SELECTIONS TRIAL, DALHART**

The trial consisted of 40 entries of which four (ATX06274-2W, COTX07382-1W/Y, COTX07382-2W/Y, and NDTX081451CB-1Y/Y) (Table 12) will be advanced in 2011.

## **TEXAS ADVANCED SMALL POTATO SELECTION TRIAL**

This trial consisted of 11 entries.

Results were as follows: (Dalhart Tables 13a, 13b, 13c, 13d, 13e, and 13f)

- The outstanding entry for this trial based on general rating and best of trial designations was ATX05202-3W/Y. ATTX05175-1R/Y and ATTX98444-16R/Y also received a high general rating (Tables 13a and 13e).
- ATX05202-3W/Y had the highest total yield. NDTX059886-1Y/Y and ATX03546-1W/Y-P had the highest yield of 2-2.5 inch tubers. ATX05202-3W/Y had the highest yield of over 2.5 and less than 2 inch tubers (Table 13a)
- ATX05202-3W/Y had the highest yield of culls/No. 2 tubers (Table 13a).
- ATX02263-1R/Y had the highest percentage of 2-2.5 inch tubers (Table 13b).
- ATTX98444-16R/Y had the highest specific gravity (Table 13b).
- ATX05202-3W/Y had the highest average number of tubers per plant (Table 13c).
- ATX05202-3W/Y, NDTX059886-1Y/Y, ATX03546-1W/Y-P, ATTX05175-1R/Y, and COTX04050-1P/P were the latest maturing, while ATTX98444-16R/Y, ATX02263-1R/Y, and ATX03546-1W/Y were the earliest maturing (Table 13c).
- ATX05202-3W/Y had 11% Zebra Chip (Table 13f).

### Comments on entries:

- |                   |              |   |
|-------------------|--------------|---|
| • ATX05202-3W/Y   | Round White  | send to Mel, nice, BOT                                |
| • NDTX059886-1Y/Y | Round Yellow |   |
| • ATX03546-1W/Y   | Round Yellow | no purple streak in flesh, poor shape                 |
| • ATTX05175-1R/Y  | Round Red    | deep eyes, nice flesh, smaller tubers have nice shape |
| • COTX04050-1P/P  | Round Purple | silver scurf, variable flesh color                    |

- ATTX98444-16R/Y Round Red poor shape
- ATX02263-1R/Y Round Red light set, larger tubers are smooth
- ATX03546-1W/Y Round White drop, poor shape
- ATX9132-2Y Drop
- COTX04178-1Y/Y Drop
- COTX05037-4Y/Y Drop

Summary:

Based on all factors the outstanding entries for this trial were ATX05202-3W/Y and ATTX05175-1R/Y.

**2009 SMALL POTATO SELECTIONS TRIAL, DALHART**

The trial consisted of nine entries of which four (ATX06264-4R/Y, ATX07305-1Y/Y, ATX07365-1W, and NDTX071258B-1R) (Table 14) will be advanced in 2011.

**TEXAS ADVANCED FINGERLING SELECTION TRIAL**

This trial consisted of five entries, including the check varieties Banana and Purple Peruvian.

Results were as follows: (Dalhart Tables 15a, 15b, 15c, 15d, and 15e)

- The outstanding entries for this trial based on general ratings were COTX03187-1W and PTTX05PG07-1W (Table 15a).
- COTX03187-1W had the highest total and marketable yield (Table 15a)
- COTX03187-1W had the highest yield of over 4 inch and culls/No. 2 tubers (Table 15a).
- PTTX05PG07-1W and ATTX02247-1R had the highest percentage of marketable yield. Banana had the highest percentage of culls/No. 2 tubers (Table 15b).
- COTX03187-1W had the highest specific gravity (Table 15b).
- Purple Peruvian had the highest average number of tubers per plant (Table 15c).
- COTX03187-1W, Banana, Purple Peruvian, and ATTX02247-1R were the latest maturing, while PTTX05PG07-1W was the earliest maturing (Table 15c).



Comments on entries:

- COTX03187-1W Long White smooth, nice
- PTTX05PG07-1W Long White more small tubers
- Purple Peruvian Long Purple deep eyes
- Banana Long White rough
- ATTX02247-1R Long Red some pointed, low yield

Summary:

Based on all factors the outstanding entries for this trial were COTX03187-1W and PTTX05PG07-1W.

**2009 FINGERLING SELECTIONS TRIAL, DALHART**

The trial consisted of 17 entries of which 4 (COTX07168-1Ru, COTX07172-1W, TX08378-1R/R, and TX08378-3R) will be advanced in the 2011 season (Table 16).

**TEXAS ADVANCED YUKON GOLD STRAIN TRIAL**

This trial consisted of 6 entries, including the check varieties Yukon Gold and Sierra Gold.

Results were as follows: (Dalhart Tables 17a, 17b, 17c, 17d, 17e, and 17f)

- The outstanding entries for this trial based on general ratings and best of trial designations were TXYG098 and TXYG079 (Table 15a).
- TXYG098 and TXYG055 had the highest total yield, while TXYG055 and TXYG057 had the highest marketable yield (Table 15a)
- Yukon Gold and TXYG079 had the highest yield of over 10 oz. tubers, while TXYG098 and TXYG057 had the highest yield of under 4 oz. tubers. TXYG098 and Yukon Gold had the highest yield of culls/No. 2 tubers (Table 15a).
- TXYG055 had the highest percentage of marketable yield. Yukon Gold had the highest percentage of culls/No. 2 tubers (Table 15b).
- TXYG079 had the highest specific gravity (Table 15b).
- Sierra Gold had the highest average number of tubers per plant (Table 15c).
- Yukon Gold and TXYG098 had 18% and 13% Zebra chip at grading (Table 15f).

Comments on entries:

- |               |              |                                   |
|---------------|--------------|-----------------------------------|
| • TXYG098     | Oblong White | oversized, yield+, BOT- FC=3.5    |
| • TXYG055     | Oblong White | smaller than other strains FC=3.5 |
| • TXYG057     | Oblong White | lighter yield FC=3.5              |
| • TXYG079     | Oblong White | larger tubers, BOT- FC=3.5        |
| • Yukon Gold  | Oblong White | oversized, smooth, ZC+ FC=3.0     |
| • Sierra Gold | Oblong White | bad rep, rough, pointed FC=2.5    |

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

Summary:

Based on all factors the outstanding entries for this trial were TXYG098 and TXYG079

**NATIONAL BREEDERS' CHIP TRIAL**

*National Breeders' Chip Trial.* At the request of the National Potato Promotion Board, breeders from 11 of the 13 U.S. public breeding programs met in Chicago, IL on December 15, 2009 to discuss the possibility of accelerating chip variety development in the U.S. The objective of the meeting was to devise a strategy for rapid evaluation of advanced chip selections, with the goal of developing new varieties which bulk faster or as fast as Atlantic (without the problems of Atlantic, such as heat necrosis, etc.) and store longer than Snowden. These are the most popular public varieties currently in use. A major constraint in current chip variety development has been the availability of disease-free seed in sufficient quantities to test advanced selections. Current regional and national chip trial protocol requires from 100 to 550 lbs of seed per entry. This goal has proven very difficult for the various programs to meet and has greatly restricted the number of entries, resulting in limited progress in the release of new chip varieties.

The group determined that an alternative strategy might be early generation evaluation using a very limited quantity of seed. It was decided that there would be nine sites. There would be a Southern tier (California, North Carolina, Florida, and Texas) and a Northern tier (New York, Michigan, Wisconsin, North Dakota, and Minnesota). Each site would require enough seed to plant 15 hills, requiring a total of only 20 lbs per entry. Each breeding program could submit 10 or more entries, with no more than 250 total entries.

The Texas trial was conducted near Dalhart. This trial consisted of 245 entries including the check varieties Atlantic and Snowden.

Results were as follows: (Table 18a)

Dalhart  
Table 1a.

Total yield, total yield of U.S. No.1, under 3" and culls/No.2 potatoes and general rating of 7 entries in the Western Regional Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Under 1 in.	Culls/ No.2	General Rating <sup>1</sup> Grading	
		Total Yield	1-2 in.	2-3 in.				Over 3 in.
CO00188-4W	406.3	378.4	72.9	267.7	37.8	4.1	23.8	3.5
Atlantic	393.2	389.7	34.3	271.2	84.2	0.0	3.5	3.6
CO00197-3W	383.0	356.0	70.0	233.5	52.6	0.6	26.4	2.5
A01143-3C	315.1	307.2	55.8	222.4	29.0	2.3	5.5	2.6
CO00270-7W	273.8	250.9	30.5	160.3	60.1	2.6	20.3	2.3
A00188-3C	260.5	240.2	38.0	182.7	19.5	1.2	19.2	2.9
Chipeta	172.8	164.9	21.5	131.8	11.6	0.0	7.8	2.5
Average	315.0	298.2	46.1	210.0	42.1	1.5	15.2	2.8
L.S.D. (.05)	31.2	33.9	31.4	44.9	42.1	ns	16.6	0.1

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

Dalhart  
Table 1b.

Percent by weight of U.S. No. 1, under 3" type and culls/No.2 potatoes, specific gravity, tuber type and skin type of 7 entries in the Western Regional Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight		Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	1-2 in.	2-3 in.	Over 3 in.	Under 1 in.	Culls/ No. 2				
CO00188-4W	93.1	18.5	66.0	8.6	0.9	6.0	1.064	14.0	Round	White
Atlantic	99.1	8.9	68.5	21.7	0.0	0.9	1.071	15.2	Oblong	Buff
CO00197-3W	92.9	18.4	60.9	13.6	0.2	6.9	1.062	13.6	Round	White
A01143-3C	97.6	17.3	70.7	9.6	0.8	1.7	1.058	12.9	Round	White
CO00270-7W	92.3	11.6	59.4	21.3	1.0	6.8	1.054	12.1	Round	White
A00188-3C	92.5	14.5	70.4	7.5	0.4	7.1	1.063	13.8	Oblong	White
Chipeta	95.6	13.4	76.1	6.1	0.0	4.4	1.052	11.9	Round	White
Average	94.7	14.6	67.4	12.6	0.5	4.8	1.061	13.4		
L.S.D. (.05)	ns	ns	9.2	ns	ns	ns	0.008	1.4		

Dalhart  
Table 1c.

Average number of tubers per plant, average tuber weight, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 7 entries in the Western Regional Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
CO00188-4W	5.6	5.3	93	100	1.5	4.4	3.0	4.6	43
Atlantic	5.3	5.3	93	96	1.8	4.6	3.6	4.6	15
CO00197-3W	6.9	3.6	85	100	1.5	4.7	3.8	4.5	11
A01143-3C	5.7	4.0	95	100	1.5	4.9	5.0	4.9	0
CO00270-7W	3.8	4.7	70	100	1.5	4.7	3.8	4.6	11
A00188-3C	4.7	3.7	96	100	1.8	4.0	4.7	4.0	4
Chipeta	2.6	4.4	98	100	1.5	4.8	5.0	4.9	0
Average	4.9	4.4	90	99	1.6	4.6	4.1	4.6	12
L.S.D. (.05)	1.5	ns	11	ns	ns	0.2	0.3	0.6	15

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

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

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

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

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 7 entries in the Western Regional Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	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
CO00188-4W	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
Atlantic	1.0	3.0	2.0	4.5	2.0	5.0	5.0	5.0	5.0	5.0	5	0	0	8
CO00197-3W	1.0	2.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A01143-3C	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	3.5	3	0	0	0
CO00270-7W	1.0	2.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
A00188-3C	1.0	3.4	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	3	0	0
Chipeta	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Average	1.0	2.2	1.1	4.5	1.1	5.0	5.0	5.0	5.0	4.8	2	0	0	1
L.S.D. (.05)	ns	0.1	0.1	ns	0.1	ns	ns	ns	ns	0.1	ns	ns	ns	ns

<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 7 entries in the Western Regional Chip  
Trial grown near Dalhart, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
CO00188-4W		3.5, 3.6, 3.2, 3.5
Atlantic	4% heat necrosis	3.6, 3.6, 3.6, 3.6
CO00197-3W	poor shape, drop, rough, ugly	2.5, 2.6, 2.6, 2.3
A01143-3C	feathering, small	2.6, 2.6, 2.6, 2.6
CO00270-7W	sticky stolon	2.3, 2.3, 2.2, 2.2
A00188-3C	rough	2.8, 3, 2.8, 2.8
Chipeta	low yield, small	2.5, 2.5, 2.5, 2.5



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 7 entries in the Western Regional Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
CO00188-4W	1.064	14.0	3.5	1	22/8	2 MB	0%	0%
Atlantic	1.071	15.2	3.6	2	13/17	GH; 1HH, 1B	0%	0%
CO00197-3W	1.062	13.6	2.5	1	53/25	1 dark	1%	0%
A01143-3C	1.058	12.9	2.6	1	7/13		0%	0%
CO00270-7W	1.054	12.1	2.3	1	11/9		0%	0%
A00188-3C	1.063	13.8	2.9	1	15/5	BOT	0%	0%
Chipeta	1.052	11.9	2.5	2	17/21		11%	0%

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

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

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

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

Dalhart  
Table 2a.

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 Southwestern Regional Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Under 1 in.	Culls/ No.2	General Rating <sup>1</sup> Grading	
		Total Yield	1-2 in.	2-3 in.				Over 3 in.
AC01151-5W	409.2	376.1	125.2	218.7	32.2	20.3	12.8	3.1
CO02033-1W	406.9	376.6	90.3	233.5	52.9	13.1	17.1	3.0
CO02024-9W	370.8	359.5	86.5	234.6	38.3	3.8	7.6	3.1
Atlantic	369.7	366.2	32.2	241.9	92.1	0.0	3.5	3.6
CO02321-4W	340.3	329.9	26.4	218.1	85.4	0.3	10.2	3.4
Chipeta	275.6	267.7	29.0	207.1	31.7	0.0	7.8	2.5
Average	362.1	346.0	65.0	225.6	55.4	6.2	9.8	3.1
L.S.D. (.05)	82.9	ns	56.4	ns	ns	ns	ns	0.4

<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 6 entries in the Southwestern Regional Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight		Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	1-2 in.	2-3 in.	Over 3 in.	Under 1 in.	Culls/ No. 2				
AC01151-5W	91.8	30.8	53.5	7.5	5.2	3.0	1.056	12.5	Round	White
CO02033-1W	92.9	22.0	57.4	13.5	3.0	4.1	1.057	12.7	Oblong	White
CO02024-9W	97.1	22.9	62.0	12.1	1.0	1.9	1.062	13.6	Round	White
Atlantic	99.1	8.8	64.8	25.5	0.0	0.9	1.071	15.2	Oblong	Buff
CO02321-4W	96.8	7.9	64.1	24.9	0.1	3.1	1.066	14.3	Oblong	White
Chipeta	97.1	11.5	75.5	10.1	0.0	2.9	1.052	11.9	Round	White
Average	95.8	17.3	62.9	15.6	1.5	2.7	1.061	13.4		
L.S.D. (.05)	ns	13.0	ns	ns	ns	ns	0.009	1.6		

Dalhart  
Table 2c.

Average number of tubers per plant, average tuber weight, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 6 entries in the Southwestern Regional Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
AC01151-5W	9.7	3.0	100	100	1.5	4.4	3.6	4.6	15
CO02033-1W	8.2	3.6	90	100	2.0	4.5	4.0	4.4	14
CO02024-9W	7.2	3.9	86	100	1.8	4.5	4.5	4.4	3
Atlantic	4.9	5.4	93	96	1.8	4.6	3.6	4.6	15
CO02321-4W	4.3	5.5	64	100	1.5	4.3	3.5	4.3	28
Chipeta	3.9	4.7	98	100	1.5	4.8	5.0	4.9	0
Average	6.4	4.3	88	99	1.7	4.5	4.0	4.5	12
L.S.D. (.05)	3.1	1.4	15	ns	ns	0.3	0.5	0.3	14

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

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

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

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

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 6 entries in the Southwestern Regional Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	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
AC01151-5W	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	3.5	3	0	0	0
CO02033-1W	1.0	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
CO02024-9W	1.0	1.5	1.5	4.5	1.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Atlantic	1.0	3.0	2.0	4.5	2.0	5.0	5.0	5.0	5.0	5.0	5	0	0	8
CO02321-4W	1.0	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	3
Chipeta	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Average	1.0	2.4	1.3	4.5	1.3	5.0	5.0	5.0	5.0	4.5	3	0	0	2
L.S.D. (.05)	ns	0.1	0.1	ns	0.1	ns	ns	ns	ns	0.1	ns	ns	ns	ns

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

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

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

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

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

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

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

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

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

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

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

Dalhart  
Table 2e. Notes and general rating for all reps of 6 entries in the Southwestern Regional Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
AC01151-5W	feathering, deep nose, small, heavy set, light set	3.3, 3.4, 2.4, 3.2
CO02033-1W	heavy set, poor shape,	3.6, 3, 3, 2.5
CO02024-9W	feathering, heavy set, small, nice and uniform, rough+	3.2, 3.2, 3, 3
Atlantic	4% heat necrosis	3.6, 3.6, 3.6, 3.6
CO02321-4W		3.2, 3.2, 3.4, 3.6
Chipeta	low yield, small	2.5, 2.5, 2.5, 2.5

Dalhart  
Table 2f.

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 6 entries in the Southwestern Regional Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	General Rating <sup>1</sup>	Tuber Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
AC01151-5W	1.056	12.5	3.1	2	9/8		0%	0%
CO02033-1W	1.057	12.7	3.0	1	24/17	1 HH	0%	0%
CO02024-9W	1.062	13.6	3.1	1	13/7		10%	0%
Atlantic	1.071	15.2	3.6	2	13/17	1 GH; 1HH, 1BC	0%	0%
CO02321-4W	1.066	14.3	3.4	1	11/4	BOT-	0%	0%
Chipeta	1.052	11.9	2.5	2	17/21		11%	0%

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

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

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

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

Dalhart  
Table 3a.

Total yield, total yield of U.S. No.1, under 1 inch and culls/No.2 potatoes and general rating of 9 entries in the Texas  
Advanced Chip Selection and Commercial Variety Trial grown near Dalhart, Texas-2010.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Under 4 oz.	Culls/ No.2	General Rating <sup>1</sup> Grading
		Total Yield	1-2 in.	2-3 in.	Over 3 in.			
FL1922	493.5	469.3	72.6	313.1	83.6	0.4	23.8	2.5
NY138	479.7	467.5	53.4	339.8	74.3	0.0	12.2	3.5
FL1833	476.5	469.9	35.1	325.5	109.2	0.9	5.8	3.4
FL1867	460.0	444.9	54.0	292.1	98.7	0.9	14.2	3.3
FL2053	412.1	404.2	57.2	245.1	101.9	0.3	7.6	2.9
FL2048	408.3	393.8	91.2	199.2	103.4	2.6	11.9	3.4
Snowden	390.4	385.9	55.8	279.4	50.8	0.1	4.4	3.3
Atlantic	369.7	366.2	32.2	241.9	92.1	0.0	3.5	3.6
COTX90046-1W	240.0	228.3	34.0	152.5	41.8	1.0	10.7	3.0
Average	414.5	403.3	53.9	265.4	84.0	0.7	10.5	3.2
L.S.D. (.05)	68.4	63.7	ns	63.2	ns	ns	ns	ns

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



Dalhart  
Table 3b.

Percent by weight of U.S. No. 1, under 1 inch and culls/No.2 potatoes, specific gravity, tuber type and skin type of 9 entries in the Texas Advanced Chip Selection and Commercial Variety Trial grown near Dalhart, Texas-2010.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight		Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	1-2 in.	2-3 in.	Over 3 in.	Under 1 in.	Culls/ No. 2				
FL1922	95.0	14.6	63.5	16.9	0.1	4.9	1.058	12.9	Oblong	White
NY138	97.4	11.3	70.8	15.3	0.0	2.6	1.062	13.5	Round	White
FL1833	98.7	7.1	68.3	23.3	0.2	1.2	1.063	13.8	Round	White
FL1867	97.1	11.2	63.8	22.0	0.2	2.8	1.066	14.3	Oblong	White
FL2053	98.0	14.1	59.5	24.4	0.1	1.9	1.063	13.8	Oblong	White
FL2048	96.8	19.3	46.4	31.1	0.5	2.7	1.068	14.6	Oblong	White
Snowden	98.9	14.3	71.7	12.8	0.0	1.1	1.056	12.6	Round	White
Atlantic	99.1	8.8	64.8	25.5	0.0	0.9	1.071	15.1	Oblong	Buff
COTX90046-1W	95.0	13.7	63.2	18.1	0.4	4.5	1.057	12.8	Oblong	White
Average	97.3	12.7	63.6	21.0	0.2	2.5	1.063	13.7		
L.S.D. (.05)	ns	ns	10.3	ns	ns	ns	ns	ns		

Dalhart  
Table 3c. Average number of tubers per plant, average tuber weight, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 9 entries in the Texas Advanced Chip Selection and Commercial Variety Trial grown near Dalhart, Texas-2010.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
FL1922	6.7	4.8	95	100	2.5	3.3	4.2	3.4	10
NY138	7.0	4.7	81	100	2.0	3.4	2.6	3.7	45
FL1833	6.5	5.1	86	100	2.0	4.4	4.2	4.1	9
FL1867	6.8	4.6	96	100	2.5	4.0	2.5	3.7	63
FL2053	5.5	5.4	89	100	1.8	3.8	3.2	3.9	29
FL2048	6.4	5.1	48	100	1.5	4.1	4.2	4.2	6
Snowden	6.8	4.0	98	100	1.5	4.8	4.3	4.8	6
Atlantic	4.9	5.4	93	96	1.8	4.6	3.6	4.6	15
COTX90046-1W	3.9	4.1	50	100	1.5	4.3	3.6	4.6	13
Average	6.0	4.8	82	100	1.9	4.1	3.6	4.1	22
L.S.D. (.05)	ns	ns	12	2	0.4	0.4	0.9	0.4	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>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 9 entries in the Texas Advanced Chip Selection and Commercial Variety Trial grown near Dalhart, Texas-2010.

Variety or Selection	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
FL1922	1.0	3.5	1.5	3.5	1.5	5.0	5.0	5.0	5.0	5.0	0	0	3	0
NY138	1.0	2.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
FL1833	1.5	2.0	2.0	4.5	2.0	5.0	5.0	5.0	5.0	5.0	5	0	10	3
FL1867	1.0	3.5	2.0	4.5	2.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
FL2053	1.0	3.6	2.0	4.5	2.0	5.0	5.0	5.0	5.0	3.5	0	0	0	3
FL2048	1.0	3.4	2.0	4.5	2.1	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Snowden	1.0	1.5	2.5	4.5	2.5	5.0	5.0	5.0	5.0	5.0	3	0	0	0
Atlantic	1.0	3.0	2.0	4.5	2.0	5.0	5.0	5.0	5.0	5.0	5	0	0	8
COTX90046-1W	1.0	2.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Average	1.1	2.8	1.8	4.4	1.8	5.0	5.0	5.0	5.0	4.8	2	0	2	1
L.S.D. (.05)	ns	0.1	0.1	0.1	0.1	ns	ns	ns	ns	0.1	ns	ns	ns	ns

<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 3e.

Notes and general rating for all reps of 9 entries in the Texas Advanced Chip Selection and Commercial Variety Trial grown near Dalhart, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
FL1922	rough, pointed	2.8, 2.6, 2.2, 2.3
NY138	light set	3.6, 3.6, 3.5, 3.4
FL1833		3.3, 3.6, 3.6, 3
FL1867	flat, bad rep	3.4, 3.3, 3.2, 3.3
FL2053	drop, rough+, feathering	2.6, 2.8, 3, 3
FL2048	few large tubers, buff, oversized,	3.6, 3.4, 3.4, 3.2
Snowden	heavy set	3.5, 3.3, 3, 3.4
Atlantic	4% heat necrosis	3.6, 3.6, 3.6, 3.6
COTX90046-1W		3, 3.4, 3, 2.5

Dalhart  
Table 3f.

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 9 entries in the Texas Advanced Chip Selection and Commercial Variety Trial grown near Dalhart, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	General Rating <sup>1</sup>	Tuber Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
FL1922	1.058	12.9	2.5	1	34/6	1 HH, 1 BC	0%	0%
NY138	1.062	13.5	3.5	1	51/2	BOT+, 1 MB	0%	0%
FL1833	1.063	13.8	3.4	2	22/19		5%	0%
FL1867	1.066	14.3	3.3	1	23/7	BOT-	0%	0%
FL2053	1.063	13.8	2.9	1	25/18		2%	0%
FL2048	1.068	14.6	3.4	1	34/7	1 TM, 1 GH, BOT	0%	0%
Snowden	1.056	12.6	3.3	1	20/19	1 TM	0%	0%
Atlantic	1.071	15.1	3.6	2	13/17	1 GH; 1HH, 1BC	0%	0%
COTX90046-1W	1.057	12.8	3.0	2	17/21	17 dark, 1 HH, 1 MB, WOT	0%	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, WOT=Worst 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 Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 28 entries in the Texas Advanced Chip Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Under 1 in.	Culls/ No.2	General Rating <sup>1</sup> Grading
		Total Yield	1-2 in.	2-3 in.	Over 3 in.			
ATTX03476-2W	407.4	400.2	35.1	271.8	93.2	0.9	6.4	3.5
ATTX03475-2W	398.4	385.7	21.2	135.6	228.8	0.6	12.2	3.7
ATTX03474-1W	388.8	350.5	47.0	209.7	93.8	1.7	36.6	3.6
COTX03270-1W	344.1	331.6	86.8	216.9	27.9	3.2	9.3	2.6
ATTX03474-3W	338.3	321.8	47.6	178.0	96.1	2.0	14.5	3.3
Atlantic	334.8	320.3	18.3	152.5	149.6	0.0	14.5	3.5
COTX02377-1W	334.8	310.7	55.5	205.6	49.7	2.3	21.8	2.4
Prince Hairy	316.2	249.2	112.7	123.1	13.4	6.7	60.4	2.5
ATTX03475-6W	308.1	297.1	52.6	186.7	57.8	3.8	7.3	3.5
TX1673-1W	297.7	286.3	55.2	178.9	52.3	4.2	7.3	3.0
King Harry	293.0	282.3	42.4	163.8	76.1	2.3	8.4	3.1
TX03196-1W	289.2	278.8	89.7	169.9	19.2	4.4	6.1	2.8
NDTX059997-7W	275.0	266.0	34.8	154.5	76.7	1.2	7.8	3.3
AOTX95295-1W	275.0	262.5	36.3	161.5	64.8	1.7	10.7	2.8
ATX85404-8W	270.3	252.8	32.1	182.0	38.7	4.7	12.8	3.5
ATTX03474-2W	248.0	230.9	23.5	122.3	85.1	0.3	16.8	3.2
NDTX059979-1W	247.1	217.5	85.7	117.9	13.9	18.9	10.7	2.7
AOTX95309-3W	219.0	212.9	31.1	153.0	28.7	1.5	4.6	2.7
COTX03303-1W	214.9	209.4	31.7	118.8	59.0	3.5	2.0	3.2
TX05249-11W	205.6	184.4	52.6	106.0	25.8	2.3	18.9	2.9
ATX06206-6W/Y	201.0	160.9	69.1	86.5	5.2	16.0	24.1	2.4
ATTX98466-5R/W-R	194.0	168.7	78.7	88.6	1.5	18.3	7.0	3.0
NDTX059632-1W	193.7	177.1	52.6	122.8	1.7	6.1	10.5	2.5
ATTX03446-4W	141.4	138.2	17.4	94.7	26.1	1.2	2.0	3.6
ATX06206-9W	129.8	126.3	44.4	77.0	4.9	1.5	2.0	2.8
ATX06173-2W	125.5	125.5	32.5	18.6	74.3	0.0	0.0	3.0
TX05249-3W	80.2	77.8	17.4	48.8	11.6	1.8	0.6	2.6
NDTX059828-2W	71.1	65.6	30.5	33.4	1.7	3.2	2.3	2.0
Average	274.6	256.9	50.2	151.1	55.6	4.4	13.4	3.0
L.S.D. (.05)	40.9	41.3	23.5	43.5	31.2	6.5	12.9	0.5

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

Dalhart Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 28 entries in the Texas Advanced Chip Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight		Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	1-2 in.	2-3 in.	Over 3 in.	Under 1 in.	Culls/ No. 2				
ATTX03476-2W	98.3	8.6	66.8	22.9	0.2	1.5	1.060	13.3	Oblong	White
ATTX03475-2W	96.7	5.4	34.8	56.6	0.2	3.1	1.068	14.7	Oblong	White
ATTX03474-1W	90.1	12.2	54.0	24.0	0.4	9.4	1.060	13.2	Round	White
COTX03270-1W	96.4	25.5	63.3	7.6	0.9	2.7	1.064	13.9	Round	White
ATTX03474-3W	95.1	14.1	52.9	28.1	0.6	4.3	1.059	13.1	Round	White
Atlantic	96.0	5.8	46.9	43.3	0.0	4.0	1.072	15.4	Round	Buff
COTX02377-1W	92.3	16.5	60.4	15.4	0.7	7.0	1.056	12.5	Round	White
Prince Hairy	79.1	34.9	39.3	4.9	1.9	19.0	1.054	12.1	Round	White
ATTX03475-6W	96.3	17.2	60.2	18.9	1.3	2.4	1.051	11.7	Round	White
TX1673-1W	96.2	18.6	59.6	18.0	1.4	2.3	1.052	11.9	Oblong	White
King Harry	96.4	14.5	55.9	26.0	0.8	2.8	1.065	14.1	Round	White
TX03196-1W	96.4	32.9	57.8	5.8	1.4	2.2	1.058	12.9	Round	White
NDTX059997-7W	97.0	12.7	56.3	27.9	0.4	2.6	1.056	12.5	Round	White
AOTX95295-1W	95.5	13.2	58.7	23.6	0.6	3.9	1.063	13.7	Round	White
ATX85404-8W	93.8	12.1	67.8	13.9	1.6	4.6	1.059	13.0	Oblong	White
ATTX03474-2W	93.3	9.7	49.1	34.6	0.1	6.5	1.057	12.6	Round	White
NDTX059979-1W	87.8	36.6	46.5	4.7	8.3	3.9	1.063	13.7	Round	White
AOTX95309-3W	97.2	15.4	68.5	13.4	0.8	2.0	1.061	13.4	Round	White
COTX03303-1W	97.4	15.1	55.9	26.5	1.6	1.0	1.060	13.1	Oblong	White
TX05249-11W	89.1	22.9	53.9	12.3	1.0	9.9	1.066	14.3	Round	White
ATX06206-6W/Y	79.9	35.1	42.1	2.7	7.8	12.4	1.054	12.1	Round	White
ATTX98466-5R/W-R	87.6	39.8	47.0	0.8	9.0	3.4	1.058	12.9	Oblong	Red
NDTX059632-1W	91.6	28.5	62.5	0.6	3.1	5.2	1.059	13.0	Round	White
ATTX03446-4W	98.2	12.7	67.3	18.2	0.7	1.2	1.062	13.6	Round	White
ATX06206-9W	97.2	34.4	58.9	4.0	1.2	1.6	1.049	11.3	Round	White
ATX06173-2W	100.0	25.9	14.8	59.3	0.0	0.0	1.049	11.3	Oblong	White
TX05249-3W	97.2	23.1	61.3	12.8	2.2	0.6	1.049	11.3	Oblong	White
NDTX059828-2W	91.8	41.6	46.9	3.3	4.0	4.1	1.049	11.3	Round	White
Average	93.4	19.8	55.5	18.2	1.8	4.8	1.059	13.1		
L.S.D. (.05)	5.3	9.9	12.4	9.2	3.1	4.8	0.004	0.8		

Dalhart  
Table 4c. Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 28 entries in the Texas Advanced Chip Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	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>	
ATTX03476-2W	5.4	5.1	0.0	93	100	1.5	4.6	4.4	4.3	3
ATTX03475-2W	3.8	6.9	0.0	74	100	2.0	3.8	3.4	4.2	23
ATTX03474-1W	5.0	4.8	0.0	100	100	2.5	3.3	3.2	3.3	29
COTX03270-1W	7.0	3.2	0.0	80	100	2.3	3.4	2.4	3.6	46
ATTX03474-3W	4.9	4.6	0.0	81	100	1.5	4.8	4.3	4.5	9
Atlantic	3.5	6.7	0.0	69	94	2.0	4.0	3.4	4.2	31
COTX02377-1W	5.2	4.2	0.0	89	100	2.0	4.0	3.6	3.8	10
Prince Hairy	6.5	3.0	0.0	74	94	1.5	4.7	4.4	4.8	4
ATTX03475-6W	5.1	4.5	0.0	71	93	2.5	4.3	4.4	4.6	4
TX1673-1W	5.1	4.1	0.0	81	98	2.0	3.8	3.7	3.5	10
King Harry	4.6	4.2	0.0	45	100	2.0	3.8	3.3	4.1	18
TX03196-1W	6.2	3.1	0.0	76	100	3.0	2.8	2.1	3.2	65
NDTX059997-7W	3.4	5.5	0.0	40	100	2.5	2.8	3.0	3.0	30
AOTX95295-1W	3.9	4.6	0.0	68	100	1.5	4.3	3.4	4.4	15
ATX85404-8W	4.3	4.4	0.0	53	94	3.1	4.6	3.6	3.3	16
ATTX03474-2W	3.3	5.5	0.0	53	88	2.0	3.9	3.5	3.7	24
NDTX059979-1W	6.5	2.5	0.0	93	100	1.5	3.6	3.8	3.9	10
AOTX95309-3W	3.6	4.2	0.0	53	94	1.5	4.3	3.2	4.5	21
COTX03303-1W	4.0	4.4	0.0	41	83	2.0	4.0	4.0	4.4	8
TX05249-11W	3.8	3.9	0.0	60	88	1.8	3.6	2.6	3.3	33
ATX06206-6W/Y	6.0	2.1	0.0	89	100	1.5	4.2	4.5	4.1	6
ATTX98466-5R/W-R	5.5	2.6	0.0	98	100	2.8	2.9	1.5	3.5	93
NDTX059632-1W	4.6	2.7	0.0	41	100	1.5	3.9	3.8	3.9	13
ATTX03446-4W	3.6	3.9	0.0	23	75	2.3	4.0	3.4	3.7	23
ATX06206-9W	5.5	2.7	0.0	43	63	1.9	2.3	2.7	2.5	40
ATX06173-2W	3.4	5.1	0.0	40	50	1.5	1.5	2.5	2.5	30
TX05249-3W	3.0	3.2	0.0	38	63	1.5	3.1	2.3	2.5	43
NDTX059828-2W	2.9	2.7	0.0	18	63	1.5	3.1	2.3	3.6	73
Average	4.8	4.1	0.0	67	94	2.0	3.8	3.4	3.8	23
L.S.D. (.05)	1.2	0.6		20	16	0.6	0.5	0.7	0.8	18

<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 28 entries in the Texas Advanced Chip Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	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
ATTX03476-2W	1.0	3.5	1.1	3.4	1.1	5.0	5.0	5.0	5.0	5.0	8	0	3	0
ATTX03475-2W	1.0	3.7	1.5	4.5	1.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX03474-1W	1.0	2.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX03270-1W	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	3	0
ATTX03474-3W	1.0	2.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Atlantic	1.0	2.0	2.5	4.5	2.5	5.0	5.0	5.0	5.0	5.0	23	0	0	8
COTX02377-1W	1.0	2.4	1.5	3.1	1.5	4.0	5.0	5.0	5.0	5.0	5	0	3	0
Prince Hairy	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	18
ATTX03475-6W	1.0	1.5	1.5	4.5	1.5	5.0	5.0	5.0	5.0	5.0	0	0	3	0
TX1673-1W	1.0	3.3	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
King Harry	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX03196-1W	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059997-7W	1.0	2.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX95295-1W	1.0	1.8	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX85404-8W	1.0	3.4	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX03474-2W	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059979-1W	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	5
AOTX95309-3W	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX03303-1W	1.0	3.2	2.0	4.5	2.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
TX05249-11W	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX06206-6W/Y	1.0	1.6	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98466-5R/W-R	1.0	3.5	1.0	4.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059632-1W	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	3
ATTX03446-4W	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX06206-9W	1.0	2.3	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX06173-2W	1.0	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX05249-3W	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
NDTX059828-2W	1.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	1.0	2.1	1.1	4.4	1.2	5.0	5.0	5.0	5.0	5.0	2	0	1	1
L.S.D. (.05)	ns	0.3	0.1	0.1	0.1	ns	ns	ns	ns	ns	8	ns	ns	7

<sup>1</sup> 1=light to 5=dark  
<sup>2</sup> 1=round to 5=long  
<sup>3</sup> 1=none to 5=heavy  
<sup>4</sup> 1=deep to 5=shallow  
<sup>5</sup> 1=light to 5=dark

<sup>6</sup> 1 to 5=none  
<sup>7</sup> 1 to 5=none  
<sup>8</sup> 1 to 5=none  
<sup>9</sup> 1 to 5=none  
<sup>10</sup> 1 to 5=none  
<sup>11</sup> Stem end vascular discoloration severely evaluated

Dalhart  
Table 4e. Notes and general rating for all reps of 28 entries in the Texas Advanced Chip Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
ATTX03476-2W	oblong, a little rough, high yield, deep eyes, rough	3.7, 3.7, 3.3, 3.4
ATTX03475-2W	sticky stolon, nice, oversized, oblong to long. Move to Russet trial??	3.8, 3.6, 3.6, 3.6
ATTX03474-1W	oversized, rough, bad rep	3.8, 3.5, 3.7, 3.5
COTX03270-1W	small	2.8, 2.7, 2.3, 2.5
ATTX03474-3W	some rough+	3.4, 3.6, 3.1, 3
Atlantic	oversized, buff	4, 3.6, 3.5, 3
COTX02377-1W	rough, oversized, deep eyes, drop++	3, 2, 2.5, 2
Prince Hairy	heavy set, rough, poor internals+, 30% insect damage	3.5, 3.5, 1.5, 1.5
ATTX03475-6W		3.5, 3.2, 3.6, 3.6
TX1673-1W	pointed	3.2, 3, 3, 2.8
King Harry		3, 3.2, 3, 3.2
TX03196-1W	uniform, small	2.5, 2.5, 3.3, 2.8
NDTX059997-7W		3.3, 3.3, 3.3, 3.3
AOTX95295-1W	rough, drop?	2.8, 2.8, 2.5, 3
ATX85404-8W	rough, drop?,	3.7, 4, 3.4, 3
ATTX03474-2W	oversized, nice flesh, bad rep	3.3, 3.3, 3.6, 2.5
NDTX059979-1W	small	2.5, 2.8, 3, 2.5
AOTX95309-3W		3.6, 2.5, 2.7, 2
COTX03303-1W	oblong to long, nice flesh	3.5, 3.1, 3.3, 3
TX05249-11W		2.8, 2.5, 3.2, 3.2
ATX06206-6W/Y	small, heat sprouts, yellow flesh, drop	2.3, 2.3, 2.4, 2.4
ATTX98466-5R/W-R	small, purple streaks in flesh, greenhead	3, 3, 3, 3
NDTX059632-1W	pointed, drop	3, 2, 2.8, 2
ATTX03446-4W	light set, keep	3.5, 3.6, 3.5, 3.6
ATX06206-9W	low yield	2.8, 2.8, 2.8, 2.8
ATX06173-2W		3, 3, 3, 3
TX05249-3W		2.5, 2.5, 2.3, 3.2
NDTX059828-2W	heat sprouts	2, 2, 2, 2

Dalhart  
Table 4f.

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 28 entries in the Texas Advanced Chip Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	General Rating <sup>1</sup>	Tuber Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
ATTX03476-2W	1.060	13.3	3.5	1	33/7	BOT-	0%	0%
ATTX03475-2W	1.068	14.7	3.7					0%
ATTX03474-1W	1.060	13.2	3.6	1	39/0	BOT+	0%	0%
COTX03270-1W	1.064	13.9	2.6					0%
ATTX03474-3W	1.059	13.1	3.3	1	35/4	1 HH, 1 GH, BOT-	0%	0%
Atlantic	1.072	15.4	3.5	1	14/6	1 BC, BOT-	0%	0%
COTX02377-1W	1.056	12.5	2.4					0%
Prince Hairy	1.054	12.1	2.5	2	16/33	7 dark, 6 TM	8%	8%
ATTX03475-6W	1.051	11.7	3.5	1	28/12	2 TM	0%	0%
TX1673-1W	1.052	11.9	3.0					0%
King Harry	1.065	14.1	3.1	2	19/18	3 dark, 1 GH	0%	0%
TX03196-1W	1.058	12.9	2.8	1	55/17	2 TM	0%	0%
NDTX059997-7W	1.056	12.5	3.3					0%
AOTX95295-1W	1.063	13.7	2.8					0%
ATX85404-8W	1.059	13.0	3.5	1	53/12	1 dark, 1 TM/GH	0%	0%
ATTX03474-2W	1.057	12.6	3.2	1	35/4	2 TM/GH, BOT-	0%	0%
NDTX059979-1W	1.063	13.7	2.7					0%
AOTX95309-3W	1.061	13.4	2.7					0%
COTX03303-1W	1.060	13.1	3.2	1	34/5	BOT-	0%	0%
TX05249-11W	1.066	14.3	2.9	1	28/8	1 BC, 1 TM	3%	0%
ATX06206-6W/Y	1.054	12.1	2.4	3	10/10	2 MB, DROP	0%	0%
ATTX98466-5R/W-R	1.058	12.9	3.0					0%
NDTX059632-1W	1.059	13.0	2.5					0%
ATTX03446-4W	1.062	13.6	3.6	1	19/1	1 GH, BOT	0%	0%
ATX06206-9W	1.049	11.3	2.8	3	14/16	1 dark, DROP	0%	0%
ATX06173-2W	1.049	11.3	3.0	1	7/1	1 GH, BOT-	0%	0%
TX05249-3W	1.049	11.3	2.6	1	8/7		0%	0%
NDTX059828-2W	1.049	11.3	2.0	1	20/11	1 dark, 3 GH	0%	0%

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

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

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

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

Dalhart  
Table 5

Inventory weight of 8 entries to be advanced from the 2009  
Chip Selection Trial grown near Dalhart, Texas-2010.

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Variety or Selection	Trial	Inventory Weight
NDTX071084C-2W	09SEL	2
NDTX071109C-1W	09SEL	5
NDTX071112-5W	09SEL	8
NDTX071217CB-1W	09SEL	3
NDTX8303-1W	09SEL	1
NDTX8305-1W	09SEL	5
NDTX8305-2W	09SEL	0.9
NDTX8305-3W	09SEL	2

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Dalhart 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 Advanced  
 Table 6a. Russet Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	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				
Russet Norkotah112	471.9	391.7	31.4	160.3	200.1	3.5	31.1	45.6	3.5
Russet Norkotah296	461.2	382.2	47.3	185.9	149.0	8.1	22.4	48.5	3.4
Russet Norkotah223	443.2	399.0	67.7	185.9	145.5	6.7	24.4	13.1	3.4
AOTX98152-3Ru	432.4	323.8	34.0	159.4	130.4	50.2	25.8	32.5	3.4
COTX05095-2Ru/Y	425.4	346.2	94.4	212.3	39.5	0.0	68.2	11.0	3.2
Russet Norkotah278	416.1	343.0	70.9	108.3	163.8	20.0	35.1	18.0	3.7
AOTX95265-3Ru	401.6	330.8	35.7	130.1	164.9	29.6	19.5	21.8	3.5
COTX06221-1Ru	400.5	252.6	19.7	47.9	185.0	67.7	8.7	71.4	3.1
AOTX98096-1Ru	389.1	334.8	49.1	164.7	121.1	0.0	20.9	33.4	3.2
TXA549-1RU	388.0	309.9	42.7	149.6	117.6	25.8	23.5	28.7	3.5
AOTX95265-1Ru	377.2	292.1	52.3	130.4	109.5	31.4	27.6	26.1	3.6
AOTX98202-1Ru	367.1	336.3	38.0	151.6	146.7	0.0	19.7	11.0	3.6
ATX03475-7Ru	356.6	303.2	77.8	192.8	32.5	0.0	45.6	7.8	3.6
ATX84378-6Ru	346.2	261.4	38.3	121.7	101.3	34.6	17.7	32.5	3.7
AOTX96084-1Ru	340.6	280.5	32.5	146.9	101.1	33.1	9.6	17.4	3.5
ATX99013-1Ru	338.3	280.2	31.7	128.9	119.6	18.0	17.4	22.7	3.4
COTX05095-1Ru	327.0	276.5	32.2	135.9	108.3	7.6	7.8	35.1	3.2
ATX03475-9Ru	322.6	276.5	36.0	161.5	79.0	0.0	45.3	0.9	3.5
Russet Norkotah	321.2	247.7	50.8	117.9	79.0	3.2	22.7	47.6	3.3
ATX97147-4Ru	318.3	247.1	17.4	113.5	116.2	18.0	5.8	47.3	3.2
AOTX06048-1Ru	314.5	257.0	40.4	150.1	66.5	0.0	22.1	35.4	2.9
ATX03475-10Ru	311.6	264.6	82.5	125.2	56.9	0.0	45.3	1.7	3.3
AOTX06016-1Ru	298.8	274.4	44.4	138.2	91.8	0.0	15.4	9.0	3.1
AOTX02060-1Ru	295.9	257.0	31.4	112.7	113.0	7.6	13.1	18.3	3.3
AOTX96216-2Ru	292.4	228.8	10.5	71.7	146.7	21.8	7.3	34.6	3.6
AOTX06026-1Ru	285.8	237.8	44.4	118.8	74.6	7.0	27.6	13.4	3.1
Stampede Russet	280.2	228.3	53.7	109.2	65.3	10.7	35.7	5.5	3.3
AOTX96208-1Ru	274.1	234.1	25.8	116.7	91.5	6.7	23.8	9.6	3.2
ATX9202-3RU	273.6	216.6	54.3	129.2	33.1	4.1	29.0	23.8	3.0
ATX99194-3Ru	267.7	210.5	45.6	100.2	64.8	4.6	31.7	20.9	3.0

Dalhart 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 Advanced Russet Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	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				
ATX91137-1RU	267.5	232.6	46.8	120.8	65.0	0.0	16.3	18.6	3.3
ATX05142-2Ru	262.8	202.7	69.7	102.5	30.5	0.0	32.2	27.9	3.2
ATX9332-12RU	256.7	223.3	41.8	139.7	41.8	0.0	18.6	14.8	3.2
AOTX96265-2Ru	251.5	231.2	28.7	110.6	91.8	0.0	9.6	10.7	3.5
AOTX06116-1Ru	220.7	141.4	17.7	60.1	63.6	58.7	7.8	12.8	3.3
TXNS551	195.7	162.9	40.7	83.3	38.9	0.0	21.2	11.6	3.2
COTX06052-2Ru	191.7	154.2	27.6	75.2	51.4	0.0	17.4	20.0	3.0
TXNS410	189.9	153.3	28.5	85.7	39.2	3.5	24.7	8.4	3.5
AOTX95265-4Ru	96.1	63.0	29.0	32.2	1.7	0.0	16.6	16.6	2.5
AOTX06077-1Ru	Drop								
Average	366.3	299.9	44.4	140.1	115.4	15.5	24.1	26.9	3.4
L.S.D. (.05)	54.1	63.8	23.4	47.7	52.8	27.2	17.0	30.3	0.3

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

Dalhart  
Table 6b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 40 entries in the Texas Advanced Russet Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	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				
Russet Norkotah112	83.3	6.7	34.2	42.4	0.7	6.7	9.3	1.057	12.7	Long	Russet
Russet Norkotah296	83.1	10.3	40.4	32.4	1.7	4.9	10.4	1.056	12.6	Long	Russet
Russet Norkotah223	90.0	15.2	42.1	32.6	1.5	5.5	3.0	1.053	11.9	Long	Russet
AOTX98152-3Ru	75.9	8.1	36.9	30.8	10.7	6.0	7.4	1.063	13.7	Long	Russet
COTX05095-2Ru/Y	81.4	22.3	49.9	9.2	0.0	16.0	2.6	1.055	12.3	Oblong	Russet
Russet Norkotah278	82.9	16.8	26.8	39.3	4.5	8.2	4.4	1.058	12.8	Long	Russet
AOTX95265-3Ru	82.7	9.1	32.8	40.8	7.4	4.7	5.3	1.056	12.6	Long	Russet
COTX06221-1Ru	63.3	5.0	11.7	46.5	16.6	2.2	18.0	1.049	11.2	Long	Russet
AOTX98096-1Ru	86.7	13.7	42.5	30.5	0.0	5.5	7.8	1.056	12.5	Oblong	Russet
TXA549-1RU	80.1	10.9	38.7	30.4	6.4	6.1	7.5	1.066	14.3	Oblong	Russet
AOTX95265-1Ru	77.9	14.2	34.7	29.0	7.9	7.6	6.6	1.058	12.9	Long	Russet
AOTX98202-1Ru	91.3	11.0	45.4	34.8	0.0	5.7	3.1	1.060	13.3	Long	Russet
ATTX03475-7Ru	85.4	21.9	54.4	9.1	0.0	12.4	2.2	1.066	14.2	Oblong	Russet
ATX84378-6Ru	77.3	11.0	34.6	31.7	9.9	4.9	7.9	1.056	12.6	Oblong	Russet
AOTX96084-1Ru	83.9	10.0	42.7	31.1	8.9	2.8	4.4	1.057	12.7	Long	Russet
ATX99013-1Ru	83.6	9.4	40.4	33.8	4.3	5.2	6.9	1.056	12.4	Long	Russet
COTX05095-1Ru	84.8	10.2	41.6	32.9	2.2	2.3	10.7	1.060	13.2	Long	Russet
ATTX03475-9Ru	85.7	11.2	50.0	24.5	0.0	14.0	0.3	1.058	12.9	Oblong	Russet
Russet Norkotah	75.0	14.9	35.9	24.1	1.3	6.7	17.0	1.054	12.2	Long	Russet
ATX97147-4Ru	80.4	6.2	37.8	36.4	4.8	2.2	12.6	1.063	13.8	Long	Russet
AOTX06048-1Ru	82.0	12.6	48.1	21.3	0.0	7.0	11.0	1.059	13.1	Long	Russet
ATTX03475-10Ru	83.3	26.6	39.6	17.1	0.0	16.1	0.6	1.063	13.8	Oblong	Russet
AOTX06016-1Ru	91.8	14.9	45.0	31.9	0.0	5.0	3.2	1.059	13.1	Oblong	Russet
AOTX02060-1Ru	84.9	11.2	37.6	36.1	2.7	5.2	7.2	1.061	13.4	Long	Russet
AOTX96216-2Ru	78.0	3.6	23.9	50.5	7.9	2.4	11.8	1.058	12.8	Oblong	Russet
AOTX06026-1Ru	83.3	15.9	41.3	26.1	2.2	9.9	4.6	1.076	16.0	Oblong	Russet
Stampede Russet	80.6	19.1	37.9	23.7	4.6	12.9	1.8	1.048	11.2	Oblong	Russet
AOTX96208-1Ru	84.5	9.3	43.0	32.2	2.2	9.2	4.1	1.055	12.4	Oblong	Russet
ATX9202-3RU	79.5	20.2	49.1	10.2	1.2	11.0	8.4	1.062	13.6	Long	Russet
ATX99194-3Ru	79.2	17.3	36.7	25.2	1.6	11.4	7.8	1.058	12.8	Oblong	Russet

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 40 entries in the Texas Advanced Russet Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	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	86.5	17.3	45.9	23.3	0.0	6.1	7.4	1.057	12.7	Long	Russet
ATX05142-2Ru	78.2	27.6	40.0	10.7	0.0	12.0	9.8	1.077	16.2	Oblong	Russet
ATX9332-12RU	86.9	17.2	55.3	14.3	0.0	7.5	5.7	1.076	16.1	Oblong	Russet
AOTX96265-2Ru	91.3	11.4	43.6	36.3	0.0	4.0	4.7	1.063	13.8	Oblong	Russet
AOTX06116-1Ru	61.9	9.0	25.9	27.1	27.3	3.2	7.6	1.073	15.5	Long	Russet
TXNS551	82.1	23.6	41.5	17.1	0.0	11.9	5.9	1.052	11.9	Oblong	Russet
COTX06052-2Ru	79.0	13.3	40.9	24.7	0.0	9.8	11.2	1.064	14.0	Oblong	Russet
TXNS410	80.2	15.2	45.5	19.5	2.4	12.7	4.7	1.053	12.0	Oblong	Russet
AOTX95265-4Ru	66.2	27.6	36.1	2.5	0.0	17.6	16.2	1.054	12.1	Oblong	Russet
AOTX06077-1Ru											
Average	82.2	12.3	38.7	31.2	4.0	6.6	7.2	1.058	12.9		
L.S.D. (.05)	14.9	8.8	14.6	15.0	8.3	6.1	ns	0.004	0.8		



Dalhart  
Table 6c.

Average number of tubers per plant, average tuber weight, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 40 entries in the Texas Advanced Russet Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
Russet Norkotah112	4.6	6.5	100	100	1.5	4.8	3.8	4.6	33
Russet Norkotah296	4.8	6.1	100	100	1.5	4.7	3.9	4.6	20
Russet Norkotah223	5.4	5.6	89	100	1.5	4.9	3.7	4.7	28
AOTX98152-3Ru	4.0	7.7	95	95	1.5	4.7	3.9	4.7	23
COTX05095-2Ru/Y	7.0	4.2	95	98	2.0	3.3	2.8	3.6	55
Russet Norkotah278	4.8	6.2	90	95	1.5	4.6	3.8	4.4	25
AOTX95265-3Ru	3.9	7.0	100	100	2.5	3.3	2.3	3.6	75
COTX06221-1Ru	2.8	9.7	98	98	1.5	5.0	4.8	5.0	5
AOTX98096-1Ru	4.3	6.5	90	90	2.0	4.0	2.4	4.0	55
TXA549-1Ru	3.7	7.3	86	94	1.5	4.8	4.0	4.6	18
AOTX95265-1Ru	3.7	6.8	100	100	1.8	3.7	3.3	3.9	40
AOTX98202-1Ru	3.7	6.8	68	95	2.0	3.3	3.4	3.7	40
ATX03475-7Ru	5.1	4.7	100	100	1.5	4.1	4.1	4.1	5
ATX84378-6Ru	3.7	7.9	74	83	1.5	4.0	3.3	4.1	45
AOTX96084-1Ru	3.3	7.0	89	100	1.5	4.0	2.2	4.0	65
ATX99013-1Ru	3.3	6.9	98	98	1.5	4.1	3.7	4.3	33
COTX05095-1Ru	3.6	6.4	89	89	1.5	3.8	2.9	4.0	48
ATX03475-9Ru	3.6	6.2	48	100	1.5	4.3	3.5	4.4	25
Russet Norkotah	3.7	5.8	90	95	1.8	3.7	2.9	3.8	50
ATX97147-4Ru	3.0	7.1	79	93	1.5	4.7	4.2	4.6	18
AOTX06048-1Ru	3.5	5.9	88	95	1.5	4.7	3.9	4.7	33
ATX03475-10Ru	5.9	5.0	59	78	1.8	4.3	2.7	4.1	65
AOTX06016-1Ru	4.6	6.8	56	74	1.5	3.9	1.9	4.0	63
AOTX02060-1Ru	3.6	6.7	70	83	2.0	3.4	2.9	3.8	50
AOTX96216-2Ru	2.4	10.1	66	85	1.5	4.6	3.8	4.6	30
AOTX06026-1Ru	3.3	6.6	76	90	1.5	4.5	3.8	4.5	10
Stampede Russet	3.6	5.7	79	98	1.5	4.5	2.0	4.4	85
AOTX96208-1Ru	3.5	6.2	85	89	1.8	4.0	2.5	4.0	58
ATX9202-3Ru	4.3	5.2	75	83	1.8	3.7	3.3	4.0	45
ATX99194-3Ru	4.2	6.0	69	76	1.8	3.4	2.0	3.7	83

Dalhart  
Table 6c. Cont. Average number of tubers per plant, average tuber weight, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 40 entries in the Texas Advanced Russet Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
ATX91137-1RU	4.3	5.7	68	76	1.5	4.1	2.0	4.1	68
ATX05142-2Ru	3.8	4.4	95	98	2.0	4.0	3.0	4.3	40
ATX9332-12RU	3.7	5.5	71	90	1.5	4.4	4.2	4.4	10
AOTX96265-2Ru	2.6	7.5	86	86	1.8	4.3	4.6	4.3	10
AOTX06116-1Ru	2.5	9.7	39	83	1.5	3.8	3.9	4.2	20
TXNS551	2.8	5.0	88	90	2.3	3.1	2.5	3.6	80
COTX06052-2Ru	3.1	5.9	51	76	1.5	4.7	4.5	4.7	13
TXNS410	2.4	5.3	90	95	2.0	3.7	2.5	3.8	80
AOTX95265-4Ru	1.7	3.7	89	95	2.5	3.6	2.2	3.9	80
AOTX06077-1Ru									
Average	4.1	6.7	85	93	1.7	4.2	3.3	4.2	38
L.S.D. (.05)	1.4	1.2	22	ns	0.3	0.5	0.8	0.4	20

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

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

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

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

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 Advanced Russet Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	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
Russet Norkotah112	1.0	4.7	4.0	3.7	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah296	1.0	4.5	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Russet Norkotah223	1.0	4.7	4.0	3.6	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX98152-3Ru	1.0	4.0	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
COTX05095-2Ru/Y	3.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah278	1.0	4.5	4.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
AOTX95265-3Ru	1.0	4.3	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
COTX06221-1Ru	1.0	4.5	4.0	2.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
AOTX98096-1Ru	1.0	3.7	4.0	3.7	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	13
TXA549-1RU	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	3
AOTX95265-1Ru	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX98202-1Ru	1.0	4.0	4.0	4.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX03475-7Ru	1.0	3.8	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX84378-6Ru	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX96084-1Ru	1.0	4.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX99013-1Ru	1.0	4.0	4.0	3.7	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX05095-1Ru	1.0	4.5	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	5
ATTX03475-9Ru	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah	1.0	4.3	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX97147-4Ru	1.0	4.4	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
AOTX06048-1Ru	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX03475-10Ru	1.0	3.7	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX06016-1Ru	1.0	3.8	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
AOTX02060-1Ru	1.0	4.5	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX96216-2Ru	1.0	3.8	4.0	4.5	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
AOTX06026-1Ru	1.0	3.5	3.9	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	8
Stampede Russet	1.0	3.7	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	3
AOTX96208-1Ru	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
ATX9202-3RU	1.0	3.7	4.0	2.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX99194-3Ru	1.0	5.0	3.5	4.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0

Dalhart 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 Advanced Russet Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	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	1.0	3.8	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05142-2Ru	1.0	3.7	4.0	4.0	4.0	5.0	5.0	5.0	5.0	3.0	0	0	0	0
ATX9332-12RU	1.0	3.6	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX96265-2Ru	1.0	4.1	4.0	4.5	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
AOTX06116-1Ru	1.0	3.7	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	15	0	0	0
TXNS551	1.0	3.7	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX06052-2Ru	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
TXNS410	1.0	3.8	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX95265-4Ru	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX06077-1Ru														
Average	1.1	4.2	4.0	4.1	4.0	5.0	5.0	5.0	5.0	4.9	1	0	0	1
L.S.D. (.05)	0.1	ns	0.1	ns	0.1	ns	ns	ns	ns	0.1	ns	ns	ns	5

<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 Advanced Russet Selection Trial grown near  
 Table 6e. Dalhart, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
Russet Norkotah112	high yield, thin, skinny	3.5, 3.5, 3.5, 3.4
Russet Norkotah296	pointed, skinny	3.3, 3.1, 3.3, 3.7
Russet Norkotah223	skinny	3.2, 3.5, 3.3, 3.5
AOTX98152-3Ru	large tubers, rough	3.8, 3.4, 3.2, 3
COTX05095-2Ru/Y	keep for yellow flesh, heavy set, yellow flesh, pointed	3.2, 3.2, 3.2, 3.2
Russet Norkotah278	skinny, nice	3.7, 3.8, 3.5, 3.7
AOTX95265-3Ru		3.4, 3.5, 3.6, 3.5
COTX06221-1Ru	oversized, drop++, , deep eyes, yield parent, rough, high yield, drop	3, 3, 3.2, 3
AOTX98096-1Ru	pointed, shape ok, drop?, poor internals	3, 3.3, 3.5, 3
TXA549-1Ru	blocky	3.5, 3.6, 3.3, 3.5
AOTX95265-1Ru	nice, pointed, bad rep, drop?	3.7, 3.6, 3.2, 3.7
AOTX98202-1Ru	BOT, high yield, slight feathering, nice, bad rep?	4, 3.7, 3.8, 3
ATTX03475-7Ru	high yield, BOT, bad rep, drop?	3.9, 3.7, 3.4, 3.2
ATX84378-6Ru	BOT, growth cracks, blocky, light set	3.8, 3.8, 3.8, 3.5
AOTX96084-1Ru	keep	3.4, 3.5, 3.3, 3.6
ATX99013-1Ru		3.7, 3.3, 3.3, 3.2
COTX05095-1Ru	white flesh, pointed, drop++	3.2, 3.2, 3.2, 3.2
ATTX03475-9Ru	blocky, bad rep, 5 tubers in Rep 1	3.5, 3.5, 3.5, 3.5
Russet Norkotah	nice rep, skinny	3.7, 3.2, 3.4, 2.8
ATX97147-4Ru	poor shape	3.2, 3.2, 3.2, 3.2
AOTX06048-1Ru	drop+	2.8, 2.8, 3, 3
ATTX03475-10Ru	keep, , light russet	3.5, 3, 3.3, 3.3
AOTX06016-1Ru	low yield, drop++	3.2, 3, 3.3, 2.8
AOTX02060-1Ru	skinny, drop, nice	3.4, 3.5, 2.8, 3.4
AOTX96216-2Ru	BOT, light set, large tubers	3.9, 3.4, 3.6, 3.5
AOTX06026-1Ru	blocky, poor internals, drop?	3.5, 3, 3, 3
Stampede Russet	tuber moth, light set, nice flesh	3.2, 3.5, 3.3, 3.3
AOTX96208-1Ru	Rhizoctonia, drop+	3, 3.4, 3.4, 3
ATX9202-3Ru	deep eyes, drop++	3.5, 3, 2.8, 2.8
ATX99194-3Ru	mixed, drop++++	2.8, 3.3, 3, 3

Dalhart  
Table 6e. Cont. Notes and general rating for all reps of 40 entries in the Texas Advanced Russet Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
ATX91137-1RU		3.2, 3.6, 3, 3.2
ATX05142-2Ru	feathering, pointed, very white flesh, drop++, , nice shape, low yield	3.2, 3.2, 3, 3.2
ATX9332-12RU	small	3, 3.2, 3.2, 3.2
AOTX96265-2Ru	nice, nice shape, nice	3.7, 3.2, 3.7, 3.2
AOTX06116-1Ru	nice rep, large tubers, blocky, drop ( bad rep?), light set, keep	3.8, 2.8, 3.7, 3
TXNS551	nice but small	3.3, 3.3, 3.3, 3
COTX06052-2Ru	blocky, drop++++	3, 2.8, 2.8, 3.2
TXNS410		3.6, 3.6, 3.2, 3.4
AOTX95265-4Ru	bad rep, drop++	2.5, 2.5, 3, 2
AOTX06077-1Ru	discarded	

Dalhart  
Table 6f.

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 40 entries in the Texas Advanced Russet Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
Russet Norkotah112	1.057	12.7	3.5					0%
Russet Norkotah296	1.056	12.6	3.4					0%
Russet Norkotah223	1.053	11.9	3.4					0%
AOTX98152-3Ru	1.063	13.7	3.4					0%
COTX05095-2Ru/Y	1.055	12.3	3.2	3+	14/31	8 sugar	0%	0%
Russet Norkotah278	1.058	12.8	3.7					0%
AOTX95265-3Ru	1.056	12.6	3.5					0%
COTX06221-1Ru	1.049	11.2	3.1	3+	7/33	14 sugar	0%	3%
AOTX98096-1Ru	1.056	12.5	3.2					0%
TXA549-1RU	1.066	14.3	3.5					0%
AOTX95265-1Ru	1.058	12.9	3.6					0%
AOTX98202-1Ru	1.060	13.3	3.6					0%
ATTX03475-7Ru	1.066	14.2	3.6	2	6/24		0%	0%
ATX84378-6Ru	1.056	12.6	3.7					0%
AOTX96084-1Ru	1.057	12.7	3.5	3	19/55	1 dark	3%	0%
ATX99013-1Ru	1.056	12.4	3.4					0%
COTX05095-1Ru	1.060	13.2	3.2	1	27/3	BOT+	0%	0%
ATTX03475-9Ru	1.058	12.9	3.5	2	6/4		0%	0%
Russet Norkotah	1.054	12.2	3.3	3	9/31	2 TM	0%	0%
ATX97147-4Ru	1.063	13.8	3.2	2	5/21	1 dark	4%	0%
AOTX06048-1Ru	1.059	13.1	2.9	3	9/21		0%	0%
ATTX03475-10Ru	1.063	13.8	3.3	3	7/23	7 preZ	3%	0%
AOTX06016-1Ru	1.059	13.1	3.1	2	18/19	4 sugar	11%	0%
AOTX02060-1Ru	1.061	13.4	3.3	3	17/34	1 sugar	0%	0%
AOTX96216-2Ru	1.058	12.8	3.6					0%
AOTX06026-1Ru	1.076	16.0	3.1	2	16/20	1 sugar	0%	0%
Stampede Russet	1.048	11.2	3.3					0%
AOTX96208-1Ru	1.055	12.4	3.2					0%
ATX9202-3RU	1.062	13.6	3.0					0%
ATX99194-3Ru	1.058	12.8	3.0	1	28/32		0%	0%

Dalhart  
Table 6f. Cont.

Specific gravity, percent solids, tuber general rating, chip color rating, good chip bad chip ratio, notes, percentage of Zebra Defect at chipping, and percentage Zebra Defect at grading of 40 entries in the Texas Advanced Russet Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Chip Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
ATX91137-1RU	1.057	12.7	3.3					0%
ATX05142-2Ru	1.077	16.2	3.2					0%
ATX9332-12RU	1.076	16.1	3.2					0%
AOTX96265-2Ru	1.063	13.8	3.5					0%
AOTX06116-1Ru	1.073	15.5	3.3	3	4/19		17%	0%
TXNS551	1.052	11.9	3.2					0%
COTX06052-2Ru	1.064	14.0	3.0	2	3/33		0%	0%
TXNS410	1.053	12.0	3.5					0%
AOTX95265-4Ru	1.054	12.1	2.5					0%
AOTX06077-1Ru								

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 7

Inventory weight, of 14 entries to be Advanced from the 2009 Russet  
Selection Trial grown near Dalhart, Texas-2010.

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Variety or Selection	Trial	Inventory Weight
ATTX06008-2Ru	09SEL	14
ATTX06008-6Ru	09SEL	11
ATTX06026-1Ru	09SEL	11
COTX07009-7Ru	09SEL	8
COTX07009-8Ru	09SEL	11
COTX07018-2Ru	09SEL	9
COTX07024-1Ru	09SEL	5
COTX07024-4Ru	09SEL	8
COTX07179-2Ru	09SEL	12
COTX07199-2Ru	09SEL	16
COTX07206-1Ru	09SEL	11
COTX07299-1Ru	09SEL	8
COTX07354-1Ru	09SEL	7
COTX07380-2Ru	09SEL	8

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Dalhart  
Table 8a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 25 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	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				
BTX2332-1R	321.2	230.0	119.9	110.1	0.0	0.0	90.6	0.6	3.9
ATX03516-2R	309.0	199.2	87.4	90.3	21.5	0.0	102.2	7.6	3.7
COTX06169-3R	292.1	255.6	232.3	23.2	0.0	0.0	34.8	1.7	2.5
COTX05211-7R	284.0	64.5	49.7	14.8	0.0	0.0	215.8	3.8	3.3
AOTX91861-4R	260.5	149.8	97.6	52.3	0.0	0.0	109.5	1.2	3.4
NDTX050070-1R	248.9	87.1	34.0	50.8	2.3	0.0	152.5	9.3	3.7
Dark Red Norland	247.4	190.2	104.0	86.2	0.0	0.0	46.5	10.7	3.0
Red LaSoda	244.8	167.3	98.4	68.8	0.0	0.0	69.1	8.4	3.0
NDTX4784-7R	241.6	149.6	68.5	72.0	9.0	0.0	89.2	2.9	3.3
COTX94218-1R	229.1	59.0	57.2	1.7	0.0	0.0	160.0	10.2	3.4
NDTX5438-11R	214.9	118.2	103.4	14.8	0.0	0.0	95.8	0.9	3.7
COTX94216-1R	202.4	130.7	89.2	41.5	0.0	0.0	59.8	11.9	3.5
COTX05211-4R	199.8	69.7	69.7	0.0	0.0	0.0	122.0	8.1	3.2
ATX98453-11BR	198.6	65.6	22.4	43.3	0.0	0.0	128.9	4.1	3.5
Rio Rojo	182.1	93.5	33.7	55.8	4.1	0.0	83.6	4.9	3.7
NDTX731-1R	171.3	115.9	75.2	40.7	0.0	0.0	52.0	3.5	3.7
AOTX01178-1R	166.0	120.4	41.8	78.6	0.0	0.0	40.4	5.2	3.4
COTX00104-7R	156.8	95.0	43.3	47.6	4.1	0.0	55.5	6.4	2.9
NDTX4271-5R	155.7	116.7	22.7	94.1	0.0	0.0	34.6	4.4	4.1
AOTX93483-1R	120.8	85.7	27.9	35.7	22.1	0.0	29.0	6.1	2.4
Chieftain	116.2	83.6	40.1	41.2	2.3	0.0	32.5	0.0	2.8
NDTX050239-2R	101.6	20.0	20.0	0.0	0.0	0.0	79.6	2.0	3.2
ATX03550-2R	87.7	61.0	43.6	17.4	0.0	0.0	22.7	4.1	3.2
NDTX039190-1R	72.0	37.8	8.1	29.6	0.0	0.0	29.6	4.6	2.9
ATX98453-6R	29.0	24.4	17.4	7.0	0.0	0.0	4.6	0.0	3.3
Average	194.1	111.6	64.3	44.7	2.6	0.0	77.6	4.9	3.3
L.S.D. (.05)	67.1	48.7	30.0	40.1	9.3		42.3	ns	0.3

<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 25 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	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				
BTX2332-1R	71.1	36.9	34.1	0.0	0.0	28.8	0.1	1.047	11.0	Round	Red
ATX03516-2R	64.5	28.4	29.3	6.8	0.0	33.0	2.5	1.036	9.0	Round	Red
COTX06169-3R	87.5	79.5	8.0	0.0	0.0	11.9	0.6	1.046	10.7	Round	Red
COTX05211-7R	22.7	17.4	5.3	0.0	0.0	76.0	1.4	1.050	11.4	Oblong	Red
AOTX91861-4R	57.5	38.7	18.7	0.0	0.0	42.2	0.3	1.043	10.1	Oblong	Red
NDTX050070-1R	34.5	15.2	18.5	0.9	0.0	61.4	4.0	1.050	11.4	Round	Red
Dark Red Norland	76.8	42.1	34.6	0.0	0.0	18.8	4.4	1.042	10.0	Oblong	Red
Red LaSoda	68.4	39.7	28.7	0.0	0.0	28.5	3.1	1.045	10.5	Oblong	Red
NDTX4784-7R	61.9	28.8	28.8	4.3	0.0	36.9	1.2	1.039	9.4	Round	Red
COTX94218-1R	27.0	26.4	0.7	0.0	0.0	68.1	4.9	1.050	11.5	Round	Red
NDTX5438-11R	54.9	47.9	6.9	0.0	0.0	44.7	0.4	1.043	10.1	Oblong	Red
COTX94216-1R	64.0	44.1	19.9	0.0	0.0	29.4	6.6	1.048	11.2	Oblong	Red
COTX05211-4R	41.2	41.2	0.0	0.0	0.0	54.4	4.4	1.042	9.9	Oblong	Red
ATTX98453-11BR	35.5	10.3	25.1	0.0	0.0	62.7	1.8	1.050	11.5	Oblong	Red
Rio Rojo	49.0	17.5	29.0	2.5	0.0	47.9	3.1	1.037	9.2	Oblong	Red
NDTX731-1R	67.1	43.9	23.1	0.0	0.0	30.5	2.4	1.048	11.1	Round	Red
AOTX01178-1R	72.6	25.1	47.4	0.0	0.0	24.5	2.9	1.049	11.2	Round	Red
COTX00104-7R	60.2	27.4	29.3	3.5	0.0	35.7	4.1	1.043	10.2	Oblong	Red
NDTX4271-5R	72.6	19.2	53.4	0.0	0.0	24.1	3.2	1.034	8.5	Round	Red
AOTX93483-1R	64.5	22.2	25.5	16.8	0.0	30.7	4.8	1.047	11.0	Oblong	Red
Chieftain	68.5	24.0	43.2	1.4	0.0	31.5	0.0	1.045	10.6	Round	Red
NDTX050239-2R	19.3	19.3	0.0	0.0	0.0	78.7	2.0	1.052	11.8	Round	Red
ATX03550-2R	71.1	52.6	18.5	0.0	0.0	26.0	2.9	1.047	10.9	Oblong	Red
NDTX039190-1R	49.4	12.6	36.9	0.0	0.0	44.6	5.9	1.043	10.2	Round	Red
ATTX98453-6R	84.0	60.0	24.0	0.0	0.0	16.0	0.0	1.055	12.3	Oblong	Red
Average	57.8	32.8	23.6	1.4	0.0	39.5	2.7	1.045	10.6		
L.S.D. (.05)	14.0	14.7	16.9	4.3		15.0	ns	0.005	0.9		

Dalhart  
Table 8c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 25 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
BTX2332-1R	4.6	5.2	64	94	1.8	4.1	4.5	4.3	4
ATX03516-2R	4.1	5.1	73	100	2.4	3.5	2.7	3.4	63
COTX06169-3R	6.8	11.0	9	53	1.8	3.7	4.0	3.9	5
COTX05211-7R	7.6	2.6	100	100	2.1	3.5	4.3	3.5	8
AOTX91861-4R	4.8	4.1	54	90	1.8	4.1	4.4	4.3	11
NDTX050070-1R	5.7	2.9	83	99	1.5	4.4	4.5	4.3	3
Dark Red Norland	4.2	5.4	50	79	2.3	2.9	2.9	3.0	46
Red LaSoda	3.8	4.4	91	98	1.5	4.6	4.9	4.9	3
NDTX4784-7R	5.7	4.7	35	68	2.1	3.4	3.0	3.7	44
COTX94218-1R	5.7	2.7	100	99	1.5	4.1	3.6	4.4	10
NDTX5438-11R	4.8	4.0	51	78	1.5	3.9	4.3	3.9	13
COTX94216-1R	3.7	5.0	55	78	2.0	3.7	4.2	3.9	6
COTX05211-4R	5.9	3.5	44	63	2.3	3.6	4.0	4.0	18
ATX98453-11BR	8.6	3.1	45	71	2.1	2.8	3.0	3.2	11
Rio Rojo	4.9	3.9	58	68	2.3	3.3	2.5	3.3	55
NDTX731-1R	5.4	4.4	30	53	2.0	3.2	3.1	3.4	31
AOTX01178-1R	6.5	5.0	28	48	1.6	3.5	4.5	3.7	1
COTX00104-7R	2.7	4.2	58	90	2.1	3.6	4.1	3.4	13
NDTX4271-5R	4.8	5.2	25	58	2.5	2.7	3.1	3.1	34
AOTX93483-1R	2.1	5.3	18	78	1.9	3.5	4.5	3.7	5
Chieftain	3.6	4.6	11	54	1.5	2.5	3.7	2.6	6
NDTX050239-2R	2.8	2.8	36	88	1.6	4.0	4.1	4.1	3
ATX03550-2R	1.5	5.3	28	75	1.9	3.0	3.3	3.3	36
NDTX039190-1R	2.5	3.5	19	55	1.8	3.1	3.8	3.2	13
ATX98453-6R	0.8	4.4	5	60	1.9	3.0	3.6	3.3	9
Average	4.5	4.5	47	76	1.9	3.5	3.8	3.6	18
L.S.D. (.05)	3.9	0.9	20	27	0.5	0.9	0.9	0.8	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 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 25 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	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
BTX2332-1R	1.0	2.0	1.0	4.5	4.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
ATX03516-2R	1.0	2.6	1.0	4.5	3.9	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX06169-3R	1.0	2.5	1.0	4.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX05211-7R	1.0	3.4	1.0	3.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX91861-4R	1.0	3.4	1.0	3.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	3	0
NDTX050070-1R	1.0	2.4	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Dark Red Norland	1.0	3.5	1.0	2.8	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Red LaSoda	1.0	3.5	1.0	2.0	2.9	5.0	5.0	5.0	5.0	5.0	0	0	8	0
NDTX4784-7R	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
COTX94218-1R	1.0	1.6	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX5438-11R	1.0	3.3	1.0	4.0	3.3	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX94216-1R	1.0	3.0	1.0	3.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX05211-4R	1.0	3.0	1.0	4.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98453-11BR	1.0	3.0	1.0	4.0	3.6	5.0	5.0	5.0	5.0	4.4	0	0	0	0
Rio Rojo	1.0	3.3	1.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX731-1R	1.0	2.1	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	13	0
AOTX01178-1R	1.0	2.0	1.0	4.5	3.0	5.0	5.0	5.0	5.0	4.5	0	0	0	0
COTX00104-7R	1.0	3.5	1.0	4.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX4271-5R	1.0	1.6	1.0	4.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX93483-1R	1.0	3.6	1.0	4.5	2.9	5.0	5.0	5.0	5.0	3.0	0	0	0	0
Chieftain	1.0	2.5	1.0	4.5	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050239-2R	1.0	1.5	1.0	4.4	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX03550-2R	1.0	3.4	1.0	4.5	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX039190-1R	1.0	2.0	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	3
ATTX98453-6R	1.0	3.5	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	1.0	2.7	1.0	3.9	3.4	5.0	5.0	5.0	5.0	4.8	0	0	1	0
L.S.D. (.05)	ns	0.2	ns	0.5	0.3	ns	ns	ns	ns	0.3	ns	ns	ns	ns

<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 25 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
BTX2332-1R	heat sprouts+, feathering, nice flesh	3.7, 4, 4, 4
ATX03516-2R	large tubers, heat sprouts	3.7, 3.8, 3.6, 3.6
COTX06169-3R	only 2 tubers in 1 rep	2.5, 2.5, 2.5, 2.5
COTX05211-7R	keep, road map, drop, heavy set	3.7, 3.3, 3, 3
AOTX91861-4R	silver scurf	3.3, 3.3, 3.3, 3.5
NDTX050070-1R	does not oversize, road map	3.4, 3.8, 3.8, 3.6
Dark Red Norland	road map, deep eyes	2.5, 3, 3.3, 3
Red LaSoda	rough, deep eyes	3, 3, 3, 3
NDTX4784-7R	BOT-, heat sprouts. bad rep(drop?), nice	3.8, 2.8, 3, 3.7
COTX94218-1R	heavy set, B size, silver scurf, sticky stolon	3.6, 3.2, 3.4, 3.3
NDTX5438-11R	heat sprouts., smooth, nice +	3.7, 4, 3.5, 3.7
COTX94216-1R	silver scurf, pronounced eyes	3.3, 3.5, 3.5, 3.5
COTX05211-4R		3.2, 3.2, 3.2, 3.2
ATTX98453-11BR	heat sprouts, small	3.2, 3.7, 3.8, 3.3
Rio Rojo	growth crack	3.5, 3.8, 3.5, 3.8
NDTX731-1R	sand paper skin	3.6, 3.8, 3.4, 3.8
AOTX01178-1R	feathering	3.5, 3.5, 3.2, 3.2
COTX00104-7R	ugly, pointed, drop++, road map, heat sprouts, sticky stolon, poor skin finish	2.8, 2.8, 2.8, 3
NDTX4271-5R	sticky stolon, heat sprouts, BOT	3.8, 4, 4.5, 4
AOTX93483-1R	feathering, heat sprouts, drop	2.5, 1.5, 2.8, 2.8
Chieftain		2.8, 2.8, 2.8, 2.8
NDTX050239-2R	heat sprouts, small, low yield, silver scurf, road map, good color	3.3, 3, 3.3, 3
ATX03550-2R	drop, light set, low yield	3, 3.3, 3.4, 3
NDTX039190-1R	4 tubers, bad rep, silver scurf, drop	2.5, 3, 3.5, 2.5
ATTX98453-6R	2 tubers, light set	3.3, 3.3, 3.3, 3.3

Dalhart  
Table 8f.

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 25 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Gravity	% Solids	General Rating <sup>1</sup>	Tuber Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
BTX2332-1R	1.047	11.0	3.9					0%
ATX03516-2R	1.036	9.0	3.7	3	7/24	6 V Dark, 5 BC	0%	0%
COTX06169-3R	1.046	10.7	2.5					0%
COTX05211-7R	1.050	11.4	3.3	2	10/28	10 V Dark	0%	0%
AOTX91861-4R	1.043	10.1	3.4					0%
NDTX050070-1R	1.050	11.4	3.7	3	12/28	28 Dark	0%	0%
Dark Red Norland	1.042	10.0	3.0					0%
Red LaSoda	1.045	10.5	3.0					0%
NDTX4784-7R	1.039	9.4	3.3	3	2/41	23 V Dark, 2 GH, 1 TM	0%	0%
COTX94218-1R	1.050	11.5	3.4	3	27/121	16 V Dark	0%	0%
NDTX5438-11R	1.043	10.1	3.7					0%
COTX94216-1R	1.048	11.2	3.5					0%
COTX05211-4R	1.042	9.9	3.2					0%
ATX98453-11BR	1.050	11.5	3.5					3%
Rio Rojo	1.037	9.2	3.7					0%
NDTX731-1R	1.048	11.1	3.7	3	1/28	14 Dark	0%	3%
AOTX01178-1R	1.049	11.2	3.4	3	0/21	1 GH, 2 V Dark	0%	0%
COTX00104-7R	1.043	10.2	2.9					0%
NDTX4271-5R	1.034	8.5	4.1	3+	0/26	20 V Dark	0%	0%
AOTX93483-1R	1.047	11.0	2.4					0%
Chieftain	1.045	10.6	2.8					0%
NDTX050239-2R	1.052	11.8	3.2	3	3/39	3 V Dark	0%	0%
ATX03550-2R	1.047	10.9	3.2					0%
NDTX039190-1R	1.043	10.2	2.9					0%
ATX98453-6R	1.055	12.3	3.3					0%

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

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

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

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

Dalhart  
Table 9

Inventory weight of 5 entries to be Advanced from the 2009 Red  
Selection Trial grown near Dalhart, Texas-2010.

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Variety or Selection	Trial	Inventory Weight
ATTX06246-1R	09SEL	8
ATX07144-1R	09SEL	5
COTX07054-2R	09SEL	7
COTX07154-1R	09SEL	7
NDTX071407B-2R	09SEL	2

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Dalhart 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 Texas Advanced  
 Table 10a. Red Skin Yellow Flesh Trial grown near Dalhart, Texas-2010.

Variety or Selection	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	374.6	243.1	135.0	108.0	0.0	0.0	104.8	26.7	3.1
NDTX050184-1R/Y	336.6	77.8	59.8	18.0	0.0	0.0	251.5	7.3	3.7
ATTX98510-1R/Y	304.3	95.3	71.4	23.8	0.0	0.0	203.3	5.8	3.2
ATTX961014-1BR/Y	275.0	140.3	80.2	60.1	0.0	0.0	118.5	16.3	3.9
ATTX88654-2P/Y	269.5	141.7	85.1	56.6	0.0	0.0	118.2	9.6	3.2
COTX01403-4R/Y	251.2	169.3	62.7	86.8	19.7	0.0	68.2	13.6	3.8
ATTX961014-1R/Y	236.4	122.8	59.8	60.1	2.9	0.0	101.6	11.9	3.6
ATTX03553-1P/Y	209.7	93.2	60.7	32.5	0.0	0.0	114.7	1.7	3.0
COTX04267-1R/Y	199.8	44.7	27.6	17.1	0.0	0.0	143.5	11.6	3.3
COTX06240-2R/Y	195.1	70.0	39.8	30.2	0.0	0.0	114.1	11.0	3.4
ATX03546-2R/Y	194.0	60.7	49.7	11.0	0.0	0.0	124.0	9.3	3.2
NDTX060725-1P	192.0	72.0	45.3	26.7	0.0	0.0	119.9	0.0	3.4
ATTX05191-3R/Y	191.1	51.7	29.0	22.7	0.0	0.0	134.7	4.6	3.2
COTX06235-2R/Y	188.2	129.5	82.8	46.8	0.0	0.0	57.2	1.5	3.4
COTX04193-2R/Y	178.9	35.7	16.0	19.7	0.0	0.0	138.5	4.6	3.4
ATX05175-3R/Y	177.4	9.3	9.3	0.0	0.0	0.0	161.8	6.4	3.7
ATX03515-1R/Y	171.6	76.4	48.8	20.9	6.7	0.0	88.0	7.3	3.6
NDTX060868-4R/Y	163.8	66.8	43.0	23.8	0.0	0.0	92.9	4.1	3.0
COTX04188-3R/Y	152.8	14.2	5.8	8.4	0.0	0.0	136.8	1.7	3.5
ATX06282-1R/Y	132.7	65.9	35.4	30.5	0.0	0.0	58.1	8.7	3.4
BTX2103-1R/Y	120.5	41.2	18.9	22.4	0.0	0.0	79.3	0.0	3.1
ATTX03516-2R/Y	82.5	48.8	23.2	25.6	0.0	0.0	33.7	0.0	3.5
COTX06245-3R/Y	59.2	40.4	11.0	16.3	13.1	0.0	18.9	0.0	3.5
ATTX02249-1R	Drop								
ATTX99325-1P	Drop								
ATX98448-6R/Y	Drop								
COTX05261-1R/Y	Drop								
Average	202.5	83.1	47.8	33.4	1.8	0.0	112.3	7.1	3.4
L.S.D. (.05)	49.6	47.1	31.2	25.2	ns		41.3	10.8	0.3

<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 27 entries in the Texas Advanced Red Skin Yellow Flesh Trial grown near Dalhart, Texas-2010.

Variety or Selection	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	64.4	35.9	28.6	0.0	0.0	28.2	7.4	1.039	9.4	Oblong	Red
NDTX050184-1R/Y	22.3	17.2	5.1	0.0	0.0	75.6	2.2	1.046	10.7	Round	Red
ATTX98510-1R/Y	29.0	21.7	7.3	0.0	0.0	68.7	2.3	1.052	11.9	Oblong	Red
ATTX961014-1BR/Y	48.7	26.8	22.0	0.0	0.0	45.1	6.2	1.054	12.2	Oblong	Red
ATTX88654-2P/Y	51.7	31.3	20.5	0.0	0.0	44.8	3.4	1.063	13.7	Round	Purple
COTX01403-4R/Y	67.1	25.4	35.9	5.8	0.0	28.4	4.5	1.053	12.0	Oblong	Red
ATTX961014-1R/Y	52.4	25.2	26.0	1.2	0.0	42.8	4.8	1.056	12.5	Oblong	Red
ATTX03553-1P/Y	45.5	29.5	16.1	0.0	0.0	53.7	0.8	1.053	12.1	Round	Purple
COTX04267-1R/Y	21.5	13.7	7.8	0.0	0.0	72.2	6.3	1.042	10.1	Round	Red
COTX06240-2R/Y	36.4	20.7	15.7	0.0	0.0	58.0	5.6	1.049	11.2	Oblong	Red
ATX03546-2R/Y	30.4	23.9	6.4	0.0	0.0	65.7	4.0	1.050	11.4	Round	Red
NDTX060725-1P	37.9	24.3	13.6	0.0	0.0	62.1	0.0	1.054	12.2	Round	Purple
ATTX05191-3R/Y	25.4	16.6	8.8	0.0	0.0	72.3	2.3	1.051	11.6	Oblong	Red
COTX06235-2R/Y	68.2	43.7	24.5	0.0	0.0	30.9	0.9	1.043	10.3	Oblong	Red
COTX04193-2R/Y	17.2	7.1	10.0	0.0	0.0	80.3	2.6	1.051	11.6	Round	Red
ATX05175-3R/Y	5.6	5.6	0.0	0.0	0.0	90.9	3.4	1.058	12.8	Round	Red
ATX03515-1R/Y	45.8	29.0	12.8	4.0	0.0	50.2	4.0	1.056	12.4	Oblong	Red
NDTX060868-4R/Y	40.4	26.1	14.3	0.0	0.0	57.2	2.4	1.050	11.5	Oblong	Red
COTX04188-3R/Y	7.7	3.8	3.9	0.0	0.0	91.4	0.9	1.065	14.1	Round	Red
ATX06282-1R/Y	48.0	24.2	23.9	0.0	0.0	45.7	6.3	1.038	9.4	Round	Red
BTX2103-1R/Y	35.5	16.7	18.8	0.0	0.0	64.5	0.0	1.055	12.4	Oblong	Red
ATTX03516-2R/Y	59.2	28.2	31.0	0.0	0.0	40.8	0.0	1.038	9.4	Oblong	Red
COTX06245-3R/Y	57.0	15.3	28.5	13.2	0.0	43.0	0.0	1.038	9.4	Oblong	Red
ATTX02249-1R	Drop										
ATTX99325-1P	Drop										
ATX98448-6R/Y	Drop										
COTX05261-1R/Y	Drop										
Average	39.9	22.3	16.6	1.1	0.0	57.1	3.1	1.050	11.5		
L.S.D. (.05)	21.0	11.8	15.1			20.8	4.2	0.010	1.7		

Dalhart  
Table 10c. Average number of tubers per plant, average tuber weight, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 27 entries in the Texas Advanced Red Skin Yellow Flesh Trial grown near Dalhart, Texas-2010.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
ATTX00289-5R/Y	4.9	5.2	54	95	1.5	4.7	4.6	4.7	3
NDTX050184-1R/Y	8.7	2.6	98	100	1.8	4.2	4.9	4.1	0
ATTX98510-1R/Y	6.5	3.1	85	100	1.8	4.5	4.8	4.7	0
ATTX961014-1BR/Y	4.7	3.9	74	96	2.4	3.4	3.4	3.6	29
ATTX88654-2P/Y	4.3	4.2	98	100	1.6	4.4	4.9	4.5	0
COTX01403-4R/Y	3.7	5.2	48	88	1.5	2.8	3.4	3.7	24
ATTX961014-1R/Y	4.0	4.3	39	91	2.3	3.4	3.3	3.6	43
ATTX03553-1P/Y	5.1	3.4	31	86	1.5	4.3	4.2	3.4	8
COTX04267-1R/Y	4.7	3.0	71	94	2.5	3.5	3.6	3.5	19
COTX06240-2R/Y	4.6	3.4	39	85	1.6	3.8	3.4	4.0	1
ATX03546-2R/Y	6.6	2.8	65	80	2.3	3.3	4.0	3.3	12
NDTX060725-1P	6.0	3.0	50	78	1.9	2.4	3.0	2.2	40
ATTX05191-3R/Y	5.9	2.4	68	89	1.5	3.8	5.0	3.8	5
COTX06235-2R/Y	3.4	4.2	50	90	1.8	4.0	4.6	4.0	4
COTX04193-2R/Y	5.2	2.7	64	86	2.8	3.0	1.6	3.1	71
ATX05175-3R/Y	5.6	2.1	85	98	2.0	3.2	4.0	3.1	10
ATX03515-1R/Y	5.2	3.2	55	70	2.3	2.7	2.9	2.9	45
NDTX060868-4R/Y	6.8	3.0	25	58	2.1	3.2	3.4	3.1	20
COTX04188-3R/Y	4.4	2.5	80	94	1.6	3.7	3.6	4.0	19
ATX06282-1R/Y	2.7	3.6	44	88	1.5	4.2	4.5	4.1	1
BTX2103-1R/Y	2.7	3.4	45	96	1.5	4.3	4.5	4.4	1
ATTX03516-2R/Y	7.3	4.2	5	28	1.5	2.5	3.5	2.8	16
COTX06245-3R/Y	1.7	4.6	20	75	1.5	3.7	3.9	4.1	4
ATTX02249-1R	Drop								
ATTX99325-1P	Drop								
ATX98448-6R/Y	Drop								
COTX05261-1R/Y	Drop								
Average	5.0	3.5	56	85	1.8	3.6	3.9	3.7	16
L.S.D. (.05)	2.1	0.9	21	18	0.6	0.8	1.0	1.0	20

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

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

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

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

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 27 entries in the Texas Advanced Red Skin Yellow Flesh Trial grown near Dalhart, Texas-2010.

Variety or Selection	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	2.0	3.5	1.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050184-1R/Y	2.5	1.8	1.0	4.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	3	0
ATTX98510-1R/Y	1.5	3.5	1.0	4.0	2.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX961014-1BR/Y	2.0	3.4	1.0	4.5	2.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX88654-2P/Y	1.5	2.0	1.0	4.3	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX01403-4R/Y	2.3	3.5	1.0	4.5	2.9	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX961014-1R/Y	1.8	3.5	1.0	4.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX03553-1P/Y	1.5	2.0	1.0	3.0	4.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04267-1R/Y	3.0	2.5	1.0	4.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX06240-2R/Y	2.5	3.1	1.0	4.5	3.2	5.0	5.0	5.0	5.0	5.0	0	0	5	0
ATX03546-2R/Y	2.5	1.8	1.0	4.5	2.8	5.0	5.0	5.0	5.0	5.0	0	0	8	5
NDTX060725-1P	1.0	1.5	1.0	4.5	4.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX05191-3R/Y	2.0	3.0	1.0	4.5	2.4	5.0	5.0	5.0	5.0	5.0	0	0	0	10
COTX06235-2R/Y	3.0	3.3	1.0	4.5	3.3	5.0	5.0	5.0	5.0	3.5	0	0	0	0
COTX04193-2R/Y	3.0	2.0	1.0	4.5	2.3	5.0	5.0	5.0	5.0	5.0	0	0	3	0
ATX05175-3R/Y	2.1	1.5	1.0	3.8	3.2	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX03515-1R/Y	2.0	3.0	1.0	4.0	1.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX060868-4R/Y	2.0	3.5	1.0	4.5	1.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04188-3R/Y	2.9	2.2	1.0	4.5	2.3	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX06282-1R/Y	2.3	3.2	1.0	4.5	1.5	5.0	5.0	5.0	5.0	3.0	0	0	5	0
BTX2103-1R/Y	3.0	3.5	1.0	4.5	2.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX03516-2R/Y	3.0	3.5	1.0	4.5	3.5	5.0	5.0	5.0	5.0	5.0	3	0	3	0
COTX06245-3R/Y	2.5	3.5	1.0	4.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX02249-1R	Drop													
ATTX99325-1P	Drop													
ATX98448-6R/Y	Drop													
COTX05261-1R/Y	Drop													
Average	2.3 0.3	2.8 0.2	1.0 ns	4.3 0.2	2.9 0.2	5.0 ns	5.0 ns	5.0 ns	5.0 ns	4.8 0.1	0 ns	0 ns	1 ns	1 ns

<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 27 entries in the Texas Advanced Red Skin Yellow Flesh Trial  
Table 10e. grown near Dalhart, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
ATTX00289-5R/Y	yield+, heat sprouts, sticky stolon, silver scurf, drop+++	3.5, 2.7, 3, 3
NDTX050184-1R/Y	b size, small potato??	3.8, 3.4, 3.8, 3.8
ATTX98510-1R/Y	heavy set, drop++	3.5, 3.2, 3, 3
ATTX961014-1BR/Y	smooth, BOT	4, 4, 3.8, 3.8
ATTX88654-2P/Y	light flesh, silver scurf, heat sprouts, drop, deep nose and eyes	3.3, 3.3, 3, 3
COTX01403-4R/Y	large tubers, heat sprouts, smooth	3.9, 3.5, 3.8, 3.8
ATTX961014-1R/Y	silver scurf+, light flesh	3.8, 3.5, 3.7, 3.2
ATTX03553-1P/Y	deep eyes, poor skin finish, drop, poor internal, low yield, road map	3, 3, 2.8, 3
COTX04267-1R/Y	drop	3.7, 3.4, 3, 3
COTX06240-2R/Y	silver scurf, bad rep	3.2, 3.5, 3.5, 3.2
ATX03546-2R/Y	silver scurf, nice flesh, heat sprouts, mixed flesh color, drop+	3.4, 3, 3, 3.2
NDTX060725-1P	nice, silver scurf, road map,	3.7, 3.5, 3.2, 3.2
ATTX05191-3R/Y	drop, heat sprouts, poor internal, drop?	3, 3.4, 3, 3.2
COTX06235-2R/Y	nice shape, silver scurf	3.8, 3.2, 3.5, 3
COTX04193-2R/Y	keep, silver scurf, heat sprouts, mix	3.8, 3.2, 3.4, 3.1
ATX05175-3R/Y	B size	3.9, 3.6, 3.6, 3.6
ATX03515-1R/Y	crisp,	3.7, 3.6, 3.5, 3.5
NDTX060868-4R/Y		3, 3, 3, 3
COTX04188-3R/Y	heat sprouts, smooth, B size, small potato??, small	3.5, 3.4, 3.4, 3.5
ATX06282-1R/Y	feathering, heat sprouts, pointed, sticky stolon	3.6, 3.6, 3.5, 2.8
BTX2103-1R/Y	drop?, heat spouts, silver scurf	3.1, 3, 3, 3.2
ATTX03516-2R/Y	smooth	3.5, 3.5, 3.5, 3.5
COTX06245-3R/Y	large tubers, pointed	3.7, 3.7, 3.2, 3.2
ATTX02249-1R	Drop	
ATTX99325-1P	Drop	
ATX98448-6R/Y	Drop	
COTX05261-1R/Y	Drop	

Dalhart  
Table 10f.

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 27 entries in the Texas Advanced Red Skin Yellow Flesh Trial grown near Dalhart, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
ATTX00289-5R/Y	1.039	9.4	3.1					0%
NDTX050184-1R/Y	1.046	10.7	3.7					3%
ATTX98510-1R/Y	1.052	11.9	3.2	3	14/77	47 Dark, 5 GH, 1 BC	2%	0%
ATTX961014-1BR/Y	1.054	12.2	3.9	2	23/17	6 Dark	3%	0%
ATTX88654-2P/Y	1.063	13.7	3.2	2	23/17	1 Dark, 2 GH	0%	0%
COTX01403-4R/Y	1.053	12.0	3.8	3	9/29	18 Dark	3%	0%
ATTX961014-1R/Y	1.056	12.5	3.6					0%
ATTX03553-1P/Y	1.053	12.1	3.0	2	21/18	2GH, 1 TM	15%	0%
COTX04267-1R/Y	1.042	10.1	3.3					0%
COTX06240-2R/Y	1.049	11.2	3.4	3	0/40		5%	3%
ATX03546-2R/Y	1.050	11.4	3.2	3	2/38	14 V Dark	3%	0%
NDTX060725-1P	1.054	12.2	3.4	2	7/22	2 Dark, 3 TM	0%	0%
ATTX05191-3R/Y	1.051	11.6	3.2	3+	0/40	40 V Dark	0%	0%
COTX06235-2R/Y	1.043	10.3	3.4	2	11/28	5 Dark	0%	0%
COTX04193-2R/Y	1.051	11.6	3.4					0%
ATX05175-3R/Y	1.058	12.8	3.7					0%
ATX03515-1R/Y	1.056	12.4	3.6					0%
NDTX060868-4R/Y	1.050	11.5	3.0	3	9/31	15 Dark	8%	0%
COTX04188-3R/Y	1.065	14.1	3.5					0%
ATX06282-1R/Y	1.038	9.4	3.4	3	1/40	13 V Dark	2%	0%
BTX2103-1R/Y	1.055	12.4	3.1					0%
ATTX03516-2R/Y	1.038	9.4	3.5	3	1/19	2 Dark	0%	0%
COTX06245-3R/Y	1.038	9.4	3.5	2	4/21	6 Dark, 2 TM, 1 GH	16%	0%
ATTX02249-1R	Drop							
ATTX99325-1P	Drop							
ATX98448-6R/Y	Drop							
COTX05261-1R/Y	Drop							

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 11a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 24 entries in the Texas Advanced White Skin Yellow Flesh Trial grown near Dalhart, Texas-2010.

Variety or Selection	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				
NDTX050169-2W/Y	518.4	312.5	162.9	129.8	19.7	0.0	168.4	37.5	3.2
NDTX049265-2WRSP/Y	386.8	257.0	119.9	104.3	32.8	0.0	103.7	26.1	2.7
NDTX060868-3Y/Y	374.0	244.8	126.6	108.9	9.3	0.0	111.8	17.4	3.3
TXYG098	365.0	268.0	59.2	158.8	49.9	29.6	45.9	21.5	3.9
TXYG055	342.7	309.0	87.4	106.6	115.0	0.0	27.0	6.7	3.6
ATTX98500-3PW/Y	328.2	233.8	136.8	87.1	9.9	0.0	74.6	19.7	2.5
TXYG057	325.8	284.9	52.6	155.7	76.7	0.0	32.8	8.1	3.9
TX06308-1Y/Y	309.9	66.5	46.5	13.9	6.1	0.0	214.3	29.0	3.3
TXYG079	301.7	257.9	56.0	86.2	115.6	18.6	16.3	9.0	3.9
BTX1749-1W/Y	292.1	235.8	68.5	115.0	52.3	6.4	43.0	7.0	3.5
TX04237-6Y/Y	291.3	158.6	125.7	32.8	0.0	0.0	116.2	16.6	3.0
NDTX050025-1W/Y	288.1	110.6	92.1	18.6	0.0	0.0	165.2	12.2	3.1
Yukon Gold	287.8	234.4	39.2	41.5	153.6	14.5	15.7	23.2	3.8
BTX1544-2W/Y	255.0	192.5	56.6	55.8	80.2	0.0	34.8	27.6	3.2
TX06308-2Y/Y	242.5	72.0	58.7	13.4	0.0	0.0	163.8	6.7	3.4
ATX03496-3Y/Y	214.3	96.1	75.2	20.9	0.0	0.0	102.5	15.7	2.9
NDTX059759-3Pinto/Y	202.7	150.4	82.8	67.7	0.0	0.0	48.5	3.8	3.3
NDTX050264-1W	167.9	71.7	63.0	5.5	3.2	0.0	88.0	8.1	2.8
NDTX060700C-1W	164.6	52.8	39.7	13.1	0.0	0.0	109.8	2.0	3.0
TX1674-1W/Y	143.2	114.7	53.4	48.8	12.5	0.0	22.4	6.1	2.9
Sierra Gold	140.0	122.5	19.5	55.5	47.6	0.0	10.7	6.7	2.6
ATX06354-1W/Y	126.3	40.7	32.8	4.6	3.2	0.0	81.3	4.4	2.5
ATX05188-1Y/Y	118.8	36.6	33.4	3.2	0.0	0.0	70.0	12.2	2.0
ATTX00289-6Y/Y	95.3	63.0	19.7	15.1	28.2	0.0	22.9	9.3	2.6
Average	261.8	166.1	71.2	60.9	34.0	2.9	78.7	14.0	3.1
L.S.D. (.05)	45.9	45.0	38.1	42.2	44.2	11.6	29.3	12.9	0.4

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

Dalhart  
Table 11b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 24 entries in the Texas Advanced White Skin Yellow Flesh Trial grown near Dalhart, Texas-2010.

Variety or Selection	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				
NDTX050169-2W/Y	60.4	31.6	24.9	3.9	0.0	32.4	7.2	1.047	10.9	Oblong	White
NDTX049265-2WRSP/Y	66.4	30.0	27.4	9.0	0.0	26.7	6.8	1.041	9.9	Oblong	White-Red Splsh
NDTX060868-3Y/Y	66.1	33.7	30.0	2.4	0.0	29.4	4.5	1.044	10.4	Long	Yellow
TXYG098	75.3	16.2	42.9	16.2	7.0	12.2	5.5	1.060	13.3	Oblong	White
TXYG055	90.2	25.6	31.3	33.2	0.0	7.9	1.9	1.035	8.8	Oblong	White
ATX98500-3PW/Y	71.2	41.7	26.2	3.3	0.0	22.8	6.0	1.058	12.9	Oblong	Purple-White
TXYG057	87.9	15.9	47.5	24.4	0.0	9.7	2.4	1.058	12.9	Oblong	White
TX06308-1Y/Y	21.1	15.1	4.3	1.7	0.0	69.6	9.3	1.041	9.8	Oblong	Yellow
TXYG079	85.7	18.3	27.8	39.6	6.2	5.2	2.9	1.064	13.9	Oblong	White
BTX1749-1W/Y	80.7	23.4	39.4	17.9	2.2	14.7	2.4	1.062	13.6	Oblong	White
TX04237-6Y/Y	52.8	41.9	10.9	0.0	0.0	41.6	5.6	1.056	12.4	Round	Yellow
NDTX050025-1W/Y	38.3	32.0	6.3	0.0	0.0	57.5	4.2	1.066	14.4	Oblong	White
Yukon Gold	81.8	12.8	18.1	50.8	4.3	5.2	8.6	1.060	13.3	Oblong	White
BTX1544-2W/Y	75.9	22.2	23.4	30.2	0.0	13.9	10.2	1.059	13.0	Oblong	White
TX06308-2Y/Y	30.0	25.0	5.0	0.0	0.0	67.4	2.6	1.050	11.5	Oblong	Yellow
ATX03496-3Y/Y	45.3	35.1	10.2	0.0	0.0	47.7	7.0	1.046	10.6	Oblong	Yellow
NDTX059759-3Pinto/Y	72.5	40.6	31.9	0.0	0.0	25.2	2.3	1.043	10.1	Oblong	Pinto
NDTX050264-1W	42.9	38.3	2.9	1.6	0.0	52.3	4.9	1.048	11.1	Round	White
NDTX060700C-1W	31.0	23.6	7.4	0.0	0.0	67.9	1.1	1.077	16.3	Round	White
TX1674-1W/Y	78.3	38.0	31.5	8.8	0.0	17.0	4.7	1.063	13.7	Oblong	White
Sierra Gold	86.9	13.0	35.3	38.6	0.0	7.1	6.1	1.056	12.6	Oblong	Russet
ATX06354-1W/Y	33.5	28.2	3.2	2.2	0.0	63.4	3.1	1.043	10.2	Oblong	White
ATX05188-1Y/Y	30.3	28.2	2.1	0.0	0.0	58.3	11.4	1.044	10.3	Round	Yellow
ATX00289-6Y/Y	65.4	19.9	16.6	29.0	0.0	27.1	7.5	1.047	10.9	Oblong	Yellow
Average	61.2	27.1	21.1	13.0	0.8	32.6	5.3	1.053	12.0		
L.S.D. (.05)	12.4	11.5	13.5	14.1	2.8	11.2		0.010	2.5		



Dalhart  
Table 11c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 24 entries in the Texas Advanced White Skin Yellow Flesh Trial grown near Dalhart, Texas-2010.

Variety or Selection	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>	
NDTX050169-2W/Y	11.2	3.0	0.0	93	100	1.5	4.7	3.7	4.8	10
NDTX049265-2WRSP/Y	6.7	3.8	0.0	84	100	2.3	3.6	3.6	4.0	21
NDTX060868-3Y/Y	6.5	3.9	0.0	71	100	1.5	4.4	3.4	4.3	26
TXYG098	3.8	6.5	0.0	75	100	1.5	4.2	3.1	4.4	40
TXYG055	3.9	5.9	0.0	73	100	1.5	4.2	2.7	3.9	55
ATTX98500-3PW/Y	6.9	3.4	0.0	75	90	1.5	4.9	4.7	4.9	1
TXYG057	3.6	6.1	0.0	79	100	1.5	3.9	2.9	3.7	46
TX06308-1Y/Y	13.7	1.5	0.0	75	100	2.0	4.2	4.0	3.8	9
TXYG079	3.1	6.8	0.0	59	100	1.5	4.3	3.2	4.1	31
BTX1749-1W/Y	5.0	5.2	0.0	50	80	2.3	3.5	2.4	3.6	59
TX04237-6Y/Y	6.1	3.1	0.0	66	100	1.5	4.4	3.5	4.5	15
NDTX050025-1W/Y	7.3	3.0	0.0	94	100	2.0	3.4	2.4	3.6	58
Yukon Gold	2.8	7.0	0.0	53	95	1.5	3.7	3.3	3.7	29
BTX1544-2W/Y	3.4	4.8	0.0	66	98	1.5	3.6	2.4	3.9	68
TX06308-2Y/Y	9.1	1.8	0.0	59	100	1.5	4.6	3.2	4.3	23
ATX03496-3Y/Y	5.0	2.8	0.0	89	100	2.0	3.1	2.7	3.3	44
NDTX059759-3Pinto/Y	3.3	4.0	0.0	75	100	1.5	4.3	3.2	4.4	4
NDTX050264-1W	6.7	2.1	0.0	41	80	1.5	3.9	3.6	4.1	13
NDTX060700C-1W	5.3	2.1	0.0	88	100	2.0	3.6	3.5	3.5	14
TX1674-1W/Y	2.3	4.2	0.0	49	100	1.5	4.7	3.6	4.4	14
Sierra Gold	4.5	4.5	0.0	28	63	2.0	3.9	2.8	3.8	60
ATX06354-1W/Y	5.1	1.7	0.0	83	100	1.5	4.7	4.9	4.8	0
ATX05188-1Y/Y	4.5	1.8	0.0	45	95	1.8	4.0	3.2	3.9	29
ATTX00289-6Y/Y	1.6	5.9	0.0	36	75	1.5	4.3	3.0	4.3	40
Average	5.5	4.0	0.0	67	95	1.7	4.1	3.3	4.1	29
L.S.D. (.05)	2.0	1.4		17	11	0.4	0.4	1.0	0.5	23

<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 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 24 entries in the Texas Advanced White Skin Yellow Flesh Trial grown near Dalhart, Texas-2010.

Variety or Selection	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
NDTX050169-2W/Y	1.8	3.0	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX049265-2WRSP/Y	2.5	3.1	1.0	14.6	1.0	5.0	5.0	5.0	5.0	5.0	0	3	0	0
NDTX060868-3Y/Y	2.5	4.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXYG098	3.5	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	3	0	0
TXYG055	3.5	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	3
ATTX98500-3PW/Y	3.0	3.5	1.5	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXYG057	3.5	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
TX06308-1Y/Y	2.0	3.3	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXYG079	3.5	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
BTX1749-1W/Y	2.0	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	3	0	0
TX04237-6Y/Y	1.9	2.3	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	3
NDTX050025-1W/Y	1.5	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Yukon Gold	3.0	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
BTX1544-2W/Y	2.3	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX06308-2Y/Y	2.0	3.6	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX03496-3Y/Y	3.1	3.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059759-3Pinto/Y	3.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050264-1W	1.6	2.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX060700C-1W	1.0	1.6	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX1674-1W/Y	3.0	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Sierra Gold	2.5	3.0	3.0	4.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	3
ATX06354-1W/Y	2.0	2.8	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05188-1Y/Y	1.5	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX00289-6Y/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
Average	2.4	3.1	1.1	4.8	1.1	5.0	5.0	5.0	5.0	5.0	1	0	0	0
L.S.D. (.05)	0.3	0.3	0.1	ns	0.1	ns	ns	ns	ns	ns	ns	ns	ns	ns

<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 Notes and general rating for all reps of 24 entries in the Texas Advanced White Skin Yellow Flesh Trial  
 Table 11e. grown near Dalhart, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
NDTX050169-2W/Y	heavy set, small, rough, baby baker, pear shape, ugly, lenticels, drop++	3.4, 3.2, 3.2, 2.8
NDTX049265-2WRSP/Y	rough, drop++	2.7, 2.5, 2.5, 3
NDTX060868-3Y/Y	pear shaped, keep?, fingerling?, pointed	3.2, 3.3, 3.4, 3.3
TXYG098	oversized, yield+, BOT-	4, 4, 3.8, 3.8
TXYG055	smaller than other strains	3.6, 3.8, 3.5, 3.6
ATTX98500-3PW/Y	pointed, purple pinto, poor shape, drop++	2.5, 2.5, 2.8, 2
TXYG057	lighter yield	3.8, 3.9, 3.9, 3.8
TX06308-1Y/Y	baby baker, small, heat sprouts, drop, heavy set, small potato	3, 3.4, 2.8, 4
TXYG079	, larger tubers, , BOT-	3.9, 3.9, 3.8, 3.8
BTX1749-1W/Y		3.5, 3.8, 3.4, 3.3
TX04237-6Y/Y	mixed flesh color, drop	3.2, 3, 2.8, 3
NDTX050025-1W/Y	lenticels, heavy set, baby baker	3.3, 3.2, 3, 3
Yukon Gold	oversized, smooth, ZC+	3.8, 3.8, 3.8, 3.7
BTX1544-2W/Y		3.5, 3.4, 3, 3
TX06308-2Y/Y	heat sprouts, small potato??	3, 3.7, 3, 3.7
ATX03496-3Y/Y	egg shaped, lenticles, nice flesh, heat sprouts, smooth, keep?	3, 2.8, 2.8, 2.8
NDTX059759-3Pinto/Y	BOT-, red pinto, some purple streaks in flesh, nice flesh, keep?, bad rep	3.6, 3.6, 3, 3
NDTX050264-1W	small potato??, keep, drop,	2.7, 3.5, 2.5, 2.5
NDTX060700C-1W	nice shape, small, drop++	3.4, 2.5, 3, 3
TX1674-1W/Y	keep, nice flesh, drop	3, 3.4, 2.5, 2.5
Sierra Gold	bad rep, rough, pointed	3.9, 2.5, 2, 2
ATX06354-1W/Y	heat sprouts, drop++	2.5, 2.5, 2.5, 2.5
ATX05188-1Y/Y	drop+++, pear shaped, heat sprouts	2.5, 1.5, 2, 2
ATTX00289-6Y/Y	red eyes, poor apperence	2.5, 2.5, 2.5, 3

Dalhart  
Table 11f.

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 24 entries in the Texas Advanced White Skin Yellow Flesh Trial grown near Dalhart, Texas-2010.

Variety or Selection	Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
NDTX050169-2W/Y	1.047	10.9	3.2					0%
NDTX049265-2WRSP/Y	1.041	9.9	2.7	3	21/19	1 sugar, 7 BC, 1 MB, 6 fresh ZC	13%	13%
NDTX060868-3Y/Y	1.044	10.4	3.3	3+	4/33	12 dark	11%	0%
TXYG098	1.060	13.3	3.9					13%
TXYG055	1.035	8.8	3.6					0%
ATX98500-3PW/Y	1.058	12.9	2.5	2	24/16		25%	8%
TXYG057	1.058	12.9	3.9					0%
TX06308-1Y/Y	1.041	9.8	3.3	3++	0/41	37 dark, 1 HH	5%	0%
TXYG079	1.064	13.9	3.9					5%
BTX1749-1W/Y	1.062	13.6	3.5	3	18/34	11 dark, 2 GH, 1 TM, 2 fresh ZC	10%	10%
TX04237-6Y/Y	1.056	12.4	3.0					0%
NDTX050025-1W/Y	1.066	14.4	3.1	2	17/25	10 dark	0%	0%
Yukon Gold	1.060	13.3	3.8	3	7/23	2 dark, 4 fresh ZC	10%	18%
BTX1544-2W/Y	1.059	13.0	3.2	3	30/31	6 dark, 2 GH, 1 TM	5%	3%
TX06308-2Y/Y	1.050	11.5	3.4	3	8/30	9 dark	8%	0%
ATX03496-3Y/Y	1.046	10.6	2.9					0%
NDTX059759-3Pinto/Y	1.043	10.1	3.3	3	17/22	2 dark	0%	0%
NDTX050264-1W	1.048	11.1	2.8	2	30/9		0%	5%
NDTX060700C-1W	1.077	16.3	3.0	1	33/6	BOT-	3%	0%
TX1674-1W/Y	1.063	13.7	2.9	3	7/15	2 dark	0%	3%
Sierra Gold	1.056	12.6	2.6					0%
ATX06354-1W/Y	1.043	10.2	2.5	3	3/38	20 dark, 1 fresh ZC	10%	0%
ATX05188-1Y/Y	1.044	10.3	2.0	3	0/20	20 dark	0%	0%
ATX00289-6Y/Y	1.047	10.9	2.6					0%

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

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

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

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

Dalhart  
Table 12

Inventory weight of 4 entries to be Advanced from the 2009 White  
Skin Yellow Flesh Selection Trial grown near Dalhart, Texas-2010.

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Variety or Selection	Trial	Inventory Weight
ATTX06274-2W	09SEL	15
COTX07382-1W/Y	09SEL	6
COTX07382-2W/Y	09SEL	14
NDTX081451CB-1Y/Y	09SEL	6

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Dalhart  
Table 13a. Total yield, total yield of U.S. No.1, under 4" top and culls/No.2 potatoes and general rating of 11 entries in the Texas Advanced Small Potato Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Total Yield Cwt/A	Culls/No.2			Culls/ No.2	General Rating <sup>1</sup> Grading
		Less than 2 inch	2-2.5 inch	Greater than 2.5 inch		
ATX05202-3W/Y	192.1	67.4	50.1	64.3	10.3	4.0
NDTX059886-1Y/Y	151.4	45.2	66.9	31.4	8.0	3.5
ATX03546-1W/Y-P	133.1	43.9	62.1	23.5	3.6	3.0
ATTX05175-1R/Y	119.6	58.8	41.2	11.5	8.1	3.6
COTX04050-1P/P	106.0	43.6	44.7	11.2	6.5	3.3
ATTX98444-16R/Y	96.8	39.8	41.7	11.5	3.9	3.3
ATX02263-1R/Y	93.8	23.4	54.7	15.1	0.6	3.5
ATX03546-1W/Y	85.7	24.4	35.6	19.3	6.4	3.0
ATX9132-2Y	0.0	0.0	0.0	0.0	0.0	0.0
COTX04178-1Y/Y	0.0	0.0	0.0	0.0	0.0	0.0
COTX05037-4Y/Y	0.0	0.0	0.0	0.0	0.0	0.0
Average	89.0	31.5	36.1	17.1	4.3	2.5
L.S.D. (.05)	27.4	18.1	15.6	15.8		0.1

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

Dalhart  
Table 13b.

Percent by weight of U.S. No. 1, under 4<sup>1/2</sup> lbs and culls/No.2 potatoes, specific gravity, tuber type and skin type of 11 entries in the Texas Advanced Small Potato Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Percent By Weight			Culls/ No. 2	Specific Gravity	% Solids	Tuber Type	Skin Type
	Less than 2 inch	2-2.5 inch	Greater than 2.5 inch					
ATX05202-3W/Y	35.0	25.9	33.9	5.2	1.055	12.3	0.0	0.0
NDTX059886-1Y/Y	30.4	43.3	20.9	5.4	1.051	11.7	0.0	0.0
ATX03546-1W/Y-P	32.1	46.4	18.8	2.7	1.036	8.9	0.0	0.0
ATTX05175-1R/Y	49.0	36.1	8.8	6.1	1.052	11.8	0.0	0.0
COTX04050-1P/P	42.1	42.1	10.1	5.7	1.054	12.1	0.0	0.0
ATTX98444-16R/Y	43.1	41.0	12.2	3.7	1.066	14.2	0.0	0.0
ATX02263-1R/Y	24.9	59.2	15.3	0.7	1.054	12.2	0.0	0.0
ATX03546-1W/Y	28.9	42.3	21.5	7.2	1.037	9.1	0.0	0.0
ATX9132-2Y								
COTX04178-1Y/Y								
COTX05037-4Y/Y								
Average	35.7	42.0	17.7	4.6	1.051	11.5		
L.S.D. (.05)								

Dalhart  
Table 13c.

Average number of tubers per plant, average tuber weight, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 11 entries in the Texas Advanced Small Potato Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
ATX05202-3W/Y	4.8	2.6	84	100	2.0	4.0	4.6	4.1	6
NDTX059886-1Y/Y	4.2	2.3	84	100	1.5	5.0	4.8	4.8	4
ATX03546-1W/Y-P	4.7	1.9	74	100	2.0	3.9	4.1	4.0	19
ATTX05175-1R/Y	3.9	1.9	78	100	1.5	4.5	4.5	4.7	4
COTX04050-1P/P	4.1	1.8	86	93	1.5	4.0	4.6	4.2	5
ATTX98444-16R/Y	4.6	1.6	83	88	2.3	3.3	3.1	3.9	35
ATX02263-1R/Y	2.9	2.3	78	98	1.5	4.0	3.4	4.2	49
ATX03546-1W/Y	2.9	2.1	74	91	1.9	3.9	3.5	4.1	31
ATX9132-2Y									
COTX04178-1Y/Y									
COTX05037-4Y/Y									
Average	4.0	2.1	80	96	1.8	4.1	4.1	4.2	19
L.S.D. (.05)	ns	0.6	ns	ns	0.5	0.4	0.7	0.4	21

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

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

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

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



Dalhart  
Table 13d. Flesh color, tuber shape, degree of russetting, 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 Texas Advanced Small Potato Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	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
ATX05202-3W/Y	3.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059886-1Y/Y	2.5	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX03546-1W/Y-P	2.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX05175-1R/Y	3.5	1.5	1.0	3.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04050-1P/P	4.5	1.5	1.0	4.5	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98444-16R/Y	2.5	2.5	1.0	4.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX02263-1R/Y	2.5	2.0	1.0	4.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX03546-1W/Y	2.0	1.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX9132-2Y														
COTX04178-1Y/Y														
COTX05037-4Y/Y														
Average	2.8	1.7	1.0	4.3	2.3	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)	0.1	0.1	ns	0.1	0.1	ns	ns	ns	ns	ns	ns	ns	ns	ns

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

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

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

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

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

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

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

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

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

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

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

Dalhart  
Table 13e. Notes and general rating for all reps of 11 entries in the Texas Advanced Small Potato Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
ATX05202-3W/Y	send to Mel, nice, BOT	4, 4, 4, 4
NDTX059886-1Y/Y		3.5, 3.5, 3.5, 3.5
ATX03546-1W/Y-P	no purple streak in flesh, poor shape	3, 3, 3, 3
ATTX05175-1R/Y	deep eyes, nice flesh, smaller tubers have nice shape	3.6, 3.6, 3.6, 3.6
COTX04050-1P/P	silver scurf, variable flesh color	3.3, 3.3, 3.3, 3.3
ATTX98444-16R/Y	poor shape	3.3, 3.3, 3.3, 3.3
ATX02263-1R/Y	light set, larger tubers are smooth	3.5, 3.5, 3.5, 3.5
ATX03546-1W/Y	drop, poor shape	3, 3, 3, 3
ATX9132-2Y	Drop	
COTX04178-1Y/Y	Drop	
COTX05037-4Y/Y	Drop	

Dalhart  
Table 13f.

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 11 entries in the Texas Advanced Small Potato Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Specific Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
ATX05202-3W/Y	1.055	12.3	4.0	2	15/57	7 Dark, 1 GH	11%	5%
NDTX059886-1Y/Y	1.051	11.7	3.5					
ATX03546-1W/Y-P	1.036	8.9	3.0					
ATTX05175-1R/Y	1.052	11.8	3.6					
COTX04050-1P/P	1.054	12.1	3.3					
ATTX98444-16R/Y	1.066	14.2	3.3					
ATX02263-1R/Y	1.054	12.2	3.5					
ATX03546-1W/Y	1.037	9.1	3.0					
ATX9132-2Y								
COTX04178-1Y/Y								
COTX05037-4Y/Y								

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 14

Inventory weight of 4 entries to be Advanced from the 2009 Small  
Potato Selection Trial grown near Dalhart, Texas-2010.

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Variety or Selection	Trial	Inventory Weight
ATX06264-4R/Y	09SEL	1
ATX07305-1Y/Y	09SEL	18
ATX07365-1W	09SEL	1
NDTX071258B-1R	09SEL	3

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Dalhart Table 15a. 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 Fingerling Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 4 in.	Under 2 in.	Culls/ No.2	General Rating <sup>1</sup> Grading
		Total Yield	2 in.	3 in.	3-4 in.				
COTX03187-1W	117.6	92.9	7.6	44.4	40.9	17.9	0.9	6.0	4.0
PTTX05PG07-1W	69.3	65.8	6.1	39.5	20.2	0.0	0.2	3.3	4.2
Purple Peruvian	33.7	30.8	9.0	21.5	0.3	0.0	2.9	0.1	3.8
Banana	30.9	24.4	1.6	17.7	5.1	0.9	1.4	4.2	3.0
ATTX02247-1R	22.9	22.4	1.7	20.6	0.0	0.0	0.1	0.4	3.5
Average	54.9	47.3	5.2	28.7	13.3	3.7	1.1	2.8	3.7
L.S.D. (.05)	21.1	16.3	4.4	17.6	14.5	9.8	1.4	3.3	0.1

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

Dalhart  
Table 15b.

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 Fingerling Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	2 in.	3 in.	3-4 in.	Over 4 in.	Under 2 in.	Culls/ No. 2				
COTX03187-1W	79.8	7.0	38.0	34.8	14.2	0.9	5.1	1.079	16.5	Long	White
PTTX05PG07-1W	94.5	8.8	57.3	28.4	0.0	0.4	5.2	1.065	14.1	Long	White
Purple Peruvian	90.1	24.4	65.2	0.6	0.0	9.6	0.3	1.059	13.1	Long	Purple
Banana	81.0	5.0	58.4	17.6	2.3	4.1	12.5	1.066	14.3	Long	White
ATTX02247-1R	97.4	8.6	88.8	0.0	0.0	0.4	2.2	1.037	9.1	Long	Red
Average	88.6	10.7	61.5	16.3	3.3	3.1	5.0	1.061	13.4		
L.S.D. (.05)	12.7	7.3	21.6	12.1	6.9	4.3	8.1	0.008	1.5		

Dalhart  
Table 15c. Average number of tubers per plant, average tuber weight, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 5 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
COTX03187-1W	3.8	2.1	95	100	1.8	4.5	4.5	4.3	9
PTTX05PG07-1W	3.1	1.5	86	100	2.6	3.6	3.0	3.8	43
Purple Peruvian	3.9	0.6	98	100	1.5	4.8	5.0	4.9	0
Banana	1.8	1.1	91	98	1.5	4.6	5.0	4.6	0
ATTX02247-1R	1.3	1.2	85	96	1.5	4.6	5.0	4.6	0
Average	2.8	1.3	91	99	1.8	4.4	4.5	4.4	10
L.S.D. (.05)	0.8	0.3	ns	2	0.3	0.3	0.3	0.5	15

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

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

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

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

Dalhart  
Table 15d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 5 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	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
COTX03187-1W	1.0	4.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
PTTX05PG07-1W	1.0	4.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Purple Peruvian	3.8	4.0	1.0	2.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Banana	2.5	4.0	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX02247-1R	1.0	4.0	1.0	4.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	1.9	4.0	1.0	4.0	2.2	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)	0.1	ns	ns	0.1	0.1	ns	ns	ns	ns	ns	ns	ns	ns	ns

<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 15e. Notes and general rating for all reps of 5 entries in the Texas Advanced  
Fingerling Selection Trial grown near Dalhart, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
COTX03187-1W	smooth, nice	4, 4, 4, 4
PTTX05PG07-1W	more small tubers	4.2, 4.2, 4.2, 4.2
Purple Peruvian	deep eyes	3.8, 3.8, 3.8, 3.8
Banana	rough	3, 3, 3, 3
ATTX02247-1R	some pointed, low yield	3.5, 3.5, 3.5, 3.5

Dalhart  
Table 16

Inventory weight of 4 entries to be Advanced from the 2009  
Fingerling Selection Trial grown near Dalhart, Texas-2010.

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Variety or Selection	Trial	Inventory Weight
COTX07168-1Ru	09SEL	7
COTX07172-1W	09SEL	4
TX08378-1R/R	09SEL	2
TX08378-3R	09SEL	5

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Dalhart  
Table 17a.

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 Yukon Gold Strain Trial grown near Dalhart, Texas-2010.

Variety or Selection	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				
TXYG098	365.0	268.0	59.2	158.8	49.9	29.6	45.9	21.5	3.9
TXYG055	342.7	309.0	87.4	106.6	115.0	0.0	27.0	6.7	3.6
TXYG057	325.8	284.9	52.6	155.7	76.7	0.0	32.8	8.1	3.9
TXYG079	301.7	257.9	56.0	86.2	115.6	18.6	16.3	9.0	3.9
Yukon Gold	287.8	234.4	39.2	41.5	153.6	14.5	15.7	23.2	3.8
Sierra Gold	140.0	122.5	19.5	55.5	47.6	0.0	10.7	6.7	2.6
Average	324.6	270.8	58.9	109.8	102.2	12.5	27.5	13.7	3.8
L.S.D. (.05)	ns	39.4	ns	71.3	ns	ns	ns	ns	0.1

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

Dalhart  
Table 17b.

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 Yukon Gold Strain Trial grown near Dalhart, Texas-2010.

Variety or Selection	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				
TXYG098	75.3	16.2	42.9	16.2	7.0	12.2	5.5	1.060	13.3	Oblong	White
TXYG055	90.2	25.6	31.3	33.2	0.0	7.9	1.9	1.062	13.6	Oblong	White
TXYG057	87.9	15.9	47.5	24.4	0.0	9.7	2.4	1.058	12.9	Oblong	White
TXYG079	85.7	18.3	27.8	39.6	6.2	5.2	2.9	1.064	13.9	Oblong	White
Yukon Gold	81.8	12.8	18.1	50.8	4.3	5.2	8.6	1.061	13.5	Oblong	White
Sierra Gold	86.9	13.0	35.3	38.6	0.0	7.1	6.1	1.056	12.6	Oblong	Russet
Average	84.2	17.8	33.5	32.9	3.5	8.0	4.3	1.061	13.4		
L.S.D. (.05)	ns	ns	ns	ns	5.6	ns	4.4	ns	ns		

Dalhart  
Table 17c. Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 5 entries in the Yukon Gold Strain Trial grown near Dalhart, Texas-2010.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>	
TXYG098	3.8	6.5	75	100	1.5	4.2	3.1	4.4	40
TXYG055	3.9	5.9	73	100	1.5	4.2	2.7	3.9	55
TXYG057	3.6	6.1	79	100	1.5	3.9	2.9	3.7	46
TXYG079	3.1	6.8	59	100	1.5	4.3	3.2	4.1	31
Yukon Gold	2.8	7.0	53	95	1.5	3.7	3.3	3.7	29
Sierra Gold	4.5	4.5	28	63	2.0	3.9	2.8	3.8	60
Average	3.4	6.5	68	99	1.5	4.0	3.0	3.9	40
L.S.D. (.05)	ns	ns	ns	ns	ns	ns	ns	0.5	ns

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

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

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

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

Dalhart  
Table 17d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 5 entries in the Yukon Gold Strain Trial grown near Dalhart, Texas-2010.

Variety or Selection	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
TXYG098	3.5	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	3	0	0
TXYG055	3.5	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	3
TXYG057	3.5	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
TXYG079	3.5	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
Yukon Gold	3.0	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
Sierra Gold	2.5	3.0	3.0	4.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	3
Average	3.4	3.5	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	3	1	0	1
L.S.D. (.05)	0.2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns

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

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

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

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

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

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

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

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

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

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

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

Dalhart  
Table 17e.

Notes and general rating for all reps of 5 entries in the Yukon Gold Strain Trial grown near Dalhart, Texas-2010.

Variety or Selection	Notes Grading	General Rating Grading
TXYG098	oversized, yield+, BOT-	4, 4, 3.8, 3.8
TXYG055	smaller than other strains	3.6, 3.8, 3.5, 3.6
TXYG057	lighter yield	3.8, 3.9, 3.9, 3.8
TXYG079	larger tubers, BOT-	3.9, 3.9, 3.8, 3.8
Yukon Gold	oversized, smooth, ZC+	3.8, 3.8, 3.8, 3.7
Sierra Gold	bad rep, rough, pointed	3.9, 2.5, 2, 2

Dalhart  
Table 17f.

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 5 entries in the Yukon Gold Strain Trial grown near Dalhart, Texas-2010.

Variety or Selection	Gravity	% Solids	Tuber General Rating <sup>1</sup>	Chip Color <sup>2</sup>	Good/Bad Ratio	Notes <sup>3</sup>	Percent Zebra Defect	Percent Zebra Defect at Grading
TXYG098	1.060	13.3	3.9					13%
TXYG055	1.062	13.6	3.6					0%
TXYG057	1.058	12.9	3.9					0%
TXYG079	1.064	13.9	3.9					5%
Yukon Gold	1.061	13.5	3.8					18%
Sierra Gold	1.056	12.6	2.6					0%

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

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

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

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



Dalhart Breeder's Rating, Total yield, % yield of Atlantic, Specific Gravity, Chip Color, Good/Bad Chip, and Chip Notes of 245 entries in the National Breeder's Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	Breeder Rating 1-3=Best	Total Yield Cwt/A	% Yield of Atlantic	Specific Gravity	% Solids	Chip Color	Good/Bad Chip	Chip Notes	% Zebra Chip
AF4147-1	3	777.6	124%	1.068	15%	1	7/13	12 vas; 1 dark	0%
FL1867	3	773.3	123%	1.078	16%	1	16/4	BOT; 4 vas	0%
CO03273-7W	3	732.5	117%	1.062	13%	1	13/5	2 vas; 3 bruise	0%
NDMN07-B322BG1	3	653.8	104%	1.069	15%	1	18/3	1 bruise; 2 vas; BOT	0%
NYG20-12	3	652.2	104%	1.062	14%	1	19/1	1 bruise; BOT	0%
B-258	3	630.6	101%	1.063	14%	1	8/10	10 vas	0%
1064	3	610.7	97%	1.065	14%	1	14/4	4 vas; BOT-	0%
NYG20-11	3	594.2	95%	1.071	15%	1	19/1	1 vas; BOT	0%
MSR161-2	3	580.8	93%	1.072	15%	1	19/1	1 GH; BOT-	0%
AC00206-2W	3	552.6	88%	1.064	14%	1	19/2	1 vas; 2 bruise; BOT-	0%
NYD40-50	3	550.9	88%	1.064	14%	1	13/8	8 bruise	0%
1029	3	549.8	88%	1.066	14%	1	17/4	4 vas; BOT	0%
B2721-73	3	529.4	84%	1.079	17%	1	14/6	4 bruise; 2 vas; nice	0%
AF4363-5	3	519.4	83%	1.063	14%	1	18/2	2 vas; BOT	0%
MSQ130-4	3	495.2	79%	1.069	15%	1	18/1	1 GH; BOT	0%
NYF47-3	3	482.9	77%	1.063	14%	1	20/0	BOT	0%
WIMN 04855-02	3	480.7	77%	1.065	14%	1	20/0	BOT	0%
B2721-47	3	470.3	75%	1.072	15%	1	12/7	7 vas	0%
NDMN 04910-01	3	464.1	74%	1.067	14%	1	21/0	BOT	0%
FL1922	3	445.4	71%	1.063	14%	1	20/0	BOT	0%
NDMN07-B318WG1	3	443.7	71%	1.055	12%	1	20/0	BOT	0%
NYG20-13	3	443.1	71%	1.069	15%	1	18/0	BOT	0%
NYG20-33	3	419.7	67%	1.062	14%	1	16/3	3 bruise; BOT-	0%
NDMN07-GF059WG1	3	419.2	67%	1.067	14%	1	18/1	1 bruise; BOT-	0%
A00206-1C	3	412.9	66%	1.067	14%	1	15/4	4 bruise	0%
ND039209C-3	3	403.7	64%	1.076	16%	1	17/3	3 vas; BOT-	0%
W5015-19	3	398.3	63%	1.055	12%	1	12/8	7 vas; 1 bruise; BOT	0%
NDTX059997-2W	3	381.7	61%	1.061	13%	1	17/5	5 bruise; BOT-	0%
NDA060396AB-1C	3	381.7	60%	1.059	13%	2	10/10	4 bruise; 4 vas; 2 HH	0%

Dalhart Breeder's Rating, Total yield, % yield of Atlantic, Specific Gravity, Chip Color, Good/Bad Chip, and Chip Notes of 245 entries in the National Breeder's Chip Trial grown near  
 Table 18a. Dalhart, Texas-2010.

Variety or Selection	Breeder Rating 1-3=Best	Total Yield Cwt/A	% Yield of Atlantic	Specific Gravity	% Solids	Chip Color	Good/Bad Chip	Chip Notes	% Zebra Chip
AF4363-2	3	366.7	58%	1.069	15%	1	18/2	1 bruise; 1 vas; BOT-	0%
NYG20-58	3	360.1	57%	1.067	14%	1	17/2	2 bruise; BOT	0%
W2978-3	3	350.1	56%	2.020	184%	1	21/0	BOT+	0%
NDTX059997-7W	3	346.3	55%	1.048	11%	1	16/4	2 bruise; 2 vas; BOT-	0%
W6483-4	3	344.2	55%	1.068	15%	1	18/0	BOT	0%
NDMN 03324-4	3	336.9	54%	1.072	15%	1	16/4	4 vas; BOT	0%
NYG20-44	3	325.4	52%	1.077	16%	1	18/2	1 bruise; 1 vas; BOT	0%
TX05249-5W	3	304.5	49%	1.048	11%	1	16/4	4 vas; BOT	0%
AF4149-1	3	303.8	48%	1.060	13%	1	15/4	1 bruise; 3 vas; nice	0%
NDTX059997-6W	3	262.2	42%	1.062	14%	1	20/0	BOT	0%
MegaChip	3	203.8	32%	1.069	15%	1	17/3	1 bruise; 2 vas; BOT-	0%
NDTX059828-2W	2	154.3	25%	1.052	12%	2	17/4	1 bruise; 1 vas; 1 GH; 1 HH	0%
MSS026-2	2	718.5	115%	1.071	15%	2	9/11	11 vas; nice-	0%
CO03243-3W	2	683.7	109%	1.059	13%	2	12/7	3 bruise; 4 vas	0%
NYG86-1	2	642.2	102%	1.067	15%	2	1/9	6 bruise; 3 vas	0%
B-94	2	628.9	100%	1.064	14%	1	6/14	4 bruise; 3 MB; 5 vas; 2 dark	0%
Atlantic	2	627.3	100%	1.077	16%	2	9/10	3 bruise, 5 MB, 2 vas	0%
A-23	2	619.5	99%	1.067	14%	1	9/11	6 bruise; 5 vas	0%
CO02024-9W	2	594.1	95%	1.068	15%	2	9/11	11 vas	0%
FL1833	2	586.4	93%	1.062	14%	2	14/7	5 vas; 2 bruise	0%
NYG20-5	2	584.1	93%	1.063	14%	1	14/5	5 vas	0%
AF4139-1	2	574.7	92%	1.058	13%	1	6/13	13 vas	0%
AC03452-2W	2	564.2	90%	1.053	12%	1	12/8	8 vas	0%
AF4254-2	2	559.2	89%	1.069	15%	1	6/14	3 bruise; 11 vas	0%
B2721-64	2	559.1	89%	1.081	17%	1	15/6	3 bruise; 3 vas	0%
COMN07-W203BG1	2	553.9	88%	1.060	13%	1	9/11	6 bruise; 5 vas	0%
CO00270-7W	2	538.0	86%	1.057	13%	1	7/10	4 bruise; 6 vas	0%
NYG20-30	2	526.0	84%	1.066	14%	2	17/3	1 bruise; 2 vas; BOT	0%
W8441-2	2	524.4	84%	1.059	13%	1	13/6	5 vas; 1 bruise	0%

Dalhart Breeder's Rating, Total yield, % yield of Atlantic, Specific Gravity, Chip Color, Good/Bad Chip, and Chip Notes of 245 entries in the National Breeder's Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	Breeder Rating 1-3=Best	Total Yield Cwt/A	% Yield of Atlantic	Specific Gravity	% Solids	Chip Color	Good/Bad Chip	Chip Notes	% Zebra Chip
NDMN07-B312BG1	2	516.1	82%	1.054	12%	1	14/6		0%
NDMN07-GF056BG1	2	514.4	82%	1.062	14%	1	11/9	9 vas	0%
NDMN07-W159BG1	2	506.1	81%	1.067	15%	1	18/2	2 bruise	0%
AF4240-6	2	502.1	80%	1.059	13%	3	2/18	12 MB; 4 vas; 1 bruise	5%
MSL292-A	2	501.1	80%	1.069	15%	1	15/4	2 GH; 2 vas; nice	0%
B2721-63	2	496.2	79%	1.088	18%	1	13/6	3 bruise; 3 vas	0%
MSQ035-3	2	492.9	79%	1.065	14%	2	11/9	9 vas	0%
B2721-18	2	474.6	76%	1.071	15%	1	14/5		26%
W4980-1	2	472.9	75%	1.064	14%	1	13/7	4 bruise; 3 vas	0%
MSK409-1	2	471.3	75%	1.068	15%	1	7/13	13 vas	0%
FL2048	2	468.5	75%	1.065	14%	1	14/7	4 vas; 3 bruise	0%
Beacon Chipper	2	464.6	74%	1.055	12%	1	10/11	10 vas; 1 GH	0%
NDMN07-B326BG1	2	459.7	73%	1.067	15%	2	12/8	2 bruise; 6 vas	0%
W2717-5	2	459.2	73%	1.066	14%	1	14/6	6 bruise	0%
MSQ086-3	2	453.0	72%	1.059	13%	1	14/6	3 vas; 2 bruise	5%
B-290	2	445.4	71%	1.072	15%	1	9/10	5 bruise; 5 vas	0%
MSM246-B	2	438.1	70%	1.060	13%	1	22/0	BOT	0%
B2721-101	2	438.1	70%	1.072	15%	1	8/12	12 vas/dark	0%
A-32	2	438.1	70%	1.066	14%	1	11/9	8 vas; 1 GH	0%
NYE50-8	2	434.8	69%	1.064	14%	2	17/2	1 vas; 1 bruise	0%
MSR169-8Y	2	408.2	65%	1.066	14%	2	8/12	12 vas	0%
NYG20-63	2	408.2	65%	1.072	15%	1	17/3	2 bruise; 1 vas	0%
NDMN07-B309BG1	2	406.6	65%	1.074	16%	1	13/4	4 bruise	0%
C-27	2	406.1	65%	1.068	15%	1	17/2	2 vas	0%
ND7799c-1	2	404.9	65%	1.067	15%	1	12/8	8 vas	0%
AC01151-5W	2	403.2	64%	1.058	13%	1	13/9	6 vas; 2 bruise; 1 dark	0%
B-3	2	399.9	64%	1.076	16%	1	17/5	5 vas	0%
MN 02 588	2	393.3	63%	1.061	13%	1	15/6	3 bruise; 2 dark	0%
W8615-11	2	380.0	61%	1.064	14%	1	8/12	12 vas	0%

Dalhart Breeder's Rating, Total yield, % yield of Atlantic, Specific Gravity, Chip Color, Good/Bad Chip, and Chip Notes of 245 entries in the National Breeder's Chip Trial grown near  
 Table 18a. Dalhart, Texas-2010.

Variety or Selection	Breeder Rating 1-3=Best	Total Yield Cwt/A	% Yield of Atlantic	Specific Gravity	% Solids	Chip Color	Good/Bad Chip	Chip Notes	% Zebra Chip
1070	2	375.7	60%	1.066	14%	2	20/0		0%
FL2053	2	373.2	59%	1.070	15%	1	13/7	7 vas; nice	0%
1083	2	364.7	58%	1.064	14%	1	14/6	2 bruise; 1 vas; 1 dark; nice	0%
W8597-2	2	363.4	58%	1.064	14%	1	13/7	6 vas	5%
NYG20-56	2	353.5	56%	1.068	15%	1	8/12	1 bruise; 11 vas	0%
B2721-141	2	351.8	56%	1.074	16%	1	12/9	6 vas; 1 bruise; 2 GH	0%
B-163	2	350.8	56%	1.073	16%	1	17/5	5 vas	0%
W6803-3	2	342.2	55%	1.051	12%	1	15/5	2 bruise; 3 vas	0%
AF4307-1	2	341.8	54%	1.071	15%	1	14/4	4 bruise	0%
W8603-1	2	340.2	54%	1.068	15%	1	13/7	4 vas	15%
AOTX95309-3W	2	336.9	54%	1.068	15%	1	13/7	6 vas; 1 bruise	0%
C-172	2	335.2	53%	1.084	17%	1	15/6	6 vas	0%
A00466-1LBC	2	329.4	53%	1.062	14%	1	2/18	18 vas; BOT-	0%
MSN170-A	2	325.2	52%	1.062	14%	2	16/5	3 vas; 2 bruise	0%
ND8559-20	2	313.6	50%	1.073	16%	1	14/5	3 bruise; 2 vas	0%
AOTX95295-1W	2	310.3	49%	1.064	14%	1	12/8	8 vas; BOT-	0%
NYG20-32	2	308.2	49%	1.056	12%	1	17/3	1 bruise; 2 vas; nice	0%
C-99	2	305.3	49%	1.067	15%	1	13/7	6 vas	5%
NYG20-41	2	302.8	48%	1.073	16%	1	15/5	5 vas	0%
ND7192-1	2	300.4	48%	1.074	16%	1	18/3	1 vas; 2 GH	0%
COTX02377-1W	2	298.7	48%	1.060	13%	1	18/3	2 vas; 1 bruise	0%
NYG20-55	2	297.0	47%	1.063	14%	1	22/2	2 vas; nice	0%
ND8456-1	2	292.1	47%	1.060	13%	1	17/3	3 vas	0%
AF4148-1	2	287.2	46%	1.064	14%	2	13/7	3 bruise; 4 vas	0%
1011	2	287.1	46%	1.055	12%	1	12/8	6 vas; 2 bruise	0%
TX05249-10W	2	279.1	44%	1.050	11%	1	12/6	3 bruise; 3 vas	0%
NDTX059632-1W	2	278.8	44%	1.064	14%	1	10/10	1 HH; 9 vas	0%
W2133-1	2	275.5	44%	1.073	15%	1	18/2	2 bruise	0%
NDMN07-B302BG1	2	273.8	44%	1.078	16%	1	14/6	2 vas	20%

Dalhart Breeder's Rating, Total yield, % yield of Atlantic, Specific Gravity, Chip Color, Good/Bad Chip, and Chip Notes of 245 entries in the National Breeder's Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	Breeder Rating 1-3=Best	Total Yield Cwt/A	% Yield of Atlantic	Specific Gravity	% Solids	Chip Color	Good/Bad Chip	Chip Notes	% Zebra Chip
W8587-4	2	267.2	43%	1.057	13%	1	12/9	7 vas	10%
TX03196-1W	2	252.2	40%	1.058	13%	1	19/2	2 bruise	0%
C-57	2	252.2	40%	1.078	16%	1	6/14	11 vas; 2 bruise; 1 dark	0%
W6822-3	2	250.6	40%	1.053	12%	1	15/4	4 vas	0%
COTX03270-1W	2	234.5	37%	1.061	13%	1	19/1	1 vas; BOT-	0%
ND8304-2	2	234.0	37%	1.061	13%	1	13/7	5 vas; 2 bruise	0%
ND8331Cb-2	2	179.2	29%	1.072	15%	1	20/1	1 bruise; BOT	0%
ATX85404-8W	2	169.3	27%	1.063	14%	1	12/8	1 dark; 3 bruise; 4 vas	0%
MSQ089-1	1	635.6	101%	1.058	13%	3	9/11	11 vas	0%
AF4157-6	1	614.3	98%	1.062	14%	3	8/10	7 vas; 3 bruise	0%
MSR148-4	1	602.4	96%	1.061	13%	3	4/16	5 bruise; 6 vas; 5 dark	0%
CO02033-1W	1	567.5	90%	1.066	14%	2	9/11	3 bruise; 3 vas	25%
MSR021-2	1	560.9	89%	1.060	13%	2	11/9	8 vas; 1 bruise	0%
AF4252-1	1	550.9	88%	1.062	14%	3	9/11	8 bruise; 3 vas	0%
AF4240-3	1	542.6	87%	1.060	13%	3	2/18	11 bruise; 6 vas	5%
CO02321-4W	1	539.1	86%	1.067	14%	2	10/10	3 bruise; 5 vas	10%
B-192	1	535.5	85%	1.081	17%	3	9/11	11 vas/dark	0%
B-191	1	527.7	84%	1.071	15%	3	10/10	10 vas	0%
B-237	1	527.7	84%	1.070	15%	2	8/12	12 vas	0%
B2721-40	1	519.9	83%	1.076	16%	2	6/13	13 vas	0%
MSR128-4Y	1	519.4	83%	1.057	13%	2	9/10	2 bruise; 8 vas	0%
A-74	1	517.7	83%	1.065	14%	2	2/16	2 GH; 14 vas/dark	0%
B-212	1	516.2	82%	1.065	14%	3	5/15	13 vas; 1 bruise	5%
B2721-96	1	500.6	80%	1.071	15%	3	8/11	2 bruise; 9 vas/dark	0%
B2721-22	1	496.0	79%	1.082	17%	2	3/18	17 MB; 1 vas	0%
B-286	1	495.2	79%	1.057	13%	2	10/10	10 vas	0%
B-282	1	494.8	79%	1.050	11%	2	2/17	1 HH; 16 vas	0%
MSR036-5	1	492.9	79%	1.070	15%	3	7/12	10 bruise; 2 vas	0%
B2721-15	1	487.9	78%	1.077	16%	2	9/10	6 bruise; 4 vas	0%

Dalhart Breeder's Rating, Total yield, % yield of Atlantic, Specific Gravity, Chip Color, Good/Bad Chip, and Chip Notes of 245 entries in the National Breeder's Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	Breeder Rating 1-3=Best	Total Yield Cwt/A	% Yield of Atlantic	Specific Gravity	% Solids	Chip Color	Good/Bad Chip	Chip Notes	% Zebra Chip
NYG20-53	1	482.9	77%	1.055	12%	2	7/12	6 bruise; 6 vas	0%
ND060686C-4	1	473.9	76%	1.067	14%	2	10/10	7 bruise; 1 vas	0%
W8586-8	1	469.6	75%	1.055	12%	3	1/19	17 vas	10%
NYG20-31	1	463.0	74%	1.061	13%	2	9/11	11 vas	0%
MSR089-9Y	1	456.3	73%	1.067	14%	3	8/12	6 vas	30%
B2721-42	1	453.7	72%	1.068	15%	3	6/12	12 vas	0%
B2721-13	1	453.7	72%	1.067	14%	2	11/9	3 bruise; 6 vas	0%
ND049219-5	1	451.4	72%	1.067	14%	3	3/17	10 dark; 3 bruise; 3 vas	5%
AF4369-2	1	449.7	72%	1.066	14%	3	12/8	3 bruise; 5 vas	0%
NYE106-4	1	446.7	71%	1.065	14%	2	9/11	11 vas	0%
A03913-101LBY	1	444.7	71%	1.070	15%	3	10/10	4 bruise; 5 vas	5%
Snowden	1	443.7	71%	1.058	13%	2	8/11	5 bruise; 6 vas	0%
CO00188-4W	1	440.2	70%	1.067	14%	2	14/6	4 bruise; 2 vas	0%
B2721-159	1	439.7	70%	1.081	17%	2	6/12	9 vas; 1 bruise	11%
MSR058-1	1	438.1	70%	1.065	14%	2	16/13	13 vas	0%
MSS927-1	1	436.4	70%	1.062	14%	3	6/15	15 vas/dark	0%
1091	1	436.4	70%	1.059	13%	2	8/11	10 vas; 1 bruise	0%
1159	1	435.1	69%	1.063	14%	3	0/20	17 vas; 3 dark	0%
MSP459-5	1	434.8	69%	1.069	15%	2	16/5	2 bruise; 3 vas	0%
AF4240-5	1	429.6	68%	1.056	13%	3	7/13	9 vas; 4 bruise	0%
W8539-2	1	427.1	68%	1.062	14%	3	13/7	3 bruise; 4 vas	0%
B-173	1	426.3	68%	1.067	15%	3	7/13	4 bruise; 9 vas	0%
NDMN 04911-01	1	423.2	67%	1.062	14%	3	3/15	13 dark; 2 BC	0%
NYD40-35	1	420.2	67%	1.077	16%	2	9/7	4 bruise; 2 vas; 1 HH	0%
ND060618CB-4	1	420.0	67%	1.054	12%	3	4/16	11 vas; 2 bruise; 3 dark	0%
B2721-78	1	409.9	65%	1.080	17%	2	14/6	6 vas	0%
B-257	1	404.1	64%	1.054	12%	2	11/9	1 HH; 6 bruise; 1 vas	5%
W9075-1	1	402.7	64%	1.064	14%	2	18/2	2 bruise	0%
B2721-93	1	400.8	64%	1.072	15%	3	1/19	19 vas	0%

Dalhart Breeder's Rating, Total yield, % yield of Atlantic, Specific Gravity, Chip Color, Good/Bad Chip, and Chip Notes of 245 entries in the National Breeder's Chip Trial grown near Dalhart, Texas-2010.

Variety or Selection	Breeder Rating 1-3=Best	Total Yield Cwt/A	% Yield of Atlantic	Specific Gravity	% Solids	Chip Color	Good/Bad Chip	Chip Notes	% Zebra Chip
B-89	1	399.9	64%	1.071	15%	3	8/9	1 MB; 4 vas; 4 bruise	0%
MSS165-2Y	1	398.3	63%	1.066	14%	3	12/8	8 vas	0%
NYG89-1	1	396.8	63%	1.072	15%	2	7/12	12 vas	0%
NYG20-28	1	394.9	63%	1.058	13%	1	11/9	3 vas; 2 bruise	20%
1056	1	392.6	63%	1.063	14%	2	14/6	4 vas; 2 dark	0%
B2721-67	1	391.6	62%	1.074	16%	3	8/11	11 vas	0%
NYG20-4	1	391.6	62%	1.059	13%	2	4/6	6 vas; 2 bruise; rot++++	0%
ND060713-13	1	390.6	62%	1.068	15%	2	15/7	7 vas	0%
MSH228-6	1	390.0	62%	1.046	11%	1	3/17	17 vas	0%
B-190	1	393.3	62%	1.070	15%	2	11/9	1 GH; 6 vas; 2 bruise	0%
B-70	1	388.3	62%	1.074	16%	3	5/14	14 vas/dark	0%
1102	1	378.3	60%	1.049	11%	2	4/16	15 vas; 1 bruise	0%
ND060597AB-6	1	376.0	60%	1.058	13%	2	14/6	6 vas	0%
MSR131-2	1	373.4	60%	1.052	12%	2	5/16	3 bruise; 13 vas	0%
1055	1	371.7	59%	1.072	15%	3	7/14	12 vas; 2 bruise	0%
MSR061-1	1	370.1	59%	1.068	15%	2	14/5	1 bruise; 4 vas; nice-	0%
CO00197-3W	1	365.1	58%	1.924	167%	2	9/11	11 vas	0%
A91814-5	1	363.4	58%	1.070	15%	2	3/17	17 vas	0%
B2721-105	1	356.8	57%	1.073	15%	2	13/5	5 vas	0%
COMN07-W112BG1	1	356.8	57%	1.055	12%	3	14/6	6 dark	0%
MSR041-3	1	350.1	56%	1.064	14%	3	12/14	10 vas; 1 dark; 3 bruise	0%
AC03433-1W	1	346.8	55%	1.056	12%	2	12/7	4 bruise; 1 dark; 1 GH; 1 vas	0%
1106	1	346.8	55%	1.055	12%	2	8/12	12 vas	0%
1099	1	345.8	55%	1.061	13%	1	7/13	1 HH; 10 vas; 2 bruise	0%
B2721-123	1	343.5	55%	1.006	4%	1	15/8	8 vas	0%
NYG89-2	1	337.7	54%	1.071	15%	2	7/12	9 vas; 3 dark	0%
TX1673-1W	1	336.9	54%	1.056	12%	2	5/13	12 vas; 1 dark/ZC	0%
ND8331Cb-3	1	335.2	53%	1.060	13%	2	6/13	12 vas; 1 dark	0%
MSL007-B	1	328.6	52%	1.059	13%	1	6/14	14 vas	0%

Dalhart Breeder's Rating, Total yield, % yield of Atlantic, Specific Gravity, Chip Color, Good/Bad Chip, and Chip Notes of 245 entries in the National Breeder's Chip Trial grown near  
 Table 18a. Dalhart, Texas-2010.

Variety or Selection	Breeder Rating 1-3=Best	Total Yield Cwt/A	% Yield of Atlantic	Specific Gravity	% Solids	Chip Color	Good/Bad Chip	Chip Notes	% Zebra Chip
B2721-10	1	325.2	52%	1.076	16%	2	11/9	2 bruise; 1 HH; 6 vas	0%
MSR127-2	1	320.3	51%	1.063	14%	3	5/17	10 vas; 7 dark	0%
ND8307C-3	1	318.6	51%	1.075	16%	2	14/6	4 vas; 2 bruise	0%
NDTX059979-1W	1	308.7	49%	1.062	14%	2	12/7	7 vas	0%
B2721-1	1	307.0	49%	1.079	17%	2	16/5	2 bruise; 3 vas	0%
W7918-8	1	303.7	48%	1.056	12%	1	10/11	6 bruise; 5 vas	0%
MSP515-2	1	295.4	47%	1.063	14%	1	14/7	7 vas; nice	0%
B2721-121	1	295.4	47%	1.079	17%	2	13/7	3 bruise; 4 vas	0%
ND060753-8	1	290.4	46%	1.064	14%	2	2/18	15 vas	15%
ND060618cB-3	1	289.1	46%	1.047	11%	1	4/15	2 pre-ZC; 13 vas	0%
NYF47-5	1	278.8	44%	1.059	13%	3	12/9	8 vas; 1 bruise	0%
C-118	1	270.5	43%	1.063	14%	3	14/6	6 vas	0%
1115	1	263.8	42%	1.068	15%	3	0/21	21 vas/dark	0%
MSM037-3	1	257.2	41%	1.047	11%	3	3/18	17 vas; 1 pre-ZC	0%
NYF48-4	1	248.9	40%	1.067	14%	2	16/4	4 bruise	0%
1003	1	245.6	39%	1.057	13%	2	8/11	9 vas; 1 GH; 1 bruise	0%
W8486-6	1	243.9	39%	1.056	12%	2	11/9	8 vas; 1 GH	0%
A01143-3C	1	237.3	38%	1.064	14%	2	9/11	5 bruise; 6 vas	0%
A02515-2	1	237.3	38%	1.068	15%	2	5/15	10 vas; 5 BC	0%
NYG87-3	1	234.0	37%	1.071	15%	3	13/7	2 bruise; 2 GH; 3 vas	0%
1110	1	229.0	37%	1.063	14%	3	12/8	7 vas; 1 bruise	0%
NYF57-3	1	227.3	36%	1.057	13%	2	16/3	3 vas	0%
MN 99380-1	1	225.2	36%	1.058	13%	3	8/12	2 bruise; 7 vas; 2 GH	0%
MSP270-1	1	222.4	35%	1.052	12%	2	5/15	12 vas; 3 bruise	0%
MSP368-1	1	213.6	34%	1.062	14%	2	7/13	5 bruise; 8 vas	0%
MSQ279-1	1	207.4	33%	1.054	12%	2	12/8	8 vas	0%
B-166	1	196.8	31%	1.053	12%	2	2/18	18 vas	0%
W8615-5	1	190.0	30%	1.062	14%	2	10/13	11 vas; 2 bruise	0%
AOMN 06150-02	1	187.5	30%	1.060	13%	2	6/14	2 bruise; 4 dark, 2 vas	30%



Dalhart Breeder's Rating, Total yield, % yield of Atlantic, Specific Gravity, Chip Color, Good/Bad Chip, and Chip Notes of 245 entries in the National Breeder's Chip Trial grown near Table 18a. Dalhart, Texas-2010.

Variety or Selection	Breeder Rating 1-3=Best	Total Yield Cwt/A	% Yield of Atlantic	Specific Gravity	% Solids	Chip Color	Good/Bad Chip	Chip Notes	% Zebra Chip
A00188-3C	1	175.9	28%	1.066	14%	1	12/7	7 vas	0%
ND6620-14	1	174.9	28%	1.060	13%	3	5/15	15 vas/dark	0%
Boulder	1	172.6	28%	1.058	13%	1	12/8	8 vas	0%
W2324-1	1	159.3	25%	1.060	13%	1	12/8	4 vas; 4 dark	0%
MN 02 586	1	151.5	24%	1.063	14%	3	20/0	BOT	0%
W8010-1	1	147.7	24%	1.038	9%	1	14/5	2 bruise; 3 vas	0%
AF4252-3	1	147.5	24%	1.054	12%	2	1/18	18 vas	0%
MSQ134-5	1	146.4	23%	1.058	13%	2	11/9	7 vas; 2 bruise	0%
W8639-3	1	137.7	22%	1.064	14%	2	11/9	9 vas	0%
A05463-5C	1	137.7	22%	1.049	11%	3	0/20	20 vas	0%
MSK061-4	1	101.2	16%	1.051	12%	1	13/7	7 vas; nice	0%
A03471-7C	1	80.8	13%	1.057	13%	3	12/8	5 vas	15%
Red LaSoda	1	74.7	12%	1.048	11%	3	0/19	16 dark	16%

## Appendix A. General notes on potato varieties or selections – 2010.

A0008-1TE - Long Russet. Parentage (Blazer Russet x A95109-1). Cross was made and selected in Aberdeen. Medium-early maturity. Small vine size. White flower color.

Uses: Dual.

Strengths: parent, BOT.

Weaknesses: light net, some raised eyes.

Cutting Notes: growth cracks, nice

A00188-3C - Round White. Parentage (A91790-13W x Dakota Pearl). Cross was made and selected in Aberdeen. Medium early maturity. Medium vine size.

Uses: Chip.

Strengths:

Weaknesses: small, sticky stolon, heat sprouts, drop+, poor internals, rough, small CR=1.

Cutting Notes: small.

Chip Notes: 7 vas.

A00206-1C - Round White. Parentage (AC87340-2 x Dakota Pearl) Cross was made and selected in Aberdeen.

Uses: Chip

Strengths: BOT.

Weaknesses: early.

Chip Notes: 4 bruise.

A00286-3Y - Oblong White/Yellow. Parentage (NDA5507-3Y x A89655-5DY). Cross was made and selected in Aberdeen. Medium-late maturity. Medium large vine size. Medium red-purple flower color.

Uses: Specialty.

Strengths: red eyes.

Weaknesses: small, late, 60% heat sprouts, chain tubers.

Cutting Notes: red eyes, nice

A00324-1 - Long Russet. Parentage (A95038-1 x GemStar Russet). Cross was made and selected in Aberdeen. Medium-early maturity. Medium-large vine size. Red-purple flower color.

Uses: Dual.

Strengths:

Weaknesses: rough pointed, Rhizoctonia, sticky stolon

Cutting Notes: rough, poor shape, growth cracks

A00466-1LBC - Round White. Parentage (AO97042-19 x Dakota Pearl). Cross was made and selected in Aberdeen.

Uses: Chip.

Strengths:

Weaknesses: late, slight stem end vascular discoloration, drop

Chip Notes: 5 vas 18 vas; BOT-

A01010-1 - Oblong Russet. Parentage (A92303-7 x A96004-8). Cross was made and selected in Aberdeen. Medium maturity. Medium-large vine size. White flower color.

Uses: Dual.

Strengths:

Weaknesses: skinny, 10% bruise, drop  
Cutting Notes: small

A01143-3C - Round White. Parentage (COA95070-8 x Chipeta). Cross was made and selected in Aberdeen. Medium late maturity. Medium vine size. White flower color

Uses: Chip.

Strengths:

Weaknesses: small, late, drop feathering, small CR=1, CR=2.

Cutting Notes: small

Chip Notes: 5 bruise; 6 vas

A02515-2 - Oblong White. Parentage (EGAO9702-2 x Clearwater Russet). Cross was made and selected in Aberdeen.

Uses: Chip

Strengths:

Weaknesses: russet skin, drop

Chip Notes: 10 vas; 5 BC

A03471-7C - Round White. Parentage (Dakota Diamond x A98399-1C). Cross was made and selected in Aberdeen.

Uses: Chip

Strengths:

Weaknesses: drop

Chip Notes: 5 vas

A03913-101LBY - Oblong White. Parentage (A96895-54 x WHA99-4156-1). Cross was made and selected in Aberdeen.

Uses: Chip

Strengths: smooth, yellow flesh

Weaknesses: shape-poor shape, too long,

Chip Notes: 4 bruise; 5 vas

A05463-5C - Round White. Parentage (Alturas x PA99N2-1). Cross was made and selected in Aberdeen.

Uses: Chip

Strengths:

Weaknesses: late, drop

Chip Notes: 20 vas

A-23 - Round White. Parentage (Superior x Snowden). Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: early, deep nose, oversize, rough, drop

Chip Notes: 6 bruise; 5 vas

A-32 - Round White. Parentage (Superior x Snowden). Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: light russet skin

Chip Notes: 2 GH8 vas; 1 GH

A-74 - Long White. Parentage (Superior x Snowden). Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: shape-, oblong, Rhizoctonia, long, buff, drop

Chip Notes: 2 GH; 14 vas/dark

A91814-5 - Oblong White. Parentage (NDA2031-2 x Ivory Crisp). Cross was made and selected in Aberdeen.

Uses: Chip

Strengths:

Weaknesses: late

Chip Notes: 17 vas

A97066-42LB - Oblong Light Russet. Parentage (AWN86514-2 x A86102-6). Cross was made and selected in Aberdeen. Medium maturity. Medium large vine size. White flower color

Uses: Dual.

Strengths: blocky

Weaknesses: raised eyes, light net, small

Cutting Notes: nice shape, small

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

Uses: Dual.

Strengths:

Weaknesses: deep eyes, poor russet skin, sticky stolon, light net, drop, ugly

Cutting Notes: pear shaped

A99326-1PY - Oblong Purple/Yellow. Parentage (Agria x COA94019-5R). Cross was made and selected in Aberdeen. Medium-early maturity. Medium-small vine size. Medium purple flower color.

Uses: Fresh.

Strengths: nice flesh, BOT of Purple skin

Weaknesses: lenticels, poor skin finish sticky stem

Cutting Notes: nice shape and flesh, nice

A99331-2RY - Oblong Red-yellow eyes/Yellow Parentage (Agria x COA94019-5R). Cross was made and selected in Aberdeen. Medium maturity. Medium-large vine size. Dark red-purple flower color.

Uses: Fresh.

Strengths:

Weaknesses: very small, heat sprouts, red splash, drop

Cutting Notes: yellow eyes, pinto like

A99433-5Y - Oblong White/Yellow. Parentage (Chipeta x MSG274-3). Cross was made and selected in Aberdeen. Medium-late maturity. Medium large vine size. White flower color.

Uses: Specialty.

Strengths:

Weaknesses: late, small, yield-, stolon attachment

Cutting Notes: nice

AC00206-2W - Round White. Parentage (AC87340-2 x Dakota Pearl). Cross was made in Aberdeen and selected in Colorado.

Uses: Chip  
Strengths: nice, nice flesh  
Weaknesses: late  
Chip Notes: 1 GH1 vas; 2 bruise; BOT-

AC01151-5W - Oblong White. Parentage (COA96142-7 x NDA2031-2). Cross was made in Aberdeen and selected in Colorado. Medium maturity. Medium vine size. Purple flower color.

Uses: Chip.  
Strengths: nice shape heavy set  
Weaknesses: feathering, deep nose, small light set sticky stolon+, drop chain tubers, poor internals late  
CR=1 CR=2  
Cutting Notes: very nice  
Chip Notes: 1 GH6 vas; 2 bruise; 1 dark

AC03433-1W - Round White. Parentage (A94322-8C x COA96141-4). Cross was made in Aberdeen and selected in Colorado.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 1 GH4 bruise; 1 dark; 1 GH; 1 vas

AC03452-2W - Round White. Parentage (A98423-1C x COA96141-2C). Cross was made in Aberdeen and selected in Colorado.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 8 vas

AC99375-1RU -. Oblong Russet. Parentage (AWN86514-2 x A89384-10). Cross was made in Aberdeen, and selected in Colorado. Medium maturity. Large vine. White flower color.

Uses: Duel.  
Strengths:  
Weaknesses: rough, very small, drop++  
Cutting Notes: purple streak in flesh, nice shape

AF4139-1 - Round White. Parentage (AHX5076 x AF1953-4). Cross was made in and selected at the University of Maine.

Uses: Chip  
Strengths:  
Weaknesses: heavy set  
Chip Notes: 13 vas

AF4147-1 - Oblong White. Parentage (B0654-8 x ND860-2). Cross was made in and selected at the University of Maine.

Uses: Chip  
Strengths: heavy set, BOT  
Weaknesses: rough  
Chip Notes: 12 vas; 1 dark

AF4148-1 - Oblong White. Parentage (Liberator x W2504-9). Cross was made in and selected at the University of Maine.

Uses: Chip

Strengths:

Weaknesses: drop

Chip Notes: 1 MB3 bruise; 4 vas

AF4149-1 - Round White. Parentage (MSG227-2 x Dakota Pearl). Cross was made in and selected at the University of Maine.

Uses: Chip

Strengths: nice flesh

Weaknesses:

Chip Notes: 1 bruise; 3 vas; nice

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

Uses: Chip

Strengths: fast bulk, parent

Weaknesses: yield-Rhizoctonia

Chip Notes: 1 GH7 vas; 3 bruise

AF4240-3 - Round White. Parentage (SC9512-4 x AF290-5). Cross was made in and selected at the University of Maine.

Uses: Chip

Strengths:

Weaknesses: oversize, sticky stolon,

Chip Notes: 11 bruise; 6 vas

AF4240-5 - Round White. Parentage (SC9512-4 x AF290-5). Cross was made in and selected at the University of Maine.

Uses: Chip

Strengths:

Weaknesses: Rhizoctonia

Chip Notes: 9 vas; 4 bruise

AF4240-6 - Round White. Parentage (SC9512-4 x AF290-5). Cross was made in and selected at the University of Maine.

Uses: Chip

Strengths:

Weaknesses: Rhizoctonia, poor internals

Chip Notes: 13 MB12 MB; 4 vas; 1 bruise

AF4252-1 - Round White. Parentage (MN99352-2 x AF290-5). Cross was made in and selected at the University of Maine.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 8 bruise; 3 vas

AF4252-3 - Round White. Parentage (MN99352-2 x AF290-5). Cross was made in and selected at the University of Maine.

Uses: Chip

Strengths:

Weaknesses: late, low yield, poor internals

Chip Notes: 18 vas

AF4254-2 - Oblong White. Parentage (A8469-5 x AF290-5). Cross was made in and selected at the University of Maine.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 3 bruise; 11 vas

AF4307-1 - Oblong White. Parentage (A97070-51LB x A95162-1). Cross was made in and selected at the University of Maine.

Uses: Chip

Strengths:

Weaknesses: drop

Chip Notes: 4 bruise

AF4363-2 - Oblong White. Parentage (A91790-13 x W2309-7). Cross was made in and selected at the University of Maine.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 1 bruise; 1 vas; BOT-

AF4363-5 - Oblong White. Parentage (A91790-13 x W2309-7). Cross was made in and selected at the University of Maine.

Uses: Chip

Strengths: fast bulk

Weaknesses: poor shape, drop

Chip Notes: 2 vas; BOT

AF4369-2 - Round White. Parentage (W3145-5 x Ivory Crisp). Cross was made in and selected at the University of Maine.

Uses: Chip

Strengths:

Weaknesses: some rough

Chip Notes: 3 bruise; 5 vas

AO00057-2 - Long Russet. Parentage (A91048-3 x A93116-3BSR). Cross was made in Aberdeen, and selected in Oregon. Medium maturity. Medium vine. White flower color.

Uses: Duel.

Strengths:

Weaknesses: 10% bruise, light net

Cutting Notes: nice, blocky

AO96305-3 - Long Russet. Parentage (A91018-6 x A89152-4). Cross was made in Aberdeen, and selected in Oregon. Medium maturity. Medium vine. Red-purple flower color.

Uses: Duel.

Strengths:

Weaknesses: long skinny, feathering, light net

Cutting Notes: skinny

AOMN06150-02 - Round White. Parentage (??). Cross was made in Aberdeen, tuberling produced in Oregon and selected at the University of Minnesota.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 2 bruise; 4 dark, 2 vas

AOTX01178-1R - Oblong Red. Parentage (ND5084-3R x Winema). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths:

Weaknesses: light skin, yield+, feathering, stem attachment

Cutting Notes:

AOTX02060-1Ru - Long Russet. Parentage (A97201-4 x A93157-6LS). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths: nice, BOT

Weaknesses: skinny, drop,

Cutting Notes:

AOTX06016-1Ru - Oblong Russet. Parentage (A99031-1TE x A98104-4). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths:

Weaknesses: low yield, drop++

Cutting Notes:

AOTX06026-1Ru - Oblong Russet. Parentage (A99034-2E x AONDTX95249-1Russ). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths: blocky,

Weaknesses: poor internals, drop?

Cutting Notes: mahogany browning

AOTX06048-1Ru - Long Russet. Parentage (Blazer Russet x A00082-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths:

Weaknesses: drop+

Cutting Notes:



AOTX06077-1Ru - Long Russet. Parentage (A84118-3 X A9014-2). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths:

Weaknesses: discarded

Cutting Notes:

AOTX06116-1Ru - Long Russet. Parentage (A99134-1 x AONDTX95249-1Russ). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths: nice rep, large tubers, blocky, keep

Weaknesses: drop (bad rep?), light set

Cutting Notes:

AOTX91861-4R - Oblong Red. Parentage (Red LaSoda x ND2224-5R). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium-late maturity. Medium vine size. Red-purple flower color.

Uses: Fresh.

Strengths: smooth, nice

Weaknesses: silver scurf small, poor skin finish, stem attachment

Cutting Notes: nice

AOTX93483-1R - Oblong Red. Parentage (NDO2686-6R X AD82705-1R). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths: BOT

Weaknesses: feathering, silver scurf, large tuber are rough heat sprouts, drop

Cutting Notes: shriveled

AOTX95265-1Ru - Long Russet. Parentage (A89216-9 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Early maturity. Medium vine size. White flower color.

Uses: Fresh.

Strengths: blocky nice

Weaknesses: small, 20% bruise pointed, bad rep, drop?

Cutting Notes: very nice, blocky

AOTX95265-3Ru - Long Russet. Parentage (A89216-9 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium maturity. Medium vine size.

Uses: Fresh.

Strengths: nice net

Weaknesses: poor shape yield-, curved

Cutting Notes:

AOTX95265-4Ru - Long Russet. Parentage (A89216-9 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium-late maturity. Medium-large vine size. White flower color.

Uses: Fresh.

Strengths: blocky

Weaknesses: bad rep, drop++ light yellow flesh?, small,

Cutting Notes:

AOTX95295-1W - Round White. Parentage (A89804-7 x Ranger Russet). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Chip.

Strengths:

Weaknesses: poor shape, rough, sticky stolon rough, drop?

Cutting Notes: sprouts+

Chip Notes: 8 vas; BOT-

AOTX95309-3W - Round White. Parentage (A9055-8LS x A89163-3LS). Cross was made in Aberdeen, produced in Oregon, and selected in Texas. Late maturity. Large vine size.

Uses: Chip.

Strengths: nice, CO increase, BOT, heavy set

Weaknesses: drop yield-

Cutting Notes: sprouts+

Chip Notes: 6 vas; 1 bruise

AOTX96075-1Ru - Long Russet. Parentage (A84118-3 x A89384-10). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths:

Weaknesses: small, rough, curved, drop

Cutting Notes: very nice

AOTX96084-1Ru - Oblong Russet. Parentage (A8792-1 X A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium maturity. Large vine size. White flower color.

Uses: Fresh.

Strengths: blocky keep

Weaknesses: small

Cutting Notes: very nice

AOTX96208-1Ru - Long Russet. Parentage (A9057-7 x A91194-3). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Early maturity. Large vine size.

Uses: Fresh.

Strengths:

Weaknesses: small, curved

Cutting Notes: small Rhizoctonia, drop+

AOTX96216-2Ru - Long Russet. Parentage (A89216-9 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Late maturity. Large vine size. White flower color

Uses: Fresh.

Strengths: blocky, nice large tubers BOT

Weaknesses: light set, curved

Cutting Notes: rough, bad rep large, rough

AOTX96265-2Ru - Oblong Russet. Parentage (A90621-4 X A84180-8). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Late maturity. Large vine size. White flower color

Uses: Fresh.

Strengths: nice, nice shape

Weaknesses: sticky stolon, too long

Cutting Notes: very nice, blocky

AOTX98096-1Ru - Oblong Russet. Parentage (Shepody x A92158-3). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium-early maturity. Large vine size.

Uses: Fresh.

Strengths: nice shape blocky shape ok

Weaknesses: small, light skin pointed drop?, poor internals

Cutting Notes: small

AOTX98152-3Ru - Oblong Russet. Parentage (A88338-1 X A9201-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium early maturity. Medium vine size. Lavender flower color.

Uses: Fresh.

Strengths: large tubers BOT, blocky, nice

Weaknesses: rough

Cutting Notes: nice, blocky

AOTX98202-1Ru - Oblong Russet. Parentage (A9201-6 X A9014-2). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths: BOT, high yield, nice

Weaknesses: slight feathering light net

Cutting Notes: some large tubers

ATC00293 -1W/Y - Oblong White/Yellow. Parentage (Agria x TXA1655-1DY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Colorado. Medium maturity. Large vine size. Purple flower color.

Uses: Fresh.

Strengths: nice flesh, nice shape and skin

Weaknesses: 10% tuber moth, 17% heat sprouts, chain tubers++, drop, purple eyes, shape problems, lenticels, small

Cutting Notes: very nice flesh

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.

Strengths: High yield, high specific gravity, low sugar buildup in storage, chips well directly from field short term storage at 50o, uniform tuber size and shape, tolerant to scab and Verticillium wilt, resistant to pink eye and highly resistant to race A of golden nematode, PVX and tuber net necrosis.

Weaknesses: Very susceptible to internal heat necrosis, particularly in sandy soils in warm, dry seasons, susceptible to hollow heart, shatter bruise, Rhizoctonia and storage rots, buff skin Oversize

Cutting Notes: buff skin, nice shape

Chip Notes: 2 MB; 1 GH3 bruise, 5 MB, 2 vas

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

Uses: Fresh.

Strengths: nice shape yield+

Weaknesses: heat sprouts, sticky stolon, silver scurf, drop+++ 25% heat sprouts, drop++, half dollar size,<sup>1</sup>FC=2

Cutting Notes: firm, light skin and flesh

ATTX00289-6Y/Y - Round Yellow/Yellow. Parentage (NDA5507-3 X TXA1655-1DY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Specialty.

Strengths: keep, red eyes

Weaknesses: 10% chain tubers, feathering, 10% heat sprouts, ZC susceptible poor appearance FC=2.5

Cutting Notes: nice, some hollow heart

ATTX01178-1R - Oblong Red. Parentage (ND5084-3R x Winema). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths:

Weaknesses: light skin, yield+, feathering, stem attachment

Cutting Notes: nice, Rhizoctonia

ATTX01180-1R/Y - Oblong Red/Yellow Parentage (ND5084-3R x A92657-1R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Specialty.

Strengths: dark flesh and skin BOT

Weaknesses: sticky stolon feathering, , ZC?? some pointed, low yield

Cutting Notes: purple streaks in flesh

ATTX02249-1R - Oblong Red/Yellow. Parentage (A92653-6R X Granola). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Fresh.

Strengths:

Weaknesses: 14% heat sprouts, quarter size, drop+, sticky stolon Drop

Cutting Notes: light skin and flesh

ATTX03446-4W - Oblong White. Parentage (A96920-17 x MSII52A). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Chip.

Strengths: keep small, nice, nice internals CR=1CR=1

Weaknesses: light set

Cutting Notes: firm

ATTX03474-1W - Round White. Parentage (NDTX4930-5W X C0A96141-4). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Chip.

Strengths: yield+, parent BOT, nice internals, CR=1 CR=1

Weaknesses: sticky stolon shape? oversized, rough, bad rep

Cutting Notes:

ATTX03474-2W - Round White. Parentage (NDTX4930-5W X C0A96141-4). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Chip.

Strengths: nice flesh, Move to Russet trial??CR=1

Weaknesses: oversized bad rep sticky stolon oblong to long,

Cutting Notes: sprouts, rough, poor shape

ATTX03474-3W - Round White. Parentage (NDTX4930-5W X C0A96141-4). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Chip.

Strengths: keep CR=1, CR=1

Weaknesses: small, sticky stolon some rough+

Cutting Notes: OK

ATTX03475-10Ru - Oblong Russet. Parentage (NDTX4930-5W X NYII2). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Fresh.

Strengths: nice, smooth, blocky keep, light russet

Weaknesses:

Cutting Notes:

ATTX03475-6W - Oblong Russet. Parentage (NDTX4930-5W X NYII2). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Fresh.

Strengths: CR=1

Weaknesses:

Cutting Notes:

ATTX03475-7Ru - Oblong Russet. Parentage (NDTX4930-5W X NYII2). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Fresh.

Strengths: high yield, BOT

Weaknesses: bad rep, drop?

Cutting Notes:

ATTX03475-9Ru - Oblong Russet. Parentage (NDTX4930-5W X NYII2). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Fresh.

Strengths: blocky nice

Weaknesses: bad rep, 5 tubers in Rep

Cutting Notes:

ATTX03476-2W - Oblong White. Parentage (NDTX4930-5W X Chipeta). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Chip.

Strengths: high yield CR=1 CR=2 BOT

Weaknesses: sticky stolon yield-a little rough deep eyes

Cutting Notes: rough, large

ATTX03516-2R/Y - Oblong Red/Yellow. Parentage (A961014-12RY x NDTX4271-5R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Fresh.

Strengths: dark skin, keep, nice skin smooth FC=3,

Weaknesses: nickel size drop

Cutting Notes: shriveled

ATTX03553-1P/Y -Round Purple/Yellow. Parentage (Inca Gold X A096747-2RJY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Fresh.

Strengths:

Weaknesses: deep eyes LaSoda like, drop++, 12% chain tubers

Cutting Notes: poor skin finish deep eyes, drop, poor internal, low yield, road map FC=1.5

ATTX05175-1R/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.

Strengths: nice flesh smaller tubers have nice shape

Weaknesses: deep eyes

Cutting Notes:

ATTX05191-3R/Y - Oblong Red/Yellow. Parentage (Luna323 X Modoc). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Fresh.

Strengths: , nice skin

Weaknesses: drop, heat sprouts, poor internal quarter size, small 5% heat sprouts, chain tubers, drop FC=2

Cutting Notes: nice flesh

ATTX06008-2Ru - Russet. Parentage (A920305 x A961098) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas

Uses: Fresh

Strengths:

Weaknesses:

Cutting Notes:

ATTX06008-6Ru - Russet. Parentage (A920305 x A961098) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas

Uses: Fresh

Strengths:

Weaknesses:

Cutting Notes

ATTX06026-1Ru - Russet. Parentage (A99034-2E x AOND95249-1 Russ) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas

Uses: Fresh

Strengths:

Weaknesses:

Cutting Notes

ATTX06246-1R - Red. Parentage (Gogu Valley x Modoc) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas

Uses: Fresh

Strengths:

Weaknesses:

Cutting Notes

ATTX06274-2WParentage - White. (COA99261-IRY x VC1075-IR) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas

Uses: Chip  
Strengths:  
Weaknesses:  
Cutting Notes

ATTX88481-1P/W - Oblong Purple. Parentage (A83302-1 x Bison). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Fresh.  
Strengths: nice shape and skin large tubers, resistant to cause of small potato smooth bulking parent  
Weaknesses: feathering+ second growth silver scurf+, heat sprouts  
Cutting Notes:

ATTX88654-2P/Y - Oblong Purple/Yellow. Parentage (PI343201 x Gurney's Purple). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas..

Uses: Specialty.  
Strengths:  
Weaknesses: light flesh, silver scurf, heat sprouts, drop, deep nose and eyes poor shape+, drop++, stem attachment, deep indentation at stem FC=1.5  
Cutting Notes: light flesh

ATTX961014-1BR/Y - 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: Specialty.  
Strengths: keep, smooth, BOT FC=2  
Weaknesses: 80% heat sprouts  
Cutting Notes: a few with purple streaks

ATTX961014-1R/Y - 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: Specialty.  
Strengths: FC=1.  
Weaknesses: 80% heat sprouts sliver scurf+, light flesh  
Cutting Notes: nice shape and skin, purple streaks in flesh, light flesh red/purple streaking ++

ATTX98444-16R/Y - Oblong Red/Yellow. Parentage (A83360-9R X T48YF). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Specialty.  
Strengths: nice shape, Doug likes, , very nice, BOT  
Weaknesses: some larger tubers silver scurf poor shape  
Cutting Notes: nice

ATTX98453-11BR - Round Red. Parentage (A93490-1R X A91846-5R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Early-medium maturity. Small-medium vine size. Lavender flower color.

Uses: Fresh.  
Strengths: nice shape  
Weaknesses: heat sprouts, small, yield-, stem attachment

Cutting Notes: nice shape and 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.

Strengths: nice++, BOT-

Weaknesses: feathering, , stem attachment 2 tubers in rep 1, light set

Cutting Notes: very nice

ATX98466-5R/W-R - Round White. Parentage (ND2051-1Ru x A7961-1). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Chip.

Strengths: light red streak in flesh

Weaknesses: small, purple streaks in flesh, greenhead small , heat sprouts,

Cutting Notes: shriveled, red steaks in flesh

ATX98500-3PW/Y - Oblong-Pinto/Yellow. Parentage (P94A2-4Y X Granola). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Late maturity. Large vine size. Purple flower color

Uses: Specialty.

Strengths:

Weaknesses: purple- White. skin, poor shape, second growth, heat sprouts, drop pointed, purple pinto, poor shape, drop++ FC=3.0

Cutting Notes: flat

ATX98510-1R/Y - Oblong Red/Yellow. Parentage (T48YF X A93456-6R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Specialty.

Strengths: heavy set nice flesh, BOT FC=1.5

Weaknesses: drop++

Cutting Notes: nice, oversized, some red internal streaks

ATX99325-1P - Oblong Purple/White. Parentage (Agria x W1100R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Specialty.

Strengths: psyllid resistant.??, very nice White. flesh, bulked, BOT,

Weaknesses: feathering, bad rep drop

Cutting Notes:

ATX02263-1R/Y - Oblong Red/Yellow. Parentage (Inca Gold x A92653-6R). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.

Strengths: larger tubers are smooth, smooth, nice flesh, nice skin color

Weaknesses: light set, some larger tubers, too oblong

Cutting Notes: firm

ATX03496-3Y/Y - Oblong Yellow/Yellow. Parentage (NDTX4271-5R x AO93487-2R). Cross was made in Aberdeen and selected in Texas.

Uses: Specialty.

Strengths: nice flesh, smooth, keep? small potato?? FC=3.1



Weaknesses: yield-, rough+, egg shaped, lenticels heat sprouts drop+  
Cutting Notes: small, nice

ATX03515-1R/Y - Oblong Red/Yellow. Parentage (A961014-12RY x NDC5281-2). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.  
Strengths: crisp large tubers, orange size FC=2  
Weaknesses: mix yellow and White. flesh  
Cutting Notes: small, shriveled

ATX03516-2R - Oblong Red. Parentage (A961014-12RY x NDTX4271-5R). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.  
Strengths: large tubers  
Weaknesses: 12% heat sprouts, internal??  
Cutting Notes: very nice, BOT

ATX03546-1W/Y - Oblong White/Yellow. Parentage (ATA98472-2Y x A97523-1RY). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.  
Strengths: smooth, small potato ??, nice, nice shape and size, BOT  
Weaknesses: yield-drop, poor shape small, 20% heat sprouts, stem attachment no purple streak in flesh, 35% heat sprouts, chain tubers  
Cutting Notes: firm, nice shape, light skin, no purple streaks

ATX03546-2R/Y - Oblong White/Yellow. Parentage (ATA98472-2Y x A97523-1RY). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.  
Strengths: nice flesh, FC=2.5  
Weaknesses: mixed flesh color, silver scurf 22% chain tubers, quarter size, 22% heat sprouts, drop+++  
Cutting Notes: mix White. and yellow flesh, planted yellow flesh

ATX03550-2R - Oblong Red. Parentage (NDTX4271-5R x AO96747-2R/Y). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.  
Strengths: nice skin keep  
Weaknesses: poor rep drop, light set, low yield 10% heat sprouts  
Cutting Notes:

ATX05142-2Ru - Oblong Russet. Parentage (Rio Grande R. x A97214-4). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.  
Strengths: nice shape very White. flesh  
Weaknesses: feathering, pointed small, bad rep, drop++, low yield  
Cutting Notes: small

ATX05175-3R/Y - Oblong Red. Parentage (A99331-2RY x COA99261-1RY). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.

Strengths: large tubers FC=2.1  
Weaknesses: B size  
Cutting Notes: small

ATX05188-1Y/Y - Round Yellow. Parentage (Durango Red x Modoc). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.  
Strengths: FC=1.5  
Weaknesses: drop+++ , pear shaped, heat sprouts  
Cutting Notes:

ATX05202-3W/Y - Oblong White/Yellow. Parentage (A00286-3Y x A99433-5Y). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.  
Strengths: some larger tubers , nice heavy set, , nice skin, shape, and flesh send to Mel, nice, BOT  
Weaknesses: too oblong, 10% chain tubers70% heat sprouts  
Cutting Notes: firm, lot of ZC, BOT

ATX06206-6W/Y - Round White/Yellow. Parentage (A99007-12 x AOA95154-1). Cross was made in Aberdeen and selected in Texas.

Uses: Chip.  
Strengths:  
Weaknesses: small, heat sprouts, yellow flesh, drop CR=3  
Cutting Notes:

ATX06173-2W - Round White/Yellow. Parentage (A99007-12 x AOA95154-1). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.  
Strengths: CR=1  
Weaknesses:  
Cutting Notes:

ATX06264-1Pinto - Pinto. Parentage (A99331-2RY x Durango Red) Cross was made in Aberdeen and selected in Texas

Uses: Fresh.  
Strengths:  
Weaknesses:  
Cutting Notes:

ATX06264-4R/Y - Red/Yellow. Parentage (A99331-2RY x Durango Red) Cross was made in Aberdeen and selected in Texas

Uses: Fresh.  
Strengths:  
Weaknesses:  
Cutting Notes:

ATX06282-1R/Y - Round Red/Yellow. Parentage (COA99261-1RY x US 147-96 R/Y) Cross was made in Aberdeen and selected in Texas

Uses: Fresh.  
Strengths:  
Weaknesses:  
Cutting Notes:

ATX06354-1W/Y - Oblong White/Yellow. Parentage (COA99261-1RY x US 147-96 R/Y) Cross was made in Aberdeen and selected in Texas

Uses: Fresh.

Strengths:

Weaknesses: heat sprouts, drop++ FC=2.0

Cutting Notes:

ATX07144-1R - Red. Parentage (NorDonna x VC1075-1R) Cross was made in Aberdeen and selected in Texas

Uses: Fresh.

Strengths:

Weaknesses:

Cutting Notes:

ATX07305-1Y/Y - Yellow/Yellow. Parentage (A99433-5Y x Mila) Cross was made in Aberdeen and selected in Texas

Uses: Fresh.

Strengths: CR=1

Weaknesses:

Cutting Notes:

ATX07365-1W - White. Parentage ( A01-1131-2 x Melody) Cross was made in Aberdeen and selected in Texas

Uses: Fresh.

Strengths: CR=1

Weaknesses:

Cutting Notes:

ATX84378-6Ru - Oblong-Long Russet. Parentage (A79141-9 x ND329-1). Cross was made in Aberdeen, and selected in Texas.

Uses: Fresh.

Strengths: blocky nice flesh BOT

Weaknesses: some rot, growth cracks, light set

Cutting Notes: large, blocky

ATX85404-8W - Round White. Parentage (Gemchip x ND860-2). Cross was made in Aberdeen and selected in Texas. Medium-late maturity. Medium-large vine size. White. flower color.

Uses: Chip.

Strengths:

Weaknesses: rough, drop? yield-, heat sprouts, sticky stolon CR=1

Cutting Notes: sprouts+

Chip Notes: 2 GH1 dark; 3 bruise; 4 vas

ATX91137-1Ru - Oblong Russet. Parentage (A81473-2 x A8343-12) Cross was made in Aberdeen, and selected in Texas.

Uses: Fresh.

Strengths:

Weaknesses: raised eyes, 10% rot, blocky, sticky stolon, 10% bruise

Cutting Notes: very nice, nice shape

ATX9132-2Y - Round Yellow/Yellow. Parentage (??). Cross was made in Aberdeen and selected in Texas.

Uses:

Strengths:

Weaknesses: very late, no yield, parent, heavy set, very small Drop

Cutting Notes: sprouts++, very deep eyes

ATX9202-3Ru - Oblong Russet. Parentage (A8343-12 x A8495-1) Cross was made in Aberdeen, and selected in Texas.

Uses: Fresh.

Strengths:

Weaknesses: sticky stolon deep eyes, drop++

Cutting Notes: poor shape, rough, some internal red streaks

ATX9332-12Ru - Oblong Russet. Parentage (A8850-1 x A88288-1). Cross was made in Aberdeen and selected in Texas. Late maturity. Large vine size. White. flower color.

Uses: Fresh

Strengths: blocky

Weaknesses: small, ugly net, drop

Cutting Notes: small, nice shape

ATX97147-4Ru - Long Russet. Parentage (A79180-10 x A88236-6). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.

Strengths:

Weaknesses: poor shape sticky stolon, rough, light net

Cutting Notes: rough, poor skin

ATX98448-6R/Y - Round Red/Yellow. Parentage (A92657-1R X A89655-5DY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Fresh.

Strengths:

Weaknesses: 62% heat sprouts, chain tubers, poor flesh color and skin, poor interior, drop++

Cutting Notes: nice shape

ATX99013-1Ru - Long Russet. Parentage (A8893-1 x A91186-2). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.

Strengths: nice flesh

Weaknesses: rough, poor shape, bad rep, 60% stem end rot

Cutting Notes: small, rough

ATX99194-3Ru - Oblong Russet. Parentage (A94137-1 x GemStar Russet). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.

Strengths: nice shape

Weaknesses: heat sprout, blocky, small mixed, drop++++

Cutting Notes: very small

B1992-106 - Oblong White. Parentage (Atlantic x Superior). Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:  
Weaknesses: late, shape-  
Chip Notes: 1 GH9 vas; 1 GH; 1 bruise

B2492-7 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: shape-  
Chip Notes: 6 vas; 2 bruise

B2628-4 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: shape-nice but too long shape, feathering, russet parent  
Chip Notes: 4 vas; BOT

BNC202-7 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 1 GH12 vas; 2 bruise

BNC202-8 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: oversize sticky stolon  
Chip Notes: 4 vas; 2 dark

B2724-18 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: shape-oversize  
Chip Notes: 4 vas; BOT-

B2725-8 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes:

B2731-3 - Long White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: shape-too long

Chip Notes: 1 GH2 bruise; 1 vas; 1 dark; nice

B2731-13 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths: fast bulk  
Weaknesses: shape-oversize,  
Chip Notes: 10 vas; 1 bruise

B2735-12 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: shape-deep nose, drop  
Chip Notes: 1 HH; 10 vas; 2 bruise

B2735-12 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: shape-buff skin  
Chip Notes: 15 vas; 1 bruise

B2746-1- Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: shape-pear shape, drop  
Chip Notes: 12 vas

B2747-5 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: late yellow flesh, drop  
Chip Notes: 7 vas; 1 bruise

B2747-5- Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: very late poor shape, drop  
Chip Notes: 21 vas/dark

B2776-1- Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: late  
Chip Notes: 17 vas; 3 dark

B-163 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: drop

Chip Notes: 5 vas

B-166 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: deep eyes, drop

Chip Notes: 18 vas

B-173 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: early

Chip Notes: 4 bruise; 9 vas

B-190 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 1 GH1 GH; 6 vas; 2 bruise

B-191 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: shape-pointed, sticky stolon, drop

Chip Notes: 10 vas

B-192 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: early poor internals

Chip Notes: 11 vas/dark

B-212 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: early very rough, drop

Chip Notes: 1 ZC??13 vas; 1 bruise

B-237 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: shape-very rough, sticky stolon, drop

Chip Notes: 12 vas

B-257 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: rot, early bulk

Chip Notes: 1 HH; 1 MB; 1 GH1 HH; 6 bruise; 1 vas

B-258 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 10 vas

B2721-1 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: shape-poor shape

Chip Notes: 1 GH2 bruise; 3 vas

B2721-10 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 2 bruise; 1 HH; 6 vas

B2721-101 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: shape-

Chip Notes: 1 GH12 vas/dark

B2721-105 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths: heavy set

Weaknesses:

Chip Notes: 5 vas



B2721-121 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths: nice flesh  
Weaknesses: deep nose, russet skin,  
Chip Notes: 3 bruise; 4 vas

B2721-123 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: shape-drop  
Chip Notes: 8 vas

B2721-13 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths: early bulk  
Weaknesses: shape-,  
Chip Notes: 3 bruise; 6 vas

B2721-141 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: early buff  
Chip Notes: 2 GH6 vas; 1 bruise; 2 GH

B2721-15 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 6 bruise; 4 vas

B2721-159 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 9 vas; 1 bruise

B2721-18 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 1 ZC

B2721-22 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: early poor internals

Chip Notes: 17 MB17 MB; 1 vas

B2721-40 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 1 MB13 vas

B2721-42 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: small

Chip Notes: 12 vas

B2721-47 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths: BOT-

Weaknesses:

Chip Notes: 7 vas

B2721-63 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: early buff, poor shape

Chip Notes: 3 bruise; 3 vas

B2721-64 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: shape-, early oversize

Chip Notes: 3 bruise; 3 vas

B2721-67 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: late small, shape-

Chip Notes: 11 vas

B2721-73 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths: nice  
Weaknesses:  
Chip Notes: 4 bruise; 2 vas; nice

B2721-78 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 6 vas

B2721-93 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 19 vas

B2721-96 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 2 bruise; 9 vas/dark

B-282 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 1 MB; 1 HH; 1 GH1 HH; 16 vas

B-286 - Oblong White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths: BOT  
Weaknesses:  
Chip Notes: 10 vas

B-290 - Round White. Parentage (Atlantic x Superior).Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 3 MB5 bruise; 5 vas

B-3 - Oblong White. Parentage (Atlantic x Superior). Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: poor shape  
Chip Notes: 5 vas

B-70 - Round White. Parentage (Atlantic x Superior). Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: early Rhizoctonia  
Chip Notes: 14 vas/dark

B-89 - Oblong White. Parentage (Atlantic x Superior). Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: early  
Chip Notes: 1 MB1 MB; 4 vas; 4 bruise

B-94 - Oblong White. Parentage (Atlantic x Superior). Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: oversize, yield+ oversize, greenhead, buff  
Chip Notes: 2 MB; 1 GH4 bruise; 3 MB; 5 vas; 2 dark

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: Specialty.  
Strengths:  
Weaknesses: poor shape, curved, lot of small potatoes rough  
Cutting Notes: curved, rough, light flesh

Beacon Chipper - Round White. Parentage (??). Cross was made and selected at Michigan State University

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 1 GH10 vas; 1 GH

Boulder - Oblong White. Parentage (MS702-80 x NY88). Cross was made and selected at Michigan State University

Uses: Chip  
Strengths:  
Weaknesses: shape-drop  
Chip Notes: 8 vas

BTX1544-2W/Y - Oblong White/Yellow. Parentage (BO811-13 x Yukon Gold). Cross was made in Beltsville, Maryland and selected in Texas. Medium maturity. Medium vine size.

Uses: Specialty.

Strengths:

Weaknesses:

Cutting Notes: OK

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

Uses: Specialty.

Strengths: heavy set, nice flesh

Weaknesses: small , stem attachment

Cutting Notes: nice flesh

BTX2103-1R/Y - Oblong Red/Yellow. Parentage (BO811-13 x ARS-W82-21285-1). Cross was made in Beltsville, Maryland and selected in Texas.

Uses: Specialty.

Strengths:

Weaknesses: drop?, heat spouts, silver scurf small, drop, B size, sticky stolon,10% heat sprouts

Cutting Notes: light yellow flesh, nice shape and skin

BTX2332-1R - Round Red. Parentage (B1523-4 x Super Red Norland).Cross was made in Beltsville, Maryland and selected in Texas. Medium maturity. Large vine size. Lavender flower color

Uses: Fresh.

Strengths: nice flesh, shape and color, BOT, nice

Weaknesses: heat sprouts+, feathering, silver scurf, small

Cutting Notes: smooth, nice color and shape, BOT

C-118 - Round White. Parentage (Superior x Atlantic ). Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 6 vas

C-172 - Round White. Parentage (Superior x Atlantic ). Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: Rhizoctonia, drop

Chip Notes: 6 vas

C-27 - Oblong White. Parentage (Superior x Atlantic ). Cross was made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: early, shape-rough, drop

Chip Notes: 2 vas

C-57 - Oblong White. Parentage (Superior x Atlantic ). Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: Rhizoctonia, drop  
Chip Notes: 1 GH11 vas; 2 bruise; 1 dark

C-99 - Oblong White. Parentage (Superior x Atlantic ). Cross was made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: rough, drop  
Chip Notes: 6 vas

Chieftain - Round Red. Parentage (Ia1027-18 x La1354). Cross was made and selected at Iowa State University.

Uses: Fresh  
Strengths:  
Weaknesses:  
Cutting Notes:

Chipeta - Oblong White. Parentage (WNC612-13 x Wischip). Cross was made in Aberdeen and selected in Colorado. Released by USDA-ARS, Aberdeen, and Colorado Agricultural Experiment Stations. Late maturity. Large vine size. Red-Reddish purple corollas and large yellow anthers.

Uses: Chip and French fries.  
Strengths: High yield potential, high specific gravity and low sugar accumulation in storage will occasionally chip out of 40o storage, resistant to most internal and external defects including second growth, growth cracks, hollow heart, heat necrosis and blackspot bruises. Also resistant to leaf roll-induced net necrosis, Verticillium wilt, and both foliar and tuber phases of early blight BOT-++.  
Weaknesses: Irregular shape, may oversize, buff skin, variable tuber size, skin feathering, some russet patches, green heads, susceptible to Rhizoctonia, common scab, and Fusarium dry rot, late maturity, deep eyes  
Cutting Notes: very nice

CO00188-4W - Oblong White. Parentage (A90490-1W x BC0894-2W). Cross was made and selected in Colorado. Early maturity. Medium vine size. White. flower color.

Uses: Chip.  
Strengths: shape, nice flesh, BOT+, BOT for flesh, heavy set  
Weaknesses:  
Cutting Notes: nice  
Chip Notes: 1 GH4 bruise; 2 vas

CO00197-3W - Oblong White. Parentage (A91790-13W x NDTX4930-5W). Cross was made and selected in Colorado. Early maturity. Medium vine size. White. flower color.

Uses: Chip.  
Strengths: heavy set  
Weaknesses: poor shape, sticky stolon, pear shape, rough, ugly drop++  
Cutting Notes: nice  
Chip Notes: 11 vas

CO00270-7W - Oblong White. Parentage (BC0894-2W x A91790-13W). Cross was made and selected in Colorado. Early-medium maturity. Medium vine size. Purple flower color.

Uses: Chip.

Strengths: CR=1 CR=2  
Weaknesses: rough sticky stolon yield-, drop+, small  
Cutting Notes: nice  
Chip Notes: 4 bruise; 6 vas

CO00412-5W/Y - Oblong White/Yellow. Parentage (German Butterball x TX1523-1RU/Y). Cross was made and selected in Colorado. Medium maturity. Large vine size. Purple flower color.

Uses: Specialty.  
Strengths: nice flesh  
Weaknesses: very late, yield-, small++,  
Cutting Notes: very nice

CO01399-10P/Y - Round Purple/Yellow. Parentage (VC1015-5P/Y x Colorado Rose). Cross was made and selected in Colorado. Medium maturity. Large vine size. Purple flower color.

Uses: Specialty.  
Strengths:  
Weaknesses: drop+, small, heat sprouts, stolon attachment  
Cutting Notes: light yellow flesh, nice shape and skin

CO02024-9W - Round White. Parentage (A91790-13W x CO95051-7W). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White. flower color.

Uses: Chip.  
Strengths: heavy set nice and uniform CR=1  
Weaknesses: small+, rough+, feathering pear shape, ZC++, drop+  
Cutting Notes: small  
Chip Notes: 11 vas

CO02033-1W - Oblong White. Parentage (A91790-13W x S440). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White. flower color.

Uses: Chip.  
Strengths: heavy set CR=1  
Weaknesses: poor shape, rough, heat sprouts, drop+ CR=3  
Cutting Notes: more oblong  
Chip Notes: 1 HH; 3 ZC3 bruise; 3 vas

CO02321-4W - Oblong White. Parentage (NY115W x BC0894-2W). Cross was made and selected in Colorado. Medium maturity. Medium-large vine size. Purple flower color.

Uses: Chip.  
Strengths: BOT, nice+ <sup>1</sup>CR=1 CR=1  
Weaknesses: small, sticky stolon  
Cutting Notes: very nice  
Chip Notes: 3 bruise; 5 vas

CO03243-3W - Round White. Parentage (BC0894-2W x A91790-13). Cross was made and selected in Colorado

Uses: Chip  
Strengths: fast bulk  
Weaknesses: oversized,  
Chip Notes: 3 bruise; 4 vas

CO03273-7W - Round White. Parentage (CO95051-7W x A91790-13). Cross was made and selected in Colorado

Uses: Chip  
Strengths: fast bulk, parent  
Weaknesses: oversized,  
Chip Notes: 2 vas; 3 bruise

CO111f2-1 P/P - Oblong Purple/Purple. Parentage (??). Cross made and selected in Colorado.

Uses: Specialty.  
Strengths: high in anti-oxidants  
Weaknesses:  
Cutting Notes: very dark flesh

CO98067-7RU - Long Russet. Parentage (Silverton Russet x TC1675-1). Cross was made and selected in Colorado. Early-medium maturity. Medium vine size. White. flower color

Uses: Dual.  
Strengths:  
Weaknesses: small, blocky, 10% bruise, sticky stolon  
Cutting Notes: nice shape

CO99053-3RU - Long Russet. Parentage (AC91014-2 x Silverton Russet). Cross was made and selected in Colorado. Late maturity. Large vine size. White. flower color

Uses: Dual.  
Strengths:  
Weaknesses: pointed, drop, small, poor shape, skinny, sticky stolon  
Cutting Notes: nice shape

CO99053-4RU - Long Russet. Parentage (AC91014-2 x Silverton Russet). Cross was made and selected in Colorado. Early maturity. Medium vine size. White. flower color.

Uses: Fresh.  
Strengths:  
Weaknesses: heat sprouts, poor shape, light net  
Cutting Notes: small, blocky

CO99076-6R - Round Red. Parentage (AC91848-1 x Rio Colorado). Cross was made and selected in Colorado. Early maturity. Medium vine size. Red-purple flower color

Uses: Fresh.  
Strengths: nice shape and color, BOT+, very nice, nice skin, nice flesh,  
Weaknesses: stem attachment  
Cutting Notes: nice dark skin color

CO99100-1RU - Oblong Russet. Parentage (AC93047-1 x Silverton Russet). Cross was made and selected in Colorado. Early maturity. Small-medium vine size. White. flower color.

Uses: Dual.  
Strengths: parent for fast bulk, very nice  
Weaknesses: feathering, 10% rot  
Cutting Notes: nice shape, blocky

CO99256-2R - Oblong Red. Parentage (Rio Colorado x Colorado Rose). Cross was made and selected in Colorado. Medium maturity. Large vine size. Purple flower color

Uses: Fresh.  
Strengths:



Weaknesses: yield-, small+  
Cutting Notes: nice

COMN07-W112BG1 - Round White. Parentage (??). Cross was made and selected at the University of Minnesota

Uses: Chip  
Strengths:  
Weaknesses: late, purple skin and flesh, smooth  
Chip Notes: 6 dark

COMN07-W203BG1 - Oblong White. Parentage (??). Cross was made and selected at the University of Minnesota

Uses: Chip  
Strengths: yield+  
Weaknesses: shape-, , long  
Chip Notes: 6 bruise; 5 vas

COTX00104-7R - Oblong Red. Parentage (ND3574-5R x C086218-2). Cross was made in Colorado and selected in Texas. Medium-early maturity. Medium vine size. Lavender flower color.

Uses: Fresh.  
Strengths: nice flesh  
Weaknesses: ugly, alligator skin yield-pointed, drop++, road map, heat sprouts, sticky stolon, poor skin finish  
Cutting Notes: oversized, sprout++

COTX01403-4R/Y - Oblong Red/Yellow Parentage (VC1015-7R/Y x Winema). Cross was made in Colorado and selected in Texas.

Uses: Specialty.  
Strengths: smooth blocky, large tubers, nice flesh, BOT  
Weaknesses: 10% heat sprouts  
Cutting Notes: light red skin

COTX02377-1W - Round White-Buff. Parentage (Dakota Pearl x Chipeta). Cross was made in Colorado and selected in Texas.

Uses: Chip.  
Strengths:  
Weaknesses: rough, yield-, deep nose, shape-, Rhizoctonia oversized, deep eyes, drop++  
Cutting Notes: nice  
Chip Notes: 3 GH2 vas; 1 bruise

COTX03187-1W - Long White. Parentage (AC89536-5RU x A9304-3). Cross was made in Colorado and selected in Texas.

Uses: Specialty.  
Strengths: smooth nice uniform size, send to Mel for baby bakers, move to baby bakers  
Weaknesses: shape-, too large for fingerling  
Cutting Notes: nice shape, too large??

COTX03270-1W - Oblong White-Buff. Parentage (CO95007-1RU x AC96052-1RU). Cross was made in Colorado and selected in Texas.

Uses: Chip.

Strengths:

Weaknesses: small, heat sprouts, yield-

Cutting Notes: shape-

Chip Notes: 1 vas; BOT-

COTX03303-1W - Oblong White. Parentage (CO96083-7RU X Silverton Russet). Cross was made in Aberdeen and selected in Texas.

Uses: Chip.

Strengths: nice flesh nice interior CR=2 CR=1

Weaknesses: oblong to long,

Cutting Notes: buff

COTX04050-1P/P - Oblong Purple/Purple. Parentage (CO97215-2P/P x CO97306-2P/P). Cross was made in Colorado and selected in Texas

Uses: Specialty.

Strengths: heavy set some larger tubers nice

Weaknesses: silver scurf 30% chain tubers, 30% heat sprouts, some White. in flesh, variable flesh color intensity

Cutting Notes: dark flesh, some with White. streaks

COTX04178-1Y/Y - Oblong Yellow/Yellow. Parentage (ATC98444-1R/Y x CO99076-1R). Cross was made in Colorado and selected in Texas

Uses: Specialty.

Strengths:

Weaknesses: small potato, small, yield-, Drop

Cutting Notes: small

COTX04188-3R/Y - Oblong Red/Yellow. Parentage (ATC98515-1R/Y x ATC98444-1R/Y). Cross was made in Colorado and selected in Texas.

Uses: Specialty.

Strengths: smooth keep for hardness, very firm, half dollar size, nice flesh small potato??,

Weaknesses: 28% heat sprouts B size

Cutting Notes: small

COTX04193-2R/Y - Oblong Red/Yellow. Parentage (ATC98515-1R/Y x ND3574-5R). Cross was made in Colorado and selected in Texas.

Uses: Specialty.

Strengths: keep BOT-, nice flesh and skin

Weaknesses: silver scurf, heat sprouts, mix

Cutting Notes: nice skin and color

COTX04267-1R/Y - Oblong Red/Yellow. Parentage (CO98012-5R x CO97232-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: Specialty.

Strengths: quarter to orange size, nice flesh and skin, keep, very small

Weaknesses:

Cutting Notes: nice, small

COTX05037-4Y/Y - Oblong Yellow/Yellow. Parentage (AC99330-1P/Y x CO97227-2P/PW). Cross was made in Colorado and selected in Texas.

Uses: Specialty.

Strengths:

Weaknesses: some larger tubers, yield-, 10% chain tubers, poor shape Drop

Cutting Notes: nice shape, color, and flesh

COTX05082-2P/P - Oblong Purple/Purple. Parentage (CO97227-2P/P x WMSG147-3). Cross was made in Colorado and selected in Texas.

Uses: Specialty.

Strengths: nice shape very dark flesh, keep for flesh BOT for flesh color

Weaknesses: rough,

Cutting Notes: rough deep eyes,

COTX05095-1Ru - Long Russet. Parentage (CO99045-1W/Y X AO96164-1). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.

Strengths: yield+ nice flesh, large tubers, pycnidia res. BOT-, parent?

Weaknesses: poor skin finish lacks appearance pointed, drop++

Cutting Notes:

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

Uses: Fresh.

Strengths: keep for yellow flesh, heavy set

Weaknesses: pointed

Cutting Notes:

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

Uses: Fresh.

Strengths: nice skin color

Weaknesses: small, 50% sticky stolon, feathering, drop

Cutting Notes: nice color

COTX05211-7R - Oblong Red. Parentage (CO98012-5R x CO00278-4R). Cross was made in Colorado and selected in Texas.

Uses: Fresh.

Strengths: nice skin and flesh, keep heavy set

Weaknesses: small, road map, drop

Cutting Notes: nice color

COTX05261-1R/Y - Oblong Red/Yellow. Parentage (CO00379-2R/Y x CO00278-4R). Cross was made in Colorado and selected in Texas.

Uses: Specialty.

Strengths: nice flesh

Weaknesses: poor shape, pointed, drop+, Drop

Cutting Notes: pointed

COTX06052-2Ru - Oblong Russet. Parentage (A81386-1 x A9014-2). Cross was made in Colorado and selected in Texas.

Uses: Fresh.

Strengths:  
Weaknesses: blocky, drop++++  
Cutting Notes:

COTX06169-3R - Round Red. Parentage (AC00274-2R x CO01377-1R). Cross was made in Colorado and selected in Texas.

Uses: Fresh.  
Strengths:  
Weaknesses: only 2 tubers in 1 rep  
Cutting Notes:

COTX06221-1Ru - Long Russet. Parentage (CO00208-1RU X CO98067-7RU). Cross was made in Colorado and selected in Texas

Uses: Fresh.  
Strengths: yield parent high yield  
Weaknesses: oversized, drop++, sticky stem, alligator hide, poor shape, drop, light skin, deep eyes, rough  
Cutting Notes: very large tuber, oversized

COTX06235-2R/Y -. Oblong Red/Yellow. Parentage (CO01288-2R X CO01399-11R/Y). Cross was made in Colorado and selected in Texas

Uses: Fresh.  
Strengths: nice shape  
Weaknesses: silver scurf  
Cutting Notes:

COTX06240-2R/Y - Oblong Red/Yellow. Parentage (CO01377-1R X CO01399-11R/Y). Cross was made in Colorado and selected in Texas

Uses: Fresh.  
Strengths: larger tubers  
Weaknesses: stolon attachment, poor internals silver scurf, bad rep  
Cutting Notes: firm, nice

COTX06245-3R/Y - Oblong Red/Yellow. Parentage (CO01399-11R/Y X A83350-9R). Cross was made in Colorado and selected in Texas

Uses: Fresh.  
Strengths: large tubers  
Weaknesses: pointed  
Cutting Notes:

COTX07009-7Ru- White. Parentage (AC97306-1RU x CO99053-3RU) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07009-8Ru - Russet. Parentage (AC97306-1RU x CO99053-3RU) Cross was made in Colorado and selected in Texas.

Uses:

Strengths:  
Weaknesses:  
Cutting Notes:

COTX07018-2Ru - Russet. Parentage (AC99375-1RU x CO99053-3RU) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07024-1Ru - Russet. Parentage (AC00033-2RU x CO98067-7RU) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07024-2Ru - Russet. Parentage (AC00033-2RU x CO98067-7RU) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07024-4Ru - Russet. Parentage (AC00033-2RU x CO98067-7RU) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07054-2R - Red. Parentage (ATDC9801-3P x CO99076-6R) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07154-1R - Red. Parentage (Rodeo x CO99076-6R) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07168-1Ru - Russet. Parentage (A89219-7RU x AC97306-1RU) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:

Cutting Notes:

COTX07172-1W- White. Parentage (A90045-7RU x AC98043-2RU) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07179-2Ru - Russet. Parentage (A93157-6LS x CO98067-7RU) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07199-2Ru - Russet. Parentage (AC97044-4RU x Blazer Russet) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07206-1Ru - Russet. Parentage (AC97306-1RU x CO99028-2RU) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07299-1Ru - Russet. Parentage (CO99100-1RU x AC97306-1RU) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07354-1Ru - Russet. Parentage (PA99N82-4 x CO99100-1RU) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07380-2Ru - Russet. Parentage (Blazer Russet x CO99100-1RU) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07382-1W/Y Parentage (Blazer Russet x Innovator) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX07382-2W/Y- White/Yellow. Parentage (Blazer Russet x Innovator) Cross was made in Colorado and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

COTX90046-1W - Oblong White. Parentage (AC83064-6 x NDO1496-1). Cross was made in Colorado and selected in Texas.

Uses: Chip.  
Strengths:  
Weaknesses: yield-, drop, Rhizoctonia, poor internals, drop? CR=2, CR=3  
Cutting Notes: large tubers

COTX94216-1R - Round Red. Parentage (Purple Peruvian x Chipeta). Cross was made in Colorado and selected in Texas. Medium maturity. Medium vine size. Purple flower color.

Uses: Fresh.  
Strengths: nice white flesh heavy set  
Weaknesses: silver scurf, pronounced eyes drop, stem attachment, poor shape, silver scurf, poor skin finish+++  
Cutting Notes: very nice

COTX94218-1RCOTX94218-1R (045) - Round Red. Parentage (Red Ruby x Red Gold). Cross was made in Colorado and selected in Texas. Medium maturity. Large vine size. Lavender flower color.

Uses: Fresh.  
Strengths: heavy set, very white. flesh  
Weaknesses: yield- small B size, silver scurf, sticky stolon  
Cutting Notes: very nice

Dark Red Norland - Oblong Red. Parentage (Redkote x ND626). Cross was made and selected in North Dakota. Dark Red Norland is a clonal selection made by Stan Barrett of Texas and propagated by Gene Shaver, Nebraska. Early maturity. Medium vine size. Purple flower color.

Uses: Fresh.  
Strengths: Early maturity, dark red tubers, high resistance to PVA and moderate resistance to common scab, PVY and PLRV.  
Weaknesses: Tuber color will fade if allowed to fully mature, tubers exhibit variable tuber color and size, enlarged lenticels, will heat sprout and hollow heart, susceptible to PVS and early and late blights, rough, deep eyes, faded red skin, russetting silver scurf+, pointed Rhizoctonia  
Cutting Notes: nice

FL1833 - Round White. Parentage (??). Cross was made and selected by FRITO LAY CO.

Uses: Chip.  
Strengths: heavy set nice internals BOT CR=2 CR=2

Weaknesses: rot, oversize small, Rhizoctonia, sticky stolon, rough  
Cutting Notes: small, firm, nice shape  
Chip Notes: 1 MB5 vas; 2 bruise

FL1867 - Round White. Parentage (FL 162 x ATLANTIC). Cross was made and selected by FRITO LAY CO.

Uses: Chip.  
Strengths: yield+, BOT++, large tuber, parent <sup>1</sup>CR=1 CR=1  
Weaknesses: flat, bad rep  
Cutting Notes: small, firm, nice shape  
Chip Notes: BOT; 4 vas

FL1922 - Round White. Parentage (FL 1207 x AUK). Cross was made and selected by FRITO LAY CO.

Uses: Chip.  
Strengths: nice flesh CR=2 CR=1  
Weaknesses: , poor shape yield-, drop rough, pointed  
Cutting Notes: small, firm, nice shape  
Chip Notes: BOT

FL2048 - Oblong White. Parentage (??). Cross was made and selected by FRITO LAY CO.

Uses: Chip.  
Strengths: nice flesh large tubers, nice internals, BOT CR=1 CR=1  
Weaknesses: . too long some internal problems few large tubers, buff, oversized  
Cutting Notes: large tubers, nice shape  
Chip Notes: 4 vas; 3 bruise

FL2053 - Round White. Parentage (??). Cross was made and selected by FRITO LAY CO.

Uses: Chip.  
Strengths: nice flesh CR=1 CR=1  
Weaknesses: . rough, poor internals+ poor shape++, drop+, rough+, feathering  
Cutting Notes: small, firm, nice shape  
Chip Notes: 7 vas; nice

King Harry - Round White. Parentage (??) Cross was made and selected at Cornell University.

Uses: Fresh.  
Strengths: heavy set CR=2  
Weaknesses: some rot  
Cutting Notes:

MegaChip - Round White. Parentage (Wischip x FYF85). Cross was made and selected at the University of Wisconsin

Uses: Chip  
Strengths:  
Weaknesses: light set  
Chip Notes: 1 bruise; 2 vas; BOT-

MN02586 - Round White. Parentage (??). Cross was made and selected at the University of Minnesota.

Uses: Chip  
Strengths:  
Weaknesses: shape-yellow flesh  
Chip Notes: BOT



MN02588 - Round White. Parentage (??). Cross was made and selected at the University of Minnesota.

Uses: Chip

Strengths:

Weaknesses: early, drop

Chip Notes: 3 bruise; 2 dark

MN99380-1 - Round White. Parentage (??). Cross was made and selected at the University of Minnesota.

Uses: Chip

Strengths:

Weaknesses: late, pear shape, heat sprouts, poor shape, yellow flesh

Chip Notes: 2 GH2 bruise; 7 vas; 2 GH

MSH228-6 - Oblong White. Parentage (MSC127-3 x OP). Cross was made and selected at the Michigan State University.

Uses: Chip

Strengths:

Weaknesses: too long, drop

Chip Notes: 17 vas

MSK061-4 - Round White. Parentage (MSC148-A x Dakota Pearl). Cross was made and selected at the Michigan State University.

Uses: Chip

Strengths:

Weaknesses: shape-, drop

Chip Notes: 1 GH7 vas; nice

MSK409-1 - Oblong White. Parentage (MSC148-A x Liberator). Cross was made and selected at the Michigan State University.

Uses: Chip

Strengths:

Weaknesses: early

Chip Notes: 13 vas

MSL007-B - Round White. Parentage (MSA105-1 x MSG227-2). Cross was made and selected at the Michigan State University.

Uses: Chip

Strengths:

Weaknesses: drop

Chip Notes: 1 GH14 vas

MSL292-A - Round White. Parentage (Snowden x MSH098-2). Cross was made and selected at the Michigan State University.

Uses: Chip

Strengths:

Weaknesses: greenhead

Chip Notes: 2 GH; 2 vas; nice

MSM037-3 - Round White. Parentage (MSE230-6 x Dakota Pearl). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: lenticels, drop  
Chip Notes: 17 vas; 1 pre-ZC

MSM246-B - Round White. Parentage (MSE274-A x NY115). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: BOT

MSN170-A - Round White. Parentage (MSI055-5 x MSG227-2). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: late  
Chip Notes: 3 vas; 2 bruise

MSP270-1 - Round White. Parentage (MSNT-1 x MSG227-2). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: late  
Chip Notes: 12 vas; 3 bruise

MSP368-1 - Round White. Parentage (MSH095-4 x MSF099-3). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: late, drop  
Chip Notes: 5 bruise; 8 vas

MSP459-5 - Round White. Parentage (Marcy x NY121). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: early  
Chip Notes: 2 bruise; 3 vas

MSP515-2 - Round White. Parentage (Marcy x Missaukee). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: Rhizoctonia, sticky stolon  
Chip Notes: 7 vas; nice

MSQ035-3 - Round White. Parentage (MSG227-2 x Missaukee). Cross was made and selected at the Michigan State University.

Uses: Chip

Strengths:  
Weaknesses:  
Chip Notes: 9 vas

MSQ086-3 - Round White. Parentage (Onaway x Missaukee). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: uniform, Rhizoctonia  
Chip Notes: 3 vas; 2 bruise

MSQ089-1 - Round White. Parentage (A91790-13 x Missaukee). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: deep nose, yield+, poor shape, drop  
Chip Notes: 11 vas

MSQ130-4 - Round White. Parentage (Boulder x MSJ456-4Y). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths: parent, BOT  
Weaknesses: buff skin,  
Chip Notes: 1 GH1 GH; BOT

MSQ134-5 - Round White. Parentage (MSG004-3 x Missaukee). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: uniform  
Chip Notes: 1 GH7 vas; 2 bruise

MSQ279-1 - Round White. Parentage (Boulder x Pike) Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: late  
Chip Notes: 8 vas

MSR021-2 - Round White. Parentage (MSJ316-A x Missaukee). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths: nice  
Weaknesses:  
Chip Notes: 8 vas; 1 bruise

MSR036-5 - Round White. Parentage (MSL766-1 x Liberator). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths: fast bulk

Weaknesses: Rhizoctonia, light set, sticky stolon  
Chip Notes: 10 bruise; 2 vas

MSR041-3 - Round White. Parentage (Liberator x Missaukee). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: Rhizoctonia  
Chip Notes: 10 vas; 1 dark; 3 bruise

MSR058-1 - Round White. Parentage (Megachip x MSJ319-1). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: Rhizoctonia  
Chip Notes: 13 vas

MSR061-1 - Round White. Parentage (Megachip x NY121). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: Buff  
Chip Notes: 1 bruise; 4 vas; nice-

MSR089-9Y - Round White. Parentage (MSJ319-1 x OP). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: late, Rhizoctonia  
Chip Notes: 6 vas

MSR127-2 - Round White. Parentage (MSJ167-1 x MSG227-2). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: small  
Chip Notes: 10 vas; 7 dark

MSR128-4Y - Round White. Parentage (MSJ167-1 x MSJ126-9Y). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths: heavy set  
Weaknesses: Rhizoctonia  
Chip Notes: 2 bruise; 8 vas

MSR131-2 - Round White. Parentage (MSK061-4 x Pike). Cross was made and selected at the Michigan State University.

Uses: Chip  
Strengths:  
Weaknesses: late

Chip Notes: 1 ZC 3 bruise; 13 vas

MSR148-4 - Round White. Parentage (MSI152-A x Dakota Pearl). Cross was made and selected at the Michigan State University.

Uses: Chip

Strengths:

Weaknesses: late, rough, lot of culls, heat sprouts

Chip Notes: 5 bruise; 6 vas; 5 dark

MSR161-2 - Oblong White. Parentage (Stirling x MSJ126-9Y). Cross was made and selected at the Michigan State University.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 3 GH1 GH; BOT-

MSR169-8Y - Round White. Parentage (Pike x MSJ126-9Y). Cross was made and selected at the Michigan State University.

Uses: Chip

Strengths:

Weaknesses: small, buff, light yellow flesh

Chip Notes: 12 vas

MSS026-2 - Round White. Parentage (SJ-Y7 x MSJ126-9Y). Cross was made and selected at the Michigan State University.

Uses: Chip

Strengths: nice flesh

Weaknesses: Rhizoctonia,

Chip Notes: 11 vas; nice-

MSS165-2Y - Round White. Parentage (MSM188-1 x MSL159-AY). Cross was made and selected at the Michigan State University.

Uses: Chip

Strengths:

Weaknesses: late, small, greenhead

Chip Notes: 8 vas

MSS927-1 - Round White. Parentage (ND4350-3 x ND7799C-1). Cross was made and selected at the Michigan State University.

Uses: Chip

Strengths: nice flesh

Weaknesses:

Chip Notes: 15 vas/dark

ND039209C-3 - Round White. Parentage (?). Cross was made and selected at the University of North Dakota.

Uses: Chip

Strengths: fast bulk

Weaknesses: oversize,

Chip Notes: 3 vas; BOT-

- ND049219-5 - Round White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses: stolons  
Chip Notes: 10 dark; 3 bruise; 3 vas
- ND060597AB-6 - Round White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 6 vas
- ND060618cB-3 - Oblong White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses: late, drop  
Chip Notes: 2 pre-ZC; 13 vas
- ND060618CB-4 - Oblong White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses: rot+, late, rough, heat sprouts, drop  
Chip Notes: 11 vas; 2 bruise; 3 dark
- ND060686C-4 - Oblong White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses: stolons, drop  
Chip Notes: 7 bruise; 1 vas
- ND060713-13 - Oblong White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 7 vas
- ND060753-8 - Round White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses: late  
Chip Notes: 3 ZC15 vas
- ND6620-14 - Oblong White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses: late, drop  
Chip Notes: 15 vas/dark
- ND7192-1 - Round White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip

Strengths:  
Weaknesses: drop  
Chip Notes: 2 GH1 vas; 2 GH

ND7799c-1 - Round White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses: early  
Chip Notes: 8 vas

ND8304-2 - Long White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses: early, pointed, drop  
Chip Notes: 5 vas; 2 bruise

ND8307C-3 - Oblong White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses: nice, russet skin  
Chip Notes: 4 vas; 2 bruise

ND8331Cb-2 - Round White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses: small  
Chip Notes: 1 bruise; BOT

ND8331Cb-3 - Round White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses: stolons, heat sprouts, greenhead  
Chip Notes: 12 vas; 1 dark

ND8456-1 - Round White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 3 vas

ND8559-20 - Oblong White. Parentage (??). Cross was made and selected at the University of North Dakota.  
Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 1 GH3 bruise; 2 vas

NDA060396AB-1C - Round White. Parentage (Etb 6-5-5 x ND8229-3). Cross was made in North Dakota and selected in Aberdeen.  
Uses: Chip  
Strengths:

Weaknesses: uniform  
Chip Notes: 4 bruise; 4 vas; 2 HH

NDMN03324-4 - Round White. Parentage (??). Cross was made and selected at the University of Minnesota .

Uses: Chip  
Strengths:  
Weaknesses: rot, Rhizoctonia, light set  
Chip Notes: 4 vas; BOT

NDMN04910-01 - Oblong White. Parentage (??). Cross was made and selected at the University of Minnesota .

Uses: Chip  
Strengths: uniform, heavy set  
Weaknesses: Rhizoctonia  
Chip Notes: BOT

NDMN04911-01 - Oblong White. Parentage (??). Cross was made and selected at the University of Minnesota .

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 13 dark; 2 BC

NDMN07-B302BG1 - Round White. Parentage (??). Cross was made and selected at the University of Minnesota

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 2 GH; 2 ZC2 vas

NDMN07-B309BG1 - Round White. Parentage (??). Cross was made and selected at the University of Minnesota

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 4 bruise

NDMN07-B312BG1 - Oblong White. Parentage (??). Cross was made and selected at the University of Minnesota .

Uses: Chip  
Strengths:  
Weaknesses: yield-, early  
Chip Notes: 2 bruise; 4 vas

NDMN07-B318WG1 - Oblong White. Parentage (??). Cross was made and selected at the University of Minnesota .

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: BOT



NDMN07-B322BG1 - Oblong White. Parentage (?). Cross was made and selected at the University of Minnesota .

Uses: Chip  
Strengths:  
Weaknesses: yield+, shape-  
Chip Notes: 1 bruise; 2 vas; BOT

NDMN07-B326BG1 - Round White. Parentage (?). Cross was made and selected at the University of Minnesota .

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 1 GH2 bruise; 6 vas

NDMN07-GF056BG1 - Round White. Parentage (?). Cross was made and selected at the University of Minnesota .

Uses: Chip  
Strengths:  
Weaknesses: shape-rough, oversize  
Chip Notes: 9 vas

NDMN07-GF059WG1 - Round White. Parentage (?). Cross was made and selected at the University of Minnesota .

Uses: Chip  
Strengths:  
Weaknesses: Rhizoctonia, yield-  
Chip Notes: 1 bruise; BOT-

NDMN07-W159BG1 - Round White. Parentage (?). Cross was made and selected at the University of Minnesota .

Uses: Chip  
Strengths:  
Weaknesses: shape-  
Chip Notes: 2 bruise

NDTX039190-1R - Oblong Red. Parentage (ND 8089-2R x ND 4659-5R). Cross was made in North Dakota and selected in Texas.

Uses: Fresh  
Strengths: nice white, flesh  
Weaknesses: bad rep sticky stolon 4 tubers in rep 1, bad rep, silver scurf, drop  
Cutting Notes: nice red

NDTX049265-2WRSP/Y - Oblong White. Red Splash/Yellow. Parentage (ATND 99331-2 Pinto x Dakota Rose). Cross was made in North Dakota and selected in Texas.

Uses: Specialty.  
Strengths: white, red splash  
Weaknesses: , yield-rough, drop++ FC=2.5  
Cutting Notes: small

NDTX050025-1W/Y - Oblong White/Yellow. Parentage (ND 8083b-1pY x ATND 98459-1RY). Cross was made in North Dakota and selected in Texas.

Uses: Specialty.

Strengths: heavy set, baby baker FC=1.5

Weaknesses: lenticels odd skin color, shape-, second growth, drop, rough, pointed, small, 10% chain tuber

Cutting Notes: 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.

Strengths: very white, flesh does not oversize

Weaknesses: road map

Cutting Notes: nice round red

NDTX050169-2W/Y - Oblong White/Yellow. Parentage (ND 8555-8R x R 89063-84). Cross was made in North Dakota and selected in Texas.

Uses: Specialty.

Strengths: baby baker heavy set ok

Weaknesses: rough, odd color, small, rough, , pear shape, ugly, lenticels, drop++ FC=1.8

Cutting Notes:

NDTX050184-1R/Y - Round Red/Yellow. Parentage (ND 028577-6RY x ND 8555-8R). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.

Strengths: b size, small potato?? FC=2.5

Weaknesses: 7.5% heat spouts, mix flesh color, drop, quarter size, small,

Cutting Notes:

NDTX050239-2R - Oblong Red. Parentage (ND 028685-1R x ND 8512C-17R). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.

Strengths: dark skin, nice but small good color

Weaknesses: small+, heat sprouts, small, low yield, silver scurf, road map

Cutting Notes: nice color and shape

NDTX050264-1W - Round White. Parentage (ND 028770B-4R x ND 028678-1RY). Cross was made in North Dakota and selected in Texas.

Uses: Specialty.

Strengths: small potato??, keep FC=1.6

Weaknesses: small, drop if not small potato

Cutting Notes: shriveled

NDTX059632-1W - Oblong White. Parentage (Dakota Pearl x ND 7377Cb-1). Cross was made in North Dakota and selected in Texas.

Uses: Chip

Strengths: heavy set

Weaknesses: small pointed, drop

Cutting Notes: ugly

Chip Notes: 1 HH1 HH; 9 vas

NDTX059759-3Pinto/Y - Oblong Pinto/Yellow. Parentage (ATND 99331-2 Pinto x ND 7834-2P). Cross was made in North Dakota and selected in Texas.

Uses: Specialty.

Strengths: BOT-, red pinto, some purple streaks in flesh, nice flesh, keep? advance FC=3.0

Weaknesses: yield-, poor shape

Cutting Notes: some purple streaks

NDTX059828-2W NDTX059828-2W ( 179 ) - Round White. Parentage (ND 4659-5R x ND 8524B-1R). Cross was made in North Dakota and selected in Texas.

Uses: Chip.

Strengths: CR=1 CR=1+

Weaknesses: drop heat sprouts

Cutting Notes:

Chip Notes: 1 HH1 bruise; 1 vas; 1 GH; 1 HH

NDTX059886-1Y/Y - Oblong Yellow/Yellow. Parentage (ND 7192-1 x ND 8178-1Y). Cross was made in North Dakota and selected in Texas.

Uses: Specialty.

Strengths: nice, nice shape, heavy set

Weaknesses: some larger tubers, , 15% heat sprouts, 10% chain tubers, light flesh

Cutting Notes: too large??

NDTX059979-1W - Round Buff. Parentage (ND 7519-1 x Dakota Diamond). Cross was made in North Dakota and selected in Texas

Uses: Chip.

Strengths:

Weaknesses: small. small, heat sprouts, rough, sticky stolon, Rhizoctonia

Cutting Notes: shriveled, but firm, some yellow flesh

Chip Notes: 7 vas

NDTX059997-2W - Oblong White. Parentage (ND 7799c-1 x ND 860-2). Cross was made in North Dakota and selected in Texas

Uses: Chip.

Strengths: Fast early bulk, nice flesh yield+, parent, TC BOT+, CR=1

Weaknesses: deep eyes, deep belly button oversize

Cutting Notes: sprouts+

Chip Notes: 5 bruise; BOT-

NDTX059997-6W - Round White. Parentage (ND 7799c-1 x ND 860-2). Cross was made in North Dakota and selected in Texas

Uses: Chip.

Strengths: nice shape smooth

Weaknesses: poor internals, light set, heat sprouts heat sprouts

Cutting Notes: nice, sprouts+

NDTX059997-7W - Oblong White. Parentage (ND 7799c-1 x ND 860-2). Cross was made in North Dakota and selected in Texas

Uses: Chip.

Strengths:

Weaknesses: small, yield-, heat sprouts, drop  
Cutting Notes:  
Chip Notes: 2 bruise; 2 vas; BOT-

NDTX060700C-1W - Round White. Parentage (NDTX 7560C-4 x NDTX 7192-1). Cross was made in North Dakota and selected in Texas

Uses: Chip.  
Strengths: nice shape  
Weaknesses: small, drop++ FC=1.0  
Cutting Notes:

NDTX060725-1P - Round Purple. Parentage (ND 7834-2P X ND 7192-1). Cross was made in North Dakota and selected in Texas

Uses: Chip.  
Strengths: nice, FC=1  
Weaknesses: silver scurf, road map  
Cutting Notes:

NDTX060868-3Y/Y - Oblong Yellow/Yellow. Parentage(ND 028587-1RY X ND 039051B-1R). Cross was made in North Dakota and selected in Texas

Uses: Specialty.  
Strengths: keep?, FC=2.5 FC=2  
Weaknesses: fingerling?, pointed pear shaped curved, poor shape+, drop++, small  
Cutting Notes: nice flesh, BOT

Oblong Yellow

NDTX071084C-2W- White. Parentage (ND 6809C-3 x ND 860-2) Cross was made in North Dakota and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

NDTX071109C-1W- White. Parentage (ND 7226C-17 x ND 860-2) Cross was made in North Dakota and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

NDTX071112-5W- White. Parentage (ND 7818-1Y x ND 860-2) Cross was made in North Dakota and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

NDTX071217CB-1W- White. Parentage (ND 028801CB-1 x ND 039004B-2Y) Cross was made in North Dakota and selected in Texas.

Uses:

Strengths:  
Weaknesses:  
Cutting Notes:

NDTX071258B-1R - Red. Parentage (ND 039035B-9R x ND 4659-5R) Cross was made in North Dakota and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

NDTX071407B-2R - Red. Parentage (ND 049351B-5R x T 10-12) Cross was made in North Dakota and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

NDTX081451CB-1Y/Y - Yellow/Yellow. Parentage(Dakota Diamond x Gala ) Cross was made in North Dakota and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

NDTX4271-5R - Round Red. Parentage (NDTX9-1068-1R x ND2050-1R). Cross was made in North Dakota and selected in Texas. Early to medium maturity. Medium vine size.

Uses: Fresh.  
Strengths: nice skin BOT  
Weaknesses: bad rep sticky stolon, heat sprouts  
Cutting Notes: very nice shape and color

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.  
Strengths: nice shape, nice skin nice BOT-  
Weaknesses: stem attachment, silver scurf, small+, bad rep(drop?)  
Cutting Notes: nice flesh

NDTX5003-2R - Round Red. Parentage (ND3504-3R x ND2050-1R). Cross was made in North Dakota and selected in Texas. Very early maturity. Small vine size. Lavender flower color

Uses: Fresh.  
Strengths: nice shape nice flesh  
Weaknesses: yield-, small+, ugly eyes, poor skin finish  
Cutting Notes: nice shape

NDTX5438-11RNDTX5438-11R (053) - 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.  
Strengths: yield+, nice++, skin color smooth

Weaknesses: small sticky stolon, 20% heat sprouts  
Cutting Notes: very nice

NDTX731-1R - Round Red. Parentage (ND169-10R x ND9476-5). Cross was made in North Dakota and selected in Texas. Early maturity. Medium-large vine size.

Uses: Fresh.

Strengths: yield+, nice

Weaknesses: poor skin finish, deep eyes, stem attachment sand paper skin

Cutting Notes: hollow heart

NDTX8303-1W- White. Parentage (ND 860-2 x White. Pearl) Cross was made in North Dakota and selected in Texas.

Uses:

Strengths:

Weaknesses:

Cutting Notes:

NDTX8305-1W- White. Parentage (ND 2471-8 x White. Pearl) Cross was made in North Dakota and selected in Texas.

Uses:

Strengths:

Weaknesses:

Cutting Notes:

NDTX8305-2W - White. Parentage (ND 2471-8 x White. Pearl) Cross was made in North Dakota and selected in Texas.

Uses:

Strengths:

Weaknesses:

Cutting Notes:

NDTX8305-3W - White. Parentage (ND 2471-8 x White. Pearl) Cross was made in North Dakota and selected in Texas.

Uses:

Strengths:

Weaknesses:

Cutting Notes:

NY138 - Oblong White. Parentage (?). Cross made and selected at Cornell University.

Uses: Chip.

Strengths: nice shape, yield+, BOT++ CR=1 CR=1

Weaknesses: light set

Cutting Notes: very nice

NYD40-35 - Oblong White. Parentage (NY121 x NY115). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses: drop

Chip Notes: 1 HH4 bruise; 2 vas; 1 HH

NYD40-50 - Round White. Parentage (NY121 x NY115). Cross made and selected at Cornell University.

Uses: Chip

Strengths: BOT

Weaknesses:

Chip Notes: 1 GH8 bruise

NYE106-4 - Round White. Parentage (NY128 x MARCY). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 11 vas

NYE50-8 - Round White. Parentage (V101-9 x NY115). Cross made and selected at Cornell University.

Uses: Chip

Strengths: heavy set, nice flesh

Weaknesses:

Chip Notes: 1 vas; 1 bruise

NYF47-3 - Round White. Parentage (White Pearl x Marcy). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses: shape-Rhizoctonia

Chip Notes: BOT

NYF47-5 - Round White. Parentage (White Pearl x Marcy). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses: late, drop

Chip Notes: 1 GH8 vas; 1 bruise

NYF48-4 - Round White. Parentage (White Pearl x NY115) Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses: drop

Chip Notes: 4 bruise

NYF57-3 - Round White. Parentage (White Pearl x NY115). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses: late, drop

Chip Notes: 3 vas

NYG20-11 - Round White. Parentage (Andover x NY115). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses: early

Chip Notes: 1 GH1 vas; BOT

NYG20-12 - Oblong White. Parentage (Andover x NY115). Cross made and selected at Cornell University.

Uses: Chip

Strengths:  
Weaknesses:  
Chip Notes: 1 bruise; BOT

NYG20-13 - Round White. Parentage (Andover x NY115). Cross made and selected at Cornell University.  
Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: BOT

NYG20-28 - Round White. Parentage (Andover x NY115). Cross made and selected at Cornell University.  
Uses: Chip  
Strengths:  
Weaknesses: deep nose, sticky stolon, drop  
Chip Notes: 3 vas; 2 bruise

NYG20-30 - Round White. Parentage (Andover x NY115). Cross made and selected at Cornell University.  
Uses: Chip  
Strengths:  
Weaknesses: shape-  
Chip Notes: 1 bruise; 2 vas; BOT

NYG20-31 - Round White. Parentage (Andover x NY115). Cross made and selected at Cornell University.  
Uses: Chip  
Strengths: heavy set  
Weaknesses: very late  
Chip Notes: 11 vas

NYG20-32 - Round White. Parentage (Andover x NY115). Cross made and selected at Cornell University.  
Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 1 bruise; 2 vas; nice

NYG20-33 - Oblong White. Parentage (Andover x NY115). Cross made and selected at Cornell University.  
Uses: Chip  
Strengths:  
Weaknesses: shape-  
Chip Notes: 3 bruise; BOT-

NYG20-4 - Oblong White. Parentage (Andover x NY115). Cross made and selected at Cornell University.  
Uses: Chip  
Strengths:  
Weaknesses: shape-rough, drop  
Chip Notes: 6 vas; 2 bruise; rot++++

NYG20-41 - Oblong White. Parentage (Andover x NY115). Cross made and selected at Cornell University.  
Uses: Chip  
Strengths:  
Weaknesses: pear shaped, drop



Chip Notes: 5 vas

NYG20-44 - Round White. Parentage (Andover x NY115). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses: Rhizoctonia

Chip Notes: 1 bruise; 1 vas; BOT

NYG20-5 - Round White. Parentage (Andover x NY115). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses: late

Chip Notes: 5 vas

NYG20-53 - Round White. Parentage (Andover x NY115). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 6 bruise; 6 vas

NYG20-55 - Oblong White. Parentage (Andover x NY115). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 2 vas; nice

NYG20-56 - Round White. Parentage (Andover x NY115). Cross made and selected at Cornell University.

Uses: Chip

Strengths: nice flesh

Weaknesses:

Chip Notes: 1 Z1 bruise; 11 vas

NYG20-58 - Round White. Parentage (Andover x NY115). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 3 GH2 bruise; BOT

NYG20-63 - Round White. Parentage (Andover x NY115). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 2 bruise; 1 vas

NYG86-1 - Round White. Parentage (NY138 x C956-1). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses: oversize

Chip Notes: 1 MB6 bruise; 3 vas

NYG87-3 - Round White. Parentage (NY139 x Marcy). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses: low yield

Chip Notes: 3 GH2 bruise; 2 GH; 3 vas

NYG89-1 - Oblong White. Parentage (NY139 x C956-1). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses: late, Rhizoctonia

Chip Notes: 12 vas

NYG89-2 - Round White. Parentage (NY139 x C956-1). Cross made and selected at Cornell University.

Uses: Chip

Strengths:

Weaknesses: small, drop

Chip Notes: 9 vas; 3 dark

PA00N14-2 - Long Russet. Parentage (PA95A14-22 x (Bulk Russ + Gem)). Cross was made and selected in Prosser, Washington. Medium maturity. White. flower color.

Uses: Dual.

Strengths: blocky, nice shape

Weaknesses: poor skin type ugly net, drop+, sticky stolon

Cutting Notes: skinny, some purple streaks in flesh

PA99N2-1 - Oblong Russet. Parentage (AO84275-3G6582-3). Cross was made and selected in Prosser, Washington. Medium maturity. Medium vine size. White. flower color.

Uses: Processing.

Strengths:

Weaknesses: round to oblong

Cutting Notes: nice shape

PA99N82-4 - Oblong Russet. Parentage (PA95B4-149 x Russ bulk). Cross was made and selected in Prosser, Washington.

Uses: Processing.

Strengths:

Weaknesses: small, too round

Cutting Notes: large tubers

POR03PG80-2 - Oblong Red/Yellow. Parentage (Satina x PA99P35-1). Cross was made in Prosser, Washington, tuberling produced in Oregon, and selected in Oregon. Medium-early maturity. Medium-vine size. Red-purple flower

Uses: Specialty.

Strengths:

Weaknesses: alligator skin, poor skin finish, some rough

Cutting Notes: too long, some purple streaks in flesh

Prince Hairy - Round White. Parentage (Hudson x PI 310925) Cross was made and selected at Cornell University.

Uses: Fresh.

Strengths: heavy set yield-, deep eyes, heat sprouts, drop+ CR=2 CR=2  
Weaknesses: rough, poor internals+, 30% insect damage  
Cutting Notes: small

PTTX05PG07-1W - Long White. Parentage (POR01PG22-1 x OR00067-7). Cross was made in Prosser, Washington, tuberling produced in Texas and selected in Texas.

Uses: Specialty.

Strengths: more small tubers BOT, nice shape and smooth skin, better than Banana

Weaknesses:

Cutting Notes:

Purple Majesty - Oblong Purple/Purple. Parentage (ND2008-2 x All Blue). Cross made and selected in Colorado. Late maturity. Large vine size. Blue flower color

Uses: Specialty.

Strengths: nice shape, nice, BOT+

Weaknesses: rough+, White. in flesh, rough, silver scurf

Cutting Notes: very dark flesh, nice shape

Purple Peruvian - Long Purple/Purple. Parentage (ND1562-4R x NDTX9-1098-11R).

Uses: Specialty

Strengths:

Weaknesses: very small, deep eyes, White. in flesh, small

Cutting Notes: deep eyes

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: Dual purpose.

Strengths: Dual purpose, medium to high specific gravity, good fry color from 45o storage, resistance to internal defects including hollow heart, brown center, net necrosis and sugar ends, high yield of large tubers, resistance to early dying.

Weaknesses: Susceptibility to scab, tendency for deep eyes, susceptibility to stress induced malformities, mediocre performance in Texas, feathering sticky stolon drop

Cutting Notes: skinny

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.

Strengths: High yields, wide adaptability nice white, flesh.

Weaknesses: Deep eyes, light color, occasional hollow heart, occasional growth cracks, Susceptible to PVX, PVY, PVS, PVM, PLRV, early and late blights, scab, corky ring spot, bacterial wilt, and Rhizoctonia, tubers can over-size and have poor skin set.

Cutting Notes: deep eyes

Oblong Red deep eyes, sticky stolon

Rio Rojo (Protected – PVP) - Round-oval Red. Parentage (ND1562-4R x NDTX9-1098-11R). Evaluated as NDTX4304-1R. Cross was made in North Dakota and selected in Texas. Early to medium maturity. Medium vine size. Dormancy is similar to Red LaSoda but longer than Dark Red Norland.

Uses: Fresh.

Strengths: nice

Weaknesses: growth crack feathering, 10% heat sprouts

Cutting Notes: nice color

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: Dual.

Strengths: Tolerant to scab, good long term storage.

Weaknesses: Susceptible to Fusarium and Verticillium wilts, PLRV, PVY and net necrosis, Jelly-end and sugar-end develop in tubers when plants are subjected to stress, stress results in knobs, pointed ends, and dumbbells many culls, Rhizoctonia++, rough, poor shape, skinny

Cutting Notes:

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.

Strengths: Uniform tuber shape, excellent appearance, and resistance to hollow heart, shallow eyes, high percentage of #1 tubers, tolerance to common scab and silver scurf nice flesh.

Weaknesses: Weak vine, susceptibility to early dying, most virus Uses especially PVY, and late blight, and very susceptible to Verticillium wilt and early blight Rhizoctonia, low yield.

Cutting Notes: nice shape, flesh, and color

Russet Norkotah112 (Protected – PVP) -. Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Russet Norkotah112 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.

Strengths: Good yield, uniform tuber shape, excellent appearance, resistance to hollow heart, some increased resistance to early dying, and environmental stresses, lower N requirement, more vigorous, and higher yielding than Russet Norkotah, heavy net, BOT.

Weaknesses: Five to ten days later than Russet Norkotah. Can produce a higher percentage of misshapen tubers than Russet Norkotah Rhizoctonia thin, pointed

Cutting Notes:

Russet Norkotah223 (Protected – PVP) -. Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Russet Norkotah223 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.

Strengths: Good yield, uniform tuber shape, excellent appearance, resistance to hollow heart, some increased resistance to early dying, and environmental stresses, lower N requirement, more vigorous, and higher yielding than Russet Norkotah, heavy net, BOT.

Weaknesses: Five to ten days later than Russet Norkotah. Can produce a higher percentage of misshapen tubers than Russet Norkotah Rhizoctonia thin, pointed

Cutting Notes:

Russet Norkotah278 (Protected – PVP) -. Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Russet Norkotah278 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.

Strengths: Good yield, uniform tuber shape, excellent appearance, resistance to hollow heart, some increased resistance to early dying, and environmental stresses, lower N requirement, more vigorous, and higher yielding than Russet Norkotah, heavy net, BOT.

Weaknesses: Five to ten days later than Russet Norkotah. Can produce a higher percentage of misshapen tubers than Russet Norkotah Rhizoctonia thin, pointed

Cutting Notes:

Russet Norkotah296 (Protected – PVP) - Oblong-Long Russet. Parentage (ND95264Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Russet Norkotah296 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah. Early maturity. Medium vine size. White. flower color.

Uses: Fresh.

Strengths: Nice, BOT.

Weaknesses: Five to ten days later than Russet Norkotah. Can produce a higher percentage of misshapen tubers than Russet Norkotah, rot.

Cutting Notes:

Sierra Gold (Protected – PVP) - Round-oblong Russet/Yellow. Parentage (Krantz x Delta Gold). Cross was made and selected in Texas. Early maturity. Medium vine size.

Uses: Specialty.

Strengths: very nice, BOT, smooth

Weaknesses: rough, pointed FC=2.5

Cutting Notes: very nice

Snowden - Oblong White. Parentage (B5141-6 x Wischip) Cross was made at the University of Wisconsin. Late maturity. White. flower color

Uses: Chip.

Strengths: parent nice heavy set CR=1 CR=3

Weaknesses: heat sprouts, sticky stolon

Cutting Notes: nice

Chip Notes: 5 bruise; 6 vas

Stampede Russet (Protected – PVP) - 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.

Strengths: nice flesh

Weaknesses: tuber moth, light set

Cutting Notes: very nice, sprouts++

TC02072-3P/P - Long Purple/Purple. Parentage (All Blue x NDC4069-1R/R). Cross made in Texas and selected in Colorado. Very early maturity. Medium vine size. Blue-purple flower color

Uses: Specialty.

Strengths: nice, smooth longer than Purple Majesty, very dark solid flesh

Weaknesses: shape-, fingerling?, rough

Cutting Notes:

TX03196-1W - Round White. Parentage (NDTX4748-7R x Adora). Cross was made and selected in Texas.

Uses: Chip.

Strengths: uniform, small heavy set CR=2 CR=1  
Weaknesses: drop  
Cutting Notes: small, firm, very nice  
Chip Notes: 2 bruise

TX04237-6Y/Y - Oblong Yellow/Yellow. Parentage (Russet Nugget x A92030-5). Cross was made and selected in Texas.

Uses: Specialty.  
Strengths: nice shape and skin  
Weaknesses: mixed flesh color, drop small, yield-, mix white, and yellow flesh, drop++FC=1.9  
Cutting Notes: nice, small

TX05249-10W - Round White. Parentage (Gem Russet x A91790-13). Cross was made and selected in Texas.

Uses: Chip.  
Strengths: early bulk  
Weaknesses: rough drop, yield-, sticky stolon CR=2  
Cutting Notes: oversized  
Chip Notes: 3 bruise; 3 vas

TX05249-11W - Round White. Parentage (Gem Russet x A91790-13). Cross was made and selected in Texas.

Uses: Chip.  
Strengths: CR=1  
Weaknesses: yield-, sticky stolon CR=1+  
Cutting Notes:

TX05249-3W - Round White. Parentage (Gem Russet x A91790-13). Cross was made and selected in Texas

Uses: Chip.  
Strengths: CR=1 CR=2  
Weaknesses: yield-  
Cutting Notes: buff, poor internal

TX05249-5W - Round White. Parentage (Gem Russet x A91790-13). Cross was made and selected in Texas

Uses: Chip.  
Strengths: heavy set  
Weaknesses: sticky stolon drop+,  
Cutting Notes: nice round  
Chip Notes: 4 vas; BOT

TX06308-1Y/Y - Oblong Yellow/Yellow. Parentage (POR01PG20-12 x Rio Rojo). Cross was made and selected in Texas

Uses: Fresh.  
Strengths: baby baker heavy set small potato FC=2.0  
Weaknesses: small, heat sprouts, drop sticky stolon drop+,  
Cutting Notes: nice round

TX08378-1R/R - Red/Red. Parentage (POR01PG20-12 x POR02PG26-5) Cross was made and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

TX08378-3R - Red. Parentage (POR01PG20-12 x POR02PG26-5) Cross was made and selected in Texas.

Uses:  
Strengths:  
Weaknesses:  
Cutting Notes:

TX1673-1W - Oblong White. Parentage (Russet Nugget x CS 7802L-2). Cross was made in Texas and selected in Texas.

Uses: Chip.  
Strengths:  
Weaknesses: pointed shape-drop?  
Cutting Notes: nice  
Chip Notes: 12 vas; 1 dark/ZC

TX1674-1W/Y - Long White/Yellow. Parentage (Russet Nugget x Delta Gold). Cross was made and selected in Texas.

Uses: Specialty.  
Strengths: keep, nice shape and skin nice flesh  
Weaknesses: drop FC=3.0  
Cutting Notes: nice shape and skin, light flesh

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: Dual.  
Strengths: blocky BOT, very nice  
Weaknesses: hollow heart  
Cutting Notes: . very nice, BOT

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  
Strengths: nice shape  
Weaknesses: yield-  
Cutting Notes: small

TXNS551 -. Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. TXNS551 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  
Strengths: nice  
Weaknesses: small, bad rep  
Cutting Notes:

Oblong Russet nice but small

TXYG055 - Oblong-White. 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. TXYG055 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

Uses: Specialty

Strengths: yield+ BOT

Weaknesses: , more culls smaller than other strains FC=3.5

Cutting Notes: nice

TXYG057 - Oblong-White. 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. TXYG057 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

Uses: Specialty

Strengths: yield+ BOT, very nice FC=3.5

Weaknesses: some rot lighter yield

Cutting Notes: very nice

TXYG079 - Oblong-White. 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. TXYG079 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

Uses: Specialty

Strengths: larger tubers, yield+ BOT, heavy set, BOT of strains, nice BOT- FC=3.5

Weaknesses:

Cutting Notes: nice

TXYG098 - Oblong-White. 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. TXYG098 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

Uses: Specialty

Strengths: yield+, yield+ BOT+ FC=3.5

Weaknesses: poor shape, yield-oversized

Cutting Notes: very nice

W2133-1 - Round White. Parentage (??). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: drop

Chip Notes: 2 bruise

W2324-1 - Round White. Parentage (Snowden x S438). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: poor shape, drop

Chip Notes: 4 vas; 4 dark

W2717-5 - Round White. Parentage (S440 x ND3828-15). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths:



Weaknesses:  
Chip Notes: 1 MB6 bruise

W2978-3 - Oblong White. Parentage (NY102 x ND2676-10). Cross made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: Rhizoctonia  
Chip Notes: BOT+

W4980-1 - Round White. Parentage (B0692-4 x White Pearl). Cross made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: rot  
Chip Notes: 1 MB4 bruise; 3 vas

W5015-19 - Round White. Parentage (??). Cross made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 7 vas; 1 bruise; BOT

W6483-4 - Round White. Parentage (??). Cross made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: light set, Rhizoctonia  
Chip Notes: BOT

W6803-3 - Round White. Parentage (??). Cross made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: shape-poor internals  
Chip Notes: 2 bruise; 3 vas

W6822-3 - Round White. Parentage (White Pearl x Dakota Pearl). Cross made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses:  
Chip Notes: 2 GH4 vas

W7918-8 - Round White. Parentage (White Pearl x Dakota Pearl). Cross made and selected at the University of Wisconsin.

Uses: Chip  
Strengths:  
Weaknesses: late, drop  
Chip Notes: 6 bruise; 5 vas

W8010-1 - Round White. Parentage (W2507-2 x Dakota Pearl). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: yield-, light set

Chip Notes: 4 MB2 bruise; 3 vas

W8441-2 - Oblong White. Parentage (??). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: large, shape-

Chip Notes: 5 vas; 1 bruise

W8486-6 - Round White. Parentage (??). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 1 GH8 vas; 1 GH

W8539-2 - Round White. Parentage (Bonus x W2114-5). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 3 bruise; 4 vas

W8586-8 - Round White. Parentage (??). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: late, drop

Chip Notes: 2 vas17 vas

W8587-4 - Round White. Parentage (W1773-7 x Liberator). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: Rhizoctonia

Chip Notes: 7 vas

W8597-2 - Round White. Parentage (??). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 6 vas

W8603-1 - Oblong White. Parentage (W2128-8 x Dakota Pearl). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses:

Chip Notes: 4 vas

W8615-11 - Round White. Parentage (??). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths:

Weaknesses: early, small

Chip Notes: 12 vas

W8615-5 - Round White. Parentage (W2309-7 x Dakota Pearl). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths: heavy set

Weaknesses:

Chip Notes: 11 vas; 2 bruise

W8639-3 - Round White. Parentage (W921 x Dakota Pearl). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths: heavy set

Weaknesses: small

Chip Notes: 9 vas

W9075-1 - Round White. Parentage (??). Cross made and selected at the University of Wisconsin.

Uses: Chip

Strengths: early bulk, large

Weaknesses:

Chip Notes: 2 bruise

WIMN 04855-02 - Round White. Parentage (??). Cross was made and selected at the University of Minnesota .

Uses: Chip

Strengths:

Weaknesses: shape-rough, deep eyes, Rhizoctonia, drop

Chip Notes: BOT

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: Specialty.

Strengths: Attractive yellow flesh tubers with red eyes, good yield, resistant to mild mosaic, moderately resistant to PLRV.

Weaknesses: Can exhibit some feathering, Susceptible to PVY and common scab, hollow heart and internal heat necrosis can be a problem, Plant establishment is irregular, particularly from basal end seed pieces.

Cutting Notes: BOT,

Appendix B. Parentage of potato varieties or selections-2010.

Variety or Selection	Parentage
Ackersegen	Hindenburg x Allerfruheste
Adora	Pimura x Alcmaria
Agria	Quarta x Semlo
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
Banana	
Beacon Chipper	??
Binje	Munstersen x Fransen
Boulder	MS702-80 x NY88
Caesar	Monalisa x Rop B 1176
Carola	
Carrera	
Century	A6789-7 x A6680-5
Chieftain	la1027-18 x La1354
Chipeta	WNC612-13 x Wischip
Climax	Binje x Record
Courage	
Dakota Jewel	ND2223-8R x ND649-4R
Dark Red Norland	Redkote x ND626
Day-9	
Delikat	

Variety or Selection	Parentage
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
Estima	
Fabula	
Florissant	Premiere x VK 69-491
Fortuna	
Foxton	Irene x Maris Piper
German Butter Ball	
Golden Sunburst	
Granola	3333/60 x 267 04
Green Mountain	Dunmore x Excelsior
Hertha	Dijkhuis61-133 x Konst62-374
Ilong	
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	
Klondyke Rose	
Krasaua	Visnovske Rohlic x B53
La Rouge	LaSoda x Progress
Latona	Jaerla x Nicola
Magic Molly	Open pollinated seed ball from Red Beauty
Maris Piper	
Mazama	ND1196-2R x Redsen

Variety or Selection	Parentage
MegaChip	Wischip x FYF85
Molli	
Mondial	Spunta x Ve 66-295
Morning Gold	Olinda x Y 68-4-103
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
Penta	Bellona x Estima
Pimpernel	
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
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

Variety or Selection	Parentage
Saginaw Gold	MS321-38 x Michibonne
Sangre	Viking x A6356-9
Sangre-10	Viking x A6356-9
Sante	SVPY66-13-636 x AM66-42
Satina	Puntila x 99 73
Shepody	Bakeking x F58050
Sierra Gold™	Krantz x Delta Gold
Snowden	B5141-6 x Wischip
Stampede Russet	BR7091-1 x Lemhi Russet
Strobrawa	MPI55 957/54 x Mira
Super Red	
Ukama	Marijke x Sirtema
Urgenta	Furore x Katahdin
Valisa	
Viking	Redskin x Nordak
Vivaldi	TZ 77-148 x Monalisa
Vokal	Primura x Rheinhort
Winema	Redsen x ND1196-2R
Yellow Finn	
Yukon Gold	W5279-4 x NorGleam
Numbered Clones	
A0008-1TE	Blazer Russet x A95109-1
A00188-3C	A91790-13W x Dakota Pearl
A00206-1C	AC87340-2 x Dakota Pearl
A00286-3Y	NDA5507-3Y x A89655-5DY
A00324-1	A95038-1 x GemStar Russet
A00466-1LBC	AO97042-19 x Dakota Pearl
A01010-1	A92303-7 x A96004-8
A01143-3C	COA95070-8 x Chipeta
A02515-2	EGAO9702-2 x Clearwater Russet

Variety or Selection	Parentage
A03471-7C	Dakota Diamond x A98399-1C
A03913-101LBY	A96895-54 x WHA99-4156-1
A05463-5C	Alturas x PA99N2-1
A-23	Superior x Snowden
A-32	Superior x Snowden
A-74	Superior x Snowden
A91814-5	NDA2031-2 x Ivory Crisp
A97066-42LB	AWN86514-2 x A86102-6
A98345-1	Ranger R x Premier
A99326-1PY	Agria x COA94019-5R
A99331-2RY	Agria x COA94019-5R
A99433-5Y	Chipeta x MSG274-3
AC00206-2W	AC87340-2 x Dakota Pearl
AC01151-5W	COA96142-7 x NDA2031-2
AC03433-1W	A94322-8C x COA96141-4
AC03452-2W	A98423-1C x COA96141-2C
AC99375-1RU	AWN86514-2 x A89384-10
AF4139-1	AHX5076 x AF1953-4
AF4147-1	B0654-8 x ND860-2
AF4148-1	Liberator x W2504-9
AF4149-1	MSG227-2 x Dakota Pearl
AF4157-6	Yankee Chipper x Dakota Pearl
AF4240-3	SC9512-4 x AF290-5
AF4240-5	SC9512-4 x AF290-5
AF4240-6	SC9512-4 x AF290-5
AF4252-1	MN99352-2 x AF290-5
AF4252-3	MN99352-2 x AF290-5
AF4254-2	A8469-5 x AF290-5
AF4307-1	A97070-51LB x A95162-1
AF4363-2	A91790-13 x W2309-7



Variety or Selection	Parentage
AF4363-5	A91790-13 x W2309-7
AF4369-2	W3145-5 x Ivory Crisp
AO00057-2	A91048-3 x A93116-3BSR
AO96305-3	A91018-6 x A89152-4
AOMN06150-02	??
AOTX01178-1R	ND5084-3R x Winema
AOTX02060-1Ru	A97201-4 x A93157-6LS
AOTX06016-1Ru	A99031-1TE x A98104-4
AOTX06026-1Ru	A99034-2E x AONDTX95249-1Russ
AOTX06048-1Ru	Blazer Russet x A00082-6
AOTX06077-1Ru	A84118-3 X A9014-2
AOTX06116-1Ru	A99134-1 x AONDTX95249-1Russ
AOTX91861-4R	Red LaSoda X ND2224-5R
AOTX93483-1R	NDO2686-6R X AD82705-1R
AOTX95265-1Ru	A89216-9 x A86102-6
AOTX95265-3Ru	A89216-9 x A86102-6
AOTX95265-4Ru	A89216-9 x A86102-6
AOTX95295-1W	A89804-7 x Ranger Russet
AOTX95309-3W	A9055-8LS x A89163-3LS
AOTX96075-1Ru	A84118-3 x A89384-10
AOTX96084-1Ru	A8792-1 X A86102-6
AOTX96208-1Ru	A9057-7 x A91194-3
AOTX96216-2Ru	A89216-9 x A86102-6
AOTX96265-2Ru	A90621-4 X A84180-8
AOTX98096-1Ru	Shepody x A92158-3
AOTX98152-3Ru	A88338-1 X A9201-6
AOTX98202-1Ru	A9201-6 X A9014-2
ATC00293-1W/Y	Agria x TXA1655-1DY
ATTX00289-5R/Y	NDA5507-3 X TXA1655-1DY
ATTX00289-6Y/Y	NDA5507-3 X TXA1655-1DY

Variety or Selection	Parentage
ATTX01178-1R	ND5084-3R x Winema
ATTX01180-1R/Y	ND5084-3R x A92657-1R
ATTX02249-1R	A92653-6R X Granola
ATTX03446-4W	A96920-17 x MSII52A
ATTX03474-1W	NDTX493O-5W X C0A96141-4
ATTX03474-2W	NDTX493O-5W X C0A96141-4
ATTX03474-3W	NDTX493O-5W X C0A96141-4
ATTX03475-10Ru	NDTX4930-5W X NYII2
ATTX03475-6W	NDTX4930-5W X NYII2
ATTX03475-7Ru	NDTX4930-5W X NYII2
ATTX03475-9Ru	NDTX4930-5W X NYII2
ATTX03476-2W	NDTX493O-5W X Chipeta
ATTX03516-2R/Y	A961014-12RY x NDTX4271-5R
ATTX03553-1P/Y	Inca Gold X A096747-2RJY
ATTX05175-1R/Y	A99331-2RY X COA99261-IRY
ATTX05191-3R/Y	Luna323 X Modoc
ATTX06008-2Ru	A920305 x A961098
ATTX06008-6Ru	A920305 x A961098
ATTX06026-1Ru	A99034-2E x AOND95249-1 Russ
ATTX06246-1R	Gogu Valley x Modoc
ATTX06274-2W	C0A99261-IRY x VC1075-IR
ATTX88481-1P/W	A83302-1 x Bison
ATTX88654-2P/Y	PI343201 x Gurney's Purple
ATTX961014-1BR/Y	A90601-2RDY x Mazama
ATTX961014-1R/Y	A90601-2RDY x Mazama
ATTX98444-16R/Y	A83360-9R X T48YF
ATTX98453-11BR	A93490-1R X A91846-5R
ATTX98453-6R	A93490-1R x A91846-5R
ATTX98466-5R/W-R	ND2051-1Ru x A7961-1
ATTX98500-3PW/Y	P94A2-4Y X Granola

Variety or Selection	Parentage
ATX98510-1R/Y	T48YF X A93456-6R
ATX99325-1P	Agria X W1100R
ATX02263-1R/Y	Inca Gold x A92653-6R
ATX03496-3Y/Y	NDTX4271-5R x AO93487-2
ATX03515-1R/Y	A961014-12RY x NDC5281-2
ATX03516-2R	A961014-12RY x NDTX4271-5R
ATX03546-1W/Y	ATA98472-2Y x A97523-1RY
ATX03546-2R/Y	ATA98472-2Y x A97523-1RY
ATX03550-2R	NDTX4271-5R x AO96747-2R/Y
ATX05142-2Ru	Rio Grande R. x A97214-4
ATX05175-3R/Y	A99331-2RY x COA99261-1RY
ATX05188-1Y/Y	Durango Red x Modoc
ATX05202-3W/Y	A00286-3Y x A99433-5Y
ATX06206-6W/Y	A99007-12 x AOA95154-1
ATX06173-2W	A99007-12 x AOA95154-1
ATX06264-1Pinto	A99331-2RY x Durango Red
ATX06264-4R/Y	A99331-2RY x Durango Red
ATX06282-1R/Y	COA99261-1RY x US 147-96 R/Y
ATX06354-1W/Y	COA99261-1RY x US 147-96 R/Y
ATX07144-1R	NorDonna x VC1075-1R
ATX07305-1Y/Y	A99433-5Y x Mila
ATX07365-1W	A01-1131-2 x Melody
ATX84378-6Ru	A79141-9 x ND329-1
ATX85404-8W	Gemchip x ND860-2
ATX91137-1Ru	A81473-2 x A8343-12
ATX9132-2Y	??
ATX9202-3Ru	A8343-12 x A8495-1
ATX9332-12Ru	A8850-1 x A88288-1
ATX97147-4Ru	A79180-10 x A88236-6
ATX98448-6R/Y	A92657-1R X A89655-5DY

Variety or Selection	Parentage
ATX99013-1Ru	A8893-1 x A91186-2
ATX99194-3Ru	A94137-1 x GemStar Russet
B1992-106	Atlantic x Superior
B2492-7	Atlantic x Superior
B2628-4	Atlantic x Superior
BNC202-7	Atlantic x Superior
BNC202-8	Atlantic x Superior
B2724-18	Atlantic x Superior
B2725-8	Atlantic x Superior
B2731-3	Atlantic x Superior
B2731-13	Atlantic x Superior
B2735-12	Atlantic x Superior
B2735-12	Atlantic x Superior
B2746-1	Atlantic x Superior
B2747-5	Atlantic x Superior
B2747-5	Atlantic x Superior
B2776-1	Atlantic x Superior
B-163	Atlantic x Superior
B-166	Atlantic x Superior
B-173	Atlantic x Superior
B-190	Atlantic x Superior
B-191	Atlantic x Superior
B-192	Atlantic x Superior
B-212	Atlantic x Superior
B-237	Atlantic x Superior
B-257	Atlantic x Superior
B-258	Atlantic x Superior
B2721-1	Atlantic x Superior
B2721-10	Atlantic x Superior
B2721-101	Atlantic x Superior

Variety or Selection	Parentage
B2721-105	Atlantic x Superior
B2721-121	Atlantic x Superior
B2721-123	Atlantic x Superior
B2721-13	Atlantic x Superior
B2721-141	Atlantic x Superior
B2721-15	Atlantic x Superior
B2721-159	Atlantic x Superior
B2721-18	Atlantic x Superior
B2721-22	Atlantic x Superior
B2721-40	Atlantic x Superior
B2721-42	Atlantic x Superior
B2721-47	Atlantic x Superior
B2721-63	Atlantic x Superior
B2721-64	Atlantic x Superior
B2721-67	Atlantic x Superior
B2721-73	Atlantic x Superior
B2721-78	Atlantic x Superior
B2721-93	Atlantic x Superior
B2721-96	Atlantic x Superior
B-282	Atlantic x Superior
B-286	Atlantic x Superior
B-290	Atlantic x Superior
B-3	Atlantic x Superior
B-70	Atlantic x Superior
B-89	Atlantic x Superior
B-94	Atlantic x Superior
BTX1544-2W/Y	BO811-13 x Yukon Gold
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

Variety or Selection	Parentage
C-118	Superior x Atlantic
C-172	Superior x Atlantic
C-27	Superior x Atlantic
C-57	Superior x Atlantic
C-99	Superior x Atlantic
CO00188-4W	A90490-1W x BC0894-2W
CO00197-3W	A91790-13W x NDTX4930-5W
CO00270-7W	BC0894-2W x A91790-13W
CO00412-5W/Y	German Butterball x TX1523-1RU/Y
CO01399-10P/Y	VC1015-5P/Y x Colorado Rose
CO02024-9W	A91790-13W x CO95051-7W
CO02024-9W	A91790-13 x CO95051-7W
CO02033-1W	A91790-13W x S440
CO02033-1W	A91790-13 x S440
CO02321-4W	NY115W x BC0894-2W
CO02321-4W	NY115 x BC0894-2W
CO03243-3W	BC0894-2W x A91790-13
CO03273-7W	CO95051-7W x A91790-13
CO111f2-1 P/P	??
CO98067-7RU	Silverton Russet x TC1675-1
CO99053-3RU	AC91014-2 x Silverton Russet
CO99053-4RU	AC91014-2 x Silverton Russet
CO99076-6R	AC91848-1 x Rio Colorado
CO99100-1RU	AC93047-1 x Silverton Russet
CO99256-2R	Rio Colorado x Colorado Rose
COMN07-W112BG1	??
COMN07-W203BG1	??
COTX00104-7R	ND3574-5R x C086218-2
COTX01403-4R/Y	VC1015-7R/Y x Winema
COTX02377-1W	Dakota Pearl x Chipeta

Variety or Selection	Parentage
COTX03187-1W	AC89536-5RU x A9304-3
COTX03270-1W	CO95007-1RU x AC96052-1RU
COTX03303-1W	CO96083-7RU X Silverton Russet
COTX04050-1P/P	CO97215-2P/P x CO97306-2P/P
COTX04178-1Y/Y	ATC98444-1R/Y x CO99076-1R
COTX04188-3R/Y	ATC98515-1R/Y x ATC98444-1R/Y
COTX04193-2R/Y	ATC98515-1R/Y x ND3574-5R
COTX04267-1R/Y	CO98012-5R x CO97232-2R/Y
COTX05037-4Y/Y	AC99330-1P/Y x CO97227-2P/PW
COTX05082-2P/P	CO97227-2P/P x WMSG147-3
COTX05095-1Ru	CO99045-1W/Y X AO96164-1
COTX05095-2Ru/Y	CO99045-1W/Y X AO96164-1
COTX05211-4R	CO98012-5R x CO00278-4R
COTX05211-7R	CO98012-5R x CO00278-4R
COTX05261-1R/Y	CO00379-2R/Y x CO00278-4R
COTX06052-2Ru	A81386-1 x A9014-2
COTX06169-3R	AC00274-2R x CO01377-1R
COTX06221-1Ru	CO00208-1RU X CO98067-7RU
COTX06235-2R/Y	CO01288-2R X CO01399-11R/Y
COTX06240-2R/Y	CO01377-1R X CO01399-11R/Y
COTX06245-3R/Y	CO01399-11R/Y X A83350-9R
COTX07009-7Ru	AC97306-1RU x CO99053-3RU
COTX07009-8Ru	AC97306-1RU x CO99053-3RU
COTX07018-2Ru	AC99375-1RU x CO99053-3RU
COTX07024-1Ru	AC00033-2RU x CO98067-7RU
COTX07024-2Ru	AC00033-2RU x CO98067-7RU
COTX07024-4Ru	AC00033-2RU x CO98067-7RU
COTX07054-2R	ATDC9801-3P x CO99076-6R
COTX07154-1R	Rodeo x CO99076-6R
COTX07168-1Ru	A89219-7RU x AC97306-1RU

Variety or Selection	Parentage
COTX07172-1W	A90045-7RU x AC98043-2RU
COTX07179-2Ru	A93157-6LS x CO98067-7RU
COTX07199-2Ru	AC97044-4RU x Blazer Russet
COTX07206-1Ru	AC97306-1RU x CO99028-2RU
COTX07299-1Ru	CO99100-1RU x AC97306-1RU
COTX07354-1Ru	PA99N82-4 x CO99100-1RU
COTX07380-2Ru	Blazer Russet x CO99100-1RU
COTX07382-1W/Y	Blazer Russet x Innovator
COTX07382-2W/Y	Blazer Russet x Innovator
COTX90046-1W	AC83064-6 x NDO1496-1
COTX94216-1R	Purple Peruvian x Chipeta
COTX94218-1R	Red Ruby x Red Gold
FL1833	??
FL1867	FL 162 x Atlantic
FL1922	FL 1207 x AUK
FL2048	??
FL2053	??
MN2586	??
MN2588	??
MN99380-1	??
MSH228-6	MSC127-3 x OP
MSK061-4	MSC148-A x Dakota Pearl
MSK409-1	MSC148-A x Liberator
MSL007-B	MSA105-1 x MSG227-2
MSL292-A	Snowden x MSH098-2
MSM037-3	MSE230-6 x Dakota Pearl
MSM246-B	MSE274-A x NY115
MSN170-A	MSI055-5 x MSG227-2
MSP270-1	MSNT-1 x MSG227-2
MSP368-1	MSH095-4 x MSF099-3



Variety or Selection	Parentage
MSP459-5	Marcy x NY121
MSP515-2	Marcy x Missaukee
MSQ035-3	MSG227-2 x Missaukee
MSQ086-3	Onaway x Missaukee
MSQ089-1	A91790-13 x Missaukee
MSQ130-4	Boulder x MSJ456-4Y
MSQ134-5	MSG004-3 x Missaukee
MSQ279-1	Boulder x Pike
MSR021-2	MSJ316-A x Missaukee
MSR036-5	MSL766-1 x Liberator
MSR041-3	Liberator x Missaukee
MSR058-1	Megachip x MSJ319-1
MSR061-1	Megachip x NY121
MSR089-9Y	MSJ319-1 x OP
MSR127-2	MSJ167-1 x MSG227-2
MSR128-4Y	MSJ167-1 x MSJ126-9Y
MSR131-2	MSK061-4 x Pike
MSR148-4	MSI152-A x Dakota Pearl
MSR161-2	Stirling x MSJ126-9Y
MSR169-8Y	Pike x MSJ126-9Y
MSS026-2	SJ-Y7 x MSJ126-9Y
MSS165-2Y	MSM188-1 x MSL159-AY
MSS927-1	ND4350-3 x ND7799C-1
ND039209C-3	??
ND049219-5	??
ND060597AB-6	??
ND060618cB-3	??
ND060618CB-4	??
ND060686C-4	??
ND060713-13	??

Variety or Selection	Parentage
ND060753-8	??
ND6620-14	??
ND7192-1	??
ND7799c-1	??
ND8304-2	??
ND8307C-3	??
ND8331Cb-2	??
ND8331Cb-3	??
ND8456-1	??
ND8559-20	??
NDA060396AB-1C	Etb 6-5-5 x ND8229-3
NDMN03324-4	??
NDMN04910-01	??
NDMN04911-01	??
NDMN07-B302BG1	??
NDMN07-B309BG1	??
NDMN07-B312BG1	??
NDMN07-B318WG1	??
NDMN07-B322BG1	??
NDMN07-B326BG1	??
NDMN07-GF056BG1	??
NDMN07-GF059WG1	??
NDMN07-W159BG1	??
NDTX039190-1R	ND 8089-2R x ND 4659-5R
NDTX049265-2WRSP/Y	ATND 99331-2 Pinto x Dakota Rose
NDTX050025-1W/Y	ND 8083b-1pY x ATND 98459-1RY
NDTX050070-1R	ND 8375b-6R x ND 8347CB-12R
NDTX050169-2W/Y	ND 8555-8R x R 89063-84
NDTX050184-1R/Y	ND 028577-6RY x ND 8555-8R

Variety or Selection	Parentage
NDTX050239-2R	ND 028685-1R x ND 8512C-17R
NDTX050264-1W	ND 028770B-4R x ND 028678-1RY
NDTX059632-1W	Dakota Pearl x ND 7377Cb-1
NDTX059759-3Pinto/Y	ATND 99331-2 Pinto x ND 7834-2P
NDTX059828-2W	ND 4659-5R x ND 8524B-1R
NDTX059886-1Y/Y	ND 7192-1 x ND 8178-1Y
NDTX059979-1W	ND 7519-1 x Dakota Diamond
NDTX059997-2W	ND 7799c-1 x ND 860-2
NDTX059997-6W	ND 7799c-1 x ND 860-2
NDTX059997-7W	ND 7799c-1 x ND 860-2
NDTX060700C-1W	NDTX 7560C-4 x NDTX 7192-1
NDTX060725-1P	ND 7834-2P X ND 7192-1
NDTX060868-3Y/Y	ND 028587-1RY X ND 039051B-1R
NDTX071084C-2W	ND 6809C-3 x ND 860-2
NDTX071109C-1W	ND 7226C-17 x ND 860-2
NDTX071112-5W	ND 7818-1Y x ND 860-2
NDTX071217CB-1W	ND 028801CB-1 x ND 039004B-2Y
NDTX071258B-1R	ND 039035B-9R x ND 4659-5R
NDTX071407B-2R	ND 049351B-5R x T 10-12
NDTX081451CB-1Y/Y	Dakota Diamond x Gala
NDTX4271-5R	NDTX9-1068-1R x ND2050-1R
NDTX4784-7R	ND3574-5R x ND2050-1R
NDTX5003-2R	ND3504-3R x ND2050-1R
NDTX5438-11R	ND4339-10R x ND4269-9R
NDTX731-1R	ND169-10R x ND9476-5
NDTX8303-1W	ND 860-2 x White. Pearl
NDTX8305-1W	ND 2471-8 x White. Pearl
NDTX8305-2W	ND 2471-8 x White. Pearl
NDTX8305-3W	ND 2471-8 x White. Pearl
NY138	??

Variety or Selection	Parentage
NYD40-35	NY121 x NY115
NYD40-50	NY121 x NY115
NYE106-4	NY128 x MARCY
NYE50-8	V101-9 x NY115
NYF47-3	White Pearl x Marcy
NYF47-5	White Pearl x Marcy
NYF48-4	White Pearl x NY115
NYF57-3	White Pearl x NY115
NYG20-11	Andover x NY115
NYG20-12	Andover x NY115
NYG20-13	Andover x NY115
NYG20-28	Andover x NY115
NYG20-30	Andover x NY115
NYG20-31	Andover x NY115
NYG20-32	Andover x NY115
NYG20-33	Andover x NY115
NYG20-4	Andover x NY115
NYG20-41	Andover x NY115
NYG20-44	Andover x NY115
NYG20-5	Andover x NY115
NYG20-53	Andover x NY115
NYG20-55	Andover x NY115
NYG20-56	Andover x NY115
NYG20-58	Andover x NY115
NYG20-63	Andover x NY115
NYG86-1	NY138 x C956-1
NYG87-3	NY139 x MARCY
NYG89-1	NY139 x C956-1
NYG89-2	NY139 x C956-1
PA00N14-2	PA95A14-22 x

Variety or Selection	Parentage
PA99N2-1	AO84275-3G6582-3
PA99N82-4	PA95B4-149 x Russ bulk
POR03PG80-2	Satina x PA99P35-1
PTTX05PG07-1W	POR01PG22-1 x OR00067-7
TC02072-3P/P	All Blue x NDC4069-1R/R
TX03196-1W	NDTX4748-7R x Adora
TX04237-6Y/Y	Russet Nugget x A92030-5
TX05249-10W	Gem Russet x A91790-13
TX05249-11W	Gem Russet x A91790-13
TX05249-3W	Gem Russet x A91790-13
TX05249-5W	Gem Russet x A91790-13
TX06308-1Y/Y	POR01PG20-12 X Rio Rojo
TX08378-1R/R	POR01PG20-12 x POR02PG26-5
TX08378-3R	POR01PG20-12 x POR02PG26-5
TX1673-1W	Russet Nugget x CS 7802L-2
TX1674-1W/Y	Russet Nugget x Delta Gold
TXA549-1Ru	ND9687-3Ru x ND9852-1Ru
TXNS410	ND9526-4Ru x ND9687-5Ru
TXNS551	ND9526-4Ru x ND9687-5Ru
TXYG055	W5279-4 x Norgleam
TXYG057	W5279-4 x Norgleam
TXYG079	W5279-4 x Norgleam
TXYG098	W5279-4 x Norgleam
W2133-1	??
W2324-1	Snowden x S438
W2717-5	S440 x ND3828-15
W2978-3	NY102 x ND2676-10
W4980-1	B0692-4 x White Pearl
W5015-19	??
W6483-4	??

Variety or Selection	Parentage
W6803-3	??
W6822-3	White Pearl x Dakota Pearl
W7918-8	White Pearl x Dakota Pearl
W8010-1	W2507-2 x Dakota Pearl
W8441-2	??
W8486-6	??
W8539-2	Bonus x W2114-5
W8586-8	??
W8587-4	W1773-7 x Liberator
W8597-2	??
W8603-1	W2128-8 x Dakota Pearl
W8615-11	??
W8615-5	W2309-7 x Dakota Pearl
W8639-3	W921 x Dakota Pearl
W9075-1	??
WIMN 04855-02	??

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