

Texas Potato Breeding Report 2013



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College Station and Lubbock

The Texas Potato Breeding and Variety Development Program virus tests and produces mini tubers of its clone bank every two years. This is to verify that the 90+ clones are still virus-free and true-to-type.

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Acknowledgements

This work was conducted at the Texas A&M AgriLife Research and Extension Center at Lubbock, the Department of Horticultural Sciences, College Station, and at field sites near Weslaco, Springlake, and Dalhart. Financial support for this work was partially provided by the Texas Department of Agriculture/Texas A&M AgriLife Research, USDA-CSREES-SCRI (Project #2009-51181-20176), and USDA/NIFA Special Research Grants Program - Potato Research (Agreement # 2009-34141-20139).

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

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Brain Charlton, Klamath Falls, Oregon

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Rick Knowles and Mark Pavek, Pullman, Washington

Chuck Brown and Roy Navarre, Prosser, Washington

Southwestern Regional Cooperators:

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Ralph Child, Childstock Farms, Malone, New York

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Mitch Jorde, Jorde Certified Seed, Cando, North Dakota

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

General Supply Contributors:

Bruce Barrett and Cliff Black, Springlake Potato Sales, Springlake, Texas
Grant Monie, Lucia Carpio, and Brian Zens, CCS Farms, Dalhart, Texas

Co-workers:

We would like to express our gratitude for the significant contributions of Technical Assistant Mike Jenson, graduate student Sean Thompson, and student workers Angel Chappel, Elizabeth Villas, Brianna Lewis, Craig Black, Mike Vestal, and Sidney Glass. Special thanks to Jim Winder.

Prefix Source Key for Numbered Advanced Selections:

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

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

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

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

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

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

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

AOTX = AORTX = cross made in Aberdeen, Idaho, 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

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

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

MN = cross made and selected in Minnesota

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

ND = cross made and selected in North Dakota

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

NDC = cross made in North Dakota and selected in Colorado

NDO = cross made in North Dakota and selected in Oregon

NDTX = cross made in North Dakota and selected in Texas

NY = cross made and selected in New York

OR = cross made and selected in Oregon

PA = cross made and selected in Prosser, Washington

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

TX = cross made and selected in Texas

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

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

TXND = cross made in Texas and selected in North Dakota

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

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

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

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

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

Mission Statement

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

Impact Statement

Since the inception of the Texas Potato Breeding and Variety Development Program in 1973, 2,309,985 seedlings have been grown for selection in Texas, from which 10,956 original selections have been made. Fourteen improved varieties have been developed/co-developed and/or released from this program. Most of the russet potatoes grown in Texas in 2013 were to the improved Texas Russet Norkotah strains. When this program was initiated in 1973, the average yield of the summer crop in Texas was about 200 Cwt. /A. From 2008 through 2012 the average summer crop yield in Texas was reported to be the highest in the nation among the 11 summer crop producing states. In addition, the farm gate value of the crop has grown from <\$20 million to about \$100 million, with an annual economic impact to the state in is estimated to exceed \$250 million. Of the new varieties developed/released in the US in the last 10 years, those developed by the Texas program collectively ranked fifth in total seed acreage entered into certification in 2013. Certified seed acreage of the Texas Russet Norkotah strain selections continued to increase in 2013.

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 2013 were conducted at College Station, with field plantings at Weslaco, Springlake, and Dalhart. Insecticides were applied in Springlake and Dalhart.

Our approach has been to start with the most advanced material, include multi-location and multi-season evaluations, and verification of findings under controlled caged conditions. Source material has included named varieties, materials from the Southwestern and Western Regional Trials, as well as the USBP National Chip Processor Trial. Texas Breeding Program selections have also been included. Trial locations have included Dalhart, Springlake, and Weslaco. Some 53,000 tubers, representing more than 800 varieties/selections, have been fresh-cut evaluated or chipped for ZC. Cage verification studies have been conducted since 2008 in Weslaco. In 2013, two ZC studies were reported. The first study aimed to characterize two potato cultivars differing in disease susceptibility. Field cage studies were conducted near Springlake, TX to evaluate the impact of ZC on yield and chip quality over time. The progression of ZC disease development based on chip appearance was distinctly different between the susceptible and resistant cultivars. Cultivar-specific responses to ZC, based on average tuber weight and chip evaluations, suggest improved ZC resistance is attainable. All the included treatment cages exhibited ZC symptoms, suggesting that five psyllids per plant were sufficient for transmitting ZC. Symptoms were observed in both the chip1 and chip2 samples, and most of the tubers in the treatment cages did not sprout.

Average tuber weight of Waneta in treatment cages continued to increase and did not differ from the control. However, the average tuber weight of Atlantic in treatment cages stopped increasing following infection, whereas the average tuber weight of the control continued to increase. This difference in phenotypic response indicates that tuber weight of a resistant variety is less dramatically affected by Lso infection.

The purpose of chip2 was to determine whether tubers develop more pronounced symptoms with storage. For Waneta, ZC symptoms in the chips often became apparent only in the second frying. Atlantic showed more pronounced symptoms than Waneta in both chip1 and chip2. The control cages for both Waneta and Atlantic had no ZC in chip1; however, the chip2 control samples were mostly scored as having symptoms. This might have been due to an increase in reducing sugars, and in the case of Atlantic, heat necrosis might have confounded scoring.

We typically do not see sprouting from infected tubers and consider this a diagnostic symptom. Nearly all infected tubers had not sprouted, whereas most of the controls had sprouted.

The progression of ZC disease development based on chip appearance was distinctly different between Waneta and Atlantic. For Atlantic, chip symptoms were more pronounced than those of Waneta for both chip1 and chip2. ZC infection did not affect the average tuber weight of Waneta, as evidenced by no difference in average tuber weight between the control and treated plants. However, in Atlantic, average tuber weight stopped increasing after infection as compared to the Atlantic control, demonstrating a more significant impact on this susceptible variety. Differences in cultivar-specific responses to ZC, based on average tuber weight and chip evaluations, suggest improved ZC resistance is attainable.

Ongoing studies are focusing on using LAMP PCR to verify symptoms seen in the chip and sprouting data. ZC screening for tolerance/resistance was continued in 2013.

The second study was performed in hoop cages at two locations – Weslaco and Springlake, TX. Eighty-two varieties/selections associated with specific traits were cage evaluated for ZC. Clones selected for evaluation were obtained from other potato programs and the potato Germplasm collection. An emphasis was placed on material with strong resistance to late blight (*Phytophthora infestans*) due to reported associated resistances. We continue to cooperate and facilitate the research of several other ZC-related programs throughout the state.

Weslaco-Promising entries from the most advanced USBP Fast Track Chip Trial included MSL292-A, W2717-5, and W2324-1. Promising entries (14) from the Texas 2012 USBP Fast Track Chip Trial (NCPT) were AF4157-6, W8832-1Y, and MSL007-B. Promising entries from the ZC evaluation of 2013 Texas entries (12) in the USBP Fast Track Chip Trial (NCPT) were NDTX060700C-1W, NDTX081648CB-1W, NDTX081648CB-4W, and NDTX071217CB-1W/Y. Promising entries from the Verification of virus-free selections previously identified in Texas as ZC tolerant/resistant were NDTX059828-2W and TX05249-10W. The promising entry for ZC clonal selections from Dalhart – 2007 was ZCS4. Promising entries for verification of 13 selections identified in 2011 in Oregon as ZC tolerant/resistant are AOR07781-2, AOR07783-1, and AOR07793-1. None of the ZC evaluations of nine late blight resistant European varieties were promising. The promising entry for ZC Evaluation of Cold Sweetening Resistant Lines was 00-3315-11.

Springlake- Promising entries among the 2013 Texas Entries in the USBP Fast Track Chip Trial (NCPT) included NDTX081648CB-1W, NDTX081648CB-4W, NDTX071109C-1W, and NDTX060700C-1W. Promising entries among the 13 selections identified in 2011 in Oregon as ZC tolerant/resistant included AOR07781-2, AOR07783-1, and AOR07793-1, the first two were also best of trial in Weslaco. Entries 00-3315-2 and 00-3315-11 chipped the lightest but none of the cold sweetening entries showed promise. Promising entries among the advanced late blight selections/varieties from Idaho included AO5214-3LB, and AO2449-100LB.

Eighty-two varieties/selections associated with specific traits were cage evaluated for ZC. ZC expression was similar in both Weslaco and Springlake for most entries evaluated. Two russet selections (AOR07781-2 and

AOR07783-1) from Oregon showed promise and will be further evaluated. Three (MSL292-A, W2717-5, and W2324-1) of the eight most-advanced selections in the USPB Fast Track Chip Trial appeared to exhibit resistance/tolerance to ZC. Clonal selection for ZC resistance/tolerance did not appear to be successful. High performing entries from these trials will be re-evaluated in replicated (5 reps) cage trials in 2014.

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

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

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

Our program cooperated with a number of others at both the state and national levels. In Texas, we cooperated with Dr. Don Henne in Weslaco. At College Station, we cooperated with Drs. Cecilia Tamborindeguy (Entomology), Dennis Gross (Plant Pathology and Microbiology) and Elizabeth Pierson and Julien Levy (Horticulture). At Springlake and Dalhart, we had cooperative trials with Dr. Ron French. We conducted major trials at Springlake and Dalhart. We also had cooperative studies with Drs. John Trumble and Sean Prager at Riverside, CA, Joe Munyaneza at Wapato, WA, and Rich Novy at Aberdeen, ID. A very successful Field Day was conducted in July at Springlake and was well attended by many, including the above mentioned cooperators.

Acknowledgements

Financial support for this work was partially provided by the Texas Department of Agriculture/Texas A&M AgriLife Research, USDA-CSREES-SCRI (Project #2009-51181-20176), and USDA/NIFA Special Research Grants Program - Potato Research (Agreement # 2012-34141-2309). Significant in-kind support was generously provided by Bruce Barrett, Springlake Potato Sales, and Milt Carter, CSS Farms.

Introduction

Program Summary

The Texas Potato Breeding and Variety Development Program used two locations in the 2013 growing season (Table 1). The first planting was near Springlake on 29 March to 1 April and harvested on 5, 12, and 19 August. This location included sixteen replicated trials, first generation seedlings for selection, and a spacing/fertility trial with two advanced Texas selections and check varieties. The second planting was near Dalhart on 14 to 16 May and harvested on 2, 3, 8, 9, 29, and 30 September. Seventeen replicated trials, a seed increase nursery, and first year seedlings for selection were planted at this site. The Texas program entered one selection (ATTX01180-1R/Y) in the Southwestern Regional Trials conducted in Texas, Colorado, and two sites in California. The Texas Program also had one selection (AOTX98152-3Ru) in the Western Regional Russet trial and one selection (NDTX5438-11R) in the Western Regional Red/ Specialty Trial. These trials were conducted at multiple locations in six western states.

A major focus of the program in 2013 continued on Zebra Chip Research, with emphasis on varietal tolerance/resistance. The program also continued to stress virus testing, clean-up, and minituber multiplication of a number of selected clones. A successful field day was held on 24 July at Springlake, and was well attended by over 50 growers and Zebra Chip collaborators from Mexico to Canada.

Seedling program

In 2013, 65, 412 first year seedling tubers, resulting from 463 different parental combination or families (crosses), were grown for selection. Some 18,048 seedling tubers were planted on the Barrett Farm near Springlake while 47,364 were planted at CSS Farm near Dalhart. Four hundred and forty original selections were made from this material (Figure 1). In 2012, 42 clones were intercrossed at Lubbock to produce 88 families.

The 2013 first year seedling tubers from Texas (11,489) were grown from true seed during the fall of 2011 at College Station. These seed were from crosses made in Lubbock, Madison, WI and Aberdeen, ID. The remaining seedling tubers were provided by Rich Novy, Idaho (7,003), Solomon Yilma, Oregon (20,240), David Holm, Colorado (20,380), and Susie Thompson, North Dakota (6,300).

Texas also sent second and third-size seedling tubers to Idaho (5180), Colorado (4,756), North Dakota (4,239), and Wisconsin (2,551) for first year selections.

Table 1. Trial locations, name of trial, number of entries, and number of plots evaluated in 2013.

Springlake			Dalhart		
Trial	# of Entries	# of Plots	Trial	# of Entries	# of Plots
Field day Russets (not reported)	86	86	National Chip	221	221
Field day Red/Specialty(not reported)	51	51	Western and Southwestern Regional Chip	14	56
Western and Southwestern Regional Chip	14	56	Western and Southwestern Regional Russet	31	124
Western and Southwestern Regional Russet	31	124	Western and Southwestern Regional Red	9	36
Western and Southwestern Regional Red	9	36	Western and Southwestern Regional Red/Yellow	10	40
Western and Southwestern Regional Red/Yellow	10	40	Western and Southwestern Regional White/Yellow	10	40
Western and Southwestern Regional White/Yellow	10	40	Southwestern Regional Purple/ Purple Flesh	8	32
Southwestern Regional Purple/ Purple Flesh	3	12	Commercial Variety Chip	9	18
Texas Advanced Chip Selection	12	48	Texas Advanced Chip Selection	26	97
Texas Advanced Russet Selection	17	68	2012 Chip Selection	123	123
Texas Advanced Red Selection	7	28	Texas Advanced Russet Selection	38	109
Texas Advanced White/Yellow Selection	5	20	2012 Russet Selection	168	168
Texas Advanced Small Potato Selection	15	60	Texas Advanced Red Selection	9	26
Texas Advanced Fingerling Selection	5	20	2012 Red Selection	24	24
Total	138	689	Texas Advanced Red/Yellow Selection	3	12
			2012 Red/Yellow Flesh Selection	22	22
			Texas Advanced White/Yellow Selection	5	18
			2012 White/Yellow Flesh Selection	25	25
			Texas Advanced Small Potato Selection	23	104
			2012 Small Potato Selection	18	18
			Texas Advanced Fingerling Selection	14	62
			2012 Fingerling Potato Selection	4	4
			2012 Red Red Flesh Selection	2	2
			Total	816	1381
			Total Entries and Plots	954	2070

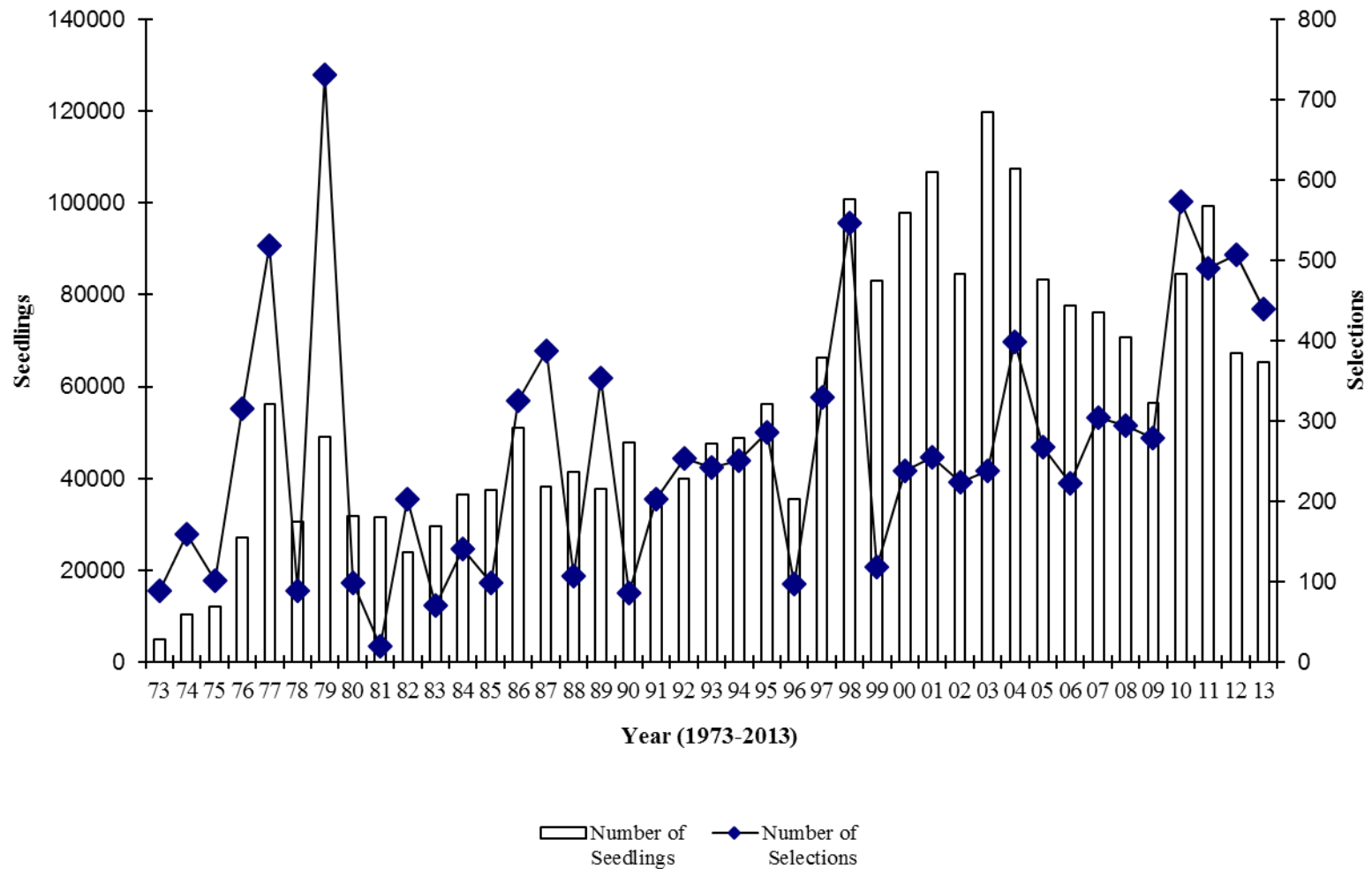


Figure. 1. Number of first year seedling tubers grown for original selection and number of selections made since the inception of the Texas Potato Variety Development Program.

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 138 advanced selections/varieties were tested in replicated and non-replicated trials near Springlake, and 954 entries were evaluated near Dalhart. A total of 2,070 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, 30,578 entries have been evaluated (Figure 2). Findings from the Texas Potato Variety Development Program trials have resulted in the release of several improved varieties which have contributed significantly to the competitiveness, sustainability, and profitability of the Texas potato industry.

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

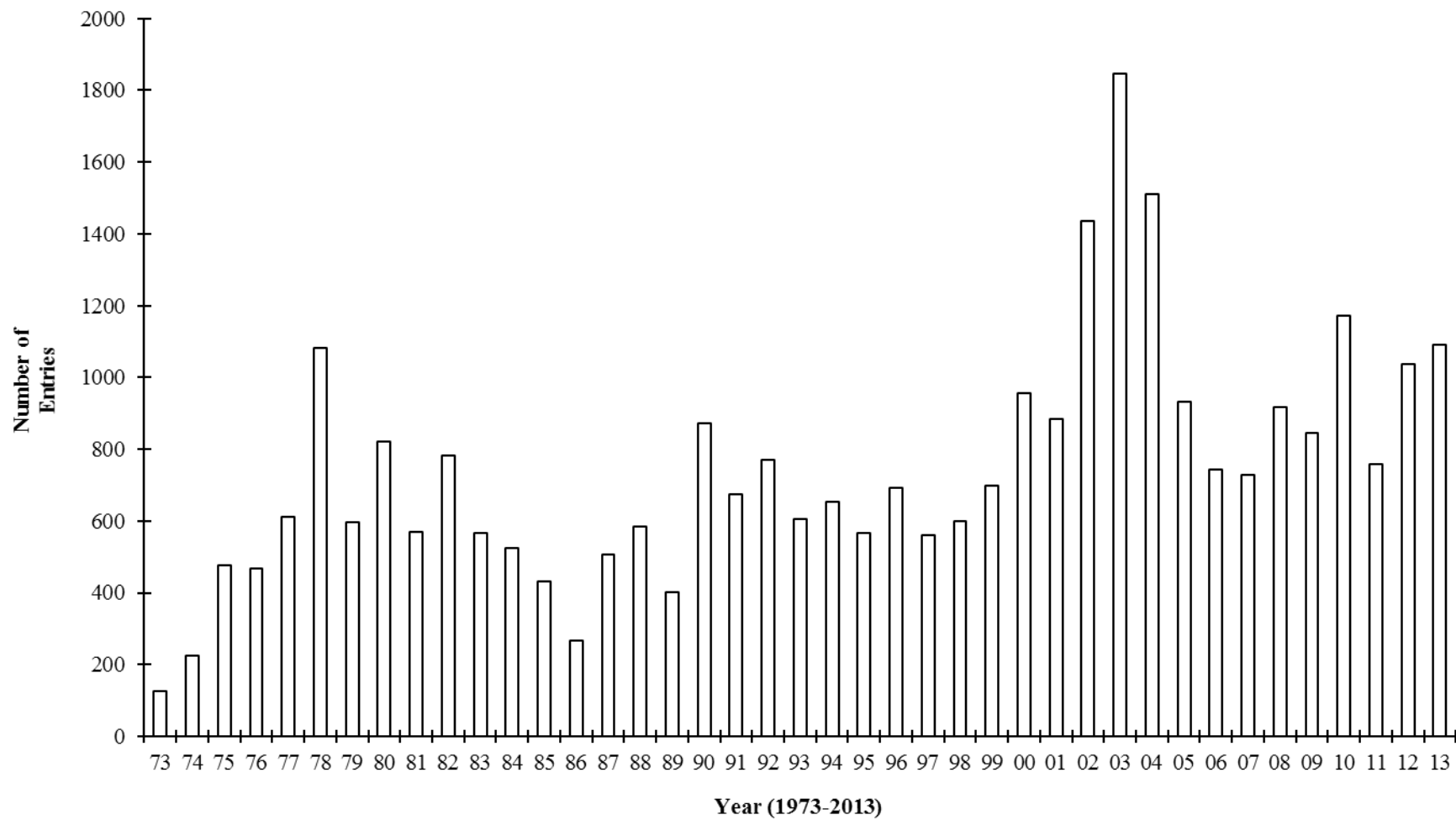


Figure 2. Number of varieties and advanced selections tested for their adaptability to Texas environmental conditions each year since the inception of the Texas Potato Variety Development Program in 1973.

Springlake Trials, 2013

Summary of growing conditions:

The trials were planted near Springlake on 29 March to 1 April and harvested on 5, 12, and 19 August. Standard cultural practices for the area were used (Table 2). These trials were subjected to above average precipitation for the June, July and August. Temperatures were slightly higher than normal.

Trials conducted:

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

Table 2. Environmental and cultural inputs for the 2013 Springlake Trials.		
Location:		
Springlake, Texas		
Soil Type		
Tivoli Fine Sand		
Seed Source		
Oregon Colorado, Nebraska, Texas, North Dakota, Idaho, and Canada		
Date:		DAP
Planted	March 29, 2013	
Vines Killed (Red, Red/Yellow)	July 26, 2013	117
Vines Killed (Chip, White/Yellow)	July 26, 2013	117
Vines Killed (Russet)	July 31, 2013	122
Harvested (Red, Red/Yellow, White/Yellow)	August 5, 2013	126
Harvested (Chip)	August 19, 2013	140
Harvested (Russet)	August 12, 2013	133
Plot Information:		
Size of plots	21'	
Spacing between hills	9"	
Spacing between rows	36"	
Hills per plot	28	
Number of rows	2	
Number of reps	4	
Method of Harvest:		
Two-row drag digger, with hand pick up		
Fertilizer:		
Application:		
155-34-34# per acre		
Irrigation:		
Center Pivot		
Seed Treatment Applied:		
Cruiser Maxx		
Insecticide:		
Movento, Agrimek, Beleaf, Venom		
Fungicides Applied:		
Scala, Bravo		
Herbicides Applied:		
Sencor, Roundup, Dual		
Environmental Factors:		
These trials were subjected to above average precipitation for the June, July and August. Temperatures were slightly higher than normal. The plots were subjected to a freeze on May 3rd and 4th.		

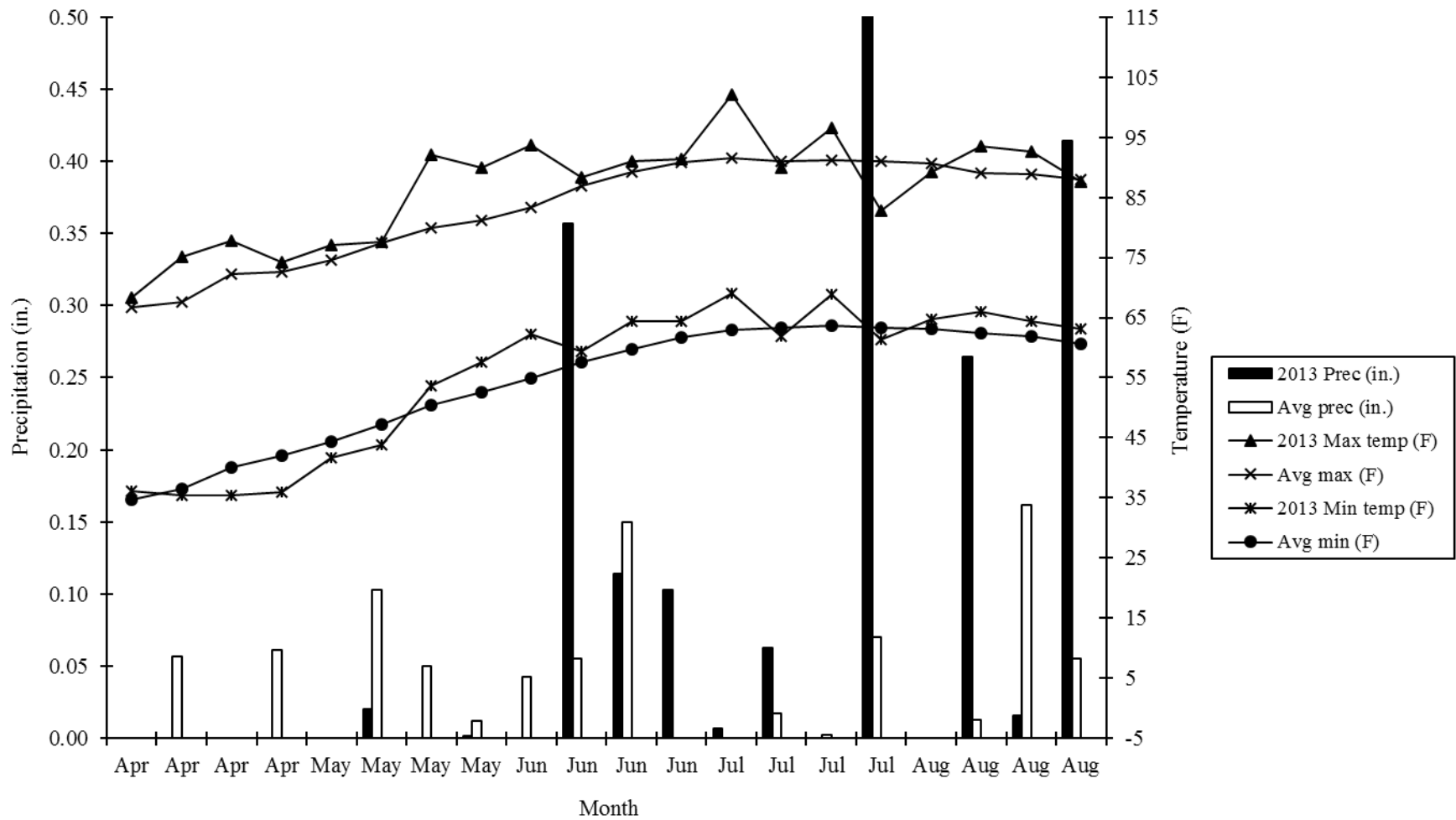


Figure 3. Weekly minimum/maximum temperatures and precipitation for the 2013 growing season near Springlake, Texas compared to the average minimum/maximum temperatures and precipitation (1949-2013).

Western and Southwestern Regional Trials

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

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

Western and Southwestern Regional Chip Trial

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

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

- The outstanding entries for this trial, based on general rating and yield were CO00206-2W and Waneta
- CO00206-2W had the highest ratio of good chips (Tables f).
- CO00206-2W had the highest total yield. Waneta had the highest marketable yield (Table 1a)
- FL1867 had the highest yield of 10-18 oz. tubers. While AC01151-5W had the highest yield of <4 oz. tubers. (Table 1a).
- FL1867 had the highest percentage of U.S. No. 1's
- CO02024-9W and A01143-3C had the highest percentage of < 4 oz. tubers (Table 1b).
- FL1867 had the highest specific gravity (Table 1b).
- Chipeta had 18% vascular discoloration and Atlantic had 13% internal brownspot (Table 1d).

Comments on entries:

- AC00206-2W Round White heavy set, Rhizoctonia, large tubers, hollow heart, CR=2
- Waneta Oblong White nice, nice flesh, BOT, CR=1
- AC01151-5W Oblong White nice, heavy set++, some rough, small+, bad rep, CR=2
- CO03243-3W Oblong White large tuber, deep nose, Rhizoctonia, stem attachment, protruding navel, CR=1
- AC03452-2W Oblong White drop, knobs, deep nose, protruding navel, rough, CR=1

- CO02321-4W Oblong White nice, Rhizoctonia, CR=1
 - AC05153-1W Oblong White poor shape, pointed, large tubers, nice flesh, drop, CR=1
 - CO02033-1W Oblong White rough, ugly, poor shape, drop++, drop, CR=2
 - Atlantic Oblong Buff variable size, poor internals, hollow heart, CR=1
 - CO02024-9W Round White light set+, Rhizoctonia, small+, heavy set+, BOT-, CR=2
 - CO05061-6W Oblong White poor skin color, small+, CR=1
 - FL1867 Oblong White nice flesh, poor shape, drop, CR=1
 - Chipeta Oblong White light set, nice shape, rough+, ugly, pear shaped, oversized, stem attachment, CR=2
 - A00188-3C Round White light set, small, drop, CR=1
 - AC03433-1W Oblong White large tubers, light russet, heavy set, light set, low yield, CR=1
- ¹CR=chip color rating 1=light to 3= dark

Summary:

Overall, the outstanding entry based on general rating, marketable yield, and chip quality was AC00206-2W.

Springlake
Table 1a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 15 entries in the Western and Southwestern Regional
Chip Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
AC00206-2W	WR	324.5	242.5	97.0	95.2	50.3	0.0	81.9	0.0	4.0	4.0
Waneta	WR	306.8	247.4	97.7	98.7	51.0	0.0	58.1	1.4	4.0	4.3
AC01151-5W	WR	300.8	143.1	96.6	46.5	0.0	0.0	155.9	1.7	4.0	3.6
CO03243-3W	WR	287.5	240.4	67.8	128.4	44.3	0.0	47.0	0.0	3.8	3.7
AC03452-2W	WR	281.8	207.8	60.8	119.3	27.7	0.0	64.3	9.7	3.0	3.2
CO02321-4W	WR	278.5	225.4	97.5	95.4	32.5	0.0	51.9	1.2	4.0	3.5
AC05153-1W	SW	250.1	190.0	67.1	81.6	41.3	0.0	58.4	1.7	3.2	3.7
CO02033-1W	WR	244.8	163.4	65.3	84.7	13.3	0.0	69.8	11.6	3.0	2.6
Atlantic	WR	241.0	191.9	63.1	101.8	27.0	0.0	49.1	0.0	3.5	4.0
CO02024-9W	WR	228.9	88.2	69.8	18.3	0.0	0.0	140.7	0.0	4.5	2.8
CO05061-6W	SW	224.7	139.5	78.0	54.5	7.1	0.0	85.2	0.0	3.6	3.0
FL1867	WR	201.0	175.1	42.9	75.7	56.5	0.0	25.9	0.0	3.6	3.5
Chipeta	WR	187.4	151.4	42.4	64.6	44.4	0.0	33.5	2.4	3.0	3.1
A00188-3C	WR	170.8	92.5	56.5	34.9	1.0	0.0	77.8	0.5	2.5	3.2
AC03433-1W	WR	143.1	116.0	46.7	60.7	8.6	0.0	26.4	0.7	3.8	3.2
Average		244.8	174.3	69.9	77.4	27.0	0.0	68.4	2.1	3.6	3.4
L.S.D. (.05)		53.1	44.7	27.3	30.0	23.9		29.8	5.2		0.5

¹ 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 15 entries in the Western and Southwestern Regional Chip Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
AC00206-2W	WR	74.4	29.8	29.0	15.6	0.0	25.6	0.0	1.071	15.2	Round	White
Waneta	WR	80.5	31.8	32.2	16.4	0.0	19.1	0.4	1.068	14.7	Oblong	White
AC01151-5W	WR	47.1	31.7	15.4	0.0	0.0	52.3	0.6	1.065	14.1	Oblong	White
CO03243-3W	WR	84.5	23.7	44.4	16.3	0.0	15.5	0.0	1.071	15.2	Oblong	White
AC03452-2W	WR	73.6	21.5	42.5	9.6	0.0	22.8	3.7	1.059	13.1	Oblong	White
CO02321-4W	WR	80.8	35.2	34.4	11.2	0.0	18.7	0.5	1.079	16.6	Oblong	White
AC05153-1W	SW	76.4	26.8	32.5	17.1	0.0	23.0	0.7	1.077	16.3	Oblong	White
CO02033-1W	WR	66.9	26.6	34.6	5.7	0.0	28.5	4.7	1.071	15.2	Oblong	White
Atlantic	WR	79.3	26.7	41.4	11.3	0.0	20.7	0.0	1.076	16.0	Oblong	Buff
CO02024-9W	WR	38.5	30.6	7.9	0.0	0.0	61.5	0.0	1.067	14.4	Round	White
CO05061-6W	SW	62.0	34.2	23.9	3.9	0.0	38.0	0.0	1.071	15.2	Oblong	White
FL1867	WR	87.3	21.3	37.6	28.3	0.0	12.7	0.0	1.082	17.1	Oblong	White
Chipeta	WR	81.4	22.1	33.2	26.0	0.0	17.2	1.4	1.057	12.6	Oblong	White
A00188-3C	WR	54.0	32.2	20.9	0.9	0.0	45.6	0.3	1.071	15.1	Round	White
AC03433-1W	WR	80.8	32.4	42.3	6.0	0.0	18.7	0.5	1.067	14.4	Oblong	White
Average		71.2	28.4	31.5	11.2	0.0	28.0	0.8	1.070	15.0		
L.S.D. (.05)		10.0	9.0	9.3	10.5		9.6	2.1	0.006	1.0		

Springlake
Table 1c. Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 15 entries in the Western and Southwestern Regional Chip Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
AC00206-2W	WR	5.7	4.9	2.5	96	2.0	3.7	3.7	3.9	0
Waneta	WR	5.1	5.0	2.1	99	1.5	3.6	4.0	4.2	3
AC01151-5W	WR	8.5	3.1	2.3	96	1.5	3.7	4.8	4.8	0
CO03243-3W	WR	5.0	6.0	1.6	81	1.5	3.7	4.8	4.6	0
AC03452-2W	WR	5.0	4.8	2.2	99	1.5	3.7	4.8	4.8	0
CO02321-4W	WR	5.0	5.2	1.5	89	1.6	3.7	4.4	4.5	1
AC05153-1W	SW	4.4	5.1	2.0	96	2.0	3.7	3.4	3.7	11
CO02033-1W	WR	5.5	4.4	2.3	86	1.6	3.5	4.3	4.5	1
Atlantic	WR	4.1	5.0	2.4	98	1.5	3.9	4.6	4.7	1
CO02024-9W	WR	8.0	2.9	1.7	85	1.5	3.6	4.5	4.6	0
CO05061-6W	SW	4.8	4.0	1.6	96	1.5	3.4	3.5	3.6	11
FL1867	WR	3.0	6.1	1.5	92	1.9	3.8	3.5	3.6	9
Chipeta	WR	3.0	5.7	1.9	93	1.5	4.0	4.9	5.0	0
A00188-3C	WR	4.1	3.5	3.2	100	1.6	3.9	4.4	4.4	0
AC03433-1W	WR	3.1	4.9	1.2	79	1.5	3.1	4.1	4.3	1
Average		4.9	4.7	2.0	92	1.6	3.6	4.2	4.3	3
L.S.D. (.05)		1.4	0.8	0.3	13	0.2	0.3	0.5	0.5	7

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 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 15 entries in the Western and Southwestern Regional Chip Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
AC00206-2W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	10	0	0	0
Waneta	WR	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	3	3	0	0
AC01151-5W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	3	0	3	0
CO03243-3W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	5	0	0	0
AC03452-2W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	5	3
CO02321-4W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	5	0	0	0
AC05153-1W	SW	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
CO02033-1W	WR	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	8	0
Atlantic	WR	1.0	2.0	2.5	4.0	2.5	5.0	5.0	5.0	5.0	4.0	13	0	0	5
CO02024-9W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	3	0
CO05061-6W	SW	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	0	3
FL1867	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	5	0
Chipeta	WR	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	18	0
A00188-3C	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	3	0	3	3
AC03433-1W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	5	0
Average		1.0	2.3	1.1	4.0	1.1	5.0	5.0	5.0	5.0	4.0	3	0	3	1
L.S.D. (.05)												4	ns	ns	ns

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Springlake Notes and general rating for all reps of 15 entries in the Western and Southwestern Regional Chip Trial grown near Springlake, Texas-2013.
Table 1e.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
AC00206-2W	WR	heavy set, , ,	heavy set, Rhizoctonia, large tubers, hollow heart, ,	4, 4, 4, 4	4, 3.8, 4, 4
Waneta	WR	nice, , ,	nice, nice flesh, BOT, , ,	4, 4, 4, 4	4, 4.8, 4.5, 3.8
AC01151-5W	WR	nice, , ,	heavy set++, some rough, small+, bad rep,	4, 4, 4, 4	4, 3.8, 3, 3.5
CO03243-3W	WR	large tuber, deep nose, , ,	Rhizoctonia, stem attachment, protruding navel, ,	3.8, 3.8, 3.8, 3.8	3.6, 3.8, 3.7, 3.7
AC03452-2W	WR	drop, , ,	knobs, deep nose, protruding navel, rough, ,	3, 3, 3, 3	3.2, 3.5, 3.4, 2.7
CO02321-4W	WR	nice, , ,	Rhizoctonia+, , ,	4, 4, 4, 4	3.4, 3.4, 3.4, 3.6
AC05153-1W	SW	poor shape, pointed, drop, , ,	large tubers, nice flesh, , ,	3.2, 3.2, 3.2, 3.2	3.6, 3.7, 3.7, 3.7
CO02033-1W	WR	drop, , ,	rough, ugly, poor shape, drop++, ,	3, 3, 3, 3	3, 2.5, 2.7, 2.3
Atlantic	WR	variable size, , ,	poor internals, hollow heart, , ,	3.5, 3.5, 3.5, 3.5	4, 4.4, 4, 3.5
CO02024-9W	WR	heavy set, BOT-, , ,	light set+, Rhizoctonia, small+, heavy set+, ,	4.5, 4.5, 4.5, 4.5	2.5, 2.5, 3, 3
CO05061-6W	SW	poor skin color, , ,	small+, , ,	3.6, 3.6, 3.6, 3.6	2.8, 2.8, 3, 3.5
FL1867	WR	, , ,	nice flesh, poor shape, drop, , , rough+, ugly, pear shaped, oversized, light set,	3.6, 3.6, 3.6, 3.6	3.5, 3.5, 3.5, 3.5
Chipeta	WR	light set, nice shape, , ,	stem attachment,	3, 3, 3, 3	3.5, 2.5, 3, 3.5
A00188-3C	WR	drop, , ,	small, light set, , ,	2.5, 2.5, 2.5, 2.5	3.6, 3.3, 3, 3
AC03433-1W	WR	large tubers, light russet, heavy set, , ,	light set, low yield, , ,	3.8, 3.8, 3.8, 3.8	3.8, 3, 3.5, 2.5

Springlake
Table 1f. Specific gravity, percent solids, chip color rating, good chip bad chip ratio, notes, and percentage of Zebra Defect at chipping at grading of 15 entries in the Western and Southwestern Regional Chip Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Gravity	% Solids	Chip Color ²	Good/Bad Chip Ratio	Notes ³	Percent Zebra Defect
AC00206-2W	WR	1.071	15.2	2	33/6	4 SE 2	0%
Waneta	WR	1.068	14.7	1	15/22	19 SE 2, 2 Dark	0%
AC01151-5W	WR	1.065	14.1	2	26/13	9 SE 1	0%
CO03243-3W	WR	1.071	15.2	1	29/11	3 SE 1	0%
AC03452-2W	WR	1.059	13.1	1	24/17	16 SE 2	0%
CO02321-4W	WR	1.079	16.6	1	24/17	12 SE 2	0%
AC05153-1W	SW	1.077	16.3	1	27/14	11 SE 2	0%
CO02033-1W	WR	1.071	15.2	2	20/20		0%
Atlantic	WR	1.076	16.0	1	13/26	15 SE 3, 1GH, 1BS	3%
CO02024-9W	WR	1.067	14.4	2	25/15	9 SE 2	3%
CO05061-6W	SW	1.071	15.2	1	26/14	11 SE 2	0%
FL1867	WR	1.082	17.1	1	27/13	6 SE 1	0%
Chipeta	WR	1.057	12.6	2	6/33	16 SE 2	0%
A00188-3C	WR	1.071	15.1	1	23/16	3 SE 1	0%
AC03433-1W	WR	1.067	14.4	1	31/10	5 SE 2	0%

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

¹1=poor, 5=excellent

²1=light, 3+=very dark

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

Western and Southwestern Regional Russet Trial

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

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

- CO05189-2RU had the highest total yield, while ATX91137-1Ru had the highest marketable yield. AOTX98152-3Ru, and TXA549-1Ru received best of trial designations and high general ratings. (Table 2a and 2e).
- CO05189-3RU and A02062-1TE had the highest yield of over 10 oz. tubers (Table 2a).
- CO05040-1RU had the highest yield of <4 oz. tubers. Shepody had the highest yield of culls/No.2 tubers (Table 2a).
- A02062-1TE had the highest percentage of marketable yield (Table 2b).
- A02424-83LB had the highest percentage yield of <4 oz. tubers. Shepody had the highest percentage yield of culls/No. 2 tubers (Table 2b).
- The highest specific gravity was recorded for A02138-2 (Table 2b).
- CO05068-1RU, POR06V12-3, STP00-10, A02424-83LB, CO05175-1RU, and AC00395-2RU were the latest maturing clones. ATX91137-1Ru, CO05024-11RU, Russet Norkotah, and Stampede Russet were the earliest maturing entries (Table 2c).

Comments on entries:

- CO05189-2RU Oblong Russet blocky, heavy set and yield, rough, Rhizoctonia, nice flesh, attractive tubers, feathering
- ATX91137-1Ru Long Russet pointed, raised eyes on large tubers, heavy set, yield++, blocky
- A02138-2 Long Russet large tubers, light russet, heavy yield, Rhizoctonia, bad rep, nice+, blocky, nice shape, fat tubers
- AC00395-2RU Oblong Russet too round, blocky++, feathering, Rhizoctonia, drop
- CO05068-1RU Long Russet late, poor netting, poor shape, heat sprouts, rough, blocky+, too round, culls+, feathering, drop+
- CO05110-6RU Oblong Russet some pointing, light set, blocky, rough, Rhizoctonia, large tubers

- TXA549-1Ru Oblong Russet fat tubers, blocky, growth cracks, BOT
- A03158-2TE Long Russet poor shape+, skinny, rough+, drop
- AOTX98152-3Ru Oblong Russet nice, large tubers, blocky+, bad rep, Rhizoctonia, BOT+ *
- A002060-3 Oblong Russet light set, nice shape, blocky, feathering, pointed to stem end
- CO05149-3RU Long Russet heavy set, poor net
- Shepody Long Russet pointed, curved, white skin, poor shape, long, skinny, drop
- CO05040-1RU Oblong Russet small, pointed, nice shape, heavy set, Rhizoctonia, small+, poor net
- CO05132-2RU Oblong Russet blocky, light set, feathering
- CO03276-5RU Long Russet skinny, drop+, small, feathering, thin, light set
- CO05189-3RU Oblong Russet poor shape, light set, very large tubers, size parent?, rot, pointed, large tubers are rough, blocky, drop
- CO05175-1RU Long Russet pointed, long skinny, too long, curved, drop
- OR05039-4 Long White thin, poor netting, stem end rot, white skin, poor skin finish, ugly, pointed, skinny, too long, drop
- A02062-1TE Long Russet large tuber, raised eyes, pointed, long and curved, poor shape+, bad rep, too long, drop
- POR06V12-3 Oblong Russet light set, blocky+, nice shape, feathering, low yield, nice,
- CO05152-5RU Oblong Russet knobs, poor shape, small, heavy set, blocky,
- A02507-2LB Long Russet some pointing, blocky, nice shape, fat tubers, drop
- Russet Norkotah Long Russet bad rep, some curved, some very nice shape, poor shape, long
- CO05024-11RU Oblong Russet blocky, rough nice flesh, small, stem end rot, light set, drop
- Stampede Russet Oblong Russet some pointing, blocky+, light set, fat tubers, nice shape,
- STP00-10 Oblong Russet very white flesh, feathering, rough, white skin, poor shape and skin
- Russet Burbank Oblong Russet low yield, blocky, nice shape+, light set
- A02424-83LB Oblong Russet poor yield, small, greenhead, poor shape, light set, drop
- Ranger Russet Oblong Russet poor shape, curved, drop
- A001114-4 Long Russet light set, nice shape, pointed+, curved, nice flesh, bad rep, drop
- AOTX96216-2Ru Oblong Russet size parent, growth cracks, nice rep, Rhizoctonia, low yield, knobs on large tubers, drop

Summary:

ATX91137-1Ru was the outstanding entry. CO05189-2RU, AOTX98152-3Ru, and TXA549-1Ru also deserve mention.

Springlake Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 31 entries in the Western and Southwestern Regional
 Table 2a. Russet Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
CO05189-2RU	SW	379.1	299.9	70.4	171.6	57.9	0.0	60.2	19.0	4.0	3.8
ATX91137-1Ru	TXCO	365.9	306.6	66.6	127.9	112.2	6.1	40.1	13.1	4.0	3.9
A02138-2	WR	289.7	214.5	61.7	116.5	36.3	0.0	63.6	11.6	4.0	3.9
AC00395-2RU	WR	289.4	192.7	73.3	116.3	3.1	0.0	90.8	5.9	3.0	3.1
CO05068-1RU	SW	284.7	179.3	71.4	91.1	16.8	0.0	68.3	37.2	3.2	2.9
CO05110-6RU	SW	269.7	220.4	29.2	111.8	79.3	8.1	33.7	7.4	3.7	3.7
TXA549-1Ru	TXCO	262.2	200.0	37.0	104.9	58.1	10.9	44.1	7.3	4.5	4.1
A03158-2TE	WR	256.3	213.8	30.9	101.1	81.8	6.2	27.8	8.5	2.5	3.0
AOTX98152-3Ru	WR	253.9	192.0	50.3	103.0	38.7	8.5	47.7	5.7	4.5	3.8
AO02060-3	WR	248.9	206.2	33.2	120.5	52.5	2.8	38.9	1.0	3.8	3.7
CO05149-3RU	SW	247.9	167.3	53.1	100.4	13.8	0.0	74.5	6.1	3.7	3.4
Shepody	WR	241.1	116.7	37.2	62.6	16.9	0.0	73.5	51.0	3.5	2.3
CO05040-1RU	SW	240.8	123.6	58.9	58.3	6.4	0.0	113.4	3.8	2.8	2.9
CO05132-2RU	SW	238.5	169.6	44.4	95.4	29.7	0.0	66.6	2.4	3.3	3.5
CO03276-5RU	WR	226.4	153.7	48.4	79.2	26.1	0.0	72.6	0.2	3.0	3.4
CO05189-3RU	SW	223.5	141.4	12.6	54.5	74.3	65.2	8.3	8.6	3.5	2.7
CO05175-1RU	SW	223.2	167.3	21.6	78.0	67.8	5.0	38.9	11.9	3.0	2.9
OR05039-4	WR	219.5	184.6	33.2	97.0	54.5	2.1	25.8	7.1	2.0	2.5
A02062-1TE	WR	203.3	178.4	3.5	51.2	123.8	10.7	7.6	6.6	3.0	3.4
POR06V12-3	WR	201.0	151.9	44.1	75.2	32.7	3.8	43.2	2.1	3.5	3.8
CO05152-5RU	SW	200.9	125.1	57.9	67.2	0.0	0.0	68.6	7.1	3.2	2.9
A02507-2LB	WR	193.4	153.3	37.7	79.2	36.5	0.0	32.7	7.4	3.5	3.9
Russet Norkotah	WR	190.0	140.5	25.8	61.9	52.9	11.8	25.1	12.6	3.5	3.1
CO05024-11RU	SW	181.2	117.4	39.2	54.1	24.0	0.0	50.5	13.3	2.8	2.7
Stampede Russet	TXCO	178.6	135.3	33.9	80.6	20.9	2.1	39.8	1.4	3.8	3.6
STP00-10	Canada	171.0	90.9	43.7	39.4	7.8	0.0	78.5	1.6	3.3	2.8
Russet Burbank	WR	167.7	129.3	51.0	57.6	20.7	0.0	35.4	2.9	3.5	3.7
A02424-83LB	WR	165.3	71.7	28.9	41.0	1.9	0.0	80.0	13.5	1.5	2.4
Ranger Russet	WR	159.4	108.6	23.5	70.9	14.2	0.0	41.0	9.9	3.0	3.0
AO01114-4	WR	125.7	101.5	25.4	58.8	17.3	0.0	22.5	1.7	3.8	3.2
AOTX96216-2Ru	TXCO	104.2	84.4	4.1	33.9	46.3	0.0	1.4	18.5	3.0	3.4
Average		244.4	178.1	43.0	90.4	44.7	5.7	50.2	10.3	3.4	3.3
L.S.D. (.05)		24.8	27.0	17.4	26.0	22.8	11.0	19.4	13.6		0.3

¹ 1=very poor to 5= excellent

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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 31 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
CO05189-2RU	SW	78.8	18.3	45.3	15.3	0.0	15.9	5.3	1.067	14.5	Oblong	Russet
ATX91137-1Ru	TXCO	84.0	18.3	34.9	30.8	1.7	11.1	3.3	1.061	13.4	Long	Russet
A02138-2	WR	74.4	21.6	40.8	12.0	0.0	21.3	4.3	1.082	17.1	Long	Russet
AC00395-2RU	WR	66.6	26.4	39.1	1.1	0.0	31.3	2.1	1.072	15.4	Oblong	Russet
CO05068-1RU	SW	62.9	25.0	32.0	5.8	0.0	23.6	13.5	1.072	15.3	Long	Russet
CO05110-6RU	SW	81.6	10.7	41.9	29.0	3.1	12.4	2.9	1.073	15.5	Oblong	Russet
TXA549-1Ru	TXCO	75.9	14.0	39.6	22.4	4.2	17.0	2.9	1.071	15.3	Oblong	Russet
A03158-2TE	WR	82.7	11.6	39.8	31.3	2.4	11.2	3.7	1.067	14.5	Long	Russet
AOTX98152-3Ru	WR	75.8	19.6	41.0	15.2	3.1	18.7	2.4	1.071	15.2	Oblong	Russet
AO02060-3	WR	83.2	13.1	48.1	21.9	1.2	15.1	0.4	1.071	15.2	Oblong	Russet
CO05149-3RU	SW	67.5	21.3	40.6	5.6	0.0	30.1	2.3	1.073	15.6	Long	Russet
Shepody	WR	48.6	15.3	26.4	6.9	0.0	30.4	21.0	1.072	15.4	Long	Russet
CO05040-1RU	SW	51.5	24.5	24.1	2.9	0.0	46.9	1.7	1.067	14.5	Oblong	Russet
CO05132-2RU	SW	70.8	19.2	39.7	11.9	0.0	28.1	1.1	1.064	13.9	Oblong	Russet
CO03276-5RU	WR	68.1	21.6	34.7	11.7	0.0	31.9	0.1	1.066	14.3	Long	Russet
CO05189-3RU	SW	63.0	6.1	25.0	31.9	28.5	4.1	4.4	1.061	13.4	Oblong	Russet
CO05175-1RU	SW	74.9	9.6	34.7	30.6	2.2	17.4	5.5	1.063	13.8	Long	Russet
OR05039-4	WR	83.7	15.3	44.1	24.3	0.8	12.0	3.5	1.062	13.6	Long	White
A02062-1TE	WR	90.0	2.1	28.2	59.8	3.9	3.6	2.5	1.067	14.5	Long	Russet
POR06V12-3	WR	75.2	21.8	37.2	16.3	2.0	21.7	1.1	1.074	15.6	Oblong	Russet
CO05152-5RU	SW	62.1	28.0	34.1	0.0	0.0	34.8	3.1	1.066	14.3	Oblong	Russet
A02507-2LB	WR	79.6	19.4	41.4	18.9	0.0	16.6	3.8	1.067	14.5	Long	Russet
Russet Norkotah	WR	74.9	14.1	33.8	27.1	5.9	12.3	7.0	1.065	14.1	Long	Russet
CO05024-11RU	SW	64.7	22.4	29.8	12.4	0.0	28.6	6.8	1.066	14.3	Oblong	Russet
Stampede Russet	TXCO	76.1	18.7	45.1	12.3	1.5	21.5	0.9	1.059	13.1	Oblong	Russet
STP00-10	Canada	52.6	24.4	23.4	4.8	0.0	46.4	1.0	1.063	13.7	Oblong	Russet
Russet Burbank	WR	77.1	31.5	35.1	10.5	0.0	21.6	1.3	1.073	15.5	Oblong	Russet
A02424-83LB	WR	43.3	16.8	25.6	0.9	0.0	47.9	8.8	1.068	14.7	Oblong	Russet
Ranger Russet	WR	68.8	14.6	44.9	9.2	0.0	25.2	6.0	1.075	15.9	Oblong	Russet
AO01114-4	WR	81.2	21.6	45.2	14.4	0.0	17.7	1.1	1.074	15.7	Long	Russet
AOTX96216-2Ru	TXCO	82.4	4.1	33.1	45.3	0.0	1.4	16.2	1.062	13.6	Oblong	Russet
Average		72.7	17.5	36.8	18.3	2.4	20.7	4.2	1.068	14.6		
L.S.D. (.05)		9.1	7.6	10.2	8.8	4.6	7.8	6.4	0.005	0.9		

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Table 2c. Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 31 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
CO05189-2RU	SW	6.2	5.8	2.9	89	2.1	3.3	3.8	4.2	6
ATX91137-1Ru	TXCO	4.7	6.8	2.0	96	1.8	3.2	3.4	3.9	11
A02138-2	WR	5.4	5.3	2.4	88	2.0	3.5	3.8	4.0	1
AC00395-2RU	WR	4.8	5.0	2.6	100	1.5	3.9	4.7	4.8	0
CO05068-1RU	SW	4.9	4.9	2.1	99	1.5	3.9	4.8	4.8	0
CO05110-6RU	SW	4.9	7.5	2.3	67	2.0	2.9	4.1	3.8	1
TXA549-1Ru	TXCO	3.6	6.4	1.7	95	2.0	3.5	3.6	3.9	4
A03158-2TE	WR	6.2	6.7	2.0	53	1.5	3.0	4.3	4.2	0
AOTX98152-3Ru	WR	4.0	6.0	1.8	90	1.9	3.2	3.8	4.0	1
AO02060-3	WR	4.1	5.7	2.3	91	1.8	3.6	4.3	4.5	4
CO05149-3RU	SW	5.2	4.0	2.8	98	2.0	3.9	3.6	3.9	14
Shepody	WR	5.4	3.7	2.4	99	2.0	3.5	3.9	4.3	4
CO05040-1RU	SW	6.2	3.2	2.2	100	1.6	3.7	3.7	4.2	5
CO05132-2RU	SW	4.2	4.7	2.4	100	1.9	4.0	4.0	4.3	1
CO03276-5RU	WR	5.0	4.0	2.3	95	1.5	3.6	3.7	4.3	9
CO05189-3RU	SW	2.0	10.9	2.1	88	1.5	3.2	3.8	3.9	6
CO05175-1RU	SW	3.4	5.8	3.1	94	1.5	3.9	4.7	4.8	0
OR05039-4	WR	4.8	5.9	2.2	70	1.5	3.3	4.7	4.4	0
A02062-1TE	WR	4.3	9.5	2.3	46	2.0	1.6	3.7	3.7	5
POR06V12-3	WR	4.9	5.4	2.0	63	1.5	2.9	4.8	4.8	0
CO05152-5RU	SW	4.7	3.8	2.1	93	1.8	3.3	3.8	4.3	8
A02507-2LB	WR	5.9	6.1	2.4	54	1.5	2.3	4.6	4.4	0
Russet Norkotah	WR	2.7	6.3	1.8	93	1.9	3.4	3.3	3.8	13
CO05024-11RU	SW	3.6	4.8	2.2	88	1.5	3.2	3.4	3.8	11
Stampede Russet	TXCO	3.1	5.0	3.0	96	1.5	3.8	3.3	3.8	18
STP00-10	Canada	4.6	3.4	2.2	93	1.5	3.7	4.8	4.8	0
Russet Burbank	WR	5.9	4.7	2.4	51	1.5	2.8	4.4	4.5	0
A02424-83LB	WR	6.6	2.9	2.0	74	1.5	3.3	4.8	4.8	0
Ranger Russet	WR	3.9	4.5	3.0	78	1.5	3.1	4.6	4.3	0
AO01114-4	WR	2.0	5.5	2.2	93	1.5	3.7	4.0	4.0	6
AOTX96216-2Ru	TXCO	1.5	9.3	1.9	62	1.5	2.6	4.3	4.4	0
Average		4.6	5.7	2.3	86	1.7	3.3	4.0	4.2	5
L.S.D. (.05)		1.5	0.9	0.3	18	0.2	0.5	0.5	0.4	6

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

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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 31 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
CO05189-2RU	SW	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	3.8	0	0	0	0
ATX91137-1Ru	TXCO	1.0	3.6	4.0	3.7	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A02138-2	WR	1.0	3.7	2.9	3.8	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC00395-2RU	WR	1.0	3.3	4.0	4.0	4.0	5.0	5.0	5.0	5.0	3.8	0	0	0	0
CO05068-1RU	SW	1.0	3.5	3.5	4.0	3.6	5.0	5.0	5.0	5.0	3.5	0	0	0	0
CO05110-6RU	SW	1.0	3.6	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXA549-1Ru	TXCO	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A03158-2TE	WR	1.0	4.0	4.0	3.6	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	3
AOTX98152-3Ru	WR	1.0	3.8	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	3
AO02060-3	WR	1.0	3.6	4.0	3.8	3.6	5.0	5.0	5.0	5.0	3.5	0	0	0	0
CO05149-3RU	SW	1.0	3.5	3.5	3.5	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Shepody	WR	1.0	4.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05040-1RU	SW	1.0	3.5	4.0	3.7	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05132-2RU	SW	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	4.0	0	0	5	0
CO03276-5RU	WR	1.0	4.0	4.0	3.7	4.0	5.0	5.0	5.0	5.0	4.1	0	0	0	0
CO05189-3RU	SW	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05175-1RU	SW	1.0	4.0	4.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
OR05039-4	WR	1.0	4.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A02062-1TE	WR	1.0	4.0	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
POR06V12-3	WR	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
CO05152-5RU	SW	1.0	3.3	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A02507-2LB	WR	1.0	3.6	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah	WR	1.0	4.2	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05024-11RU	SW	1.0	3.5	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Stampede Russet	TXCO	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
STP00-10	Canada	1.0	2.8	1.0	4.0	1.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
Russet Burbank	WR	1.0	3.8	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
A02424-83LB	WR	1.0	3.7	3.5	3.7	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Ranger Russet	WR	1.0	4.0	3.0	3.5	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AO01114-4	WR	1.0	4.0	4.0	3.3	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX96216-2Ru	TXCO	1.0	3.6	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	3.7	3.6	3.9	3.5	5.0	5.0	5.0	5.0	4.7	0	0	0	0
L.S.D. (.05)															

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Springlake Notes and general rating for all reps of 31 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2013.
Table 2c.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
CO05189-2RU	SW	, , blocky,	heavy set and yield, rough, , blocky, Rhizoctonia, nice flesh, attractive tubers, feathering	4, 4, 4, 4	3.7, 3.7, 3.8, 3.8
ATX91137-1Ru	TXCO	, pointed, raised eyes on large tubers, ,	heavy set, yield++, blocky, ,	4, 4, 4, 4	4, 3.9, 3.8, 3.8
A02138-2	WR	, , , large tubers, light russet, heavy set	heavy set and yield, Rhizoctonia, bad rep, nice+, blocky, nice shape fat tubers	4, 4, 4, 4	3.7, 3.8, 4, 4
AC00395-2RU	WR	, blocky, drop, ,	, too round, blocky++, feathering, Rhizoctonia,	3, 3, 3, 3	3, 3.5, 3, 3
CO05068-1RU	SW	, , late, poor netting,	poor shape, heat sprouts, rough, , blocky+, too round, culls+, feathering, drop+,	3.2, 3.2, 3.2, 3.2	3, 2.8, 3, 2.8
CO05110-6RU	SW	, , some pointing,	, , light set, blocky, rough, Rhizoctonia, large tubers	3.7, 3.7, 3.7, 3.7	3.7, 3.7, 3.7, 3.7
TXA549-1Ru	TXCO	, , , BOT	good rep, BOT-, fat tubers, , blocky, growth cracks	4.5, 4.5, 4.5, 4.5	4, 3.8, 4.4, 4
A03158-2TE	WR	, drop, ,	poor shape+, skinny, rough+, ,	2.5, 2.5, 2.5, 2.5	3, 3, 3, 3
AOTX98152-3Ru	WR	, BOT+ *, ,	nice, BOT-, large tubers, block+, bad rep, Rhizoctonia	4.5, 4.5, 4.5, 4.5	4, 4, 3.6, 3.5
AO02060-3	WR	, , light set, nice shape,	, , blocky, feathering, pointed to stem end	3.8, 3.8, 3.8, 3.8	3.7, 3.7, 3.5, 3.7
CO05149-3RU	SW	, , heavy set,	, poor net, ,	3.7, 3.7, 3.7, 3.7	3.4, 3.3, 3.6, 3.4
Shepody	WR	, , , pointed curved	white skin, poor shape, drop, , , long, skinny, curved	3.5, 3.5, 3.5, 3.5	2, 2.5, 2.5, 2
CO05040-1RU	SW	, , small, pointed,	nice shape, heavy set, Rhizoctonia, small+, pointed, poor net	2.8, 2.8, 2.8, 2.8	2.8, 3, 3, 2.6
CO05132-2RU	SW	, , , blocky, light set	, , , light set, blocky, feathering	3.3, 3.3, 3.3, 3.3	3.7, 3.7, 3.2, 3.3
CO03276-5RU	WR	, skinny, drop, ,	, skinny, small, feathering, thin, drop, light set	3, 3, 3, 3	3.3, 3.5, 3.3, 3.5
CO05189-3RU	SW	, , , poor shape, light set, drop	very large tubers, size parent?, rot, pointed, drop, , large tubers are rough, light set, blocky, poor shape	3.5, 3.5, 3.5, 3.5	3.2, 2.5, 2, 3.2
CO05175-1RU	SW	pointed, drop, , ,	long skinny, pointed, too long, , , curved, drop	3, 3, 3, 3	3.3, 2.8, 2.8, 2.8
OR05039-4	WR	thin, poor netting, drop, , ,	stem end rot, white skin, poor skin finish, ugly, , pointed, skinny, too long	2, 2, 2, 2	2.5, 2.5, 2.5, 2.5
A02062-1TE	WR	, poor shape, large tuber, raised eyes, drop, ,	pointed, long and curved, , poor shape+, bad rep, too long	3, 3, 3, 3	3.3, 3.6, 3.3, 3.3
POR06V12-3	WR	, blocky, light set, ,	, blocky+, nice shape, feathering, low yield, nice,	3.5, 3.5, 3.5, 3.5	3.8, 3.7, 3.8, 3.8
CO05152-5RU	SW	, , knobs,	, poor shape, small, heavy set, blocky,	3.2, 3.2, 3.2, 3.2	2.8, 3, 3, 2.8
A02507-2LB	WR	, , , pointed, drop	, some pointing, , blocky, nice shape, fat tubers	3.5, 3.5, 3.5, 3.5	4, 3.6, 3.9, 3.9
Russet Norkotah	WR	, no plants, ,	bad rep, some curved, some very nice shape, poor shape, long,	3.5, 3.5, 3.5, 3.5	3, 3, 3, 3.5
CO05024-11RU	SW	, , , blocky, light set	dough nice flesh, drop, , small, stem end rot, light set, blocky	2.8, 2.8, 2.8, 2.8	2.8, 2.3, 2.8, 2.8
Stampede Russet	TXCO	, some pointing, ,	, blocky+, light set, fat tubers, nice shape,	3.8, 3.8, 3.8, 3.8	3.8, 3.3, 3.5, 3.7
STP00-10	Canada	, very white flesh, poor shape, ,	feathering, rough, white skin, poor shape and skin, , ,	3.3, 3.3, 3.3, 3.3	3, 3, 2.8, 2.5
Russet Burbank	WR	, low yield, ,	, blocky, nice shape+, , light set	3.5, 3.5, 3.5, 3.5	3.7, 3.8, 3.7, 3.7
A02424-83LB	WR	, , poor yield,	, small, greenhead, drop, poor shape, light set,	1.5, 1.5, 1.5, 1.5	2.5, 2.5, 2, 2.5
Ranger Russet	WR	, , , poor shape, drop	, , , curved, poor shape	3, 3, 3, 3	3, 3, 3, 3
AO01114-4	WR	light set, nice shape, , ,	pointed+, curved, drop, nice flesh, bad rep	3.8, 3.8, 3.8, 3.8	3.5, 3.1, 3, 3.1
AOTX96216-2Ru	TXCO	, , , size parent, growth cracks, drop	nice rep, Rhizoctonia, , low yield, knobs on large tubers,	3, 3, 3, 3	3.8, 3.8, 3, 3

Western and Southwestern Regional Red Trial

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

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

- COTX02293-4R and CO05211-4R had the highest general ratings and best of trial designations, while Chieftain, Red LaSoda, ATTX98453-6R, COTX02293-4R, NDTX5438-11R, BTX2332-1R, and CO05211-4R also received a high general rating (Table 3a and Table 3e).
- Chieftain had the highest total and marketable yield (Table 3a).
- Red LaSoda had the highest yield of over 10 oz. tubers. CO05211-4R had the highest yield of < 4 oz. tubers (Table 3a).
- Chieftain had the highest percentage of marketable yield, while ATTX98453-6R the highest percentage of over 10 oz. tubers. CO05211-4R had the highest percent of <4 oz. tubers. (Table 3b).
- CO05211-4R had the highest average number of tubers per plant. Red LaSoda and BTX2332-1R were the latest maturing, while CO05211-4R and COTX02293-4R were the earliest (Table 3c).
- Red LaSoda had the deepest eyes (Table 3d).

Comments on entries:

- | | | |
|----------------|------------|--|
| • Chieftain | Oblong Red | light skin color, heavy set, poor internals, feathering, nice large tubers |
| • Red LaSoda | Oblong Red | deep eyes, oversized, feathering |
| • ATTX98453-6R | Oblong Red | nice, feathering, large tubers, nice skin, low yield, bad rep |
| • COTX02293-4R | Round Red | nice color, good skin finish++, nice color and shape, BOT |
| • NDTX5438-11R | Oblong Red | good color and nice flesh, smooth, nice skin finish++ |
| • BTX2332-1R | Oblong Red | nice color, rough skin finish, nice shape, feathering |
| • CO05211-4R | Oblong Red | rot+, small potato++, red to purple skin color, good skin set, BOT |
| • COTX02172-1R | Oblong Red | nice shape, smooth+, nice flesh, good skin finish, feathering, drop |
| • CO05228-4R | Oblong Red | small, yield+, feathering, nice skin color and finish, drop |

Summary:

COTX02293-4R was the outstanding entry based on general ratings and best of trial designations.

Springlake
Table 3a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 9 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
Chieftan	WR	337.4	292.5	75.0	145.4	72.1	3.1	38.9	2.9	4.0	4.0
Red LaSoda	WR	247.9	213.7	59.5	96.5	57.7	10.7	22.1	1.4	4.0	4.0
ATTX98453-6R	TXCO	196.0	127.9	37.0	52.5	38.4	22.1	44.6	1.4	3.5	3.8
COTX02293-4R	TXCO	168.0	96.3	55.5	35.6	5.2	0.0	69.8	1.9	4.5	4.4
NDTX5438-11R	WR	158.9	121.3	54.6	50.8	15.9	1.6	36.0	0.0	NA	4.0
BTX2332-1R	TXCO	157.8	132.4	35.8	72.8	23.9	1.7	23.7	0.0	4.5	3.8
CO05211-4R	SW	150.0	10.4	10.4	0.0	0.0	0.0	139.7	0.0	4.5	4.0
COTX02172-1R	TXCO	111.5	80.4	26.4	38.7	15.2	0.0	31.1	0.0	3.5	3.8
CO05228-4R	SW	94.0	34.2	9.2	18.2	6.9	0.0	58.1	1.7	3.0	3.6
Average		180.2	123.2	40.4	56.7	26.1	4.4	51.5	1.0	3.9	3.9
L.S.D. (.05)		35.6	29.7	15.0	26.7	26.4	7.0	24.8	ns		0.2

¹ 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 9 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Chieftan	WR	86.6	22.3	43.0	21.4	0.9	11.6	0.9	1.063	13.7	Oblong	Red
Red LaSoda	WR	86.4	24.0	39.4	22.9	4.1	8.9	0.6	1.055	12.4	Oblong	Red
ATTX98453-6R	TXCO	66.4	18.8	28.0	19.6	11.0	21.8	0.8	1.068	14.6	Oblong	Red
COTX02293-4R	TXCO	58.1	33.6	21.7	2.8	0.0	40.9	1.0	1.062	13.5	Round	Red
NDTX5438-11R	WR	76.1	34.7	32.0	9.3	0.7	23.2	0.0	1.059	13.1	Oblong	Red
BTX2332-1R	TXCO	85.1	22.3	52.4	10.4	1.4	13.5	0.0	1.057	12.7	Oblong	Red
CO05211-4R	SW	7.3	7.3	0.0	0.0	0.0	92.7	0.0	1.063	13.8	Oblong	Red
COTX02172-1R	TXCO	72.1	23.1	35.3	13.7	0.0	27.9	0.0	1.056	12.5	Oblong	Red
CO05228-4R	SW	37.3	9.6	19.8	7.9	0.0	60.8	1.9	1.063	13.8	Oblong	Red
Average		63.9	21.7	30.2	12.0	2.0	33.5	0.6	1.061	13.3		
L.S.D. (.05)		12.9	7.9	17.6	13.1	2.8	13.0	ns	0.004	0.6		

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 9 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
Chieftan	WR	5.0	5.7	2.4	98	1.9	4.0	4.0	4.2	0
Red LaSoda	WR	3.6	5.7	2.7	99	2.0	3.9	4.7	4.7	0
ATX98453-6R	TXCO	4.2	4.9	2.3	86	1.6	3.4	3.4	3.2	3
COTX02293-4R	TXCO	4.5	3.4	2.2	94	1.9	3.6	3.3	3.6	6
NDTX5438-11R	WR	5.3	4.2	2.5	64	1.8	3.1	3.7	3.9	4
BTX2332-1R	TXCO	2.9	5.8	2.4	80	1.9	3.7	4.5	4.7	0
CO05211-4R	SW	8.8	1.5	3.3	98	1.8	3.5	3.1	3.5	9
COTX02172-1R	TXCO	3.0	4.3	2.0	75	1.8	3.2	3.5	3.3	4
CO05228-4R	SW	3.8	3.0	2.7	75	1.5	3.3	3.5	3.5	6
Average		4.5	4.3	2.5	86	1.8	3.5	3.7	3.8	3
L.S.D. (.05)		1.9	0.9	ns	22	ns	ns	0.6	0.5	ns

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 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 9 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
Chieftan	WR	1.0	3.5	1.0	4.0	3.5	5.0	5.0	5.0	5.0	3.6	13	0	0	10
Red LaSoda	WR	1.0	3.5	1.0	2.0	3.6	5.0	5.0	5.0	5.0	3.6	5	0	0	3
ATTX98453-6R	TXCO	1.0	3.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
COTX02293-4R	TXCO	1.0	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	4.0	0	0	0	0
NDTX5438-11R	WR	1.0	3.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.0	3	0	0	0
BTX2332-1R	TXCO	1.0	3.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	3.0	3	0	0	0
CO05211-4R	SW	1.0	1.5	1.0	4.0	4.5	5.0	5.0	5.0	5.0	4.0	0	0	0	0
COTX02172-1R	TXCO	1.0	3.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	3.5	0	0	0	0
CO05228-4R	SW	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	3.5	3	0	0	8
Average		1.0	2.9	1.0	3.8	3.9	5.0	5.0	5.0	5.0	3.6	3	0	0	2
L.S.D. (.05)															

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Springlake
Table 3e.

Notes and general rating for all reps of 9 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
Chieftan	WR	light skin color, , ,	heavy set, poor internals, feathering, nice lage tubers, light skin color,	4, 4, 4, 4	4, 4, 4, 4
Red LaSoda	WR	, deep eyes, ,	, oversized, deep eyes, feathering, ,	4, 4, 4, 4	4, 4, 4, 4
ATTX98453-6R	TXCO	, , nice,	feathering, large tubers, , nice skin,some feathering, low yield, bad rep	3.5, 3.5, 3.5, 3.5	4, 4, 3.6, 3.6
COTX02293-4R	TXCO	nice color, , ,	good skin finish++, BOT, nice color and shape, ,	4.5, 4.5, 4.5, 4.5	4.5, 4.5, 4.5, 4
NDTX5438-11R	WR	, , no plants,	good color and nice flesh, , smooth, nice skin finish++,	1, 1, 1, 1	4, 4, 3.8, 4
BTX2332-1R	TXCO	, , nice color,	, rough skin finish, nice shape, , feathering	4.5, 4.5, 4.5, 4.5	3.8, 3.8, 3.8, 3.8
CO05211-4R	SW	small potato, BOT, , ,	rot+, small potato++, red to puple skin color, goog skin set,	4.5, 4.5, 4.5, 4.5	4, 4, 4, 4
COTX02172-1R	TXCO	, , drop,	nice shape, smooth+, nice flesh, good skin finish, feathering, ,	3.5, 3.5, 3.5, 3.5	4, 3.8, 3.5, 3.7
CO05228-4R	SW	, , small, drop,	yield+, feathering, , nice skin color,smooth, nice skin finish+,	3, 3, 3, 3	3.5, 3.7, 3.5, 3.5

Western and Southwestern Regional Red/Yellow Trial

This trial consisted of ten entries.

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

- COTX01403-4R/Y received a high general rating and a best of trial designation (Table 4a and 4f).
- ATTX961014-1R/Y had the highest total yield, while COTX01403-4R/Y had the highest marketable yield. ATTX961014-1R/Y produced the highest yield of 6-10 oz. tubers (Table 4a).
- CO05037-2R/Y had the highest yield of <4 oz. tubers (Table 4a).
- ATTX01180-1R/Y had the highest percentage of marketable yield. CO05037-2R/Y had the highest percentage of <4 oz. tubers (Table 4b).
- CO04067-8R/Y had the highest average number of tubers per plant (Table 4c).
- BTX2103-1R/Y was latest in maturity, while ATTX961014-1R/Y and CO05037-2R/Y were the earliest in maturity (Table 4c).
- CO04067-8R/Y and CO05037-2R/Y had the darkest yellow flesh color (Table 4d).

Comments on entries:

- ATTX961014-1R/Y Oblong Red very light flesh color, smooth nice skin finish, very nice
- COTX01403-4R/Y Oblong Red fast bulk, growth cracks, very large tubers, good skin finish, yield+, BOT
- BTX2103-1R/Y Oblong Red nice, some rough
- ATTX98510-1R/Y Oblong Red heat sprouts, feathering, skin set??, rough, light set, drop
- CO04067-8R/Y Round Red small potato, heavy set, nice flesh, very yellow flesh, very nice, growth cracks, virus?, yellow center of flesh, drop
- CO05037-2R/Y Oblong Red fingerling to small round shape, oblong to long, fingerling?, drop, heavy set, small potato
- ATTX961014-1BR/Y Oblong Red light flesh color, very smooth, light set
- ATTX01180-1R/Y Oblong Red poor shape, nice skin and flesh, feathering, nice yellow flesh, rough
- AC05175-3P/Y Oblong Purple nice purple skin color, deep eyes, light set, nice skin finish, rough

- CO04159-1R Round Red very nice color, low yield, white flesh

Summary:

COTX01403-4R/Y was the best entry based on all factors.

Springlake
Table 4a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 10 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
ATTX961014-1R/Y	TXCO	266.4	174.6	83.3	69.8	21.4	0.0	87.5	4.3	3.5	3.8
COTX01403-4R/Y	TXCO	263.1	179.6	52.9	48.6	78.1	37.3	42.9	3.3	4.0	3.8
BTX2103-1R/Y	TXCO	240.3	106.0	64.6	33.5	7.8	0.0	134.3	0.0	4.0	3.8
ATTX98510-1R/Y	TXR/Y	218.1	115.8	68.6	42.0	5.2	0.0	102.3	0.0	3.0	3.7
CO04067-8R/Y	WR	215.4	83.1	51.3	29.4	2.4	0.0	130.3	1.9	3.7	3.7
CO05037-2R/Y	SW	214.2	27.1	27.1	0.0	0.0	0.0	187.0	0.0	3.5	3.4
ATTX961014-1BR/Y	TXCO	197.4	141.1	61.2	56.7	23.2	2.1	52.7	1.6	3.5	3.8
ATTX01180-1R/Y	SW	181.5	139.0	58.9	41.0	39.1	1.6	39.4	1.6	3.5	3.7
AC05175-3P/Y	SW	141.6	80.9	48.6	30.3	2.1	0.0	60.7	0.0	4.0	3.6
CO04159-1R	WR	18.3	9.0	2.4	6.6	0.0	0.0	9.3	0.0	3.0	3.0
Average		195.6	105.6	51.9	35.8	17.9	4.1	84.6	1.3	3.6	3.6
L.S.D. (.05)		43.5	33.1	23.2	20.6	19.7	8.6	32.2	ns		0.1

¹ 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 10 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
ATTX961014-1R/Y	TXCO	65.6	31.3	26.0	8.3	0.0	32.8	1.6	1.066	14.3	Oblong	Red
COTX01403-4R/Y	TXCO	67.7	21.5	17.4	28.8	13.8	17.0	1.6	1.058	12.9	Oblong	Red
BTX2103-1R/Y	TXCO	45.6	27.5	13.8	4.3	0.0	54.4	0.0	1.067	14.4	Oblong	Red
ATTX98510-1R/Y	TXR/Y	53.1	31.5	19.2	2.4	0.0	46.9	0.0	1.062	13.6	Oblong	Red
CO04067-8R/Y	WR	38.4	23.4	14.0	1.1	0.0	60.7	0.8	1.067	14.4	Round	Red
CO05037-2R/Y	SW	10.5	10.5	0.0	0.0	0.0	89.5	0.0	1.061	13.4	Oblong	Red
ATTX961014-1BR/Y	TXCO	71.2	30.7	28.8	11.7	1.4	26.8	0.7	1.065	14.1	Oblong	Red
ATTX01180-1R/Y	SW	76.5	32.4	22.4	21.8	0.9	21.9	0.7	1.067	14.4	Oblong	Red
AC05175-3P/Y	SW	55.9	32.9	22.0	1.1	0.0	44.1	0.0	1.064	13.8	Oblong	Purple
CO04159-1R	WR	36.1	9.7	26.4	0.0	0.0	63.9	0.0	1.052	11.8	Round	Red
Average		52.1	25.1	19.0	7.9	1.6	45.8	0.5	1.063	13.7		
L.S.D. (.05)		21.4	10.5	ns	6.3	2.8	21.2	ns	ns	ns		

Springlake
Table 4c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 10 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
ATTX961014-1R/Y	TXCO	5.8	3.8	2.4	100	2.0	4.0	3.4	3.8	11
COTX01403-4R/Y	TXCO	4.7	5.6	2.1	82	1.5	3.3	3.5	4.0	14
BTX2103-1R/Y	TXCO	7.1	3.1	2.5	93	1.8	3.5	4.6	4.8	1
ATTX98510-1R/Y	TXR/Y	6.0	3.0	2.8	100	1.6	3.9	4.3	4.5	1
CO04067-8R/Y	WR	17.2	2.6	2.5	48	1.5	2.6	4.3	4.1	0
CO05037-2R/Y	SW	10.2	1.7	2.7	100	1.5	3.4	3.3	3.6	15
ATTX961014-1BR/Y	TXCO	4.5	4.3	2.3	87	1.8	3.5	3.7	3.8	6
ATTX01180-1R/Y	SW	4.5	4.4	1.9	77	1.5	3.4	4.2	4.2	0
AC05175-3P/Y	SW	6.5	3.1	2.7	60	1.6	3.1	4.1	3.9	1
CO04159-1R	WR	2.0	2.2	2.3	60	1.5	2.4	4.1	4.0	4
Average		6.9	3.4	2.4	81	1.6	3.3	3.9	4.1	5
L.S.D. (.05)		5.1	0.6	ns	27	ns	0.8	0.6	0.6	5

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 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 10 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
ATTX961014-1R/Y	TXCO	2.5	3.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	4.0	0	0	0	0
COTX01403-4R/Y	TXCO	3.3	3.5	1.0	4.0	3.8	4.0	5.0	5.0	5.0	4.0	0	0	0	0
BTX2103-1R/Y	TXCO	2.0	3.5	1.0	4.0	3.6	5.0	5.0	5.0	5.0	4.0	0	0	0	0
ATTX98510-1R/Y	TXR/Y	2.5	3.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	3.5	0	0	0	0
CO04067-8R/Y	WR	4.0	2.0	1.0	4.0	4.0	4.0	5.0	5.0	5.0	4.0	0	0	0	0
CO05037-2R/Y	SW	3.8	6.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
ATTX961014-1BR/Y	TXCO	2.0	3.5	1.0	4.0	3.6	5.0	5.0	5.0	5.0	4.0	0	0	0	0
ATTX01180-1R/Y	SW	3.5	3.5	1.0	3.6	4.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
AC05175-3P/Y	SW	2.6	3.0	1.0	3.5	5.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
CO04159-1R	WR	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
Average		2.7	3.0	1.0	3.9	3.9	4.8	5.0	5.0	5.0	3.9	0	0	0	0
L.S.D. (.05)															

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Springlake
Table 4e.

Notes and general rating for all reps of 10 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
ATTX961014-1R/Y	TXCO	very light flesh color, , ,	light flesh, smooth nice skin finish, , very nice, , growth cracks, very large tubers, BOT, good skin finish, yield+	3.5, 3.5, 3.5, 3.5	3.8, 3.8, 3.8, 3.8
COTX01403-4R/Y	TXCO	, large tubers, fast bulk, BOT-, ,		4, 4, 4, 4	3.9, 3.8, 3.6, 3.7
BTX2103-1R/Y	TXCO	, , , nice	, , , some rough	4, 4, 4, 4	3.7, 3.7, 3.8, 3.8
ATTX98510-1R/Y	TXR/Y	, , heat sprouts,	feathering, skin set??, rough, light set, drop, , drop, heavy set, nice flesh, very yellow flesh, very nice, growth cracks, virus?, yellow center of flesh	3, 3, 3, 3	3.8, 3.7, 3.7, 3.7
CO04067-8R/Y	WR	, small potato, ,	, oblong to long, fingerling?, drop, heavy set, small potato	3.7, 3.7, 3.7, 3.7	3.7, 3.7, 3.7, 3.7
CO05037-2R/Y	SW	, , , fingerling to small round shape		3.5, 3.5, 3.5, 3.5	3.3, 3.5, 3.3, 3.5
ATTX961014-1BR/Y	TXCO	light flesh color, , ,	light flesh, very smooth, , light set , some feathering, nice yellow flesh, feathering, rough,	3.5, 3.5, 3.5, 3.5	3.6, 3.7, 3.7, 4
ATTX01180-1R/Y	SW	, , , poor shape, nice skin and flesh	vice flesh , deep eyes, very good skin color, light set, nice skin finish, rough	3.5, 3.5, 3.5, 3.5	3.8, 3.8, 3.8, 3.5
AC05175-3P/Y	SW	, , , nice purple skin color		4, 4, 4, 4	3.5, 3.7, 3.5, 3.5
CO04159-1R	WR	very nice color, low yield, , ,	white flesh, , ,	3, 3, 3, 3	3, 3, 3, 3

Western and Southwestern Regional White/Yellow Trial

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

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

- TXYG057 and TXYG079 had the highest general ratings and best of trial notations (Table 5a and 5e).
- F07027 produced the highest total and marketable yields, while TXYG079 had the highest yield of over 10 oz. tubers (Table 5a).
- CO04099-3W/Y had the highest yield of <4 oz. tubers, while COTX04015-3AW/Y had the highest yield of culls/No. 2 tubers (Table 5a).
- Yukon Gold, TXYG057, and TXYG079 had the highest percentage of marketable yield, while A02267-1Y had the highest percentage of <4 oz. tubers (Table 5b).
- CO04099-3W/Y had the highest specific gravity (Table 5b).
- CO05037-3W/Y had the highest number of tubers per plant (Table 5c).
- F07060 was the latest in maturity, while Yukon Gold and CO05037-3W/Y were earlier in maturity (Table 5c).
- COTX04015-3AW/Y had the darkest yellow flesh color (Table 5d).
- Rochdale Gold, TXYG057, and Yukon Gold had high levels of hollow heart (Table 5d).

Comments on entries:

- F07027 Round White some pointed, heavy set, light set, large tubers++, hollow heart, very light flesh (white), nice shape and size
- Rochdale Gold Oblong White deep nose, some buff skin, heavy set+, nice shape+, hollow heart
- TXYG057 Oblong White very nice, large tubers, some rough, poor internal?, nice shape, darker yellow flesh than normal, BOT
- CO05037-3W/Y Oblong White some pointed, heavy set+, small+, poor skin finish, nice flesh+, light set and yield
- F07060 Round Red light skin, heavy set+, small+, nice shape, very light flesh
- TXYG079 Oblong White large tubers, light russet, heavy set, very nice large tubers+, internal??. nice yellow flesh, darker than normal, BOT

- COTX04015-3AW/Y Oblong White nice flesh, small, heavy set, flat, pear shaped, light set and yield
- Yukon Gold Oblong White light set, nice shape, darker yellow flesh than normal, nice flesh, some brown center
- CO04099-3W/Y Oblong White nice dark flesh, small, heavy set, poor skin finish
- A02267-1Y Oblong White small, deep eyes, small+, poor shape

Summary:

TXYG057 and TXYG079 were the outstanding entries bases on all factors.

Springlake
Table 5a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 10 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
F07027	Canada	346.8	286.9	47.2	133.6	106.1	14.3	44.1	1.4	3.7	3.9
Rochdale Gold	Canada	334.7	258.3	87.5	113.6	57.3	0.0	52.9	23.5	3.8	3.9
TXYG057	TXCO	310.1	262.7	41.0	105.1	116.7	7.1	29.6	10.7	4.5	4.0
CO05037-3W/Y	SW	309.9	169.7	118.9	50.8	0.0	0.0	127.4	12.8	3.9	3.7
F07060	Canada	309.1	170.6	102.9	62.1	5.7	0.0	120.0	18.5	3.7	3.9
TXYG079	TXCO	296.6	254.4	27.5	89.4	137.6	18.5	16.4	7.3	4.0	3.9
COTX04015-3AW/Y	TXCO	275.7	179.6	76.4	89.9	13.3	0.0	76.7	19.4	3.9	3.6
Yukon Gold	WR	267.6	235.1	25.4	98.2	111.5	0.0	16.1	16.4	3.8	3.9
CO04099-3W/Y	WR	227.1	81.6	60.8	20.7	0.0	0.0	133.1	12.4	3.6	3.5
A02267-1Y	WR	219.5	105.8	75.5	30.3	0.0	0.0	106.3	7.4	3.0	3.6
Average		289.7	200.5	66.3	79.4	54.8	4.0	72.3	13.0	3.8	3.8
L.S.D. (.05)		34.8	33.2	29.1	40.9	21.1	ns	22.3	11.0		0.2

¹ 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 10 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
F07027	Canada	82.8	13.5	38.8	30.4	4.2	12.6	0.4	1.070	14.9	Round	White
Rochdale Gold	Canada	77.1	26.4	33.3	17.4	0.0	16.0	7.0	1.066	14.2	Oblong	White
TXYG057	TXCO	85.2	13.2	34.3	37.7	2.3	9.3	3.2	1.070	15.0	Oblong	White
CO05037-3W/Y	SW	54.5	38.0	16.5	0.0	0.0	41.3	4.2	1.067	14.5	Oblong	White
F07060	Canada	54.7	32.9	19.9	1.9	0.0	39.1	6.2	1.066	14.3	Round	Red
TXYG079	TXCO	86.4	9.0	30.5	46.8	5.8	5.5	2.4	1.071	15.1	Oblong	White
COTX04015-3AW/Y	TXCO	65.2	27.9	32.4	4.9	0.0	27.8	7.0	1.072	15.3	Oblong	White
Yukon Gold	WR	87.8	9.6	36.2	42.0	0.0	6.0	6.1	1.072	15.4	Oblong	White
CO04099-3W/Y	WR	36.9	27.1	9.8	0.0	0.0	58.0	5.1	1.073	15.6	Oblong	White
A02267-1Y	WR	48.5	35.1	13.3	0.0	0.0	48.0	3.6	1.056	12.5	Oblong	White
Average		67.9	23.3	26.5	18.1	1.2	26.3	4.5	1.068	14.7		
L.S.D. (.05)		7.3	9.2	12.7	6.0	ns	4.8	3.6	0.004	0.7		

Springlake
Table 5c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 10 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
F07027	Canada	4.8	6.1	3.6	100	2.0	4.0	3.5	3.7	18
Rochdale Gold	Canada	5.3	5.3	3.3	100	1.6	3.8	3.7	4.1	8
TXYG057	TXCO	4.7	6.6	1.8	84	1.5	3.7	3.6	4.0	15
CO05037-3W/Y	SW	10.7	3.3	2.2	76	1.9	3.4	3.5	3.9	8
F07060	Canada	7.3	3.8	2.7	96	1.6	2.9	4.8	4.8	0
TXYG079	TXCO	4.3	7.7	1.7	78	1.5	3.7	3.7	4.0	14
COTX04015-3AW/Y	TXCO	6.8	4.4	2.3	84	1.6	3.4	3.8	4.2	6
Yukon Gold	WR	3.4	7.7	1.5	87	1.5	3.6	3.6	4.1	13
CO04099-3W/Y	WR	5.6	3.4	2.1	100	1.5	3.7	4.6	4.7	0
A02267-1Y	WR	6.0	3.0	2.6	100	1.5	3.3	4.5	4.7	1
Average		5.9	5.1	2.4	90	1.6	3.5	3.9	4.2	8
L.S.D. (.05)		2.1	1.3	0.2	15	0.2	ns	0.4	0.3	6

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 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 10 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
F07027	Canada	1.5	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
Rochdale Gold	Canada	2.6	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	15	0	0	0
TXYG057	TXCO	3.5	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	20	0	0	0
CO05037-3W/Y	SW	3.2	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
F07060	Canada	2.0	1.6	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXYG079	TXCO	3.2	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	5
COTX04015-3AW/Y	TXCO	3.6	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Yukon Gold	WR	3.5	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	18	0	0	3
CO04099-3W/Y	WR	3.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
A02267-1Y	WR	3.0	2.0	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.0	2.7	1.0	3.9	1.0	5.0	5.0	5.0	5.0	5.0	7	0	0	1
L.S.D. (.05)															

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Springlake
Table 5e.

Notes and general rating for all reps of 10 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
F07027	Canada	, some pointed, heavy set, ,	, light set, large tubers++, hollow heart, very light flesh (white), nice shape and size	3.7, 3.7, 3.7, 3.7	4, 3.8, 3.8, 3.8
Rochdale Gold	Canada	, , , deep nose,	some buff skin, heavy set+, , nice shape+, hollow heart large tubers, some rough, poor internal?, nice shape,	3.8, 3.8, 3.8, 3.8	3.8, 3.8, 4, 4
TXYG057	TXCO	very nice, BOT, , ,	darker yellow flesh than normal, , heavy set+, small+, poor skin finish, nice flesh+, light set and yield	4.5, 4.5, 4.5, 4.5	4, 4, 4, 4
CO05037-3W/Y	SW	, , heavy set, some pointed,		3.9, 3.9, 3.9, 3.9	3.8, 3.8, 3.6, 3.5
F07060	Canada	, light skin, flesh(2), ,	, heavy set+, small+, nice shape, very light flesh, , BOT, very nice large tubers+, internal??, , nice yellow	3.7, 3.7, 3.7, 3.7	4, 4, 3.8, 3.8
TXYG079	TXCO	, large tubers, light russet, heavy set, ,	flesh, darker than normal small, heavy set, flat, pear shaped, , nice flesh, small,	4, 4, 4, 4	3.8, 4.2, 3.8, 3.8
COTX04015-3AW/Y	TXCO	nice flesh (3.5), , ,	shape?, light set and yield darker yellow flesh than normal, nice shape and flesh,	3.9, 3.9, 3.9, 3.9	3.6, 3.5, 3.7, 3.5
Yukon Gold	WR	, light set, nice shape, ,	light set, some brown center,	3.8, 3.8, 3.8, 3.8	4, 4, 3.7, 3.7
CO04099-3W/Y	WR	nice dark flesh (4), , ,	small, heavy set, poor skin finish, nice flesh, ,	3.6, 3.6, 3.6, 3.6	3.5, 3.5, 3.5, 3.5
A02267-1Y	WR	, small, ,	deep eyes, small+, poor shape, ,	3, 3, 3, 3	3.7, 3.5, 3.5, 3.5

Southwestern Regional Purple/Purple Trial

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

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

- CO05062-2P/P received a best of trial notation, while CO05062-2P/P and Purple Majesty received the highest general ratings (Table 6a).
- CO05062-2P/P had the highest total and yield of <4 oz. tubers, while COTX05082-2P/P had the highest marketable yield (Table 6a).
- CO05062-2P/P and Purple Majesty had highest percentage of <4 oz. tubers (Table 6b).
- Purple Majesty had the highest number of tubers per plant (Table 6c).
- COTX05082-2P/P had the darkest purple flesh color (Table 6d).

Comments on entries:

- CO05062-2P/P Round Purple nice, small, heavy set, low yield, bad rep, smooth, BOT
- Purple Majesty Oblong Purple small, very dark flesh, bad rep, low yield, better rep
- COTX05082-2P/P Oblong Purple poor shape, keep for flesh, very dark flesh

Summary:

CO05062-2P/ was the best entry based on all factors.

Springlake
Table 6a.

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/Purple
Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
CO05062-2P/P	SW	137.2	28.9	25.1	3.8	0.0	0.0	107.5	0.9	4.0	3.4
Purple Majesty	SW	133.3	37.9	34.6	3.3	0.0	0.0	92.7	2.8	4.0	3.5
COTX05082-2P/P	TXP-P	115.5	59.8	37.0	22.8	0.0	0.0	55.7	0.0	3.5	2.3
Average		128.7	42.2	32.2	10.0	0.0	0.0	85.3	1.2	3.8	3.1
L.S.D. (.05)		ns	ns	ns	ns	ns	ns	ns	ns		ns

¹ 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 3 entries in the Southwestern Regional Purple/Purple Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
CO05062-2P/P	SW	21.7	18.9	2.9	0.0	0.0	77.6	0.6	1.073	15.5	Round	Purple
Purple Majesty	SW	28.4	25.9	2.5	0.0	0.0	69.4	2.2	1.064	13.9	Oblong	Purple
COTX05082-2P/P	TXP-P	52.1	31.7	20.4	0.0	0.0	47.9	0.0	1.055	12.4	Oblong	Purple
Average		34.1	25.5	8.6	0.0	0.0	65.0	0.9	1.064	13.9		
L.S.D. (.05)		ns	ns	ns			ns	ns	0.007	1.3		

Springlake
Table 6c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 3 entries in the Southwestern Regional Purple/Purple Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
CO05062-2P/P	SW	8.9	1.9	1.9	74	1.6	15.8	3.9	3.8	4
Purple Majesty	SW	10.5	2.2	2.3	51	1.5	2.3	3.7	4.1	1
COTX05082-2P/P	TXP-P	3.7	2.9	2.4	91	1.8	3.1	3.7	4.1	1
Average		7.7	2.3	2.2	72	1.6	7.1	3.7	4.0	2
L.S.D. (.05)		ns	ns	0.3	21	ns	ns	ns	ns	ns

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 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 3 entries in the Southwestern Regional Purple/Purple Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
CO05062-2P/P	SW	4.5	3.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
Purple Majesty	SW	4.0	3.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
COTX05082-2P/P	TXP-P	5.0	4.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
Average L.S.D. (.05)		4.5	3.7	1.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0

¹ 1=light to 5=dark
² 1=round to 5=long
³ 1=none to 5=heavy
⁴ 1=deep to 5=shallow
⁵ 1=light to 5=dark

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

Springlake
Table 6e.

Notes and general rating for all reps of 3 entries in the Southwestern Regional Purple/Purple Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
CO05062-2P/P	SW	nice, small, BOT, , ,	small, heavy set, low yield, bad rep, bad rep, smooth	4, 4, 4, 4	3.5, 3.5, 3, 3.7
Purple Majesty	SW	small, , ,	very dark flesh, bad rep, low yield, better rep,	4, 4, 4, 4	3.8, 3.3, 3.3, 3.6
COTX05082-2P/P	TXP-P	poor shape, , ,	keep for flesh, very dark flesh, ,	3.5, 3.5, 3.5, 3.5	2, 2, 3, 2

Outstanding Texas Advanced Chip Selections, 2013

Overall Summary - Springlake and Dalhart: The Texas Advanced Chip Selection Trial at Springlake included twelve entries, with 30 entries planted at Dalhart. Atlantic and Chipeta were the check varieties for both locations. Based on both trials NDTX060700C-1W, NDTX081648CB-13W, NDTX091908AB-2W, TX09396-1W, NDTX071109C-1W, NDTX081644CAB-2W, COTX09022-5Ru/Y, NDTX102462C-6W, NDTX102514ABC-5W, NDTX102557-1W, TX09403-14W, COTX09089-1Ru, NDTX102462C-2W, and NDTX102461AB-4W will be re-evaluated in the 2013 season.

Texas Advanced Chip Trial

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

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

- NDTX071217CB-1W/Y was the outstanding entry based on general rating, best of trial designations for appearance, and percent of good chips. NDTX081648CB-4W and NDTX081644CAB-2 had a high general rating and best of trial designations for appearance NDTX081648CB-13W and NDTX081648CB-2W had high general ratings (Tables 7a, 7e, and 7f).
- NDTX091908AB-2W had the highest total yield. NDTX081648CB-4W had the highest marketable yield. NDTX081644CAB-2W had the highest yield of <4 oz. tubers (Table 7a).
- NDTX081648CB-1W had the highest percentage of marketable yield (Table 7b).
- NDTX060700C-1W had the highest percentage (94%) of <4 oz. tubers (Table 7b).
- NDTX060700C-1W had the highest specific gravity (Table 7b).
- NDTX081648CB-13W and NDTX081644CAB-2W were the latest in maturity, while NDTX081648CB-1W, NDTX071217CB-1W/Y, NDTX060700C-1W, and Atlantic were the earliest in maturity (Table 7c).
- Atlantic had the highest percentage of internal brownspot (Table 7d).
- NDTX060700C-1W received the highest percent of good chips (87%) (Table 7f).

Comments on entries:

- NDTX091908AB-2W Oblong White heavy set++, small, variable size, light set, nice flesh, CR=1

- NDTX081648CB-4W Oblong White nice shape, very heavy set and yield++, BOT++, Rhizoctonia, CR=1
- TX08352-2Ru Oblong Russet light russet, heavy set, early??, CR=3
- NDTX081648CB-13W Oblong White nice, nice flesh, slight brown center, CR=1
- NDTX071109C-1W Oblong White nice, heavy set, deep nose, rough+, nice flesh, CR=1
- NDTX081644CAB-2W Round White heavy set, small, BOT, very small tubers, move to small potato trial, nice, CR=1
- NDTX081648CB-1W Oblong White light set, yield+, heavy set, CR=1
- COTX09022-5Ru/Y Oblong RSpl red splash, pointing, CR=3
- NDTX081648CB-2W Oblong White heavy set, BOT, nice shape, CR=1
- NDTX071217CB-1W/Y Oblong White light set, BOT, enter in both chip and yell flesh trials, light set, smooth skin finish, nice flesh, early, CR=3
- NDTX060700C-1W Round White small potato, nice flesh, vascular browning, poor skin finish, CR=1
- Atlantic Oblong Buff variable size, poor internals, ugly flesh, CR=1

¹CR=chip color rating 1=light to 3= dark

Summary:

NDTX071217CB-1W/Y was the outstanding entry based on all factors. NDTX081648CB-4W and NDTX081644CAB-2 had a high general rating and best of trial designations for appearance.

Springlake
Table 7a.

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 Chip Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
NDTX091908AB-2W	NATCH	356.3	270.5	114.4	132.6	23.5	0.0	85.7	0.0	4.5	3.9
NDTX081648CB-4W	NATCH	351.1	284.5	105.4	160.2	18.8	0.0	66.6	0.0	3.7	4.5
TX08352-2Ru	TXCH	309.1	216.4	102.3	105.4	8.6	0.0	92.7	0.0	4.0	3.9
NDTX081648CB-13W	NATCH	268.1	181.0	85.9	81.2	13.8	0.0	87.1	0.0	4.5	4.2
NDTX071109C-1W	NATCH	248.4	201.6	61.9	121.2	18.5	0.0	46.8	0.0	4.0	3.6
NDTX081644CAB-2W	NATCH	227.5	23.0	17.5	5.5	0.0	0.0	204.5	0.0	4.5	4.1
NDTX081648CB-1W	NATCH	216.6	178.6	52.9	110.1	15.6	0.0	38.0	0.0	4.8	3.9
COTX09022-5Ru/Y	TXCH	216.4	112.4	70.5	41.8	0.0	0.0	104.1	0.0	4.0	3.3
NDTX081648CB-2W	NATCH	191.2	124.5	59.3	59.5	5.7	0.0	66.7	0.0	4.5	4.0
NDTX071217CB-1W/Y	NATCH	179.1	135.7	53.2	67.4	15.0	0.0	43.4	0.0	3.8	4.5
NDTX060700C-1W	NATCH	168.0	8.8	5.9	2.9	0.0	0.0	159.2	0.0	3.8	3.4
Atlantic	TXCH	110.3	66.6	30.4	17.6	18.5	2.8	41.0	0.0	3.5	2.6
Average		236.8	150.3	63.3	75.5	11.5	0.2	86.3	0.0	4.1	3.8
L.S.D. (.05)		42.0	33.2	15.6	35.6	ns	ns	27.3			0.3

¹ 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 12 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
NDTX091908AB-2W	NATCH	75.9	32.6	36.6	6.8	0.0	24.1	0.0	1.068	14.6	Oblong	White
NDTX081648CB-4W	NATCH	82.2	30.2	46.2	5.8	0.0	17.8	0.0	1.069	14.9	Oblong	White
TX08352-2Ru	TXCH	70.5	33.4	34.1	3.0	0.0	29.5	0.0	1.081	17.0	Oblong	Russet
NDTX081648CB-13W	NATCH	68.1	32.5	31.3	4.2	0.0	31.9	0.0	1.079	16.5	Oblong	White
NDTX071109C-1W	NATCH	81.2	25.6	47.7	7.9	0.0	18.8	0.0	1.068	14.6	Oblong	White
NDTX081644CAB-2W	NATCH	9.8	7.5	2.2	0.0	0.0	90.2	0.0	1.071	15.2	Round	White
NDTX081648CB-1W	NATCH	83.4	24.8	51.4	7.2	0.0	16.6	0.0	1.071	15.1	Oblong	White
COTX09022-5Ru/Y	TXCH	51.6	32.6	19.0	0.0	0.0	48.4	0.0	1.071	15.3	Oblong	Red Splash
NDTX081648CB-2W	NATCH	65.5	31.1	31.8	2.6	0.0	34.5	0.0	1.073	15.4	Oblong	White
NDTX071217CB-1W/Y	NATCH	75.1	29.5	36.1	9.4	0.0	24.9	0.0	1.066	14.3	Oblong	White
NDTX060700C-1W	NATCH	5.4	3.4	2.0	0.0	0.0	94.6	0.0	1.090	18.5	Round	White
Atlantic	TXCH	60.5	27.0	16.4	17.0	2.5	36.9	0.0	1.077	16.3	Oblong	Buff
Average		60.8	25.9	29.6	5.3	0.2	39.0	0.0	1.074	15.6		
L.S.D. (.05)		9.8	8.3	13.6	ns	ns	9.1		0.003	0.5		

Springlake
Table 7c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 12 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
NDTX091908AB-2W	NATCH	5.9	5.1	2.6	100	1.8	3.8	3.6	4.3	9
NDTX081648CB-4W	NATCH	5.8	5.1	2.2	100	1.5	3.8	3.6	4.2	10
TX08352-2Ru	TXCH	6.8	4.6	2.9	88	2.0	3.9	3.7	3.4	10
NDTX081648CB-13W	NATCH	5.3	4.2	2.4	100	1.5	3.7	4.3	4.4	1
NDTX071109C-1W	NATCH	4.3	4.7	2.9	100	1.6	3.9	3.2	3.5	14
NDTX081644CAB-2W	NATCH	10.5	1.8	2.5	100	1.8	3.6	4.7	4.2	1
NDTX081648CB-1W	NATCH	3.2	5.6	1.7	100	1.5	3.9	3.3	4.0	18
COTX09022-5Ru/Y	TXCH	5.5	3.4	2.1	96	1.5	3.9	3.9	4.4	8
NDTX081648CB-2W	NATCH	4.0	4.0	2.1	100	1.6	3.9	3.8	4.2	3
NDTX071217CB-1W/Y	NATCH	3.2	5.2	2.2	100	1.8	3.5	3.3	3.6	16
NDTX060700C-1W	NATCH	6.9	2.1	2.1	96	2.5	3.5	3.4	3.4	15
Atlantic	TXCH	2.5	3.9	2.8	98	1.5	3.4	3.4	3.8	19
Average		5.3	4.1	2.4	98	1.7	3.7	3.7	3.9	10
L.S.D. (.05)		1.4	1.0	0.4	ns	0.3	0.2	0.3	0.4	8

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 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 12 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
NDTX091908AB-2W	NATCH	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
NDTX081648CB-4W	NATCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
TX08352-2Ru	TXCH	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	15	0	0
NDTX081648CB-13W	NATCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
NDTX071109C-1W	NATCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081644CAB-2W	NATCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081648CB-1W	NATCH	1.0	2.0	2.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
COTX09022-5Ru/Y	TXCH	2.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	10	0
NDTX081648CB-2W	NATCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX071217CB-1W/Y	NATCH	3.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX060700C-1W	NATCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	3
Atlantic	TXCH	1.0	3.5	3.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	8
Average		1.3	2.6	1.3	4.0	1.0	5.0	5.0	5.0	5.0	5.0	2	1	1	1
L.S.D. (.05)												6	7	5	3

¹ 1=light to 5=dark
² 1=round to 5=long
³ 1=none to 5=heavy
⁴ 1=deep to 5=shallow
⁵ 1=light to 5=dark

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

Springlake
Table 7e.

Notes and general rating for all reps of 12 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
NDTX091908AB-2W	NATCH	, , , heavy set, small, variable size	heavy set++, , , light set, nice flesh	4.5, 4.5, 4.5, 4.5	3.9, 4, 3.9, 3.7
NDTX081648CB-4W	NATCH	nice shape, , ,	very heavy set and yield++, BOT++, Rizoctonia, , ,	3.7, 3.7, 3.7, 3.7	4.5, 4.5, 4.5, 4.5
TX08352-2Ru	TXCH	, , light russet,	, , heavy set, early??,	4, 4, 4, 4	4, 4, 3.8, 3.8
NDTX081648CB-13W	NATCH	, nice, ,	, nice flesh, slight brown center, ,	4.5, 4.5, 4.5, 4.5	4.4, 4.5, 3.8, 4
NDTX071109C-1W	NATCH	, , , nice	heavy set, deep nose, , , rough+, nice flesh	4, 4, 4, 4	3.5, 3.4, 3.8, 3.7
NDTX081644CAB-2W	NATCH	, , , heavy set, small, BOT	, very small tubers, move to small potato trial, small potato, nice	4.5, 4.5, 4.5, 4.5	4, 4, 4, 4.5
NDTX081648CB-1W	NATCH	, , light set,	, yield+, heavy set, light set,	4.8, 4.8, 4.8, 4.8	3.8, 4, 4, 3.7
COTX09022-5Ru/Y	TXCH	red splash, , ,	red eyes, pointing, , ,	4, 4, 4, 4	3.2, 3.2, 3.3, 3.3
NDTX081648CB-2W	NATCH	, , , heavy set, BOT	, , , nice shape	4.5, 4.5, 4.5, 4.5	3.8, 4, 3.8, 4.5
NDTX071217CB-1W/Y	NATCH	, , , light set	BOT, enter in both trials, , light set, smooth skin finish, nice flesh, early, move to yellow flesh trial	3.8, 3.8, 3.8, 3.8	4.5, 4.5, 4.5, 4.5
NDTX060700C-1W	NATCH	, , , small potato	nice flesh, vascular browning, , , small, poor skin finish, small	3.8, 3.8, 3.8, 3.8	3.5, 3.8, 3.2, 3.2
Atlantic	TXCH	variable size, , ,	poor internals, , , ugly flesh	3.5, 3.5, 3.5, 3.5	3, 2.5, 2.5, 2.5

Springlake
Table 7f.

Specific gravity, percent solids, chip color rating, good chip bad chip ratio, notes, and percentage of Zebra Defect at chipping of 12 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Gravity	% Solids	Chip Color ²	Good/Bad Chip Ratio	Notes ³	Percent Zebra Defect
NDTX091908AB-2W	NATCH	1.068	14.6	1	27/12	6 SE 1	0%
NDTX081648CB-4W	NATCH	1.069	14.9	1	30/10	10 SE2	0%
TX08352-2Ru	TXCH	1.081	17.0	3	1/19	1 SE 2,6 Dark	5%
NDTX081648CB-13W	NATCH	1.079	16.5	1	22/20	7 SE 1, 1 Dark	0%
NDTX071109C-1W	NATCH	1.068	14.6	1	30/10	10 SE 1	0%
NDTX081644CAB-2W	NATCH	1.071	15.2	1	28/11	8 SE 1	0%
NDTX081648CB-1W	NATCH	1.071	15.1	1	26/14	9 SE 1	0%
COTX09022-5Ru/Y	TXCH	1.071	15.3	3	4/16	5 SE 1, 3 BSB	5%
NDTX081648CB-2W	NATCH	1.073	15.4	1	19/14	14 SE 2	0%
NDTX071217CB-1W/Y	NATCH	1.066	14.3	3	32/7	3 SE 1	8%
NDTX060700C-1W	NATCH	1.090	18.5	1	36/5	5 SE 1	0%
Atlantic	TXCH	1.077	16.3	1	24/14	5 SE 1, 1 Dark	0%

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

¹1=poor, 5=excellent

²1=light, 3+=very dark

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

Outstanding Texas Advanced Russet Selections, 2013

Overall Summary - Springlake and Dalhart: The Texas Advanced Russet Selection Trials had 17 entries at Springlake and 35 at Dalhart. Russet Norkotah was the check variety for both locations. Based on both trials, COTX09042-2Ru, COTX09022-3RuRE/Y, COTX09052-2Ru, COTX08258-6Ru, AOTX95265-3Ru, TX0352-5Ru, COTX09052-1Ru, TX08351-5Ru, COTX08322-10Ru, COTX05095-2Ru/Y, COTX08214-2Ru, ATX84378-6Ru, TXNS410, TX08350-12Ru, ATX91137-1Ru, TXA549-1Ru, and ATX98152-3Ru will be re-evaluated in the 2014 season.

Texas Advanced Russet Trial

This russet trial consisted of 17 entries, including the check variety Russet Norkotah 278.

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

- TX08352-5Ru was the outstanding entry based on general rating and best of trial designations. COTX09042-2Ru also received a high general rating (Tables 8a and 8e).
- ATTX07039-2Ru had the highest total yield, while COTX09196-1Ru had the highest marketable yield. ATTX07039-2Ru had the highest yield of over 10 oz. tubers (Table 8a).
- COTX09075-4Ru had the highest yield of <4 oz. tubers (Table 8a).
- TX08352-5Ru had the highest yield of culls/No. 2 tubers (Table 8a).
- COTX09097-2Ru had the highest percentage of marketable and 10-18 oz. tubers (Table 8b).
- COTX05095-2Ru/Y had the highest percentage of <4 oz. tubers. ATTX07039-2Ru had the highest percentage of culls/No.2 tubers (Table 8b).
- COTX08258-6Ru and COTX05095-2Ru/Y had the highest specific gravity (Table 8b).
- COTX09042-2Ru, COTX08258-6Ru, COTX09101-1Ru, and TX08350-12Ru were the latest in maturity, while COTX05095-2Ru/Y and AOTX98202-1Ru were the earliest in maturity (Table 8c).

Comments on entries:

- ATTX07039-2Ru Oblong Russet poor netting, long, knobs on large tubers, nice white flesh, drop

- COTX09196-1Ru Long Russet pointed, long, Rhizoctonia, keep for yield, drop
- COTX09075-4Ru Long Russet skinny, poor skin finish, light skin, drop++
- TX08352-5Ru Oblong Russet large tubers, nice interior, BOT+++***
- ATTX07023-2Ru Oblong Russet blocky, nice flesh, too round??. low yield, drop+
- COTX09042-2Ru Oblong Russet nice shape, blocky, heavy set, smaller tubers, feathering, BOT

- AOTX95265-1Ru Long Russet light set, curved, pointed, small
- COTX08258-6Ru Oblong Russet light russet, blocky, nice, light skin, knobs,
- COTX09097-2Ru Oblong Russet pointed, blocky, drop++, bad rep pointed
- ATTX07039-4Ru Oblong Russet small, poor netting, drop++++
- Russet Norkotah 278 Long Russet pointed curved, pointed, long+, nice flesh
- COTX09101-1Ru Oblong Russet too round, too round, growth cracks, feathering, large tubers, poor skin finish, drop++
- COTX05095-2Ru/Y Oblong Russet pointed, light skin, poor skin finish and net, low yield, small, drop++,

- ATX84378-6Ru Oblong Russet drop, nice flesh, blocky, cut tubers, small, mixed rep
- TXNS410 Oblong Russet small, low yield, nice flesh
- AOTX98202-1Ru Oblong Russet blocky, nice shape, small, light set, pointed, drop,
- TX08350-12Ru Long Russet very light skin, low yield, bad rep, drop?

Summary:

TX08352-5Ru was the outstanding entry based on all factors.

Springlake
Table 8a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 17 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
ATTX07039-2Ru	TXRU	307.3	225.1	34.2	82.6	108.2	57.7	14.5	10.0	3.2	3.9
COTX09196-1Ru	TXRU	292.5	251.7	22.1	191.5	38.0	0.0	26.3	14.5	3.0	3.8
COTX09075-4Ru	TXRU	261.4	148.3	77.4	60.2	10.7	0.0	100.3	12.8	3.2	3.2
TX08352-5Ru	TXRU	260.3	207.1	33.5	146.9	26.6	8.3	29.4	15.6	4.8	5.0
ATTX07023-2Ru	TXRU	255.1	171.3	66.2	78.3	26.8	0.0	78.1	5.7	4.0	3.3
COTX09042-2Ru	TXRU	254.4	199.1	100.6	98.5	0.0	0.0	51.2	4.1	4.0	3.9
AOTX95265-1Ru	TXRU	250.6	183.9	88.2	72.6	23.2	0.0	65.0	1.7	3.0	3.6
COTX08258-6Ru	TXRU	227.1	178.4	78.5	80.2	19.7	0.0	46.7	2.1	3.8	3.7
COTX09097-2Ru	TXRU	207.1	185.3	50.5	0.0	134.8	4.8	15.9	1.0	3.7	3.2
ATTX07039-4Ru	TXRU	204.7	133.1	59.1	58.4	15.6	0.0	69.8	1.7	3.5	3.2
Russet Norkotah 278	TXRU	179.3	148.3	29.4	64.3	54.6	2.6	20.9	7.4	3.5	3.7
COTX09101-1Ru	TXRU	169.4	125.8	15.6	50.1	60.2	11.1	19.7	12.8	3.0	2.0
COTX05095-2Ru/Y	TXRU	168.4	97.5	56.9	39.2	1.4	0.0	67.1	3.8	3.0	3.0
ATX84378-6Ru	TXRU	152.5	104.4	42.7	50.5	11.2	0.0	44.4	3.6	3.2	3.7
TXNS410	TXRU	117.5	81.4	30.9	42.0	8.5	0.0	36.1	0.0	4.0	3.6
AOTX98202-1Ru	TXRU	102.7	70.2	31.1	39.1	0.0	0.0	31.5	1.0	3.5	3.1
TX08350-12Ru	TXRU	27.0	20.7	3.5	17.3	0.0	0.0	6.2	0.0	3.7	3.0
Average		202.2	148.9	48.3	68.9	31.7	5.0	42.5	5.8	3.5	3.5
L.S.D. (.05)		31.2	23.0	19.3	16.3	21.8	23.7	10.4	9.5		0.3

¹ 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 17 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
ATTX07039-2Ru	TXRU	75.5	11.5	29.1	35.0	16.4	5.0	3.1	1.059	13.1	Oblong	Russet
COTX09196-1Ru	TXRU	86.3	7.6	65.6	13.0	0.0	9.0	4.7	1.068	14.7	Long	Russet
COTX09075-4Ru	TXRU	56.6	29.7	23.0	3.9	0.0	38.4	4.9	1.070	15.0	Long	Russet
TX08352-5Ru	TXRU	79.7	13.4	57.2	9.0	3.7	11.4	5.3	1.063	13.8	Oblong	Russet
ATTX07023-2Ru	TXRU	67.2	25.9	31.0	10.2	0.0	30.6	2.3	1.071	15.2	Oblong	Russet
COTX09042-2Ru	TXRU	78.3	39.4	38.9	0.0	0.0	20.0	1.8	1.063	13.7	Oblong	Russet
AOTX95265-1Ru	TXRU	73.2	34.3	29.2	9.7	0.0	26.1	0.7	1.065	14.1	Long	Russet
COTX08258-6Ru	TXRU	78.5	33.5	35.6	9.4	0.0	20.4	1.1	1.077	16.2	Oblong	Russet
COTX09097-2Ru	TXRU	89.5	24.4	0.0	65.1	2.3	7.7	0.5	1.067	14.5	Oblong	Russet
ATTX07039-4Ru	TXRU	65.1	28.5	28.7	8.0	0.0	34.1	0.8	1.067	14.6	Oblong	Russet
Russet Norkotah 278	TXRU	82.7	16.2	35.8	30.7	1.5	11.9	3.9	1.065	14.1	Long	Russet
COTX09101-1Ru	TXRU	77.9	10.1	33.2	34.6	4.7	11.0	6.4	1.063	13.8	Oblong	Russet
COTX05095-2Ru/Y	TXRU	57.2	33.2	23.2	0.8	0.0	40.9	1.9	1.077	16.2	Oblong	Russet
ATX84378-6Ru	TXRU	68.4	27.8	33.0	7.5	0.0	29.2	2.4	1.068	14.7	Oblong	Russet
TXNS410	TXRU	69.0	26.6	35.3	7.2	0.0	31.0	0.0	1.067	14.4	Oblong	Russet
AOTX98202-1Ru	TXRU	68.8	29.1	39.7	0.0	0.0	30.4	0.8	1.070	14.9	Oblong	Russet
TX08350-12Ru	TXRU	76.4	11.6	64.8	0.0	0.0	23.6	0.0	1.065	14.1	Long	Russet
Average		73.6	23.7	35.5	14.4	1.7	22.4	2.4	1.067	14.5		
L.S.D. (.05)		8.5	8.2	8.8	8.1	7.0	4.5	3.4	0.003	0.7		

Springlake
Table 8c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 17 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
ATTX07039-2Ru	TXRU	3.1	9.3	1.5	89	2.0	3.9	4.1	4.0	3
COTX09196-1Ru	TXRU	4.3	7.7	2.2	73	1.5	2.9	4.0	4.4	3
COTX09075-4Ru	TXRU	6.9	3.6	2.3	88	1.8	3.8	3.6	3.9	10
TX08352-5Ru	TXRU	3.0	7.1	1.8	100	1.5	4.1	3.6	4.1	15
ATTX07023-2Ru	TXRU	4.6	4.6	2.8	100	2.0	3.9	3.5	4.1	11
COTX09042-2Ru	TXRU	6.6	3.9	2.0	82	1.5	3.3	4.8	4.4	0
AOTX95265-1Ru	TXRU	3.6	6.6	1.6	89	1.5	3.2	3.7	4.1	13
COTX08258-6Ru	TXRU	4.8	4.5	1.6	86	2.0	3.8	4.8	4.8	0
COTX09097-2Ru	TXRU	6.0	6.6	2.1	46	1.5	2.3	4.4	4.0	0
ATTX07039-4Ru	TXRU	4.7	4.1	1.7	89	2.0	3.8	3.9	4.4	0
Russet Norkotah 278	TXRU	2.8	6.5	1.7	85	1.6	3.1	4.3	4.2	1
COTX09101-1Ru	TXRU	4.4	6.6	1.6	50	1.5	2.8	4.8	4.7	0
COTX05095-2Ru/Y	TXRU	6.0	3.2	1.4	79	1.5	2.9	3.4	3.6	5
ATX84378-6Ru	TXRU	4.7	4.0	1.4	74	1.6	2.9	3.8	3.7	8
TXNS410	TXRU	3.3	4.2	2.1	70	1.5	2.7	3.5	3.4	13
AOTX98202-1Ru	TXRU	4.0	3.9	1.6	54	2.0	1.5	3.4	3.3	5
TX08350-12Ru	TXRU	2.7	4.7	1.4	23	1.9	1.0	4.6	2.8	0
Average		4.4	5.4	1.8	75	1.7	3.0	4.0	4.0	5
L.S.D. (.05)		1.5	1.1	0.2	18	0.2	0.8	0.3	0.4	8

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 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 17 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
ATX07039-2Ru	TXRU	1.0	3.8	4.0	3.8	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09196-1Ru	TXRU	1.0	3.0	3.5	2.5	3.8	5.0	5.0	5.0	5.0	5.0	5	0	0	0
COTX09075-4Ru	TXRU	1.0	3.5	2.5	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX08352-5Ru	TXRU	1.0	3.7	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX07023-2Ru	TXRU	1.0	2.1	3.8	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09042-2Ru	TXRU	1.0	3.5	3.0	4.0	4.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
AOTX95265-1Ru	TXRU	1.0	5.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08258-6Ru	TXRU	1.8	3.8	3.0	3.8	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09097-2Ru	TXRU	1.0	3.5	2.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX07039-4Ru	TXRU	1.0	2.0	4.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah 278	TXRU	1.0	4.0	4.3	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09101-1Ru	TXRU	1.0	2.8	2.8	4.0	3.5	5.0	5.0	5.0	5.0	3.5	5	0	0	0
COTX05095-2Ru/Y	TXRU	2.5	4.0	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX84378-6Ru	TXRU	1.0	3.5	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXNS410	TXRU	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX98202-1Ru	TXRU	1.0	3.5	3.7	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX08350-12Ru	TXRU	1.0	3.5	2.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.1	3.5	3.4	3.8	3.8	5.0	5.0	5.0	5.0	4.8	1	0	0	0
L.S.D. (.05)												3			

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Springlake
Table 8e.

Notes and general rating for all reps of 17 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
ATTX07039-2Ru	TXRU	, , poor netting, drop,	long, knobs on large tubers, , , nice white flesh,	3.2, 3.2, 3.2, 3.2	3.9, 3.9, 3.9, 3.9
COTX09196-1Ru	TXRU	pointed, drop, , ,	long, Rhizoctonia, keep for yield, , ,	3, 3, 3, 3	3.8, 3.8, 3.8, 3.8
COTX09075-4Ru	TXRU	, , skinny, drop,	poor skin finish, , light skin, drop++, ,	3.2, 3.2, 3.2, 3.2	3, 3, 3.4, 3.4
TX08352-5Ru	TXRU	large tubers, BOT+++***, , ,	BOT+++ , nice interior, , ,	4.8, 4.8, 4.8, 4.8	5, 5, 5, 5
ATTX07023-2Ru	TXRU	, drop, ,	, blocky, nice flesh, too round??, , low yield, drop+	4, 4, 4, 4	3, 3.8, 3.5, 3
COTX09042-2Ru	TXRU	nice shape, BOT, , ,	block, heavy set, , smaller tubers, feathering,	4, 4, 4, 4	3.9, 3.9, 3.9, 3.9
AOTX95265-1Ru	TXRU	, , ,	light set, curved, pointed, small, , ,	3, 3, 3, 3	3.5, 3.5, 3.6, 3.6
COTX08258-6Ru	TXRU	light russet, , ,	blocky, nice, , light skin, knobs,	3.8, 3.8, 3.8, 3.8	3.7, 3.7, 3.7, 3.7
COTX09097-2Ru	TXRU	pointed, drop, , ,	blocky, drop++, , bad rep pointed,	3.7, 3.7, 3.7, 3.7	3.3, 3.3, 3, 3
ATTX07039-4Ru	TXRU	drop, drop, ,	small, poor netting, drop++, , ,	3.5, 3.5, 3.5, 3.5	3.2, 3.2, 3.2, 3.2
Russet Norkotah 278	TXRU	pointed curved, , ,	pointed, long+, nice flesh, , ,	3.5, 3.5, 3.5, 3.5	3.5, 3.8, 3.5, 3.8
COTX09101-1Ru	TXRU	too round, drop, , ,	too round, growth cracks, drop++, , feathering, large tubers, poor skin finish,	3, 3, 3, 3	2, 2, 2, 2
COTX05095-2Ru/Y	TXRU	, drop, ,	, pointed, light skin, poor skin finish and net, , low yield, drop, small	3, 3, 3, 3	3, 3, 3, 3
ATX84378-6Ru	TXRU	, drop, ,	, nice flesh, blocky, cut tubers, small, mixed rep	3.2, 3.2, 3.2, 3.2	3.8, 3.8, 3.5, 3.5
TXNS410	TXRU	, small, ,	, low yield, small, nice flesh, ,	4, 4, 4, 4	3.6, 3.6, 3.6, 3.6
AOTX98202-1Ru	TXRU	blocky, blocky, ,	nice shape, small, light set, , small, pointed, drop,	3.5, 3.5, 3.5, 3.5	3.7, 3.7, 2.5, 2.5
TX08350-12Ru	TXRU	drop?, , ,	, very light skin, low yield, , bad rep, low yield	3.7, 3.7, 3.7, 3.7	3, 3, 3, 3

Outstanding Texas Advanced Red Selections, 2013

Overall Summary - Springlake and Dalhart: The Texas Advanced Red Selection Trials had seven entries at Springlake and nine at Dalhart. Red LaSoda and Chieftain were the check variety for both locations. Based on both trials, NDTX092231C-1R, NDTX050070-1R, TX08375-3R, NDTX081572B-1R (move to small potato trial), TX08363-2R, and COTX07054-2R will be re-evaluated in the 2014 season.

Texas Advanced Red Trial

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

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

- COTX07054-2R was the outstanding entry based on general ratings and best of trial notations (Tables 9a and 9e).
- Chieftain had the highest total, and marketable yield (Table 9a).
- NDTX081572B-1R had the highest yield of <4 oz. tubers (Table 9a).
- Red LaSoda had the highest percentage of marketable yield (Table 9b).
- COTX07054-2R had the highest percentage of <4 oz. tubers (Table 9b).
- NDTX092231C-1R and TX08375-1R were the latest maturing entries, while NDTX081572B-1R was the earliest maturing entry (Table 9c).
- TX08375-1R exhibited the most feathering (Table 9d).

Comments on entries:

- Chieftain Oblong Red light skin color, heavy set, low yield
- NDTX092231C-1R Oblong Red nice color, oversized, deep eyes, drop+
- NDTX081572B-1R Round Red Modoc like, heavy set, small potato, deep eyes, low yield, drop
- COTX07054-2R Oblong Red nice yield, variable size, very nice skin color and shape, low yield, feathering, good skin finish, BOT
- TX08375-1R Oblong Red good color, eye brows, red to purple skin, poor skin finish, drop
- NDTX050070-1R Round Red small potato, some buff skin, nice skin, feathering, drop??
- Red LaSoda Oblong Red deep eyes, rough

Summary:

COTX07054-2R was the outstanding entry based on all factors.

Springlake
Table 9a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 7 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
Chieftain	TXRD	283.8	219.9	83.3	82.3	54.3	0.0	61.9	2.1	4.0	3.7
NDTX092231C-1R	TXRD	275.2	198.1	67.8	94.7	35.6	0.0	77.1	0.0	4.0	3.5
NDTX081572B-1R	TXRD	192.7	52.7	32.7	20.1	0.0	0.0	140.0	0.0	3.0	3.0
COTX07054-2R	TXRD	180.8	97.5	65.3	31.1	1.0	0.0	81.9	1.4	4.0	4.2
TX08375-1R	TXRD	165.6	108.6	49.8	50.1	8.6	0.0	54.6	2.4	3.5	3.0
NDTX050070-1R	TXRD	165.6	115.3	56.9	41.0	17.5	0.0	47.4	2.9	3.0	2.9
Red LaSoda	TXRD	158.2	133.1	32.5	47.9	52.7	0.0	23.0	2.1	4.0	3.2
Average		203.1	132.2	55.5	52.4	24.2	0.0	69.4	1.6	3.6	3.3
L.S.D. (.05)		42.4	55.5	23.5	27.9	ns	ns	49.4	ns	ns	0.3

¹ 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 7 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Chieftain	TXRD	75.7	31.0	28.1	16.6	0.0	23.7	0.6	1.058	12.9	Oblong	Red
NDTX092231C-1R	TXRD	74.1	24.0	35.9	14.2	0.0	25.9	0.0	1.061	13.5	Oblong	Red
NDTX081572B-1R	TXRD	28.3	18.1	10.2	0.0	0.0	71.7	0.0	1.065	14.2	Round	Red
COTX07054-2R	TXRD	52.9	35.1	17.4	0.4	0.0	46.6	0.5	1.067	14.4	Oblong	Red
TX08375-1R	TXRD	64.1	29.7	29.5	4.9	0.0	34.1	1.7	1.057	12.7	Oblong	Red
NDTX050070-1R	TXRD	70.7	33.6	25.7	11.4	0.0	27.7	1.6	1.059	13.1	Round	Red
Red LaSoda	TXRD	82.5	20.1	31.4	31.0	0.0	15.8	1.7	1.055	12.4	Oblong	Red
Average		64.0	27.4	25.5	11.2	0.0	35.1	0.9	1.061	13.3		
L.S.D. (.05)		19.1	10.3	11.8	15.9	ns	18.5	ns	ns	ns		

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 7 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
Chieftain	TXRD	6.1	4.8	2.5	86	1.9	3.4	3.7	3.7	5
NDTX092231C-1R	TXRD	5.0	4.7	2.9	100	1.5	3.9	4.8	4.7	0
NDTX081572B-1R	TXRD	7.3	2.3	3.1	96	2.0	3.3	3.5	3.7	8
COTX07054-2R	TXRD	5.0	3.2	3.7	94	2.0	3.5	4.0	3.8	3
TX08375-1R	TXRD	3.7	3.7	2.3	100	2.0	3.9	4.8	4.6	0
NDTX050070-1R	TXRD	3.9	4.3	2.2	85	1.9	3.3	3.6	3.9	4
Red LaSoda	TXRD	2.8	5.6	2.1	88	1.9	3.8	4.5	4.6	0
Average		4.8	4.1	2.7	93	1.9	3.6	4.1	4.1	3
L.S.D. (.05)		2.1	1.4	0.6	ns	0.2	0.4	0.7	0.6	ns

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 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 7 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
Chieftain	TXRD	1.0	3.5	1.0	4.0	2.5	5.0	5.0	5.0	5.0	4.0	0	0	0	0
NDTX092231C-1R	TXRD	1.0	3.5	1.0	4.0	3.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
NDTX081572B-1R	TXRD	1.0	2.0	1.0	3.0	3.5	5.0	5.0	5.0	5.0	4.0	0	0	0	0
COTX07054-2R	TXRD	1.0	2.1	1.0	4.0	4.0	5.0	5.0	5.0	5.0	3.8	0	0	0	0
TX08375-1R	TXRD	1.0	3.5	1.0	4.0	3.5	5.0	5.0	5.0	5.0	3.0	0	0	0	0
NDTX050070-1R	TXRD	1.0	3.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
Red LaSoda	TXRD	1.0	3.5	1.0	2.0	3.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
Average L.S.D. (.05)		1.0	3.1	1.0	3.6	3.4	5.0	5.0	5.0	5.0	3.8	0	0	0	0

¹ 1=light to 5=dark
² 1=round to 5=long
³ 1=none to 5=heavy
⁴ 1=deep to 5=shallow
⁵ 1=light to 5=dark

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

Springlake
Table 9e.

Notes and general rating for all reps of 7 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
Chieftain	TXRD	, , light skin color,	, , light skin color, heavy set, low yield	4, 4, 4, 4	4, 3.8, 3.5, 3.5
NDTX092231C-1R	TXRD	, , nice color,	, , oversized, deep eyes, drop+, heavy set, small potato, deep eyes, small tubers, low	4, 4, 4, 4	3.6, 3.6, 3.4, 3.4
NDTX081572B-1R	TXRD	, Modoc like, drop, , nice yield, variable size, ,	yield, very nice skin color and shape, some feathering, BOT,	3, 3, 3, 3	2.8, 3, 3, 3
COTX07054-2R	TXRD	,	low yield, feathering, good skin finish	4, 4, 4, 4	4.4, 4, 3.8, 4.4
TX08375-1R	TXRD	, , good color, drop?,	eye brows, red to purple skin, , poor skin finish, drop, some buff skin, feathering, drop? Nice skin, feathering, ,	3.5, 3.5, 3.5, 3.5	3, 3, 3, 3
NDTX050070-1R	TXRD	small potato, drop?, , ,	,	3, 3, 3, 3	3.3, 2.8, 2.8, 2.8
Red LaSoda	TXRD	, , , deep eyes	, , , rough, deep eyes	4, 4, 4, 4	3, 3, 3.3, 3.3

Outstanding Texas Advanced Red/Yellow Selections, 2013

Overall Summary - Springlake and Dalhart. The Texas Advanced Red Skin Yellow Flesh Selection Trials included three entries at Dalhart. Based on this trial, the following entries will be tested again in 2014: TX09420-1R/Y and TX09420-3R/Y.

Outstanding Texas Advanced White/Yellow Selections, 2013

Overall Summary - Springlake and Dalhart. The Texas Advanced White Skin Yellow Flesh Selection Trials included five entries at Springlake and six at Dalhart. Yukon Gold was the check variety for both locations. Based on both trials, the following entries will be tested again in 2014: TX08385-1Y/Y, ATTX07230-1Y/RE/Y, COTX07382-2W/Y and NDTX059759-3Pinto/Y.

Texas Advanced White/Yellow Trial

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

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

- COTX07382-2W/Y received the highest general ratings and a best of trial notation (Tables 10a).
- TX08385-1Y/Y had the highest total and marketable yield (Table 10a).
- TX08385-1Y/Y had the highest yield of < 4 oz. tubers (Table 10a).
- Yukon Gold had the highest percentage of marketable yield. NDTX059759-3Pinto/Y had the highest percentage of <4 oz. tubers (Table 10b).
- COTX07382-2W/Y had the highest specific gravity (Table 10b).
- TX08385-1Y/Y and NDTX059759-3Pinto/Y were the latest maturing entries, while COTX07382-1W/Y was the earliest maturing (Table 10c).
- NDTX059759-3Pinto/Y and Yukon Gold had the darkest yellow flesh (Table 10d).
- Yukon Gold had 13% hollow heart (Table 10d).

Comments on entries:

- TX08385-1Y/Y Oblong White heavy set, a little rough on large tubers, very nice
- COTX07382-2W/Y Oblong White light flesh, smooth, very nice, heavy set, large tubers, BOT
- COTX07382-1W/Y Oblong White light flesh, better yield, lots of digger cuts, light set, nice appearance, low yield, bad rep drop
- NDTX059759-3Pinto/Y Oblong Red Spl low yield, better yield, nice red skin color, nice flesh
- Yukon Gold Oblong White light set, nice shape, poor internals,

Summary:

COTX07382-2W/Y was the best variety based on all factors.

Springlake
Table 10a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 5 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
TX08385-1Y/Y	TXW/Y	300.6	201.9	86.3	100.9	14.7	0.0	96.1	2.6	3.8	3.7
COTX07382-2W/Y	TXW/Y	234.2	199.1	76.2	96.6	26.3	3.8	31.3	0.0	4.0	4.0
COTX07382-1W/Y	TXW/Y	226.6	166.6	53.1	113.6	0.0	4.0	56.0	0.0	3.6	3.2
NDTX059759-3Pinto/Y	TXW/Y	143.1	90.9	48.4	42.5	0.0	0.0	52.2	0.0	4.5	4.0
Yukon Gold	TXW/Y	140.5	130.3	69.7	27.5	33.2	0.0	10.2	0.0	3.8	3.6
Average		209.0	157.8	66.7	76.2	14.8	1.6	49.2	0.5	3.9	3.7
L.S.D. (.05)		47.4	41.8	ns	4.7	ns	ns	20.8	ns	ns	ns

¹ 1=very poor to 5= excellent

Springlake
Table 10b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 5 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
TX08385-1Y/Y	TXW/Y	66.9	28.4	34.1	4.4	0.0	32.1	1.0	1.063	13.8	Oblong	White
COTX07382-2W/Y	TXW/Y	84.4	33.1	40.9	10.4	1.6	14.0	0.0	1.072	15.3	Oblong	White
COTX07382-1W/Y	TXW/Y	73.0	24.0	49.0	0.0	1.6	25.4	0.0	1.069	14.8	Oblong	White
NDTX059759-3Pinto/Y	TXW/Y	63.8	33.8	30.0	0.0	0.0	36.2	0.0	1.058	12.9	Oblong	Red Splash
Yukon Gold	TXW/Y	92.2	43.7	23.0	25.5	0.0	7.8	0.0	1.066	14.4	Oblong	White
Average		76.1	32.6	35.4	8.1	0.6	23.1	0.2	1.066	14.2		
L.S.D. (.05)		9.1	ns	ns	13.0	ns	9.0	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 5 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
TX08385-1Y/Y	TXW/Y	7.4	3.8	2.8	90	1.5	4.0	4.5	4.7	0
COTX07382-2W/Y	TXW/Y	4.2	4.7	2.0	97	1.8	3.6	3.3	3.7	30
COTX07382-1W/Y	TXW/Y	5.0	4.4	2.1	87	1.6	3.5	2.8	3.3	48
NDTX059759-3Pinto/Y	TXW/Y	3.6	3.5	1.5	95	1.6	3.4	4.8	4.7	0
Yukon Gold	TXW/Y	2.9	11.6	2.1	40	1.5	2.0	4.0	3.9	1
Average		4.6	5.6	2.1	82	1.6	3.3	3.9	4.1	16
L.S.D. (.05)		1.4	4.5	0.4	15	ns	0.8	0.7	0.5	11

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake
Table 10d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 5 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
TX08385-1Y/Y	TXW/Y	2.1	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX07382-2W/Y	TXW/Y	2.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX07382-1W/Y	TXW/Y	2.3	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059759-3Pinto/Y	TXW/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
Yukon Gold	TXW/Y	3.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	13	0	0	0
Average		2.5	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
L.S.D. (.05)															

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Springlake
Table 10e.

Notes and general rating for all reps of 5 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
TX08385-1Y/Y	TXW/Y	, heavy set, flesh (2), ,	a little rough on large tubers, very nice, ,	3.8, 3.8, 3.8, 3.8	3.8, 3.8, 3.5, 3.7
COTX07382-2W/Y	TXW/Y	, light flesh, ,	smooth, vety nice, heavy set, BOT, large tubers, , better yield, lots of digger cuts, , light set, bad rep drop,	4, 4, 4, 4	4, 4, 4, 4
COTX07382-1W/Y	TXW/Y	, , , light flesh	nice apperence, low yield, light flesh	3.6, 3.6, 3.6, 3.6	3.7, 3.5, 2, 3.6
NDTX059759-3Pinto/Y	TXW/Y	, , low yield,	, better yield, low yield, nice red skin color, nice flesh,	4.5, 4.5, 4.5, 4.5	4, 4, 4, 4
Yukon Gold	TXW/Y	, , light set, nice shape,	, , light set, poor internals,	3.8, 3.8, 3.8, 3.8	3.5, 3.5, 3.7, 3.7

Outstanding Texas Advanced Small Potato Selections, 2013

Overall Summary – Springlake and Dalhart. The Texas Advanced Small Potato Selection Trial consisted of fifteen entries at Springlake and twenty-one entries at Dalhart. The following entries will be tested again in 2014: NDTX081451CB-1Y/Y, NDTX092238C-1P/W, ATX05202-3W/Y, ATX06254-2R, NDTX092238C-4P/W, ATX05186-1R, NDTX092238C-3P/W, ATTX06246-1R, ATX06264-4R/Y, ATTX98462-3R/Y, TX09406-1P/P, NDTX071258B-1R, COTX04050-1P/P, ATTX98444-16R/Y, ATTX05186-3W/Y, and COTX04193-2R/Y.

Texas Advanced Small Potato Selection Trial

This trial consisted of fifteen entries.

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

- ATX06264-4R/Y, COTX04193-2R/Y, and ATTX05175-1R/Y were the outstanding entries for this trial based on general ratings and best of trial notations (Tables 11a and 11e).
- NDTX081451CB-1W/Y and ATTX06246-1R had the highest total and marketable yield, while F07049 had the highest yield of < 1 inch tubers. ATX06264-4R/Y had the highest yield of over 3 inch tubers (Table 11a)
- ATTX98444-16R/Y had the highest percentage of marketable tubers. ATX06264-4R/Y had the highest percentage of over 3 inch tubers (Table 11b).
- F07049 had the highest percentage of <1 inch tubers (Table 11b).
- ATX05186-2R and NDTX050184-1R/Y had the highest average number of tubers per plant (Table 11c).
- NDTX081451CB-1W/Y, ATX05186-2R, ATX05202-3W/Y, ATX06264-4R/Y, ATX07305-1W/Y, ATTX05186-3W/Y, COTX04050-1P/P ATTX05175-1R/Y, NDTX059886-1W/Y, and NDTX050184-1R/Y were the latest maturing entries, while COTX04193-2R/Y, NDTX071258B-1R, and F07049 were the earliest maturing entries (Table 11c).
- ATTX05175-1R/Y had the darkest yellow flesh. COTX04050-1P/P had very dark purple flesh (Table 11d).

Comments on entries:

- NDTX081451CB-1W/Y Round White heavy set, good size distribution, some larger tubers, nice shape and skin, keep
- ATTX06246-1R Oblong Red very white flesh, nice skin, heavy set, *CSS, dark red skin, some growth cracks
- ATX05186-2R Round Red small, very white flesh, good skin finish, nice uniform shape, deep eyes
- ATX05202-3W/Y Round White some russeting, some large, light yellow flesh, feathering, some culls, drop
- ATX06264-4R/Y Oblong Red heavy set, very dark, skin color, nice flesh, some large, good skin finish, BOT-
- ATX07305-1W/Y Round White light flesh, too oblong?, heavy set, poor shape+, stem attachment+, drop?
- ATTX05186-3W/Y Round White light flesh, nice shape+, heavy set+, nice small size++
- COTX04050-1P/P Round Purple heavy set, very dark flesh, nice skin
- ATTX98444-16R/Y Oblong Red heavy set, light skin, some culls, lots of small tubers
- COTX04193-2R/Y Round Red *CSS, nice shape and color, nice flesh, good skin finish, BOT++
- NDTX071258B-1R Round Red very white flesh and red skin, good skin finish, nice shape and skin, *CSS, BOT
- F07049 Round Red heavy set, very white flesh, small, very light skin
- ATTX05175-1R/Y Round Red heavy set, small, good skin color, light skin+, nice flesh, light set, BOT
- NDTX059886-1W/Y Round White some larger tubers, move to white yellow trial, some buff skin, shape??
- NDTX050184-1R/Y Round Red light set, nice skin, light flesh, drop

Summary:

ATX06264-4R/Y, COTX04193-2R/Y, and ATTX05175-1R/Y were the outstanding entries for this trial based on all factors.

Springlake
Table 11a.

Total yield, total yield of U.S. No.1, under 1 inch and culls/No.2 potatoes and general rating of 15 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 3 inch	Under 1 inch	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading
			Total Yield	1-2 inch	2-3 inch					
NDTX081451CB-1W/Y	TXSM	298.9	238.9	60.2	129.1	49.6	10.4	0.0	4.0	3.7
ATTX06246-1R	TXSM	289.9	234.2	66.6	119.4	48.2	7.4	0.0	3.5	3.7
ATX05186-2R	TXSM	223.3	200.5	75.7	116.5	8.3	14.5	0.0	3.8	3.9
ATX05202-3W/Y	TXSM	248.1	206.6	54.1	115.8	36.6	4.8	0.0	2.0	3.4
ATX06264-4R/Y	TXSM	252.7	188.6	50.8	79.7	58.1	6.1	0.0	3.3	3.8
ATX07305-1W/Y	TXSM	196.0	174.6	73.6	89.7	11.2	10.2	0.0	3.7	3.4
ATTX05186-3W/Y	TXSM	203.3	168.4	72.6	76.1	19.7	15.2	0.0	3.7	3.8
COTX04050-1P/P	TXSM	192.7	162.5	78.1	69.8	14.5	15.7	0.0	4.0	3.8
ATTX98444-16R/Y	TXSM	176.0	160.1	78.3	79.9	1.9	14.0	0.0	3.7	3.7
COTX04193-2R/Y	TXSM	187.2	158.3	70.0	66.0	22.3	6.6	0.0	4.0	4.0
NDTX071258B-1R	TXSM	141.1	124.1	71.0	49.8	3.3	13.7	0.0	4.5	3.8
F07049	McCain	131.9	107.9	81.1	26.8	0.0	24.0	0.0	3.7	3.6
ATTX05175-1R/Y	TXSM	129.3	115.6	81.4	32.8	1.4	12.3	0.0	4.0	3.5
NDTX059886-1W/Y	TXSM	137.9	110.6	26.6	64.3	19.7	7.6	0.0	3.8	3.7
NDTX050184-1R/Y	TXSM	126.5	109.2	26.3	71.2	11.8	5.5	0.0	3.0	3.5
Average		195.6	164.0	64.4	79.1	20.4	11.2	0.0	3.6	3.7
L.S.D. (.05)		61.3	43.1	23.4	30.0	24.6	8.5		0.1	0.1

¹ 1=very poor to 5= excellent

Springlake
Table 11b.

Percent by weight of U.S. No. 1, under 1 inch and culls/No.2 potatoes, tuber type and skin type of 15 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1			Percent By Weight			Tuber Type	Skin Type
		Total Yield	1-2 inch	2-3 inch oz	Over 3 inch	Under 1 inch	Culls/ No. 2		
NDTX081451CB-1W/Y	TXSM	81.2	21.5	44.2	15.5	3.4	0.0	Round	White
ATTX06246-1R	TXSM	81.3	23.3	41.6	16.3	2.5	0.0	Oblong	Red
ATX05186-2R	TXSM	89.8	33.9	52.1	3.8	6.4	0.0	Round	Red
ATX05202-3W/Y	TXSM	85.1	22.8	49.7	12.6	2.2	0.0	Round	White
ATX06264-4R/Y	TXSM	74.6	19.8	31.6	23.1	2.3	0.0	Oblong	Red
ATX07305-1W/Y	TXSM	89.9	38.4	46.5	5.0	5.1	0.0	Round	White
ATTX05186-3W/Y	TXSM	83.4	37.3	37.3	8.8	7.8	0.0	Round	White
COTX04050-1P/P	TXSM	84.4	40.8	36.3	7.3	8.3	0.0	Round	Purple
ATTX98444-16R/Y	TXSM	91.2	46.8	43.6	0.7	8.1	0.0	Oblong	Red
COTX04193-2R/Y	TXSM	86.1	39.9	36.2	9.9	4.0	0.0	Round	Red
NDTX071258B-1R	TXSM	88.4	48.9	37.2	2.2	9.4	0.0	Round	Red
F07049	McCain	83.2	62.4	20.8	0.0	16.8	0.0	Round	Red
ATTX05175-1R/Y	TXSM	89.4	63.9	24.4	1.1	9.5	0.0	Round	Red
NDTX059886-1W/Y	TXSM	81.1	21.0	46.3	13.8	5.1	0.0	Round	White
NDTX050184-1R/Y	TXSM	86.7	20.8	56.6	9.4	3.9	0.0	Round	Red
Average		85.0	36.1	40.3	8.6	6.3	0.0		
L.S.D. (.05)		6.7	15.4	13.6	7.8	7.8			

Springlake
Table 11c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 15 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
NDTX081451CB-1W/Y	TXSM	8.3	3.0	3.5	100	1.9	4.2	4.7	5.0	0
ATTX06246-1R	TXSM	9.4	2.6	3.1	98	1.8	3.6	3.9	4.0	6
ATX05186-2R	TXSM	10.9	1.8	2.8	96	1.8	3.6	4.4	4.7	0
ATX05202-3W/Y	TXSM	7.9	2.8	2.2	92	1.8	3.4	4.5	4.4	0
ATX06264-4R/Y	TXSM	8.0	3.0	2.3	89	2.0	3.6	4.3	4.1	0
ATX07305-1W/Y	TXSM	8.6	2.1	2.8	90	2.0	3.7	4.8	4.7	0
ATTX05186-3W/Y	TXSM	9.2	1.8	3.8	100	2.0	4.0	4.9	4.9	0
COTX04050-1P/P	TXSM	9.0	1.8	2.3	100	2.0	3.4	4.8	4.5	0
ATTX98444-16R/Y	TXSM	8.0	1.8	2.7	100	1.9	2.8	3.9	4.0	3
COTX04193-2R/Y	TXSM	7.0	2.2	2.4	97	1.8	3.2	3.3	3.5	18
NDTX071258B-1R	TXSM	6.4	1.9	2.9	100	2.0	3.4	3.4	3.6	14
F07049	McCain	8.8	1.3	3.9	100	2.0	3.5	3.5	3.6	13
ATTX05175-1R/Y	TXSM	7.0	1.6	3.8	100	2.0	3.5	4.6	4.4	0
NDTX059886-1W/Y	TXSM	6.9	2.5	3.1	68	2.0	3.1	4.4	4.1	0
NDTX050184-1R/Y	TXSM	11.5	2.5	3.0	46	2.0	2.0	4.8	4.6	0
Average		8.5	2.2	3.0	92	1.9	3.4	4.3	4.3	4
L.S.D. (.05)		3.3	0.4	0.2	13	ns	0.2	0.7	0.4	0

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 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 15 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
NDTX081451CB-1W/Y	TXSM	2.5	2.0	3.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
ATTX06246-1R	TXSM	1.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	4.0	0	0	0	0
ATX05186-2R	TXSM	1.0	1.0	1.0	3.5	3.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
ATX05202-3W/Y	TXSM	1.7	3.0	4.0	4.0	1.0	5.0	5.0	5.0	5.0	3.3	0	0	0	0
ATX06264-4R/Y	TXSM	3.0	2.0	1.0	3.8	4.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
ATX07305-1W/Y	TXSM	2.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
ATTX05186-3W/Y	TXSM	2.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
COTX04050-1P/P	TXSM	5.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
ATTX98444-16R/Y	TXSM	2.1	2.0	1.0	12.4	2.5	5.0	5.0	5.0	5.0	4.0	0	0	0	0
COTX04193-2R/Y	TXSM	4.0	1.0	1.0	2.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX071258B-1R	TXSM	1.0	1.0	1.0	4.0	2.6	5.0	5.0	5.0	5.0	4.0	0	0	0	0
F07049	McCain	1.0	1.0	1.0	4.0	2.8	5.0	5.0	5.0	5.0	4.0	0	0	0	0
ATTX05175-1R/Y	TXSM	3.5	1.0	1.0	4.0	2.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
NDTX059886-1W/Y	TXSM	2.0	2.0	3.5	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
NDTX050184-1R/Y	TXSM	2.5	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
Average L.S.D. (.05)		2.3	1.8	1.5	4.4	2.6	5.0	5.0	5.0	5.0	4.0	0	0	0	0

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Springlake
Table 11e.

Notes and general rating for all reps of 15 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
NDTX081451CB-1W/Y	TXSM	, heavy set, keep, ,	good size distribution, some larger tubers, heavy set, nice shape and skin, keep, some larger tubers,	4, 4, 4, 4	3.7, 3.5, 3.7, 3.7
ATTX06246-1R	TXSM	, very white flesh, nice skin, ,	heavy set, *CSS, dark red skin, white flesh, , some growth cracks	3.5, 3.5, 3.5, 3.5	3.8, 3.5, 3.7, 3.6
ATX05186-2R	TXSM	, , small, very white flesh,	good skin finish, good skin finish, nice uniform shape, deep eyes, white flesh, nice uniform shape, deep eyes,	3.8, 3.8, 3.8, 3.8	3.9, 3.9, 3.9, 3.9
ATX05202-3W/Y	TXSM	drop, , ,	some russetting, some large, light yellow flesh, , , feathering, some culls	2, 2, 2, 2	3.4, 3.4, 3.4, 3.4
ATX06264-4R/Y	TXSM	, drop?, ,	heavy set, very dark, skin color, nice flesh, BOT-, some large, good skin finish	3.3, 3.3, 3.3, 3.3	3.8, 3.8, 3.8, 3.8
ATX07305-1W/Y	TXSM	, light flesh, ,	, light flesh, too oblong?, heavy set, poor shape+, stem attachment+, drop?	3.7, 3.7, 3.7, 3.7	3.4, 3.5, 3.3, 3.5
ATTX05186-3W/Y	TXSM	nice shape, , ,	light flesh, nice shape+, light flesh, nice shape+, heavy set+, nice small size++, heavy set+, nice small size++	3.7, 3.7, 3.7, 3.7	3.8, 3.8, 3.8, 3.8
COTX04050-1P/P	TXSM	, , heavy set, very dark flesh, nice skin,	heavy set, dark purple skin and flesh, dark purple skin and flesh	4, 4, 4, 4	3.8, 3.8, 3.8, 3.8
ATTX98444-16R/Y	TXSM	heavy set, , ,	light skin, some culls, heavy set, lots of small tubers, , *CSS, nice shape and color, BOT++, nice flesh, , good skin finish	3.7, 3.7, 3.7, 3.7	3.4, 3.8, 3.8, 3.8
COTX04193-2R/Y	TXSM	, BOT, ,		4, 4, 4, 4	4, 3.8, 4, 4
NDTX071258B-1R	TXSM	, , , very white flesh and red skin, BOT	good skin finish, , , nice shape and skin, *CSS	4.5, 4.5, 4.5, 4.5	3.8, 3.8, 3.8, 3.7
F07049	McCain	light skin, flesh(2), , ,	heavy set, very, white flesh, small, very light skin	3.7, 3.7, 3.7, 3.7	3.7, 3.5, 3.5, 3.5
ATTX05175-1R/Y	TXSM	, , heavy set, good color, BOT, some larger tubers, move to white yell trial, ,	small, good skin color, , light skin+, nice flesh, light set	4, 4, 4, 4	3.6, 3.3, 3.5, 3.4
NDTX059886-1W/Y	TXSM	,	some buff skin,, some buff skin,, shape??, shape??	3.8, 3.8, 3.8, 3.8	3.7, 3.7, 3.6, 3.6
NDTX050184-1R/Y	TXSM	, , light set, drop,	light set, light set, nice skin, light flesh, nice skin, light flesh	3, 3, 3, 3	3.5, 3.5, 3.5, 3.5

Outstanding Texas Advanced Fingerling Selections, 2013

Overall Summary – Springlake and Dalhart. The Texas Advanced Fingerling Selection Trial consisted of five entries in Springlake and fourteen entries in Dalhart. Banana and Purple Peruvian were the checks. The following entries COTX08044-1R/R, COTX08365-3P/P, COTX08365-4R/R, COTX08365-1P/P, COTX08045-2R/R will be tested again in 2013.

Texas Advanced Fingerling Selection Trial

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

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

- COTX08365-1P/P, COTX08365-3P/P, and TX08378-3R/R were the outstanding entries for this trial based on general ratings (Table 12a).
- TX08378-3R/R had the highest total and marketable yield (Table 12a)
- COTX08365-1P/P had the highest yield of < 1 inch tubers. COTX08365-3P/P had the highest yield of oversized tubers. Banana and Purple Peruvian had the highest yield of culls/No. 2 tubers (Table 12a).
- COTX08365-1P/P, COTX08365-3P/P, and TX08378-3R/R had the highest percentage of marketable yield. COTX08365-3P/P had the highest percentage of oversized tubers. COTX08365-1P/P had the highest percentage of <1 inch tubers. Banana and Purple Peruvian had the highest percentage of culls/No. 2 tubers (Table 12b).
- TX08378-3R/R had the highest average number of tubers per plant (Table 12c).
- All of the entries were late in maturity (Table 12c).

Comments on entries:

- TX08378-3R/R Long Red heavy set, bright red skin, red/yellow flesh, nice fingerling shape, very nice skin and flesh, good shape, heavy set+++
- COTX08365-3P/P Long Purple some large, nice skin color
- COTX08365-1P/P Long Purple heavy set, small fingerling shape, nice skin color, all blue type flesh, smooth, lower set
- Banana Long White poor shape, deep eyes, all culls, very rough
- Purple Peruvian Oblong Purple very small, all culls, deep eyes, small, poor shape

Summary:

TX08378-3R/R was the outstanding entry; however, COTX08365-3P/P, and COTX08365-1P/P were superior to Banana and Purple Peruvian.

Springlake
Table 12a.

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 Springlake, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	Total Marketable Yield	Too Long	Under 1 inch	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading
TX08378-3R/R	TXFG	274.7	223.5	0.0	20.2	30.9	5.0	4.0
COTX08365-3P/P	TXFG	145.2	121.5	16.9	6.7	0.0	4.0	3.8
COTX08365-1P/P	TXFG	112.2	90.2	0.0	22.0	0.0	4.3	3.8
Banana	TXFG	108.7	0.0	0.0	0.0	108.7	3.0	1.0
Purple Peruvian	TXFG	38.2	0.0	0.0	0.0	38.2	3.5	1.0
Average		135.8	87.1	3.4	9.8	35.6	4.0	2.7
L.S.D. (.05)		33.0	32.8	8.8	4.2	25.9	0.1	0.1

¹ 1=very poor to 5= excellent

Springlake
Table 12b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 5 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Percent By Weight				Tuber Type	Skin Type
		Total					
		Marketable Yield	Too Long	Under 1 inch	Culls/ No. 2		
TX08378-3R/R	TXFG	81.3	0.0	7.5	11.2	Long	Red
COTX08365-3P/P	TXFG	84.0	11.6	4.4	0.0	Long	Purple
COTX08365-1P/P	TXFG	80.5	0.0	19.5	0.0	Long	Purple
Banana	TXFG	0.0	0.0	0.0	100.0	Long	White
Purple Peruvian	TXFG	0.0	0.0	0.0	100.0	Oblong	Purple
Average		49.1	2.3	6.3	42.2		
L.S.D. (.05)		7.7	6.0	2.3	5.2		

Springlake
Table 12c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 5 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
TX08378-3R/R	TXFG	12.1	1.9	2.5	100	1.6	3.7	4.5	4.7	0
COTX08365-3P/P	TXFG	5.2	2.4	2.3	98	1.5	3.5	4.6	4.6	0
COTX08365-1P/P	TXFG	10.0	1.0	1.9	98	1.5	3.1	4.9	4.7	0
Banana	TXFG	10.5	0.9	2.5	100	1.5	3.1	4.8	4.9	0
Purple Peruvian	TXFG	5.9	0.5	2.7	100	1.6	3.5	5.0	5.0	0
Average		8.7	1.3	2.4	99	1.6	3.4	4.8	4.8	0
L.S.D. (.05)		1.6	0.1	0.2	ns	ns	0.3	0.3	0.2	ns

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake
Table 12d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 5 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
TX08378-3R/R	TXFG	3.0	4.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	4.0	0	0	0	0
COTX08365-3P/P	TXFG	3.8	5.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
COTX08365-1P/P	TXFG	3.5	4.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
Banana	TXFG	2.0	5.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
Purple Peruvian	TXFG	5.0	3.8	1.0	2.0	5.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
Average		3.5	4.4	1.0	3.6	4.1	5.0	5.0	5.0	5.0	4.0	0	0	0	0
L.S.D. (.05)															

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Springlake
Table 12e.

Notes and general rating for all reps of 5 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
TX08378-3R/R	TXFG	, heavy set, bright red skin, red/yellow flesh, ,	nice fingerling shape, very nice skin and flesh, good shape, heavy set+++ ,	5, 5, 5, 5	4, 3.8, 4, 4
COTX08365-3P/P	TXFG	, , some large,	nice skin color, , larger tubers, , nice skin color, heavy set, nice shape and skin, all blue	4, 4, 4, 4	3.8, 3.8, 3.8, 3.8
COTX08365-1P/P	TXFG	, , heavy set, small fingerling shape,	type flesh, smooth, lower set	4.3, 4.3, 4.3, 4.3	3.8, 3.8, 3.8, 3.8
Banana	TXFG	, , , poor shape	, , deep eyes, all culls, very rough	3, 3, 3, 3	1, 1, 1, 1
Purple Peruvian	TXFG	, very small, ,	, all culls, deep eyes, small, , poor shape	3.5, 3.5, 3.5, 3.5	1, 1, 1, 1

Texas Advanced Selection Spacing/Fertility Trial

2013 Dalhart Trials

Summary of growing conditions:

These trials were planted 10 miles southwest of Dalhart in a CSS Farms production field on 14 to 16 May and harvested on 2, 3, 8, 9, 29, and 30 September. Standard cultural practices for the area were used (Table 3). Precipitation was higher than normal during the third week in August and fourth week in September. Temperatures were slightly higher in May, June and September. (Figure 4).

Trials conducted:

- Chip Potato Breeders Trial (not reported)
- Western and Southwestern Regional Chip
- Western and Southwestern Regional Russet
- Western and Southwestern Regional Red
- Western and Southwestern Regional Red/Yellow
- Western and Southwestern Regional White/Yellow
- Southwestern Regional Purple/Purple
- Commercial Variety Chip
- Texas Advanced Chip Selection
- 2012 Chip Selection
- Texas Advanced Russet Selection
- 2012 Russet Selection
- Texas Advanced Red Selection
- 2012 Red Selection
- Texas Advanced Red/Yellow Selection
- 2012 Red /Yellow Selection
- Texas Advanced White/Yellow Selection
- 2012 White/Yellow Selection
- Texas Advanced Small Potato Selection
- 2012 Small Potato Selection
- Texas Advanced Fingerling Selection

Table 3. Environmental and cultural inputs for the 2013 Dalhart Trials.		
Location:		
Dalhart, Texas		
Soil Type		
Dallum Fine Sand Loam		
Seed Source		
New York, Colorado, Oregon, Texas, and Idaho		
Date:		DAP
Planted	May 14, 2013	
Vines Killed (Red and Red Yellow Flesh)	September 1, 2013	107
Vines Killed (Chip and White Yellow Flesh)	September 1, 2013	107
Vines Killed (Russet)	September 9, 2013	115
Harvested (Nat Chip Trial)	September 2, 2013	108
Harvested (Red and Red/White Yellow Flesh)	September 9, 2013	115
Harvested (Chip)	September 3, 2013	109
Harvested (Small)	September 29, 2013	135
Harvested (Russet)	September 30, 2013	136
Plot Information:		
Size of Plots	22' 6"	
Spacing Between Hills	9"	
Spacing Between Rows	28"	
Hills Per Plot	30	
Number of Rows Per Plot	2	
Number of Reps	4	
Method of Harvest:		
Four-row drag digger, with hand pick up		
Fertilizer:		
Application:		
266-139-184 # per acre		
Irrigation:		
Center Pivot		
Seed Treatment		
Cruiser Maxx		
Insecticide:		
Epimek, Fulfill, Movento, Beleaf,		
Herbicides Applied:		
Chateau, Tricor, Select Max, Brawl, Acumen		
Fungicide Applied:		
Platinum, Quadris, Penncozeb, Echo, Scala, Luna, Revus Top, Ultra Fourish		
Environmental Factors:		
Precipitation was higher than normal during the third week in August and fourth week in September. Temperatures were slightly higher in May, June and September.		

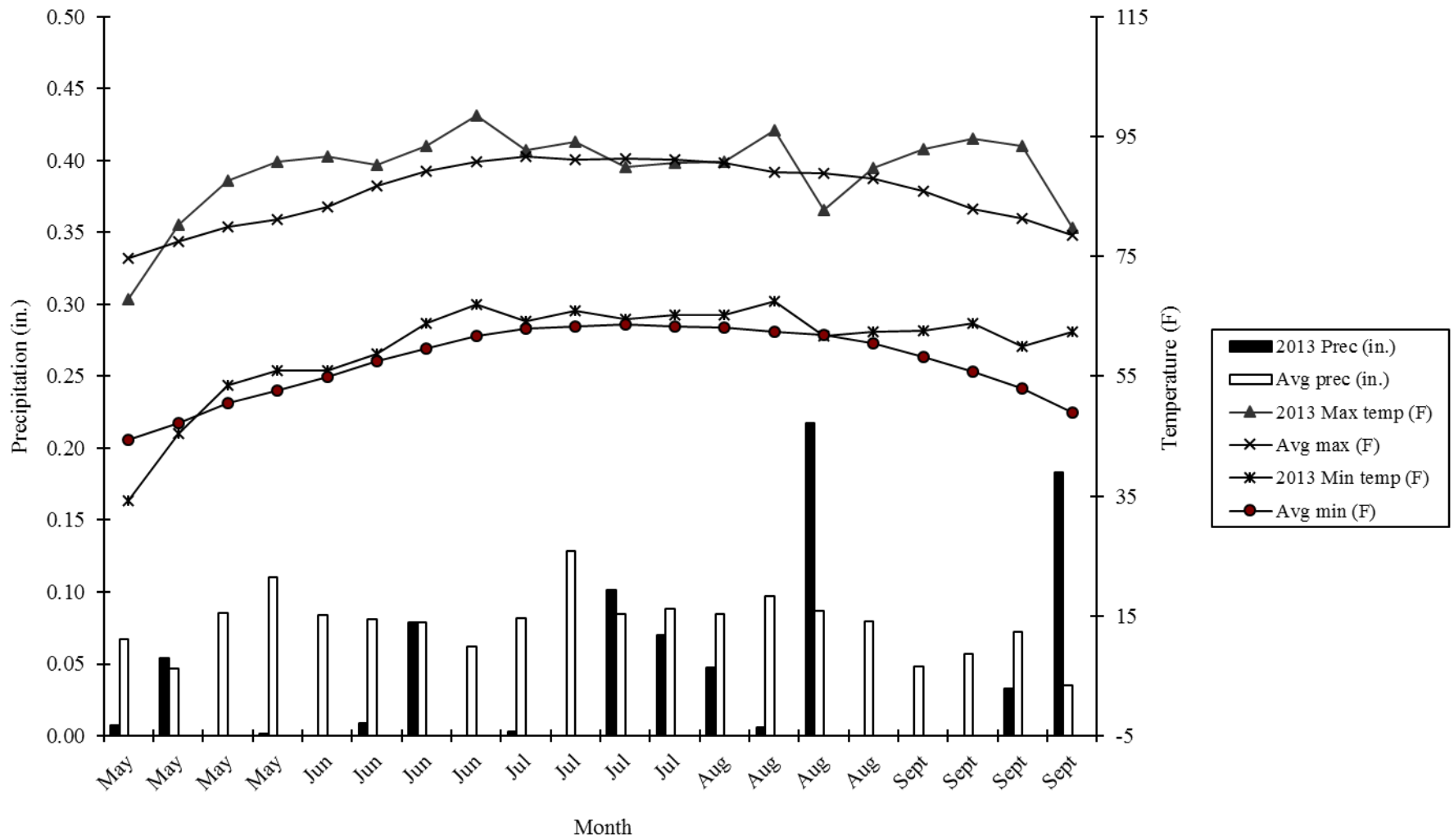


Figure 4. Weekly minimum/maximum temperatures and precipitation for the 2013-growing season near Dalhart, Texas compared to the average minimum/maximum temperatures and precipitation (1949-2013).

Western and Southwestern Regional Chip Trial, Dalhart

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

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

- CO05061-6W and Waneta had the highest general ratings, a best of trial designation for tuber appearance, and the highest percentage of good chips. CO02321-4W, AC01151-5W, and Atlantic received high general ratings and best of trial designations (Table 1a, 1e, and 1f).
- CO03243-3W had the highest total and marketable yield (Table 1a).
- AC01151-5W had the highest yield of < 4 oz. tubers (Table 1a).
- CO02033-1W had the highest yield of culls/No. 2 tubers (Table 1a).
- CO03243-3W and Waneta had the highest percentage of marketable yield (Table 1b).
- AC01151-5W had the highest percentage of <4 oz. tubers, while CO02033-1W had the highest percentage of culls/No. 2 tubers (Table 1b).
- CO02321-4W, CO02033-1W, and A00188-3C had the highest specific gravity (Table 1b).
- CO05061-6W had the highest average number of tubers per plant (Table 1c).
- All of the entries except AC05153-1W and CO05061-6W were late in maturity (Table 1c).
- Atlantic had the highest percent hollow heart (Table 1d).
- CO05061-6W and Waneta produced the highest quality chips (Table 1f).

Comments on entries:

- CO03243-3W Round White very nice shape, CR=1
- AC05153-1W Oblong White shape??, yield++, more oblong, CR=1
- CO05061-6W Round White very nice shape, BOT, CR=1
- Waneta Round White very nice, BOT, CR=1
- CO02321-4W Round White yield+, nice flesh, smooth, nice shape and size, BOT, CR=1
- AC01151-5W Round White very small, heavy set, nice shape, poor internals, BOT-, CR=1
- Atlantic Round Buff sever hollow heart, very nice shape and size, BOT, CR=1
- CO02033-1W Round White too oblong, poor shape, flat, rough, CR=2
- AC00206-2W Round White nice shape and size, smooth, CR=1
- AC03452-2W Round White yield+, nice shape, nice size, feathering, CR=1

- CO02024-9W Round White shape??, nice flesh, light set, small, CR=2
- AC03433-1W Round White rough, light set and yield, CR=1
- A00188-3C Round White nice shape, light set, low yield, CR=1
- Chipeta Oblong White light set, ugly, low yield, CR=1

¹CR=chip color rating 1=light to 3= dark

Summary:

CO05061-6W and Waneta were the outstanding entries based on all factors.

Dalhart Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 14 entries in the Western and Southwestern
 Table 1a. Regional Chip Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
CO03243-3W	WR	611.1	528.5	92.1	226.7	209.7	25.5	47.1	10.0	4.0
AC05153-1W	SW	524.4	418.0	122.8	180.5	114.7	0.0	94.8	11.6	3.5
CO05061-6W	SW	493.5	343.7	164.1	138.8	40.9	0.0	145.0	4.8	4.5
Waneta	WR	487.7	416.1	117.4	179.8	118.9	0.0	64.5	7.1	4.5
CO02321-4W	WR	474.6	381.0	126.5	179.6	74.9	0.0	85.9	7.7	4.0
AC01151-5W	WR	447.6	247.5	130.5	101.4	15.6	0.0	166.4	33.8	4.0
Atlantic	WR	442.9	368.8	118.0	148.5	102.3	0.0	68.0	6.0	4.0
CO02033-1W	WR	428.1	288.1	129.6	106.6	51.9	0.0	100.4	39.6	2.0
AC00206-2W	WR	411.1	311.6	107.9	132.5	71.1	0.0	77.2	22.4	3.7
AC03452-2W	WR	392.2	285.2	139.8	131.5	13.9	0.0	86.3	20.7	3.7
CO02024-9W	WR	319.2	243.9	160.5	75.9	7.5	0.0	71.8	3.5	3.6
AC03433-1W	WR	271.7	233.1	64.9	91.9	76.3	0.0	20.3	18.3	3.0
A00188-3C	WR	229.2	165.5	82.3	74.9	8.3	0.0	58.1	5.6	3.1
Chipeta	WR	163.5	141.3	68.2	45.4	27.6	0.0	21.4	0.8	2.0
Average		406.9	312.3	116.1	129.6	66.7	1.8	79.1	13.7	3.5
L.S.D. (.05)		53.5	47.9	35.8	46.4	32.6	7.6	32.9	19.3	0.2

¹ 1=very poor to 5= excellent

Dalhart
Table 1b. Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 14 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
CO03243-3W	WR	86.7	15.6	36.9	34.2	3.9	7.9	1.6	1.075	15.9	Round	White
AC05153-1W	SW	79.8	23.7	34.2	21.9	0.0	18.1	2.1	1.083	17.4	Oblong	White
CO05061-6W	SW	69.8	33.0	28.2	8.6	0.0	29.2	1.1	1.077	16.3	Round	White
Waneta	WR	85.3	24.1	36.8	24.4	0.0	13.3	1.4	1.077	16.2	Round	White
CO02321-4W	WR	80.4	26.9	37.4	16.1	0.0	17.8	1.7	1.087	18.0	Round	White
AC01151-5W	WR	55.8	29.7	22.1	3.9	0.0	37.0	7.3	1.075	16.0	Round	White
Atlantic	WR	83.4	26.8	33.8	22.8	0.0	15.3	1.3	1.083	17.3	Round	Buff
CO02033-1W	WR	67.4	30.7	24.3	12.4	0.0	23.5	9.1	1.086	17.8	Round	White
AC00206-2W	WR	75.6	26.3	32.5	16.8	0.0	18.1	6.3	1.083	17.3	Round	White
AC03452-2W	WR	73.6	36.9	33.0	3.8	0.0	21.9	4.5	1.065	14.2	Round	White
CO02024-9W	WR	77.4	49.2	25.5	2.7	0.0	21.6	1.0	1.083	17.3	Round	White
AC03433-1W	WR	85.8	24.0	33.8	27.9	0.0	7.4	6.9	1.076	16.0	Round	White
A00188-3C	WR	72.8	37.2	32.4	3.2	0.0	25.3	1.9	1.085	17.7	Round	White
Chipeta	WR	84.8	41.7	26.8	16.3	0.0	14.5	0.7	1.077	16.2	Oblong	White
Average		77.0	30.4	31.3	15.3	0.3	19.3	3.3	1.079	16.7		
L.S.D. (.05)		8.4	10.2	ns	9.0	0.1	7.8	4.7	0.005	0.9		

Dalhart
Table 1c. Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 14 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
CO03243-3W	WR	5.2	7.5	100	1.5	4.7	4.8	4.6	0
AC05153-1W	SW	6.2	5.4	100	1.5	4.6	3.0	4.5	35
CO05061-6W	SW	7.8	4.1	100	1.5	4.4	3.4	4.4	23
Waneta	WR	5.7	6.1	93	1.5	4.3	3.7	4.3	20
CO02321-4W	WR	5.7	5.4	100	1.6	4.4	4.3	4.4	0
AC01151-5W	WR	7.4	3.9	100	1.5	4.4	4.7	4.4	0
Atlantic	WR	5.0	5.7	100	1.6	4.7	4.3	4.8	0
CO02033-1W	WR	6.2	4.4	100	1.5	4.8	4.4	4.8	0
AC00206-2W	WR	4.9	5.4	100	1.9	4.6	4.0	4.6	0
AC03452-2W	WR	5.9	4.3	100	1.5	4.8	4.6	4.8	0
CO02024-9W	WR	7.4	4.2	70	1.8	3.5	4.2	3.9	0
AC03433-1W	WR	3.2	5.8	96	1.9	4.2	4.8	4.2	0
A00188-3C	WR	3.6	4.1	100	1.9	4.4	4.5	4.4	0
Chipeta	WR	2.1	5.3	97	1.5	4.6	4.8	4.6	0
Average		5.5	5.1	97	1.6	4.4	4.2	4.5	6
L.S.D. (.05)		0.9	0.8	13	ns	0.5	0.2	0.3	2

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 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 14 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
CO03243-3W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC05153-1W	SW	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05061-6W	SW	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Waneta	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	20	0	0	0
CO02321-4W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
AC01151-5W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	8
Atlantic	WR	1.0	2.0	2.0	4.0	2.5	5.0	5.0	5.0	5.0	5.0	45	0	0	0
CO02033-1W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
AC00206-2W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC03452-2W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	3.0	0	0	0	0
CO02024-9W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC03433-1W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
A00188-3C	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
Chipeta	WR	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0

Average		1.0	2.2	1.1	4.0	1.1	5.0	5.0	5.0	5.0	4.9	7	0	0	1
L.S.D. (.05)												ns			

¹ 1=light to 5=dark
² 1=round to 5=long
³ 1=none to 5=heavy
⁴ 1=deep to 5=shallow
⁵ 1=light to 5=dark
⁶ 1 to 5=none
⁷ 1 to 5=none
⁸ 1 to 5=none
⁹ 1 to 5=none
¹⁰ 1 to 5=none
¹¹ Stem end vascular discoloration severely evaluated

Dalhart Notes and general rating for all reps of 14 entries in the Western and Southwestern Regional Chip
 Table 1e. Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Notes Grading	General Rating Grading
CO03243-3W	WR	very nice shape, , ,	3.8, 4.3, 4, 4
AC05153-1W	SW	shape??, yield++, , , more oblong	3.5, 3.5, 3.5, 3.5
CO05061-6W	SW	very nice shape, BOT, , ,	4.5, 4.5, 4.5, 4.5
Waneta	WR	, , , very nice BOT	4.5, 4.5, 4.5, 4.5
CO02321-4W	WR	BOT, yield+, nice flesh, smooth, nice shape and size	4, 4, 4, 3.8
AC01151-5W	WR	very small, heavy set, nice shape, BOT-, poor internals	4, 4, 4, 4
Atlantic	WR	sever hollow heart, very nice shape and size, , , BOT	4, 4, 4, 4
CO02033-1W	WR	too oblong, , poor shape, flat, rough	2, 2, 2, 2
AC00206-2W	WR	, nice shape and size, , smooth	3.8, 3.6, 3.6, 3.7
AC03452-2W	WR	yield+, nice shape, nice size, feathering,	4, 3.7, 3.7, 3.5
CO02024-9W	WR	shape??, , nice flesh, light set, small	3.6, 3.6, 3.5, 3.5
AC03433-1W	WR	, rough, , light set and yield	3, 3, 3, 3
A00188-3C	WR	, nice shape, light set, , bad rep, low yield	3.7, 3.5, 2.5, 2.5
Chipeta	WR	, light set, ugly, bad rep, low yield,	2, 2, 2, 2

Dalhart
Table 1f. Specific gravity, percent solids, chip color rating, good chip bad chip ratio, notes, percentage of Zebra Defect at chipping, and percentage Zebra Defect at grading of 14 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Gravity	% Solids	Chip Color ²	Good/Bad Chip Ratio	Notes ³	Percent Zebra Defect	Percent Zebra Defect at Grading
CO03243-3W	WR	1.075	15.9	1	25/14	1 CB	0%	0%
AC05153-1W	SW	1.083	17.4	1	29/12		0%	0%
CO05061-6W	SW	1.077	16.3	1	34/6		0%	0%
Waneta	WR	1.077	16.2	1	37/3		0%	0%
CO02321-4W	WR	1.087	18.0	1	28/11	1 GH, 1 SCAB	3%	0%
AC01151-5W	WR	1.075	16.0	1	31/10		0%	0%
Atlantic	WR	1.083	17.3	1	31/8		0%	0%
CO02033-1W	WR	1.086	17.8	2	17/23		0%	0%
AC00206-2W	WR	1.083	17.3	1	33/7	1 GH1 CB	0%	0%
AC03452-2W	WR	1.065	14.2	1	26/13	3 CB	13%	0%
CO02024-9W	WR	1.083	17.3	2	23/17	1 GH	0%	0%
AC03433-1W	WR	1.076	16.0	1	27/11	1 GH1 CB	0%	0%
A00188-3C	WR	1.085	17.7	1	21/19		0%	0%
Chipeta	WR	1.077	16.2	1	20/19	3 GH1 CB1 CB	0%	0%

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

¹1=poor, 5=excellent

²1=light, 3+=very dark

³BOT=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,

Western Regional and Texas Advanced Russet Trial, Dalhart

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

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

- ATX91137-1Ru, AO02060-3, A02507-2LB, A02138-2, and Stampede Russet received high general ratings and best of trial designations (Tables 2a and 2e).
- CO05189-3Ru had the highest total yield, while ATX91137-1Ru had the highest marketable yield. A02062-1TE had the highest yield of 10-18 oz. tubers, while CO05189-3RU had the highest yield of over 18 oz. tubers (Table 2a).
- CO05040-1RU had the highest yield of <4 oz. tubers. A03158-2TE had the highest yield of culls/No.2 tubers (Table 2a).
- A02507-2LB had the highest percentage of marketable yield (Table 2b).
- CO05040-1RU had the highest percentage of <4 oz. tubers. Russet Burbank had the highest percentage of culls/No. 2 tubers (Table 2b).
- AC00395-2RU had the highest specific gravity (Table 2b).
- AC00395-2RU, A02507-2LB, CO05068-1RU, Ranger Russet, and OR05039-4 were the latest maturing entries, while CO05189-3RU, Russet Norkotah, and AOTX96216-2Ru were the earliest maturing entries (Table 2c).
- CO05110-6RU and CO05149-3RU had the highest percentage of hollow heart (Table 2d).

Comments on entries:

- CO05189-3RU Oblong Russet blocky, oversized, very large tubers, size parent, drop
- Russet Norkotah Long Russet some rough, oversized, pointed, too long
- A03158-2TE Long Russet deep eyes, too long and skinny, drop++
- Russet Norkotah 278 Long Russet nice, hollow heart on very large tubers, some curved
- ATX91137-1Ru Oblong Russet some blocky, nice, good size distribution, BOT+
- CO05110-6RU Long Russet large, rough, severe hollow heart, deep eyes, drop++
- A02062-1TE Long Russet too large+, oversized, bruises, drop
- AC00395-2RU Oblong Russet blocky

- TXA549-1Ru Oblong Russet blocky, very nice
- CO03276-5RU Long Russet skinny, curved, heavy set, drop
- CO05152-5RU Long Russet pointed++, culls+, drop++
- AO02060-3 Long Russet yield+, pointed, some greening, BOT
- A02507-2LB Oblong Russet blocky, slight vascular discoloration, BOT
- A02138-2 Long Russet nice, smooth, BOT
- AOTX98152-3Ru Oblong Russet blocky, fat tubers, too round, hollow heart, light set
- AO01114-4 Long Russet skinny, pointed, stem end bruise, drop
- CO05189-2RU Oblong Russet blocky, yield+
- CO05068-1RU Oblong Russet rough, small, drop++
- CO05132-2RU Long Russet nice net and appearance, light set, nice shape
- Ranger Russet Long Russet rough, poor shape, skinny, drop
- CO05024-11RU Oblong Russet blocky, rough, pointed to stem end, drop++
- OR05039-4 Long White light net, too long, pointed
- AOTX96216-2Ru Oblong Russet light set, large tubers, drop?
- A02424-83LB Oblong Russet pointed, greening, Shepody like skin, poor net, small, scab, drop
- Stampede Russet Oblong Russet some pointed to stem end, BOT
- POR06V12-3 Oblong Russet nice shape, blocky, light set
- CO05149-3RU Oblong Russet rough, hollow heart, ugly net+, drop++
- CO05040-1RU Long Russet small, rough, skinny, drop++
- Russet Burbank Long Russet rough, poor shape, skinny, drop
- Shepody Long Russet light set, small, drop
- CO05175-1RU Long Russet pointed, curved, drop+

Summary:

Overall, ATX91137-1Ru, AO02060-3, A02507-2LB, and A02138-2 were the outstanding entries based on all factors.

Dalhart
Table 2a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 30 entries in the Western and Southwestern Regional Russet Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
CO05189-3RU	SW	618.6	325.9	22.4	86.3	217.2	156.6	28.0	108.1	3.2
Russet Norkotah	WR	599.9	356.6	46.7	164.1	145.8	63.5	46.3	133.6	3.7
A03158-2TE	WR	584.3	261.6	39.4	107.4	114.7	26.3	35.7	260.7	2.0
Russet Norkotah 278	WR	572.1	317.8	36.7	140.8	140.2	75.9	47.3	131.1	3.7
ATX91137-1Ru	TXCO	561.0	447.4	60.8	203.1	183.6	24.3	52.5	36.7	4.3
CO05110-6RU	SW	554.9	375.0	73.4	121.3	180.3	24.5	51.9	103.5	3.1
A02062-1TE	WR	546.6	320.3	24.9	53.1	242.3	65.3	20.7	140.2	2.4
AC00395-2RU	WR	535.2	381.0	102.1	186.3	92.7	20.5	91.9	41.7	3.9
TXA549-1Ru	TXCO	525.6	372.1	74.7	186.1	111.4	28.6	53.3	71.6	3.9
CO03276-5RU	WR	521.5	270.5	90.4	122.2	57.9	0.0	86.7	164.3	1.5
CO05152-5RU	SW	500.7	264.5	87.5	95.8	81.1	5.0	81.7	149.6	2.6
AO02060-3	WR	494.3	324.6	61.8	129.6	133.2	64.1	45.0	60.6	4.1
A02507-2LB	WR	490.8	391.0	62.0	152.9	176.1	0.0	58.1	41.7	4.1
A02138-2	WR	490.4	353.3	80.5	154.1	118.6	20.7	68.2	48.1	4.2
AOTX98152-3Ru	WR	474.4	310.3	68.0	139.2	103.1	30.3	63.9	69.9	3.5
AO01114-4	WR	472.1	213.9	31.3	106.8	75.7	19.5	38.8	200.0	2.3
CO05189-2RU	SW	469.8	344.5	78.8	165.5	100.2	8.1	46.0	71.1	3.5
CO05068-1RU	SW	468.0	261.2	61.6	114.7	84.8	10.8	52.9	143.1	2.0
CO05132-2RU	SW	464.8	343.9	60.2	129.6	154.1	27.4	57.5	36.1	3.8
Ranger Russet	WR	457.8	245.4	59.7	91.1	94.6	5.0	44.8	162.6	1.6
CO05024-11RU	SW	447.4	174.2	34.8	71.4	68.0	2.3	45.4	225.5	2.0
OR05039-4	WR	446.6	335.8	48.3	148.9	138.6	9.7	25.1	75.9	3.2
AOTX96216-2Ru	TXCO	420.7	171.8	24.9	55.6	91.3	141.1	11.6	96.2	3.5
A02424-83LB	WR	417.1	269.0	78.0	149.6	41.5	0.0	97.7	50.4	1.8
Stampede Russet	TXCO	415.1	291.9	74.1	128.8	89.0	16.2	57.0	50.0	4.0
POR06V12-3	WR	380.2	263.8	50.0	138.1	75.7	5.2	55.6	55.6	3.4
CO05149-3RU	SW	371.1	219.3	66.6	83.8	68.9	24.9	75.5	51.4	2.6
CO05040-1RU	SW	366.1	164.9	109.9	43.8	11.2	0.0	109.9	91.3	1.8
Russet Burbank	WR	329.2	110.6	35.9	43.1	31.5	0.0	29.0	189.6	1.0
Shepody	WR	325.2	134.6	39.4	57.7	37.5	2.5	38.0	150.2	2.1
CO05175-1RU	SW	315.1	121.8	25.7	47.1	49.0	2.5	40.2	150.6	2.3
Average		502.0	308.9	59.3	128.2	121.4	33.8	52.3	106.9	3.1
L.S.D. (.05)		60.8	56.9	26.3	40.0	39.0	33.3	22.4	45.1	0.4

¹ 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 30 entries in the Western and Southwestern Regional Russet Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
CO05189-3RU	SW	53.2	3.6	14.1	35.5	25.0	4.6	17.3	1.067	14.5	Oblong	Russet
Russet Norkotah	WR	59.6	7.8	27.4	24.4	10.5	7.7	22.2	1.067	14.5	Long	Russet
A03158-2TE	WR	44.8	6.8	18.4	19.7	4.5	6.1	44.5	1.074	15.7	Long	Russet
Russet Norkotah 278	WR	55.5	6.8	24.4	24.3	13.0	8.3	23.2	1.068	14.7	Long	Russet
ATX91137-1Ru	TXCO	79.7	10.8	36.1	32.8	4.4	9.4	6.5	1.066	14.3	Oblong	Russet
CO05110-6RU	SW	68.1	13.2	22.1	32.8	4.3	9.3	18.2	1.070	14.9	Long	Russet
A02062-1TE	WR	59.1	4.6	9.8	44.7	10.9	3.8	26.1	1.067	14.5	Long	Russet
AC00395-2RU	WR	71.4	19.2	35.4	16.8	3.5	17.2	7.9	1.087	18.1	Oblong	Russet
TXA549-1Ru	TXCO	71.2	14.5	35.3	21.5	5.0	10.2	13.6	1.073	15.6	Oblong	Russet
CO03276-5RU	WR	50.2	18.6	21.8	9.9	0.0	16.9	32.8	1.073	15.5	Long	Russet
CO05152-5RU	SW	52.9	17.5	19.3	16.1	1.0	16.5	29.6	1.071	15.2	Long	Russet
AO02060-3	WR	65.1	12.7	26.2	26.2	12.9	9.2	12.8	1.075	15.9	Long	Russet
A02507-2LB	WR	80.0	13.1	31.5	35.5	0.0	11.8	8.2	1.075	15.9	Oblong	Russet
A02138-2	WR	71.9	16.5	31.4	24.0	4.3	14.0	9.8	1.083	17.3	Long	Russet
AOTX98152-3Ru	WR	65.3	14.4	29.0	21.9	6.1	13.6	15.0	1.073	15.5	Oblong	Russet
AO01114-4	WR	45.7	6.7	23.3	15.7	4.3	8.3	41.6	1.081	16.9	Long	Russet
CO05189-2RU	SW	73.2	16.9	35.2	21.1	1.5	9.5	15.8	1.075	15.9	Oblong	Russet
CO05068-1RU	SW	56.0	13.3	24.2	18.5	2.3	11.1	30.6	1.083	17.3	Oblong	Russet
CO05132-2RU	SW	74.2	13.1	28.0	33.1	5.6	12.5	7.8	1.069	14.9	Long	Russet
Ranger Russet	WR	53.7	13.0	20.0	20.6	1.1	9.8	35.4	1.078	16.5	Long	Russet
CO05024-11RU	SW	38.8	7.7	16.0	15.0	0.6	10.0	50.6	1.076	16.1	Oblong	Russet
OR05039-4	WR	74.7	11.1	33.2	30.4	2.0	5.8	17.5	1.074	15.8	Long	White
AOTX96216-2Ru	TXCO	40.8	5.9	13.2	21.7	33.5	2.8	22.9	1.069	14.8	Oblong	Russet
A02424-83LB	WR	64.5	18.7	35.9	9.9	0.0	23.5	11.9	1.080	16.7	Oblong	Russet
Stampede Russet	TXCO	70.3	18.2	30.7	21.4	4.0	13.4	12.3	1.063	13.7	Oblong	Russet
POR06V12-3	WR	69.3	13.4	36.2	19.8	1.5	14.3	14.9	1.079	16.6	Oblong	Russet
CO05149-3RU	SW	59.9	18.6	22.2	19.1	5.2	20.8	14.1	1.069	14.7	Oblong	Russet
CO05040-1RU	SW	45.1	29.6	12.2	3.3	0.0	30.2	24.7	1.067	14.5	Long	Russet
Russet Burbank	WR	32.3	11.1	12.4	8.8	0.0	9.0	58.7	1.069	14.8	Long	Russet
Shepody	WR	41.7	12.4	17.8	11.5	0.8	11.5	46.1	1.074	15.8	Long	Russet
CO05175-1RU	SW	38.1	8.3	14.7	15.1	0.7	13.0	48.1	1.071	15.2	Long	White
Average		61.6	12.2	25.7	23.7	6.4	10.6	21.4	1.073	15.6		
L.S.D. (.05)		9.1	6.1	7.4	7.3	5.9	4.7	9.3	0.007	1.3		

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Table 2c. Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 30 entries in the Western and Southwestern Regional Russet Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
CO05189-3RU	SW	3.7	10.7	100	1.5	4.7	2.3	4.7	71
Russet Norkotah	WR	5.5	7.1	100	1.8	4.8	2.1	4.8	66
A03158-2TE	WR	5.0	7.6	100	1.6	4.4	3.7	4.3	24
Russet Norkotah 278	WR	5.3	6.9	100	1.5	4.6	3.3	4.6	36
ATX91137-1Ru	TXCO	4.4	8.2	100	1.5	4.5	3.8	4.5	24
CO05110-6RU	SW	5.1	7.0	100	1.6	4.5	3.0	4.5	43
A02062-1TE	WR	4.3	8.2	100	1.4	3.8	3.8	3.7	21
AC00395-2RU	WR	6.1	5.6	100	1.6	4.9	4.3	4.9	11
TXA549-1Ru	TXCO	4.8	7.2	100	1.8	4.6	2.8	4.6	53
CO03276-5RU	WR	7.9	4.2	100	1.5	4.8	3.1	4.8	49
CO05152-5RU	SW	6.0	5.3	100	1.6	4.4	3.7	4.4	31
AO02060-3	WR	4.6	6.9	100	1.8	4.7	3.8	4.7	23
A02507-2LB	WR	5.2	6.1	100	1.9	4.2	4.5	4.2	11
A02138-2	WR	5.2	6.1	100	2.1	4.2	2.8	4.2	56
AOTX98152-3Ru	WR	4.8	6.3	100	1.8	4.5	3.1	4.5	44
AO01114-4	WR	4.7	6.5	100	1.5	4.6	3.6	4.6	25
CO05189-2RU	SW	5.1	5.9	100	1.8	4.3	3.2	4.3	43
CO05068-1RU	SW	5.3	5.8	100	1.8	4.4	4.1	4.4	11
CO05132-2RU	SW	4.6	6.5	100	1.6	4.8	3.7	4.8	28
Ranger Russet	WR	5.0	5.9	100	1.5	4.8	4.0	4.8	15
CO05024-11RU	SW	4.8	6.0	100	1.5	4.6	3.3	4.6	39
OR05039-4	WR	3.9	7.4	100	1.8	4.7	4.1	4.7	16
AOTX96216-2Ru	TXCO	2.2	12.1	100	1.0	4.6	2.0	4.5	70
A02424-83LB	WR	5.9	4.6	100	1.8	4.5	4.1	4.5	15
Stampede Russet	TXCO	5.4	5.6	89	1.2	3.6	2.8	3.8	52
POR06V12-3	WR	4.2	5.9	100	1.5	4.5	3.8	4.5	24
CO05149-3RU	SW	5.2	4.6	100	1.5	4.8	3.2	4.8	40
CO05040-1RU	SW	6.8	3.5	100	2.0	4.7	3.6	4.7	25
Russet Burbank	WR	4.5	4.7	100	2.0	4.6	3.1	4.6	50
Shepody	WR	4.5	4.6	100	2.0	4.7	2.7	4.7	49
CO05175-1RU	SW	3.6	5.6	100	1.8	4.6	4.3	4.6	11
Average		5.0	6.8	100	1.6	4.5	3.4	4.5	35
L.S.D. (.05)		0.8	0.8	4	0.2	0.4	0.7	0.3	23

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

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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 30 entries in the Western and Southwestern Regional Russet Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
CO05189-3RU	SW	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
A03158-2TE	WR	1.0	4.5	4.0	2.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah 278	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
ATX91137-1Ru	TXCO	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05110-6RU	SW	1.0	4.0	4.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0	35	0	0	0
A02062-1TE	WR	1.0	4.8	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC00395-2RU	WR	1.0	3.8	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
TXA549-1Ru	TXCO	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	15	0	0	0
CO03276-5RU	WR	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05152-5RU	SW	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AO02060-3	WR	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	10	0	0	0
A02507-2LB	WR	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A02138-2	WR	1.0	4.0	4.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX98152-3Ru	WR	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	13	0	0	0
AO01114-4	WR	1.0	4.7	4.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
CO05189-2RU	SW	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05068-1RU	SW	1.0	3.5	3.5	3.5	3.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
CO05132-2RU	SW	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
Ranger Russet	WR	1.0	4.0	4.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05024-11RU	SW	1.0	3.5	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
OR05039-4	WR	1.0	4.5	2.0	3.5	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX96216-2Ru	TXCO	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A02424-83LB	WR	1.0	3.5	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Stampede Russet	TXCO	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
POR06V12-3	WR	1.0	3.5	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
CO05149-3RU	SW	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	38	0	0	0
CO05040-1RU	SW	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Burbank	WR	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Shepody	WR	1.0	4.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05175-1RU	SW	1.0	4.5	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	10	0	0	0
Average		1.0	3.9	3.8	3.6	3.7	5.0	5.0	5.0	5.0	5.0	5	0	0	0
L.S.D. (.05)												17			

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Dalhart Notes and general rating for all reps of 30 entries in the Western and Southwestern Regional Russet
 Table 2e. Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Notes Grading	General Rating Grading
CO05189-3RU	SW	blocky, oversized, drop, very large tubers, size parent, ,	3, 3, 3, 3.7
Russet Norkotah	WR	some rough, oversized, pointed, too long, , ,	3.6, 3.8, 3.7, 3.8
A03158-2TE	WR	deep eyes, drop+, , too long and skinny,	2, 2, 2, 2
Russet Norkotah 278	WR	nice, hollow heart on very large tubers, some curved, , ,	4, 3.8, 3.6, 3.5
ATX91137-1Ru	TXCO	some blocky, nice, BOT+, , , good size distribution	4, 4.8, 4, 4.3
CO05110-6RU	SW	large, rough, severe hollow heart, , deep eyes, drop+, ,	3.2, 3, 2.8, 3.3
A02062-1TE	WR	too large+, oversized, , bruises, drop,	3, 2.5, 2, 2
AC00395-2RU	WR	blocky, , ,	4, 3.8, 4, 3.7
TXA549-1Ru	TXCO	blocky, very nice, , ,	4, 3.8, 3.6, 4
CO03276-5RU	WR	, skinny, curved, drop, heavy set,	2, 2, 1, 1
CO05152-5RU	SW	pointed+, culls+, , , drop++	3, 2.2, 2.5, 2.8
AO02060-3	WR	yield+, BOT, , pointed, some greening, ,	4, 4.5, 3.8, 3.9
A02507-2LB	WR	BOT, blocky, slight vascular discoloration, , ,	4.7, 3.6, 4.5, 3.6
A02138-2	WR	, , , nice, BOT, smooth	4, 4.3, 4.3, 4.3
AOTX98152-3Ru	WR	, , blocky, fat tubers, too round, hollow heart, light set	3.7, 3.5, 3.3, 3.5
AO01114-4	WR	, , , skinny, pointed, stem end bruise, drop	2.5, 1.5, 2.5, 2.5
CO05189-2RU	SW	, blocky, yield+, ,	4, 3.5, 3.6, 3
CO05068-1RU	SW	, , , rough, small, drop++	2, 2, 2, 2
CO05132-2RU	SW	, nice net and appearance, light set, nice shape,	4, 3.8, 3.6, 3.8
Ranger Russet	WR	, , rough, poor shape, skinny, drop,	1.5, 1.5, 2, 1.5
CO05024-11RU	SW	blocky, rough, pointed to stem end, drop+, ,	2, 2, 2, 2
OR05039-4	WR	, light net, too long, pointed, ,	3, 3.6, 3.3, 3
AOTX96216-2Ru	TXCO	light set, large tubers, drop?, , , drop, no net, pointed, greening, Shepody like skin, poor net, small, scab, ,	3.5, 3.5, 3.5, 3.5
A02424-83LB	WR		2, 2, 1, 2
Stampede Russet	TXCO	BOT, some pointed to stem end, , ,	4.5, 3.8, 3.8, 4
POR06V12-3	WR	nice shape, blocky, light set, , ,	3.4, 3.5, 3.5, 3.3
CO05149-3RU	SW	rough, hollow heart, , ugly net+, drop+, ,	3, 2.5, 2.5, 2.5
CO05040-1RU	SW	small, rough, skinny, drop+, ,	2.3, 2, 1.5, 1.5
Russet Burbank	WR	, , , rough, poor shape, skinny, drop	1, 1, 1, 1
Shepody	WR	, light set, small, drop, ,	2, 2.5, 2, 2
CO05175-1RU	SW	pointed, curved, drop+, , ,	2.7, 2.3, 2, 2.3

Western Regional and Texas Advanced Red Trial, Dalhart

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

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

- NDTX5438-11R, BTX2332-1R, and NDTX4784-7R had the highest general ratings and best of trial designations, while COTX02172-1R and CO05228-4R also received high general ratings (Table 3a and 3e).
- Chieftain had the highest total and marketable and yield. Red LaSoda had the highest yield of over 18 oz. tubers, while CO05211-4R had the highest yield of <4 oz. tubers (Table 3b).
- Chieftain had the highest yield of 4-6 oz. tubers. Red LaSoda had the highest yield of culls/No. 2 tubers (Table 3a).
- Chieftain had the highest percentage of marketable yield, while Red LaSoda had the highest percentage of over 18 oz. tubers (Table 3b).
- CO05211-4R had the highest percentage of <4 oz. tubers (Table 3b).
- BTX2332-1R had the highest specific gravity (Table 3b).
- CO05228-4R had the highest average number of tubers per plant (Table 3c).
- All of the clones except COTX02172-1R and COTX02293-4R were late in maturity (Table 3c).
- Red LaSoda had the deepest eyes (Table 3d).

Comments on entries:

- | | | |
|----------------|------------|---|
| • Chieftain | Oblong Red | nice shape, some feathering+, light skin color, |
| • Red LaSoda | Oblong Red | rough, deep eyes, oversized, yield++ |
| • NDTX5438-11R | Oblong Red | great shape and color, very white flesh, BOT |
| • BTX2332-1R | Round Red | yield+, nice color, some feathering, nice shape, BOT |
| • COTX02172-1R | Oblong Red | nice shape, light skin color, more oblong |
| • NDTX4784-7R | Round Red | very nice color, yield++, good skin finish, BOT++ |
| • CO05228-4R | Round Red | nice shape and skin, too small, small potato?? |
| • COTX02293-4R | Round Red | nice round shape and skin color, light set+ |
| • CO05211-4R | Oblong Red | red to purple skin color, poor shape+, rough, small, nice skin color, drop+ |

Summary:

Overall, NDTX5438-11R, BTX2332-1R, and NDTX4784-7R were the outstanding entries based on all factors.

Dalhart
Table 3a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 9 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
Chieftain	WR	795.3	667.3	222.4	297.0	147.9	12.9	104.3	10.8	3.8
Red LaSoda	WR	784.1	514.4	104.5	209.3	200.6	127.8	123.0	18.9	3.6
NDTX5438-11R	WR	593.5	472.3	173.2	180.0	119.1	6.4	110.8	3.9	4.3
BTX2332-1R	TXCO	546.6	393.1	175.7	127.4	90.0	2.7	149.1	1.7	4.2
COTX02172-1R	TXCO	513.6	343.3	126.3	134.6	82.3	31.5	132.5	6.2	4.0
NDTX4784-7R	TXCO	482.1	351.4	134.8	136.1	80.5	17.8	112.8	0.0	4.5
CO05228-4R	SW	473.1	173.6	139.4	31.5	2.7	0.0	299.5	0.0	4.0
COTX02293-4R	TXCO	375.7	267.8	142.7	92.7	32.4	0.0	98.9	8.9	3.9
CO05211-4R	SW	306.6	84.4	67.8	13.3	3.3	0.0	215.7	6.4	2.6
Average		541.2	363.1	143.0	135.8	84.3	22.1	149.6	6.3	3.9
L.S.D. (.05)		64.0	91.4	74.3	39.2	54.5	36.0	65.5	ns	0.2

¹ 1=very poor to 5= excellent

Dalhart
Table 3b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 9 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Chieftain	WR	83.7	27.6	37.6	18.5	1.9	13.2	1.3	1.066	14.3	Oblong	Red
Red LaSoda	WR	65.6	13.3	26.7	25.6	16.3	15.7	2.4	1.064	13.9	Oblong	Red
NDTX5438-11R	WR	79.0	28.4	30.5	20.1	1.1	19.2	0.7	1.058	12.9	Oblong	Red
BTX2332-1R	TXCO	72.4	32.4	23.2	16.8	0.5	26.8	0.3	1.073	15.5	Round	Red
COTX02172-1R	TXCO	67.3	24.8	26.9	15.6	5.5	26.1	1.2	1.055	12.4	Oblong	Red
NDTX4784-7R	TXCO	73.2	27.0	28.5	17.8	4.3	22.5	0.0	1.062	13.5	Round	Red
CO05228-4R	SW	37.0	29.8	6.6	0.5	0.0	63.0	0.0	1.066	14.2	Round	Red
COTX02293-4R	TXCO	71.8	38.4	24.8	8.5	0.0	25.9	2.3	1.059	13.1	Round	Red
CO05211-4R	SW	26.7	21.5	4.2	1.0	0.0	71.3	2.0	1.064	13.9	Oblong	Red
Average		64.1	27.0	23.2	13.8	3.3	31.5	1.1	1.063	13.8		
L.S.D. (.05)		14.6	ns	6.2	8.7	5.5	14.6	ns	ns	ns		

Dalhart
Table 3c. Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 9 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
Chieftain	WR	8.2	6.3	100	1.5	4.6	4.3	4.7	16
Red LaSoda	WR	7.2	7.0	100	2.0	4.8	4.5	4.8	3
NDTX5438-11R	WR	7.4	5.6	93	1.5	4.2	4.3	4.1	13
BTX2332-1R	TXCO	7.0	5.1	100	2.0	4.6	4.7	4.7	0
COTX02172-1R	TXCO	7.0	4.7	100	1.8	4.4	2.0	4.4	79
NDTX4784-7R	TXCO	8.6	5.5	68	1.5	4.3	3.3	4.4	43
CO05228-4R	SW	11.3	2.7	100	1.8	4.5	4.3	4.5	11
COTX02293-4R	TXCO	5.9	4.4	94	1.9	3.8	2.4	4.0	65
CO05211-4R	SW	10.9	1.8	100	2.1	4.2	4.6	4.3	1
Average		8.2	4.8	95	1.8	4.4	3.8	4.4	26
L.S.D. (.05)		1.5	0.7	13	0.2	0.4	0.7	0.3	18

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 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 Western and Southwestern Regional Red Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
Chieftain	WR	1.0	3.5	1.0	4.0	3.2	5.0	5.0	5.0	5.0	3.0	8	0	0	0
Red LaSoda	WR	1.0	3.5	1.0	2.0	3.5	5.0	5.0	5.0	5.0	3.5	0	0	0	0
NDTX5438-11R	WR	1.0	3.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	4.0	0	0	0	0
BTX2332-1R	TXCO	1.0	2.0	1.0	4.0	3.9	5.0	5.0	5.0	5.0	3.8	0	0	0	0
COTX02172-1R	TXCO	1.0	3.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	3.9	0	0	0	0
NDTX4784-7R	TXCO	1.0	2.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	4.5	0	0	0	0
CO05228-4R	SW	1.0	2.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	4.2	0	0	0	0
COTX02293-4R	TXCO	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	3.9	0	0	0	0
CO05211-4R	SW	1.0	3.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
Average L.S.D. (.05)		1.0	2.8	1.0	3.8	4.1	5.0	5.0	5.0	5.0	3.9	1	0	0	0

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Dalhart
Table 3e.

Notes and general rating for all reps of 9 entries in the Western and Southwestern Regional Red
Trial grown near Springlake, Texas-2013.

Variety or Selection	Trial	Notes Grading	General Rating Grading
Chieftain	WR	nice shape, some feathering+, , light skin color,	3.8, 3.8, 3.8, 3.8
Red LaSoda	WR	rough, deep eyes, oversized, yield++, , ,	3.8, 3.5, 3.6, 3.6
NDTX5438-11R	WR	great shape and color BOT, very white flesh, ,	4.5, 4, 4.5, 4
BTX2332-1R	TXCO	, BOT, yield+, nice color, some feathering, Nice shape	4.5, 4.5, 4, 3.8
COTX02172-1R	TXCO	, nice shape, light skin color, more oblong,	4.2, 3.8, 3.8, 4
NDTX4784-7R	TXCO	very nice color, yield++, BOT, very nice color, yield++, BOT, good skin finish, good skin finish	4.5, 4.5, 4.5, 4.5
CO05228-4R	SW	, small, nice shape and skin, too small, small potato??, good skin finish	4, 4, 4, 4
COTX02293-4R	TXCO	nice shape and skin color, nice round shape, , light set+ , red to purple skin color, poor shape+, rough, small,	3.8, 4, 4, 3.8
CO05211-4R	SW	drop+, nice skin color	2.5, 3, 2.5, 2.5

Western Regional and Texas Advanced Red/Yellow Trial, Dalhart

This trial consisted of nine entries.

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

- ATTX961014-1R/Y and ATTX961014-1BR/Y received a high general rating and a best of trial designation, while AC05175-3P/Y also received high general rating (Table 4a and 4f).
- ATTX961014-1R/Y produced the highest total and marketable yield (Table 4a).
- CO04067-8R/Y had the highest yield of <4 oz. tubers, while BTX2103-1R/Y had the highest yield of 4-6 oz. tubers. ATTX01180-1R/Y had the highest yield of 10-18 oz. tubers (Table 4a).
- CO04067-8R/Y had the highest yield of culls/No. 2 tubers (Table 4a).
- ATTX01180-1R/Y had the highest percentage of marketable yield and yield of 10-18 oz. tubers. CO05037-2R/Y had the highest percentage of <4 oz. tubers (Table 4b).
- CO04159-1R had the highest average number of tubers per plant (Table 4c).
- All trial entries were early in maturity except BTX2103-1R/Y, CO04159-1R, and ATTX01180-1R/Y (Table 4c).
- COTX01403-4R/Y, BTX2103-1R/Y, CO04067-8R/Y, ATTX01180-1R/Y, and CO05037-2R/Y had the darkest yellow flesh color (Table 4d).

Comments on entries:

- ATTX961014-1R/Y Oblong Red nice shape and flesh, good skin finish, BOT+
- ATTX961014-1BR/Y Oblong Red good skin finish, nice shape and flesh, BOT
- COTX01403-4R/Y Oblong Red blocky, light skin, poor skin color and shape, nice flesh, not as good as Sierra Rose
- BTX2103-1R/Y Oblong Red some rough, light skin and flesh, smooth
- AC05175-3P/Y Round Purple some silver scurf, very nice, nice purple skin, smooth, nice flesh
- CO04067-8R/Y Round Red growth cracks, virus?, ugly, nice flesh, small+
- ATTX01180-1R/Y Oblong Red large tubers, some feathering+, nice flesh
- CO05037-2R/Y Long Red light skin, ok fingerling shape, nice flesh
- CO04159-1R Round Red light set+, white flesh, low yield, nice shape

Summary:

ATTX961014-1R/Y and ATTX961014-1BR/Y were the outstanding entries based on all factors.

Dalhart
Table 4a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 9 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
ATX961014-1R/Y	TXCO	577.1	490.8	191.9	189.4	109.5	0.0	81.9	4.4	4.5
ATX961014-1BR/Y	TXCO	548.4	448.0	150.2	215.7	82.1	18.3	82.1	0.0	4.5
COTX01403-4R/Y	TXCO	535.6	436.6	133.4	177.6	125.7	11.8	69.3	17.8	3.2
BTX2103-1R/Y	TXCO	491.2	362.6	232.3	130.3	0.0	0.0	120.3	8.3	3.7
AC05175-3P/Y	SW	440.6	302.2	210.7	86.5	5.0	0.0	124.2	14.1	4.0
CO04067-8R/Y	WR	420.0	181.7	149.6	32.2	0.0	0.0	206.0	32.4	1.5
ATX01180-1R/Y	SW	408.8	353.0	101.8	125.1	126.1	0.0	49.6	6.2	3.8
CO05037-2R/Y	SW	213.7	52.5	52.5	0.0	0.0	0.0	159.5	1.7	3.8
CO04159-1R	WR	158.5	111.2	55.2	56.0	0.0	0.0	47.3	0.0	2.5
Average		421.5	304.3	142.0	112.5	49.8	3.3	104.5	9.4	3.5
L.S.D. (.05)		33.6	33.4	24.3	31.4	24.3	11.5	20.1	11.5	0.1

¹ 1=very poor to 5= excellent

Dalhart
Table 4b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 9 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
ATTX961014-1R/Y	TXCO	85.0	33.3	32.8	18.9	0.0	14.2	0.8	1.070	14.9	Oblong	Red
ATTX961014-1BR/Y	TXCO	81.7	27.4	39.3	15.0	3.3	15.0	0.0	1.070	14.9	Oblong	Red
COTX01403-4R/Y	TXCO	81.3	25.0	32.9	23.3	2.3	13.0	3.4	1.057	12.7	Oblong	Red
BTX2103-1R/Y	TXCO	73.8	47.3	26.5	0.0	0.0	24.5	1.7	1.062	13.6	Oblong	Red
AC05175-3P/Y	SW	68.7	47.8	19.8	1.1	0.0	28.2	3.1	1.058	12.8	Round	Purple
CO04067-8R/Y	WR	43.2	35.5	7.7	0.0	0.0	49.0	7.8	1.067	14.5	Round	Red
ATTX01180-1R/Y	SW	86.5	24.8	30.4	31.3	0.0	12.1	1.4	1.072	15.3	Oblong	Red
CO05037-2R/Y	SW	24.6	24.6	0.0	0.0	0.0	74.5	0.9	1.071	15.2	Long	Red
CO04159-1R	WR	70.7	34.6	36.1	0.0	0.0	29.3	0.0	1.066	14.3	Round	Red
Average		68.4	33.4	25.1	10.0	0.6	28.9	2.1	1.066	14.3		
L.S.D. (.05)		4.1	4.0	6.3	5.4	2.1	2.7	2.7	0.002	0.4		

Dalhart
Table 4c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 9 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
ATTX961014-1R/Y	TXCO	6.6	5.6	100	1.8	4.8	3.6	4.8	23
ATTX961014-1BR/Y	TXCO	6.3	5.6	100	1.5	4.2	3.6	4.4	20
COTX01403-4R/Y	TXCO	5.9	5.9	100	1.5	4.8	3.6	4.8	26
BTX2103-1R/Y	TXCO	7.7	4.1	100	1.5	4.6	4.8	4.6	0
AC05175-3P/Y	SW	8.2	3.5	100	2.0	3.8	3.3	4.0	36
CO04067-8R/Y	WR	9.7	2.8	100	1.6	4.5	3.5	4.6	33
ATTX01180-1R/Y	SW	4.3	6.6	94	1.9	3.7	4.3	3.8	5
CO05037-2R/Y	SW	6.6	2.1	100	1.4	3.6	3.4	3.7	40
CO04159-1R	WR	12.3	3.8	22	1.5	1.0	3.9	2.0	8
Average		7.5	4.4	91	1.6	3.9	3.8	4.1	21
L.S.D. (.05)		1.2	0.4	4	0.2	0.2	ns	0.2	19

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart
Table 4d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 9 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
ATTX961014-1R/Y	TXCO	3.0	3.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX961014-1BR/Y	TXCO	3.0	3.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX01403-4R/Y	TXCO	3.5	3.5	1.0	4.0	3.5	5.0	5.0	5.0	5.0	4.0	0	0	0	0
BTX2103-1R/Y	TXCO	3.5	3.5	1.0	4.0	3.6	5.0	5.0	5.0	5.0	4.0	0	0	0	0
AC05175-3P/Y	SW	2.9	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO04067-8R/Y	WR	3.5	2.0	1.0	4.0	3.5	2.0	5.0	5.0	5.0	4.0	0	0	0	0
ATTX01180-1R/Y	SW	3.5	3.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	3.1	0	0	0	0
CO05037-2R/Y	SW	3.5	4.0	1.0	4.0	3.1	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO04159-1R	WR	1.0	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	4.0	0	0	0	0
Average		3.0	3.0	1.0	4.0	3.7	4.7	5.0	5.0	5.0	4.3	0	0	0	0
L.S.D. (.05)															

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Dalhart
Table 4e.

Notes and general rating for all reps of 9 entries in the Western and Southwestern Regional
Red/Yellow Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Notes Grading	General Rating Grading
ATTX961014-1R/Y	TXCO	nice shape and flesh, , good skin finish, BOT+,	4.5, 4.5, 4.3, 4.5
ATTX961014-1BR/Y	TXCO	good skin finish, nice shape and flesh, BOT, , , blocky, light skin, poor skin color and shape, nice flesh,	4.5, 4.5, 4.5, 4.5
COTX01403-4R/Y	TXCO	, not as good as Sierra Rose	3.6, 3, 3, 3
BTX2103-1R/Y	TXCO	some rough, light skin and flesh, smooth, , , , good skin finish, some silver scurf, very nice , nice	3.7, 3.7, 3.7, 3.7
AC05175-3P/Y	SW	purple skin, smooth, nice flesh	3.8, 4, 4, 4
CO04067-8R/Y	WR	, growth cracks, virus?, ugly, nice flesh, , small+	1.5, 1.5, 1.5, 1.5
ATTX01180-1R/Y	SW	large tubers, , some feathering+, nice flesh,	3.8, 3.8, 3.8, 3.8
CO05037-2R/Y	SW	light skin, ok fingerling shape, nice flesh, , ,	3.8, 3.8, 3.6, 3.8
CO04159-1R	WR	light set+, , white flesh, low yield, nice shape,	2.5, 2.5, 2.5, 2.5

Western Regional and Texas Advanced White/Yellow Trial, Dalhart

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

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

- CO05037-3W/Y had the highest general rating and a best of trial designation, while Yukon Gold and Sierra Gold had high general ratings (Table 5a and 5e).
- Yukon Gold produced the highest total and marketable yield, while TXYG079 had the highest yield of over 10 oz. tubers (Table 5a).
- CO05037-3W/Y had the highest yield of <4 oz. tubers, while Yukon Gold had the highest yield of culls/No. 2 tubers (Table 5a).
- Sierra Gold had the highest percentage of marketable yield, while A02267-1Y had the highest percentage of <4 oz. tubers. Sierra Gold had the highest percentage of culls/No. 2 tubers (Table 5b).
- CO04099-3W/Y had the highest specific gravity (Table 5b).
- A02267-1Y had the highest average number of tubers per plant (Table 5c).
- COTX04015-3AW/Y, CO04099-3W/Y, and A02267-1Y were the latest maturing entries, while CO05037-3W/Y was the earliest maturing entry (Table 5c).
- COTX04015-3AW/Y had the darkest flesh color (Table 5d).
- COTX04015-3AW/Y had the highest percentage of hollow heart (Table 5e).

Comments on entries:

- | | | |
|-------------------|---------------|---|
| • Yukon Gold | Oblong White | nice flesh, large, oversized, nice shape, no hollow heart |
| • TXYG079 | Oblong White | oversized, nice shape, |
| • COTX04015-3AW/Y | Round White | some rough, poor shape, nice flesh |
| • TXYG057 | Oblong White | oversized, smooth, light set, hollow heart on very large tubers |
| • CO04099-3W/Y | Round White | nice uniform shape, light flesh, some feathering+, red eye |
| • CO05037-3W/Y | Round White | nice shape and size, light flesh, BOT |
| • Sierra Gold | Oblong Russet | very nice shape and flesh, light set, large tubers |
| • A02267-1Y | Round White | small tuber, light flesh, nice uniform size, small |

Summary:

CO05037-3W/Y, Yukon Gold, and Sierra Gold were the outstanding entries based on all factors.

Dalhart
Table 5a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 8 entries in the Western and Southwestern Regional White/Yellow Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
Yukon Gold	WR	689.5	532.3	74.9	238.1	219.3	65.5	60.4	31.3	4.0
TXYG079	TXCO	660.5	502.4	76.5	172.6	253.3	105.2	33.8	19.1	3.9
COTX04015-3AW/Y	TXCO	540.1	416.5	253.1	124.5	39.0	0.0	123.6	0.0	3.6
TXYG057	TXCO	514.0	371.3	74.5	166.8	130.1	84.6	46.5	11.6	3.8
CO04099-3W/Y	WR	486.0	269.9	157.0	89.4	23.4	0.0	200.2	16.0	3.8
CO05037-3W/Y	SW	466.1	243.9	175.1	59.9	8.9	0.0	218.2	3.9	4.1
Sierra Gold	TXCO	415.1	331.5	81.3	119.3	130.9	20.7	36.3	26.6	4.1
A02267-1Y	WR	359.3	173.8	151.8	22.0	0.0	0.0	174.2	11.2	3.7
Average		516.3	355.2	130.5	124.1	100.6	34.5	111.6	15.0	3.9
L.S.D. (.05)		34.3	39.5	43.6	32.3	30.0	28.4	34.4	ns	4.2

¹ 1=very poor to 5= excellent

Dalhart
Table 5b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 8 entries in the Western and Southwestern Regional White/Yellow Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Yukon Gold	WR	77.2	10.8	34.6	31.8	9.6	8.7	4.5	1.074	15.7	Oblong	White
TXYG079	TXCO	76.0	11.6	26.2	38.3	15.9	5.1	3.0	1.078	16.5	Oblong	White
COTX04015-3AW/Y	TXCO	77.1	46.9	23.0	7.2	0.0	22.9	0.0	1.080	16.8	Round	White
TXYG057	TXCO	72.3	14.6	32.5	25.3	16.3	9.1	2.3	1.079	16.7	Oblong	White
CO04099-3W/Y	WR	55.9	32.5	18.4	4.9	0.0	40.7	3.4	1.081	16.9	Round	White
CO05037-3W/Y	SW	52.2	37.4	12.8	2.0	0.0	46.9	0.9	1.068	14.7	Round	White
Sierra Gold	TXCO	80.0	20.7	27.8	31.5	4.9	8.7	6.4	1.076	16.0	Oblong	Russet
A02267-1Y	WR	47.4	41.3	6.1	0.0	0.0	49.2	3.4	1.062	13.6	Round	White
Average		67.3	27.0	22.7	17.6	5.8	23.9	3.0	1.075	15.9		
L.S.D. (.05)		9.0	10.3	6.4	5.3	4.5	7.1	ns	0.002	0.4		

Dalhart
Table 5c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 8 entries in the Western and Southwestern Regional White/Yellow Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
Yukon Gold	WR	5.8	7.6	100	1.2	4.7	3.5	4.6	15
TXYG079	TXCO	4.4	9.7	100	1.0	4.3	3.7	4.4	15
COTX04015-3AW/Y	TXCO	8.0	4.4	100	2.0	3.6	4.5	3.8	0
TXYG057	TXCO	4.0	8.2	100	1.3	4.3	3.5	4.3	27
CO04099-3W/Y	WR	9.0	3.5	100	1.5	4.7	4.4	4.7	0
CO05037-3W/Y	SW	8.8	3.4	100	1.5	3.9	2.8	4.0	53
Sierra Gold	TXCO	3.2	8.3	100	1.5	3.4	3.5	3.6	20
A02267-1Y	WR	9.2	2.5	100	1.8	4.4	4.8	4.3	0
Average		6.5	5.9	100	1.5	4.2	3.8	4.2	16
L.S.D. (.05)		0.7	0.4		0.3	0.4	0.2	0.4	8

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart
Table 5d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 8 entries in the Western and Southwestern Regional White/Yellow Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
Yukon Gold	WR	2.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXYG079	TXCO	2.5	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04015-3AW/Y	TXCO	3.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	20	0	0	0
TXYG057	TXCO	2.5	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	10	0	0	0
CO04099-3W/Y	WR	3.0	2.3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
CO05037-3W/Y	SW	2.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.3	0	0	0	0
Sierra Gold	TXCO	3.0	3.5	3.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A02267-1Y	WR	2.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
Average		2.6	2.8	1.3	4.0	1.3	5.0	5.0	5.0	5.0	4.6	4	0	0	0
L.S.D. (.05)												4			

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Dalhart
Table 5e.

Notes and general rating for all reps of 8 entries in the Western and Southwestern Regional
White/Yellow Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Notes Grading	General Rating Grading
Yukon Gold	WR	nice flesh, large, oversized, nice shape, , no hollow heart	4, 4, 4, 4
TXYG079	TXCO	, , oversized, nice shape,	3.9, 3.9, 3.9, 3.8
COTX04015-3AW/Y	TXCO	some rough, poor shape, nice flesh, , , very large tubers, oversized, smooth, , light set, hollow	3.6, 3.6, 3.6, 3.6
TXYG057	TXCO	heart on very large tubers, nice uniform shape, light flesh, some feathering+, , red	3.8, 3.8, 3.8, 3.8
CO04099-3W/Y	WR	eye	3.8, 3.8, 3.8, 3.8
CO05037-3W/Y	SW	nice shape and size, light flesh, BOT, , ,	4.2, 4, 4.1, 4
Sierra Gold	TXCO	very nice shape and flesh, , , light set, large tubers	4, 4.2, 4.1, 4.2
A02267-1Y	WR	small tuber, light flesh, , nice uniform size, small,	3.6, 3.6, 3.8, 3.8

Southwestern Regional and Texas Advanced Purple Flesh Selection Trial, Dalhart

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

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

- NDTX091886-3P/P had the highest general rating (Table 8e).
- TX09429-1P/P had the highest total, marketable and yield of <4 oz. tubers (Table 8a)
- COTX05082-2P/P had the highest percentage of marketable yield (Table 8b).
- CO05062-2P/P had the highest percent yield of <4 oz. tubers (Table 8b).
- TX09429-1P/P had the highest number of tubers per plant (Table 8c).
- NDTX091886-3P/P was the latest maturing entry, while all other entries were earlier in maturity (Table 8c).
- TX09429-1P/P, TX09406-3P/P, and COTX05082-2P/P had the darkest purple flesh (Table 8d).

Comments on entries:

- TX09429-1P/P Oblong Purple send to CA, very dark flesh, heavy yield
- NDTX091886-3P/P Round Purple smooth
- TX09423-3P/P Round Purple better size distribution, lighter flesh
- TX09406-3P/P Oblong Purple poor shape, feathering, very dark flesh
- Purple Majesty Oblong Purple
- COTX05082-2P/P Long Purple long, rough, poor shape, very dark flesh, keep for flesh color
- CO05062-2P/P Oblong Purple small, drop
- COTX08046-8P/P Round Purple knobs, poor shape, drop

Summary:

NDTX091886-3P/P was the outstanding entry for this trial based on all factors.

Dalhart
Table 6a.

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 Southwestern Regional and Texas Advanced Purple Flesh Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
TX09429-1P/P	TXPFL	651.5	405.9	227.5	169.1	9.3	0.0	245.6	0.0	3.5
NDTX091886-3P/P	TXPFL	544.9	368.2	262.2	106.0	0.0	0.0	176.7	0.0	4.0
TX09423-3P/P	TXPFL	530.0	340.4	189.0	128.2	23.2	0.0	189.6	0.0	3.5
TX09406-3P/P	TXPFL	510.3	359.3	180.5	159.3	19.5	0.0	151.0	0.0	3.5
Purple Majesty	SW	474.0	242.5	213.4	29.0	0.0	0.0	231.5	0.0	3.5
COTX05082-2P/P	TXPFL	453.9	329.4	159.5	154.1	15.8	0.0	124.5	0.0	2.5
CO05062-2P/P	SW	326.5	94.6	94.6	0.0	0.0	0.0	231.9	0.0	3.0
COTX08046-8P/P	TXPFL	255.6	154.1	101.6	48.1	4.4	0.0	101.4	0.0	2.5
Average		468.3	286.8	178.5	99.2	9.0	0.0	181.5	0.0	3.3
L.S.D. (.05)		60.6	92.7	74.7	62.7	ns		74.2		0.3

¹ 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, tuber type and skin type of 8 entries in the Southwestern Regional and Texas Advanced Purple Flesh Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2		
TX09429-1P/P	TXPFL	62.1	34.9	25.7	1.5	0.0	37.9	0.0	Oblong	Purple
NDTX091886-3P/P	TXPFL	67.4	48.3	19.1	0.0	0.0	32.6	0.0	Round	Purple
TX09423-3P/P	TXPFL	62.7	35.3	23.1	4.2	0.0	37.3	0.0	Round	Purple
TX09406-3P/P	TXPFL	70.7	36.1	31.1	3.6	0.0	29.3	0.0	Oblong	Purple
Purple Majesty	SW	52.1	45.2	6.9	0.0	0.0	47.9	0.0	Oblong	Purple
COTX05082-2P/P	TXPFL	72.2	34.7	33.9	3.6	0.0	27.8	0.0	Long	Purple
CO05062-2P/P	SW	28.3	28.3	0.0	0.0	0.0	71.7	0.0	Oblong	Purple
COTX08046-8P/P	TXPFL	60.2	40.3	18.4	1.6	0.0	39.8	0.0	Round	Purple
Average		59.5	37.9	19.8	1.8	0.0	40.5	0.0		
L.S.D. (.05)		17.1	ns	12.3	ns		17.1			

Dalhart
Table 6c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 8 entries in the Southwestern Regional and Texas Advanced Purple Flesh Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
TX09429-1P/P	TXPFL	10.6	4.0	100	1.5	4.8	3.5	4.8	14
NDTX091886-3P/P	TXPFL	9.1	3.8	100	1.5	4.8	4.3	4.8	5
TX09423-3P/P	TXPFL	9.9	3.5	100	1.5	4.1	3.4	4.1	23
TX09406-3P/P	TXPFL	7.7	4.3	100	1.5	3.6	3.5	3.7	19
Purple Majesty	SW	9.9	3.1	100	1.5	4.1	3.4	4.2	20
COTX05082-2P/P	TXPFL	7.3	4.0	100	1.9	4.3	3.5	4.3	10
CO05062-2P/P	SW	8.0	2.8	100	1.8	3.9	3.7	4.0	15
COTX08046-8P/P	TXPFL	4.8	3.5	100	2.1	3.4	3.4	3.4	14
Average		8.4	3.6	100	1.7	4.1	3.6	4.2	15
L.S.D. (.05)		1.9	0.6		0.2	0.4	0.4	0.3	ns

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart
Table 6d.

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 8 entries in the Southwestern Regional and Texas Advanced Purple Flesh Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russetting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
TX09429-1P/P	TXPFL	5.0	3.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX091886-3P/P	TXPFL	3.5	2.0	1.0	3.6	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09423-3P/P	TXPFL	3.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09406-3P/P	TXPFL	5.0	3.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	2.0	0	0	0	0
Purple Majesty	SW	3.5	3.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX05082-2P/P	TXPFL	5.0	4.0	1.0	2.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05062-2P/P	SW	3.0	3.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08046-8P/P	TXPFL	2.5	4.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.8	3.3	1.0	3.7	5.0	5.0	5.0	5.0	5.0	4.6	0	0	0	0
L.S.D. (.05)															

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Dalhart
Table 6e.

Notes and general rating for all reps of 8 entries in the Southwestern Regional and Texas Advanced Purple Flesh Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Grading
TX09429-1P/P	TXPFL	, send to CA, ,	, very dark flesh, heavy yield, ,	3.5, 3.5, 3.5, 3.5
NDTX091886-3P/P	TXPFL	, , ,	, , , smooth	4, 4, 4, 4
TX09423-3P/P	TXPFL	, , , better size distribution	, , , lighter flesh	3.5, 3.5, 3.5, 3.5
TX09406-3P/P	TXPFL	, poor shape, ,	, feathering, very dark flesh, ,	3.5, 3.5, 3.5, 3.5
Purple Majesty	SW	, , ,	, , ,	3.5, 3.5, 3.5, 3.5
COTX05082-2P/P	TXPFL	, , , send to RPE	, , , long, rough, poor shape, very dark flesh, keep for flesh color	2.5, 2.5, 2.5, 2.5
CO05062-2P/P	SW	, , ,	, , , small, drop	3, 3, 3, 3
COTX08046-8P/P	TXPFL	, , ,	, , knobs, poor shape, drop,	2.5, 2.5, 2.5, 2.5

Commercial Variety Chip Trial, Dalhart

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

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

- FL1867 received a high general rating and a best of trial notation for tuber appearance, while FL2360 received a high general rating. FL2385 had over 90% good chips (Table 9a, 9e, and 9f).
- FL2053 had the highest total yield, while FL2137 had the highest marketable yield (Table 9a).
- FL2053 had the highest yield of <4 oz. tubers, while Atlantic had the highest yield of culls/No. 2 tubers (Table 9a).
- FL2137 had the highest percentage of marketable yield. FL2053 had the highest percentage of <4 oz. tubers (Table 9b).
- FL2053, FL2137, Atlantic, FL2385, and FL2360 had the highest specific gravity (Table 9b).
- FL2053, FL2137, FL2312, FL2048, and FL2360 were the latest maturing entries, while FL1867, Atlantic, and FL2385 were the earliest maturing entries (Table 9c).
- Atlantic and FL2360 had 35% hollow heart (Table 9d).

Comments on entries:

- FL2053 Oblong White too oblong, rough, ugly, drop, CR=1
- FL2137 Oblong White large tubers, light set, CR=1
- FL2312 Round White light set, large tubers, CR=1
- FL2048 Oblong White nice shape, low yield, CR=1
- FL1867 Round White large tubers, BOT, CR=1
- Atlantic Round Buff nice shape, hollow heart, oversized, CR= 1
- FL2385 Round White CR=1
- FL2360 Round White smaller tubers, nice shape, hollow heart, smooth, very large tubers, light set, CR=1

1CR=chip color rating 1=light to 5= dark

Summary:

Based on all factors, FL1867 and FL2360 were the outstanding entries. FL2385 had over 90% good chips.

Dalhart 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 Commercial Variety Trial
 Table 7a. grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
FL2053	COMM	577.5	424.4	145.6	191.7	87.1	0.0	141.3	11.8	2.5
FL2137	COMM	568.8	533.3	101.4	219.0	212.8	0.0	34.8	0.6	3.1
FL2312	COMM	531.4	427.5	145.6	200.4	81.5	0.0	103.9	0.0	3.9
FL2048	COMM	492.2	440.6	107.0	196.6	136.9	0.0	37.3	14.3	3.6
FL1867	COMM	485.4	405.7	108.9	147.5	149.3	0.0	63.5	16.2	4.4
Atlantic	COMM	483.5	372.1	66.6	161.8	143.7	22.4	50.4	38.6	3.6
FL2385	COMM	413.8	341.0	51.0	134.4	155.6	62.9	3.1	6.8	2.5
FL2360	COMM	385.2	295.6	178.0	117.6	0.0	0.0	89.6	0.0	4.0
Average		492.2	405.0	113.0	171.1	120.9	10.7	65.5	11.0	3.4
L.S.D. (.05)		48.3	57.7	43.2	34.6	17.1	21.7	30.1	ns	0.2

¹ 1=very poor to 5= excellent

Dalhart 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 8 entries in the Commercial Variety Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
FL2053	COMM	73.6	25.4	33.2	15.0	0.0	24.4	2.0	1.100	20.4	Oblong	White
FL2137	COMM	93.9	17.7	38.6	37.5	0.0	6.0	0.1	1.090	18.5	Oblong	White
FL2312	COMM	80.5	27.6	37.6	15.3	0.0	19.5	0.0	1.086	17.8	Round	White
FL2048	COMM	89.8	21.1	40.5	28.2	0.0	7.6	2.6	1.086	17.9	Oblong	White
FL1867	COMM	83.2	22.3	29.9	31.0	0.0	13.7	3.1	1.086	17.8	Round	White
Atlantic	COMM	75.8	13.4	32.9	29.5	5.2	10.1	8.9	1.092	19.0	Round	Buff
FL2385	COMM	82.9	12.1	32.8	38.1	14.6	0.8	1.7	1.090	18.5	Round	White
FL2360	COMM	76.6	45.8	30.8	0.0	0.0	23.4	0.0	1.097	19.8	Round	White
Average		82.0	23.2	34.6	24.3	2.5	13.2	2.3	1.091	18.7		
L.S.D. (.05)		8.9	7.9	ns	5.2	4.5	6.2	ns	0.002	0.4		

Dalhart
Table 7c. Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 8 entries in the Commercial Variety Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
FL2053	COMM	8.3	4.5	100	1.5	4.7	4.8	4.7	3
FL2137	COMM	5.8	6.4	100	1.5	4.4	4.7	4.4	0
FL2312	COMM	6.2	5.5	100	1.5	4.4	4.8	4.4	0
FL2048	COMM	5.3	6.0	100	1.5	4.8	4.8	4.8	0
FL1867	COMM	5.6	5.7	100	1.5	4.8	3.5	4.8	20
Atlantic	COMM	4.8	6.7	100	1.5	4.8	3.8	4.8	5
FL2385	COMM	2.9	9.2	100	1.5	4.1	3.9	4.1	5
FL2360	COMM	6.0	4.1	100	2.0	4.6	4.4	4.6	0
Average		5.6	6.0	100	1.6	4.6	4.3	4.6	4
L.S.D. (.05)		0.9	0.9		ns	0.3	0.3	0.3	3

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart 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 8 entries in the Commercial Variety Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
FL2053	COMM	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
FL2137	COMM	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
FL2312	COMM	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
FL2048	COMM	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
FL1867	COMM	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Atlantic	COMM	1.0	2.0	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	35	0	0	0
FL2385	COMM	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
FL2360	COMM	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	35	0	0	0
Average		1.0	2.6	1.1	4.0	1.1	5.0	5.0	5.0	5.0	5.0	9	0	0	0
L.S.D. (.05)												22			

¹ 1=light to 5=dark
² 1=round to 5=long
³ 1=none to 5=heavy
⁴ 1=deep to 5=shallow
⁵ 1=light to 5=dark

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

Dalhart Notes and general rating for all reps of 8 entries in the Commercial Variety Trial grown near
 Table 7e. Dalhart, Texas-2013.

Variety or Selection	Trial	Notes Grading	General Rating Grading
FL2053	COMM	too oblong, rough, ugly, drop, ,	2.5, 2.5, 2.5, 2.5
FL2137	COMM	large tubers, light set, , ,	3.5, 3, 3, 3
FL2312	COMM	light set, large tubers, , ,	4, 3.8, 3.8, 3.8
FL2048	COMM	nice shape, low yield, ,	3.8, 3.5, 3.5, 3.5
FL1867	COMM	large tubers, Best of Trial, , ,	4, 4.5, 4.5, 4.5
Atlantic	COMM	nice shape, hollow heart, oversized, ,	4, 3.5, 3.5, 3.5
FL2385	COMM	, , , smaller tubers, nice shape, hollow heart, smooth, very	2.5, 2.5, 2.5, 2.5
FL2360	COMM	large tubers, light set,	4, 4, 4, 4

Dalhart Table 7f. Specific gravity, percent solids, chip color rating, good chip bad chip ratio, notes, percentage of Zebra Defect at chipping, and percentage Zebra Defect at grading of 8 entries in the Commercial Variety Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Gravity	% Solids	Chip Color ²	Good/Bad Chip Ratio	Notes ³	Percent Zebra Defect	Percent Zebra Defect at Grading
FL2053	COMM	1.100	20.4	1	26/14		0%	0%
FL2137	COMM	1.090	18.5	1	24/16		0%	0%
FL2312	COMM	1.086	17.8	1	30/10		0%	0%
FL2048	COMM	1.086	17.9	1	20/16	1 CB1 CB	0%	0%
FL1867	COMM	1.086	17.8	1	32/12		0%	0%
Atlantic	COMM	1.092	19.0	1	16/24	1 GH1 CB1 GH1 CB	0%	0%
FL2385	COMM	1.090	18.5	1	40/4		0%	0%
FL2360	COMM	1.097	19.8	1	18/22	1 GH1 GH	0%	0%

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

¹1=poor, 5=excellent

²1=light, 3+=very dark

³BOT=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,

Texas Advanced Chip Selection Trial, Dalhart

This trial consisted of twenty-six entries, including the check variety Atlantic.

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

- TX09403-14W and NDTX081644CAB-2W were the outstanding entries for this trial based on general ratings and best of trial designations for tuber and chip quality, while NDTX102514ABC-5W and NDTX060700C-1W received a high general rating and a best of trial notation for chip quality (Tables : a, : e, and : f).
- NDTX091908AB-2W had the highest total and marketable yield. NDTX091908AB-2W had the highest yield of 4-6 oz. tubers (Table : a).
- NDTX081644CAB-2W had the highest yield of <4 oz. tubers. ATTX07042-3W had the highest yield of culls/No. 2 tubers (Table : a).
- NDTX102462C-2W had the highest percentage of marketable yield. NDTX102462C-6W had the highest percentage of 4-6 oz. tubers, while NDTX081644CAB-2W had the highest percentage of <4 oz. tubers. COTX09089-1Ru had the highest percentage of culls/No. 2 tubers (Table : b).
- NDTX060700C-1W and NDTX102462C-2W had the highest specific gravity (Table : b).
- NDTX102514ABC-5W had the highest average number of tubers per plant (Table : c).
- NDTX102514ABC-5W, COTX09022-5Ru/Y, NDTX081648CB-4W, TX08356-8W, AOTX95295-1W, TX09414-1W, COTX09089-1Ru, ATTX07042-2W, and NDTX102461AB-4W were the latest maturing entries, while TX08356-1W and NDTX102557-1W were the earliest maturing entries (Table : c).
- Atlantic, NDTX091908AB-2W, TX08352-2Ru, TX09414-1W, and TX09396-1W had the highest percentage hollow heart (Table : d).
- NDTX102514ABC-5W, TX09403-14W, NDTX071109C-1W, NDTX081648CB-2W, NDTX060700C-1W, NDTX102462C-2W, and NDTX102461AB-4W had over 80% good chips (Table : f).

Comments on entries:

- NDTX091908AB-2W Oblong White yield++, nice shape, heavy set and yield, nice flesh, BOT+, CR=1
- NDTX102514ABC-5W Round White 20% IBS, poor internals, heavy set, nice shape and distribution, very small tubers, small potato??, CR=1
- NDTX092340AB-1C-1W Oblong White poor shape, flat, heavy set, light set and yield, CR=1
- TX08356-1W Oblong White yellow flesh, nice shape, smooth, CR=3
- COTX09022-5Ru/Y Oblong RD-Eye Larson??, nice yellow flesh, red eye, move to yellow flesh trial, CR=3
- NDTX081648CB-4W Round White nice shape and size, BOT-, CR=1
- NDTX102557-1W Oblong White oval, flat small, yellow flesh, nice shape and size, move to yellow flesh trial, CR=1
- NDTX102462C-6W Round White yield+, nice size and shape, CR=1
- TX08352-2Ru Oblong Russet move to russet trial??, drop for HH, CR=1
- TX08356-8W Round White nice shape and size, CR=1
- ATTX07042-3W Oblong White yellow flesh, nice flesh and shape, CR=3
- TX09403-14W Round White yield++, heavy set, nice shape, small, BOT, CR=1
- AOTX95295-1W Oblong White nice shape, light set, variable size, CR=1
- NDTX071109C-1W Round White some rough, nice shape, size, and flesh, CR=1
- NDTX081648CB-1W Round White nice shape and size, large tubers, nice flesh, light set and yield, CR=1
- NDTX081648CB-2W Round White small potato??, nice shape and size, CR=1
- NDTX081644CAB-2W Round White small potato??, nice size and shape, nice flesh, BOT-, CR=1
- TX09414-1W Oblong White large tubers, rough, nice shape, poor internals, light set, CR=1
- TX09396-1W Oblong White nice shape, light set, CR=2
- NDTX081648CB-13W Round White nice size, nice flesh, nice shape, CR=1
- COTX09089-1Ru Oblong White CR=1
- NDTX071217CB-1W/Y Round White nice shape and flesh, large tubers, yellow flesh, light yield, small, CR=3
- ATTX07042-2W Oblong White large tubers, rough light yellow flesh, light set, CR=3
- NDTX060700C-1W Round White nice shape, very light set, small potato??, CR=1
- NDTX102462C-2W Round White CR=1

- NDTX102461AB-4W Oblong White light set and yield, CR=1
1CR=chip color rating 1=light to 3= dark

Summary:

TX09403-14W and NDTX081644CAB-2W were the outstanding entries for this trial based on general ratings and best of trial designations for tuber and chip quality. The following entries will be reentered in the National Chip trial (NDTX060700C-1W, NDTX081644CAB-2W, NDTX081648CB-13W, NDTX091908AB-2W, TX09396-1W, and COTX09022-5Ru/Y. New entries for the National Chip Trial are: NDTX102462C-6W, NDTX102514ABC-5W, NDTX102557-1W, and TX09403-14W.

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 Chip Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
NDTX091908AB-2W	TXCH	647.8	481.2	257.0	186.9	37.3	0.0	151.0	15.6	3.8
NDTX102514ABC-5W	TXCH	602.2	235.8	185.9	50.0	0.0	0.0	354.7	11.6	4.1
NDTX092340AB-1C-1W	TXCH	536.4	394.9	219.5	150.6	24.9	0.0	115.7	25.7	3.5
TX08356-1W	TXCH	517.7	445.1	123.2	180.5	141.5	0.0	72.6	0.0	4.0
COTX09022-5Ru/Y	TXCH	515.5	363.4	173.8	181.3	8.3	0.0	125.1	27.0	3.7
NDTX081648CB-4W	TXCH	513.4	409.9	111.6	215.1	83.2	0.0	73.8	29.7	4.0
NDTX102557-1W	TXCH	498.9	317.2	145.8	158.5	12.9	0.0	153.9	27.8	3.4
NDTX102462C-6W	TXCH	496.4	313.2	214.1	69.9	29.2	0.0	182.5	0.6	3.6
TX08352-2Ru	TXCH	488.0	411.5	125.5	173.0	113.0	20.3	50.3	5.8	3.2
TX08356-8W	TXCH	481.7	345.1	145.1	152.3	47.7	13.3	99.6	23.8	4.0
ATTX07042-3W	TXCH	475.6	385.8	81.5	187.9	116.4	0.0	49.4	40.4	4.1
TX09403-14W	TXCH	472.1	268.6	206.9	54.5	7.3	0.0	202.5	1.0	4.2
AOTX95295-1W	TXCH	446.6	356.2	122.2	176.7	57.3	0.0	85.0	5.4	3.4
Atlantic	WR	442.9	368.8	118.0	148.5	102.3	0.0	68.0	6.0	4.0
NDTX071109C-1W	TXCH	433.3	359.3	114.1	137.3	107.9	0.0	67.0	7.1	3.6
NDTX081648CB-1W	TXCH	429.0	362.6	93.8	198.3	70.5	0.0	56.4	10.0	3.4
NDTX081648CB-2W	TXCH	429.0	283.3	161.8	108.7	12.9	2.7	132.3	10.6	3.9
NDTX081644CAB-2W	TXCH	414.4	42.1	23.6	18.5	0.0	0.0	370.3	2.1	4.3
TX09414-1W	TXCH	413.0	349.1	78.2	168.0	102.9	5.0	45.2	13.7	3.3
TX09396-1W	TXCH	380.0	322.6	105.6	145.6	71.4	0.0	56.0	1.5	3.6
NDTX081648CB-13W	TXCH	372.7	275.9	117.0	133.2	25.7	0.0	94.6	2.3	3.7
COTX09089-1Ru	TXCH	336.9	214.1	189.2	24.9	0.0	0.0	86.3	36.5	4.0
NDTX071217CB-1W/Y	TXCH	315.3	225.9	72.2	107.4	46.3	0.0	75.9	13.5	3.4
ATTX07042-2W	TXCH	305.3	237.3	64.5	85.0	87.7	22.8	30.9	14.3	2.9
NDTX060700C-1W	TXCH	246.0	45.2	42.3	0.0	2.9	0.0	195.8	5.0	4.1
NDTX102462C-2W	TXCH	170.5	165.5	58.9	85.0	21.6	0.0	5.0	0.0	2.9
NDTX102461AB-4W	TXCH	160.1	114.1	51.9	56.8	5.4	0.0	39.0	7.1	3.0
Average		448.4	312.6	131.7	128.5	52.4	2.6	119.8	13.5	3.7
L.S.D. (.05)		62.0	62.0	47.7	54.0	33.1	10.7	44.0	21.2	0.5

¹ 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 Chip Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
NDTX091908AB-2W	TXCH	73.9	40.3	28.1	5.6	0.0	23.6	2.5	1.078	16.4	Oblong	White
NDTX102514ABC-5W	TXCH	39.6	31.3	8.3	0.0	0.0	58.6	1.8	1.077	16.3	Round	White
NDTX092340AB-1C-1W	TXCH	73.6	41.0	28.0	4.6	0.0	21.6	4.8	1.078	16.3	Oblong	White
TX08356-1W	TXCH	86.0	23.6	34.7	27.7	0.0	14.0	0.0	1.071	15.2	Oblong	White
COTX09022-5Ru/Y	TXCH	70.7	32.8	36.0	1.9	0.0	23.9	5.4	1.080	16.8	Oblong	RD-Eye
NDTX081648CB-4W	TXCH	79.8	22.0	41.7	16.1	0.0	14.3	5.9	1.067	14.5	Round	White
NDTX102557-1W	TXCH	63.6	29.3	31.5	2.8	0.0	30.9	5.5	1.086	17.9	Oblong	White
NDTX102462C-6W	TXCH	63.3	43.9	13.8	5.6	0.0	36.6	0.1	1.082	17.1	Round	White
TX08352-2Ru	TXCH	84.5	25.7	35.7	23.1	4.2	10.1	1.2	1.073	15.6	Oblong	Russet
TX08356-8W	TXCH	71.5	30.0	31.6	9.9	2.7	20.8	5.0	1.076	16.1	Round	White
ATTX07042-3W	TXCH	79.9	17.0	38.6	24.3	0.0	10.5	9.7	1.073	15.6	Oblong	White
TX09403-14W	TXCH	57.2	44.9	11.0	1.3	0.0	42.6	0.2	1.085	17.7	Round	White
AOTX95295-1W	TXCH	79.8	27.2	39.6	13.0	0.0	19.0	1.2	1.076	16.0	Oblong	White
Atlantic	WR	83.4	26.8	33.8	22.8	0.0	15.3	1.3	1.083	17.3	Round	Buff
NDTX071109C-1W	TXCH	83.1	26.2	32.2	24.6	0.0	15.3	1.6	1.063	13.8	Round	White
NDTX081648CB-1W	TXCH	84.4	22.2	45.8	16.4	0.0	13.1	2.5	1.065	14.1	Round	White
NDTX081648CB-2W	TXCH	66.0	37.8	25.3	2.9	0.6	30.9	2.5	1.071	15.2	Round	White
NDTX081644CAB-2W	TXCH	9.8	5.5	4.3	0.0	0.0	89.8	0.5	1.079	16.7	Round	White
TX09414-1W	TXCH	84.5	19.5	40.7	24.3	1.2	11.1	3.1	1.073	15.6	Oblong	White
TX09396-1W	TXCH	84.6	28.4	38.0	18.2	0.0	15.0	0.4	1.086	17.9	Oblong	White
NDTX081648CB-13W	TXCH	74.3	31.6	35.8	6.9	0.0	25.1	0.6	1.084	17.4	Round	White
COTX09089-1Ru	TXCH	63.5	56.2	7.4	0.0	0.0	25.6	10.8	1.084	17.6	Oblong	White
NDTX071217CB-1W/Y	TXCH	71.6	25.4	34.8	11.5	0.0	24.4	4.0	1.060	13.2	Round	White
ATTX07042-2W	TXCH	79.0	22.0	28.6	28.5	6.7	10.1	4.2	1.071	15.1	Oblong	White
NDTX060700C-1W	TXCH	17.9	16.8	0.0	1.0	0.0	80.2	2.0	1.093	19.1	Round	White
NDTX102462C-2W	TXCH	97.1	35.9	50.3	10.9	0.0	2.9	0.0	1.088	18.2	Round	White
NDTX102461AB-4W	TXCH	71.3	32.6	35.5	3.3	0.0	24.4	4.3	1.080	16.8	Oblong	White
Average		69.0	29.1	28.2	11.7	0.6	27.3	3.1	1.077	16.2		
L.S.D. (.05)		9.1	9.5	9.3	7.1	2.9	7.3	4.8	0.005	0.9		

Dalhart
Table 8c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 25 entries in the Texas Chip Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
NDTX091908AB-2W	TXCH	10.0	4.2	100	1.5	4.6	3.9	4.6	6
NDTX102514ABC-5W	TXCH	13.1	3.0	100	1.9	4.6	4.4	4.6	4
NDTX092340AB-1C-1W	TXCH	8.8	3.9	100	1.6	4.6	3.6	4.7	9
TX08356-1W	TXCH	6.0	5.6	100	1.6	4.7	2.0	4.7	58
COTX09022-5Ru/Y	TXCH	8.3	4.0	100	1.5	4.8	4.3	4.7	0
NDTX081648CB-4W	TXCH	6.6	5.0	100	1.5	4.8	4.1	4.8	16
NDTX102557-1W	TXCH	8.3	3.9	100	2.0	4.7	2.0	4.7	66
NDTX102462C-6W	TXCH	8.7	3.7	100	1.9	4.8	3.8	4.8	15
TX08352-2Ru	TXCH	5.0	6.3	100	1.6	4.1	3.1	4.1	29
TX08356-8W	TXCH	6.7	4.6	100	1.5	4.7	4.0	4.7	13
ATTX07042-3W	TXCH	5.1	6.1	100	1.5	4.2	3.6	4.1	18
TX09403-14W	TXCH	9.4	3.2	100	1.8	4.7	3.7	4.7	6
AOTX95295-1W	TXCH	6.3	4.6	100	1.5	4.3	4.4	4.3	4
Atlantic	WR	5.0	5.7	100	1.6	4.7	4.3	4.8	0
NDTX071109C-1W	TXCH	5.4	5.3	100	1.6	4.2	2.6	4.5	53
NDTX081648CB-1W	TXCH	5.2	5.3	100	1.5	4.8	3.3	4.8	31
NDTX081648CB-2W	TXCH	7.1	3.9	100	1.5	4.8	3.5	4.8	28
NDTX081644CAB-2W	TXCH	11.0	2.7	100	2.0	4.6	3.9	4.6	14
TX09414-1W	TXCH	4.6	5.8	100	1.5	4.7	4.8	4.7	0
TX09396-1W	TXCH	4.6	5.3	100	1.5	4.6	3.7	4.6	10
NDTX081648CB-13W	TXCH	6.2	3.9	100	1.8	4.4	3.7	4.4	20
COTX09089-1Ru	TXCH	6.1	3.6	100	1.5	4.2	4.5	4.2	0
NDTX071217CB-1W/Y	TXCH	4.8	4.2	100	2.0	4.1	3.8	4.1	23
ATTX07042-2W	TXCH	5.0	5.6	73	1.6	3.1	4.3	3.5	5
NDTX060700C-1W	TXCH	7.5	2.1	100	2.0	3.9	2.9	3.9	40
NDTX102462C-2W	TXCH	2.0	5.5	100	1.6	4.8	3.8	4.8	8
NDTX102461AB-4W	TXCH	6.1	4.2	50	1.6	1.8	4.5	2.8	5
Average		7.0	4.5	99	1.7	4.5	3.7	4.5	19
L.S.D. (.05)		1.7	0.6	10	0.2	0.4	0.8	0.4	24

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart
Table 8d.

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 25 entries in the Texas Chip Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russetting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
NDTX091908AB-2W	TXCH	1.0	2.8	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	23	0	0	0
NDTX102514ABC-5W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX092340AB-1C-1W	TXCH	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX08356-1W	TXCH	2.5	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
COTX09022-5Ru/Y	TXCH	2.9	3.5	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
NDTX081648CB-4W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	18	0	0	0
NDTX102557-1W	TXCH	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102462C-6W	TXCH	2.9	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
TX08352-2Ru	TXCH	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	35	0	0	0
TX08356-8W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX07042-3W	TXCH	3.0	2.4	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
TX09403-14W	TXCH	1.0	2.4	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
AOTX95295-1W	TXCH	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	10	0	0	0
Atlantic	WR	1.0	2.0	2.0	4.0	2.5	5.0	5.0	5.0	5.0	5.0	45	0	0	0
NDTX071109C-1W	TXCH	1.0	2.4	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
NDTX081648CB-1W	TXCH	1.0	2.4	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	18	0	0	0
NDTX081648CB-2W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081644CAB-2W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09414-1W	TXCH	1.0	3.1	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	33	0	0	0
TX09396-1W	TXCH	3.0	3.1	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	28	0	0	0
NDTX081648CB-13W	TXCH	1.0	2.8	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09089-1Ru	TXCH	1.0	3.5	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX071217CB-1W/Y	TXCH	3.4	3.1	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX07042-2W	TXCH	2.5	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
NDTX060700C-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102462C-2W	TXCH	1.0	3.1	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
NDTX102461AB-4W	TXCH	1.0	2.4	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.5	2.8	1.2	4.0	1.2	5.0	5.0	5.0	5.0	5.0	10	0	0	0
L.S.D. (.05)												16			

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Dalhart
Table 8e.

Notes and general rating for all reps of 25 entries in the Texas Chip Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Notes Grading	General Rating Grading
NDTX091908AB-2W	TXCH	yield++, nice shape, BOT, heavy set and yield, nice flesh, BOT,	4, 4, 4, 3
NDTX102514ABC-5W	TXCH	20% IBS, poor internals, heavy set, small, nice shape and distribution, , very small tubers, small potato??,	4, 4, 4, 4.5
NDTX092340AB-1C-1W	TXCH	poor shape, flat, , heavy set, flat, shape??light set and yield,	3.6, 3.5, 3.5, 3.5
TX08356-1W	TXCH	yellow flesh, nice shape, smooth, , ,	4, 4, 4, 4
COTX09022-5Ru/Y	TXCH	Larson??, , , nice yellow flesh, red eye, move to yellow flesh trial	4, 4, 3.6, 3
NDTX081648CB-4W	TXCH	ok shape, , nice shape and size, BOT-,	3.8, 3.7, 4.5, 4
NDTX102557-1W	TXCH	, oval, flat small, , yellow flesh, nice shape and size, move to yell trial	3, 3.7, 3.5, 3.3
NDTX102462C-6W	TXCH	, yield+, nice size and shape, ,	2.5, 4, 4, 4
TX08352-2Ru	TXCH	move to russet trial??, drop for HH, , , russet	3.7, 3, 3, 3
TX08356-8W	TXCH	nice shape and size, , ,	4.5, 3.8, 3.8, 3.8
ATTX07042-3W	TXCH	yellow flesh, nice flesh and shape, , ,	3.6, 4, 4.3, 4.3
TX09403-14W	TXCH	yield++, heavy set, nice shape, BOT, , small	3.8, 4.3, 4.5, 4
AOTX95295-1W	TXCH	nice shape, , , light set, variable size	3, 3, 3.8, 3.8
Atlantic	WR	sever hollow heart, very nice shape and size, , , BOT	4, 4, 4, 4
NDTX071109C-1W	TXCH	, some rough, nice shape, size, and flesh,	3.5, 3.8, 3.5, 3.5
NDTX081648CB-1W	TXCH	nice shape and size, , large tubers, nice flesh, light set and yield	3, 3.7, 3, 3.7
NDTX081648CB-2W	TXCH	small potato??, , nice shape and size ,	3.7, 4, 4, 4
NDTX081644CAB-2W	TXCH	very small, small potato??, nice size and shape, BOT-, nice flesh,	4.5, 4, 4.5, 4.3
TX09414-1W	TXCH	large tubers, rough, nice shape, poor internals, light set	4, 3, 3, 3
TX09396-1W	TXCH	nice shape, light set, , ok shape,	4, 3.6, 3, 3.6
NDTX081648CB-13W	TXCH	nice size, nice flesh, nice shape, ok shape	3.6, 3.8, 3.3, 4
COTX09089-1Ru	TXCH	, , ,	4, 4, 4, 4
NDTX071217CB-1W/Y	TXCH	, nice shape and flesh, large tubers, yellow flesh, light yield, , small	3, 3.3, 3.7, 3.6
ATTX07042-2W	TXCH	large tubers, rough light yellow flesh, , light set,	3, 3.6, 2.5, 2.5
NDTX060700C-1W	TXCH	nice shape, very small, very light set, small potato??, ,	3.6, 4.3, 4.5, 4
NDTX102462C-2W	TXCH	, , ,	2.5, 3, 3, 3
NDTX102461AB-4W	TXCH	light set and yield, , ,	3, 3, 3, 3

Dalhart
Table 8f.

Specific gravity, percent solids, chip color rating, good chip bad chip ratio, notes, percentage of Zebra Defect at chipping, and percentage Zebra Defect at grading of 25 entries in the Texas Chip Trial grown near Dalhart, Texas-2013.

Variety or Selection	Rem Wt	Trial	Gravity	% Solids	Chip Color ²	Good/Bad Chip Ratio	Notes ³	Percent Zebra Defect	Percent Zebra Defect at Grading
NDTX091908AB-2W	109	TXCH	1.078	16.4	1	28/8	1 DARK CHIP	0%	0%
NDTX102514ABC-5W	110	TXCH	1.077	16.3	1	34/6	2 IBS,BOT-	3%	0%
NDTX092340AB-1C-1W	101	TXCH	1.078	16.3	1	26/14	2 CB2 CB TOO LONG?	0%	0%
TX08356-1W	79	TXCH	1.071	15.2	3	10/11	MIXED YELLOW	0%	0%
COTX09022-5Ru/Y	103	TXCH	1.080	16.8	3	29/12	1 CB2 CB	0%	0%
NDTX081648CB-4W	108	TXCH	1.067	14.5	1	31/9		0%	0%
NDTX102557-1W	108	TXCH	1.086	17.9	1	26/13	1 GH2 IBS1 CB	0%	0%
NDTX102462C-6W	104	TXCH	1.082	17.1	1	29/12		0%	0%
TX08352-2Ru	103	TXCH	1.073	15.6	1	6/25	DROP+++	0%	0%
TX08356-8W	102	TXCH	1.076	16.1	1	10/20	DROP	0%	0%
ATTX07042-3W	106	TXCH	1.073	15.6	3	13/18	1 CB, 1 SCAB, YELLOW	0%	0%
TX09403-14W	107	TXCH	1.085	17.7	1	32/7	BOT-	0%	0%
AOTX95295-1W	79	TXCH	1.076	16.0	1	18/13	3 CB, DROP	0%	0%
Atlantic	101	WR	1.083	17.3	1	31/8		0%	0%
NDTX071109C-1W	105	TXCH	1.063	13.8	1	32/8	2 CB1 GH	0%	0%
NDTX081648CB-1W	107	TXCH	1.065	14.1	1	29/10		0%	0%
NDTX081648CB-2W	90	TXCH	1.071	15.2	1	35/5	BOT	0%	0%
NDTX081644CAB-2W	96	TXCH	1.079	16.7	1	29/10	1 CB, DROP2 CB, DROP1 CB	0%	0%
TX09414-1W	107	TXCH	1.073	15.6	1	11/26	YELLOW	3%	0%
TX09396-1W	102	TXCH	1.086	17.9	2	31/9	1 GH1 CB	3%	0%
NDTX081648CB-13W	26	TXCH	1.084	17.4	1	30/9		0%	0%
COTX09089-1Ru	103	TXCH	1.084	17.6	1	6/4		0%	0%
NDTX071217CB-1W/Y	76	TXCH	1.060	13.2	3	29/10	6 CB, MIXED YELLOW, 1 CB, 1 GH, 1 CB	0%	0%
ATTX07042-2W	85	TXCH	1.071	15.1	3	7/33	BOT-1 SCAB	0%	0%
NDTX060700C-1W	17	TXCH	1.093	19.1	1	39/3		0%	0%
NDTX102462C-2W	18	TXCH	1.088	18.2	1	8/2		0%	0%
NDTX102461AB-4W		TXCH	1.080	16.8	1	9/1		0%	0%

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

¹1=poor, 5=excellent

²1=light, 3+=very dark

³BOT=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

2012 Chip Selections Trial, Dalhart

The trial consisted of 123 entries. The following 14 clones (COTX10031-1W, COTX10076-1W, COTX10076-11W, COTX10076-7W, COTX10076-8W, COTX10079-11W, NDTX102640Cb-1W, NDTX102643CAB-1W, NDTX102702C-1W, NDTX102852CB-3Ru, NDTX102852CB-4Ru, NDTX102921C-1W, NDTX113059-1W, NDTX113218C-2W, NDTX113218C-3W, NDTX113266C-1W, NDTX113277-1W, and NDTX113281B-1W) will be advanced in 2014 (Table 9).

Dalhart
Table 9

Inventory weight and Chip Notes of 17 entries to be advanced from the 2012 Chip Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Inventory Weight	Chip Notes
COTX10031-1W	12SEL	6	Keep Dal only
COTX10076-1W	12SEL	6	Keep Dal only
COTX10076-11W	12SEL	6	Keep Dal only
COTX10076-7W	12SEL	9	Keep Dal only
COTX10076-8W	12SEL	5	Keep Dal only
COTX10079-11W	12SEL	5	Keep Dal only
NDTX102640Cb-1W	12SEL	8	Keep Dal only
NDTX102643CAB-1W	12SEL	4	Keep Dal only
NDTX102702C-1W	12SEL	7	Keep Dal only
NDTX102852CB-3Ru	12SEL	2	Keep Dal only
NDTX102852CB-4Ru	12SEL	8	Keep Dal only
NDTX102921C-1W	12SEL	21	Keep Dal only
NDTX113059-1W	12SEL	13	Keep Dal only
NDTX113218C-2W	12SEL	13	Keep Dal only
NDTX113218C-3W	12SEL	9	Keep Dal only
NDTX113266C-1W	12SEL	13	Keep Dal only
NDTX113277-1W	12SEL	12	Keep Dal only
NDTX113281B-1W	12SEL	1	Keep Dal only

Texas Advanced Russet Selection Trial, Dalhart

The trial consisted of thirty-five entries, including the check variety Russet Norkotah.

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

- TX08352-5Ru, COTX09052-1Ru, TX08351-5Ru, and COTX05095-2Ru/Y were the outstanding entries for this trial, based on general rating and best of trial designations. COTX09022-3RuRE/Y, COTX09052-2Ru, COTX08258-6Ru, AOTX95265-3Ru, COTX08214-2Ru, ATX84378-6Ru, TX08350-12Ru, and COTX08322-5Ru, also had high general ratings (Tables 10a and 10e).
- COTX09042-2Ru had the highest total, marketable, and yield of 10-18 oz. tubers (Table 10a).
- COTX09150-1Ru had the highest yield of <4 oz. tubers (Table 10a).
- COTX09097-2Ru had the highest yield of culls/No.2 tubers (Table 10a).
- COTX08214-2Ru had the highest percentage of marketable yield, while ATTX07039-2Ru had the highest percentage of over 18 oz. tubers (Table 10b).
- COTX09150-1Ru had the highest percentage of <4 oz. tubers, while COTX08322-5Ru had the highest percentage of culls/No. 2 tubers (Table 10b).
- AOTX07876-1Ru had the highest specific gravity (Table 10b).
- COTX09022-3RuRE/Y, COTX09101-1Ru, TX08351-5Ru, COTX09053-1Ru, COTX08214-2Ru, and TX08350-12Ru were the latest maturing entries, while Russet Norkotah, TX08352-5Ru, ATTX07023-2Ru, COTX09150-1Ru, ATTX07039-2Ru, COTX05095-2Ru/Y, TX08352-8Ru, COTX08322-5Ru, and COTX09323-2Ru were the earliest maturing entries (Table 10c).
- AOTX07876-1Ru, COTX09150-1Ru, TX08352-3Ru, ATX84378-6Ru, and COTX08121-4Ru had the highest percentage of hollow heart (Table 10d).

Comments on entries:

- COTX09042-2Ru Long Russet yield+, parent, flat, keep
- COTX09022-3RuRE/Y Oblong Russet red eyes, keep, blocky, nice flesh, send to CA, high yield, TC?
- COTX09052-2Ru Long Russet nice skin, sent to SW, long
- Russet Norkotah Long Russet some rough, oversized, pointed, too long
- AOTX07876-1Ru Round Russet too round, severe hollow heart, drop+++

- COTX08258-6Ru Oblong Russet blocky, keep, send to CA
- AOTX95265-3Ru Long Russet keep, rough, some pointed
- TX08352-5Ru Long Russet no hollow heart, send to SW, BOT
- COTX09075-4Ru Oblong Russet variable size, blocky, drop++++
- COTX09097-2Ru Oblong Russet some pointed, nice flesh, drop+++
- ATTX07023-2Ru Long Russet too blocky, drop++++
- ATTX07039-4Ru Oblong Russet small, nice shape drop++++
- COTX09150-1Ru Oblong Russet small, blocky, drop+++
- COTX09052-1Ru Long Russet TC?, send to SW, nice shape, mixed, keep, light russet, BOT+

- COTX09101-1Ru Round Russet rough, too round?, large, drop+++
- ATTX07039-2Ru Long Russet keep, large tubers, no hollow heart
- TX08351-5Ru Long Russet keep, send to SW, good shape, nice flesh, bad rep
- COTX08322-11Ru Long Russet drop++++, poor skin, BOT-
- AOTX95265-1Ru Long Russet large tubers, keep, dark skin color, some pointed, hollow heart, bad rep, drop rep

- TX08352-3Ru Oblong Russet some blocky, nice shape, severe hollow heart, drop++++
- COTX09053-1Ru Oblong Russet blocky, light set, drop++++
- COTX08322-10Ru Long Russet keep, send 1 row to Joe
- COTX09097-3Ru Oblong Russet block, growth cracks, drop+++
- ATTX07039-6Ru Long Russet very large tubers, rough, drop++++
- COTX05095-2Ru/Y Long Russet some greening, keep
- ATX84378-6Ru Long Russet nice shape, keep, send to CA,
- COTX08121-4Ru Oblong Russet pointed, drop?
- TX08352-8Ru Oblong Russet blocky, smooth, keep, blocky, smooth, keep
- AOTX98202-1Ru Oblong Russet some rough, drop+++,
- TXNS410 Long Russet light set, growth cracks, small, keep,
- COTX09182-5Ru Long Russet rough, growth cracks, curved, drop++
- COTX09075-7Ru Long Russet growth cracks, drop+++
- TX08350-12Ru Oblong Russet mixed light and dark skin, keep dark skin
- COTX08322-5Ru Long Russet keep
- COTX09323-2Ru Long Russet low yield, drop++++

Summary:

Based on all factors TX08352-5Ru, COTX09052-1Ru, TX08351-5Ru, and COTX05095-2Ru/Y were the outstanding entries in this trial. Others deserving mention were COTX09022-3RuRE/Y, COTX09052-2Ru, COTX08258-6Ru, AOTX95265-3Ru, COTX08214-2Ru, ATX84378-6Ru, TX08350-12Ru, and COTX08322-5Ru.

Dalhart
Table 10a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 35 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
COTX09042-2Ru	TXRU	733.1	583.5	132.1	206.4	245.0	42.1	63.3	44.2	3.5
COTX09022-3RuRE/Y	TXRU	684.1	530.2	101.4	189.2	239.6	37.5	100.4	16.0	4.1
COTX09052-2Ru	TXRU	620.6	481.9	117.2	220.5	144.2	29.9	107.4	1.5	3.9
Russet Norkotah	WR	599.9	356.6	46.7	164.1	145.8	63.5	46.3	133.6	3.7
AOTX07876-1Ru	TXRU	595.9	409.3	64.7	144.4	200.2	90.4	53.3	42.9	3.2
COTX08258-6Ru	TXRU	563.2	447.4	108.7	133.0	205.8	8.7	82.1	24.9	4.0
AOTX95265-3Ru	TXRU	559.8	374.0	62.9	150.0	161.2	111.8	50.0	24.1	3.8
TX08352-5Ru	TXRU	541.6	339.4	32.6	98.7	208.1	100.6	42.1	59.5	4.5
COTX09075-4Ru	TXRU	538.3	376.5	63.5	154.5	158.5	48.1	81.3	32.4	3.7
COTX09097-2Ru	TXRU	534.3	362.2	89.6	103.7	168.8	66.0	29.5	76.7	3.3
ATTX07023-2Ru	TXRU	517.9	375.4	102.3	157.0	116.2	8.7	123.0	10.8	3.0
ATTX07039-4Ru	TXRU	515.9	361.8	84.8	155.2	121.8	44.2	84.4	25.5	3.0
COTX09150-1Ru	TXRU	491.2	337.7	143.5	120.7	73.4	0.0	144.4	9.1	3.2
COTX09052-1Ru	TXRU	479.2	407.6	83.8	149.3	174.4	12.2	48.7	10.6	4.0
COTX09101-1Ru	TXRU	467.1	286.3	34.0	92.9	159.3	97.1	31.5	52.3	2.5
ATTX07039-2Ru	TXRU	464.2	281.7	38.2	69.3	174.2	86.3	20.7	75.5	3.7
TX08351-5Ru	TXRU	455.5	324.4	78.0	113.0	133.4	48.1	65.3	17.6	4.0
COTX08322-11Ru	TXRU	450.7	351.6	51.0	129.4	171.1	63.1	27.4	8.7	3.0
AOTX95265-1Ru	TXRU	438.7	293.5	47.9	116.0	129.6	64.1	41.7	39.4	3.4
TX08352-3Ru	TXRU	437.9	299.7	65.8	112.0	122.0	45.6	69.9	22.6	3.0
COTX09053-1Ru	TXRU	412.6	283.8	27.4	88.2	168.2	79.2	25.1	24.5	3.0
COTX08322-10Ru	TXRU	390.6	314.0	84.8	137.1	92.1	0.0	65.8	10.8	3.6
COTX09097-3Ru	TXRU	386.4	251.8	49.0	71.8	131.1	26.6	30.1	78.0	2.1
ATTX07039-6Ru	TXRU	368.2	175.1	32.2	44.2	98.7	99.6	23.2	70.3	3.2
COTX05095-2Ru/Y	TXRU	367.8	269.9	87.1	108.3	74.5	0.0	77.8	20.1	3.8
COTX08214-2Ru	TXRU	339.4	294.5	37.3	105.4	151.8	0.0	41.5	3.3	4.0
ATX84378-6Ru	TXRU	338.3	253.7	48.5	82.6	122.6	35.9	34.6	14.1	4.0
COTX08121-4Ru	TXRU	331.1	206.6	66.4	56.4	83.8	0.0	68.0	56.4	3.0
TX08352-8Ru	TXRU	322.8	238.1	73.8	87.9	76.3	12.9	37.8	34.0	3.7
AOTX98202-1Ru	TXRU	305.1	234.4	79.9	70.5	84.0	0.0	45.8	24.9	3.3
TXNS410	TXRU	301.2	246.8	67.4	76.5	102.9	0.0	49.6	4.8	3.6
COTX09182-5Ru	TXRU	296.2	164.7	31.9	49.8	83.0	54.8	28.6	48.1	3.2
COTX09075-7Ru	TXRU	290.8	165.1	62.4	66.2	36.5	0.0	64.5	61.2	2.5
TX08350-12Ru	TXRU	184.2	140.2	41.5	26.6	72.2	0.0	38.2	5.8	4.0
COTX08322-5Ru	TXRU	146.0	93.8	19.1	44.8	29.9	0.0	17.4	34.8	3.8
COTX09323-2Ru	TXRU	62.2	52.3	16.6	13.3	22.4	0.0	10.0	0.0	2.2
Average		504.6	355.0	73.2	129.2	152.7	50.9	61.4	37.3	3.5
L.S.D. (.05)		49.5	55.6	25.2	42.1	45.4	41.8	28.5	21.7	0.3

¹ 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 35 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
COTX09042-2Ru	TXRU	79.6	18.1	28.3	33.3	5.8	8.6	6.0	1.074	15.7	Long	Russet
COTX09022-3RuRE/Y	TXRU	77.6	15.4	27.9	34.3	5.4	14.6	2.3	1.080	16.8	Oblong	Russet
COTX09052-2Ru	TXRU	78.0	19.3	35.5	23.3	4.3	17.5	0.2	1.075	15.8	Long	Russet
Russet Norkotah	WR	59.6	7.8	27.4	24.4	10.5	7.7	22.2	1.067	14.5	Long	Russet
AOTX07876-1Ru	TXRU	68.3	10.7	24.1	33.5	15.2	9.1	7.3	1.088	18.2	Round	Russet
COTX08258-6Ru	TXRU	79.4	19.2	23.7	36.5	1.5	14.6	4.5	1.083	17.2	Oblong	Russet
AOTX95265-3Ru	TXRU	67.2	11.1	26.9	29.1	19.7	8.9	4.3	1.064	14.0	Long	Russet
TX08352-5Ru	TXRU	63.1	6.3	18.3	38.6	18.0	8.0	10.8	1.061	13.3	Long	Russet
COTX09075-4Ru	TXRU	70.8	12.0	28.5	30.2	8.5	14.8	5.9	1.073	15.6	Oblong	Russet
COTX09097-2Ru	TXRU	67.5	16.8	19.7	31.1	12.3	5.4	14.7	1.074	15.7	Oblong	Russet
ATTX07023-2Ru	TXRU	72.9	19.6	30.8	22.6	1.6	23.4	2.1	1.076	16.1	Long	Russet
ATTX07039-4Ru	TXRU	69.8	16.8	29.7	23.3	8.2	16.9	5.1	1.070	14.9	Oblong	Russet
COTX09150-1Ru	TXRU	68.7	29.2	24.6	14.9	0.0	29.4	1.9	1.076	16.0	Oblong	Russet
COTX09052-1Ru	TXRU	85.2	17.5	31.2	36.5	2.6	10.2	2.0	1.075	15.9	Long	Russet
COTX09101-1Ru	TXRU	61.2	7.3	19.8	34.2	20.8	6.7	11.2	1.072	15.3	Round	Russet
ATTX07039-2Ru	TXRU	63.3	8.1	15.7	39.5	16.3	4.2	16.2	1.061	13.4	Long	Russet
TX08351-5Ru	TXRU	71.6	17.0	25.7	28.9	10.4	14.2	3.8	1.064	13.9	Long	Russet
COTX08322-11Ru	TXRU	78.4	11.6	28.5	38.2	13.6	6.0	1.9	1.073	15.6	Long	Russet
AOTX95265-1Ru	TXRU	66.8	11.1	26.7	29.1	14.2	9.5	9.5	1.067	14.4	Long	Russet
TX08352-3Ru	TXRU	68.8	15.4	25.7	27.8	9.7	16.2	5.2	1.075	15.9	Oblong	Russet
COTX09053-1Ru	TXRU	70.6	6.9	21.6	42.1	17.1	6.1	6.2	1.074	15.7	Oblong	Russet
COTX08322-10Ru	TXRU	80.2	21.6	34.5	24.1	0.0	16.9	3.0	1.065	14.1	Long	Russet
COTX09097-3Ru	TXRU	66.4	12.1	20.3	34.0	5.9	7.3	20.3	1.062	13.5	Oblong	Russet
ATTX07039-6Ru	TXRU	47.9	9.1	12.0	26.8	26.9	6.4	18.8	1.069	14.8	Long	Russet
COTX05095-2Ru/Y	TXRU	73.2	23.8	29.3	20.1	0.0	20.9	5.9	1.071	15.2	Long	Russet
COTX08214-2Ru	TXRU	86.8	11.0	31.1	44.7	0.0	12.2	1.0	1.077	16.3	Long	Russet
ATX84378-6Ru	TXRU	75.4	14.4	24.3	36.6	10.2	10.4	4.0	1.070	15.0	Long	Russet
COTX08121-4Ru	TXRU	62.4	20.1	17.0	25.3	0.0	20.6	17.0	1.071	15.2	Oblong	Russet
TX08352-8Ru	TXRU	73.4	22.9	27.1	23.4	3.8	12.0	10.8	1.064	14.0	Oblong	Russet
AOTX98202-1Ru	TXRU	77.7	26.9	23.9	26.9	0.0	14.6	7.6	1.065	14.1	Oblong	Russet
TXNS410	TXRU	80.3	23.5	24.6	32.2	0.0	18.4	1.3	1.066	14.2	Long	Russet
COTX09182-5Ru	TXRU	56.2	10.7	17.9	27.6	18.0	9.9	15.9	1.074	15.6	Long	Russet
COTX09075-7Ru	TXRU	56.0	21.3	22.2	12.6	0.0	22.6	21.4	1.081	16.9	Long	Russet
TX08350-12Ru	TXRU	76.1	22.5	14.4	39.2	0.0	20.7	3.2	1.060	13.3	Oblong	Russet
COTX08322-5Ru	TXRU	64.2	13.1	30.7	20.5	0.0	11.9	23.9	1.074	15.8	Long	Russet
COTX09323-2Ru	TXRU	84.0	26.7	21.3	36.0	0.0	16.0	0.0	1.074	15.8	Long	Russet
Average		70.3	14.6	25.5	30.3	9.9	12.1	7.7	1.071	15.3		
L.S.D. (.05)		10.6	5.2	8.8	9.6	8.0	6.3	5.0	0.005	0.9		

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Table 10c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 35 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
COTX09042-2Ru	TXRU	7.1	6.7	100	1.8	4.7	3.3	4.7	37
COTX09022-3RuRE/Y	TXRU	7.4	5.9	100	2.0	4.8	4.0	4.8	18
COTX09052-2Ru	TXRU	7.3	5.5	100	1.6	4.6	3.3	4.6	43
Russet Norkotah	WR	5.5	7.1	100	1.8	4.8	2.1	4.8	66
AOTX07876-1Ru	TXRU	4.9	7.9	100	1.8	4.8	3.4	4.7	48
COTX08258-6Ru	TXRU	6.0	6.1	100	2.0	4.8	3.6	4.8	28
AOTX95265-3Ru	TXRU	5.6	6.5	100	1.7	4.5	3.2	4.5	52
TX08352-5Ru	TXRU	4.2	8.3	100	1.8	4.7	1.3	4.7	90
COTX09075-4Ru	TXRU	6.1	5.7	100	2.0	4.6	3.7	4.6	29
COTX09097-2Ru	TXRU	4.1	8.4	100	2.0	4.8	3.0	4.8	53
ATTX07023-2Ru	TXRU	6.3	5.3	100	1.9	4.8	2.1	4.8	66
ATTX07039-4Ru	TXRU	5.7	5.8	100	1.8	4.7	3.8	4.7	18
COTX09150-1Ru	TXRU	7.0	4.6	100	2.0	4.8	2.5	4.8	68
COTX09052-1Ru	TXRU	5.1	6.2	97	1.5	4.0	3.6	4.0	26
COTX09101-1Ru	TXRU	3.4	8.8	100	2.0	4.8	4.7	4.8	5
ATTX07039-2Ru	TXRU	3.3	9.2	97	1.8	3.8	1.5	3.9	85
TX08351-5Ru	TXRU	5.2	6.1	93	1.7	3.4	4.6	3.4	2
COTX08322-11Ru	TXRU	4.3	6.9	100	1.8	4.1	3.6	4.1	29
AOTX95265-1Ru	TXRU	4.0	7.2	100	1.6	4.0	2.8	4.1	54
TX08352-3Ru	TXRU	4.4	6.4	100	1.8	4.8	3.9	4.8	21
COTX09053-1Ru	TXRU	3.6	8.9	88	1.5	3.6	4.5	3.6	6
COTX08322-10Ru	TXRU	4.6	5.4	100	1.7	4.0	2.8	4.0	52
COTX09097-3Ru	TXRU	3.7	7.6	90	1.5	3.5	3.9	3.5	20
ATTX07039-6Ru	TXRU	2.9	8.3	100	1.7	4.5	3.8	4.5	18
COTX05095-2Ru/Y	TXRU	5.1	4.7	100	1.8	3.9	2.3	3.9	56
COTX08214-2Ru	TXRU	3.5	6.2	100	2.0	4.8	4.5	4.8	5
ATX84378-6Ru	TXRU	3.5	6.5	97	1.5	3.6	3.1	3.6	41
COTX08121-4Ru	TXRU	4.5	4.8	100	2.0	3.8	3.8	3.8	20
TX08352-8Ru	TXRU	3.7	5.9	97	1.5	3.6	1.5	3.7	93
AOTX98202-1Ru	TXRU	3.8	5.3	98	1.7	3.5	3.8	3.5	35
TXNS410	TXRU	4.4	5.3	86	1.6	3.4	3.1	3.5	41
COTX09182-5Ru	TXRU	2.8	7.2	97	2.0	3.4	3.9	3.5	18
COTX09075-7Ru	TXRU	3.9	4.8	100	1.8	3.8	3.5	3.8	33
TX08350-12Ru	TXRU	2.3	5.6	93	1.5	3.0	4.0	3.0	20
COTX08322-5Ru	TXRU	2.5	7.4	50	1.5	3.0	1.5	3.0	75
COTX09323-2Ru	TXRU	1.7	5.5	44	1.3	1.0	1.5	1.2	88
Average		5.1	6.8	99	1.8	4.4	3.2	4.4	40
L.S.D. (.05)		0.8	0.9	9	0.2	0.3	0.7	0.3	21

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

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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 35 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
COTX09042-2Ru	TXRU	2.7	4.0	4.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	15	0	0	0
COTX09022-3RuRE/Y	TXRU	2.9	3.5	4.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	15	0	3	0
COTX09052-2Ru	TXRU	1.0	4.0	4.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
AOTX07876-1Ru	TXRU	1.0	2.5	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	38	0	0	0
COTX08258-6Ru	TXRU	1.0	3.5	4.0	3.7	4.0	5.0	5.0	5.0	5.0	5.0	15	0	0	0
AOTX95265-3Ru	TXRU	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX08352-5Ru	TXRU	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	10	0	0	0
COTX09075-4Ru	TXRU	1.0	3.5	3.0	3.5	3.5	5.0	5.0	5.0	5.0	5.0	3	0	0	0
COTX09097-2Ru	TXRU	1.0	3.6	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
ATTX07023-2Ru	TXRU	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX07039-4Ru	TXRU	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	19	0	0	0
COTX09150-1Ru	TXRU	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	25	0	0	0
COTX09052-1Ru	TXRU	1.0	4.4	4.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	13	0	0	0
COTX09101-1Ru	TXRU	1.0	2.5	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX07039-2Ru	TXRU	1.0	4.5	4.0	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX08351-5Ru	TXRU	1.0	4.5	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
COTX08322-11Ru	TXRU	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX95265-1Ru	TXRU	1.0	4.0	4.5	3.0	4.5	5.0	5.0	5.0	5.0	5.0	18	0	0	0
TX08352-3Ru	TXRU	1.0	3.7	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	45	0	0	0
COTX09053-1Ru	TXRU	1.0	3.5	4.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	8	0	0	0
COTX08322-10Ru	TXRU	1.0	3.7	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09097-3Ru	TXRU	1.0	3.5	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	8	0	0	0
ATTX07039-6Ru	TXRU	1.0	4.0	3.5	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX05095-2Ru/Y	TXRU	3.0	4.0	3.0	3.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08214-2Ru	TXRU	1.0	4.0	4.0	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX84378-6Ru	TXRU	1.0	3.6	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	20	0	0	0
COTX08121-4Ru	TXRU	1.0	3.6	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	20	0	0	0
TX08352-8Ru	TXRU	1.0	3.5	3.5	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
AOTX98202-1Ru	TXRU	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	10	0	0	0
TXNS410	TXRU	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	13	0	0	0
COTX09182-5Ru	TXRU	1.0	4.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	15	0	0	0
COTX09075-7Ru	TXRU	1.0	3.5	3.8	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX08350-12Ru	TXRU	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08322-5Ru	TXRU	1.0	4.0	4.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09323-2Ru	TXRU	1.0	4.5	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.2	3.8	3.9	3.8	3.8	5.0	5.0	5.0	5.0	5.0	9	0	0	0
L.S.D. (.05)												17			

¹ 1=light to 5=dark
² 1=round to 5=long
³ 1=none to 5=heavy
⁴ 1=deep to 5=shallow
⁵ 1=light to 5=dark

⁶ 1 to 5=none
⁷ 1 to 5=none
⁸ 1 to 5=none
⁹ 1 to 5=none
¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

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Table 10e.

Notes and general rating for all reps of 35 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Notes Grading	General Rating Grading
COTX09042-2Ru	TXRU	, , yield+, parent, flat, keep , red eyes, keep, blocky, nice flesh, send to CA, high yield, TC?	3.6, 3.5, 3.5, 3.5
COTX09022-3RuRE/Y	TXRU		4.5, 4, 4, 4
COTX09052-2Ru	TXRU	, nice skin, sent to SW, long, ,	4, 3.8, 4, 3.8
Russet Norkotah	WR	some rough, oversized, pointed, too long, , ,	3.6, 3.8, 3.7, 3.8
AOTX07876-1Ru	TXRU	, , , too round, severe hollow heart, drop+++	3, 3, 3.2, 3.5
COTX08258-6Ru	TXRU	blocky, keep, send to CA, , ,	4, 4, 4, 4
AOTX95265-3Ru	TXRU	, send to CA, , rough, some pointed	4, 3.5, 3.8, 3.8
TX08352-5Ru	TXRU	, , no hollow heart, BOT, send to SW,	4.5, 4.5, 4.5, 4.5
COTX09075-4Ru	TXRU	, variable size, blocky, drop++++, ,	3.5, 4, 3.5, 3.7
COTX09097-2Ru	TXRU	some pointed, nice flesh, drop++++, , ,	3.6, 3.6, 3, 3
ATTX07023-2Ru	TXRU	too blocky, drop++++, , ,	3, 3, 3, 3
ATTX07039-4Ru	TXRU	drop++++, , , small, nice shape	3, 3, 3, 3
COTX09150-1Ru	TXRU	small, blocky, drop++++, , , , , TC?, send to SW, BOT+, nice shape, mixed, keep	3.2, 3.2, 3.2, 3.2
COTX09052-1Ru	TXRU	light russet	4.3, 4, 3.8, 4
COTX09101-1Ru	TXRU	, , rough, too round?, large, drop++++,	2.5, 2.5, 2.5, 2.5
ATTX07039-2Ru	TXRU	keep, large tubers, no hollow heart, , , keep, BOT-, , , send to SW, good shape, nice flesh, bad rep	3.8, 3.8, 3.6, 3.6
TX08351-5Ru	TXRU		4, 4, 4, 4
COTX08322-11Ru	TXRU	, , drop++++, poor skin large tubers, keep, dark skin color, some pointed, hollow	3, 3, 3, 3
AOTX95265-1Ru	TXRU	heart, bad rep, drop rep , some blocky, nice shape, severe hollow heart,	3.5, 4, 3.7, 2.5
TX08352-3Ru	TXRU	drop++++,	3, 3, 3, 3
COTX09053-1Ru	TXRU	, , blocky, light set, drop++++,	3, 3, 3, 3
COTX08322-10Ru	TXRU	, , , keep, send 1 row to Joe	3.2, 3.6, 3.8, 3.8
COTX09097-3Ru	TXRU	, block, growth cracks, drop++++, ,	2, 2.5, 2, 2
ATTX07039-6Ru	TXRU	, , , very large tubers, rough, drop++++	3, 3.2, 3, 3.5
COTX05095-2Ru/Y	TXRU	, , very nice flesh, BOT, keep,	3.7, 4, 4, 3.5
COTX08214-2Ru	TXRU	some greening, keep, , ,	4, 4, 4, 4
ATX84378-6Ru	TXRU	, , nice shape, keep, send to CA,	4, 3.8, 4, 4
COTX08121-4Ru	TXRU	pointed, drop?, , ,	3, 3, 3, 3
TX08352-8Ru	TXRU	, , blocky, smooth, keep, blocky, smooth, keep	3.7, 3.7, 3.6, 3.6
AOTX98202-1Ru	TXRU	, , some rough, drop++++,	3.3, 3, 3.5, 3.5
TXNS410	TXRU	, , light set, growth cracks, small, keep, rough, growth cracks, curved, drop++, rough, growth	3.8, 3.5, 4, 3
COTX09182-5Ru	TXRU	cracks, curved, drop++, ,	3.4, 3.4, 3, 3
COTX09075-7Ru	TXRU	, growth cracks, drop++++, ,	2.5, 2.5, 2.5, 2.5
TX08350-12Ru	TXRU	mixed light and dark skin, keep dark skin, , ,	4, 4, 4, 4
COTX08322-5Ru	TXRU	keep, , ,	3.8, 3.8, 3.8, 3.8
COTX09323-2Ru	TXRU	, low yield, drop++++, ,	2.2, 2.5, 2, 2

2012 Russet Selections Trial, Dalhart

The trial consisted of 168 entries of which 31 (AORTX06670-1Ru, AORTX06670-5Ru, AORTX09245-1Ru, COTX10007-1Ru, COTX10007-2Ru, COTX10010-1Ru, COTX10013-3Ru, COTX10080-2Ru, COTX10080-3Ru, COTX10080-5Ru, COTX10080-8Ru, COTX10084-7Ru, COTX10092-1Ru, COTX10092-5Ru, COTX10110-1Ru, COTX10111-1Ru, COTX10111-10Ru, COTX10111-2Ru, COTX10111-4Ru, COTX10111-8Ru, COTX10114-1Ru, COTX10115-1Ru, COTX10117-1Ru, COTX10141-11Ru, COTX10141-12Ru, COTX10141-13Ru, COTX10141-15Ru, COTX10156-5Ru, COTX10171-2Ru, COTX10179-2Ru, and COTX10231-1Ru) will be advanced in 2014 (Table 11).

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Table 11

Inventory weight and notes of 31 entries to be advanced from the
2012 Russet Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Notes	Inventory Weight
AORTX06670-1Ru	12SEL	Keep	23
AORTX06670-5Ru	12SEL	Keep	9
AORTX09245-1Ru	12SEL	Keep	19
COTX10007-1Ru	12SEL	Keep	10
COTX10007-2Ru	12SEL	Keep	36
COTX10010-1Ru	12SEL	Keep	6
COTX10013-3Rure	12SEL	Keep	15
COTX10080-2Ru	12SEL	Keep	14
COTX10080-3Ru	12SEL	Keep	13
COTX10080-5Ru	12SEL	Keep	17
COTX10080-8Ru	12SEL	Keep	18
COTX10084-7Ru	12SEL	Keep	16
COTX10092-1Ru	12SEL	Keep	12
COTX10092-5Ru	12SEL	Keep	14
COTX10110-1Ru	12SEL	Keep	9
COTX10111-1Ru	12SEL	Keep	19
COTX10111-10Ru	12SEL	Keep	3
COTX10111-2Ru	12SEL	Keep	13
COTX10111-4Ru	12SEL	Keep	13
COTX10111-8Ru	12SEL	Keep	21
COTX10114-1Ru	12SEL	Keep	24
COTX10115-1Ru	12SEL	Keep	9
COTX10117-1Ru	12SEL	Keep	8
COTX10141-11Ru	12SEL	Keep	7
COTX10141-12Ru	12SEL	Keep	15
COTX10141-13Ru	12SEL	Keep	14
COTX10141-15Ru	12SEL	Keep	30
COTX10156-5Ru	12SEL	Keep	13
COTX10171-2Ru	12SEL	Keep	17
COTX10179-2Ru	12SEL	Keep	21
COTX10231-1Ru	12SEL	Keep	12

Texas Advanced Red Selection Trial, Dalhart

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

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

- COTX07054-2R was the outstanding entry based on general rating and best of trial designation, while NDTX092231C-1R, NDTX050070-1R, TX08375-3R, NDTX081572B-1R, and TX08363-2R had high general ratings (Tables 12a, and 12e).
- Red LaSoda had the highest total yield, while TX08375-1R had the highest marketable yield (Table 12a).
- Red LaSoda had the highest yield of over 10 oz. tubers (Table 12a).
- NDTX092308-4R had the highest yield of <4 oz. tubers, while TX08363-2R had the highest yield of culls/No. 2 tubers (Table 12a).
- TX08375-1R had the highest percentage marketable yield (Table 12b).
- NDTX092231C-1R had the highest percentage of over 4-6 oz. tubers. (Table 12b).
- NDTX092308-4R had the highest percentage of <4 oz. tubers, while TX08363-2R had the highest percentage of culls/No. 2 tubers (Table 12b).
- NDTX092231C-1R had the highest specific gravity (Table 12b)
- All of the clones were late in maturity, except for TX08375-3R and NDTX081572B-1R which were earlier in maturity (Table 12c).
- NDTX092308-4R and NDTX092308-5R had high rating for feathering (Table 12d).

Comments on entries:

- | | | |
|------------------|------------|---|
| • Red LaSoda | Oblong Red | rough, deep eyes, oversized, yield++ |
| • TX08375-1R | Long Red | too long, pointed, nice flesh, poor shape, drop |
| • NDTX092308-4R | Round Red | small, heavy set, feathering, deep eyes |
| • NDTX092308-5R | Round Red | deep eyes, nice shape, color and flesh |
| • NDTX092231C-1R | Oblong Red | nice oblong shape, heavy set, smooth, good skin finish |
| • NDTX050070-1R | Round Red | small potato??, heavy set, good skin finish, nice shape |
| • TX08375-3R | Round Red | heavy set, nice shape+, light skin, good skin finish, small |
| • NDTX081572B-1R | Round Red | heavy set, small potato??, nice white flesh |

- TX08363-2R Oblong Red nice shape and color, large tubers
- COTX07054-2R Round Red nice shape, light skin, BOT

Summary:

NDTX092231C-1R, NDTX050070-1R, TX08375-3R, NDTX081572B-1R, and TX08363-2R were the outstanding entries for this trial based on all factors.

Dalhart
Table 12a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 9 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
Red LaSoda	WR	767.3	514.2	104.5	209.3	200.4	111.2	123.0	18.9	3.6
TX08375-1R	TXRD	636.6	528.5	173.4	236.7	118.4	6.6	98.1	3.3	2.5
NDTX092308-4R	TXRD	622.3	346.0	239.8	106.2	0.0	0.0	276.3	0.0	3.5
NDTX092308-5R	TXRD	558.4	355.1	256.0	91.7	7.5	0.0	203.3	0.0	3.5
NDTX092231C-1R	TXRD	541.6	372.3	265.7	101.4	5.2	0.0	159.9	9.3	4.0
NDTX050070-1R	TXRD	537.9	331.1	202.2	113.9	14.9	7.1	196.8	2.9	4.0
TX08375-3R	TXRD	535.8	300.1	244.6	46.7	8.9	0.0	232.9	2.7	4.0
NDTX081572B-1R	TXRD	530.4	326.7	208.9	90.2	27.6	0.0	200.8	2.9	3.9
TX08363-2R	TXRD	530.2	430.6	117.8	132.8	180.0	0.0	55.6	44.0	4.0
COTX07054-2R	TXRD	391.4	271.5	161.8	88.2	21.6	0.0	115.7	4.1	3.9
Average		565.2	377.6	197.5	121.7	58.5	12.5	166.3	8.8	3.7
L.S.D. (.05)		35.5	50.6	44.0	33.1	28.1	21.0	38.9	11.4	0.1

¹ 1=very poor to 5= excellent

Dalhart
Table 12b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 9 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Red LaSoda	WR	67.0	13.6	27.3	26.2	14.5	16.0	2.4	1.064	13.9	Oblong	Red
TX08375-1R	TXRD	83.0	27.3	37.2	18.6	1.1	15.4	0.5	1.065	14.1	Long	Red
NDTX092308-4R	TXRD	55.6	38.5	17.1	0.0	0.0	44.4	0.0	1.060	13.2	Round	Red
NDTX092308-5R	TXRD	63.1	45.5	16.5	1.2	0.0	36.9	0.0	1.063	13.7	Round	Red
NDTX092231C-1R	TXRD	68.7	49.1	18.7	1.0	0.0	29.6	1.7	1.066	14.3	Oblong	Red
NDTX050070-1R	TXRD	60.9	37.3	20.8	2.8	1.2	37.4	0.5	1.063	13.8	Round	Red
TX08375-3R	TXRD	55.8	45.7	8.6	1.6	0.0	43.7	0.5	1.056	12.6	Round	Red
NDTX081572B-1R	TXRD	61.8	39.8	16.8	5.3	0.0	37.6	0.6	1.060	13.2	Round	Red
TX08363-2R	TXRD	81.2	22.2	25.0	34.0	0.0	10.5	8.3	1.050	11.5	Oblong	Red
COTX07054-2R	TXRD	69.4	40.8	22.9	5.7	0.0	29.5	1.1	1.072	15.3	Round	Red
Average		66.7	36.0	21.1	9.6	1.7	30.1	1.6	1.062	13.6		
L.S.D. (.05)		7.1	7.1	5.6	4.4	2.8	7.7	1.6	0.002	0.3		

Dalhart
Table 12c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 9 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
Red LaSoda	WR	7.2	6.9	100	2.0	4.8	4.5	4.8	3
TX08375-1R	TXRD	8.1	5.1	100	1.8	4.8	4.4	4.7	5
NDTX092308-4R	TXRD	12.7	3.1	100	2.0	4.5	4.8	4.5	0
NDTX092308-5R	TXRD	10.4	3.5	100	1.8	4.4	4.5	4.5	5
NDTX092231C-1R	TXRD	9.6	3.6	100	1.8	4.5	4.1	4.6	13
NDTX050070-1R	TXRD	9.6	3.6	100	1.8	4.4	4.1	4.5	13
TX08375-3R	TXRD	12.1	2.9	100	2.0	4.5	2.5	4.5	60
NDTX081572B-1R	TXRD	10.2	3.3	100	1.8	4.5	3.8	4.6	21
TX08363-2R	TXRD	6.2	5.5	100	2.0	4.2	4.8	4.4	0
COTX07054-2R	TXRD	7.4	3.4	100	1.9	4.1	4.1	4.2	10
Average		9.4	4.1	100	1.9	4.5	4.2	4.5	13
L.S.D. (.05)		1.0	0.3		ns	0.3	0.5	ns	13

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart
Table 12d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 9 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
Red LaSoda	WR	1.0	3.5	1.0	2.0	3.5	5.0	5.0	5.0	5.0	3.5	0	0	0	0
TX08375-1R	TXRD	1.0	4.0	1.0	2.0	4.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
NDTX092308-4R	TXRD	1.0	2.0	1.0	2.0	4.0	5.0	5.0	5.0	5.0	3.0	0	0	0	0
NDTX092308-5R	TXRD	1.0	2.0	1.0	2.0	4.0	5.0	5.0	5.0	5.0	3.0	0	0	0	0
NDTX092231C-1R	TXRD	1.0	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	3.9	0	0	0	0
NDTX050070-1R	TXRD	1.0	2.0	1.0	4.0	4.2	5.0	5.0	5.0	5.0	4.0	0	0	0	0
TX08375-3R	TXRD	1.0	2.0	1.0	4.0	3.6	5.0	5.0	5.0	5.0	3.9	0	0	0	0
NDTX081572B-1R	TXRD	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.2	0	0	0	0
TX08363-2R	TXRD	1.0	3.5	1.0	2.0	4.2	5.0	5.0	5.0	5.0	3.5	0	0	0	0
COTX07054-2R	TXRD	1.0	2.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	4.0	0	0	0	0
Average		1.0	2.6	1.0	3.0	3.9	5.0	5.0	5.0	5.0	3.7	0	0	0	0
L.S.D. (.05)															

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Dalhart
Table 12e.

Notes and general rating for all reps of 9 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Notes Grading	General Rating Grading
Red LaSoda	WR	rough, deep eyes, oversized, yield++, , ,	3.8, 3.6, 3.6, 3.5
TX08375-1R	TXRD	, too long, pointed, nice flesh, drop, , poor shape	2.5, 2.5, 2.5, 2.5
NDTX092308-4R	TXRD	small, heavy set, feathering, deep eyes, , ,	3.5, 3.5, 3.5, 3.5
NDTX092308-5R	TXRD	, , deep eyes, nice shape, color and flesh, , , nice oblong shape, heavy set, smooth, good skin	3.5, 3.5, 3.5, 3.5
NDTX092231C-1R	TXRD	finish	4, 4, 4, 4
NDTX050070-1R	TXRD	small potato??, heavy set, , , good skin finish, nice shape, small	4, 4, 4, 3.8
TX08375-3R	TXRD	, heavy set, nice shape+, light skin, good skin finish, small,	4, 3.8, 4, 4
NDTX081572B-1R	TXRD	small, heavy set, small potato??, , nice white flesh,	3.8, 4, 3.8, 4
TX08363-2R	TXRD	nice shape and color, large tubers, , ,	4, 4, 4, 4
COTX07054-2R	TXRD	nice shape, light skin, BOT, , ,	3.6, 4.2, 4, 3.8

2012 Red Selections Trial, Dalhart

The trial consisted of 24 entries of which four (NDTX113254-1R, TX10437-10P, TX11448-2R, and TX11448-3R) will be advanced in 2014 (Table 13).

Dalhart
Table 13

Inventory weight of 6 entries to be Advanced
from the 2012 Red Selection Trial grown near
Dalhart, Texas-2013.

Variety or Selection	Trial	Notes	Inventory Weight
NDTX113254-1R	12SEL	Keep	16
TX10437-10P	12SEL	Keep	23
TX11448-2R	12SEL	Keep	19
TX11448-3R	12SEL	Keep	16

Texas Advanced Red/Yellow Selection Trial, Dalhart

This trial consisted of three entries.

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

- TX09420-1R/Y and TX09420-3R/Y had the highest general ratings (Table 14a).
- ATTX98510-1R/Y had the highest total and marketable yield (Table 14a)
- TX09420-1R/Y had the highest yield of over 4-6 oz. tubers, while TX09420-3R/Y had the highest yield of <4 oz. tubers (Table 14a).
- ATTX98510-1R/Y had the highest percentage of marketable yield (Table 14b).
- TX09420-1R/Y had the highest percentage over 4-6 oz. tubers (Table 14b).
- TX09420-3R/Y had the highest percentage of <4 oz. tubers (Table 14b).
- TX09420-3R/Y had the highest specific gravity (Table 14b).
- All the entries were late in maturity (Table 14c).
- TX09420-1R/Y and TX09420-3R/Y had the darkest yellow flesh color (Table 14d).

Comments on entries:

- ATTX98510-1R/Y Oblong Red small, very light flesh, and skin, FC=2¹
- TX09420-1R/Y Round Red uniform shape, dark skin color, nice shape and skin, some purple streaking, FC=3
- TX09420-3R/Y Round Red dark skin color, nice uniform shape, nice skin, faint purple ring, FC=3

¹FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

TX09420-1R/Y and TX09420-3R/Y were the outstanding entries for this trial based on all factors.

Dalhart
Table 14a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 3 entries in the Texas Advanced Red/Yellow Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
ATTX98510-1R/Y	TXR/Y	545.7	345.0	217.4	97.9	29.7	0.0	199.1	1.7	3.3
TX09420-1R/Y	TXR/Y	502.6	318.2	246.2	72.0	0.0	0.0	184.4	0.0	3.8
TX09420-3R/Y	TXR/Y	498.7	291.2	205.6	79.7	6.0	0.0	207.4	0.0	3.9
Average		515.7	318.1	223.1	83.2	11.9	0.0	197.0	0.6	3.7
L.S.D. (.05)		ns	ns	ns	ns	11.2		ns	ns	0.1

¹ 1=very poor to 5= excellent

Dalhart
Table 14b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 3 entries in the Texas Advanced Red/Yellow Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
ATTX98510-1R/Y	TXR/Y	63.1	39.8	17.8	5.5	0.0	36.6	0.3	1.059	13.1	Oblong	Red
TX09420-1R/Y	TXR/Y	63.0	48.9	14.1	0.0	0.0	37.0	0.0	1.070	14.9	Round	Red
TX09420-3R/Y	TXR/Y	57.7	41.2	15.5	1.1	0.0	42.3	0.0	1.072	15.3	Round	Red
Average		61.3	43.3	15.8	2.2	0.0	38.6	0.1	1.067	14.5		
L.S.D. (.05)		ns	4.5	ns	2.0		ns	ns	0.004	0.7		

Dalhart
Table 14c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 3 entries in the Texas Advanced Red/Yellow Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
ATTX98510-1R/Y	TXR/Y	10.8	3.2	100	1.6	4.7	4.8	4.7	3
TX09420-1R/Y	TXR/Y	10.2	3.2	100	1.9	4.8	4.8	4.8	0
TX09420-3R/Y	TXR/Y	10.0	3.2	100	1.8	4.6	4.8	4.5	0
Average		10.3	3.2	100	1.8	4.7	4.8	4.7	1
L.S.D. (.05)		0.6	ns		ns	ns	ns	ns	ns

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart
Table 14d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 3 entries in the Texas Advanced Red/Yellow Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
ATTX98510-1R/Y	TXR/Y	2.0	3.5	1.0	4.0	3.3	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09420-1R/Y	TXR/Y	3.0	2.5	1.0	4.0	4.2	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09420-3R/Y	TXR/Y	3.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.7	2.7	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Dalhart
 Table 14e. Notes and general rating for all reps of 3 entries in the Texas Advanced Red/Yellow Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Notes Grading	General Rating Grading
ATTX98510-1R/Y	TXR/Y	, , small, very light flesh, and skin, uniform shape, dark skin color, , nice shape and skin,	3.3, 3.3, 3.3, 3.3
TX09420-1R/Y	TXR/Y	some purple streaking , dark skin color, , nice uniform shape, nice skin, faint	3.8, 3.8, 3.8, 3.8
TX09420-3R/Y	TXR/Y	purple ring	3.9, 3.9, 3.9, 3.9

2012 Red/Yellow Selections Trial, Dalhart

The trial consisted of 22 entries of which 8 (COTX10118-7P, COTX10138-14P/Y, COTX10138-17P/Y, COTX10138-18P/Y, COTX10138-19P/Y, TX11458-1R/Y, TX11458-2R/Y, and TX11458-3R/Y) will be advanced in 2014 (Table 15).

Dalhart
Table 15

Inventory weight of 8 entries to be advanced from the 2012
Red Skin Yellow Flesh Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Notes	Inventory Weight
COTX10118-7P	12SEL	Keep	6
COTX10138-14P/Y	12SEL	Keep	10
COTX10138-17P/Y	12SEL	Keep	15
COTX10138-18P/Y	12SEL	Keep	11
COTX10138-19P/Y	12SEL	Keep	18
TX11458-1R/Y	12SEL	Keep	5
TX11458-2R/Y	12SEL	Keep	6
TX11458-3R/Y	12SEL	Keep	7

Texas Advanced White/Yellow Selection Trial, Dalhart

This trial consisted of six entries, including Yukon Gold as a check variety.

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

- Yukon Gold, TX08385-1Y/Y, and NDTX059759-3Pinto/Y were the outstanding entries for this trial based on general ratings (Tables 16a).
- ATTX07230-1Y/RE/Y had the highest total and marketable yield (Table 16a).
- Yukon Gold had the highest yield of over 10 oz. tubers. TX08385-1Y/Y had the highest yield of 4-6 oz. tubers, while ATTX07230-1Y/RE/Y had the highest yield of <4 oz. tubers. Yukon Gold had the highest yield of culls/No. 2 tubers (Table 16a).
- Yukon Gold had the highest percentage of marketable yield (Table 16b).
- Yukon Gold had the highest percent yield of over 10 oz. tubers. ATTX07230-1Y/RE/Y, COTX07382-1W/Y, and COTX07382-2W/Y had the highest percentage of <4 oz. tubers. Yukon Gold had the highest percentage of culls/No. 2 tubers (Table 16b).
- Yukon Gold, COTX07382-1W/Y, and COTX07382-2W/Y had the highest specific gravity (Table 16b).
- ATTX07230-1Y/RE/Y and NDTX059759-3Pinto/Y were the latest maturing entries, while TX08385-1Y/Y and COTX07382-2W/Y were the earliest maturing entries (Table 16c).
- NDTX059759-3Pinto/Y had the darkest yellow flesh (Table 16d).

Comments on entries:

- ATTX07230-1Y/RE/Y Round White heavy set++, red splash, nice shape, light flesh, yield+, very light flesh, FC=2
- TX08385-1Y/Y Oblong White better flesh, keep, nice shape, very light flesh, FC=3
- Yukon Gold Oblong White nice flesh, large, oversized, nice shape, no hollow heart, FC=2
- COTX07382-1W/Y Oblong White too oblong, very light flesh, smooth, small, drop FC=2
- COTX07382-2W/Y Oblong White too oblong, very light flesh, drop, FC=1
- NDTX059759-3Pinto/Y Oblong Pinto nice red color and flesh, some feathering, flat, oval, some scab, FC=3

¹FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

Yukon Gold, TX08385-1Y/Y, and NDTX059759-3Pinto/Y were the outstanding entries for this trial based on all factors.

Dalhart
Table 16a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 6 entries in the Texas Advanced White/Yellow Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
ATTX07230-1Y/RE/Y	TXW/Y	917.2	619.6	306.2	232.3	81.1	0.0	294.5	3.1	3.5
TX08385-1Y/Y	TXW/Y	762.1	506.3	310.5	164.1	31.7	0.0	237.3	18.5	3.7
Yukon Gold	WR	710.4	553.2	74.9	259.1	219.3	65.5	60.4	31.3	4.0
COTX07382-1W/Y	TXW/Y	505.9	319.4	181.5	97.1	40.9	0.0	170.3	16.2	3.3
COTX07382-2W/Y	TXW/Y	458.8	293.9	151.8	116.2	25.9	0.0	153.5	11.4	3.4
NDTX059759-3Pinto/Y	TXW/Y	285.2	207.4	131.7	62.2	13.5	0.0	73.2	4.6	4.2
Average		606.6	416.7	192.8	155.2	68.7	10.9	164.9	14.2	3.7
L.S.D. (.05)		61.2	54.7	43.9	39.1	22.9	23.4	33.9	ns	0.2

¹ 1=very poor to 5= excellent

Dalhart
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 6 entries in the Texas Advanced White/Yellow Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
ATTX07230-1Y/RE/Y	TXW/Y	67.3	33.3	25.4	8.7	0.0	32.3	0.4	1.047	10.9	Round	White
TX08385-1Y/Y	TXW/Y	66.4	40.8	21.4	4.2	0.0	31.3	2.3	1.064	13.9	Oblong	White
Yukon Gold	WR	77.9	10.5	36.4	30.9	9.4	8.4	4.3	1.074	15.7	Oblong	White
COTX07382-1W/Y	TXW/Y	63.2	36.3	18.9	8.0	0.0	33.7	3.1	1.076	16.0	Oblong	White
COTX07382-2W/Y	TXW/Y	64.1	33.2	25.3	5.6	0.0	33.4	2.5	1.076	16.1	Oblong	White
NDTX059759-3Pinto/Y	TXW/Y	73.3	46.3	22.4	4.6	0.0	25.1	1.6	1.069	14.8	Oblong	Pinto
Average		68.7	33.4	25.0	10.3	1.6	27.4	2.4	1.068	14.6		
L.S.D. (.05)		5.2	6.7	7.2	4.0	3.6	6.1	ns	0.001	3.0		

Dalhart
Table 16c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 6 entries in the Texas Advanced White/Yellow Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
ATTX07230-1Y/RE/Y	TXW/Y	14.3	4.1	100	1.8	4.6	4.2	4.7	6
TX08385-1Y/Y	TXW/Y	12.8	3.8	100	1.5	4.1	2.8	4.5	42
Yukon Gold	WR	5.9	7.7	100	1.2	4.7	3.5	4.6	15
COTX07382-1W/Y	TXW/Y	7.2	4.5	100	1.6	4.4	3.6	4.1	25
COTX07382-2W/Y	TXW/Y	6.7	4.4	100	1.5	3.7	2.3	3.9	70
NDTX059759-3Pinto/Y	TXW/Y	4.1	4.5	100	1.6	4.0	4.7	3.8	0
Average		8.5	4.8	100	1.5	4.2	3.5	4.3	26
L.S.D. (.05)		1.0	0.4		0.3	0.6	0.6	0.4	14

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart
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 6 entries in the Texas Advanced White/Yellow Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
ATTX07230-1Y/RE/Y	TXW/Y	2.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX08385-1Y/Y	TXW/Y	2.5	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Yukon Gold	WR	2.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX07382-1W/Y	TXW/Y	1.5	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX07382-2W/Y	TXW/Y	1.3	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059759-3Pinto/Y	TXW/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
Average		2.1	3.3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Dalhart
Table 16e.

Notes and general rating for all reps of 6 entries in the Texas Advanced White/Yellow Selection
Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Notes Grading	General Rating Grading
ATX07230-1Y/RE/Y	TXW/Y	heavy set++, red splash, nice shape, light flesh, yield+, very light flesh,	3.5, 3.7, 3.3, 3.6
TX08385-1Y/Y	TXW/Y	, , better flesh, keep, nice shape, very light flesh	4, 3.8, 3.5, 3.6
Yukon Gold	WR	nice flesh, large, oversized, nice shape, , no hollow heart	4.2, 4, 3.8, 3.9
COTX07382-1W/Y	TXW/Y	too oblong, very light flesh, smooth, drop, , small,	3.4, 3.2, 3.3, 3.2
COTX07382-2W/Y	TXW/Y	too oblong, very light flesh, drop, , , nice red color and flesh, some feathering, flat, oval,	3.6, 3.2, 3.3, 3.4
NDTX059759-3Pinto/Y	TXW/Y	some scab,	4.4, 4, 4.1, 4.2

2012 White/Yellow Selections Trial, Dalhart

The trial consisted of 25 entries of which 4 (COTX10097-2W/Y, COTX10138-16W/Pinto, COTX10138-8W/Pinto, and WTX10638-2W/Y) will be advanced in 2014 (Table 17).

Dalhart
Table 17

Inventory weight of 4 entries to be advanced from the 2012
White Skin Yellow Flesh Selection Trial grown near
Dalhart, Texas-2013.

Variety or Selection	Trial	Notes	Inventory Weight
COTX10097-2W/Y	12SEL	Keep	21
COTX10138-16W/Ypinto	12SEL	Keep	18
COTX10138-8W/Ypinto	12SEL	Keep	17
WTX10638-2W/Y	12SEL	Keep	14

Texas Advanced Small Potato Selection Trial, Dalhart

This trial consisted of twenty-one entries.

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

- ATX06264-4R/Y was the outstanding entry based on general rating and a best of trial notation, while NDTX092238C-1P/W, ATX05202-3W/Y, ATX06254-2R, NDTX092238C-4P/W, ATX05186-1R, NDTX092238C-3P/W, ATTX06246-1R, TX09406-1P/P, NDTX071258B-1R, COTX04050-1P/P, ATTX98444-16R/Y, and COTX04193-2R/Y were the outstanding entries based on general ratings (Tables 18a and 18e).
- NDTX081451CB-1Y/Y had the highest total and marketable yield. ATX05202-3W/Y had the highest yield of over 2 inch tubers, while COTX08078-1Ru had the highest yield of culls/No.2 tubers (Table 18a)
- TX09406-1P/P had the highest percentage of marketable tubers. ATTX98462-3R/Y had the highest percentage of over 3 inch tubers (Table 18b).
- NDTX081451CB-1Y/Y, NDTX092238C-1P/W, ATX06254-2R, NDTX092238C-4P/W, and NDTX092238C-3P/W had the highest average number of tubers per plant (Table 18c).
- All of the entries were late in maturity, except for NDTX071258B-1R and COTX04193-2R/Y which were the earliest maturing entries (Table 18c).
- NDTX081451CB-1Y/Y, ATX06264-4R/Y, ATTX98444-16R/Y, and COTX04193-2R/Y had the darkest yellow flesh. TX09406-1P/P and COTX04050-1P/P had very dark purple flesh (Table 18d).

Comments on entries:

- NDTX081451CB-1Y/Y Oblong White no CA, move to a size trial, nice flesh, large tubers, move to wh/yellow trial, keep
- NDTX092238C-1P/W Round Purple better shape, send to CA, yield+
- ATX05202-3W/Y Round White large tubers, keep, no CA, keep in small trial and move to wh/yellow trial
- ATX06254-2R Round Red no CA, keep
- NDTX092238C-4P/W Round Purple better skin, send to CA, heavy set, skin finish??. yield+
- ATX05186-1R Round Red no CA, nice shape, move to red/wh trial, keep

- NDTX059886-1Y/Y Oblong White high set, no CA
- ATX07305-1Y/Y Round White no CA, nice shape and skin, keep
- NDTX092238C-3P/W Round Purple better skin, send to CA, heavy set, skin finish??. yield+
- ATTX06246-1R Oblong Red nice shape, skin set?, send to CA
- ATX06264-4R/Y Round Red send to CA, keep in small trial and move to red/yel trial, yield+, BOT
- ATTX98462-3R/Y Oblong Red no CA, large tubers, move to red/yellow trial, keep
- TX09406-1P/P Round Purple send to CA, very dark flesh, nice skin
- NDTX071258B-1R Round Red send to CA, nice flesh and skin color
- COTX04050-1P/P Oblong Purple no CA, keep
- ATTX98444-16R/Y Oblong Red nice flesh, send to CA
- ATTX05186-3W/Y Round White light set, nice size, no CA, nice shape send to Simplot, keep
- COTX04193-2R/Y Round Red uniform size and shape, send to CA, nice size distribution
- COTX09040-1P/Y Oblong Purple poor skin and shape, no CA, road map, poor skin finish, drop
- NDTX050184-1R/Y Round Red light set, no CA, move to red/yellow trial
- TX09423-2R/Y Round Red yell/pink flesh, low yield, nice skin color, drop

Summary:

ATX06264-4R/Y was the outstanding entry based on all factors, while NDTX092238C-1P/W, ATX05202-3W/Y, ATX06254-2R, NDTX092238C-4P/W, ATX05186-1R, NDTX092238C-3P/W, ATTX06246-1R, TX09406-1P/P, NDTX071258B-1R, COTX04050-1P/P, ATTX98444-16R/Y, and COTX04193-2R/Y were the outstanding entries based on general ratings. COTX04193-2R/Y, NDTX081451CB-1Y/Y, and ATX06264-4R/Y will be sent to California for further evaluation.

Dalhart
Table 18a.

Total yield, total yield of U.S. No.1, under 1 inch and culls/No.2 potatoes and general rating of 21 entries in the Texas Advanced Small Potato Selection Trial, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Culls/ No.2	General Rating ¹ Grading	
			Total Yield	1-2 inch	2-3 inch	Over 3 inch			Under 1 inch
NDTX081451CB-1Y/Y	TXSM	709.6	607.6	161.4	446.2	101.0	1.0	0.0	3.8
NDTX092238C-1P/W	TXSM	542.4	527.7	249.1	278.6	0.0	14.7	0.0	4.0
ATX05202-3W/Y	TXSM	541.2	524.0	106.4	417.6	17.0	0.2	0.0	4.0
ATX06254-2R	TXSM	532.9	510.3	262.4	247.9	0.0	22.6	0.0	4.0
NDTX092238C-4P/W	TXSM	493.7	472.1	283.8	188.3	0.0	21.6	0.0	3.9
ATX05186-1R	TXSM	482.5	477.7	202.7	275.1	0.0	4.8	0.0	4.0
NDTX059886-1Y/Y	TXSM	476.0	453.6	139.4	314.3	21.6	0.8	0.0	3.7
ATX07305-1Y/Y	TXSM	467.5	442.9	191.0	251.8	4.8	19.9	0.0	3.6
NDTX092238C-3P/W	TXSM	464.2	457.2	230.7	226.5	0.0	7.1	0.0	4.0
ATX06246-1R	TXSM	449.7	417.3	63.9	353.5	24.1	8.3	0.0	4.0
ATX06264-4R/Y	TXSM	447.6	441.8	159.7	282.1	5.8	0.0	0.0	4.5
ATX98462-3R/Y	TXSM	443.9	274.6	26.8	247.9	169.1	0.2	0.0	3.9
TX09406-1P/P	TXSM	412.8	412.6	218.4	194.2	0.0	0.2	0.0	4.0
NDTX071258B-1R	TXSM	332.1	310.7	159.7	151.0	0.0	21.4	0.0	4.5
COTX04050-1P/P	TXSM	329.4	312.8	118.9	193.9	2.3	14.3	0.0	4.0
ATX98444-16R/Y	TXSM	327.7	323.2	200.4	122.8	0.0	4.6	0.0	4.5
ATX05186-3W/Y	TXSM	250.6	243.1	98.1	145.0	0.0	7.5	0.0	3.5
COTX04193-2R/Y	TXSM	247.7	245.6	127.4	118.2	0.0	2.1	0.0	4.6
COTX09040-1P/Y	TXSM	221.1	217.2	176.5	40.7	0.0	3.9	0.0	2.9
NDTX050184-1R/Y	TXSM	171.3	171.3	26.8	144.6	0.0	0.0	0.0	3.5
TX09423-2R/Y	TXSM	100.6	93.3	74.7	18.7	0.0	7.3	0.0	3.0
Average		402.1	377.9	156.1	221.8	16.5	7.7	0.0	3.9
L.S.D. (.05)		50.4	58.3	68.6	83.2	38.8	ns		0.2

¹ 1=very poor to 5= excellent

Dalhart
Table 18b.

Percent by weight of U.S. No. 1, under 1 inch and culls/No.2 potatoes, tuber type and skin type of 21 entries in the Texas Advanced Small Potato Selection Trial, Texas-2013.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1			Percent By Weight			Tuber Type	Skin Type
		Total Yield	1-2 inch	2-3 inch	Over 18 oz.	Under 4 oz.	Culls/ No. 2		
NDTX081451CB-1Y/Y	TXSM	86.1	23.2	63.0	13.7	0.1	0.0	Oblong	White
NDTX092238C-1P/W	TXSM	97.6	44.8	52.8	0.0	2.4	0.0	Round	Purple
ATX05202-3W/Y	TXSM	97.0	20.2	76.8	3.0	0.0	0.0	Round	White
ATX06254-2R	TXSM	95.4	48.7	46.6	0.0	4.6	0.0	Round	Red
NDTX092238C-4P/W	TXSM	95.6	57.5	38.2	0.0	4.4	0.0	Round	Purple
ATX05186-1R	TXSM	99.1	42.3	56.8	0.0	0.9	0.0	Round	Red
NDTX059886-1Y/Y	TXSM	95.5	28.8	66.7	4.3	0.2	0.0	Oblong	White
ATX07305-1Y/Y	TXSM	95.4	40.5	54.9	0.9	3.7	0.0	Round	White
NDTX092238C-3P/W	TXSM	98.4	49.6	48.8	0.0	1.6	0.0	Round	Purple
ATX06246-1R	TXSM	92.8	14.2	78.6	5.4	1.8	0.0	Oblong	Red
ATX06264-4R/Y	TXSM	98.9	34.7	64.2	1.1	0.0	0.0	Round	Red
ATX098462-3R/Y	TXSM	61.9	6.2	55.7	38.1	0.1	0.0	Oblong	Red
TX09406-1P/P	TXSM	100.0	53.3	46.7	0.0	0.0	0.0	Round	Purple
NDTX071258B-1R	TXSM	93.5	49.7	43.8	0.0	6.5	0.0	Round	Red
COTX04050-1P/P	TXSM	95.4	36.0	59.4	0.6	3.9	0.0	Oblong	Purple
ATX098444-16R/Y	TXSM	98.6	61.1	37.5	0.0	1.4	0.0	Oblong	Red
ATX05186-3W/Y	TXSM	97.0	38.1	58.9	0.0	3.0	0.0	Round	White
COTX04193-2R/Y	TXSM	99.2	51.3	47.8	0.0	0.8	0.0	Round	Red
COTX09040-1P/Y	TXSM	98.4	81.1	17.3	0.0	1.6	0.0	Oblong	Purple
NDTX050184-1R/Y	TXSM	100.0	17.1	82.9	0.0	0.0	0.0	Round	Red
TX09423-2R/Y	TXSM	93.2	78.4	14.8	0.0	6.8	0.0	Round	Red
Average		94.7	41.7	53.0	3.2	2.1	0.0		
L.S.D. (.05)		7.6	17.3	18.8	5.7	ns			

Dalhart
Table 18c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 21 entries in the Texas Advanced Small Potato Selection Trial, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
NDTX081451CB-1Y/Y	TXSM	12.3	3.8	100	1.6	4.7	4.7	4.7	0
NDTX092238C-1P/W	TXSM	12.5	2.8	100	1.5	4.7	4.6	4.6	0
ATX05202-3W/Y	TXSM	9.3	3.8	100	1.8	4.6	4.2	4.7	0
ATX06254-2R	TXSM	12.6	2.7	100	1.9	4.7	4.5	4.7	0
NDTX092238C-4P/W	TXSM	12.3	2.6	100	1.5	4.8	4.8	4.8	0
ATX05186-1R	TXSM	11.0	2.8	100	1.8	4.6	4.4	4.5	0
NDTX059886-1Y/Y	TXSM	11.0	2.9	100	1.6	4.1	4.6	4.3	0
ATX07305-1Y/Y	TXSM	10.4	2.9	100	1.6	4.8	4.4	4.8	0
NDTX092238C-3P/W	TXSM	12.2	2.5	100	1.5	4.8	4.7	4.8	0
ATX06246-1R	TXSM	8.6	3.4	100	2.0	4.6	3.8	4.6	0
ATX06264-4R/Y	TXSM	8.9	3.3	100	1.8	4.6	3.7	4.6	13
ATX098462-3R/Y	TXSM	4.9	5.8	100	1.5	4.1	3.8	4.1	16
TX09406-1P/P	TXSM	11.3	2.4	100	1.8	4.5	4.1	4.5	5
NDTX071258B-1R	TXSM	9.2	2.4	100	2.0	3.8	3.0	3.7	33
COTX04050-1P/P	TXSM	7.7	2.7	100	1.5	4.2	4.0	4.3	4
ATX098444-16R/Y	TXSM	9.8	2.2	100	1.5	4.5	3.4	4.5	14
ATX05186-3W/Y	TXSM	7.1	2.3	100	1.5	4.7	4.8	4.7	0
COTX04193-2R/Y	TXSM	6.3	2.5	100	1.8	4.3	2.3	4.3	68
COTX09040-1P/Y	TXSM	8.2	1.7	100	1.5	4.6	4.5	4.6	0
NDTX050184-1R/Y	TXSM	6.4	3.6	74	1.9	2.0	4.4	3.1	0
TX09423-2R/Y	TXSM	4.2	1.5	100	1.5	4.8	4.8	4.7	0
Average		9.3	2.9	99	1.7	4.4	4.2	4.4	7
L.S.D. (.05)		2.7	0.5	ns	0.2	0.5	0.3	0.4	7

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart
Table 18d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 21 entries in the Texas Advanced Small Potato Selection Trial, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
NDTX081451CB-1Y/Y	TXSM	3.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX092238C-1P/W	TXSM	1.0	1.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05202-3W/Y	TXSM	2.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX06254-2R	TXSM	1.0	1.5	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX092238C-4P/W	TXSM	1.0	1.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05186-1R	TXSM	1.0	1.5	4.0	4.0	35.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059886-1Y/Y	TXSM	2.5	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX07305-1Y/Y	TXSM	2.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX092238C-3P/W	TXSM	1.0	1.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX06246-1R	TXSM	1.0	3.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX06264-4R/Y	TXSM	3.0	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98462-3R/Y	TXSM	2.0	3.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09406-1P/P	TXSM	5.0	1.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX071258B-1R	TXSM	1.0	1.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04050-1P/P	TXSM	5.0	3.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98444-16R/Y	TXSM	3.0	3.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX05186-3W/Y	TXSM	2.0	2.0	4.0	1.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04193-2R/Y	TXSM	3.0	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09040-1P/Y	TXSM	2.0	3.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050184-1R/Y	TXSM	2.0	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09423-2R/Y	TXSM	2.0	1.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.2	2.0	1.3	3.9	4.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Dalhart
Table 18e.

Notes and general rating for all reps of 21 entries in the Texas Advanced Small Potato Selection Trial, Texas-2013.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Grading
NDTX081451CB-1Y/Y	TXSM	, , keep, no CA, move to a size trial send to RPE,	, , nice flesh, large tubers, move to wh/yel trial,	3.5, 3.8, 3.9, 3.8
NDTX092238C-1P/W	TXSM	better shape, send to CA, , ,	yield+, , ,	4.3, 4, 3.8, 4
ATX05202-3W/Y	TXSM	, , , large tubers, keep, no CA	, , , keep in small trial and move to wh/yel trial	4.1, 4, 3.8, 4.2
ATX06254-2R	TXSM	, keep, no CA, ,	, , ,	4.2, 3.7, 4.1, 4
NDTX092238C-4P/W	TXSM	better skin, send to CA, , ,	heavy set, skin finish??, yield+, , ,	3.7, 4, 4.2, 3.8
ATX05186-1R	TXSM	, keep, no CA, ,	, nice shape, move to red/wh trial, ,	4, 4.2, 3.7, 3.9
NDTX059886-1Y/Y	TXSM	high set, no CA, , ,	, , ,	3.9, 3.5, 3.6, 3.8
ATX07305-1Y/Y	TXSM	keep, no CA, , ,	nice shape and skin, , ,	3.6, 3.8, 3.5, 3.6
NDTX092238C-3P/W	TXSM	, , , better skin, send to CA	, , , heavy set, skin finish??, yield+	4.2, 4, 3.9, 3.8
ATX06246-1R	TXSM	nice shape, skin set?, send to CA, , ,	, , ,	3.8, 4.1, 4, 4.2
ATX06264-4R/Y	TXSM	send to CA, , ,	keep in small trial and move to rd/yel trial, yield+, BOT, , ,	4.8, 4.4, 4.5, 4.4
ATX98462-3R/Y	TXSM	, keep, no CA, ,	, large tubers, move to red/yell trial , ,	4.1, 4, 3.8, 3.7
TX09406-1P/P	TXSM	, , , send to CA	, , , very dark flesh, nice skin	4.2, 4, 3.8, 4
NDTX071258B-1R	TXSM	, , , send to CA	, , , nice flesh and skin color	4.7, 4.5, 4.3, 4.4
COTX04050-1P/P	TXSM	keep, no CA, , ,	, , ,	4.2, 4, 3.8, 3.9
ATX98444-16R/Y	TXSM	nice flesh, send to CA, , ,	very nice flesh, , ,	4.6, 4.5, 4.3, 4.4
ATX05186-3W/Y	TXSM	light set, nice size, keep ,no CA, , ,	nice shape send to Simplot, , ,	3.7, 3.5, 3.3, 3.4
COTX04193-2R/Y	TXSM	uniform size and shape, send to CA, , ,	nice size distribution, , ,	4.8, 4.5, 4.4, 4.5
COTX09040-1P/Y	TXSM	poor skin and shape, no CA, , ,	road map, poor skin finish, drop, , ,	3, 2.6, 3.1, 2.7
NDTX050184-1R/Y	TXSM	, , , light set, no CA	, , , move to rd/yel trial	3.7, 3.5, 3.4, 3.3
TX09423-2R/Y	TXSM	drop, , ,	yell/pink flesh, low yield, nice skin color, drop, , ,	3.1, 2.8, 2.9, 3

2012 Small Potato Selections Trial, Dalhart

The trial consisted of 18 entries of which twelve (NDTX102639C-1W, NDTX102796Cb-2W, COTX10118-3, COTX10226-1, ATX07175-2R/Y, TX11448-4R, COTX10073-1W, NDTX102816CAB-1W, NDTX102816CAB-2W, NDTX113270-2W, NDTX113270-4W, and COTX10138-7W/Y) will be advanced in 2014 (Table 19).

Dalhart
Table 19

Inventory weight of 12 entries to be
advanced from the 2012 Small Potato
Selection Trial grown near Dalhart, Texas-
2013.

Variety or Selection	Trial	Notes	Inventory Weight
NDTX102639C-1W	12SEL	keep	10
NDTX102796Cb-2W	12SEL	keep	42
COTX10118-3	12SEL	keep	6
COTX10226-1	12SEL	keep	14
ATX07175-2R/Y	12SEL	keep	9
TX11448-4R	12SEL	keep	13
COTX10073-1W	12SEL	keep	20
NDTX102816CAB-1W	12SEL	keep	11
NDTX102816CAB-2W	12SEL	keep	10
NDTX113270-2W	12SEL	keep	9
NDTX113270-4W	12SEL	keep	13
COTX10138-7W/Y	12SEL	keep	21

Texas Advanced Fingerling Selection Trial, Dalhart

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

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

- COTX08044-1R/R, COTX08365-3P/P, COTX08365-4R/R, COTX08365-1P/P, and COTX08045-2R/R were the outstanding entries for this trial based on general ratings (Table 20a).
- TX08378-3R/R had the highest total and marketable yield (Table 20a)
- TX09417-1R had the highest yield of < 1 inch tubers. COTX08365-3P/P had the highest yield of over 3 inch tubers. TX08378-3R/R had the highest yield of culls/No. 2 tubers (Table 20a).
- COTX08365-1P/P had the highest percentage of marketable yield. TX09417-1R had the highest percentage of <1 inch tubers. Banana had the highest percentage of culls/No. 2 tubers (Table 20b).
- TX08378-3R/R had the highest average number of tubers per plant (Table 20c).
- TX08378-3R/R, COTX08044-1R/R, COTX08056-10W/Y, COTX08376-2R/Y, COTX08365-4R/R, COTX08365-1P/P, Banana, and Purple Peruvian were the latest maturing entries, COTX09395-1R/R and COTX08367-2R/R were the earliest maturing entries (Table 20c).

Comments on entries:

- | | | |
|-------------------|-------------|---|
| • TX08378-3R/R | Long Red | poor shape, some very curved |
| • COTX09395-1R/R | Long Red | send to RPE |
| • COTX08044-1R/R | Long Red | not fingerling, send to RPE, size A trial, move to red/yellow trial, heavy set, very nice |
| • COTX08365-3P/P | Long Purple | real nice, send to CA, too large |
| • COTX08367-2R/R | Long Red | not fingerling, send to RPE, size A trial |
| • COTX08056-10W/Y | Long Red | not red, W/Y, smooth, not much curve, drop |
| • COTX08365-5P/P | Long Purple | send to CA, silver scurf |
| • TX09417-1R | Long Red | poor shape, no curve, drop |
| • COTX08376-2R/Y | Long Red | no CA |
| • COTX08365-4R/R | Long Red | light skin and flesh send to CA and RPE, not much curve |
| • COTX08365-1P/P | Long Purple | send to CA, some larger tubers |
| • COTX08045-2R/R | Long Red | some large tubers, |

- Banana Long White
- Purple Peruvian Long Purple rough

Summary:

COTX08044-1R/R, COTX08365-3P/P, COTX08365-4R/R, COTX08365-1P/P, and COTX08045-2R/R were the outstanding entries based on all factors. COTX08365-3P/P will be sent to California for further evaluation.

Dalhart
Table 20a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 14 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Total Yield Cwt/A	Total Marketable Yield	Too Long	Under 1 inch	Culls/ No.2	General Rating ¹ Grading
TX08378-3R/R	TXFG	519.2	334.4	64.9	23.6	96.2	3.5
COTX09395-1R/R	TXFG	440.2	273.8	83.4	42.3	40.7	3.5
COTX08044-1R/R	TXFG	346.2	220.9	84.0	12.7	28.6	4.4
COTX08365-3P/P	TXFG	331.9	208.1	104.1	5.4	14.3	4.3
COTX08367-2R/R	TXFG	243.3	183.2	24.7	25.1	10.4	3.5
COTX08056-10W/Y	TXFG	229.0	149.3	58.1	21.6	0.0	3.0
COTX08365-5P/P	TXFG	227.8	168.0	27.6	23.9	8.3	3.0
TX09417-1R	TXFG	223.2	95.4	18.3	109.5	0.0	2.5
COTX08376-2R/Y	TXFG	217.4	181.1	4.4	19.9	12.0	3.4
COTX08365-4R/R	TXFG	193.1	140.6	31.5	19.7	1.2	4.1
COTX08365-1P/P	TXFG	146.0	118.4	6.4	13.3	7.9	4.5
COTX08045-2R/R	TXFG	83.8	66.0	7.9	2.9	7.1	4.0
Banana	TXFG	65.8	40.7	5.0	8.9	11.2	3.6
Purple Peruvian	TXFG	23.2	21.0	1.2	1.0	0.0	3.7
Average		235.0	157.2	37.2	23.6	17.0	3.6
L.S.D. (.05)		78.1	57.7	39.7	27.2	48.7	0.3

¹ 1=very poor to 5= excellent

Dalhart
Table 20b.

Percent by weight of Marketable, under 1 inch and culls/No.2 potatoes, tuber type and skin type of 14 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Percent By Weight				Tuber Type	Skin Type
		Marketable Yield	Too Long	Under 1 inch	Culls/ No. 2		
TX08378-3R/R	TXFG	67.2	12.3	6.0	14.5	Long	Red
COTX09395-1R/R	TXFG	60.8	18.9	12.1	8.2	Long	Red
COTX08044-1R/R	TXFG	64.8	23.9	3.4	7.9	Long	Red
COTX08365-3P/P	TXFG	67.4	27.6	1.5	3.5	Long	Purple
COTX08367-2R/R	TXFG	78.1	8.3	9.3	4.4	Long	Red
COTX08056-10W/Y	TXFG	65.2	25.4	9.4	0.0	Long	Red
COTX08365-5P/P	TXFG	78.4	9.5	8.6	3.6	Long	Purple
TX09417-1R	TXFG	42.8	8.2	49.1	0.0	Long	Red
COTX08376-2R/Y	TXFG	80.9	2.4	11.5	5.2	Long	Red
COTX08365-4R/R	TXFG	75.5	13.4	10.3	0.8	Long	Red
COTX08365-1P/P	TXFG	83.9	3.2	7.0	5.8	Long	Purple
COTX08045-2R/R	TXFG	76.1	12.5	4.6	6.7	Long	Red
Banana	TXFG	62.0	7.4	13.3	17.2	Long	White
Purple Peruvian	TXFG	90.2	5.4	4.5	0.0	Long	Purple
Average		71.0	12.7	10.8	5.6		
L.S.D. (.05)		18.6	14.8	11.5	9.8		

Dalhart
Table 20c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 14 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
TX08378-3R/R	TXFG	10.7	3.1	100	1.8	4.7	4.8	4.7	0
COTX09395-1R/R	TXFG	9.7	2.9	100	1.8	4.8	3.6	4.8	15
COTX08044-1R/R	TXFG	7.4	3.1	96	1.5	3.6	4.3	3.7	6
COTX08365-3P/P	TXFG	6.9	3.1	100	1.9	4.7	3.8	4.7	13
COTX08367-2R/R	TXFG	6.3	2.5	100	1.9	4.6	3.4	4.6	28
COTX08056-10W/Y	TXFG	5.2	2.8	100	2.0	4.7	4.3	4.7	0
COTX08365-5P/P	TXFG	6.5	2.2	100	2.0	4.5	3.8	4.5	13
TX09417-1R	TXFG	7.7	1.9	100	1.8	4.7	3.7	4.7	15
COTX08376-2R/Y	TXFG	5.6	2.5	100	1.8	4.8	4.8	4.8	0
COTX08365-4R/R	TXFG	6.0	2.1	100	2.0	4.3	4.2	4.3	10
COTX08365-1P/P	TXFG	5.7	1.6	100	1.8	4.4	4.8	4.3	0
COTX08045-2R/R	TXFG	6.7	2.6	32	1.8	2.0	3.8	3.0	15
Banana	TXFG	3.1	1.4	100	2.0	4.3	4.1	4.3	5
Purple Peruvian	TXFG	1.9	0.8	100	1.9	4.8	4.7	4.8	0
Average		6.4	2.3	95	1.8	4.3	4.1	4.4	8
L.S.D. (.05)		1.2	0.4	3	ns	0.3	0.4	0.3	ns

¹ 1= upright, 2= semiprostrate, 3= prostrate

² 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous

³ 1= very early, 2= early, 3= medium, 4=late, 5= very late

⁴ 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart
Table 20d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 14 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Flesh Color ¹	Tuber Shape ²	Degree of Russeting ³	Eye Depth ⁴	Skin Color ⁵	Growth Cracks ⁶	Shatter Bruise ⁷	Scab ⁸	Knobs ⁹	Feathering ¹⁰	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration ¹⁰	Percent Internal Brownspot
TX08378-3R/R	TXFG	2.5	5.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09395-1R/R	TXFG	2.5	5.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08044-1R/R	TXFG	2.5	5.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08365-3P/P	TXFG	5.0	5.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08367-2R/R	TXFG	2.5	5.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08056-10W/Y	TXFG	1.0	5.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08365-5P/P	TXFG	5.0	5.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09417-1R	TXFG	1.0	5.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08376-2R/Y	TXFG	2.0	5.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08365-4R/R	TXFG	2.5	5.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08365-1P/P	TXFG	5.0	5.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08045-2R/R	TXFG	2.5	5.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Banana	TXFG	1.0	5.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Purple Peruvian	TXFG	4.0	5.0	1.0	2.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.8	5.0	1.0	3.9	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
L.S.D. (.05)															

¹ 1=light to 5=dark

² 1=round to 5=long

³ 1=none to 5=heavy

⁴ 1=deep to 5=shallow

⁵ 1=light to 5=dark

⁶ 1 to 5=none

⁷ 1 to 5=none

⁸ 1 to 5=none

⁹ 1 to 5=none

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Dalhart
Table 20e.

Notes and general rating for all reps of 14 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Grading
TX08378-3R/R	TXFG	, , poor shape,	, , some very curved,	3.5, 3.8, 3.1, 3.5
COTX09395-1R/R	TXFG	, , send to RPE,	, , ,	3.1, 3.4, 3.8, 3.5
COTX08044-1R/R	TXFG	, not fingerling, send to RPE size a trial, ,	, move to rd/yel trial, heavy set, very nice, ,	4.8, 4.5, 4.2, 4.1
COTX08365-3P/P	TXFG	, real nice, send to CA, ,	, too large, ,	4.8, 4, 4.1, 4.3
COTX08367-2R/R	TXFG	not fingerling, send to RPE size a trial, , ,	not fingerling, move to size a trial, , ,	3.8, 3.2, 3.5, 3.3
COTX08056-10W/Y	TXFG	not red, W/Y, , ,	smooth, not much curve, drop, , ,	3.1, 2.8, 3, 3
COTX08365-5P/P	TXFG	, send to CA, ,	, silver scurf, ,	2.7, 3, 3.1, 3
TX09417-1R	TXFG	poor shape, , ,	poor shape, no curve, drop, , ,	2.6, 2.3, 2.5, 2.5
COTX08376-2R/Y	TXFG	, , no CA,	, , ,	3.8, 3.5, 3.3, 3.1
COTX08365-4R/R	TXFG	, light skin and flesh send to CA and RPE, , ,	, not much curve, ,	4, 4.2, 3.9, 4.1
COTX08365-1P/P	TXFG	send to CA, , ,	some larger tubers, , ,	4.5, 4.8, 4.2, 4.5
COTX08045-2R/R	TXFG	, , ,	, , some large tubers,	4, 4.1, 4, 3.8
Banana	TXFG	, , ,	, , ,	3.6, 3.6, 3.6, 3.6
Purple Peruvian	TXFG	, , ,	rough, , ,	3.7, 3.7, 3.7, 3.7

Appendix A. General notes on potato varieties or selections- 2013.

BC=brown center
BOT=Best of Trial
D/K=drop/keep
FC=flesh color 1-5=dark
GH=green head
HH=hollow heart
IBS=internal brown spot
MB=mahogany browning
Mech=mechanical damage
SE=sugar ends
Stem = Stem end discoloration
TM=tuber moth

A00188-3C -Round Buff. Parentage (A91790-13W x Dakota Pearl). Cross was made and selected in Aberdeen. Medium-early maturity. Medium vine size.

Uses: chip.

Strengths: nice shape

Weaknesses: light set, low yield drop, small

Cutting Notes: large tubers, nice shape

A02062-1TE -Long Russet. Parentage (A97201-4 x A97299-1). Cross was made and selected in Aberdeen. Medium maturity. Medium vine size. White flower color

Uses: dual.

Strengths:

Weaknesses: large tuber, raised eyes, drop, pointed, long and curved, poor shape+, bad rep, too long poor shape too large+, oversized, bruises, drop

Cutting Notes: large, nice shape

A02138-2-Oblong Light Russet. Parentage (A96563-8 x Premier R). Cross was made and selected in Aberdeen. Medium-early maturity. Medium vine size. White flower color.

Uses: dual.

Strengths: nice, smooth large tubers, light russet, heavy yield nice+, blocky, nice shape fat tubers, BOT

Weaknesses: Rhizoctonia, bad rep

Cutting Notes: blocky, small

A02267-1Y -Round Yellow/Yellow. Parentage (Inca Gold x ND5256-7R). Cross was made and selected in Aberdeen. Med-late maturity. Med-large vine size. Med Red-purple flower color.

Uses: specialty.

Strengths: nice uniform size

Weaknesses: small, deep eyes, small+, poor shape light flesh

Cutting Notes: small rough

A02424-83LB -Oblong White Parentage (AO96781-4 x A97229-1). Cross was made and selected in Aberdeen. Medium maturity. Large vine size. White flower color.

Uses: dual.

Strengths:

Weaknesses: poor yield, small, greenhead, drop, poor shape, light set, drop, no net, pointed, greening, Shepody like skin, poor net, small, scab

Cutting Notes: flat, blocky

A02507-2LB -Oblong-long Russet. Parentage (EGA09702-2 x GemStar R). Cross was made and selected in Aberdeen. Med-Late maturity. Medium vine size. White flower color.

Uses: dual.

Strengths: nice shape, fat tubers, blocky, BOT

Weaknesses: slight vascular discoloration pointed, drop, some pointing, blocky

Cutting Notes: very nice

A03158-2TE -Long Russet. Parentage (A98292-2 x A98104-4). Cross was made and selected in Aberdeen. Medium-late maturity. Medium vine size. White flower color.

Uses: dual.

Strengths:

Weaknesses: deep eyes, too long and skinny, poor shape+, rough+, drop++

Cutting Notes: blocky, deep eyes

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

Uses: chip.

Strengths: nice shape and size, smooth heavy set large tubers

Weaknesses: Rhizoctonia,

Cutting Notes: nice shape hollow heart

AC00395-2RU -Long Russet. Parentage (A95523-12 x A84118-3). Cross was made in Aberdeen, and selected in Colorado. Late maturity. Very large vine. Light purple flower color.

Uses: dual.

Strengths:

Weaknesses: drop, too round, blocky++, feathering, Rhizoctonia

Cutting Notes: small, blocky

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, heavy set++ nice shape, BOT

Weaknesses: poor internals, some rough, small+, bad rep very small,

Cutting Notes: nice shape

AC03433-1W -Round White. Parentage (A94322-8C x COA96141-4). Cross was made in Aberdeen and selected in Colorado.

Uses: chip.

Strengths: heavy set

Weaknesses: large tubers, light russet light set, low yield rough

Cutting Notes: some purple streaks, nice shape

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

Uses: chip.

Strengths: yield+, nice shape, nice size

Weaknesses: knobs, deep nose, protruding navel, rough, feathering, drop

Cutting Notes: nice shape

AC05153-1W -Round White. Parentage (A91814-5 x Chipeta). Cross was made in Aberdeen and selected in Colorado. Very early-early maturity. Medium-small vine size. White flower color.

Uses: fresh.

Strengths: yield++ nice flesh

Weaknesses: shape?? more oblong poor shape, pointed, large tubers, drop

Cutting Notes: pressure bruise

AC05175-3P/Y -Oval Purple. Parentage (A99331-2R/Y x COA99261-1RY). Cross was made in Aberdeen and selected in Colorado. Very early maturity. Dark purple flower color. Small vine size.

Uses: specialty.

Strengths: nice purple skin very good skin color nice skin finish smooth, nice flesh

Weaknesses: color deep eyes light set rough some silver scurf

Cutting Notes: light yellow flesh, nice dark skin

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

Uses: dual.

Strengths: nice shape, nice flesh

Weaknesses: skinny, pointed, stem end bruise, drop light set pointed+, curved, drop

Cutting Notes: small, blocky

AO02060-3-Oblong-long Russet. Parentage (A97201-4 x Premier Russet). Cross was made in Aberdeen, and selected in Oregon. Medium-late maturity. Small-medium vine size. White flower color.

Uses: dual.

Strengths: nice shape, blocky yield+, BOT

Weaknesses: light set pointed, some greening feathering, pointed to stem end

Cutting Notes: nice shape

AOTX07876-1Ru - Round Russet. Parentage (A00715-8 x A93575-4). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses: too round, severe hollow heart, drop+++

Cutting Notes:

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: keep, dark skin color

Weaknesses: light set, curved, pointed, small large tubers, some pointed, hollow heart, bad rep, drop rep

Cutting Notes:

AOTX95265-3Ru -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: send to CA

Weaknesses: rough, some pointed

Cutting Notes: Long Russet,

AOTX95295-1W -Oblong White 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: nice shape

Weaknesses: light set, variable size

Cutting Notes:

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: size parent nice rep,

Weaknesses: light set, large tubers, growth cracks, Rhizoctonia, low yield, knobs on large tubers, drop

Cutting Notes: growth cracks, ugly, drop

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: nice, large tubers, blocky, fat tubers, BOT+ *

Weaknesses: Rhizoctonia too round, hollow heart, light set bad rep

Cutting Notes:

AOTX98202-1Ru -Oblong Russet. Parentage (A9201-6 X A9014-2). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium maturity. Medium vine size. Lavender flower color.

Uses: fresh.

Strengths: blocky, nice shape,

Weaknesses: small, light set, pointed, some rough, drop+++ , drop

Cutting Notes:

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: very nice shape and size, BOT

Weaknesses: sever hollow heart oversized variable size poor internals, ugly flesh hollow heart

Cutting Notes: nice large tubers

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. Medium maturity. Small vine size. Lavender flower color.

Uses: specialty.

Strengths: nice skin and flesh nice yellow flesh

Weaknesses: poor shape feathering rough large tubers, some feathering+,

Cutting Notes: purple streaks, poor shape

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: specialty.

Strengths: nice flesh heavy set, small, good skin color, BOT

Weaknesses: light skin+, light set

Cutting Notes: dark flesh, light skin

ATTX05186-3W/Y -Oblong White/Yellow. Parentage (A99433-5Y x VC1075-1R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: specialty.

Strengths: nice size, nice shape send to Simplot nice shape+, heavy set+, nice small size++, keep

Weaknesses: light flesh light set no CA

Cutting Notes: nice

ATTX06246-1R -Round Red. Parentage (Gogu Valley x Modoc) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas

Uses: specialty.

Strengths: nice shape send to CA very white flesh, nice skin, heavy set, *CSS, dark red skin,

Weaknesses: skin set? some growth cracks

Cutting Notes: nice skin and shape

ATTX07023-2Ru -Russet. Parentage (A01754-4 EM x A0082-6 EM 500) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh.

Strengths: nice flesh

Weaknesses: blocky, too blocky, too round??. low yield, drop drop++++

Cutting Notes:

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

Uses: fresh.

Strengths: keep, large tubers, no hollow heart nice white flesh

Weaknesses: poor netting, long, knobs on large tubers, drop

Cutting Notes:

ATTX07039-4Ru -Long Russet. Parentage (Stampede russet EM x AO0385-2 EM 400) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh.

Strengths: nice shape

Weaknesses: small, poor netting, drop++++

Cutting Notes:

ATTX07039-6Ru -Long Russet Parentage (Stampede russet EM x AO0385-2 EM 400) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses: very large tubers, rough, drop++++

Cutting Notes:

ATTX07042-2W -Oblong White Parentage (Western russet EM x A02086-10 EM 500) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: chip.

Strengths:

Weaknesses: large tubers, rough light yellow flesh light set,

Cutting Notes:

ATTX07042-3W -Oblong White Parentage (Western russet EM x A02086-10 EM 500) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: chip.

Strengths: yellow flesh, nice flesh and shape

Weaknesses:

Cutting Notes:

ATTX07230-1Y/RE/Y -Oblong White Parentage (A00286-3Y y x Modoc red 500) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: specialty.

Strengths: yield+, heavy set++, red splash, nice shape

Weaknesses: very light flesh

Cutting Notes:

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: very smooth good skin finish, nice shape and flesh, BOT

Weaknesses: light flesh color light set

Cutting Notes: nice skin, light flesh

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: nice shape and flesh, good skin finish, smooth nice skin finish, very nice, BOT+

Weaknesses: very light flesh color

Cutting Notes: nice skin, light flesh

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: heavy set, send to CA, very nice flesh

Weaknesses: light skin, some culls, lots of small tubers

Cutting Notes: nice flesh

ATTX98453-6R -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, nice skin

Weaknesses: feathering, large tubers, low yield, bad rep

Cutting Notes: nice skin

ATTX98462-3R/Y -Oblong Red Parentage (ATD251-5RY X BO811-13RY). Cross was made in Aberdeen, tuberling produced in Texas and selected in Texas.

Uses: specialty.

Strengths: keep

Weaknesses: no CA, large tubers, move to red/yell trial

Cutting Notes:

ATTX98510-1R/Y -Oblong Red/Yellow. Parentage (T48YF X A93456-6R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Late maturity. Large vine size. Lavender flower color

Uses: specialty.

Strengths:

Weaknesses: heat sprouts, feathering, skin set??. rough, light set, very light flesh, and skin, drop

small

Cutting Notes: nice skin and shape and flesh

ATX05186-2R -Oblong Red. Parentage (A99433-5Y x VC1075-1R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: specialty.

Strengths: small, very white flesh, good skin finish, nice uniform shape, keep nice shape

Weaknesses: no CA move to red/wh trial deep eyes

Cutting Notes: nice skin

ATX05202-3W/Y -Oblong White/Yellow. Parentage (A00286-3Y x A99433-5Y). Cross was made in Aberdeen and selected in Texas.

Uses: specialty.

Strengths: keep in small trial and move to wh/yel trial

Weaknesses: some russeting, some large, light yellow flesh feathering, some culls no CA, drop

Cutting Notes: nice flesh

ATX06254-2R -Round Red, Parentage (A99331-2RY x Durango Red). Cross was made in Aberdeen and selected in Texas.

Uses: specialty.

Strengths: keep

Weaknesses: no CA

Cutting Notes:

ATX06264-4R/Y -Round Red/Yellow. Parentage (A99331-2RY x Durango Red). Cross was made in Aberdeen and selected in Texas.

Uses: specialty.

Strengths: send to CA, keep in small trial and move to red/yel trial, yield+, heavy set, very dark, skin color, nice flesh, some large, good skin finish, BOT-, BOT

Weaknesses: drop?

Cutting Notes: nice skin and flesh

ATX07305-1W/Y -Yellow/Yellow. Parentage (A99433-5Y x Mila) Cross was made in Aberdeen and selected in Texas

Uses: specialty.

Strengths: heavy set keep nice shape and skin

Weaknesses: light flesh too oblong?, poor shape+, stem attachment+, no CA, drop

Cutting Notes: smooth

ATX84378-6Ru -Oblong-Long Russet. Parentage (A79141-9 x ND329-1). Cross was made in Aberdeen, and selected in Texas. Medium-early maturity. Medium vine size. White flower color.

Uses: fresh.

Strengths: nice shape, keep, send to CA nice flesh, blocky

Weaknesses: cut tubers, small, mixed rep, drop

Cutting Notes:

ATX91137-1Ru -Oblong Russet. Parentage (A81473-2 x A8343-12) Cross was made in Aberdeen, and selected in Texas. Late maturity. Medium vine size. Lavender flower color.

Uses: fresh.

Strengths: heavy set, yield++, blocky nice, good size distribution, BOT+

Weaknesses: pointed, raised eyes on large tubers

Cutting Notes: nice shape

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, deep eyes, all culls, very rough

Cutting Notes: rough

BTX2103-1R/Y -Oblong Red/Yellow. Parentage (BO811-13 x ARS-W82-21285-1). Cross was made in Beltsville, Maryland and selected in Texas. Late maturity. Medium vine size. Red-purple flower color

Uses: specialty.

Strengths: nice, smooth

Weaknesses: some rough some rough light skin and flesh

Cutting Notes: nice skin and flesh, some purple streaks

BTX2332-1R -Round Red. Parentage (B1523-4 x Super Red Norland).Cross was made in Beltsville, MD and selected in Texas. Medium maturity. Large vine size. Lavender flower color

Uses: fresh.

Strengths: nice color nice shape, yield+, BOT

Weaknesses: rough skin finish feathering

Cutting Notes: nice flesh, some purple streaks

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

Uses: fresh.

Strengths: heavy set nice large tubers nice shape

Weaknesses: light skin color low yield poor internals feathering

Cutting Notes: very light red skin color

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 nice shape

Weaknesses: light set, ugly, low yield Irregular shape, may oversize, rough+, ugly, pear shaped, oversized, light set, stem attachment

Cutting Notes: hollow heart, scab

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: nice flesh heavy set, BOT

Weaknesses: shape??., light set, small Rhizoctonia, small+

Cutting Notes: nice shape

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:

Weaknesses: rough, ugly, poor shape, too oblong, poor shape, flat, rough, drop++

Cutting Notes: small

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: nice, yield+, nice flesh, smooth, nice shape and size, BOT

Weaknesses: Rhizoctonia

Cutting Notes: small

CO03243-3W -Round White. Parentage (BC0894-2W x A91790-13). Cross was made and selected in Colorado. Medium maturity. Large vine size. Light purple flower color.

Uses: chip.

Strengths: large tuber very nice shape

Weaknesses: deep nose, Rhizoctonia, stem attachment, protruding navel

Cutting Notes: large tubers

CO03276-5RU -Long Russet. Parentage (CO95086-8RU x Blazer Russet). Cross was made and selected in Colorado. Medium early maturity. Medium large vine size. Purple flower color.

Uses: fresh

Strengths: heavy set

Weaknesses: skinny, curved, small, feathering, thin, light set, drop+

Cutting Notes: small, blocky

CO04067-8R/Y -Oval Red. Parentage (CO97232-1R/Y x ATC98444-1R/Y). Cross was made and selected in Colorado. Medium-early maturity. Large vine size. Red-purple flower color.

Uses: specialty.

Strengths: small potato heavy set, nice flesh, very yellow flesh, very nice

Weaknesses: growth cracks, virus?, yellow center of flesh ugly, drop

Cutting Notes: nice skin

CO04099-3W/Y -Oval White/Yellow Parentage (VC1002-3W/Y x ATC98495-1W/Y). Cross was made and selected in Colorado. Early maturity. Medium large vine size. Red-purple flower color.

Uses: specialty.

Strengths: nice dark flesh, small, heavy set nice uniform shape,

Weaknesses: poor skin finish light flesh, some feathering+, red eye

Cutting Notes:

CO04159-1R -Round Red. Parentage (AC97521-1R/Y x CO99076-6R). Cross was made and selected in Colorado. Medium-early maturity. Medium vine size. Purple flower color.

Uses: fresh.

Strengths: very nice color nice shape

Weaknesses: low yield, white flesh

Cutting Notes:

CO05024-11RU -Oblong Russet. Parentage (Rio Grande Russet x Sage Russet). Cross was made and selected in Colorado. Medium maturity. Large vine size. White flower color.

Uses: dual

Strengths: nice flesh

Weaknesses: blocky, rough, pointed to stem end, blocky, light set, rough small, stem end rot, light set, drop++

Cutting Notes: nice shape

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

Uses: specialty.

Strengths: small potato fingerling to small round shape oblong to long, fingerling heavy set ok fingerling shape, nice flesh

Weaknesses: light skin, drop

Cutting Notes: oblong to long, nice flesh

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

Uses: specialty.

Strengths: heavy set nice flesh+ nice shape and size, BOT

Weaknesses: some pointed small+, poor skin finish light flesh

Cutting Notes: nice flesh

CO05040-1RU -Oblong Russet. Parentage (Sage Russet x A96095-3). Cross was made and selected in Colorado. Medium maturity. Large vine size. White flower color.

Uses: dual

Strengths: nice shape, heavy set

Weaknesses: rough, skinny, pointed, Rhizoctonia, small+, poor net, drop++

Cutting Notes: blocky, full shape

CO05061-6W -Round White. Parentage (ATDC9801-3P x BC0894-2W). Cross was made and selected in Colorado. Early maturity. Medium-small vine size. Blue-purple flower color

Uses: Chip.

Strengths: very nice shape, BOT

Weaknesses: poor skin color, small+

Cutting Notes: large tubers

CO05062-2P/P -Round Purple. Parentage (ATDC9801-3P x CO97227-2P/PW). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White flower color.

Uses: specialty.

Strengths: nice, small, heavy set smooth, BOT

Weaknesses: small, drop low yield

Cutting Notes: nice round shape, very dark flesh

CO05068-1RU -Oblong Russet. Parentage (AWN86514-2 x CO98009-3RU). Cross was made and selected in Colorado. Medium maturity. Large-very large vine size. White flower color.

Uses: dual

Strengths:

Weaknesses: rough, small, late, poor netting, poor shape, heat sprouts, blocky+, too round, culls+, feathering, drop++

Cutting Notes: nice shape

CO05110-6RU -Oblong Russet. Parentage (COA96054-3 x CO98009-3RU). Cross was made and selected in Colorado. Very early-early maturity. Medium vine size. Red-Purple flower color.

Uses: dual

Strengths:

Weaknesses: large, severe hollow heart, deep eyes, some pointing, light set, blocky, rough, Rhizoctonia, large tubers, drop++

Cutting Notes: large, nice shape

CO05132-2RU -Long Russet. Parentage (Blazer Russet x CO99100-1RU). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

Uses: dual

Strengths: nice net and appearance nice shape

Weaknesses: light set blocky, light set feathering

Cutting Notes: small

CO05149-3RU -Long Russet. Parentage (AC96052-1RU x CO99100-1RU). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

Uses: dual

Strengths: heavy set

Weaknesses: poor net rough, hollow heart, ugly net+, drop++

Cutting Notes: skinny

CO05152-5RU -Oblong Russet. Parentage (AC99375-1RU x Blazer Russet). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

Uses: fresh.

Strengths: heavy set,

Weaknesses: pointed++, culls+, knobs, poor shape, small blocky, drop++

Cutting Notes: blocky, nice shape

CO05175-1RU -Long Russet. Parentage (CO94035-15RU x AC96052-1RU). Cross was made and selected in Colorado. Medium maturity. Large vine size. White flower color.

Uses: dual

Strengths:

Weaknesses: pointed, long skinny, too long, curved, drop

Cutting Notes: small, nice shape

CO05189-2RU -Oblong Russet. Parentage (CO97138-7RU x AC92009-4RU). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

Uses: fresh.

Strengths: yield+ heavy set and yield nice flesh, attractive tubers

Weaknesses: blocky, rough Rhizoctonia feathering

Cutting Notes: small, flat

CO05189-3RU -Oblong Russet. Parentage (CO97138-7RU x AC92009-4RU). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White flower color.

Uses: dual.

Strengths: size parent

Weaknesses: blocky, oversized, light set, rot, pointed, large tubers are rough, blocky, drop

Cutting Notes: small, blocky

CO05211-4R -Round Red. Parentage (CO98012-5R x CO00278-4R). Cross was made and selected in Colorado. Early maturity. Medium vine size. Red-Purple flower color.

Uses: fresh.

Strengths: small potato++, red to purple skin color, good skin set nice skin color, BOT

Weaknesses: rot+ poor shape+, rough, small, drop+

Cutting Notes: small

CO05228-4R -Oblong. Red. Parentage (CO99256-2R x CO00292-9R). Cross was made and selected in Colorado Early maturity. Medium vine size. Red-Purple flower color.

Uses: fresh.

Strengths: yield+ nice skin color and finish nice shape and skin

Weaknesses: small, feathering too small, small potato??, drop

Cutting Notes: nice color and shape

COTX01403-4R/Y -Oblong Red/Yellow Parentage (VC1015-7R/Y x Winema). Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: fast bulk very large tubers, good skin finish, yield+ nice flesh, BOT

Weaknesses: growth cracks, light skin, poor skin color and shape

Cutting Notes: nice skin, light flesh not as good as Sierra Rose

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

Uses: fresh.

Strengths: nice shape, smooth+, nice flesh, good skin finish

Weaknesses: feathering light skin color, more oblong, drop

Cutting Notes: purple streaks in the flesh

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

Uses: fresh.

Strengths: good skin finish++, nice color and shape nice round shape, BOT

Weaknesses: light set+

Cutting Notes: nice skin

COTX04015-3AW/Y -Oblong White/Yellow Parentage (ATC98515-1R/Y x ATC98444-1R/Y). Cross was made in Aberdeen and selected in Texas. Medium-late maturity. Large vine size. Lavender flower color

Uses: specialty.

Strengths: nice flesh heavy set

Weaknesses: small, flat, pear shaped, shape? light set and yield some rough, poor shape

Cutting Notes: poor shape

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: keep, heavy set, very dark flesh, nice skin

Weaknesses: no CA

Cutting Notes: nice skin and flesh

COTX04193-2R/Y -Oblong Red/Yellow. Parentage (ATC98515-1R/Y x ND3574-5R). Cross was made in Colorado and selected in Texas. Medium-early maturity. Small vine size.

Uses: specialty.

Strengths: *CSS, nice shape and color, nice flesh, good skin finish uniform size and shape, send to CA, nice size distribution, BOT++

Weaknesses:

Cutting Notes: nice skin, light flesh

COTX05082-2P/P -Oblong Purple/Purple. Parentage (CO97227-2P/P x WMSG147-3). Cross was made in Colorado and selected in Texas. Medium maturity. Small vine size.

Uses: specialty.

Strengths: send to RPE, long very dark flesh, keep for flesh color

Weaknesses: rough, poor shape

Cutting Notes: rough, very dark flesh

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

Uses: fresh.

Strengths: keep

Weaknesses: some greening pointed, light skin, poor skin finish and net, low yield, small, drop++

Cutting Notes:

COTX07054-2R -Oblong Red. Parentage (ATDC9801-3P x CO99076-6R) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths: nice yield, very nice skin color and shape, good skin finish, BOT

Weaknesses: variable size low yield, feathering

Cutting Notes: small

COTX07382-1W/Y -Oblong White/Yellow. Parentage (Blazer Russet x Innovator) Cross was made in Colorado and selected in Texas. Medium maturity. Medium vine size. White flower color.

Uses: specialty.

Strengths: better yield nice appearance smooth

Weaknesses: light flesh lots of digger cuts, light set, low yield too oblong, very light flesh, small, bad rep drop, drop

Cutting Notes: smaller tubers

COTX07382-2W/Y -Oblong White/Yellow. Parentage (Blazer Russet x Innovator) Cross was made in Colorado and selected in Texas. Medium maturity. Medium vine size. White flower color.

Uses: specialty.

Strengths: smooth very nice, heavy set, large tubers, BOT

Weaknesses: light flesh

Cutting Notes: smooth too oblong, very light flesh, drop

COTX08044-1R/R -Long Red, Parentage (FF x KP (501) x FF x KP (501)) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: send to RPE size a trial, move to red/yel trial, heavy set, very nice

Weaknesses: not fingerling

Cutting Notes:

COTX08045-2R/R -Long Red Parentage (FF x KP (501) x POR01PG22-1) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses: some large tubers,

Cutting Notes:

COTX08046-8P/P -Round Purple Parentage (FF x KP (501) x Magic Molly) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses: knobs, poor shape, drop

Cutting Notes:

COTX08056-10W/Y -Long Red Parentage (French Fingerling x POR01PG22-1) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses: not red, W/Y, smooth, not much curve, drop

Cutting Notes:

COTX08121-4Ru -Oblong Russet Parentage (AC96052-1RU X Blazer Russet) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses: pointed, drop?

Cutting Notes:

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

Uses: fresh.

Strengths: nice blocky, keep, send to CA

Weaknesses: light russet, light skin, knobs

Cutting Notes:

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

Uses: fresh.

Strengths: keep, send 1 row to Joe

Weaknesses:

Cutting Notes:

COTX08322-11Ru -Long Russet Parentage (Blazer Russet x AC96052-1RU) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses: poor skin, drop+++++

Cutting Notes:

COTX08322-5Ru -Long Russet Parentage (Blazer Russet x AC96052-1RU) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths: keep

Weaknesses:

Cutting Notes:

COTX08365-1P/P -Long Purple/Purple. Parentage (POR01PG16-1 x CO00405-1R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: heavy set, small fingerling shape, nice skin color, all blue type flesh, smooth send to CA

Weaknesses: lower set some larger tubers

Cutting Notes: nice shape and skin

COTX08365-3P/P -Long Purple. Parentage (POR01PG16-1 x CO00405-1R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: real nice, nice skin color send to CA,

Weaknesses: too large some large

Cutting Notes: nice skin and flesh

COTX08365-4R/R -Long Red Parentage (POR01PG16-1 x CO00405-1R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: send to CA and RPE

Weaknesses: light skin and flesh not much curve

Cutting Notes:

COTX08365-5P/P -Long Purple Parentage (POR01PG16-1 x CO00405-1R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: send to CA

Weaknesses: silver scurf

Cutting Notes:

COTX08367-2R/R -Long Red Parentage (POR01PG20-12 x CO00405-1R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: send to RPE size a trial move to size a trial

Weaknesses: not fingerling

Cutting Notes:

COTX08376-2R/Y -Long Red Parentage (US147-96 x POR01PG22-1) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses: no CA

Cutting Notes:

COTX09022-3RuRE/Y -Oblong Russet Parentage (A00286-3Y x CO99100-1RU) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: red eyes, keep, blocky, nice flesh, send to CA, high yield, TC?

Weaknesses:

Cutting Notes:

COTX09022-5Ru/Y -Oblong Russet. Parentage (A00286-3Y x CO99100-1RU) Cross was made in Colorado and selected in Texas.

Uses: chip.

Strengths: Larson??, nice yellow flesh, red eye, move to yellow flesh trial,

Weaknesses: pointing

Cutting Notes: some red splash color

COTX09040-1P/Y -Oblong Purple Parentage (ATTX98500-2P/Y x POR02PG26-5) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses: poor skin and shape, no CA, road map, poor skin finish, drop

Cutting Notes:

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

Uses: fresh.

Strengths: yield+, parent keep nice shape, blocky, heavy set, BOT

Weaknesses: smaller tubers, feathering flat

Cutting Notes:

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

Uses: fresh.

Strengths: TC?, send to SW, nice shape and skin, long, BOT+

Weaknesses: mixed, keep light russet

Cutting Notes:

COTX09053-1Ru -Oblong Russet Parentage (CO03202-1RU x CO99053-3RU) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths: blocky

Weaknesses: light set, drop++++

Cutting Notes:

COTX09075-4Ru -Long Russet Parentage (CO03380-2RU x CO99100-1RU) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths: blocky

Weaknesses: variable size skinny, poor skin finish, light skin, drop++++

Cutting Notes:

COTX09075-7Ru -Long Russet Parentage (CO03380-2RU x CO99100-1RU) Cross was made in Colorado and selected in Texas.

Uses: fresh

Strengths:

Weaknesses: growth cracks, drop+++

Cutting Notes:

COTX09089-1Ru -Oblong White Parentage (94-10800-1 x COTX03308-3RU) Cross was made in Colorado and selected in Texas.

Uses: chip

Strengths:

Weaknesses:

Cutting Notes:

COTX09097-2Ru -Long Russet. Parentage (A95409-1 x CO99100-1RU) Cross was made in Colorado and selected in Texas.

Uses: fresh

Strengths: nice flesh

Weaknesses: pointed, blocky, bad rep pointed, drop+++

Cutting Notes:

COTX09097-3Ru -Oblong Russet Parentage (A95409-1 x CO99100-1RU) Cross was made in Colorado and selected in Texas.

Uses: fresh

Strengths:

Weaknesses: blocky growth cracks, drop+++

Cutting Notes:

COTX09101-1Ru -Long Russet. Parentage (A96104-2 x CO03202-1RU) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses: too round, growth cracks, feathering, large tubers, poor skin finish, rough, large, drop+++

Cutting Notes:

COTX09150-1Ru -Oblong Russet Parentage (AC00395-2RU x CO03380-2RU) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses: small, blocky, drop+++

Cutting Notes:

COTX09182-5Ru -Long Russet Parentage (AO96365-2 x CO99100-1RU) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses: rough, growth cracks, curved, drop++

Cutting Notes:

COTX09196-1Ru -Long Russet. Parentage (AO00057-2 x CO98067-7RU) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths: keep for yield

Weaknesses: pointed, long, Rhizoctonia, drop

Cutting Notes:

COTX09323-2Ru -Long Russet Parentage (CO03374-4RU x CO98067-7RU) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses: low yield, drop++++

Cutting Notes:

COTX09395-1R/R -Long Red Parentage (POR01PG22-1 x CO03134-4RF) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: send to RPE

Weaknesses:

Cutting Notes:

F07027 -Round White

Uses: fresh.

Strengths: heavy set, very light flesh (white), nice shape and size

Weaknesses: some pointed light set, large tubers++, hollow heart

Cutting Notes:

F07049 -Round Red.

Uses: fresh.

Strengths: heavy set, very, white flesh

Weaknesses: small, very light skin

Cutting Notes:

F07060 -Round Red

Uses: fresh.

Strengths: heavy set+, nice shape

Weaknesses: light skin + small+, very light flesh

Cutting Notes:

FL1867 -Oblong White Parentage (??). Cross was made and selected by FRITO LAY CO.

Uses: chip.

Strengths: nice flesh

Weaknesses: poor shape, drop

Cutting Notes:

FL1867 -Round White Parentage (??). Cross was made and selected by FRITO LAY CO.

Uses: chip.

Strengths: large tubers, BOT

Weaknesses:

Cutting Notes:

FL2048 -Oblong White Parentage (??). Cross was made and selected by FRITO LAY CO.

Uses: chip.

Strengths: nice shape

Weaknesses: low yield

Cutting Notes:

FL2053 -Oblong White Parentage (??). Cross was made and selected by FRITO LAY CO.

Uses: chip.

Strengths:

Weaknesses: too oblong, rough, ugly, drop

Cutting Notes:

FL2137 -Oblong White Parentage (??). Cross was made and selected by FRITO LAY CO.

Uses: chip.

Strengths:

Weaknesses: large tubers, light set

Cutting Notes:

FL2312 -Round White Parentage (??). Cross was made and selected by FRITO LAY CO.

Uses: chip.

Strengths: large tubers

Weaknesses: light set

Cutting Notes:

FL2360 -Round White Parentage (??). Cross was made and selected by FRITO LAY CO.

Uses: chip.

Strengths: nice shape smooth, very large tubers

Weaknesses: smaller tubers, hollow heart, light set

Cutting Notes:

FL2385 -Round White Parentage (??). Cross was made and selected by FRITO LAY CO.

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes:

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: nice skin heavy set, good skin finish, nice shape

Weaknesses: small potato, some buff skin, feathering, drop?

Cutting Notes: smooth

NDTX050184-1R/Y -Round Red/Yellow. Parentage (ND 028577-6RY x ND 8555-8R).Cross was made in North Dakota and selected in Texas. Late maturity. Large vine size. Lavender flower color.

Uses: specialty.

Strengths: nice skin

Weaknesses: light set, light flesh no CA, move to red/yel trial, drop

Cutting Notes: nice skin, light flesh

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: nice red color and flesh better yield, nice red skin color, nice flesh

Weaknesses: some feathering, flat, oval, some scab low yield

Cutting Notes: pinto, some purple streaks

NDTX059886-1W/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: high set,

Weaknesses: some larger tubers move to white yell trial, some buff skin, shape?? no CA

Cutting Notes: nice skin and flesh

NDTX060700C-1W -Round White. Parentage (NDTX 7560C-4 x NDTX 7192-1).Cross was made in North Dakota and selected in Texas. Early maturity. Small vine size. White flower color.

Uses: chip.

Strengths: nice shape nice flesh

Weaknesses: very small very light set vascular browning, poor skin finish

Cutting Notes: small

NDTX071109C-1W -Round White. Parentage (ND 7226C-17 x ND 860-2) Cross was made in North Dakota and selected in Texas. Late maturity. Large vine size.

Uses: chip.

Strengths: nice, heavy set nice flesh nice shape, size, and flesh

Weaknesses: deep nose, rough+

Cutting Notes: deep eyes, rough

NDTX071217CB-1W/Y -Round White. Parentage (ND 028801CB-1 x ND 039004B-2Y) Cross was made in North Dakota and selected in Texas. Medium maturity. Medium vine size.

Uses: chip.

Strengths: nice shape and flesh, large tubers, yellow flesh, enter in both chip and yell flesh trials smooth skin finish, early, BOT

Weaknesses: light set light yield, small

Cutting Notes: nice yellow flesh

NDTX071258B-1R -Round Red. Parentage (ND 039035B-9R x ND 4659-5R) Cross was made in North Dakota and selected in Texas.

Uses: specialty.

Strengths: send to CA, nice flesh and skin color very white flesh and red skin, good skin finish, nice shape and skin, *CSS, BOT

Weaknesses:

Cutting Notes: nice shape and skin

NDTX081451CB-1W/Y -Oblong Yellow/Yellow. Parentage (Dakota Diamond x Gala) Cross was made in North Dakota and selected in Texas. Late maturity. Large vine size. White flower color

Uses: specialty.

Strengths: heavy set, good size distribution nice shape and skin, keep move to a size trial send to RPE, nice flesh, large tubers, move to wh/yel trial

Weaknesses: some larger tubers no CA

Cutting Notes: nice shape and skin

NDTX081572B-1R -Round Red. Parentage (ND 4659-5R x ND 028940B-102R) Cross was made in North Dakota and selected in Texas.

Uses: fresh.

Strengths: heavy set nice white flesh Modoc like heavy set

Weaknesses: small potato?, deep eyes, low yield, drop

Cutting Notes: small, internal brownspot

NDTX081644CAB-2W -Round White. Parentage (ND 8331Cb-3 X ND 028804CAb-5) Cross was made in North Dakota and selected in Texas.

Uses: chip.

Strengths: heavy set, move to small potato trial, nice size and shape, nice flesh, BOT, BOT-

Weaknesses: small, very small tubers

Cutting Notes: small

NDTX081648CB-13W -Round White. Parentage (ND 8456-1 xND7377CB-1) Cross was made in North Dakota and selected in Texas.

Uses: chip.

Strengths: nice, nice flesh nice size, nice flesh, nice shape, ok shape

Weaknesses: slight brown center

Cutting Notes: smooth skin

NDTX081648CB-1W -Round White. Parentage (ND 8456-1 xND7377CB-1) Cross was made in North Dakota and selected in Texas.

Uses: chip.

Strengths: yield+, heavy set nice shape and size, large tubers, nice flesh, light set and yield,

Weaknesses: light set

Cutting Notes: buff

NDTX081648CB-2W -Round White. Parentage (ND 8456-1 xND7377CB-1) Cross was made in North Dakota and selected in Texas.

Uses: chip.

Strengths: heavy set, nice shape nice shape and size, BOT

Weaknesses: small potato??,

Cutting Notes: small

NDTX081648CB-4W -Round White. Parentage (ND 8456-1 xND7377CB-1) Cross was made in North Dakota and selected in Texas.

Uses: chip.

Strengths: nice shape, very heavy set and yield++, BOT++, BOT-,

Weaknesses: Rhizoctonia,

Cutting Notes: nice shape

NDTX091886-3P/P -Round Purple Parentage (COND 04082-8RR X ND 7519-1) Cross was made in North Dakota and selected in Texas.

Uses: specialty

Strengths: smooth

Weaknesses:

Cutting Notes:

NDTX091908AB-2W -Round White. Parentage (Ebt 6-21-5 X ND 7519-1) Cross was made in North Dakota and selected in Texas.

Uses: chip.

Strengths: heavy set++, nice flesh yield++, nice shape, heavy set and yield, nice flesh, BOT, BOT

Weaknesses: small, variable size, light set,

Cutting Notes: nice shape

NDTX092231C-1R -Round Red. Parentage (ND 049326C-2P x AND 00272-1R) Cross was made in North Dakota and selected in Texas.

Uses: fresh.

Strengths: nice color nice oblong shape, heavy set, smooth, good skin finish

Weaknesses: oversized, deep eyes, drop+

Cutting Notes: nice skin

NDTX092238C-1P/W -Round Purple Parentage (ND 049326C-2P x ND 8555-8R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: better shape, send to CA, yield+

Weaknesses:

Cutting Notes:

NDTX092238C-3P/W -Round Purple Parentage (ND 049326C-2P x ND 8555-8R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: better skin, send to CA, heavy set yield+

Weaknesses: skin finish?

Cutting Notes:

NDTX092238C-4P/W -Round Purple Parentage (ND 049326C-2P x ND 8555-8R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: better skin, send to CA, heavy set yield+

Weaknesses: skin finish?

Cutting Notes:

NDTX092308-5R -Round Red Parentage (ND 059823-4R x ND 8555-8R) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths: heavy set

Weaknesses: small, feathering, deep eyes

Cutting Notes: deep eyes, nice shape, color and flesh

NDTX092340AB-1C-1W -Oblong White Parentage (ND 060463C-1 x Etb 6-21-4) Cross was made in Colorado and selected in Texas.

Uses: chip.

Strengths: heavy set

Weaknesses: poor shape, flat, shape??., light set and yield

Cutting Notes:

NDTX102461AB-4W -Oblong White Parentage (Ivory Crisp x ND 060421Ab-1) Cross was made in Colorado and selected in Texas.

Uses: chip.

Strengths:

Weaknesses: light set and yield

Cutting Notes:

NDTX102462C-2W -Round White Parentage (Ivory Crisp x ND 060831C-1) Cross was made in Colorado and selected in Texas.

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes:

NDTX102462C-6W -Round White Parentage (Ivory Crisp x ND 060831C-1) Cross was made in Colorado and selected in Texas.

Uses: chip.

Strengths: yield+, nice size and shape

Weaknesses:

Cutting Notes:

NDTX102514ABC-5W -Round White Parentage (Etb 6-5-5 x ND 060831C-6) Cross was made in Colorado and selected in Texas.

Uses: chip.

Strengths: heavy set, nice shape and distribution,

Weaknesses: 20% IBS, poor internals, small, very small tubers, small potato

Cutting Notes:

NDTX102557-1W -Oblong White Parentage (ND 860-2 x King Harry) Cross was made in Colorado and selected in Texas.

Uses: chip.

Strengths: yellow flesh, nice shape and size, move to yell trial,

Weaknesses: oval, flat small,

Cutting Notes: CR=1

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: very nice color, yield++, good skin finish, BOT++

Weaknesses:

Cutting Notes:

NDTX5438-11R -Round Red. Parentage (ND4339-10R x ND4269-9R). Cross was made in North Dakota and selected in Texas. Late maturity. Medium vine size. Lavender flower color.

Uses: fresh.

Strengths: good color and nice flesh, smooth, nice skin finish++ great shape and color, very white flesh, BOT

Weaknesses:

Cutting Notes: some large tubers, nice color

OR05039-4 -Long White. Parentage (AO95245-2 x PA00N29-3). Cross was made and selected in Oregon. Early maturity. Medium vine size. White flower color.

Uses: process.

Strengths:

Weaknesses: light net, too long, pointed thin, poor netting, stem end rot, white skin, poor skin finish, ugly, pointed, skinny, too long, drop

Cutting Notes: pointed

POR06V12-3 -Oblong-Long Russet. Parentage (PA00V6-4 x PA01N22-1). Cross was made and selected in Oregon. Med-late maturity Med-large vine size White flower color.

Uses: dual.

Strengths: nice shape,

Weaknesses: blocky, light set feathering, low yield, nice

Cutting Notes: blocky, nice skin and shape

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: very dark flesh better rep,

Weaknesses: small, bad rep, low yield

Purple Peruvian -Long Purple/Purple. Parentage (??).

Uses: specialty.

Strengths:

Weaknesses: rough very small, all culls, deep eyes, small, poor shape

Cutting Notes: all blue like flesh

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.

Strengths:

Weaknesses: rough, poor shape, skinny, poor shape, curved, poor shape, drop+

Cutting Notes: long and 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: yield++

Weaknesses: deep eyes, oversized, feathering deep eyes, rough

Cutting Notes: deep eyes

Rochdale Gold -Oblong White

Uses: fresh.

Strengths: heavy set+, nice shape+,

Weaknesses: deep nose, some buff skin, hollow heart

Cutting Notes:

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: nice shape+

Weaknesses: rough, poor shape, skinny, low yield, blocky light set, drop

Cutting Notes: long and rough

Russet Norkotah -Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Released in 1987 by the North Dakota Agricultural Experiment Station. Early-medium maturity. Medium vine size. Corolla is white and anthers are yellow-orange.

Uses: fresh.

Strengths: some very nice shape

Weaknesses: some rough, oversized, pointed, too long bad rep, some curved poor shape, long

Cutting Notes: nice shape, large tubers

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: nice, nice flesh

Weaknesses: hollow heart on very large tubers, some curved, pointed, long+,

Cutting Notes: nice

Shepody -Long White. Parentage (Bake King x F58050). Selected in New Brunswick, Canada and released by Agriculture Canada, - New Brunswick in 1980. Medium-late maturity. Medium vine size. Light violet flower color with white tips.

Uses: Early harvest processing.

Strengths:

Weaknesses: light set, small, pointed curved, white skin, poor shape, long, skinny, drop+

Cutting Notes: flat

Sierra Gold -Oblong Russet very nice shape and flesh, light set, large tubers

Stampede Russet -Oblong-Long Russet. Parentage (BR7091-1 x Lemhi Russet), cross made in Texas, selected in Idaho and tested extensively in Alberta, Canada. Released in 1999 by Agriculture and Agri-Food Canada and the Texas Agricultural Experiment Station. Early maturity. Medium vine size.

Lavender flower color.

Uses: fresh.

Strengths: fat tubers, nice shape, BOT

Weaknesses: some pointed to stem end, blocky+, light set

Cutting Notes: large tubers

STP00-10

Uses: fresh.

Strengths: very white flesh,

Weaknesses: poor shape, feathering, rough, white skin, poor shape and skin

TX08350-12Ru -Long Russet. Parentage (TXA549-1Ru x AC96052-1RU). Cross was made and selected in Texas.

Uses: fresh.

Strengths: keep dark skin

Weaknesses: very light skin, low yield, bad rep mixed light and dark skin, drop?

Cutting Notes:

TX08351-5Ru -Long Russet Parentage (TXA549-1Ru x AOA95154-1) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths: send to SW, good shape, nice flesh, keep, BOT-

Weaknesses: bad rep

Cutting Notes:

TX08352-2Ru -Oblong Russet. Parentage (TXA549-1Ru x AOTX98137-1Ru). Cross was made and selected in Texas.

Uses: chip

Strengths: heavy set, early??, move to russet trial??

Weaknesses: light russet, drop for HH

Cutting Notes: blocky

TX08352-3Ru -Oblong Russet Parentage (TXA549-1Ru x AOTX98137-1Ru) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses: some blocky, nice shape, severe hollow heart, drop++++

Cutting Notes:

TX08352-5Ru -Long Russet. Parentage (TXA549-1Ru x AOTX98137-1Ru). Cross was made and selected in Texas.

Uses: fresh.

Strengths: no hollow heart, BOT, send to SW large tubers, nice interior, BOT+++***

Weaknesses:

Cutting Notes:

TX08352-8Ru -Oblong Russet Parentage (TXA549-1Ru x AOTX98137-1Ru) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths: smooth, keep,

Weaknesses: blocky

Cutting Notes:

TX08356-1W -Oblong White Parentage (NDTX4930-5W x 93-1285-6) Cross was made in Colorado and selected in Texas.

Uses: chip.

Strengths: yellow flesh, nice shape, smooth

Weaknesses:

Cutting Notes:

TX08356-8W -Round White Parentage (NDTX4930-5W x 93-1285-6) Cross was made in Colorado and selected in Texas.

Uses: chip.

Strengths: nice shape and size

Weaknesses:

Cutting Notes:

TX08363-2R -Oblong Red Parentage (CO98012-5R x BTX2332-1R) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths: nice shape and color, large tubers

Weaknesses:

Cutting Notes:

TX08375-1R -Oblong Red. Parentage (CO97222-1R/R x POR02PG26-5). Cross was made and selected in Texas.

Uses: fresh.

Strengths: nice flesh good color,

Weaknesses: too long, pointed, drop, poor shape eye brows, red to purple skin, poor skin finish, drop

Cutting Notes: nice skin

TX08375-3R -Round Red Parentage (CO97222-1R/R x POR02PG26-5) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths: heavy set, nice shape+, good skin finish,

Weaknesses: light skin small,

Cutting Notes:

TX08378-3R/R -Long Red. Parentage (POR01PG20-12 x POR02PG26-5) Cross was made and selected in Texas.

Uses: specialty.

Strengths: bright red skin, red/yellow flesh, nice fingerling shape, very nice skin and flesh, good shape, heavy set+++

Weaknesses: poor shape, some very curved

Cutting Notes: poor shape

TX08385-1Y/Y-Oblong Yellow/ Yellow. Parentage (COTX03025-1P/P x 93-1285-6). Cross was made and selected in Texas.

Uses: specialty.

Strengths: better flesh, keep, nice shape, very light flesh heavy set very nice

Weaknesses: a little rough on large tubers,

Cutting Notes: very nice

TX09396-1W -Oblong White Parentage (Atlantic x NY139) Cross was made in Colorado and selected in Texas.

Uses: chip.

Strengths: nice shape, light set, ok shape

Weaknesses:

Cutting Notes:

TX09403-14W -Round White Parentage (NY138 x Ivory Crisp) Cross was made in Colorado and selected in Texas.

Uses: chip.

Strengths: yield++, heavy set, nice shape, BOT,

Weaknesses: small

Cutting Notes:

TX09406-1P/P -Round Purple Parentage (A99331-2RY x CO00405-1R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: send to CA, very dark flesh, nice skin

Weaknesses:

Cutting Notes:

TX09406-3P/P -Oblong Purple Parentage (A99331-2RY x CO00405-1R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: very dark flesh

Weaknesses: poor shape, feathering,

Cutting Notes:

TX09414-1W -Oblong White Parentage (ATTX98500-2P/Y x Chipeta) Cross was made in Colorado and selected in Texas.

Uses: chip.

Strengths:

Weaknesses: large tubers, rough, poor internals, light set

Cutting Notes:

TX09417-1R -Long Red Parentage (A00286-3Y x CO00405-1R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses: poor shape, no curve, drop

Cutting Notes:

TX09420-1R/Y -Round Red Parentage (POR03PG23-1 x COTX94218-1R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: uniform shape, dark skin color, nice shape and skin,

Weaknesses: some purple streaking

Cutting Notes:

TX09420-3R/Y -Round Red Parentage (POR03PG23-1 x COTX94218-1R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: dark skin color, nice uniform shape, nice skin,

Weaknesses: faint purple ring,

Cutting Notes:

TX09423-2R/Y -Round Red Parentage (CO97215-2P/P x COTX94218-1R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: nice skin color

Weaknesses: yell/pink flesh, low yield, drop

Cutting Notes:

TX09423-3P/P -Round Purple Parentage (CO97215-2P/P x COTX94218-1R) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: better size distribution

Weaknesses: lighter flesh

Cutting Notes:

TX09429-1P/P -Oblong Purple Parentage (COTX0325-1P/P x COTX04050-1P/P) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: send to CA, very dark flesh, heavy yield

Weaknesses:

Cutting Notes:

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: very nice, fat tubers, BOT

Weaknesses: blocky, growth cracks

Cutting Notes: blocky

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: keep, nice flesh

Weaknesses: light set, growth cracks, small, low yield

Chip Notes: CR=3, % Zebra Chip: 0%

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: smooth very nice, nice shape, darker yellow flesh than normal, BOT

Weaknesses: some rough, poor internal very large tubers, oversized, light set, hollow heart on very large tubers

Cutting Notes: nice shape, light flesh

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: nice shape heavy set, very nice large tubers+ nice yellow flesh, darker than normal, BOT

Weaknesses: large tubers, light russet internal??, oversized

Cutting Notes: nice shape, light flesh

Waneta -Oblong White. Parentage (??). Cross made and selected at Cornell University.

Uses: chip

Strengths: nice, nice flesh, BOT++,

Weaknesses:

Cutting Notes:

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: nice shape, darker yellow flesh than normal, nice flesh, no hollow heart

Weaknesses: light set, some brown center poor internals, oversized

Cutting Notes: very nice

Appendix B. Parentage of potato varieties or selections-2013.

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	Bintje 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
Emma	Colleen x Estima
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
Lanorma	Bydand x Caesar
Latona	Jaerla x Nicola
Magic Molly	Open pollinated seed ball from Red

Variety or Selection	Parentage
	Beauty
Maris Piper	
Mazama	ND1196-2R x Redsen
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 Hairly	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

Variety or Selection	Parentage
Russet Norkotah223	ND9526-4RU x ND9687-5Ru
Russet Norkotah278	ND9526-4RU x ND9687-5Ru
Russet Norkotah296	ND9526-4RU x ND9687-5Ru
Rutt	Laila x Alcmaria
Saginaw Gold	MS321-38 x Michibonne
Sangre	Viking x A6356-9
Sangre10	Viking x A6356-9
Sante	SVPY66-13-636 x AM66-42
Satina	Puntila x 99 73
Shepody	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	
A00188-3C	A91790-13W x Dakota Pearl
A02062-1TE	A97201-4 x A97299-1
A02138-2	A96563-8 x Premier R
A02267-1Y	Inca Gold x ND5256-7R

Variety or Selection	Parentage
A02424-83LB	AO96781-4 x A97229-1
A02507-2LB	EGA09702-2 x GemStar R
A03158-2TE	A98292-2 x A98104-4
AC00206-2W	AC87340-2 x Dakota Pearl
AC00395-2RU	A95523-12 x A84118-3
AC01151-5W	COA96142-7 x NDA2031-2
AC03433-1W	A94322-8C x COA96141-4
AC03452-2W	A98423-1C x COA96141-2C
AC05153-1W	A91814-5 x Chipeta
AC05175-3P/Y	A99331-2R/Y x COA99261-1RY
AO01114-4	AO92017-6 x A86102-6
AO02060-3	A97201-4 x Premier Russet
AOTX07876-1Ru	A00715-8 x A93575-4
AOTX95265-1Ru	A89216-9 x A86102-6
AOTX95265-3Ru	A89216-9 x A86102-6
AOTX95295-1W	A89216-9 x A86102-6
AOTX96216-2Ru	A89216-9 x A86102-6
AOTX98152-3Ru	A88338-1 X A9201-6
AOTX98202-1Ru	A9201-6 X A9014-2
ATTX01180-1R/Y	ND5084-3R x A92657-1R
ATTX05175-1R/Y	A99331-2RY X COA99261-1RY
ATTX05186-3W/Y	A99433-5Y x VC1075-1R
ATTX06246-1R	Gogu Valley x Modoc
ATTX07023-2Ru	A01754-4 EM x A0082-6 EM 500
ATTX07039-2Ru	Stampede Russet EM x AO0385-2 EM 400
ATTX07039-4Ru	Stampede russet EM x AO0385-2 EM 400
ATTX07039-6Ru	Stampede russet EM x AO0385-2 EM

Variety or Selection	Parentage
	400
ATTX07042-2W	Western russet EM x A02086-10 EM 500
ATTX07042-3W	Western russet EM x A02086-10 EM 500
ATTX07230-1Y/RE/Y	AO0286-3Y y x Modoc red 500
ATTX961014-1BR/Y	A90601-2RDY X MAZAMA
ATTX961014-1R/Y	A90601-2RDY X MAZAMA
ATTX98444-16R/Y	A83360-9R X T48YF
ATTX98453-6R	A93490-1R x A91846-5R
ATTX98462-3R/Y	ATD251-5RY X BO811-13RY
ATTX98510-1R/Y	T48YF X A93456-6R
ATX05186-2R	A99433-5Y x VC1075-1R
ATX05202-3W/Y	A00286-3Y x A99433-5Y
ATX06254-2R	A99331-2RY x Durango Red
ATX06264-4R/Y	A99331-2RY x Durango Red
ATX07305-1W/	A99433-5Y x Mila
ATX84378-6Ru	A79141-9 x ND329-1
ATX91137-1Ru	A81473-2 x A8343-12
BTX2103-1R/Y	BO811-13 x ARS-W82-21285-1
BTX2332-1R	B1523-4 x Super Red Norland
CO02024-9W	A91790-13W x CO95051-7W
CO02033-1W	A91790-13W x S440
CO02321-4W	NY115W x BC0894-2W
CO03243-3W	BC0894-2W x A91790-13
CO03276-5RU	CO95086-8RU x Blazer Russet
CO04067-8R/Y	CO97232-1R/Y x ATC98444-1R/Y
CO04099-3W/Y	VC1002-3W/Y x ATC98495-1W/Y
CO04159-1R	AC97521-1R/Y x CO99076-6R

Variety or Selection	Parentage
CO05024-11RU	Rio Grande Russet x Sage Russet
CO05037-2R/Y	AC99330-1P/Y x CO97227-2P/PW
CO05037-3W/Y	AC99330-1P/Y x CO97227-2P/PW
CO05040-1RU	Sage Russet x A96095-3
CO05061-6W	ATDC9801-3P x BC0894-2W
CO05062-2P/P	ATDC9801-3P x CO97227-2P/PW
CO05068-1RU	AWN86514-2 x CO98009-3RU
CO05110-6RU	COA96054-3 x CO98009-3RU
CO05132-2RU	Blazer Russet x CO99100-1RU
CO05149-3RU	AC96052-1RU x CO99100-1RU
CO05152-5RU	AC99375-1RU x Blazer Russet
CO05175-1RU	CO94035-15RU x AC96052-1RU
CO05189-2RU	CO97138-7RU x AC92009-4RU
CO05189-3RU	CO97138-7RU x AC92009-4RU
CO05211-4R	CO98012-5R x CO00278-4R
CO05228-4R	CO99256-2R x CO00292-9R
COTX01403-4R/Y	VC1015-7R/Y x Winema
COTX02172-1R	CO94065-2R x ND3574-5R
COTX02293-4R	CO94065-2R x ND3574-5R
COTX04015-3AW/Y	ATC98515-1R/Y x ATC98444-1R/Y
COTX04050-1P/P	CO97215-2P/P x CO97306-2P/P
COTX04193-2R/Y	ATC98515-1R/Y x ND3574-5R
COTX05082-2P/P	CO97227-2P/P x WMSG147-3
COTX05095-2Ru/Y	CO99045-1W/Y X AO96164-1
COTX07054-2R	ATDC9801-3P x CO99076-6R
COTX07382-1W/Y	Blazer Russet x Innovator
COTX07382-2W/Y	Blazer Russet x Innovator
COTX08044-1R/R	FF x KP (501) x FF x KP (501)
COTX08045-2R/R	FF x KP (501) x POR01PG22-1

Variety or Selection	Parentage
COTX08046-8P/P	FF x KP (501) x Magic Molly
COTX08056-10W/Y	French Fingerling x POR01PG22-1
COTX08121-4Ru	AC96052-1RU X Blazer Russet
COTX08258-6Ru	PA98V6-1 x Blazer russet
COTX08322-10Ru	Blazer Russet x AC96052-1RU
COTX08322-11Ru	Blazer Russet x AC96052-1RU
COTX08322-5Ru	Blazer Russet x AC96052-1RU
COTX08365-1P/P	POR01PG16-1 x CO00405-1R
COTX08365-3P/P	POR01PG16-1 x CO00405-1R
COTX08365-4R/R	POR01PG16-1 x CO00405-1R
COTX08365-5P/P	POR01PG16-1 x CO00405-1R
COTX08367-2R/R	POR01PG20-12 x CO00405-1R
COTX08376-2R/Y	US147-96 x POR01PG22-1
COTX09022-3RuRE/Y	A00286-3Y x CO99100-1RU
COTX09022-5Ru/Y	A00286-3Y x CO99100-1RU
COTX09040-1P/Y	ATTX98500-2P/Y x POR02PG26-5
COTX09042-2Ru	CO99053-3RU x CO03202-1RU
COTX09052-2Ru	CO03202-1RU x CO98067-7RU
COTX09053-1Ru	CO03202-1RU x CO99053-3RU
COTX09075-4Ru	CO03380-2RU x CO99100-1RU
COTX09075-7Ru	CO03380-2RU x CO99100-1RU
COTX09089-1Ru	94-10800-1 x COTX03308-3RU
COTX09097-2Ru	A95409-1 x CO99100-1RU
COTX09097-3Ru	A95409-1 x CO99100-1RU
COTX09101-1Ru	A96104-2 x CO03202-1RU
COTX09150-1Ru	AC00395-2RU x CO03380-2RU
COTX09182-5Ru	AO96365-2 x CO99100-1RU
COTX09196-1Ru	AO00057-2 x CO98067-7RU
COTX09323-2Ru	CO03374-4RU x CO98067-7RU

Variety or Selection	Parentage
COTX09395-1R/R	POR01PG22-1 x CO03134-4RF
NDTX050070-1R	ND 8375b-6R x ND 8347CB-12R
NDTX050184-1R/Y	ND 028577-6RY x ND 8555-8R
NDTX059759-3Pinto/Y	ATND 99331-2 Pinto x ND 7834-2P
NDTX059886-1W/Y	ND 7192-1 x ND 8178-1Y
NDTX060700C-1W	NDTX 7560C-4 x NDTX 7192-1
NDTX071109C-1W	ND 7226C-17 x ND 860-2
NDTX071217CB-1W/Y	ND 028801CB-1 x ND 039004B-2Y
NDTX071258B-1R	ND 039035B-9R x ND 4659-5R
NDTX081451CB-1W/Y	Dakota Diamond x Gala
NDTX081572B-1R	ND 4659-5R x ND 028940B-102R
NDTX081644CAB-2W	ND 8331Cb-3 X ND 028804CAB-5
NDTX081648CB-13W	ND 8456-1 xND7377CB-1
NDTX081648CB-1W	ND 8456-1 xND7377CB-1
NDTX081648CB-2W	ND 8456-1 xND7377CB-1
NDTX081648CB-4W	ND 8456-1 xND7377CB-1
NDTX091886-3P/P	COND 04082-8RR X ND 7519-1
NDTX091908AB-2W	Ebt 6-21-5 X ND 7519-1
NDTX092231C-1R	ND 049326C-2P x AND 00272-1R
NDTX092238C-1P/W	ND 049326C-2P x ND 8555-8R
NDTX092238C-3P/W	ND 049326C-2P x ND 8555-8R
NDTX092238C-4P/W	ND 049326C-2P x ND 8555-8R
NDTX092308-5R	ND 059823-4R x ND 8555-8R
NDTX092340AB-1C-1W	ND 060463C-1 x Etb 6-21-4
NDTX102461AB-4W	Ivory Crisp x ND 060421Ab-1
NDTX102462C-2W	Ivory Crisp x ND 060831C-1
NDTX102462C-6W	Ivory Crisp x ND 060831C-1
NDTX102514ABC-5W	Etb 6-5-5 x ND 060831C-6
NDTX102557-1W	ND 860-2 x King Harry

Variety or Selection	Parentage
NDTX4784-7R -	ND3574-5R x ND2050-1R
NDTX5438-11R	ND4339-10R x ND4269-9R
OR05039-4	AO95245-2 x PA00N29-3
POR06V12-3	PA00V6-4 x PA01N22-1
TX08350-12Ru	TXA549-1Ru x AC96052-1RU
TX08351-5Ru	TXA549-1Ru x AOA95154-1
TX08352-2Ru	TXA549-1Ru x AOTX98137-1Ru
TX08352-3Ru	TXA549-1Ru x AOTX98137-1Ru
TX08352-5Ru	TXA549-1Ru x AOTX98137-1Ru
TX08352-8Ru	TXA549-1Ru x AOTX98137-1Ru
TX08356-1W	NDTX4930-5W x 93-1285-6
TX08356-8W	NDTX4930-5W x 93-1285-6
TX08363-2R	CO98012-5R x BTX2332-1R
TX08375-1R	CO97222-1R/R x POR02PG26-5
TX08375-3R	CO97222-1R/R x POR02PG26-5
TX08378-3R/R	POR01PG20-12 x POR02PG26-5
TX08385-1Y/Y	COTX03025-1P/P x 93-1285-6
TX09396-1W	Atlantic x NY139
TX09403-14W	NY138 x Ivory Crisp
TX09406-1P/P	A99331-2RY x CO00405-1R
TX09406-3P/P	A99331-2RY x CO00405-1R
TX09414-1W	ATTX98500-2P/Y x Chipeta
TX09417-1R	A00286-3Y x CO00405-1R
TX09420-1R/Y	POR03PG23-1 x COTX94218-1R
TX09420-3R/Y	POR03PG23-1 x COTX94218-1R
TX09423-2R/Y	CO97215-2P/P x COTX94218-1R
TX09423-3P/P	CO97215-2P/P x COTX94218-1R
TX09429-1P/P	COTX0325-1P/P x COTX04050-1P/P
TXA549-1Ru	ND9687-3Ru x ND9852-1Ru

Variety or Selection	Parentage
TXNS410	ND9526-4Ru x ND9687-5Ru
TXYG057	W5279-4 x Norgleam
TXYG079	W5279-4 x Norgleam

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Cover by Douglas Scheuring
Edited by Jeannie Miller