

Texas Potato Breeding Report 2014



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

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College Station and Lubbock**

After receiving seed, the first step to setting the stage for planting is seed cutting. Ideal seed size is 1.5-2 oz. Tuber shape, skin color, flesh color, and general seed health are noted. Seed is then treated, bagged, and organized into plots for planting.

Table of Contents

	Page
Acknowledgements.....	iv
Mission Statement	1
Impact Statement	1
ZC Research Summary.....	2
Introduction	4
Springlake Trials, 2014.....	9
Western and Southwestern Regional Trials	12
Western and Southwestern Regional Chip Trial, Springlake	12
Western and Southwestern Regional Russet Trial, Springlake	20
Western and Southwestern Regional Red Trial, Springlake	27
Western and Southwestern Regional Red/Yellow Trial, Springlake.....	34
Western and Southwestern Regional White/Yellow Trial, Springlake	41
Southwestern Regional Purple/Purple Trial, Springlake	48
Outstanding Texas Advanced Chip Selections, 2014	55
Texas Advanced Chip Trial, Springlake	55
Outstanding Texas Advanced Russet Selections, 2014	63
Texas Advanced Russet Trial, Springlake	63
Outstanding Texas Advanced Red Selections, 2014.....	70
Texas Advanced Red Trial, Springlake.....	70
Outstanding Texas Advanced Red/Yellow Selections, 2014.....	77
Texas Advanced Red/Yellow Selection Trial, Springlake	77
Outstanding Texas Advanced White/Yellow Selections, 2014	84
Texas Advanced White/Yellow Trial, Springlake	84
Outstanding Texas Advanced Small Potato Selections, 2014.....	91
Texas Advanced Small Potato Selection Trial, Springlake	91
Outstanding Texas Advanced Fingerling Selections, 2014.....	98
Texas Advanced Fingerling Selection Trial, Springlake	98
2014 Dalhart Trials	105
Western and Southwestern Regional Chip Trial, Dalhart	108
Western Regional and Texas Advanced Russet Trial, Dalhart.....	116
Western Regional and Texas Advanced Red Trial, Dalhart	123
Western Regional and Texas Advanced Red/Yellow Trial, Dalhart	130
Western Regional and Texas Advanced White/Yellow Trial, Dalhart.....	137
Southwestern Regional and Texas Advanced Purple Flesh Selection Trial, Dalhart	144

Commercial Variety Chip Trial, Dalhart	151
Texas Advanced Chip Selection Trial, Dalhart.....	159
2013 Chip Selections Trial, Dalhart	173
Texas Advanced Russet Selection Trial, Dalhart	175
2013 Russet Selections Trial, Dalhart.....	188
Texas Advanced Red Selection Trial, Dalhart.....	190
2013 Red Selections Trial, Dalhart	197
Texas Advanced Red/Yellow Selection Trial, Dalhart.....	199
2013 Red/Yellow Selections Trial, Dalhart	206
Texas Advanced White/Yellow Selection Trial, Dalhart	208
2013 White/Yellow Selections Trial, Dalhart.....	215
Texas Advanced Small Potato Selection Trial, Dalhart.....	217
2013 Small Potato Selections Trial, Dalhart	225
Texas Advanced Fingerling Selection Trial, Dalhart.....	227
2013 Fingerling Selections Trial, Dalhart	233
Appendix A. General notes on potato varieties or selections- 2014.....	235
Appendix B. Parentage of potato varieties or selections-2014	298
Index of Varieties and Clones	310

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Prefix Source Key for Numbered Advanced Selections:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

CO = cross made and selected in Colorado

COTX = cross made in Colorado and selected in Texas

DT = cross made in North Dakota and selected in Texas

FL = cross made and selected by Frito-Lay

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

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

MN = cross made and selected in Minnesota

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

ND = cross made and selected in North Dakota

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

NDC = cross made in North Dakota and selected in Colorado

NDO = cross made in North Dakota and selected in Oregon

NDTX = cross made in North Dakota and selected in Texas

NY = cross made and selected in New York

OR = cross made and selected in Oregon

PA = cross made and selected in Prosser, Washington

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

TX = cross made and selected in Texas

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

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

TXND = cross made in Texas and selected in North Dakota

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

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

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

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

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

Mission Statement

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

Impact Statement

Since the inception of the Texas Potato Breeding and Variety Development Program in 1973, 2,427,427 seedlings have been grown for selection in Texas, from which 11,214 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 2013 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 \$130 million, with an annual economic impact to the state in is estimated to exceed \$325 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 2014 were conducted at College Station, with field cage plantings at Weslaco and Springlake.

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

In 2014, two ZC studies were reported.

We again confirmed that there is wide genetic variability among varieties/selections for ZC expression; however, no immunity was found. It appears that the mechanism contributing to cold sweetening may not be the same as that contributing to ZC. 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 Tamborindoguy (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.

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Introduction

Program Summary

The Texas Potato Breeding and Variety Development Program used two locations in the 2014 growing season (Table 1). The first planting was near Springlake on 29 March to 7 April and harvested on 28, 31 July, and 12 August. This location included fifteen replicated trials, first generation seedlings for selection, and a spacing/fertility trial with one advanced Texas selection and check variety. The second planting was near Dalhart on 13 to 17 May and harvested on 8, 22, 24, and 29 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 (ATX05142-2Ru) in the Southwestern Regional Trials conducted in Texas, Colorado, and two sites in California. The Texas Program also had three selections (NDTX5438-11R, ATTX98444S-16R/Y, and ATX05202S-3W/Y) in the Western Regional Red/ Specialty Trial. These trials were conducted at multiple locations in six western states.

The Texas Program had eleven entries (COTX09022-5RE/Y, NDTX060700C-1W, NDTX071109C-1W, NDTX081644CAB-2W, NDTX081648CB-13W, NDTX091908AB-2W, NDTX102462C-6W, NDTX102514ABC-5W, NDTX102557-1W, TX09396-1W, and TX09403-14W) in the USPB Fast-Track National Chip Processing Trial

A major focus of the program in 2014 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 17 July at Springlake, and was well attended by over 50 growers and Zebra Chip collaborators from Mexico to Canada.

Seedling program

In 2014, 92,581 first year seedling tubers, resulting from 653 different parental combination or families (crosses), were grown for selection. Some 17,237 seedling tubers were planted on the Barrett Farm near Springlake while 75,344 were planted at CSS Farm near Dalhart. Two hundred and fifty eight original selections were made from this material (Figure 1). In 2013, 69 clones were intercrossed at Lubbock to produce 116 families.

The 2014 first year seedling tubers from Texas (16,121) were grown from true seed during the fall of 2013 at College Station. These seed were from crosses made in Lubbock. The remaining seedling tubers were provided by Rich Novy, Idaho (6,811), Solomon Yilma, Oregon (37,500), David Holm, Colorado (20,390), Susie Thompson, North Dakota (9,725), and Bryan Bowen, Wisconsin (2,034).

Texas also sent second and third-size seedling tubers to Idaho (3,283), Colorado (10,186), North Dakota (3,186), and Wisconsin (3,609) for first year selections.

Table 1. Trial locations, name of trial, number of entries, and number of plots evaluated in 2014.

Springlake			Dalhart		
Trial	# of Entries	# of Plots	Trial	# of Entries	# of Plots
Field day Russets (not reported)	86	86	National Chip	194	253
Field day Red/Specialty(not reported)	96	96	Western and Southwestern Regional Chip	7	25
Western and Southwestern Regional Chip	9	36	Western and Southwestern Regional Russet	26	95
Western and Southwestern Regional Russet	30	107	Western and Southwestern Regional Red	8	29
Western and Southwestern Regional Red	11	41	Western and Southwestern Regional Red/Yellow	11	41
Western and Southwestern Regional Red/Yellow	12	45	Western and Southwestern Regional White/Yellow	11	41
Western and Southwestern Regional White/Yellow	13	51	Southwestern Regional Purple/ Purple Flesh	7	23
Southwestern Regional Purple/ Purple Flesh	6	22	Commercial Variety Chip	9	27
Texas Advanced Chip Selection	14	51	Texas Advanced Chip Selection	40	105
Texas Advanced Russet Selection	25	84	2013 Chip Selection	159	159
Texas Advanced Red Selection	10	38	Texas Advanced Russet Selection	51	175
Texas Advanced Red/Yellow Selection	3	12	2013 Russet Selection	136	136
Texas Advanced White/Yellow Selection	12	42	Texas Advanced Red Selection	9	26
Texas Advanced Small Potato Selection	18	68	2013 Red Selection	13	13
Texas Advanced Fingerling Selection	6	27	Texas Advanced Red/Yellow Selection	11	34
Sara Kammlade	5	20	2013 Red/Yellow Flesh Selection	33	33
Commercial Specialty	21	84	Texas Advanced White/Yellow Selection	15	56
Total	169	910	Texas Advanced Small Potato Selection	27	102
			2013 Small Potato Selection	87	87
			Texas Advanced Fingerling Selection	7	28
			2013 Fingerling Potato Selection	11	11
			Commercial Dehy	7	20
			Commercial Specialty	9	27
			Total	888	1546
			Total Entries and Plots	1057	2456

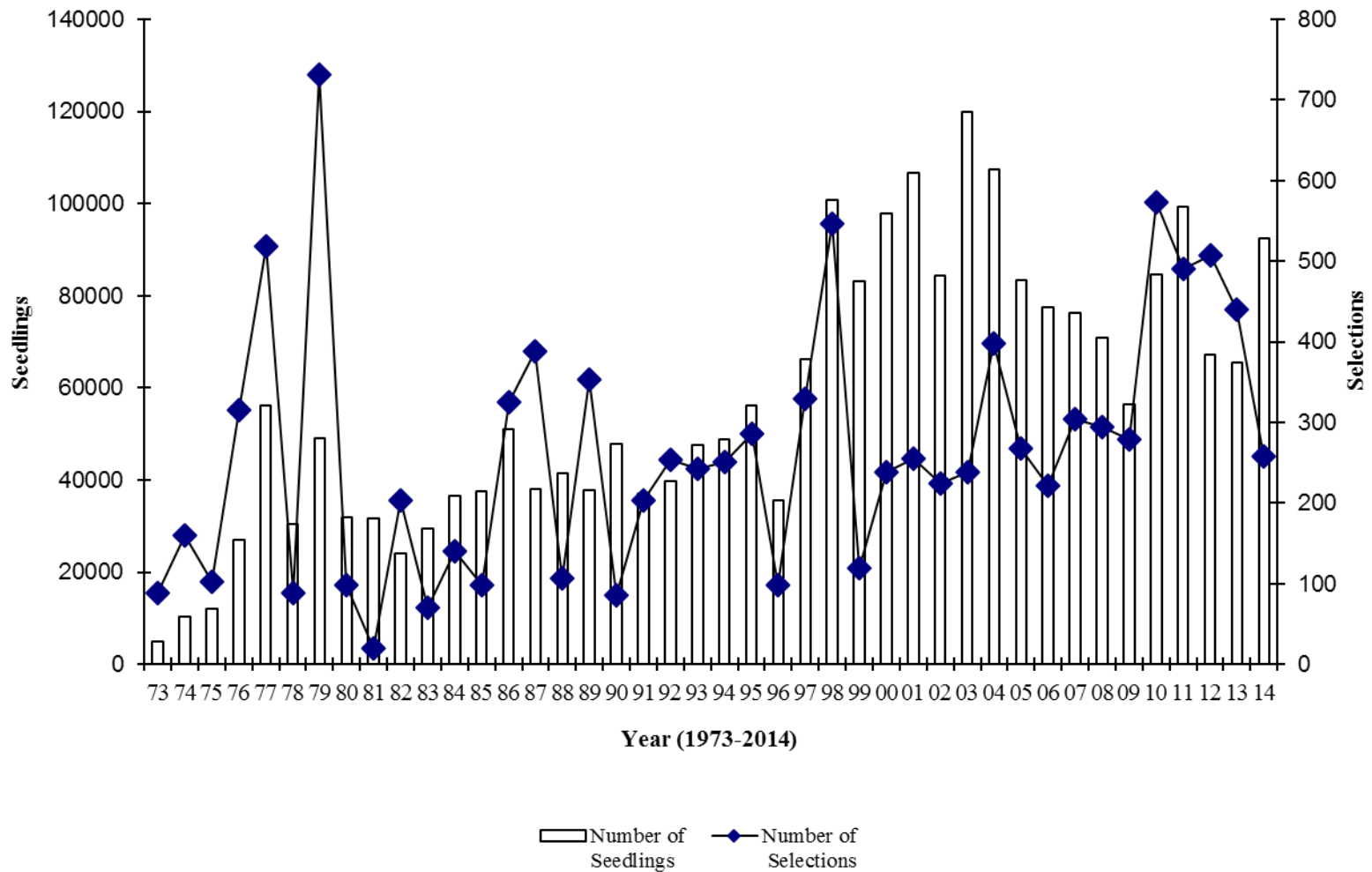


Figure. 1. Number of first year seedling tubers grown for original selection and number of selections made since the inception of the Texas Potato Variety Development Program.

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 169 advanced selections/varieties were tested in replicated and non-replicated trials near Springlake, and 888 entries were evaluated near Dalhart. A total of 2,456 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, 31,917 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.

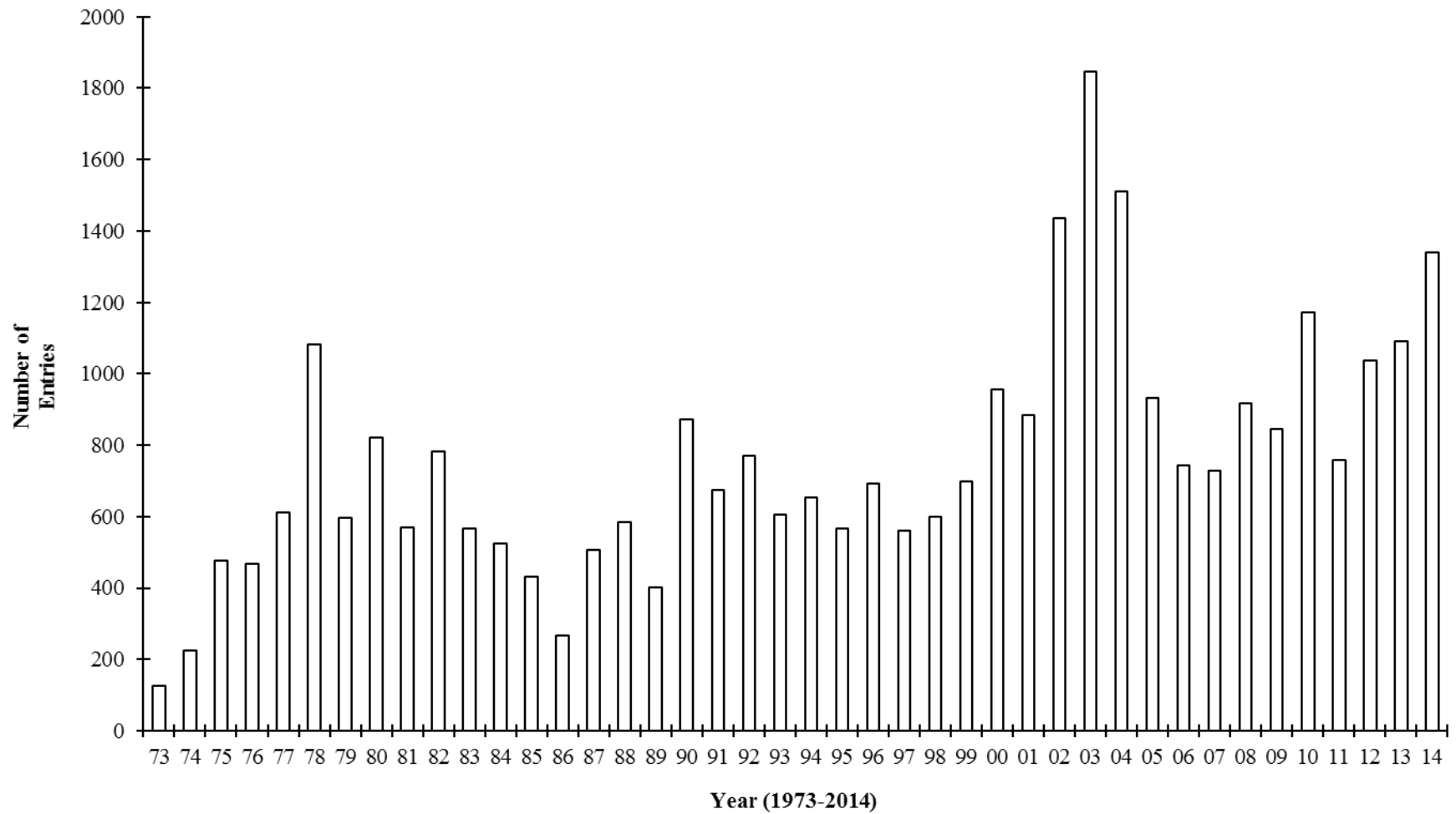


Figure 2. Number of varieties and advanced selections tested for their adaptability to Texas environmental conditions each year since the inception of the Texas Potato Variety Development Program in 1973.

Springlake Trials, 2014

Summary of growing conditions:

The trials were planted near Springlake on 29 March to 7 April and harvested on 28, 31 July, and 12 August. Standard cultural practices for the area were used (Table 2). These trials were subjected to above average precipitation for May, June, July and August. The plots were subjected to a light freeze on May 14th.

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
- Sara Kammlade Trial (not reported)
- Commercial Specialty Trial (not reported)

Table 2. Environmental and cultural inputs for the 2014 Springlake Trials.		
Location:		
Springlake, Texas		
Soil Type		
Tivoli Fine Sand		
Seed Source		
Oregon Colorado, Nebraska, Texas, North Dakota, Idaho, and Canada		
Date:		DAP
Planted	April 2, 2014	
Vines Killed (Red, Red/Yellow, Chip, White/Yellow)	July 12, 2014	100
Vines Killed (Small Potatoes)	July 23, 2014	111
Vines Killed (Russet)	July 30, 2014	118
Harvested (Red, Red/Yellow)	July 28, 2014	116
Harvested (White/Yellow, Chip, Small Potatoes)	July 31, 2014	119
Harvested (Russet)	August 12, 2014	130
Plot Information:		
Size of plots	21'	
Spacing between hills	9"	
Spacing between rows	36"	
Hills per plot	28	
Number of rows	2	
Number of reps	4	
Method of Harvest:		
Two-row drag digger, with hand pick up		
Fertilizer:		
Application:		
155-34-34# per acre		
Irrigation:		
Center Pivot		
Seed Treatment Applied:		
Cruiser Maxx		
Insecticide:		
Movento, Agrimek, Venom, Tracer, Blackhawk, Transform		
Fungicides Applied:		
Scala, Bravo, Nucop		
Herbicides Applied:		
Sencor, Roundup, Dual, Treflan, Choice		
Environmental Factors:		
These trials were subjected to above average precipitation for May, June, July and August. The plots were subjected to a light freeze on May 14th.		

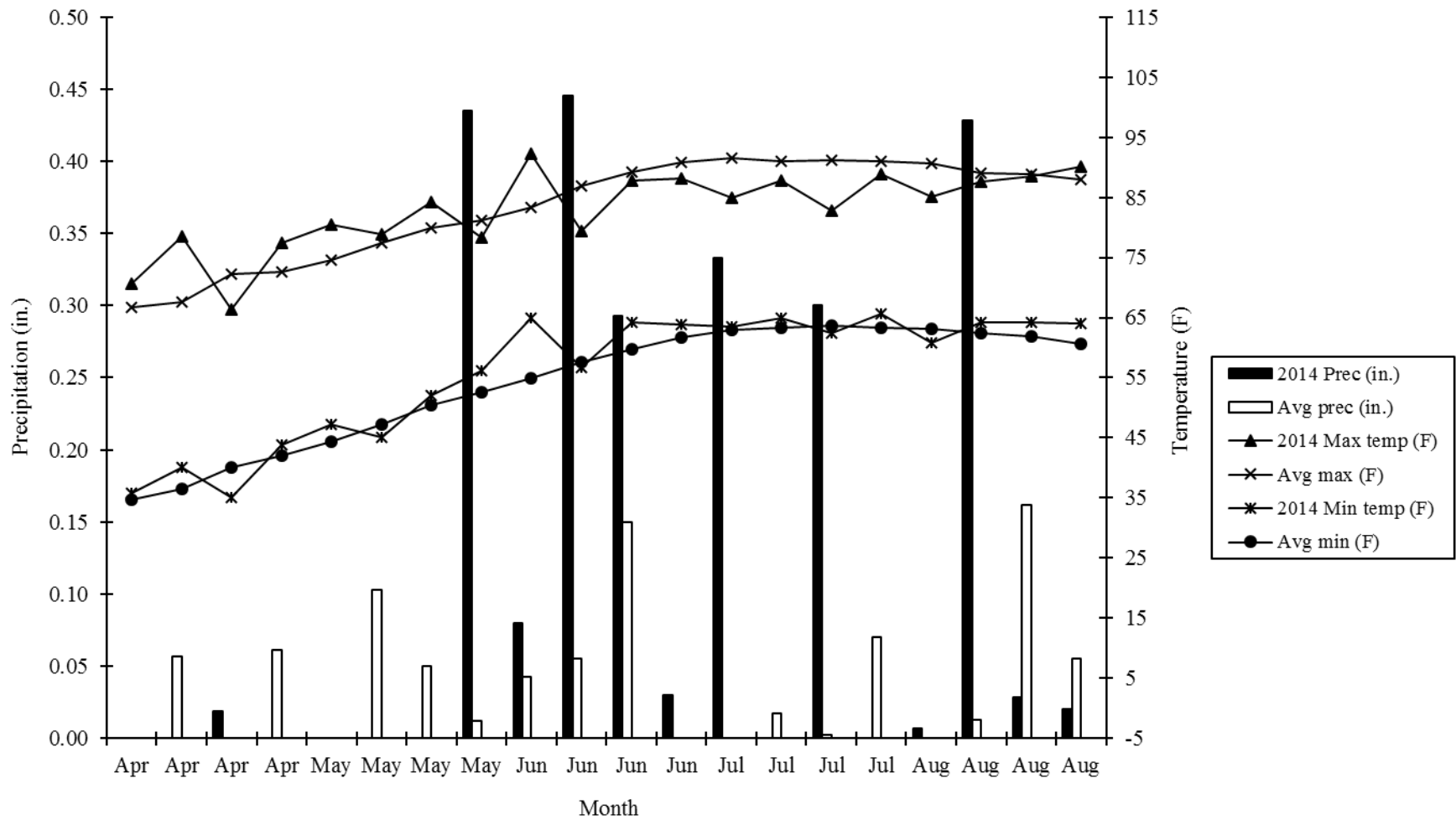


Figure 3. Weekly minimum/maximum temperatures and precipitation for the 2014 growing season near Springlake, Texas compared to the average minimum/maximum temperatures and precipitation (1949-2014).

Western and Southwestern Regional Trials

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

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

Western and Southwestern Regional Chip Trial, Springlake

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

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

- The outstanding entries for this trial, based on general rating, yield, and chip quality were AC05153-1W, AC00206-2W, and AC03452-2W.
- AC05153-1W, AC00206-2W, and AC03452-2W had the highest ratio of good chips (Tables f).
- CIT #1 had the highest total and marketable yield (Table 1a)
- AC03452-2W had the highest yield of <4 oz. tubers. (Table 1a).
- Chipeta had the highest percentage of U.S. No. 1's
- AC03452-2W had the highest percentage of < 4 oz. tubers (Table 1b).
- Atlantic had the highest specific gravity (Table 1b).
- Atlantic had 25% internal brownspot (Table 1d).

Comments on entries:

- CIT #1 Oblong White large tubers, yield+, nice shape, CR=2
- AC05153-1W Oblong White nice, smooth+, nice shape, CR=1
- AC00206-2W Oblong White light set, nice size, very nice shape, smooth, CR=1
- AC03452-2W Oblong White some poor shape, yield+, heavy set, smooth, CR=1
- Atlantic Oblong Buff poor internals, buff skin, nice shape, CR=1
- CO03243-3W Oblong White nice, buff skin, nice shape, nice size, yield+, CR=1
- Chipeta Oblong White large tubers, rough, lenticels, CR=1

- A02138-2 Oblong White pointed, too oblong, poor shape, low yield, buff skin, CR=2
- CIT #7 Long White too long, rough, poor shape, low yield, CR=2

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

Summary:

Overall, the outstanding entry based on general rating, marketable yield, and chip quality were AC05153-1W, AC00206-2W, and AC03452-2W.

Springlake
Table 1a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 9 entries in the Western and Southwestern Regional Chip Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
CIT #1	Can	318.8	240.1	135.7	91.1	13.3	0.0	75.7	3.0	na	3.8
AC05153-1W	WR	241.2	178.7	105.1	70.0	3.6	0.0	56.2	6.3	4.0	3.1
AC00206-2W	WR	234.1	176.4	88.3	76.3	11.8	0.0	57.7	0.0	3.6	3.8
AC03452-2W	WR	207.3	114.9	88.6	26.3	0.0	0.0	86.3	6.2	3.8	3.7
Atlantic	WR	202.8	125.9	90.4	33.4	2.2	0.0	76.8	0.0	4.0	3.6
CO03243-3W	WR	201.9	159.0	84.4	71.9	2.7	0.0	42.9	0.0	4.5	3.8
Chipeta	WR	161.3	135.5	71.8	62.7	1.0	0.0	21.3	4.5	3.8	3.4
A02138-2	WR	125.8	77.2	46.8	28.1	2.2	0.0	48.6	0.0	3.5	3.4
CIT #7	Can	106.4	61.8	39.7	22.1	0.0	0.0	25.9	18.7	na	3.0
Average		200.0	141.1	83.4	53.5	4.1	0.0	54.6	4.3	3.9	3.5
L.S.D. (.05)		50.5	32.4	33.1	24.7	7.6		25.1	10.0		ns

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 9 entries in the Western and Southwestern Regional Chip Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
CIT #1	Can	75.3	42.4	28.6	4.3	0.0	23.7	1.0	1.069	14.7	Oblong	White
AC05153-1W	WR	74.7	43.0	30.2	1.5	0.0	22.7	2.6	1.075	15.9	Oblong	White
AC00206-2W	WR	75.9	38.1	32.4	5.3	0.0	24.1	0.0	1.074	15.7	Oblong	White
AC03452-2W	WR	56.0	41.3	14.8	0.0	0.0	42.0	1.9	1.050	11.5	Oblong	White
Atlantic	WR	62.2	44.8	16.4	1.1	0.0	37.8	0.0	1.083	17.3	Oblong	Buff
CO03243-3W	WR	79.4	41.7	36.4	1.3	0.0	20.6	0.0	1.071	15.2	Oblong	White
Chipeta	WR	83.9	44.0	39.2	0.7	0.0	13.2	2.9	1.062	13.6	Oblong	White
A02138-2	WR	64.2	37.9	25.0	1.4	0.0	35.8	0.0	1.075	15.9	Oblong	White
CIT #7	Can	58.2	35.8	22.4	0.0	0.0	26.0	15.8	1.061	13.4	Long	White
Average		70.0	41.0	27.3	1.7	0.0	27.3	2.7	1.069	14.8		
L.S.D. (.05)		10.5	ns	12.5	3.2		10.0	5.0	0.006	1.0		

Springlake
Table 1c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 9 entries in the Western and Southwestern Regional Chip Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
CIT #1	Can	6.4	4.1	1.7	99	100	2.3	3.7	3.5	3.9	15
AC05153-1W	WR	5.1	3.9	1.8	100	100	2.3	3.3	2.6	3.4	35
AC00206-2W	WR	4.5	4.3	1.6	98	100	2.4	3.5	3.5	3.4	14
AC03452-2W	WR	5.9	2.9	1.8	96	100	2.1	3.8	3.9	3.7	0
Atlantic	WR	4.7	3.6	1.8	100	100	2.1	3.9	3.5	3.9	15
CO03243-3W	WR	3.8	4.5	1.7	96	100	1.8	3.7	3.8	3.8	5
Chipeta	WR	2.7	4.9	1.7	97	100	1.9	4.5	4.5	4.5	0
A02138-2	WR	3.0	3.5	1.8	100	100	2.0	3.5	3.3	3.6	23
CIT #7	Can	2.4	3.7	1.4	99	100	1.5	3.7	3.7	3.7	11
Average		4.3	3.9	1.7	98	100	2.0	3.7	3.6	3.8	13
L.S.D. (.05)		1.4	0.4	ns	ns	ns	0.3	0.3	0.4	0.2	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 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 9 entries in the Western and Southwestern Regional Chip Trial grown near Springlake, Texas-2014.

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
CIT #1	Can	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	13
AC05153-1W	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC00206-2W	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	3
AC03452-2W	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Atlantic	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	25
CO03243-3W	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	5
Chipeta	WR	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A02138-2	WR	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	3
CIT #7	Can	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	2.7	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	1	0	0	5

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 1e.

Notes and general rating for all reps of 9 entries in the Western and Southwestern Regional Chip Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
CIT #1	Can	, , ,	, large tubers, yield+, nice shape		3.8, 3.8, 3.8, 3.8
AC05153-1W	WR	, , , nice	, smooth+, , nice shape	4, 4, 4, 4	3.8, 0.8, 3.8, 3.8
AC00206-2W	WR	, light set, ,	nice size, very nice shape, , smooth	3.6, 3.6, 3.6, 3.6	3.8, 3.8, 3.8, 3.8
AC03452-2W	WR	, , ,	some poor shape, , yield+, heavy set, smooth	3.8, 3.8, 3.8, 3.8	3.8, 3.7, 3.8, 3.6
Atlantic	WR	, , ,	, poor internals, buff skin, nice shape, internals??,	4, 4, 4, 4	3.5, 3.6, 3.6, 3.5
CO03243-3W	WR	, , nice,	, , buff skin, nice shape, nice size, yield+	4.5, 4.5, 4.5, 4.5	3.8, 3.8, 3.8, 3.8
Chipeta	WR	, , ,	, , large tubers, rough, lenticeles	3.8, 3.8, 3.8, 3.8	3.4, 3.4, 3.4, 3.4
A02138-2	WR	pointed, , ,	too oblong, poor shape, low yield, buff skin,	3.5, 3.5, 3.5, 3.5	3.5, 3, 3.5, 3.5
CIT #7	Can	, , ,	, too long, rough, , poor shape, low yield		3, 3, 3, 3

Springlake
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 9 entries in the Western and Southwestern Regional Chip Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Gravity	% Solids	Chip Color ² at Field day	Chip Color ² at Grading	Good/Bad Chip Ratio at Field day	Good/Bad Chip Ratio at Grading	Notes ³ at Field day	Notes ³ at Grading	Percent Zebra Defect
CIT #1	Can	1.069	14.7		2		21/17		3Mech	0%
AC05153-1W	WR	1.075	15.9	1.0	1	9/1	37/3	1 vas BOT	2WW	0%
AC00206-2W	WR	1.074	15.7	2.0	1	2/8	36/6	8vas	1WW 1GH, BOT	0%
AC03452-2W	WR	1.050	11.5	1.0	1	6/4	37/2	4vas	BOT	0%
Atlantic	WR	1.083	17.3	1.0	1	0/10	29/11	10vas	1Mech	0%
CO03243-3W	WR	1.071	15.2	1.0	1	0/10	35/5	10vas	2Mech 1HH, Nice	0%
Chipeta	WR	1.062	13.6	1.0	1	2/8	18/22	8vas		0%
A02138-2	WR	1.075	15.9	1.0	2	1/9	23/16	5 vas, 4 oil center		0%
CIT #7	Can	1.061	13.4		2		28/12			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, Springlake

This trial consisted of thirty 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)

- POR06V12-3 had the highest total yield, while A06084-1TE had the highest marketable yield. A02062-1TE, ATX91137-1Ru, Russet Norkotah, and AOTX96216-2Ru received best of trial designations and high general ratings. (Table 2a and 2e).
- AOTX96216-2Ru had the highest yield of over 10 oz. tubers (Table 2a).
- POR06V12-3 had the highest yield of <4 oz. tubers. Russet Burbank had the highest yield of culls/No.2 tubers (Table 2a).
- Pacific Russet had the highest percentage of marketable yield (Table 2b).
- TXA549-1Ru (mini) had the highest percentage yield of <4 oz. tubers. Russet Burbank had the highest percentage yield of culls/No. 2 tubers (Table 2b).
- The highest specific gravity was recorded for A03921-2 (Table 2b).
- Ranger Russet, A03921-2, and A02507-2LB were the latest maturing clones. Russet Norkotah, CO03276-5RU, and CIT #3 were the earliest maturing entries (Table 2c).
- Shepody had 20% vascular discoloration. AOTX98152-3Ru had 20% internal brownspot (Table 2d).

Comments on entries:

- POR06V12-3 Oblong Russet stem attachment, drop, small, blocky
- A03158-2TE Long Russet nice shape, yield, skinny
- A06084-1TE Long Russet nice shape, rough, drop, low yield
- A02062-1TE Long Russet very nice, early, BOT-, heat sprouts, thin, nice shape, long smooth+
- Russet Norkotah296 Long Russet rough, low yield, curved, some rough
- ATX91137-1Ru Long Russet heavy set, small, BOT++
- Russet Burbank Long Russet rough, many culls, curved, rough
- CO05068-1RU Oblong Russet nice shape, smooth, heat sprouts, drop,
- CO05175-1RU Long Russet poor shape, drop++

- Ranger Russet Long Russet nice shape, smooth, long, deep eyes, skinny, rough, drop
- A03921-2 Long Russet light skin, poor yield, large, drop
- OR05039-4 Long Russet light russet, nice shape, light skin, poor skin finish, drop
- A001114-4 Long Russet blocky, small, some rough, drop
- Shepody Long White poor net
- Pacific Russet Oblong Russet blocky, ugly net, blocky, pointed, fat tubers, drop
- Russet Norkotah Long Russet very nice, small, nice shape, smooth, BOT-
- AOTX98152-3Ru Long Russet oblong and blocky, fat tubers, internal??
- AC05039-2RU Long Russet nice shape, small, ok shape
- AOTX96216-2Ru Long Russet light set, growth cracks, fast bulk, BOT-, large tubers, drop++,
- CO03276-5RU Long Russet pointed, curved, drop
- TXA549-1Ru Long Russet variable size, nice, blocky
- A06021-1T Long Russet nice, nice shape, smooth
- A02424-83LB Long Russet blocky, light skin, poor shape, drop
- TXA549-1Ru(mini) Long Russet late
- CIT #3 Long Russet skinny, small
- ATX05142-2Ru Long Russet heavy set, smooth, too blocky?, nice shape
- AO02060-3 Oblong Russet pointed, drop
- A02507-2LB Oblong Russet blocky to round, drop
- CO06057-3RU Round Russet small, low yield, , drop

Summary:

ATX91137-1Ru was the outstanding entry. A02062-1TE, Russet Norkotah, and AOTX96216-2Ru also deserve mention.

Springlake
Table 2a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 30 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
POR06V12-3	WR	146.1	80.4	42.5	30.3	7.6	0.0	60.8	4.8	3.7	3.2
A03158-2TE	WR	140.2	85.8	29.9	48.2	7.7	0.0	43.2	11.1	4.0	3.1
A06084-1TE	WR	139.2	97.2	46.3	46.7	4.2	0.0	41.5	0.4	3.6	3.3
A02062-1TE	WR	134.2	88.6	43.0	37.2	8.4	0.0	29.2	16.4	4.5	3.6
Russet Norkotah 296	TX-CO	128.7	91.1	33.9	44.4	12.8	0.0	19.9	17.7	3.0	3.6
ATX91137-1RU	TX-CO	114.5	93.0	37.3	44.4	11.3	0.0	19.8	1.7	4.0	4.7
Russet Burbank	WR	108.8	34.1	22.6	11.5	0.0	0.0	34.0	40.7	2.8	2.0
CO05068-1RU	WR	108.2	54.0	29.0	23.9	1.1	0.0	29.1	25.1	3.0	3.6
CO05175-1RU	WR	108.1	66.0	20.1	37.3	8.7	0.0	16.2	25.9	3.0	2.7
Ranger Russet	WR	104.7	71.6	24.4	37.8	9.5	0.0	11.9	21.1	3.7	2.5
A03921-2	WR	100.9	62.5	22.0	27.4	13.1	4.2	30.6	3.5	3.6	3.2
OR05039-4	WR	99.1	77.2	32.5	39.9	4.8	0.0	16.6	5.4	3.5	3.5
AO01114-4	WR	97.9	48.7	28.4	18.1	2.2	0.0	48.4	0.8	3.4	3.6
Shepody	WR	96.6	66.3	22.0	31.0	13.2	0.0	15.8	14.5	3.8	2.5
Pacific Russet	Barrett	93.8	80.6	24.4	43.7	12.4	0.0	11.4	1.8	3.0	3.0
Russet Norkotah	WR	93.3	51.7	22.6	26.8	2.2	0.0	38.2	3.5	4.5	3.7
AOTX98152-3RU	TX-CO	91.3	59.8	14.3	37.0	8.5	0.0	29.9	1.6	3.8	3.4
AC05039-2RU	SW	89.1	54.6	26.9	24.9	2.9	0.0	33.4	1.1	3.7	2.6
AOTX96216-2RU	TX-CO	78.0	58.1	9.9	20.2	28.0	0.0	4.3	15.6	3.8	2.8
CO03276-5RU	WR	73.6	33.1	18.7	14.4	0.0	0.0	36.6	3.9	2.8	3.2
TXA549-1RU	TX-CO	72.8	37.0	19.8	11.9	5.3	0.0	32.5	3.3	4.0	3.3
A06021-1T	WR	66.4	34.4	18.1	14.0	2.3	0.0	30.4	1.6	4.0	3.7
A02424-83LB	WR	64.6	27.1	15.2	10.8	1.1	0.0	32.2	5.2	2.5	2.3
TXA549-1RU(mini)	Mini	58.8	22.8	9.7	13.1	0.0	0.0	35.6	0.3	0.0	3.3
CIT #3	Can	57.6	22.6	13.7	8.9	0.0	0.0	29.1	6.0	0.0	2.6
ATX05142-2RU	SW	56.0	34.0	16.1	9.4	8.5	0.0	20.0	2.1	4.0	3.5
AO02060-3	WR	45.9	30.7	13.6	13.6	3.5	0.0	15.0	0.2	3.4	2.8
A02507-2LB	WR	39.6	22.0	11.1	10.9	0.0	0.0	10.8	6.7	2.0	3.0
CO06057-3RU	SW	36.0	17.1	9.3	7.8	0.0	0.0	18.2	0.7	3.5	3.0
ATX91137-1RU (mini)	TX-CO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Average		98.7	59.9	25.1	28.2	6.7	0.2	29.2	9.3	3.3	3.1
L.S.D. (.05)		25.8	22.0	14.2	11.8	7.6	ns	15.2	12.4	0.1	0.6

¹ 1=very poor to 5= excellent

Springlake
Table 2b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 30 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
POR06V12-3	WR	55.0	29.1	20.7	5.3	0.0	41.7	3.3	1.078	16.5	Oblong	Russet
A03158-2TE	WR	63.2	21.4	36.1	5.6	0.0	29.3	7.6	1.073	15.5	Long	Russet
A06084-1TE	WR	69.8	33.3	33.6	2.9	0.0	29.9	0.3	1.075	15.9	Long	Russet
A02062-1TE	WR	66.0	32.3	28.1	5.7	0.0	22.5	11.5	1.068	14.6	Long	Russet
Russet Norkotah 296	TX-CO	71.2	27.4	33.6	10.2	0.0	16.1	12.7	1.068	14.7	Long	Russet
ATX91137-1RU	TX-CO	80.3	31.4	38.2	10.8	0.0	17.8	1.9	1.068	14.7	Long	Russet
Russet Burbank	WR	33.2	21.9	11.3	0.0	0.0	32.2	34.6	1.071	15.1	Long	Russet
CO05068-1RU	WR	53.1	27.0	25.4	0.6	0.0	27.6	19.3	1.084	17.4	Oblong	Russet
CO05175-1RU	WR	60.8	18.5	34.3	8.1	0.0	15.0	24.2	1.073	15.6	Long	Russet
Ranger Russet	WR	68.6	22.9	36.5	9.2	0.0	11.9	19.5	1.080	16.8	Long	Russet
A03921-2	WR	61.9	20.2	27.5	14.2	3.6	31.2	3.3	1.089	18.4	Long	Russet
OR05039-4	WR	77.0	27.6	44.1	5.3	0.0	18.8	4.2	1.069	14.8	Long	Russet
AO01114-4	WR	49.7	29.0	18.5	2.3	0.0	49.5	0.8	1.074	15.7	Long	Russet
Shepody	WR	68.2	22.7	31.4	14.1	0.0	15.6	16.1	1.080	16.8	Long	White
Pacific Russet	Barrett	86.1	26.2	46.6	13.3	0.0	12.1	1.8	1.063	13.8	Oblong	Russet
Russet Norkotah	WR	56.1	24.3	29.6	2.2	0.0	40.3	3.6	1.066	14.2	Long	Russet
AOTX98152-3RU	TX-CO	69.0	15.4	46.7	6.9	0.0	29.7	1.3	1.067	14.4	Long	Russet
AC05039-2RU	SW	61.7	31.9	27.0	2.8	0.0	37.1	1.1	1.074	15.7	Long	Russet
AOTX96216-2RU	TX-CO	74.5	14.8	26.2	33.5	0.0	5.5	20.0	1.072	15.4	Long	Russet
CO03276-5RU	WR	45.0	25.4	19.5	0.0	0.0	49.7	5.3	1.064	13.9	Long	Russet
TXA549-1RU	TX-CO	52.9	28.1	20.1	4.8	0.0	44.1	3.0	1.070	14.9	Long	Russet
A06021-1T	WR	52.3	28.4	20.8	3.1	0.0	45.3	2.4	1.078	16.5	Long	Russet
A02424-83LB	WR	41.8	24.7	16.0	1.1	0.0	51.3	6.9	1.073	15.6	Long	Russet
TXA549-1RU(mini)	Mini	43.7	18.3	25.4	0.0	0.0	55.5	0.8	1.076	16.1	Long	Russet
CIT #3	Can	36.5	24.5	12.0	0.0	0.0	54.8	8.7	1.073	15.5	Long	Russet
ATX05142-2RU	SW	62.9	28.0	18.1	16.8	0.0	33.7	3.4	1.067	14.4	Oblong	Russet
AO02060-3	WR	67.2	28.9	29.8	8.6	0.0	32.5	0.3	1.072	15.3	Oblong	Russet
A02507-2LB	WR	58.0	28.1	29.9	0.0	0.0	28.8	13.2	1.072	15.3	Oblong	Russet
CO06057-3RU	SW	48.2	26.6	21.6	0.0	0.0	50.0	1.8	1.074	15.7	Round	Russet
ATX91137-1RU (mini)	TX-CO	NA	NA	NA	NA	NA	NA	NA	NA	NA	Oblong	Russet
Average		59.9	25.1	28.4	6.5	0.1	31.4	8.6	1.073	15.5		
L.S.D. (.05)		15.0	ns	12.7	8.2	ns	14.6	10.6	0.004	0.8		

Springlake
Table 2c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 30 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
POR06V12-3	WR	2.7	4.5	1.4	96	100	1.5	3.1	3.7	3.2	9
A03158-2TE	WR	2.6	4.8	1.4	91	97	1.8	3.1	3.8	3.4	19
A06084-1TE	WR	1.7	7.3	1.6	90	97	2.0	3.7	3.6	3.7	30
A02062-1TE	WR	2.5	4.8	1.4	90	96	1.8	3.2	3.3	3.3	44
Russet Norkotah 296	TX-CO	2.0	5.4	1.6	98	100	1.8	3.7	3.6	3.7	23
ATX91137-1RU	TX-CO	1.7	5.4	1.3	96	100	1.8	3.5	3.5	3.6	36
Russet Burbank	WR	2.5	3.7	1.6	100	100	2.3	3.8	3.7	3.9	23
CO05068-1RU	WR	2.0	4.5	1.4	100	100	2.0	3.7	3.8	3.8	11
CO05175-1RU	WR	1.5	5.9	1.3	92	100	2.0	3.8	4.1	3.8	10
Ranger Russet	WR	1.4	6.3	1.6	100	100	1.9	3.5	4.1	3.6	9
A03921-2	WR	1.8	5.2	1.2	88	91	1.8	3.6	3.9	3.7	23
OR05039-4	WR	1.6	5.1	1.6	100	100	1.9	3.7	3.5	3.8	23
AO01114-4	WR	2.2	3.7	1.8	92	98	1.9	3.8	3.3	3.9	40
Shepody	WR	1.4	5.8	1.3	98	100	2.0	3.7	3.7	3.6	20
Pacific Russet	Barrett	1.3	6.2	1.6	96	100	2.0	3.7	2.9	3.7	64
Russet Norkotah	WR	1.8	4.2	1.8	92	100	1.9	3.7	2.1	3.7	76
AOTX98152-3RU	TX-CO	1.6	4.9	1.4	86	96	2.5	3.7	3.3	3.8	33
AC05039-2RU	SW	1.9	4.1	1.6	92	96	2.1	3.4	2.8	3.6	58
AOTX96216-2RU	TX-CO	0.8	8.4	1.1	91	95	1.8	3.8	3.6	3.7	13
CO03276-5RU	WR	1.8	3.4	1.7	86	98	2.2	3.8	2.5	3.8	71
TXA549-1RU	TX-CO	1.7	3.7	1.8	81	90	2.3	3.1	3.2	3.2	53
A06021-1T	WR	1.4	4.0	1.4	86	100	2.0	3.4	3.1	3.5	45
A02424-83LB	WR	1.5	3.5	1.9	97	98	1.8	3.8	3.9	3.8	18
TXA549-1RU(mini)	Mini	1.5	3.5	1.1	96	100	1.5	3.0	3.6	2.8	15
CIT #3	Can	1.4	3.3	1.4	93	100	2.5	3.5	8.0	3.7	74
ATX05142-2RU	SW	1.0	4.7	1.3	98	100	2.0	3.7	3.5	3.6	20
AO02060-3	WR	0.9	4.2	1.5	100	100	2.0	3.6	2.8	3.6	66
A02507-2LB	WR	0.8	4.5	1.2	90	92	2.0	2.7	4.1	2.9	8
CO06057-3RU	SW	1.0	3.2	1.7	86	96	2.0	3.5	3.2	3.6	50
ATX91137-1RU (mini)	TX-CO	NA	NA	NA	0	18	1.0	1.0	4.3	1.0	0
Average		1.8	4.9	1.5	93	98	1.9	3.5	3.6	3.6	33
L.S.D. (.05)		0.5	0.9	0.3	ns	6	0.3	0.4	ns	0.4	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

Springlake
Table 2d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 30 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2014.

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
POR06V12-3	WR	1.0	2.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
A03158-2TE	WR	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
A06084-1TE	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A02062-1TE	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah 296	TX-CO	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX91137-1RU	TX-CO	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 Burbank	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05068-1RU	WR	1.0	3.0	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05175-1RU	WR	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Ranger Russet	WR	1.0	4.0	4.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A03921-2	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	3
OR05039-4	WR	1.0	4.0	3.0	3.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AO01114-4	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Shepody	WR	1.0	4.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	20	0
Pacific Russet	Barrett	1.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah	WR	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX98152-3RU	TX-CO	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	20
AC05039-2RU	SW	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX96216-2RU	TX-CO	1.0	4.0	4.0	4.0	4.0	3.0	5.0	5.0	5.0	5.0	5	0	0	0
CO03276-5RU	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
TXA549-1RU	TX-CO	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A06021-1T	WR	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	3
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	8	0
TXA549-1RU(mini)	Mini	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
CIT #3	Can	1.0	4.0	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05142-2RU	SW	1.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AO02060-3	WR	1.0	3.0	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	2.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	3
CO06057-3RU	SW	1.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX91137-1RU (mini)	TX-CO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Average		1.0	3.6	3.8	3.9	3.8	4.9	5.0	5.0	5.0	5.0	1	0	1	1

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 2c.

Notes and general rating for all reps of 30 entries in the Western and Southwestern Regional Russet Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
POR06V12-3	WR	, , stem attachment, drop,	, , small, blocky,	3.7, 3.7, 3.7, 3.7	3.4, 3.3, 3, 3
A03158-2TE	WR	, , , nice shape	yield, skinny, , ,	4, 4, 4, 4	3.3, 3.4, 2.5, 3
A06084-1TE	WR	, nice shape, ,	, rough, drop, low yield,	3.6, 3.6, 3.6, 3.6	3.6, 2.7, 3.2, 3.5
A02062-1TE	WR	, , very nice, early, BOT-	heat sprouts, thin, nice shape, long, smooth+, ,	4.5, 4.5, 4.5, 4.5	2.5, 4.3, 3.8, 3.8
Russet Norkotah 296	TX-CO	, , , rough	, , low yield, curved, some rough	3, 3, 3, 3	3.2, 3.8, 4, 3.5
ATX91137-1RU	TX-CO	heavy set, small, bot-, , ,	, , BOT++,	4, 4, 4, 4	4.5, 4.8, 4.5, 4.8
Russet Burbank	WR	, , , rough	, , many culls, curved, rough	2.8, 2.8, 2.8, 2.8	1.5, 2.5, 2, 2
CO05068-1RU	WR	, , drop,	, nice shape, smooth, heat sprouts, drop,	3, 3, 3, 3	3.8, 4.3, 3, 3.2
CO05175-1RU	WR	, drop, ,	, poor shape, drop++ , ,	3, 3, 3, 3	2.5, 2.7, 3, 2.7
Ranger Russet	WR	, nice shape, smooth, ,	long, deep eyes, drop, skinny, rough, ,	3.7, 3.7, 3.7, 3.7	2.5, 2.5, 2.5, 2.5
A03921-2	WR	, , , light skin, drop	, , , poor yield, large	3.6, 3.6, 3.6, 3.6	4, 3.2, 3.2, 2.3
OR05039-4	WR	, , , light russet, nice shape, drop	, , light skin, drop, poor skin finish	3.5, 3.5, 3.5, 3.5	3.4, 3.4, 3.3, 3.7
AO01114-4	WR	blocky, drop, , ,	, , small, drop, some rough	3.4, 3.4, 3.4, 3.4	3.2, 3.8, 3.6, 3.6
Shepody	WR	white skin, , ,	poor net, , ,	3.8, 3.8, 3.8, 3.8	2.5, 2.56, 2.5, 2.5
Pacific Russet	Barrett	, blocky, ,	, ugly net, , blocky, pointed, fat tubers, drop	3, 3, 3, 3	3, 3, 3, 3
Russet Norkotah	WR	, , , very nice, BOT-	, , , small, nice shape, smooth	4.5, 4.5, 4.5, 4.5	3.5, 4.2, 3.3, 3.8
AOTX98152-3RU	TX-CO	blocky, blocky, ,	oblong and blocky, fat tubers, internal??, oblong and blocky, fat tubers, internal??, ,	3.8, 3.8, 3.8, 3.8	3.4, 3.4, 3.4, 3.4
AC05039-2RU	SW	, , , nice shape, small	ok shape, , ,	3.7, 3.7, 3.7, 3.7	3.5, 3.2, 3.7, 0
AOTX96216-2RU	TX-CO	, , light set, growth cracks, fast bulk, BOT-, light set, growth cracks, fast bulk, BOT-	large tubers, large tubers, growth cracks, drop++, growth cracks, drop++	3.8, 3.8, 3.8, 3.8	3, 3, 2.5, 2.5
CO03276-5RU	WR	pointed, drop, , ,	curved, , ,	2.8, 2.8, 2.8, 2.8	3.2, 3.2, 3.4, 3
TXA549-1RU	TX-CO	, , variable size, nice,	, , blocky, ,	4, 4, 4, 4	3.3, 3.3, 3.3, 3.3
A06021-1T	WR	nice, , ,	nice shape, smooth, nice, ,	4, 4, 4, 4	3.5, 3.3, 3.9, 3.9
A02424-83LB	WR	, blocky, drop, ,	light skin, , , poor shape, drop	2.5, 2.5, 2.5, 2.5	2, 2, 2.5, 2.5
TXA549-1RU(mini)	Mini	, , ,	late, , ,	0, 0, 0, 0	3.3, 3.3, 3.3, 3.3
CIT #3	Can	, , ,	, , skinny, small,	0, 0, 0, 0	3, 2.5, 2.5, 2.5
ATX05142-2RU	SW	, , heavy set, smooth,	too blocky?, smooth, nice shape, , ,	4, 4, 4, 4	3.3, 3.5, 3.6, 3.5
AO02060-3	WR	, , , pointed, drop	, , , drop	3.4, 3.4, 3.4, 3.4	3, 2.5, 3, 2.5
A02507-2LB	WR	, , , blocky, drop	, drop, blocky to round,	2, 2, 2, 2	3, 3, 3, 3
CO06057-3RU	SW	, , small, drop, small, drop	, , low yield,	3.5, 3.5, 3.5, 3.5	3, 3, 3, 3
ATX91137-1RU (mini)	TX-CO	, , ,	, , ,	0, 0, 0, 0	0, 0, 0, 0

Western and Southwestern Regional Red Trial, Springlake

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

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

- BTX2332-1R, Modoc, NDA050237B-1R, ATTX98453-6R (mini), and NDTX5438-11R had the highest general ratings and best of trial designations, (Table 3a and Table 3e).
- Red LaSoda had the highest total and marketable yield (Table 3a).
- Red LaSoda had the highest yield of over 10 oz. tubers. Modoc had the highest yield of < 4 oz. tubers (Table 3a).
- Chieftain had the highest percentage of marketable yield, while Red LaSoda the highest percentage of over 10 oz. tubers. CO05228-4R had the highest percent of <4 oz. tubers. (Table 3b).
- Modoc had the highest average number of tubers per plant. Red LaSoda, CIT #4, NDA050237B-1R, and ATTX98453-6R (mini) were the latest maturing, while Modoc and CO05228-4R were the earliest (Table 3c).
- Red LaSoda had the deepest eyes, while Chieftain and CIT #2 high percentages of internal brownspot (Table 3d).

Comments on entries:

- | | | |
|-----------------------|------------|--|
| • Red LaSoda | Oblong Red | nice, yield+, rough, deep eyes, nice yield |
| • BTX2332-1R | Oblong Red | nice, uniform, yield+, very nice, internal?? , BOT++ |
| • Chieftain | Oblong Red | nice, deep eyes, light skin |
| • CIT #4 | Oblong Red | very light skin, oblong, nice flesh, |
| • Modoc | Oblong Red | nice red color, heavy set, nice skin and flesh, very oblong, BOT |
| • CIT #2 | Oblong Red | light skin, poor internals, light skin, nice yellow flesh, |
| • NDA050237B-1R | Oblong Red | very nice skin and flesh, very dark skin, BOT- |
| • ATTX98453-6R (mini) | Oblong Red | very nice, light set, nice shape, BOT- |
| • NDTX5438-11R | Round Red | nice dark skin, nice shape, deep eyes, low yield, tuber moth, BOT- |

- CO05228-4R Oblong Red small potato, uniform, nice skin, light set, nice shape, smooth
- ATTX98453-6R Oblong Red virus, light set

Summary:

BTX2332-1R, Modoc, NDA050237B-1R, ATTX98453-6R (mini), and NDTX5438-11R were the outstanding entries based on general ratings and best of trial designations.

Springlake
Table 3a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 11 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
Red LaSoda	WR	298.0	249.9	135.3	87.9	26.7	0.0	48.1	0.0	4.0	3.4
BTX2332-1R	TX-CO	240.5	202.4	127.3	67.3	7.8	0.0	38.1	0.0	4.0	4.3
Chieftan	WR	236.0	203.8	128.7	74.1	1.0	0.0	32.2	0.0	3.8	3.4
CIT #4	Can	223.2	174.2	111.1	56.7	6.3	0.0	49.1	0.0	3.2	3.2
Modoc	Barrett	169.3	113.5	74.0	29.0	10.5	0.0	55.8	0.0	4.0	3.7
CIT #2	Can	167.4	126.7	85.6	38.7	2.4	0.0	40.7	0.0	3.5	3.4
NDA050237B-1R	WR	155.4	109.1	81.3	27.7	0.0	0.0	46.3	0.0	3.5	3.7
ATTX98453-6R (mini)	TX-CO	150.3	119.4	76.7	39.0	3.7	0.0	30.9	0.0	NA	4.0
NDTX5438-11R	WR	90.9	56.8	44.1	12.7	0.0	0.0	34.1	0.0	4.0	3.5
CO05228-4R	WR	86.9	31.0	27.1	3.9	0.0	0.0	55.9	0.0	3.5	3.4
ATTX98453-6R	TX-CO	49.4	36.3	13.8	22.5	0.0	0.0	13.1	0.0	3.0	3.5
Average		169.8	129.4	82.3	41.8	5.3	0.0	40.4	0.0		3.6
L.S.D. (.05)		35.1	30.5	32.7	21.9	7.2		23.5		0.1	0.3

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 11 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Red LaSoda	WR	84.1	46.3	29.0	8.8	0.0	15.9	0.0	1.061	13.4	Oblong	Red
BTX2332-1R	TX-CO	83.7	51.4	29.1	3.2	0.0	16.3	0.0	1.059	13.0	Oblong	Red
Chieftan	WR	86.6	54.3	31.8	0.5	0.0	13.4	0.0	1.064	13.8	Oblong	Red
CIT #4	Can	77.9	48.7	26.4	2.8	0.0	22.1	0.0	1.061	13.3	Oblong	Red
Modoc	Barrett	67.2	44.8	16.6	5.9	0.0	32.8	0.0	1.059	13.0	Oblong	Red
CIT #2	Can	75.0	50.5	23.5	1.1	0.0	25.0	0.0	1.071	15.2	Oblong	Red
NDA050237B-1R	WR	68.9	51.0	17.9	0.0	0.0	31.1	0.0	1.052	11.7	Oblong	Red
ATTX98453-6R (mini)	TX-CO	79.8	51.5	26.0	2.3	0.0	20.2	0.0	1.063	13.8	Oblong	Red
NDTX5438-11R	WR	64.2	49.6	14.5	0.0	0.0	35.8	0.0	1.058	12.8	Round	Red
CO05228-4R	WR	38.4	34.4	4.0	0.0	0.0	61.6	0.0	1.063	13.7	Oblong	Red
ATTX98453-6R	TX-CO	73.4	28.0	45.5	0.0	0.0	26.6	0.0	1.065	14.1	Oblong	Red
Average		72.7	46.4	24.0	2.2	0.0	27.3	0.0	1.061	13.5		
L.S.D. (.05)		12.3	13.1	13.0	3.2		12.3		0.003	0.5		

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 11 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
Red LaSoda	WR	5.2	4.7	2.1	100	100	2.0	3.9	4.0	3.9	10
BTX2332-1R	TX-CO	4.5	4.4	1.8	100	100	1.6	3.8	3.8	3.8	19
Chieftan	WR	4.4	4.4	2.0	100	100	1.6	3.8	3.4	3.8	34
CIT #4	Can	4.9	3.8	1.7	100	100	1.6	3.7	4.3	3.7	4
Modoc	Barrett	5.5	3.5	1.5	66	76	2.5	3.6	3.3	3.5	43
CIT #2	Can	3.5	4.2	1.7	91	96	1.9	3.5	3.2	3.5	46
NDA050237B-1R	WR	3.9	3.2	2.2	100	100	1.5	4.0	4.4	4.0	0
ATTX98453-6R (mini)	TX-CO	2.8	4.4	1.4	100	100	2.0	2.6	4.3	2.7	0
NDTX5438-11R	WR	2.4	3.6	1.4	82	94	1.5	3.4	3.4	3.5	24
CO05228-4R	WR	4.6	2.2	1.7	59	68	2.4	3.5	3.2	3.6	44
ATTX98453-6R	TX-CO	1.3	3.2	1.6	96	100	2.0	3.0	3.8	3.0	20
Average		3.9	3.8	1.7	90	94	1.9	3.5	3.7	3.5	22
L.S.D. (.05)		1.3	0.4	0.3	12	10	0.3	0.2	0.3	0.3	9

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 russetting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 11 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2014.

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
Red LaSoda	WR	1.0	3.0	1.0	2.0	3.4	5.0	5.0	5.0	5.0	5.0	8	0	0	0
BTX2332-1R	TX-CO	1.0	2.5	1.0	4.0	3.9	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Chieftan	WR	1.0	2.5	1.0	3.7	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	15
CIT #4	Can	1.0	2.5	1.0	4.0	2.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Modoc	Barrett	1.0	2.5	1.0	4.0	3.9	5.0	5.0	5.0	5.0	5.0	0	0	0	3
CIT #2	Can	2.0	2.5	1.0	4.0	2.8	5.0	5.0	5.0	5.0	5.0	0	0	0	18
NDA050237B-1R	WR	1.0	2.6	1.0	4.0	4.1	5.0	5.0	5.0	5.0	5.0	0	0	0	3
ATTX98453-6R (mini)	TX-CO	1.0	2.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX5438-11R	WR	1.0	2.4	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05228-4R	WR	1.0	2.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98453-6R	TX-CO	1.0	2.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.1	2.5	1.0	3.8	3.6	5.0	5.0	5.0	5.0	5.0	1	0	0	3

¹ 1=light to 5=dark

² 1 to 5=none

² 1=round to 5=long

⁷ 1 to 5=none

³ 1=none to 5=heavy

⁸ 1 to 5=none

⁴ 1=deep to 5=shallow

⁹ 1 to 5=none

⁵ 1=light to 5=dark

¹⁰ 1 to 5=none

¹¹ Stem end vascular discoloration severely evaluated

Springlake
Table 3e.

Notes and general rating for all reps of 11 entries in the Western and Southwestern Regional Red Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
Red LaSoda	WR	nice, , ,	, yield+, rough, , deep eyes, nice yield	4, 4, 4, 4	3, 3.5, 3.5, 3.5
BTX2332-1R	TX-CO	nice, BOT, , ,	BOT++, uniform, yield+, , uniform, very nice, internal??	4, 4, 4, 4	4.4, 4.2, 4.5, 4
Chieftan	WR	nice, , ,	, , , deep eyes, light skin	3.8, 3.8, 3.8, 3.8	3.3, 3.3, 3.7, 3.3
CIT #4	Can	very light skin, , ,	, , very light skin, oblong, nice flesh,	3.2, 3.2, 3.2, 3.2	3, 3.3, 3, 3.3
Modoc	Barrett	nice red color, BOT, heavy set, , ,	nice skin and flesh, nice, very oblong, , light set	4, 4, 4, 4	3.7, 3.7, 3.8, 3.5
CIT #2	Can	light skin, , ,	poor internals, , light skin, nice yellow flesh,	3.5, 3.5, 3.5, 3.5	3.3, 3.5, 3.4, 3.3
NDA050237B-1R	WR	nice skin, , ,	very nice skin and flesh, BOT-, very dark skin, ,	3.5, 3.5, 3.5, 3.5	4, 3.8, 3.5, 3.5
ATX98453-6R (mini)	TX-CO	, , ,	very nice, BOT, very nice, BOT-, light set, nice shape	NA	4.2, 4, 4, 3.8
NDTX5438-11R	WR	nice dark skin, BOT-, , ,	nice shape, , deep eyes, low yield, tuber moth	4, 4, 4, 4	3.8, 3.5, 3.5, 3.3
CO05228-4R	WR	small potato, , ,	uniform, nice skin, , light set, nice shape, small, smooth	3.5, 3.5, 3.5, 3.5	3.8, 3.3, 3.5, 3
ATX98453-6R	TX-CO	virus, , ,	light set, , ,	3, 3, 3, 3	3.5, 3.5, 3.5, 3.5

Western and Southwestern Regional Red/Yellow Trial, Springlake

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

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

- ATTX98444S-16R/Y, ATTX01180-1R/Y, and AC05175-3P/Y received high general ratings and best of trial designations (Table 4a and 4f).
- COTX01403-4R/Y had the highest total and marketable yield (Table 4a).
- ATTX98444S-16R/Y had the highest yield of <4 oz. tubers (Table 4a).
- COTX01403-4R/Y had the highest percentage of marketable yield. ATTX98444S-16R/Y had the highest percentage of <4 oz. tubers (Table 4b).
- ATTX98444S-16R/Y had the highest average number of tubers per plant (Table 4c).
- A05180-3PY and ATTX98514-1R/Y were the latest in maturity, while COTX01403-4R/Y and ATTX961014-1BR/Y were the earliest in maturity (Table 4c).
- ATTX01180-1R/Y and AC05175-3P/Y had the darkest yellow flesh color (Table 4d).
- ATTX98514-1R/Y had 28% hollow heart (Table 4d).

Comments on entries:

- COTX01403-4R/Y Oblong Red early bulk, light set, nice shape, some hollow heart, light skin and flesh, nice shape, good skin set, drop, FC=3
- A05180-3PY Round Purple nice skin and flesh, stolon attachment, some feathering, light flesh, nice skin, rough, deeper eyes, stem attachment, FC=2
- ATTX98514-1R/Y Oblong Red light skin, nice flesh, poor internals, hollow heart++, light skin, good skin set, nice shape, drop for internals, FC=3
- ATTX98444S-16R/Y Round Red small, all B's or smaller, heavy set, smooth, nice size, BOT for small potato, FC=3
- ATTX01180-1R/Y Oblong Red nice, more smalls, some feathering, yield+, heavy set, nice flesh, some feathering, variable size, BOT- for R/Y, FC=3.4
- AC05175-3P/Y Round Purple small, nice size, good skin set, smooth, nice flesh and skin, stem attachment, BOT for P/Y, FC=3.5

- CO04067-8R/Y Oblong Red nice flesh, small, good skin set, light skin, nice flesh, poor shape, better shape, FC=3
- Sierra Rose Oblong Red very nice skin and flesh, light skin color, nice shape, good skin set, light flesh, smooth, FC=3
- BTX2103-1R/Y Oblong Red variable shape, lots of B's, deeper eyes, road map, small, poor shape, light flesh, good skin set, FC=2.5
- CO05037-2R/Y Oblong Red heavy set, pointed, nice flesh, too small, too oblong, poor shape+, drop, FC=3
- ATTX961014-1BR/Y Oblong Red pointed, smooth, good skin set, light skin and flesh, drop, FC=2.8

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

Summary:

ATTX98444S-16R/Y, ATTX01180-1R/Y, and AC05175-3P/Y were the best entries based on all factors.

Springlake
Table 4a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 12 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
COTX01403-4R/Y	TX-CO	232.1	198.8	119.6	62.8	16.3	0.0	33.4	0.0	3.3	3.8
A05180-3PY	WR	210.9	79.6	70.2	9.4	0.0	0.0	131.3	0.0	4.2	3.5
ATTX98514-1R/Y	TX-CO	195.8	135.5	107.0	28.5	0.0	0.0	60.3	0.0	3.3	3.0
ATTX98444S-16R/Y	WR	189.3	21.2	21.2	0.0	0.0	0.0	168.1	0.0	3.3	4.0
ATTX01180-1R/Y	TX-CO	181.2	122.3	77.9	38.2	6.2	0.0	58.9	0.0	4.2	3.7
AC05175-3P/Y	WR	165.9	93.6	80.5	12.1	1.0	0.0	72.3	0.0	4.0	4.0
CO04067-8R/Y	WR	158.7	70.5	62.5	8.0	0.0	0.0	88.2	0.0	3.5	3.5
Sierra Rose	TX ADV	155.7	95.1	72.6	22.5	0.0	0.0	60.7	0.0	4.0	3.7
BTX2103-1R/Y	TX-CO	143.6	78.5	58.3	18.8	1.4	0.0	65.1	0.0	3.5	3.5
CO05037-2R/Y	WR	126.4	23.5	23.5	0.0	0.0	0.0	102.9	0.0	3.3	2.5
ATTX961014-1BR/Y	TX-CO	109.3	80.6	60.5	18.8	1.2	0.0	28.8	0.0	3.2	3.7
Klondike Rose	TX ADV	87.5	71.7	38.0	33.7	0.0	0.0	9.3	6.4	3.5	2.0
Average		163.0	89.2	66.0	21.1	2.2	0.0	73.3	0.5	3.6	3.4
L.S.D. (.05)		23.1	22.8	18.2	12.8	3.4		20.5	3.1	0.1	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 12 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
COTX01403-4R/Y	TX-CO	85.4	51.5	26.8	7.1	0.0	14.6	0.0	1.059	13.0	Oblong	Red
A05180-3PY	WR	37.4	32.9	4.5	0.0	0.0	62.6	0.0	1.058	12.9	Round	Purple
ATTX98514-1R/Y	TX-CO	68.9	54.3	14.5	0.0	0.0	31.1	0.0	1.058	12.9	Oblong	Red
ATTX98444S-16R/Y	WR	11.1	11.1	0.0	0.0	0.0	88.9	0.0	1.074	15.7	Round	Red
ATTX01180-1R/Y	TX-CO	67.8	42.5	21.4	3.9	0.0	32.2	0.0	1.065	14.1	Oblong	Red
AC05175-3P/Y	WR	55.6	48.4	6.6	0.5	0.0	44.4	0.0	1.065	14.1	Round	Purple
CO04067-8R/Y	WR	45.2	40.3	4.9	0.0	0.0	54.8	0.0	1.064	13.9	Oblong	Red
Sierra Rose	TX ADV	60.6	46.6	14.1	0.0	0.0	39.4	0.0	1.063	13.8	Oblong	Red
BTX2103-1R/Y	TX-CO	55.3	40.7	13.5	1.0	0.0	44.7	0.0	1.064	14.0	Oblong	Red
CO05037-2R/Y	WR	18.7	18.7	0.0	0.0	0.0	81.3	0.0	1.070	15.0	Oblong	Red
ATTX961014-1BR/Y	TX-CO	73.9	55.3	17.2	1.4	0.0	26.1	0.0	1.064	13.9	Oblong	Red
Klondike Rose	TX ADV	84.2	43.2	41.0	0.0	0.0	10.8	5.0	1.067	14.4	Oblong	Red
Average		55.4	40.5	13.7	1.2	0.0	44.2	0.4	1.064	14.0		
L.S.D. (.05)		9.8	8.5	6.2	2.4		9.5	2.4	0.003	0.7		

Springlake
Table 4c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 12 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
COTX01403-4R/Y	TX-CO	4.2	4.5	2.2	100	100	1.8	3.8	2.5	3.7	59
A05180-3PY	WR	7.4	2.4	1.8	100	100	1.5	4.0	4.5	3.9	0
ATTX98514-1R/Y	TX-CO	5.0	3.3	1.7	100	100	2.1	3.7	4.1	3.8	4
ATTX98444S-16R/Y	WR	10.6	1.5	2.1	100	100	1.8	4.0	3.8	4.1	18
ATTX01180-1R/Y	TX-CO	5.0	3.1	1.4	79	97	2.1	3.6	3.0	3.6	35
AC05175-3P/Y	WR	4.8	2.8	1.8	100	100	1.9	3.1	2.3	3.4	61
CO04067-8R/Y	WR	5.7	2.3	1.7	96	100	1.8	3.7	3.2	3.7	34
Sierra Rose	TX ADV	4.7	2.7	1.5	87	100	2.1	3.9	3.3	4.2	34
BTX2103-1R/Y	TX-CO	4.7	2.5	1.9	100	100	2.2	4.0	3.5	4.2	21
CO05037-2R/Y	WR	7.0	1.5	1.7	100	100	1.5	3.4	3.6	3.6	11
ATTX961014-1BR/Y	TX-CO	2.8	3.2	1.5	95	100	2.4	3.2	2.1	3.4	66
Klondike Rose	TX ADV	3.9	4.6	1.5	30	38	2.3	3.4	3.7	3.4	18
Average		5.5	2.9	1.7	91	95	1.9	3.6	3.3	3.7	30
L.S.D. (.05)		1.1	0.4	0.3	10	5	0.3	0.2	0.3	0.2	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 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 12 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2014.

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
COTX01403-4R/Y	TX-CO	3.0	2.5	1.0	3.5	3.5	5.0	5.0	5.0	5.0	5.0	10	0	0	0
A05180-3PY	WR	2.0	2.0	1.0	3.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98514-1R/Y	TX-CO	3.0	2.5	1.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	28	0	0	0
ATTX98444S-16R/Y	WR	3.0	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX01180-1R/Y	TX-CO	3.4	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC05175-3P/Y	WR	3.5	2.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO04067-8R/Y	WR	3.0	2.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Sierra Rose	TX ADV	3.0	3.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX2103-1R/Y	TX-CO	2.5	2.5	1.0	3.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05037-2R/Y	WR	3.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX961014-1BR/Y	TX-CO	2.8	2.8	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Klondike Rose	TX ADV	3.0	3.0	1.0	3.8	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.9	2.6	1.0	3.8	3.7	5.0	5.0	5.0	5.0	5.0	3	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 4e.

Notes and general rating for all reps of 12 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
COTX01403-4R/Y	TX-CO	early bulk, light set, drop, , , nice skin and flesh, stolon attachment, , ,	nice shape, some hollow heart, light skin and flesh, nice shape, good skin set, some feathering, light flesh, nice skin, rough, deeper eyes, stem attachment, , poor internals, hollow heart++, light skin, good skin set, nice shape, , drop for internals	3.3, 3.3, 3.3, 3.3	3.8, 3.8, 3.8, 3.8
A05180-3PY	WR			4.2, 4.2, 4.2, 4.2	3.5, 3.5, 3.5, 3.5
ATTX98514-1R/Y	TX-CO	light skin, nice flesh, , ,		3.3, 3.3, 3.3, 3.3	3, 3, 3, 3
ATTX98444S-16R/Y	WR	small, , ,	, all B's or smaller, heavy set, smooth, BOT for small potato, nice size	3.3, 3.3, 3.3, 3.3	4, 4, 4, 4
ATTX01180-1R/Y	TX-CO	nice, , ,	more smalls, some feathering, yield+, heavy set, nice flesh, some feathering, BOT- for R/Y, variable size nice size, good skin set, smooth, nice flesh and skin, stem attachment, BOT for P/Y	4.2, 4.2, 4.2, 4.2	3.6, 3.8, 3.8, 3.7
AC05175-3P/Y	WR	small, , ,	small, good skin set, small, light skin, nice flesh, poor shape, good skin set, better shape,	4, 4, 4, 4	4, 4, 4, 4
CO04067-8R/Y	WR	nice flesh, , , very nice skin and flesh, light skin		3.5, 3.5, 3.5, 3.5	3.6, 3.3, 3.6, 3.6
Sierra Rose	TX ADV	color, , ,	nice shape, light skin, good skin set, light flesh, smooth, lots of B's, , deeper eyes, road map, small, poor shape, light flesh, good skin set	4, 4, 4, 4	3.8, 3.6, 3.8, 3.6
BTX2103-1R/Y	TX-CO	variable shape, , ,		3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.7, 3.3
CO05037-2R/Y	WR	heavy set, pointed, , ,	nice flesh, drop, too small, too oblong, small, poor shape+	3.3, 3.3, 3.3, 3.3	2.5, 2.5, 2.5, 2.5
ATTX961014-1BR/Y	TX-CO	drop, pointed, , ,	, smooth, , good skin set, light skin and flesh	3.2, 3.2, 3.2, 3.2	3.7, 3.6, 3.8, 3.5
Klondike Rose	TX ADV	poor shape, pointed, light skin, , ,	drop, poor shape, rough+, , ,	3.5, 3.5, 3.5, 3.5	2, 2, 2, 2

Western and Southwestern Regional White/Yellow Trial, Springlake

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

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

- A05182-7RY, Yukon Gold, Sierra Gold, and ATX05202S-3W/Y had the highest general ratings and best of trial notations (Table 5a and 5e).
- A05182-7RY had the highest total yield, while CIT #5 had the highest marketable yield. Sierra Gold had the highest yield of over 10 oz. tubers (Table 5a).
- A05182-7RY had the highest yield of <4 oz. and culls/No. 2 tubers (Table 5a).
- Sierra Gold had the highest percentage of marketable yield, while A05182-7RY had the highest percentage of <4 oz. tubers (Table 5b).
- CO04099-3W/Y had the highest specific gravity (Table 5b).
- A05182-7RY had the highest number of tubers per plant (Table 5c).
- A05182-7RY, CIT #5, NDA081451CB-1CY, CO05035-1PW/Y, ATX05202S-3W/Y, A02267-1Y, and CIT #6 were the latest in maturity, while Yukon Gold and TXYG057 were the earliest in maturity (Table 5c).
- CO04099-3W/Y, Yukon Gold, CO05035-1PW/Y, A02267-1Y, and BTX1544-2W/Y had the darkest yellow flesh color (Table 5d).
- CO05035-1PW/Y and CIT #6 had high levels of hollow heart, while CO04099-3W/Y and Yukon Gold had high levels of internal brownspot (Table 5d).

Comments on entries:

- A05182-7RY Round White light skin, yield+, heavy set+, white skin, small potato, nice, BOT-, FC=2.5
- CIT #5 Round White poor internals, yield+, heavy set+, road map, nice shape, lenticels, FC=1.0
- NDA081451CB-1CY Round White nice size, small potato, uniform size, very light russet, some buff, nice flesh, FC=3.0
- CO04099-3W/Y Round White sticky stolons, red eyes, nice flesh, uniform, nice size, small, road map, lenticels, internal??, poor internals, FC=3.5

- Yukon Gold Oblong White BOT, light set, nice shape, poor internals, FC=3.5
- CO05035-1PW/Y Oblong White nice flesh, light purple skin, FC=3.5
- Sierra Gold Oblong Russet light set, light set, BOT+, FC=3.0
- ATX05202S-3W/Y Round White BOT, nice size for small potato, FC=3.0
- CO05037-3W/Y Long White blocky, russet+, small, FC=1.0
- A02267-1Y Oblong White poor internals, small potato+, some road map, nice shape and
flesh, light set, FC= 3.5
- BTX1544-2W/Y Oblong Buff low set, nice flesh, buff skin, low yield, FC=3.5
- TXYG057 Oblong White BOT, better yield, nice shape, low yield, FC=3.0
- CIT #6 Oblong White nice shape, light set++, large tubers, low yield++, hollow
heart, FC=1.0

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

Summary:

A05182-7RY, Yukon Gold, Sierra Gold, and ATX05202S-3W/Y were the outstanding entries bases on all factors.

Springlake Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 13 entries in the Western and Southwestern Regional
 Table 5a. White/Yellow Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
A05182-7RY	WR	337.8	62.6	62.6	0.0	0.0	0.0	258.4	16.9	3.8	3.8
CIT #5	CAN	289.6	179.9	110.0	65.2	4.8	0.0	98.1	11.6	NA	3.6
NDA081451CB-1CY	WR	255.4	63.3	61.0	2.2	0.0	0.0	190.2	1.9	4.0	3.8
CO04099-3W/Y	WR	223.3	91.4	79.5	11.8	0.0	0.0	118.0	14.0	3.3	3.7
Yukon Gold	WR	179.3	128.3	66.2	60.8	1.3	0.0	51.0	0.0	4.0	3.7
CO05035-1PW/Y	SW	177.9	135.3	58.8	67.0	9.5	0.0	41.2	1.4	3.8	3.5
Sierra Gold	TX-CO	161.8	136.7	53.8	69.9	13.0	0.0	25.1	0.0	4.5	4.0
ATX05202S-3W/Y	WR	149.4	37.1	31.9	5.2	0.0	0.0	103.2	9.2	4.0	3.9
CO05037-3W/Y	WR	148.6	88.6	56.7	31.9	0.0	0.0	58.5	1.5	3.3	3.5
A02267-1Y	WR	146.5	48.9	45.3	3.6	0.0	0.0	85.7	11.9	3.3	3.5
BTX1544-2W/Y	TX-CO	135.2	74.4	43.7	28.3	2.4	0.0	59.4	1.4	4.0	3.6
TXYG057	TX-CO	117.5	90.2	44.1	43.8	2.3	0.0	27.3	0.0	4.0	3.6
CIT #6	CAN	97.0	77.8	34.1	35.0	8.7	0.0	18.3	0.9	0.0	3.3
Average		186.1	93.4	57.5	32.7	3.2	0.0	87.3	5.4	3.5	3.6
L.S.D. (.05)		36.5	30.2	19.1	20.5	6.3		26.9	7.1	0.1	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 13 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
A05182-7RY	WR	18.6	18.6	0.0	0.0	0.0	76.4	5.0	1.059	13.0	Round	White
CIT #5	CAN	63.0	38.4	23.1	1.5	0.0	33.0	4.0	1.064	13.9	Round	White
NDA081451CB-1CY	WR	23.9	23.1	0.8	0.0	0.0	75.4	0.7	1.062	13.7	Round	White
CO04099-3W/Y	WR	42.3	36.7	5.6	0.0	0.0	51.8	5.8	1.064	13.9	Round	White
Yukon Gold	WR	70.6	37.9	32.1	0.5	0.0	29.4	0.0	1.066	14.4	Oblong	White
CO05035-1PW/Y	SW	75.5	32.5	37.3	5.8	0.0	23.7	0.7	1.053	12.0	Oblong	White
Sierra Gold	TX-CO	85.1	32.5	44.4	8.2	0.0	14.9	0.0	1.065	14.0	Oblong	Russet
ATX05202S-3W/Y	WR	24.9	21.4	3.5	0.0	0.0	68.6	6.5	1.052	11.8	Round	White
CO05037-3W/Y	WR	59.5	38.6	21.0	0.0	0.0	39.5	0.9	1.058	12.8	Long	White
A02267-1Y	WR	33.9	31.5	2.4	0.0	0.0	57.6	8.5	1.044	10.3	Oblong	White
BTX1544-2W/Y	TX-CO	55.7	36.0	17.5	2.2	0.0	43.2	1.2	1.063	13.7	Oblong	Buff
TXYG057	TX-CO	76.3	35.6	38.7	2.0	0.0	23.7	0.0	1.067	14.5	Oblong	White
CIT #6	CAN	81.0	33.7	37.4	9.9	0.0	17.8	1.2	1.060	13.2	Oblong	White
Average		54.6	32.0	20.3	2.3	0.0	42.7	2.7	1.060	13.2		
L.S.D. (.05)		10.0	10.8	11.8	4.9		10.2	3.2	0.005	1.0		

Springlake
Table 5c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 13 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
A05182-7RY	WR	15.8	1.8	2.0	100	100	1.9	3.9	4.9	3.9	0
CIT #5	CAN	7.4	3.2	2.0	98	100	2.0	3.9	4.5	3.9	5
NDA081451CB-1CY	WR	10.7	2.0	2.4	100	100	2.0	4.0	4.9	4.0	0
CO04099-3W/Y	WR	8.0	2.4	1.8	96	100	2.4	3.8	3.8	3.9	14
Yukon Gold	WR	4.3	3.8	1.2	88	90	1.1	3.6	3.0	3.6	44
CO05035-1PW/Y	SW	4.9	4.1	1.5	69	78	1.5	3.4	5.0	3.5	0
Sierra Gold	TX-CO	2.8	4.8	1.5	98	100	2.0	3.6	3.7	3.7	13
ATX05202S-3W/Y	WR	6.8	1.9	2.3	95	97	2.1	4.1	5.0	4.0	0
CO05037-3W/Y	WR	8.4	3.5	3.0	71	66	2.1	3.1	3.9	3.1	4
A02267-1Y	WR	6.3	2.3	1.3	65	82	1.8	3.3	4.6	3.5	3
BTX1544-2W/Y	TX-CO	3.7	3.2	1.6	80	90	1.9	3.5	3.5	3.5	15
TXYG057	TX-CO	2.8	4.0	1.3	76	86	1.4	3.5	3.2	3.5	30
CIT #6	CAN	2.4	4.5	1.1	56	79	1.8	3.3	4.0	3.4	0
Average		6.5	3.2	1.8	84	90	1.8	3.6	4.1	3.6	10
L.S.D. (.05)		3.7	0.5	ns	15	20	0.4	0.3	0.3	0.2	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 13 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2014.

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
A05182-7RY	WR	2.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CIT #5	CAN	1.0	2.0	1.5	4.0	1.5	5.0	5.0	5.0	5.0	5.0	0	0	0	13
NDA081451CB-1CY	WR	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO04099-3W/Y	WR	3.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	25
Yukon Gold	WR	3.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	23
CO05035-1PW/Y	SW	3.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	18	0	0	0
Sierra Gold	TX-CO	3.0	2.5	3.5	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05202S-3W/Y	WR	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05037-3W/Y	WR	1.0	4.0	3.8	4.0	3.7	5.0	5.0	5.0	5.0	5.0	3	0	0	0
A02267-1Y	WR	3.5	2.5	1.5	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX1544-2W/Y	TX-CO	3.5	3.0	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	3	0	0	3
TXYG057	TX-CO	3.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	8
CIT #6	CAN	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	13	0	0	0
Average		2.7	2.5	1.6	4.0	1.6	5.0	5.0	5.0	5.0	5.0	3	0	0	5

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 13 entries in the Western and Southwestern Regional White/Yellow Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
A05182-7RY	WR	, , light skin, heavy set,	, yield+, heavy set+, white skin, small potato, nice, BOT- poor internals, , yield+, heavy set+, road map, nice	3.8, 3.8, 3.8, 3.8	3.8, 3.8, 3.6, 3.8
CIT #5	CAN	, , ,	shape, lenticels	NA	3.5, 3.8, 3.6, 3.6
NDA081451CB-1CY	WR	small, , ,	nice size, small potato, uniform size, very light russet, , some buff, nice flesh	4, 4, 4, 4	3.8, 3.8, 3.8, 3.8
CO04099-3W/Y	WR	red eyes, , ,	sticky stolons, red eyes, nice flesh, uniform, nice size, small, road map, lenticels, internal??, poor internals	3.3, 3.3, 3.3, 3.3	3.6, 3.8, 3.6, 3.6
Yukon Gold	WR	, , BOT,	, light set, nice shape, poor internals,	4, 4, 4, 4	3.8, 3.6, 3.8, 3.6
CO05035-1PW/Y	SW	, , ,	, , nice flesh, light purple skin	3.8, 3.8, 3.8, 3.8	3.5, 3.5, 3.5, 3.5
Sierra Gold	TX-CO	, , light set, BOT,	, , light set, BOT,	4.5, 4.5, 4.5, 4.5	4, 4, 4, 4
ATX05202S-3W/Y	WR	, nice small potato size, ,	BOT, nice size for small potato, ,	4, 4, 4, 4	4, 4, 4, 3.7
CO05037-3W/Y	WR	, , , blocky	, , , russet+, small	3.3, 3.3, 3.3, 3.3	3.5, 3.5, 3.5, 3.5
A02267-1Y	WR	, , , small, poor internals	, small potato+, some road map, nice shape and flesh, light set	3.3, 3.3, 3.3, 3.3	3.5, 3.5, 3.4, 3.5
BTX1544-2W/Y	TX-CO	buff skin, , ,	low set, nice flesh, , buff skin, low yield	4, 4, 4, 4	3.7, 3.7, 3.7, 3.3
TXYG057	TX-CO	, , , BOT	, better yield, , nice shape, low yield	4, 4, 4, 4	3.7, 3.7, 3.5, 3.5
CIT #6	CAN	, , ,	nice shape, light set++, large tubers, low yield++, hollow heart	0, 0, 0, 0	3.4, 3.2, 3.4, 3.2

Southwestern Regional Purple/Purple Trial, Springlake

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

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

- CO05079-4P/PW, TX09429-1P/P, and NDTX091886-3P/P received the highest general ratings (Table 6a).
- CO05028-4P/PY had the highest total yield, marketable yield, 4-6 oz., and <4 oz. tubers, and (Table 6a) CO05028-11P/RWP had highest percentage of marketable yield, while NDTX091886-3P/P had the highest percentage of < 4 oz. tubers (Table 6b).
- CO05028-4P/PY had the highest number of tubers per plant (Table 6c).
- CO05079-4P/PW was the latest maturing clone, while TX09429-1P/P and NDTX091886-3P/P were the earliest maturing entries (Table 2c).
- TX09429-1P/P had the darkest purple flesh color (Table 6d).

Comments on entries:

- CO05028-4P/PY Oblong Purple poor flesh, some road map, purple white flesh, variable flesh color, yield-, FC=3.5
- CO05028-11P/RWP Oblong Purple poor skin, red flesh, poor flesh color, FC=3.5
- CO05079-4P/PW Oblong Purple heavy set, poor shape, nice smooth skin+, solid flesh color, good skin set, FC=4.5
- Purple Majesty Oblong Purple light flesh, poor skin finish, all blue like flesh, light set , FC=3.5
- TX09429-1P/P Round Purple poor skin, light flesh, nice flesh color, very dark flesh, road map , FC=5.0
- NDTX091886-3P/P Oblong Purple nice skin finish, low yield, dark flesh, nice flesh, road map, some white in pith, FC=4.5

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

Summary:

CO05079-4P/PW, TX09429-1P/P, and NDTX091886-3P/P were the best entries 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 6 entries in the Southwestern Regional Purple/Purple Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
CO05028-4P/PY	SW	309.2	139.5	110.8	24.4	4.3	0.0	167.5	2.2	3.0	3.0
CO05028-11P/RWP	SW	250.0	120.2	79.2	41.0	0.0	0.0	127.5	2.3	3.0	3.0
CO05079-4P/PW	SW	169.0	54.5	48.1	6.5	0.0	0.0	112.5	1.9	3.0	3.7
Purple Majesty	SW	152.3	48.3	43.4	4.9	0.0	0.0	91.2	12.8	3.5	3.4
TX09429-1P/P	TXPFL	125.7	44.9	40.4	4.5	0.0	0.0	80.7	0.0	3.3	3.6
NDTX091886-3P/P	TXPFL	118.8	38.1	35.4	2.7	0.0	0.0	80.6	0.1	3.7	3.7
Average		187.5	74.3	59.5	14.0	0.7	0.0	110.0	3.2	3.3	3.4
L.S.D. (.05)		49.4	19.8	17.9	9.6	0.3		36.4	7.8	0.1	0.1

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 6 entries in the Southwestern Regional Purple/Purple Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
CO05028-4P/PY	SW	45.3	35.9	8.0	1.4	0.0	54.1	0.7	1.068	14.6	Oblong	Purple
CO05028-11P/RWP	SW	48.3	31.6	16.7	0.0	0.0	50.8	0.9	1.074	15.7	Oblong	Purple
CO05079-4P/PW	SW	32.5	28.8	3.6	0.0	0.0	66.2	1.3	1.081	17.0	Oblong	Purple
Purple Majesty	SW	33.3	30.1	3.2	0.0	0.0	58.8	7.9	1.066	14.3	Oblong	Purple
TX09429-1P/P	TXPFL	36.7	32.5	4.2	0.0	0.0	63.3	0.0	1.082	17.1	Round	Purple
NDTX091886-3P/P	TXPFL	31.9	29.8	2.0	0.0	0.0	68.1	0.0	1.079	16.7	Oblong	Purple
Average		38.0	31.5	6.3	0.2	0.0	60.2	1.8	1.075	15.9		
L.S.D. (.05)		8.0	ns	4.8	0.1		8.2	4.4	ns	ns		

Springlake
Table 6c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 6 entries in the Southwestern Regional Purple/Purple Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
CO05028-4P/PY	SW	10.9	2.5	1.5	88	95	1.9	3.7	3.4	3.8	33
CO05028-11P/RWP	SW	6.8	3.1	1.7	82	100	1.5	3.6	3.1	3.7	45
CO05079-4P/PW	SW	5.6	2.6	1.5	75	97	1.9	3.8	3.8	3.7	13
Purple Majesty	SW	6.4	2.5	1.7	72	79	2.1	3.6	3.3	3.5	38
TX09429-1P/P	TXPFL	4.4	2.5	1.7	86	89	2.0	3.7	1.8	3.5	70
NDTX091886-3P/P	TXPFL	3.7	3.0	1.8	85	95	1.5	3.8	2.8	3.8	55
Average		6.3	2.7	1.7	81	93	1.8	3.7	3.0	3.7	42
L.S.D. (.05)		2.7	ns	ns	ns	ns	0.3	ns	0.4	0.4	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

Springlake
Table 6d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 6 entries in the Southwestern Regional Purple/Purple Trial grown near Springlake, Texas-2014.

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
CO05028-4P/PY	SW	3.5	2.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05028-11P/RW	SW	3.5	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05079-4P/PW	SW	4.5	2.5	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Purple Majesty	SW	3.5	3.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09429-1P/P	TXPFL	5.0	2.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX091886-3P/	TXPFL	4.5	2.5	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		4.1	2.6	1.0	4.0	4.3	5.0	5.0	5.0	5.0	5.0	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 6 entries in the Southwestern Regional Purple/Purple Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
CO05028-4P/PY	SW	, , poor flesh,	, , some road map, purple white flesh, variable flesh color, yield-	3, 3, 3, 3	3, 3, 3, 3
CO05028-11P/RWP	SW	, , , poor skin	, , , red flesh, poor flesh color	3, 3, 3, 3	3, 3, 3, 3
CO05079-4P/PW	SW	heavy set, poor shape, , ,	nice smooth skin+, solid flesh color, , good skin set,	3, 3, 3, 3	3.6, 3.7, 3.7, 3.6
Purple Majesty	SW	, light flesh, ,	, poor skin finish, all blue like flesh, light set,	3.5, 3.5, 3.5, 3.5	3.5, 3.3, 3.3, 3.3
TX09429-1P/P	TXPFL	, , poor skin, light flesh, nice flesh color,	, , very dark flesh, road map,	3.3, 3.3, 3.3, 3.3	3.5, 3.5, 3.7, 3.7
NDTX091886-3P/P	TXPFL	, , , nice skin finish, low yield, dark flesh	, nice flesh, , road map, some white in pith	3.7, 3.7, 3.7, 3.7	3.7, 3.6, 3.7, 3.6

Outstanding Texas Advanced Chip Selections, 2014

Overall Summary- Springlake and Dalhart: The Texas Advanced Chip Selection Trial at Springlake included fourteen entries, with forty entries planted at Dalhart. Atlantic was the check variety for both locations. Based on both trials will (NDTX060700C-1W, NDTX081648CB-13W, NDTX091908AB-2W, TX09396-1W, NDTX081644CAB-2W, NDTX071109C-1W, TX09403-14W, NDTX102462C-6W, NDTX102514ABC-5W, COTX09022-5Ru/Y, NDTX102557-1W, COTX10076-1W, COTX10076-7W, NDTX102461AB-4W, NDTX102640Cb-1W, NDTX113059-1W, NDTX113218C-2W, NDTX113218C-3W, NDTX113266C-1W, NDTX113277-1W, WTX10640-2W, COTX10031-1W, COTX10076-11W, COTX10076-8W, COTX10079-11W, NDTX081648CB-1W, NDTX081648CB-4W, NDTX102643CAB-1W, NDTX102702C-1W, NDTX102852CB-3Ru, NDTX102852CB-4Ru, WTX10640-3W, WTX10646-2W, and WTX10666-8W) be re-evaluated in the 2015 season. The following clones will be entered in the National Chip trial (NDTX081644CAB-2W, NDTX071109C-1W, TX09403-14W, NDTX102462C-6W, NDTX102514ABC-5W, COTX10076-1W, COTX10076-7W, NDTX102461AB-4W, NDTX102640Cb-1W, NDTX113059-1W, NDTX113218C-2W, NDTX113218C-3W, NDTX113266C-1W, NDTX113277-1W, and WTX10640-2W).

Texas Advanced Chip Trial, Springlake

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

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

- NDTX102462C-6W, NDTX091908AB-2W, and NDTX071109C-1W were the outstanding entries based on general rating and best of trial designations for chip quality. TX09403-14W had a high general rating and best of trial designations for appearance. NDTX081644CAB-2W, NDTX102514ABC-5W, NDTX060700C-1W, and NDTX081648CB-13W had best of trial designations for chip quality (Tables 7a, 7e, and 7f).
- NDTX102462C-6W had the highest total yield. Atlantic had the highest marketable yield. NDTX102462C-6W had the highest yield of <4 oz. tubers (Table 7a).
- TX09396-1W had the highest percentage of marketable yield (Table 7b).
- NDTX081644CAB-2W had the highest percentage of <4 oz. tubers (Table 7b).
- NDTX060700C-1W had the highest specific gravity (Table 7b).

- NDTX102921C-1W and TX09396-1W were the latest in maturity, while NDTX091908AB-2W, NDTX102514ABC-5W, and NDTX060700C-1W were the earliest in maturity (Table 7c).
- Atlantic had the highest percentage of internal brownspot, while NDTX091908AB-2W and NDTX102921C-1W had the highest percentage of hollow heart (Table 7d).
- NDTX060700C-1W received the highest percent of good chips (97%) (Table 7f).

Comments on entries:

- NDTX102462C-6W Oblong White yield+, heavy set, smooth, CR=1
- Atlantic Oblong Buff nice shape, poor internals, CR=1
- TX09403-14W Round White very nice shape, uniform, yield+, heavy set, BOT, CR=1
- NDTX091908AB-2W Oblong White small, too oblong, browncenter, CR=1
- NDTX102921C-1W Oblong White nice shape and size, drop for hollow heart, CR=1
- COTX09089-1Ru Oblong White round russet, growth cracks, drop, CR=1
- NDTX071109C-1W Oblong White nice size and shape, heavy set, uniform, light set, CR=1
- NDTX102557-1W Oblong White nice shape, light set, heavy set, small, CR=1
- TX09396-1W Oblong White large tubers, nice, light set, nice flesh, bad rep, CR=1
- NDTX081644CAB-2W Oblong White B's, nice flesh, too small, internals??. CR=1
- NDTX102514ABC-5W Oblong White too oblong, small, light set, CR=1
- NDTX060700C-1W Oblong White heavy set, uniform, too small++, light set, CR=1
- NDTX081648CB-13W Oblong White light set,+, nice size and shape, flesh, CR=1
- Waneta Oblong White nice shape, light set, low yield+, CR=1

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

Summary:

NDTX102462C-6W, NDTX091908AB-2W, and NDTX071109C-1W were the outstanding entries based on all factors.

Springlake
Table 7a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 14 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
NDTX102462C-6W	NATCH	249.6	107.2	93.7	13.5	0.0	0.0	140.4	2.1	3.8
Atlantic	WR	202.8	125.9	90.4	33.4	2.2	0.0	76.8	0.0	3.6
TX09403-14W	NATCH	188.4	93.9	67.2	26.7	0.0	0.0	91.3	3.3	3.9
NDTX091908AB-2W	NATCH	188.4	92.3	76.9	15.4	0.0	0.0	89.0	7.1	3.8
NDTX102921C-1W	TXCH	150.5	95.4	70.7	23.7	1.0	0.0	55.1	0.0	3.0
COTX09089-1Ru	TXCH	132.1	49.4	49.4	0.0	0.0	0.0	61.9	20.7	3.0
NDTX071109C-1W	TXCH	128.3	70.8	39.8	29.9	1.0	0.0	41.3	16.2	3.7
NDTX102557-1W	NATCH	127.6	50.0	43.9	6.1	0.0	0.0	74.5	3.1	3.6
TX09396-1W	NATCH	121.4	100.9	45.7	52.3	2.9	0.0	20.1	0.5	3.6
NDTX081644CAB-2W	NATCH	118.2	17.5	16.9	0.6	0.0	0.0	100.7	0.0	3.6
NDTX102514ABC-5W	NATCH	113.2	43.8	39.3	4.5	0.0	0.0	67.4	2.0	3.5
NDTX060700C-1W	NATCH	86.4	18.8	16.4	2.4	0.0	0.0	66.7	0.9	3.2
NDTX081648CB-13W	NATCH	84.3	55.3	37.2	18.2	0.0	0.0	29.0	0.0	3.6
Waneta	TXCH	76.8	56.4	31.3	23.8	1.4	0.0	20.4	0.0	3.4
Average		140.6	69.8	51.4	17.9	0.6	0.0	66.7	4.0	3.5
L.S.D. (.05)		22.0	22.7	16.3	13.9	ns		17.6	8.5	0.1

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

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
NDTX102462C-6W	NATCH	42.7	37.4	5.2	0.0	0.0	56.6	0.7	1.074	15.7	Oblong	White
Atlantic	WR	62.2	44.8	16.4	1.1	0.0	37.8	0.0	1.081	17.0	Oblong	Buff
TX09403-14W	NATCH	50.2	35.9	14.3	0.0	0.0	48.2	1.6	1.076	16.0	Round	White
NDTX091908AB-2W	NATCH	48.8	40.8	8.0	0.0	0.0	47.8	3.3	1.071	15.1	Oblong	White
NDTX102921C-1W	TXCH	63.8	47.6	15.5	0.7	0.0	36.2	0.0	1.064	13.9	Oblong	White
COTX09089-1Ru	TXCH	37.4	37.4	0.0	0.0	0.0	46.9	15.7	1.070	15.1	Oblong	White
NDTX071109C-1W	TXCH	52.3	30.5	21.2	0.6	0.0	32.7	15.0	1.063	13.7	Oblong	White
NDTX102557-1W	NATCH	39.9	34.8	5.1	0.0	0.0	57.8	2.3	1.073	15.5	Oblong	White
TX09396-1W	NATCH	82.8	37.2	43.5	2.1	0.0	16.8	0.4	1.072	15.3	Oblong	White
NDTX081644CAB-2W	NATCH	15.1	14.6	0.5	0.0	0.0	84.9	0.0	1.069	14.8	Oblong	White
NDTX102514ABC-5W	NATCH	38.3	34.6	3.8	0.0	0.0	59.9	1.8	1.072	15.3	Oblong	White
NDTX060700C-1W	NATCH	20.1	17.6	2.6	0.0	0.0	78.9	0.9	1.082	17.1	Oblong	White
NDTX081648CB-13W	NATCH	64.8	43.1	21.7	0.0	0.0	35.2	0.0	1.066	14.2	Oblong	White
Waneta	TXCH	72.3	41.1	29.6	1.6	0.0	27.7	0.0	1.065	14.2	Oblong	White
Average		49.3	35.5	13.4	0.4	0.0	47.7	3.0	1.071	15.2		
L.S.D. (.05)		13.8	10.7	9.9	ns		12.8	8.0	0.005	0.8		

Springlake
Table 7c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 14 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
NDTX102462C-6W	NATCH	8.9	2.3	1.8	96	100	2.5	3.8	3.2	3.8	21
Atlantic	WR	4.7	3.6	1.8	100	100	2.1	3.9	3.5	3.9	15
TX09403-14W	NATCH	6.0	2.7	1.6	76	97	2.4	3.8	3.8	3.8	13
NDTX091908AB-2W	NATCH	6.4	2.7	1.4	82	89	2.0	3.6	2.9	3.7	23
NDTX102921C-1W	TXCH	4.3	3.0	1.7	93	100	2.1	3.8	4.0	3.8	0
COTX09089-1Ru	TXCH	5.9	2.6	1.2	61	71	2.0	3.5	3.5	3.6	25
NDTX071109C-1W	TXCH	3.0	3.5	1.5	92	97	2.3	3.3	3.4	3.5	15
NDTX102557-1W	NATCH	4.5	2.5	1.5	77	96	2.5	3.6	3.1	3.7	20
TX09396-1W	NATCH	2.9	4.4	1.3	69	82	2.0	3.8	4.4	3.8	1
NDTX081644CAB-2W	NATCH	6.1	1.6	1.5	96	98	2.3	3.3	3.3	3.4	18
NDTX102514ABC-5W	NATCH	4.7	2.2	1.4	87	91	2.0	3.2	2.8	3.2	36
NDTX060700C-1W	NATCH	4.8	1.8	1.2	73	85	2.1	2.5	2.9	2.8	19
NDTX081648CB-13W	NATCH	2.4	3.1	1.6	88	94	2.1	3.8	3.3	3.8	15
Waneta	TXCH	2.1	3.7	1.0	51	83	2.0	2.8	3.6	3.2	9
Average		4.8	2.8	1.5	81	92	2.2	3.5	3.4	3.6	16
L.S.D. (.05)		1.1	0.4	0.2	16	12	0.3	0.5	ns	0.3	10

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

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
NDTX102462C-6W	NATCH	1.0	3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Atlantic	WR	1.0	3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	25
TX09403-14W	NATCH	1.0	2	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX091908AB-2W	NATCH	1.0	3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	15	0	0	0
NDTX102921C-1W	TXCH	1.0	3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	58	0	0	0
COTX09089-1Ru	TXCH	1.0	3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX071109C-1W	TXCH	1.0	3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102557-1W	NATCH	1.0	3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09396-1W	NATCH	1.0	3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	5
NDTX081644CAB-2W	NATCH	1.0	3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	8
NDTX102514ABC-5W	NATCH	1.0	3	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	3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081648CB-13W	NATCH	1.0	3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Waneta	TXCH	1.0	3	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	2.6	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	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 14 entries in the Texas Advanced Chip Selection Trial
grown near Springlake, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
NDTX102462C-6W	NATCH	yield+, heavy set, , , smaooth	3.8, 3.8, 3.8, 3.8
Atlantic	WR	buff skin, nice shape, internals??, poor internals, ,	3.6, 3.6, 3.5, 3.5
TX09403-14W	NATCH	very nice shape, uniform, BOT, yild+, heavy set, , , small, too oblong, browncenter, small, too oblong,	3.8, 3.9, 3.8, 3.9
NDTX091908AB-2W	NATCH	browncenter	3.8, 3.8, 3.7, 3.7
NDTX102921C-1W	TXCH	nice shape and size, drop for hollow heart, , , round russet, growth cracks, drop, round russet, growth	3, 3, 3, 3
COTX09089-1Ru	TXCH	cracks, drop, round russet, growth cracks, drop, round	3, 3, 3, 3
NDTX071109C-1W	TXCH	nice size and shape, heavy set, uniform, , light set	3.8, 3.8, 3.6, 3.5
NDTX102557-1W	NATCH	, nice shape, light set, heavy set, small,	3.7, 3.5, 3.7, 3.6
TX09396-1W	NATCH	large tubers, nice, light set, nice flesh, , bad rep	3.7, 3.6, 3.6, 3.3
NDTX081644CAB-2W	NATCH	B's, nice flesh, too small, internals??, ,	3.7, 3.6, 3.6, 3.4
NDTX102514ABC-5W	NATCH	, too oblong, small, , light set	3.7, 3.4, 3.6, 3.4
NDTX060700C-1W	NATCH	heavy set, uniform, , too small++, light set,	3.5, 3.3, 3, 3
NDTX081648CB-13W	NATCH	light set,+, nice size and shape, nice flesh, ,	3.7, 3.6, 3.4, 3.6
Waneta	TXCH	nice shape, light set, , , low yield+	3.6, 3.4, 3.4, 3.3

Springlake
Table 7f.

Specific gravity, percent solids, tuber general rating, chip color rating, good chip bad chip ratio, notes, percentage of Zebra Defect at chipping, and percentage Zebra Defect at grading of 14 entries in the Texas Advanced Chip Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Gravity	% Solids	Chip Color ² at Field Day	Chip Color ² at Grading	Good/Bad Chip Ratio at Field Day	Good/Bad Chip Ratio at Grading	Notes ³ at Field Day	Notes ³ at Grading	Percent Zebra Defect
NDTX102462C-6W	NATCH	1.074	15.7	1	1	0/10	32/8	10Vas BOT	1ZC, 4Vas, 1Bruise, 2Mech	3%
Atlantic	WR	1.081	17.0	1	1	0/10	29/11	10Vas	1Mech	0%
TX09403-14W	NATCH	1.076	16.0	1	1	1/9	33/6	9Vas	5Bruise, 1Mech	0%
NDTX091908AB-2W	NATCH	1.071	15.1	1	1	0/10	20/2	10Vas	2WW, BOT	0%
NDTX102921C-1W	TXCH	1.064	13.9		1		24/10		5Vas, 1WW 4BC	0%
COTX09089-1Ru	TXCH	1.070	15.1	3	1	0/10	8/2	10Vas, Ugly, Drop	2Vas	0%
NDTX071109C-1W	TXCH	1.063	13.7	1	1	0/10	40/1	10Vas, BOT	1Mech, BOT+	0%
NDTX102557-1W	NATCH	1.073	15.5	1	1	5/5	40/4	3ST1, 2Vas	1Vas, 2Bruise, 1WW	0%
TX09396-1W	NATCH	1.072	15.3	3	1	0/10	26/14	10Vas, Drop	10Vas, 4Bruise	0%
NDTX081644CAB-2W	NATCH	1.069	14.8	1	1	10/9	44/7	BOT	6Vas, 1Mech	0%
NDTX102514ABC-5W	NATCH	1.072	15.3	1	1	0/10	23/6	10Vas, BOT	2Vas, 3Bruise, 1WW	0%
NDTX060700C-1W	NATCH	1.082	17.1	1	1	7/4	34/6	2Vas, 2oil center, BOT	1Mech 1WW 4Bruise	0%
NDTX081648CB-13W	NATCH	1.066	14.2	2	1	0/10	35/6	4ST2, 6Vas	2Vas, 4Bruise, BOT	0%
Waneta	TXCH	1.065	14.2	1	1	0/9	32/7	8Vas, 1ST3	4Vas, 2WW 1Mech	0%

Fast track

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 discoloration, BSB=blackspot bruise, BC=brown center, Mech=mechanical damage, WW=wireworm probe, ST=stem end color 1-5=dark, ZC=zebra chip

Outstanding Texas Advanced Russet Selections, 2014

Overall Summary- Springlake and Dalhart: The Texas Advanced Russet Selection Trials had twenty six entries at Springlake and fifty two at Dalhart. Russet Norkotah was the check variety for both locations. Based on both trials, (ATTX07039-2Ru, ATX00289-2Ru, ATX84378-6Ru, COTX05095-2Ru/Y, COTX08258-6Ru, COTX08322-10Ru, COTX09022-3RuRE/Y, COTX09042-2Ru, COTX09052-1Ru, COTX09052-2Ru, COTX10010-1Ru, COTX10080-2Ru, COTX10080-3Ru, COTX10080-5Ru, COTX10111-8Ru, COTX10115-1Ru, COTX10141-11Ru, COTX10141-12Ru, COTX10141-13Ru, TX08352-5Ru, TXA549-1RU, and TXNS410) will be re-evaluated in the 2015 season.

Texas Advanced Russet Trial, Springlake

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

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

- ATTX07039-2Ru, ATX00289-2Ru, TX08352-5Ru, Russet Norkotah, COTX09052-2Ru, COTX09022-3RuRE/Y, COTX10111-8Ru, COTX09052-1Ru, and ATX84378-6Ru were the outstanding entries based on general ratings and best of trial designations. TX08350-12Ru and Stampede Russet also received high general ratings (Tables 8a and 8e).
- COTX10007-2Ru had the highest total yield, while ATTX07039-2Ru had the highest marketable yield and yield of over 10 oz. tubers (Table 8a).
- COTX10007-2Ru had the highest yield of <4 oz. tubers (Table 8a).
- COTX10114-1Ru had the highest yield of culls/No. 2 tubers (Table 8a).
- ATTX07039-2Ru had the highest percentage of marketable and over 10 oz. tubers (Table 8b).
- COTX05095-2Ru/Y had the highest percentage of <4 oz. tubers. COTX10114-1Ru had the highest percentage of culls/No.2 tubers (Table 8b).
- COTX09052-2Ru had the highest specific gravity (Table 8b).
- COTX08214-2Ru and TX8351-5Ru were the latest in maturity, while Russet Norkotah and AOTX05043-1Ru were the earliest in maturity (Table 8c).
- TX08350-12Ru had a high percentage of internal brownspot (Table 8d).

Comments on entries:

COTX10007-2Ru	Round Russet	nice shape, flat, blocky, too round, yield++, heavy set, smooth, small, drop, keep
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ATX07039-2Ru	Oblong Russet	nice shape, large, early bulk++, nice flesh, some rough, BOT-, BOT+
TX08350-12Ru	Long Russet	pointed, good yield, nice shape, drop for internals++++
COTX08214-2Ru	Oblong Russet	light russet, large tubers, feathering, light net, poor shape, rough, BOT-, drop+
COTX05095-2Ru/Y	Oblong Russet	light flesh, nice shape, small, poor net, drop, keep for yellow flesh
AORTX06670-1Ru	Long Russet	pointed, heavy set, small, drop+++
ATX00289-2Ru	Oblong Russet	small, yield+, some curved, shape not as good, nice flesh, nice shape, BOT=
Stampede Russet	Long Russet	very nice, better rep, low yield, nice shape++, keep
TX08352-5Ru	Oblong Russet	small, light set, late, nice flesh, blocky, keep, BOT?, BOT
Russet Norkotah	Long Russet	very nice, small, nice shape, smooth, BOT-
COTX09052-2Ru	Long Russet	late, keep, nice shape, smooth, nice net, BOT-
COTX10141-15Ru	Long Russet	blocky, poor net, internals?, nice smooth, drop, keep, BOT-
AOTX95265-3Ru	Oblong Russet	light set, pointed
COTX09022-3RuRE/Y	Oblong Russet	red eyes, very nice flesh++, BOT-, BOT+
COTX08322-10Ru	Oblong Russet	small, nice shape, blocky, large tubers, keep
TX08351-5Ru	Round Russet	small, blocky to round, drop++
TXNS410	Long Russet	keep, low yield
COTX08258-6Ru	Round Russet	flat, skinny, better shape, small, nice shape, drop+
COTX10114-1Ru	Oblong Russet	large, early, poor shape, nice flesh, drop keep
COTX10111-8Ru	Oblong Russet	very nice, light set, blocky, keep, BOT-
COTX09052-1Ru	Long Russet	late, small, nice shape, BOT-
ATX84378-6Ru	Oblong Russet	light set, small, good shape, nice flesh+, keep BOT-
AOTX95265-1Ru	Long Russet	better rep, pointed, light set, drop++
AOTX05043-1Ru	Oblong Russet	blocky, light set, drop
COTX09052-2Ru (mini)	Oblong Russet	light set, nice white flesh, pointed, keep
COTX10179-2Ru	No Data	

Summary:

ATX07039-2Ru, ATX00289-2Ru, TX08352-5Ru, Russet Norkotah, COTX09052-2Ru, and COTX09022-3RuRE/Y were the outstanding entries based on all factors.

Springlake
Table 8a.

Total yield, total yield of U.S. No. 1, under 4 ounce and culls/No.2 potatoes and general rating of 26 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
COTX10007-2Ru	TXRU	184.2	54.7	34.7	20.0	0.0	0.0	129.1	0.3	3.7	3.5
ATTX07039-2Ru	TXRU	178.3	149.2	24.7	58.8	65.7	10.4	12.8	6.0	4.4	4.2
TX08350-12Ru	TXRU	125.8	70.3	40.8	25.8	3.7	0.0	53.7	1.8	3.5	4.0
COTX08214-2Ru	TXRU	116.5	70.5	26.6	36.1	7.8	10.5	32.2	3.3	4.3	2.0
COTX05095-2Ru/Y	TXRU	113.3	34.6	22.0	12.5	0.0	0.0	78.7	0.0	3.0	3.5
AORTX06670-1Ru	TXRU	110.0	55.6	25.2	29.0	1.4	0.0	44.7	9.8	3.5	2.5
ATX00289-2Ru	TXRU	102.0	65.2	29.3	29.4	6.5	0.0	34.1	2.7	4.0	4.2
Stampede Russet	TXRU	98.0	70.2	29.4	27.1	13.7	0.0	26.4	1.4	4.2	3.7
TX08352-5Ru	TXRU	97.7	50.1	41.0	9.2	0.0	0.0	44.1	3.5	4.0	4.3
Russet Norkotah	WR	93.3	51.7	22.6	26.8	2.2	0.0	38.2	3.5	4.5	3.7
COTX09052-2Ru	TXRU	83.4	33.4	23.4	8.6	1.3	0.0	48.6	1.5	4.0	3.9
COTX10141-15Ru	TXRU	82.9	49.6	35.0	14.6	0.0	0.0	31.8	1.5	3.8	4.0
AOTX95265-3Ru	TXRU	78.8	49.5	24.9	20.6	4.1	0.0	24.8	4.5	3.5	3.8
COTX09022-3RuRE/Y	TXRU	75.1	48.2	23.3	19.5	5.4	0.0	24.4	2.5	4.5	4.5
COTX08322-10Ru	TXRU	73.1	51.3	20.7	23.5	7.1	0.0	18.6	3.3	3.7	3.8
TX08351-5Ru	TXRU	72.0	32.8	19.4	12.0	1.4	0.0	37.2	2.1	3.7	3.5
TXNS410	TXRU	68.5	35.8	20.4	13.3	2.1	0.0	28.0	4.7	3.5	3.2
COTX08258-6Ru	TXRU	66.2	22.8	19.6	3.2	0.0	0.0	41.6	1.8	3.5	2.8
COTX10114-1Ru	TXRU	66.0	46.3	14.9	31.5	0.0	0.0	9.3	10.4	3.5	3.8
COTX10111-8Ru	TXRU	65.7	42.5	9.7	28.0	4.8	0.0	23.2	0.0	4.0	3.8
COTX09052-1Ru	TXRU	63.5	28.2	18.8	9.3	0.0	0.0	33.8	1.6	4.0	3.8
ATX84378-6Ru	TXRU	55.0	32.5	14.2	10.1	8.2	0.0	19.3	3.2	4.2	3.0
AOTX95265-1Ru	TXRU	50.6	27.2	16.1	11.1	0.0	0.0	20.8	2.6	3.3	2.8
AOTX05043-1Ru	TXRU	39.3	12.3	8.7	3.5	0.0	0.0	26.4	0.7	2.8	2.5
COTX09052-2Ru (mini)	TXRU	24.5	8.6	4.5	4.1	0.0	0.0	15.9	0.0	No Data	3.5
COTX10179-2Ru	TXRU	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Average		87.4	47.7	22.8	19.5	5.4	0.8	35.9	2.9	3.8	3.5
L.S.D. (.05)		23.5	18.9	10.1	12.5	7.4	5.5	14.9	5.3	0.1	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 26 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
COTX10007-2Ru	TXRU	29.3	18.9	10.4	0.0	0.0	70.5	0.2	1.057	12.7	Round	Russet
ATTX07039-2Ru	TXRU	85.6	12.5	35.8	37.3	4.4	7.4	2.6	1.061	13.3	Oblong	Russet
TX08350-12Ru	TXRU	56.4	32.5	20.9	3.0	0.0	42.1	1.5	1.061	13.3	Long	Russet
COTX08214-2Ru	TXRU	61.2	22.8	31.8	6.5	7.8	27.9	3.1	1.073	15.5	Oblong	Russet
COTX05095-2Ru/Y	TXRU	30.4	19.6	10.7	0.0	0.0	69.6	0.0	1.069	14.8	Oblong	Russet
AORTX06670-1Ru	TXRU	50.4	23.0	25.8	1.6	0.0	39.1	10.5	1.078	16.4	Long	Russet
ATX00289-2Ru	TXRU	64.9	27.5	31.3	6.2	0.0	32.2	2.9	1.068	14.7	Oblong	Russet
Stampede Russet	TXRU	71.3	30.5	27.8	13.0	0.0	27.4	1.3	1.056	12.5	Long	Russet
TX08352-5Ru	TXRU	52.7	42.0	10.7	0.0	0.0	43.1	4.2	1.061	13.5	Oblong	Russet
Russet Norkotah	WR	56.1	24.3	29.6	2.2	0.0	40.3	3.6	1.066	14.2	Long	Russet
COTX09052-2Ru	TXRU	41.4	29.0	11.0	1.3	0.0	57.0	1.6	1.081	17.0	Long	Russet
COTX10141-15Ru	TXRU	62.2	47.6	14.5	0.0	0.0	36.0	1.9	1.073	15.4	Long	Russet
AOTX95265-3Ru	TXRU	63.1	30.9	27.6	4.7	0.0	31.7	5.2	1.066	14.2	Oblong	Russet
COTX09022-3RuRE/Y	TXRU	63.7	30.4	27.8	5.5	0.0	32.5	3.8	1.075	15.9	Oblong	Russet
COTX08322-10Ru	TXRU	65.9	30.6	28.5	6.8	0.0	30.8	3.3	1.059	13.1	Oblong	Russet
TX08351-5Ru	TXRU	45.7	27.2	16.8	1.7	0.0	51.3	3.0	1.062	13.5	Round	Russet
TXNS410	TXRU	49.0	29.5	15.3	4.1	0.0	42.8	8.3	1.069	14.8	Long	Russet
COTX08258-6Ru	TXRU	32.2	28.4	3.8	0.0	0.0	65.3	2.5	1.078	16.4	Round	Russet
COTX10114-1Ru	TXRU	70.2	22.5	47.6	0.0	0.0	14.1	15.7	1.075	15.9	Oblong	Russet
COTX10111-8Ru	TXRU	64.7	14.7	42.6	7.4	0.0	35.3	0.0	1.075	15.9	Oblong	Russet
COTX09052-1Ru	TXRU	43.9	28.7	15.2	0.0	0.0	53.4	2.7	1.065	14.1	Long	Russet
ATX84378-6Ru	TXRU	58.1	26.7	18.5	13.0	0.0	36.2	5.7	1.075	15.8	Oblong	Russet
AOTX95265-1Ru	TXRU	54.5	30.5	23.9	0.0	0.0	38.3	7.3	1.065	14.2	Long	Russet
AOTX05043-1Ru	TXRU	31.2	20.2	11.0	0.0	0.0	66.9	2.0	1.065	14.2	Oblong	Russet
COTX09052-2Ru (mini)	TXRU	33.8	18.8	15.0	0.0	0.0	66.2	0.0	1.065	14.1	Long	Russet
COTX10179-2Ru	TXRU	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Average		53.5	26.8	22.2	4.6	0.5	42.3	3.7	1.068	14.6		
L.S.D. (.05)		15.3	12.8	14.7	6.2	3.2	15.2	6.7	0.010	2.2		

Springlake
Table 8c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 26 entries in the Texas Advanced Russet Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
COTX10007-2Ru	TXRU	5.2	2.9	1.8	98	100	2.3	4.1	2.8	3.9	65
ATTX07039-2Ru	TXRU	2.2	7.8	1.3	72	88	2.3	3.5	3.4	3.4	40
TX08350-12Ru	TXRU	3.1	3.5	1.5	75	96	2.5	3.7	3.7	3.7	25
COTX08214-2Ru	TXRU	2.4	4.4	1.1	68	91	2.0	3.8	4.5	3.9	0
COTX05095-2Ru/Y	TXRU	3.6	2.6	2.1	97	100	2.3	3.8	3.2	3.8	49
AORTX06670-1Ru	TXRU	2.8	3.8	1.1	65	94	2.0	3.8	3.9	3.7	15
ATX00289-2Ru	TXRU	2.1	4.2	1.2	75	96	1.9	3.5	3.7	3.3	29
Stampede Russet	TXRU	1.9	5.1	1.4	67	85	1.8	3.6	3.3	3.7	49
TX08352-5Ru	TXRU	2.4	3.4	1.4	80	100	1.8	3.2	3.2	3.0	50
Russet Norkotah	WR	1.8	4.2	1.4	92	100	1.9	3.7	2.1	3.7	76
COTX09052-2Ru	TXRU	2.4	3.0	1.1	59	96	1.9	3.2	3.2	3.4	35
COTX10141-15Ru	TXRU	1.9	3.9	1.1	76	96	1.8	3.0	3.8	2.9	20
AOTX95265-3Ru	TXRU	1.5	4.3	1.5	98	99	2.1	3.6	3.2	3.5	51
COTX09022-3RuRE/Y	TXRU	1.8	4.0	1.6	70	90	2.4	3.7	3.0	3.7	58
COTX08322-10Ru	TXRU	1.8	4.4	1.5	70	81	1.8	2.5	3.2	2.5	46
TX08351-5Ru	TXRU	1.8	3.5	1.1	73	93	1.5	2.9	4.1	2.8	10
TXNS410	TXRU	1.7	3.5	1.5	93	96	1.5	2.4	3.0	2.5	63
COTX08258-6Ru	TXRU	2.0	2.9	1.2	76	97	2.5	3.8	3.4	3.9	35
COTX10114-1Ru	TXRU	1.0	5.9	1.2	79	89	2.5	3.5	3.9	3.5	10
COTX10111-8Ru	TXRU	1.3	4.3	1.3	79	93	2.0	3.3	3.3	3.0	30
COTX09052-1Ru	TXRU	2.1	3.1	1.1	47	83	1.8	2.7	3.3	2.5	31
ATX84378-6Ru	TXRU	1.1	4.7	1.3	75	94	1.9	3.4	3.2	3.2	51
AOTX95265-1Ru	TXRU	1.1	3.8	1.3	90	96	2.2	3.3	3.5	3.2	40
AOTX05043-1Ru	TXRU	1.2	3.1	1.1	65	95	1.5	3.2	2.5	3.1	76
COTX09052-2Ru (mini)	TXRU	1.3	2.4	1.1	0	63	1.0	1.0	4.5	1.0	0
COTX10179-2Ru	TXRU	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Average		2.1	4.0	1.3	74	92	1.9	3.3	3.4	3.2	38
L.S.D. (.05)		0.7	0.8	0.3	15	11	0.3	0.4	0.3	0.4	15

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

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
COTX10007-2Ru	TXRU	1.0	2.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX07039-2Ru	TXRU	1.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	3	5
TX08350-12Ru	TXRU	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	25
COTX08214-2Ru	TXRU	1.0	3.0	3.0	4.0	3.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
COTX05095-2Ru/Y	TXRU	3.0	2.5	4.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	3
AORTX06670-1Ru	TXRU	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX00289-2Ru	TXRU	1.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Stampede Russet	TXRU	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX08352-5Ru	TXRU	1.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah	WR	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09052-2Ru	TXRU	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10141-15Ru	TXRU	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	8	5
AOTX95265-3Ru	TXRU	1.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09022-3RuRE/Y	TXRU	3.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08322-10Ru	TXRU	1.0	2.6	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX08351-5Ru	TXRU	1.0	2.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXNS410	TXRU	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08258-6Ru	TXRU	1.0	2.1	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10114-1Ru	TXRU	1.0	2.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10111-8Ru	TXRU	1.0	2.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	10	0
COTX09052-1Ru	TXRU	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX84378-6Ru	TXRU	1.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	18	0
AOTX95265-1Ru	TXRU	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX05043-1Ru	TXRU	1.0	2.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09052-2Ru (mini)	TXRU	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10179-2Ru	TXRU	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	o Data	No Data	No Data	No Data
Average		1.2	3.0	4.0	4.0	3.9	5.0	5.0	5.0	5.0	4.9	0	0	2	2

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

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
COTX10007-2Ru	TXRU	, nice shape, flat, blocky, too round, drop, ,	nice shape, keep, yield++, heavy set, round, smooth, , small	3.7, 3.7, 3.7, 3.7	3.7, 3.5, 3.4, 3.5
ATTX07039-2Ru	TXRU	, , , nice shape, BOT-	, large, early bulk++, nice flesh, BOT+, some rough, ,	4.4, 4.4, 4.4, 4.4	4.5, 4.4, 4, 4
TX08350-12Ru	TXRU	, , , pointed	, good yield, poor internal, , nice shape, drop for internals++++	3.5, 3.5, 3.5, 3.5	4, 4, 3.8, 4
COTX08214-2Ru	TXRU	, , light russet, BOT-,	large tubers, feathering, , light net, poor shape, rough, drop+,	4.3, 4.3, 4.3, 4.3	2, 2, 2, 2
COTX05095-2Ru/Y	TXRU	, , light flesh, drop,	keep, nice shape, small, keep for yellow flesh, poor net	3, 3, 3, 3	3.5, 3.5, 4, 3
AORTX06670-1Ru	TXRU	, pointed, heavy set, small, drop, ,	, pointed, drop+++ ,	3.5, 3.5, 3.5, 3.5	2.5, 2.5, 2.5, 2.5
ATX00289-2Ru	TXRU	small, , ,	yield+, some curved, shape not as good, , nice flesh, nice shape, BOT=	4, 4, 4, 4	4, 4.2, 4.2, 4.5
Stampede Russet	TXRU	, , , very nice	better rep, keep, , low yield, nice shape++	4.2, 4.2, 4.2, 4.2	4, 3.7, 3.5, 3.5
TX08352-5Ru	TXRU	, , small, light set, late, BOT?,	nice flesh, BOT, , blocky, keep,	4, 4, 4, 4	4.5, 4.5, 4, 4
Russet Norkotah	WR	, , , very nice, BOT-	, , , small, nice shape, smooth	4.5, 4.5, 4.5, 4.5	3.5, 4.2, 3.3, 3.8
COTX09052-2Ru	TXRU	, , , late, BOT-	, keep, nice shape, smooth, nice net	4, 4, 4, 4	3.8, 3.8, 3.8, 4
COTX10141-15Ru	TXRU	, , blocky, poor net, drop,	, blocky, internals??, nice smooth, BOT-, keep	3.8, 3.8, 3.8, 3.8	4, 4, 4, 3.8
AOTX95265-3Ru	TXRU	, , , light set	, , , pointed	3.5, 3.5, 3.5, 3.5	3.8, 3.8, 3.8, 3.8
COTX09022-3RuRE/Y	TXRU	very nice flesh, BOT-, , ,	red eyes, BOT+, , very nice flesh++,	4.5, 4.5, 4.5, 4.5	4.5, 4.5, 4.5, 4.5
COTX08322-10Ru	TXRU	small, nice shape, , ,	blocky, large tubers, keep, , ,	3.7, 3.7, 3.7, 3.7	3.8, 3.8, 3.8, 3.6
TX08351-5Ru	TXRU	, , small,	, , blocky to round, drop++,	3.7, 3.7, 3.7, 3.7	3.4, 3.5, 3.4, 3.5
TXNS410	TXRU	keep, , ,	, , low yield,	3.5, 3.5, 3.5, 3.5	3.4, 3.4, 3, 3
COTX08258-6Ru	TXRU	, , , flat, skinny, drop	better shape, , drop+, small, nice shape	3.5, 3.5, 3.5, 3.5	3, 3, 2.5, 2.5
COTX10114-1Ru	TXRU	large, early, poor shape, drop, , ,	nice flesh, keep, , ,	3.5, 3.5, 3.5, 3.5	3.8, 3.8, 3.8, 3.8
COTX10111-8Ru	TXRU	very nice, light set, BOT-, , ,	blocky, keep, , ,	4, 4, 4, 4	3.8, 3.8, 3.8, 3.8
COTX09052-1Ru	TXRU	late, BOT-, small, , ,	nice shape, , ,	4, 4, 4, 4	3.8, 3.8, 3.7, 3.8
ATX84378-6Ru	TXRU	, , light set, BOT-,	, Keep, small, light set, good shape, nice flesh+	4.2, 4.2, 4.2, 4.2	3.5, 3.5, 2, 3
AOTX95265-1Ru	TXRU	, , , drop?	better rep, , pointed, light set, drop++	3.3, 3.3, 3.3, 3.3	3.5, 2.8, 3, 2
AOTX05043-1Ru	TXRU	, drop, ,	, blocky, light set, drop, ,	2.8, 2.8, 2.8, 2.8	2.5, 2.5, 2.5, 2.5
COTX09052-2Ru (mini)	TXRU	, , ,	light set, nice white flesh, pointed, , keep,	0, 0, 0, 0	3.5, 3.5, 3.5, 3.5
COTX10179-2Ru	TXRU	No Data	No Data	No Data	No Data

Outstanding Texas Advanced Red Selections, 2014

Overall Summary- Springlake and Dalhart: The Texas Advanced Red Selection Trials had eleven entries at Springlake and fourteen at Dalhart. Red LaSoda was the check variety for both locations. Based on both trials, (COTX02293-4R, COTX07054-2R, NDTX050070-1R, NDTX081572B-1R, NDTX092231C-1R, NDTX4784-7R, TX08363-2R, TX08375-3R, TX10437-10P, TX11448-2R, and TX11448-3R) will be re-evaluated in the 2015 season.

Texas Advanced Red Trial, Springlake

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

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

- TX10437-10P, TX08363-2R, and NDTX4784-7R were the outstanding entries based on general ratings and best of trial notations (Tables 9a and 9e).
- Red LaSoda had the highest total, and marketable yield (Table 9a).
- COTX07054-2R had the highest yield of <4 oz. tubers (Table 9a).
- Red LaSoda had the highest percentage of marketable yield (Table 9b).
- NDTX081572B-1R had the highest percentage of <4 oz. tubers (Table 9b).
- Red LaSoda and TX10437-10P were the latest maturing entries, while COTX02172-1R and COTX02293-4R were the earliest maturing entries (Table 9c).

Comments on entries:

- Red LaSoda Oblong Red nice, yield+, rough, deep eyes
- TX10437-10P Oblong Red very nice, PVP, good skin set, nice flesh, yield+, some feathering, BOT
- TX08363-2R Oblong Red nice set, skinny, internals??, some road map, nice shape, low yield, good skin set, BOT-
- NDTX4784-7R Round Red not as nice, yield++, nice shape, low yield, good skin set, BOT
- COTX07054-2R Round Red heavy set, yield+, nice shape, small+, good skin set
- NDTX050070-1R Round Red heavy set, good skin set
- NDTX092231C-1R Oblong Red heavy set, some pointing, poor shape+, too oblong, good skin set

- TX08375-3R Oblong Red move to small potato, shape??, small+, good skin set, lighter skin color
- COTX02172-1R Oblong Red small, low yield, light skin, shape??, drop internals??
- COTX02293-4R Oblong Red small, nice skin set, smooth, nice shape, low yield, nice flesh
- NDTX081572B-1R Round Red light set, small potato candidate, light skin, low yield

Summary:

TX10437-10P, TX08363-2R, and NDTX4784-7R were the outstanding entries based on all factors.

Springlake
Table 9a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 11 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
Red LaSoda	WR	298.0	249.9	135.3	87.9	26.7	0.0	48.1	0.0	4.0	3.4
TX10437-10P	TXRD	227.7	183.7	82.1	74.8	26.8	0.0	43.9	0.0	4.5	3.8
TX08363-2R	TXRD	202.9	155.4	95.5	52.5	7.3	0.0	47.5	0.0	3.5	3.7
NDTX4784-7R	TXRD	200.7	121.1	73.2	47.9	0.0	0.0	79.6	0.0	3.5	4.1
COTX07054-2R	TXRD	198.7	108.6	86.4	22.2	0.0	0.0	90.1	0.0	3.8	3.6
NDTX050070-1R	TXRD	173.8	105.6	81.8	21.2	2.7	0.0	68.2	0.0	3.7	3.4
NDTX092231C-1R	TXRD	173.4	99.3	81.1	18.2	0.0	0.0	74.1	0.0	3.5	3.1
TX08375-3R	TXRD	143.0	63.0	52.3	10.7	0.0	0.0	80.0	0.0	4.5	3.3
COTX02172-1R	TXRD	127.9	62.8	54.1	8.7	0.0	0.0	65.1	0.0	2.8	3.2
COTX02293-4R	TXRD	93.7	55.1	39.2	12.6	3.2	0.0	38.6	0.0	3.7	3.5
NDTX081572B-1R	TXRD	73.2	24.3	24.3	0.0	0.0	0.0	48.9	0.0	3.4	3.3
Average		173.9	111.7	73.2	32.4	6.1	0.0	62.2	0.0	3.7	3.5
L.S.D. (.05)		38.5	28.0	19.3	18.5	11.5		22.8		0.1	0.2

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

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Red LaSoda	WR	84.1	46.3	29.0	8.8	0.0	15.9	0.0	1.061	13.4	Oblong	Red
TX10437-10P	TXRD	82.6	36.7	36.1	9.8	0.0	17.4	0.0	1.049	11.3	Oblong	Red
TX08363-2R	TXRD	76.5	48.1	25.3	3.1	0.0	23.5	0.0	1.053	11.9	Oblong	Red
NDTX4784-7R	TXRD	59.9	35.7	24.2	0.0	0.0	40.1	0.0	1.060	13.3	Round	Red
COTX07054-2R	TXRD	55.9	43.9	11.9	0.0	0.0	44.1	0.0	1.072	15.4	Round	Red
NDTX050070-1R	TXRD	60.6	47.0	12.2	1.4	0.0	39.4	0.0	1.062	13.6	Round	Red
NDTX092231C-1R	TXRD	57.0	46.5	10.5	0.0	0.0	43.0	0.0	1.062	13.6	Oblong	Red
TX08375-3R	TXRD	44.3	37.3	7.1	0.0	0.0	55.7	0.0	1.056	12.5	Oblong	Red
COTX02172-1R	TXRD	49.9	43.0	6.8	0.0	0.0	50.1	0.0	1.053	12.1	Oblong	Red
COTX02293-4R	TXRD	58.1	42.0	12.7	3.3	0.0	41.9	0.0	1.061	13.3	Oblong	Red
NDTX081572B-1R	TXRD	32.7	32.7	0.0	0.0	0.0	67.3	0.0	1.055	12.4	Round	Red
Average		60.1	41.8	16.0	2.4	0.0	39.9	0.0	1.059	13.0		
L.S.D. (.05)		11.4	9.9	9.8	3.7		11.4		0.004	0.7		

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

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
Red LaSoda	WR	5.2	4.7	2.1	100	100	2.0	3.9	4.0	3.9	10
TX10437-10P	TXRD	4.1	4.7	1.1	79	100	2.8	3.8	3.9	3.8	8
TX08363-2R	TXRD	5.4	3.7	1.5	69	84	1.5	3.4	3.7	3.4	15
NDTX4784-7R	TXRD	4.9	3.4	1.5	94	100	1.5	3.5	3.3	3.5	39
COTX07054-2R	TXRD	6.1	2.9	1.8	93	97	2.3	3.4	3.6	3.5	23
NDTX050070-1R	TXRD	5.5	3.0	1.5	82	91	2.0	3.6	3.6	3.5	25
NDTX092231C-1R	TXRD	5.1	2.8	1.9	100	100	2.4	3.6	3.7	3.6	23
TX08375-3R	TXRD	5.2	2.3	1.9	100	100	2.4	3.4	2.6	3.4	50
COTX02172-1R	TXRD	5.1	2.1	1.8	88	98	2.8	3.2	2.3	3.2	69
COTX02293-4R	TXRD	3.0	2.8	1.5	80	96	2.2	3.4	2.0	3.4	74
NDTX081572B-1R	TXRD	3.1	1.9	1.9	96	100	2.1	3.2	2.8	3.3	48
Average		4.8	3.1	1.7	89	97	2.2	3.5	3.2	3.5	35
L.S.D. (.05)		1.5	0.5	0.4	14	9	0.4	0.3	ns	0.3	15

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

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	2.9	1.0	2.0	3.4	5.0	5.0	5.0	5.0	5.0	8	0	0	0
TX10437-10P	TXRD	1.0	3.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX08363-2R	TXRD	1.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	3
NDTX4784-7R	TXRD	1.0	1.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX07054-2R	TXRD	1.0	2.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050070-1R	TXRD	1.0	2.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	3
NDTX092231C-1R	TXRD	1.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX08375-3R	TXRD	1.0	2.5	1.0	3.8	3.9	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX02172-1R	TXRD	1.0	2.5	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	3
COTX02293-4R	TXRD	1.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081572B-1R	TXRD	1.0	1.5	1.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	2.4	1.0	3.8	3.7	5.0	5.0	5.0	5.0	5.0	1	0	0	1

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

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
Red LaSoda	WR	nice, , ,	yield+, yield+, rough, deep eyes, nice yield, yield+ good skin set, nice flesh, , yield+, nice skin, some feathering,	4, 4, 4, 4	3, 3.5, 3.5, 3.5
TX10437-10P	TXRD	very nice, PVP, BOT, , ,	BOT-, internals??, some road map, nice shape, low yield, good skin set	4.5, 4.5, 4.5, 4.5	3.8, 3.8, 3.8, 3.8
TX08363-2R	TXRD	nice set, BOT-, skinny, , ,	, yield++, BOT, , nice shape, low yield, good skin set	3.5, 3.5, 3.5, 3.5	3.8, 3.6, 3.6, 3.8
NDTX4784-7R	TXRD	not as nice, , ,	yield+, nice shape, small+, , good skin set	3.5, 3.5, 3.5, 3.5	4, 4.5, 4, 3.8
COTX07054-2R	TXRD	heavy set, , ,	, , good skin set, poor shape+, too oblong, shape??, good skin set, more oblong,	3.7, 3.7, 3.7, 3.7	3.3, 3.5, 3.3, 3.3
NDTX092231C-1R	TXRD	heavy set, some pointing, , ,	shape??, small+, good skin set, , lighter skin color	3.5, 3.5, 3.5, 3.5	3, 3.3, 3, 3
TX08375-3R	TXRD	move to small potato,, , ,	small, light skin, shape??, , internals??	4.5, 4.5, 4.5, 4.5	3.3, 3.3, 3.3, 3.3
COTX02172-1R	TXRD	small, low yield, drop, , ,	nice skin set, smooth, , nice shape, low yield, nice flesh	2.8, 2.8, 2.8, 2.8	3, 3.3, 3.3, 3
COTX02293-4R	TXRD	small, , ,	small potato candidate, light skin, , , low yield	3.7, 3.7, 3.7, 3.7	3.7, 3.5, 3.5, 3.3
NDTX081572B-1R	TXRD	light set, , ,		3.4, 3.4, 3.4, 3.4	3.3, 3.3, 3.3, 3.3

Outstanding Texas Advanced Red/Yellow Selections, 2014

Overall Summary- Springlake and Dalhart. The Texas Advanced Red Skin Yellow Flesh Selection Trials included four entries at Springlake and twelve entries at Dalhart. Sierra Rose was the check variety for both locations. Based on both trials, the following entries (COTX10138-18P/Y, TX11458-1R/Y, COTX10138-19P/Y, TX11458-2R/Y, and TX11458-3R/Y) will be tested again in 2015.

Texas Advanced Red/Yellow Selection Trial, Springlake

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

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

- TX09420-1R/Y was the outstanding entry based on general ratings and best of trial designations (Table 10a).
- TX09420-3R/Y had the highest total yield, while TX09420-1R/Y had the highest marketable yield (Table 10a)
- TX09420-3R/Y had the highest yield of over 4-6 oz. tubers, while ATX02263-1R/Y had the highest yield of <4 oz. tubers (Table 10a).
- TX09420-1R/Y had the highest percentage of marketable yield and 4-6 oz. tubers (Table 10b).
- ATX02263-1R/Y had the highest percentage of <4 oz. tubers (Table 10b).
- TX09420-3R/Y had the highest specific gravity (Table 10b).
- All the entries were late in maturity (Table 10c).
- TX09420-3R/Y, TX09420-1R/Y, and Sierra Rose had the darkest yellow flesh color (Table 10d).

Comments on entries:

- TX09420-3R/Y Oblong Red nice shape, poor internals, purple streaks, good skin set, FC=3
- TX09420-1R/Y Oblong Red poor internals+, good skin set, some purple streaks, FC=3
- Sierra Rose Oblong Red nice shape, light skin, good skin set, light flesh, smooth, FC=3
- ATX02263-1R/Y Oblong Red small, poor shape, light flesh, drop FC=2

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

Summary:

TX09420-1R/Y was the outstanding entry based on all factors.

Springlake Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 4 entries in the Texas Advanced Red/Yellow Selection
 Table 10a. Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz					
TX09420-3R/Y	TXR/Y	167.3	110.1	82.5	27.7	0.0	0.0	57.2	0.0	4.1	3.7
TX09420-1R/Y	TXR/Y	167.2	112.4	81.0	30.5	1.0	0.0	54.8	0.0	4.2	3.5
Sierra Rose	TX ADV	155.7	95.1	72.6	22.5	0.0	0.0	60.7	0.0	4.0	3.7
ATX02263-1R/Y	TXR/Y	82.2	15.0	14.4	0.5	0.0	0.0	67.2	0.0	4.2	3.0
Average		143.1	83.1	62.6	20.3	0.2	0.0	60.0	0.0	4.1	3.5
L.S.D. (.05)		28.2	33.0	26.0	9.9	ns		ns		0.1	0.2

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

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
TX09420-3R/Y	TXR/Y	65.2	49.2	16.1	0.0	0.0	34.8	0.0	1.068	14.6	Oblong	Red
TX09420-1R/Y	TXR/Y	66.5	47.4	18.5	0.6	0.0	33.5	0.0	1.067	14.5	Oblong	Red
Sierra Rose	TX ADV	60.6	46.6	14.1	0.0	0.0	39.4	0.0	1.063	13.8	Oblong	Red
ATX02263-1R/Y	TXR/Y	19.2	18.6	0.6	0.0	0.0	80.8	0.0	1.066	14.2	Oblong	Red
Average		52.9	40.4	12.3	0.1	0.0	47.1	0.0	1.066	14.3		
L.S.D. (.05)		15.9	14.3	4.7	ns		15.9		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 4 entries in the Texas Advanced Red/Yellow Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
TX09420-3R/Y	TXR/Y	4.6	3.0	2.2	97	100	2.0	3.8	2.5	3.8	53
TX09420-1R/Y	TXR/Y	4.2	3.3	2.7	100	100	2.0	3.9	2.4	4.0	54
Sierra Rose	TX ADV	4.7	2.7	1.5	87	100	2.1	3.9	3.3	4.2	34
ATX02263-1R/Y	TXR/Y	4.0	1.8	1.8	89	95	1.5	3.7	3.5	3.7	24
Average		4.4	2.7	2.0	93	99	1.9	3.8	2.9	3.9	41
L.S.D. (.05)		1.0	0.3	0.3	ns	ns	0.2	ns	0.4	0.2	12

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

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
TX09420-3R/Y	TXR/Y	3.0	2.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09420-1R/Y	TXR/Y	3.0	2.6	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Sierra Rose	TX ADV	3.0	3.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX02263-1R/Y	TXR/Y	2.0	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.8	2.8	1.0	4.0	3.9	5.0	5.0	5.0	5.0	5.0	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 10e.

Notes and general rating for all reps of 4 entries in the Texas Advanced Red/Yellow Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
TX09420-3R/Y	TXR/Y	nice, flesh??, purple streaks, , , nice shape, flesh??,purple streaks,	, nice shape, poor internals, purple streaks, good skin set, internal??	4.1, 4.1, 4.1, 4.1	3.5, 3.8, 3.5, 3.8
TX09420-1R/Y	TXR/Y	BOT-, , , very nice skin and flesh, light skin	, poor internals+, good skin set, some purple streaks,	4.2, 4.2, 4.2, 4.2	3.5, 3.5, 3.5, 3.5
Sierra Rose	TX ADV	color, , ,	nice shape, light skin, good skin set, light flesh, smooth,	4, 4, 4, 4	3.8, 3.6, 3.8, 3.6
ATX02263-1R/Y	TXR/Y	nice skin, small potato, , ,	small, , drop, poor shape, light flesh	4.2, 4.2, 4.2, 4.2	3, 3, 3, 3

Outstanding Texas Advanced White/Yellow Selections, 2014

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, (COTX03134-1W, COTX05249-3WRE/Y, COTX07382-2W/Y, COTX10097-2W/Y, COTX10138-16W/Ypinto, COTX10138-8W/Ypinto, NDTX059759-3RY/Y Pinto, and White LaSoda) will be tested again in 2015.

Texas Advanced White/Yellow Trial, Springlake

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

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

- NDTX059759-3RY/YPinto, NDTX059775-1W/Y, and Yukon Gold were the outstanding entries based on general ratings and best of trial notations, while COTX05249-3W/Y, TX08385-1Y/Y, and COTX10097-2W/Y received high general ratings (Tables 11a).
- White LaSoda had the highest total and marketable yield (Table 11a).
- COTX05249-3W/Y had the highest yield of < 4 oz. tubers (Table 11a).
- White LaSoda had the highest percentage of marketable yield. COTX05249-3W/Y had the highest percentage of <4 oz. tubers (Table 11b).
- COTX10097-2W/Y and NDTX071217CB-1W/Y had the highest specific gravity (Table 11b).
- White LaSoda and NDTX059759-3RY/YPinto were the latest maturing entries, while Yukon Gold COTX07382-2W/Y, and TXYG079 were the earliest maturing entries (Table 11c).
- Yukon Gold, TX08385-1Y/Y, and COTX10097-2W/Y had the darkest yellow flesh (Table 11d).
- Yukon Gold had 23% internal brownspot, while TXYG079 had 15% hollow heart (Table 11d).

Comments on entries:

- White LaSoda Oblong White deep eyes, red eyes, nice flesh, rough+, yield++, FC=1

Outstanding Texas Advanced White/Yellow Selections, 2014

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, (COTX03134-1W, COTX05249-3WRE/Y, COTX07382-2W/Y, COTX10097-2W/Y, COTX10138-16W/Ypinto, COTX10138-8W/Ypinto, NDTX059759-3RY/Y Pinto, and White LaSoda) will be tested again in 2015.

Texas Advanced White/Yellow Trial, Springlake

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

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

- NDTX059759-3RY/YPinto, NDTX059775-1W/Y, and Yukon Gold were the outstanding entries based on general ratings and best of trial notations, while COTX05249-3W/Y, TX08385-1Y/Y, and COTX10097-2W/Y received high general ratings (Tables 11a).
- White LaSoda had the highest total and marketable yield (Table 11a).
- COTX05249-3W/Y had the highest yield of < 4 oz. tubers (Table 11a).
- White LaSoda had the highest percentage of marketable yield. COTX05249-3W/Y had the highest percentage of <4 oz. tubers (Table 11b).
- COTX10097-2W/Y and NDTX071217CB-1W/Y had the highest specific gravity (Table 11b).
- White LaSoda and NDTX059759-3RY/YPinto were the latest maturing entries, while Yukon Gold COTX07382-2W/Y, and TXYG079 were the earliest maturing entries (Table 11c).
- Yukon Gold, TX08385-1Y/Y, and COTX10097-2W/Y had the darkest yellow flesh (Table 11d).
- Yukon Gold had 23% internal brownspot, while TXYG079 had 15% hollow heart (Table 11d).

Comments on entries:

- White LaSoda Oblong White deep eyes, red eyes, nice flesh, rough+, yield++,
FC=1

- ATTX07230-1Y/RE/Y Oblong White red splash, light flesh, internals??, drop, FC=2.5
- COTX05249-3W/Y Round White small, uniform size B's, nice flesh, small potato candidate, smooth, BOT, FC=3
- NDTX059775-1W/Y Oblong White pink eyes, small potato candidate, smooth, small, B's+, BOT, FC=2.5
- Yukon Gold Oblong White light set, nice shape, poor internals, BOT, FC=3.5
- TX08385-1Y/Y Oblong White eyes a little deep, uniform size B's, nice flesh, very nice, smooth BOT-, FC=3.5
- COTX10097-2W/Y Oblong White nice shape, smooth, nice flesh+, FC=3.5
- NDTX059759-3RY/YPinto Oblong White/Red very nice, flat, very dark red skin, nice flesh, BOT++, FC=3
- COTX07382-2W/Y Oblong White small, nice shape, smooth, light set, drop, FC=3.3
- TXYG079 Oblong White low yield, nice shape, poor internals, FC=2.5
- NDTX071217CB-1W/Y Round White patchy russetting, uneven russetting, small, light set, bad rep, FC=3
- COTX03134-1W (mini) Oblong White uneven russetting, small, shape??, patchy russetting, FC=1

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

Summary:

NDTX059759-3RY/YPinto, NDTX059775-1W/Y, and Yukon Gold were the outstanding entries based on all factors.

Springlake
Table 11a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 13 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Field	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
White LaSoda	TXW/Y	307.5	208.9	93.7	96.1	19.1	6.2	91.2	1.2	3.5	3.3
ATTX07230-1Y/RE/Y	TXW/Y	230.9	134.0	65.8	57.2	11.0	0.0	96.5	0.3	3.0	3.4
COTX05249-3W/Y	TXW/Y	197.9	11.9	11.3	0.6	0.0	0.0	185.1	0.9	3.5	3.7
NDTX059775-1W/Y	TXW/Y	191.7	49.3	39.2	10.1	0.0	0.0	132.6	9.9	3.5	3.8
Yukon Gold	WR	179.3	128.3	66.2	60.8	1.3	0.0	51.0	0.0	4.0	3.7
TX08385-1Y/Y	TXW/Y	175.8	84.8	55.7	29.0	0.0	0.0	86.4	4.6	3.8	3.7
COTX10097-2W/Y	TXW/Y	166.5	102.2	45.1	45.3	11.8	0.0	60.7	3.6	4.0	3.8
NDTX059759-3RY/Y Pinto	TXW/Y	149.7	57.1	35.4	21.7	0.0	0.0	87.6	5.0	5.0	4.5
COTX07382-2W/Y	TXW/Y	107.9	54.5	27.8	24.4	2.2	0.0	52.2	1.2	3.5	3.7
TXYG079	TXW/Y	103.9	75.2	33.7	36.3	5.2	0.0	28.7	0.0	3.8	3.5
NDTX071217CB-1W/Y	TXW/Y	55.7	10.9	8.4	2.5	0.0	0.0	44.9	0.0	3.5	3.2
COTX03134-1W (mini)	TXW/Y	46.0	11.4	9.0	2.4	0.0	0.0	26.8	7.8	3.0	3.0
White LaSoda (mini)	TXW/Y	22.6	7.0	5.0	2.0	0.0	0.0	15.6	0.0	3.5	2.0
Average		159.4	77.4	40.9	32.2	4.2	0.5	78.6	2.9	3.7	3.6
L.S.D. (.05)		33.2	31.4	22.8	24.3	5.3	1.6	24.2	5.7	0.1	0.1

¹ 1=very poor to 5= excellent

Springlake
Table 11b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 13 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
White LaSoda	TXW/Y	67.8	30.1	31.4	6.3	2.1	29.8	0.4	1.052	11.8	Oblong	White
ATX07230-1Y/RE/Y	TXW/Y	57.8	28.2	24.9	4.7	0.0	42.0	0.2	1.054	12.1	Oblong	White
COTX05249-3W/Y	TXW/Y	6.6	6.2	0.3	0.0	0.0	93.0	0.4	1.062	13.5	Round	White
NDTX059775-1W/Y	TXW/Y	24.8	20.1	4.7	0.0	0.0	70.2	5.0	1.055	12.3	Oblong	White
Yukon Gold	WR	70.6	37.9	32.1	0.5	0.0	29.4	0.0	1.066	14.4	Oblong	White
TX08385-1Y/Y	TXW/Y	48.4	32.2	16.2	0.0	0.0	49.0	2.6	1.063	13.8	Oblong	White
COTX10097-2W/Y	TXW/Y	57.5	24.9	24.7	7.9	0.0	40.9	1.5	1.069	14.8	Oblong	White
NDTX059759-3RY/Y Pintc	TXW/Y	37.1	22.8	14.2	0.0	0.0	59.0	3.9	1.057	12.7	Oblong	White/Red
COTX07382-2W/Y	TXW/Y	50.5	25.4	23.2	2.0	0.0	48.4	1.1	1.073	15.6	Oblong	White
TXYG079	TXW/Y	72.3	32.6	35.1	4.6	0.0	27.7	0.0	1.064	13.9	Oblong	White
NDTX071217CB-1W/Y	TXW/Y	13.7	10.7	3.0	0.0	0.0	86.3	0.0	1.069	14.8	Round	White
COTX03134-1W (mini)	TXW/Y	23.8	19.4	4.5	0.0	0.0	61.8	14.3	No Data	No Data	Oblong	White
White LaSoda (mini)	TXW/Y	11.2	8.0	3.2	0.0	0.0	88.8	0.0	1.054	12.1	Oblong	White
Average		44.2	24.2	17.9	2.2	0.2	53.1	2.5	1.062	13.6		
L.S.D. (.05)		13.1	11.6	10.5	3.3	0.6	14.8	7.3	0.004	0.8		

Springlake
Table 11c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 13 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
White LaSoda	TXW/Y	5.9	4.4	1.8	100	100	2.0	4.1	4.3	4.0	4
ATTX07230-1Y/RE/Y	TXW/Y	5.6	3.4	1.8	100	100	2.9	3.7	3.8	3.8	15
COTX05249-3W/Y	TXW/Y	9.0	1.9	1.6	80	96	2.0	3.6	3.7	3.8	9
NDTX059775-1W/Y	TXW/Y	7.0	2.3	1.9	100	100	2.4	3.8	3.5	3.9	28
Yukon Gold	WR	4.3	3.8	1.3	88	90	1.1	3.6	3.0	3.6	44
TX08385-1Y/Y	TXW/Y	5.5	2.7	1.7	92	100	1.8	3.6	3.3	3.6	24
COTX10097-2W/Y	TXW/Y	4.4	3.1	1.4	93	96	2.0	3.6	3.3	3.6	25
NDTX059759-3RY/Y Pinto	TXW/Y	4.3	2.9	1.3	91	100	1.6	3.4	4.3	3.6	4
COTX07382-2W/Y	TXW/Y	2.7	3.6	1.5	90	96	2.5	3.1	3.0	3.3	30
TXYG079	TXW/Y	2.7	3.9	1.4	71	80	1.5	3.0	3.0	3.4	40
NDTX071217CB-1W/Y	TXW/Y	3.2	1.6	1.6	74	83	2.9	2.9	3.3	3.2	20
COTX03134-1W (mini)	TXW/Y	2.1	1.8	1.1	88	100	2.0	1.0	5.0	1.0	0
White LaSoda (mini)	TXW/Y	2.8	2.9	2.0	21	21	1.4	1.0	5.0	1.0	0
Average		4.7	2.9	1.5	89	95	2.1	3.3	3.6	3.4	20
L.S.D. (.05)		1.2	0.5	0.3	13	9	0.3	0.3	0.4	0.3	10

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

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
White LaSoda	TXW/Y	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
ATTX07230-1Y/RE/Y	TXW/Y	2.5	3.0	1.0	3.8	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	10
COTX05249-3W/Y	TXW/Y	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059775-1W/Y	TXW/Y	2.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Yukon Gold	WR	3.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	23
TX08385-1Y/Y	TXW/Y	3.5	2.5	1.0	3.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10097-2W/Y	TXW/Y	3.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059759-3RY/Y Pinto	TXW/Y	3.0	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX07382-2W/Y	TXW/Y	3.3	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXYG079	TXW/Y	2.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	15	0	0	0
NDTX071217CB-1W/Y	TXW/Y	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	5
COTX03134-1W (mini)	TXW/Y	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
White LaSoda (mini)	TXW/Y	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.7	2.7	1.0	3.9	1.3	5.0	5.0	5.0	5.0	5.0	2	0	0	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 11e.

Notes and general rating for all reps of 13 entries in the Texas Advanced White/Yellow Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
White LaSoda	TXW/Y	deep eyes, , ,	, red eyes, deep eyes, nice flesh, rough+, , yield++	3.5, 3.5, 3.5, 3.5	3.3, 3.3, 3.3, 3.3
ATTX07230-1Y/RE/Y	TXW/Y	, , , drop	, red splash, light flesh, internals??, BOT, , uniform size B's, nice flesh, small potato	3, 3, 3, 3	3.4, 3.4, 3.4, 3.4
COTX05249-3W/Y	TXW/Y	small, , ,	candidate, smooth	3.5, 3.5, 3.5, 3.5	3.8, 3.7, 3.7, 3.7
NDTX059775-1W/Y	TXW/Y	, , ,	, pink eyes, small potato candidate, BOT, smooth, small, B's+	3.5, 3.5, 3.5, 3.5	3.8, 3.8, 3.8, 3.8
Yukon Gold	WR	, , BOT,	, light set, nice shape, poor internals, BOT-, eyes a little deep, uniform size B's, nice flesh,	4, 4, 4, 4	3.8, 3.6, 3.8, 3.6
TX08385-1Y/Y	TXW/Y	, , ,	very nice, nice flesh, smooth	3.8, 3.8, 3.8, 3.8	3.7, 3.7, 3.7, 3.7
COTX10097-2W/Y	TXW/Y	, , nice flesh, nice flesh	nice shape, smooth, , nice flesh+,	4, 4, 4, 4	3.8, 3.8, 3.8, 3.8
NDTX059759-3RY/Y Pinto	TXW/Y	, , , very nice, BOT+	flat, , very dark red skin, BOT, nice flesh	5, 5, 5, 5	4.5, 4.5, 4.5, 4.5
COTX07382-2W/Y	TXW/Y	, small, drop, ,	nice shape, smooth, light set, ,	3.5, 3.5, 3.5, 3.5	3.8, 3.6, 3.6, 3.6
TXYG079	TXW/Y	, , ,	low yield, nice shape, poor internals, , , patchy russeting, , uneven russeting, small, light set, bad	3.8, 3.8, 3.8, 3.8	3.5, 3.5, 3.5, 3.5
NDTX071217CB-1W/Y	TXW/Y	, small, ,	rep	3.5, 3.5, 3.5, 3.5	3.3, 3.3, 3.3, 3
COTX03134-1W (mini)	TXW/Y	, , ,	uneven russeting, small, shape??, , patchy russeting,	3, 3, 3, 3	3, 3, 3, 3
White LaSoda (mini)	TXW/Y	, , ,	eyes not as deep red eyes, , ,	3.5, , ,	2, , ,

Outstanding Texas Advanced Small Potato Selections, 2014

Overall Summary – Springlake and Dalhart. The Texas Advanced Small Potato Selection Trials consisted of eighteen entries at Springlake and twenty-seven entries at Dalhart. The following entries (ATTX05175S-1R/Y, ATX05186S-1R, ATX06264S-4R/Y, COTX04050S-1P/P, COTX04193S-2R/Y, COTX10073S-1W, COTX10138S-7W/Y, COTX10226S-1W/Y, NDTX059886S-1W/Y, NDTX071258BS-1R, NDTX092238CS-1P/W, NDTX092238CS-3P/W, NDTX092238CS-4P/W, NDTX102639CS-1W, NDTX102816CABS-1W, TX09406S-1P/P, TX11448S-4R, NDTX102816CABS-2W, and NDTX081451CBS-1Y/Y) will be tested again in 2015. The following entries will be trialed in California (NDTX102816CABS-2W, ATTX05175S-1R/Y, ATX05186S-1R, ATX06264S-4R/Y, COTX04050S-1P/P, COTX04193S-2R/Y, NDTX059886S-1W/Y, NDTX071258BS-1R, NDTX092238CS-1P/W, NDTX102639CS-1W, NDTX102816CABS-1W, TX09406S-1P/P, TX11448S-4R, NDTX081451CBS-1Y/Y, and COTX10073S-1W).

Texas Advanced Small Potato Selection Trial, Springlake

This trial consisted of eighteen entries.

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

- COTX10138S-7WPE/Y, TX09406S-1P/P, and COTX04193S-2R/Y were the outstanding entries for this trial based on general ratings and best of trial notations, while NDTX092238CS-3P/W, ATX06264S-4R/Y, ATX05186S-1R, ATX06254S-2R, ATTX05175S-1R/Y, and NDTX071258BS-1R had high general ratings (Tables 12a and 12e).
- NDTX102796CbS-2W had the highest total and marketable yields, while COTX10138S-7WPE/Y had the highest yield of < 1 inch tubers (Table 12a).
- NDTX102796CbS-2W had the highest percentage of marketable tubers. ATTX05175S-1R/Y had the highest percentage of <1 inch tubers (Table 12b).
- ATTX05186S-3W/Y had the highest percentage of culls/No. 2 tubers (Table 12b).
- COTX10138S-7WPE/Y had the highest average number of tubers per plant (Table 12c).
- NDTX102796CbS-2W and ATTX05186S-3W/Y were the latest maturing entries, while ATX05186S-1R, ATX06254S-2R, NDTX071258BS-1R, and COTX04193S-2R/Y were the earliest maturing entries (Table 12c).

- ATTX05175S-1R/Y had the darkest yellow flesh. TX09406S-1P/P and COTX04050-1P/P had very dark purple flesh (Table 12d).

Comments on entries:

- NDTX102796CbS-2W Round White chip?, too big, move to chip trial, FC=1.0
- COTX10138S-7WPE/Y Round White discard purple eyes, some internal brownspot, yield+, nice size and shape, all B's, BOT++, TC, CM to Kelly, FC=3.0
- TX09406S-1P/P Round Purple keep, nice shape and size, lots of B's, BOT, FC=4.0
- ATTX05186S-3W/Y Round White heavy set, heat sprouts, CM to Kelly, sticky stolons, nice size, nipples+, heat sprouts++, nice shape, drop, FC=3.0
- NDTX092238CS-3P/W Oblong Purple white flesh, move to red trial??. larger tubers, too big, feathering, FC=1.0
- COTX10073S-1W Round White chip?, CM to Kelly, nice shape and size, FC=1.0
- NDTX092238CS-1P/W Oblong Purple very white flesh, nipples, very nice skin color, some feathering, some larger tubers, FC=1.0
- NDTX092238CS-4P/W Oblong Purple stolon attachment, white flesh, very nice skin, some feathering, FC=1.0
- ATX06264S-4R/Y Oblong Red variable size, heavy set, oversized, variable size, lots of small tubers, (drop Kelly), FC=3.0
- NDTX081451CBS-1Y/Y Oblong White move to WH/Y, too big??. some larger tubers, Kelly has it, better rep, FC=2.0
- ATX05186S-1R Round Red very white flesh, better rep, CM to Kelly, nice size, shape, and color, yield-, FC=1.0
- ATX06254S-2R Oblong Red very white flesh, light skin, ok size, drop, CM to Kelly, FC=1.0
- ATTX05175S-1R/Y Round Red very nice flesh and shape, honorable mention, Kelly has it, light skin, FC=3.5
- ATTX98462S-3R/Y Oblong Red light skin, not small, heat sprouts, too oblong, low yield, move to RD/Y, drop, FC=3.0
- COTX04050S-1P/P Round Purple nice, some heat sprouts, road map, nice shape and size, nipples, FC=4.0
- ATTX06246S-1R Oblong Red not small, poor shape, poor internals, nice skin, some larger tubers, 1 ZC?, growth cracks, drop++, FC=1.0
- NDTX071258BS-1R Round Red to Kelly, nice shape, light set, low yield, FC=1.0
- COTX04193S-2R/Y Round Red nice flesh, Kelly has it low yield, BOT+, FC=3.5

¹FC=flesh color rating 1=light to 5= dark

Summary:

COTX10138S-7WPE/Y, TX09406S-1P/P, and COTX04193S-2R/Y were the outstanding entries for this trial based on all factors.

Springlake
Table 12a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 18 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2014.

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						
NDTX102796CbS-2W	TXSM	316.6	313.2	81.9	229.8	1.5	2.8	0.6	3.8	3.0	
COTX10138S-7W/Y	TXSM	275.2	244.2	205.1	39.2	0.0	29.9	1.0	3.7	4.5	
TX09406S-1P/P	TXSM	261.4	249.0	187.7	61.3	0.0	9.6	2.8	4.3	4.0	
ATX05186S-3W/Y	TXSM	258.6	178.7	137.4	41.2	0.0	12.6	67.3	3.8	3.5	
NDTX092238CS-3P/W	TXSM	245.5	238.0	171.9	66.1	0.0	6.0	1.5	4.0	3.6	
COTX10073S-1W	TXSM	239.8	228.6	91.1	137.5	0.0	6.3	4.8	3.8	3.8	
NDTX092238CS-1P/W	TXSM	234.7	223.4	133.0	90.4	0.0	5.8	5.4	3.7	3.8	
NDTX092238CS-4P/W	TXSM	221.6	214.7	134.6	80.1	0.0	6.7	0.2	3.8	3.8	
ATX06264S-4R/Y	TXSM	214.4	197.5	127.9	69.6	0.0	7.4	9.5	4.0	3.6	
NDTX081451CBS-1Y/Y	TXSM	211.9	203.9	125.8	78.0	0.0	2.0	6.1	3.5	3.5	
ATX05186S-1R	TXSM	189.7	174.9	124.3	50.6	0.0	12.5	2.2	4.5	3.8	
ATX06254S-2R	TXSM	188.5	172.3	112.4	60.0	0.0	10.9	5.3	4.5	3.4	
ATX05175S-1R/Y	TXSM	174.0	153.8	137.2	16.6	0.0	20.1	0.1	4.3	3.8	
ATX98462S-3R/Y	TXSM	167.1	165.1	50.6	114.5	0.0	2.0	0.0	3.0	2.5	
COTX04050S-1P/P	TXSM	138.1	121.9	87.7	34.1	0.0	4.9	11.3	3.8	3.8	
ATX06246S-1R	TXSM	115.6	104.8	55.5	47.6	1.6	4.0	6.9	3.0	3.0	
NDTX071258BS-1R	TXSM	105.4	102.2	81.2	21.0	0.0	3.3	0.0	4.4	3.6	
COTX04193S-2R/Y	TXSM	74.7	67.8	60.5	7.3	0.0	6.9	0.0	4.0	4.5	
Average		201.8	186.3	117.0	69.2	0.2	8.5	6.9	3.9	3.6	
L.S.D. (.05)		36.6	35.1	41.3	35.7	ns	5.2	12.3	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 18 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2014.

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		
NDTX102796CbS-2W	TXSM	98.9	26.5	72.0	0.5	0.8	0.2	Round	White
COTX10138S-7W/Y	TXSM	88.7	75.0	13.7	0.0	10.9	0.4	Round	White
TX09406S-1P/P	TXSM	95.3	71.2	24.1	0.0	3.7	1.0	Round	Purple
ATTX05186S-3W/Y	TXSM	68.5	52.2	16.3	0.0	4.9	26.6	Round	White
NDTX092238CS-3P/W	TXSM	97.0	69.4	27.6	0.0	2.4	0.6	Oblong	Purple
COTX10073S-1W	TXSM	95.6	39.2	56.3	0.0	2.7	1.8	Round	White
NDTX092238CS-1P/W	TXSM	95.1	56.2	38.9	0.0	2.4	2.4	Oblong	Purple
NDTX092238CS-4P/W	TXSM	96.8	60.4	36.5	0.0	3.1	0.1	Oblong	Purple
ATX06264S-4R/Y	TXSM	92.4	59.6	32.8	0.0	3.5	4.1	Oblong	Red
NDTX081451CBS-1Y/Y	TXSM	96.2	56.9	39.4	0.0	1.0	2.8	Oblong	White
ATX05186S-1R	TXSM	92.3	66.4	25.8	0.0	6.5	1.2	Round	Red
ATX06254S-2R	TXSM	91.4	60.3	31.1	0.0	5.5	3.1	Oblong	Red
ATTX05175S-1R/Y	TXSM	88.2	78.6	9.5	0.0	11.8	0.0	Round	Red
ATTX98462S-3R/Y	TXSM	98.8	30.4	68.4	0.0	1.2	0.0	Oblong	Red
COTX04050S-1P/P	TXSM	88.0	63.5	24.5	0.0	3.2	8.8	Round	Purple
ATTX06246S-1R	TXSM	89.8	48.0	40.7	1.1	3.5	6.7	Oblong	Red
NDTX071258BS-1R	TXSM	96.9	76.5	20.4	0.0	3.1	0.0	Round	Red
COTX04193S-2R/Y	TXSM	90.7	81.0	9.7	0.0	9.3	0.0	Round	Red
Average		92.3	59.5	32.6	0.1	4.4	3.3		
L.S.D. (.05)		6.1	15.5	13.3	ns	2.8	6.2		

Springlake
Table 12c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 18 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
NDTX102796CbS-2W	TXSM	6.9	3.8	1.4	96	100	1.9	3.6	4.1	3.5	8
COTX10138S-7W/Y	TXSM	17.8	1.3	1.9	98	100	2.0	3.1	3.5	3.2	25
TX09406S-1P/P	TXSM	12.2	1.8	2.0	100	100	2.5	3.9	3.0	3.9	56
ATTX05186S-3W/Y	TXSM	11.6	1.9	1.9	98	100	1.9	4.0	4.0	3.9	19
NDTX092238CS-3P/W	TXSM	8.6	2.4	1.5	94	100	1.9	3.5	3.9	3.6	13
COTX10073S-1W	TXSM	7.9	2.7	1.5	88	95	1.9	3.6	3.7	3.6	29
NDTX092238CS-1P/W	TXSM	8.7	2.5	1.7	87	90	1.8	3.6	3.6	3.6	25
NDTX092238CS-4P/W	TXSM	8.8	2.2	1.4	86	95	2.0	3.2	3.8	3.4	19
ATX06264S-4R/Y	TXSM	12.5	2.3	1.4	53	68	2.0	3.3	3.7	3.4	14
NDTX081451CBS-1Y/Y	TXSM	9.0	2.3	2.0	81	97	2.0	3.8	3.7	3.9	23
ATX05186S-1R	TXSM	10.6	1.5	1.5	87	97	2.0	3.7	2.4	3.7	83
ATX06254S-2R	TXSM	9.4	1.8	1.6	90	93	2.0	3.7	2.5	3.8	76
ATTX05175S-1R/Y	TXSM	11.1	1.3	1.6	96	100	2.5	3.2	3.8	3.2	19
ATTX98462S-3R/Y	TXSM	8.4	3.5	1.5	56	69	2.4	2.8	2.8	3.2	58
COTX04050S-1P/P	TXSM	9.1	1.9	1.7	59	68	2.5	3.7	3.9	3.8	19
ATTX06246S-1R	TXSM	8.2	2.3	1.1	39	52	2.1	2.8	3.2	3.3	33
NDTX071258BS-1R	TXSM	4.9	1.8	1.5	96	100	2.0	3.0	2.3	2.8	75
COTX04193S-2R/Y	TXSM	4.5	1.4	1.0	132	100	2.5	3.5	1.5	3.3	90
Average		9.4	2.1	1.6	85	90	2.1	3.4	3.3	3.5	38
L.S.D. (.05)		3.6	0.4	0.3	17	15	0.3	0.6	0.4	0.5	15

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 18 entries in the Texas Advanced Small Potato Selection Trial grown near Springlake, Texas-2014.

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
NDTX102796CbS-2W	TXSM	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
COTX10138S-7W/Y	TXSM	3.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	18
TX09406S-1P/P	TXSM	4.0	2.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX05186S-3W/Y	TXSM	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX092238CS-3P/W	TXSM	1.0	2.5	1.0	4.0	4.5	5.0	5.0	5.0	5.0	3.5	0	0	0	0
COTX10073S-1W	TXSM	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX092238CS-1P/W	TXSM	1.0	2.5	1.0	4.0	4.5	5.0	5.0	5.0	5.0	3.5	0	0	0	0
NDTX092238CS-4P/W	TXSM	1.0	2.5	1.0	4.0	4.5	5.0	5.0	5.0	5.0	3.5	0	0	0	0
ATX06264S-4R/Y	TXSM	3.0	2.5	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081451CBS-1Y/Y	TXSM	2.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05186S-1R	TXSM	1.0	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX06254S-2R	TXSM	1.0	2.5	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX05175S-1R/Y	TXSM	3.5	2.0	1.0	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98462S-3R/Y	TXSM	3.0	3.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04050S-1P/P	TXSM	4.0	2.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX06246S-1R	TXSM	1.0	2.5	1.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	3	0	0	5
NDTX071258BS-1R	TXSM	1.0	2.0	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	3
COTX04193S-2R/Y	TXSM	3.5	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.1	2.2	1.0	4.0	3.2	4.9	5.0	5.0	5.0	4.8	0	0	0	1

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

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
NDTX102796CbS-2W	TXSM	, , , chip?	, , , too big, move to chip trial	3.8, 3.8, 3.8, 3.8	3, 3, 3, 3
COTX10138S-7W/Y	TXSM	, , to Kelly, discard purple eyes,	some internal brownspot, , yield+, nice size and shape, all B's, BOT++, TC, CM to Kelly	3.7, 3.7, 3.7, 3.7	4.5, 4.5, 4.5, 4.5
TX09406S-1P/P	TXSM	, keep, ,	, nice shape and size, lots of B's, BOT, , CM to Kelly, sticky stolons, nice size, drop, nipples+,	4.3, 4.3, 4.3, 4.3	4, 4, 4, 4
ATX05186S-3W/Y	TXSM	, , heavy set, heat sprouts, drop,	heat sprouts++, nice shape,	3.8, 3.8, 3.8, 3.8	3.5, 3.5, 3.5, 3.5
NDTX092238CS-3P/W	TXSM	, , white flesh,	, move to red trial??, larger tubers, too big, feathering,	4, 4, 4, 4	3.6, 3.6, 3.6, 3.6
COTX10073S-1W	TXSM	, , , chip?	, , CM to Kelly, nice shape and size	3.8, 3.8, 3.8, 3.8	3.8, 3.8, 3.8, 3.8
NDTX092238CS-1P/W	TXSM	, , , very white flesh	nipples, , nice skin color, very nice skin, some feathering, some larger tubers	3.7, 3.7, 3.7, 3.7	3.8, 3.8, 3.8, 3.8
NDTX092238CS-4P/W	TXSM	, , , stolon attachment, white flesh	, , , very nice skin, some feathering	3.8, 3.8, 3.8, 3.8	3.8, 3.8, 3.8, 3.8
ATX06264S-4R/Y	TXSM	, , variable size, heavy set,	, , oversized, variable size, lots of small tubers, (drop Kelly)	4, 4, 4, 4	3.6, 3.6, 3.6, 3.6
NDTX081451CBS-1Y/Y	TXSM	move to WH/Y, , ,	too big??, , some larger tubers, Kelly has it, better rep , better rep, CM to Kelly, , nice size, shape, and color, yield-	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.5, 3.5
ATX05186S-1R	TXSM	, , , to Kelly, very white flesh		4.5, 4.5, 4.5, 4.5	3.8, 3.8, 3.8, 3.8
ATX06254S-2R	TXSM	, , to Kelly, very white flesh, , , very nice flesh and shape, to Kelly, honorable mention,	, , light skin, ok size, drop, CM to Kelly	4.5, 4.5, 4.5, 4.5	3.4, 3.4, 3.4, 3.4
ATX05175S-1R/Y	TXSM		Kelly has it, , nice shape, size and flesh, light skin,	4.3, 4.3, 4.3, 4.3	3.8, 3.8, 3.8, 3.8
ATX98462S-3R/Y	TXSM	, , , light skin, not small, heat sprouts	, too oblong, drop, low yield, not small, move to RD/Y,	3, 3, 3, 3	2.5, 2.5, 2.5, 2.5
COTX04050S-1P/P	TXSM	nice, some heat sprouts, , ,	road map, nice shape and size, nipples, , drop++, poor shape, poor internals, nice skin, some	3.8, 3.8, 3.8, 3.8	3.8, 3.8, 3.8, 3.8
ATX06246S-1R	TXSM	, not small, drop, ,	larger tubers, 1 ZC?, growth cracks,	3, 3, 3, 3	3, 3, 3, 3
NDTX071258BS-1R	TXSM	, , to Kelly,	, , nice shape, light set, low yield	4.4, 4.4, 4.4, 4.4	3.6, 3.6, 3.6, 3.6
COTX04193S-2R/Y	TXSM	nice flesh, Kelly has it, , ,	BOT+, low yield, , ,	4, 4, 4, 4	4.5, 4.5, 4.5, 4.5

Outstanding Texas Advanced Fingerling Selections, 2014

Overall Summary – Springlake and Dalhart. The Texas Advanced Fingerling Selection Trial consisted of six entries in Springlake and seven entries in Dalhart. Banana and Purple Peruvian were the checks. The following entries (COTX08044F-1R/R, COTX08365F-1P/P, and COTX08365F-3P/P) will be tested again in 2015.

Texas Advanced Fingerling Selection Trial, Springlake

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

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

- COTX08044F-1R/R, COTX08365F-4R/R, and COTX08365F-1P/P were the outstanding entries for this trial based on general ratings and best of trial designations (Table 13a and 13e).
- COTX08044F-1R/R had the highest total yield, while COTX08365F-4R/R had the highest marketable yield (Table 13a).
- COTX08365F-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 13a).
- COTX08365F-4R/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 13b).
- COTX08365F-1P/P had the highest average number of tubers per plant (Table 13c).
- COTX08365F-1P/P and Purple Peruvian were the latest in maturity, while COTX08365F-4R/R and COTX08365F-3P/P were the earliest in maturity (Table 13c).
- COTX08365F-1P/P and COTX08365F-3P/P had the darkest purple flesh.

Comments on entries:

- COTX08044F-1R/R Long Red yield+, nice red flesh, BOT+, FC=3.5
- COTX08365F-4R/R Long Red nice skin, smooth+, very nice size, BOT-, FC=3.5
- Banana Long White lots of marketable, more culls, nice flesh, some large, FC=1.0

- COTX08365F-1P/P Long Purple smooth skin, very nice size and flesh, yield-, BOT, FC=4.0
 - Purple Peruvian Long Purple very deep eyes, all blue like flesh, rough++, FC=3.8
 - COTX08365F-3P/P Long Purple too large++, smooth skin, , nice shape, low yield, FC=4.0
- ¹FC=flesh color rating 1=light to 5= dark

Summary:

COTX08044F-1R/R, COTX08365F-4R/R, and COTX08365F-1P/P were the outstanding entries for this trial based on all factors.

Springlake
Table 13a.

Total yield, total yield of U.S. No.1, under 1 inch and culls/No.2 potatoes and general rating of 6 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	Total Marketable Yield	Too Long	Under 1 inch	Culls/ No.3	General Rating ¹ Field	General Rating ¹ Grading
COTX08044F-1R/R	TXFG	167.4	122.0	1.3	11.6	32.5	3.8	4.5
COTX08365F-4R/R	TXFG	165.6	126.3	6.9	15.0	17.5	4.0	4.2
Banana	TXFG	151.5	77.6	7.8	19.3	46.8	4.5	3.5
COTX08365F-1P/P	TXFG	142.6	92.7	0.0	30.4	19.5	4.0	4.4
Purple Peruvian	TXFG	133.6	84.5	0.4	13.3	35.3	3.5	2.5
COTX08365F-3P/P	TXFG	122.7	89.1	23.9	3.9	5.9	3.8	3.8
Average		147.2	98.7	6.7	15.6	26.3	3.9	3.8
L.S.D. (.05)		27.1	23.4	8.1	11.5	12.2	0.1	0.2

¹ 1=very poor to 5= excellent

Springlake
Table 13b.

Percent by weight of U.S. No. 1, under 1 inch and culls/No.2 potatoes, tuber type and skin type of 6 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Percent By Weight				Tuber Type	Skin Type
		Total					
		Marketable Yield	Too Long	Under 1 inch	Culls/ No. 2		
COTX08044F-1R/R	TXFG	72.4	1.1	7.3	19.1	Long	Red
COTX08365F-4R/R	TXFG	76.7	4.2	8.4	10.6	Long	Red
Banana	TXFG	50.6	5.3	12.4	31.7	Long	White
COTX08365F-1P/P	TXFG	64.5	0.0	22.0	13.5	Long	Purple
Purple Peruvian	TXFG	62.8	0.3	9.8	27.1	Long	Purple
COTX08365F-3P/P	TXFG	73.1	18.7	3.1	5.0	Long	Purple
Average		66.7	4.9	10.5	17.8		
L.S.D. (.05)		9.8	11.4	7.9	9.7		

Springlake
Table 13c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 6 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
							Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
COTX08044F-1R/R	TXFG	7.9	1.9	1.4	79	94	1.6	2.8	3.9	3.0	6
COTX08365F-4R/R	TXFG	7.2	2.0	1.9	96	100	2.5	3.2	3.1	3.2	41
Banana	TXFG	9.3	1.4	2.2	100	100	2.0	3.8	3.7	3.8	16
COTX08365F-1P/P	TXFG	10.8	1.1	1.9	100	100	1.9	3.3	4.3	3.3	1
Purple Peruvian	TXFG	9.0	1.2	1.8	100	100	1.8	3.9	4.4	3.9	0
COTX08365F-3P/P	TXFG	3.6	2.8	1.7	95	99	2.0	3.2	2.3	3.4	86
Average		8.0	1.7	1.8	95	99	2.0	3.4	3.6	3.4	25
L.S.D. (.05)		ns	0.3	ns	6	ns	0.3	0.3	0.5	0.4	12

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 13d.

Flesh color, tuber shape, degree of russetting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 6 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2014.

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
COTX08044F-1R/R	TXFG	3.5	4.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08365F-4R/R	TXFG	3.5	5.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Banana	TXFG	1.0	5.0	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08365F-1P/P	TXFG	4.0	4.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Purple Peruvian	TXFG	3.8	5.0	1.0	2.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08365F-3P/P	TXFG	4.0	5.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.3	4.7	1.0	3.5	3.7	5.0	5.0	5.0	5.0	5.0	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 13e.

Notes and general rating for all reps of 6 entries in the Texas Advanced Fingerling Selection Trial grown near Springlake, Texas-2014.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
COTX08044F-1R/R	TXFG	nice skin, , ,	, yield+, , BOT+, nice red flesh	3.8, 3.8, 3.8, 3.8	4.5, 4.3, 4.5, 4.5
COTX08365F-4R/R	TXFG	nice shape, , ,	, nice skin, smooth+, BOT-, very nice size	4, 4, 4, 4	4.4, 4, 4, 4.2
Banana	TXFG	, , ,	, lots of marketable, more culls, nice flesh, some large , smooth skin, BOT, very nice size and flesh, yield-, smooth skin	4.5, 4.5, 4.5, 4.5	3.5, 3.6, 3.3, 3.4
COTX08365F-1P/P	TXFG	nice shape, , ,	smooth skin	4, 4, 4, 4	4.4, 4.2, 4.4, 4.4
Purple Peruvian	TXFG	rough, , ,	, , very deep eyes, all blue like flesh, rough++	3.5, 3.5, 3.5, 3.5	2.5, 2.5, 2.5, 2.5
COTX08365F-3P/P	TXFG	too big, poor internals, , ,	too large++, smooth skin, , nice shape, low yield	3.8, 3.8, 3.8, 3.8	3.8, 3.8, 3.8, 3.8

2014 Dalhart Trials

Summary of growing conditions:

These trials were planted 10 miles southwest of Dalhart in a CSS Farms production field on 13 to 17 May and harvested on 8, 22, 24, and 29 September. Standard cultural practices for the area were used (Table 3). Precipitation was higher than normal during the growing season. (Figure 4).

Trials conducted:

- Chip Potato Breeders Trial (not reported)
- Western and Southwestern Regional Chip
- Western and Southwestern Regional Russet
- Western and Southwestern Regional Red
- Western and Southwestern Regional Red/Yellow
- Western and Southwestern Regional White/Yellow
- Southwestern Regional Purple/Purple
- Commercial Variety Chip
- Texas Advanced Chip Selection
- 2013 Chip Selection
- Texas Advanced Russet Selection
- 2013 Russet Selection
- Texas Advanced Red Selection
- 2013 Red Selection
- Texas Advanced Red/Yellow Selection
- 2013 Red /Yellow Selection
- Texas Advanced White/Yellow Selection
- 2013 White/Yellow Selection
- Texas Advanced Small Potato Selection
- 2013 Small Potato Selection
- Texas Advanced Fingerling Selection

Table 3. Environmental and cultural inputs for the 2014 Dalhart Trials.		
Location:		
Dalhart, Texas		
Soil Type		
Dallum Fine Sandy Loam		
Seed Source		
Wisconsin, Michigan, Minnesota, North Dakota, Maine, New York, Colorado, Oregon, Texas, and Idaho		
Date:		DAP
Planted	May 14, 2014	
Vines Killed (Red and Red Yellow Flesh)	September 1, 2014	107
Vines Killed (Chip and White Yellow Flesh)	September 1, 2014	107
Vines Killed (Russet)	September 9, 2014	115
Harvested (Nat Chip Trial, Chip)	September 8, 2014	114
Harvested (Red and Red/White Yellow Flesh)	September 22, 2014	128
Harvested (Small)	September 24, 2014	130
Harvested (Russet)	September 29, 2014	135
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:		
115-50-0 # per acre		
Irrigation:		
Center Pivot		
Seed Treatment		
Cruiser Maxx		
Insecticide:		
Beleaf, Fulfill, Movento, Reaper		
Herbicides Applied:		
Select Max, Chateau, Brawl, Acumen, Tricor		
Fungicide Applied:		
Quadris, Penncozeb, Bravo, Revus Top, Scala SC, Luna Tranquility, Echo		
Environmental Factors:		
Precipitation was higher than normal during the growing season.		

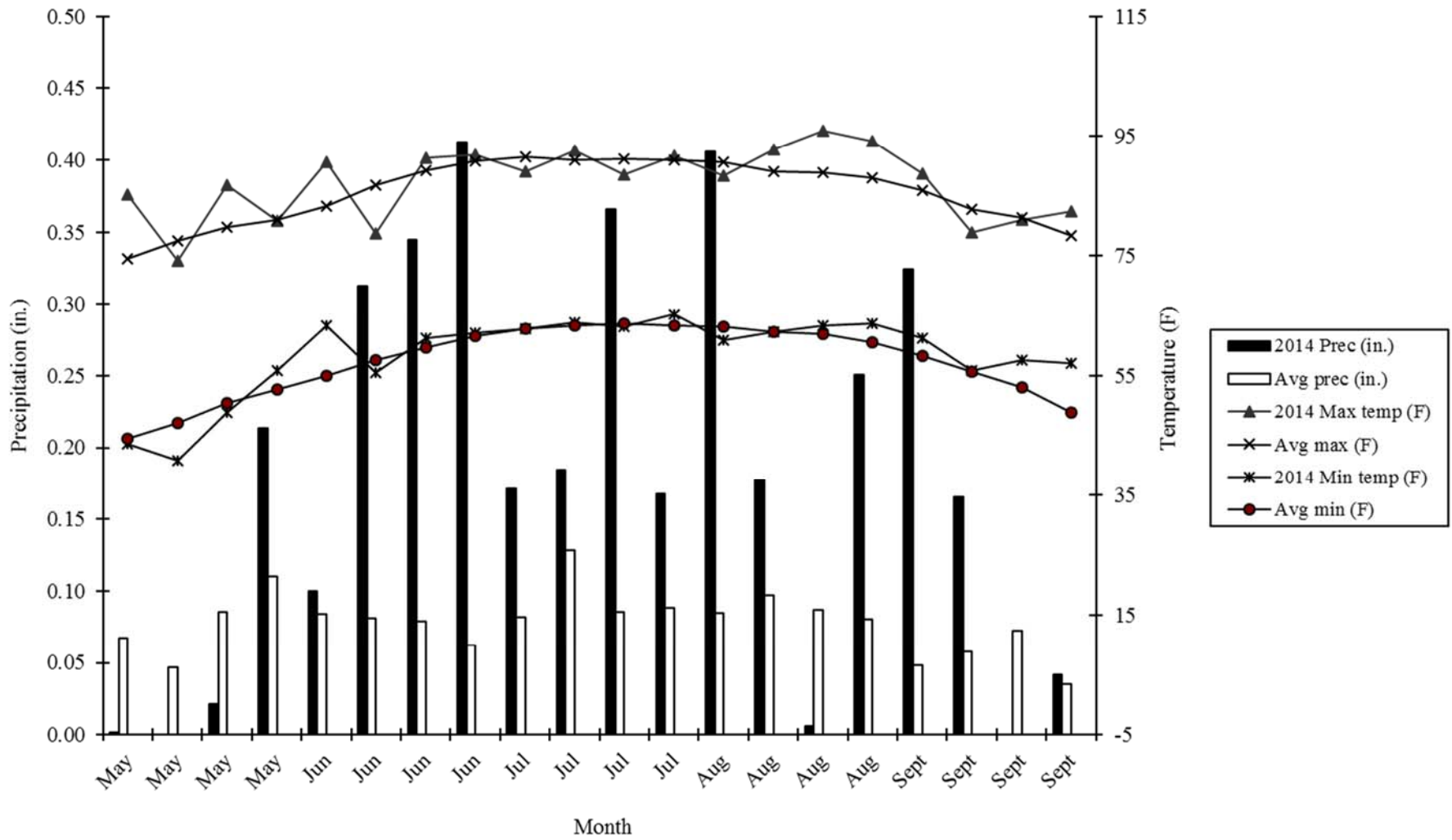


Figure 4. Weekly minimum/maximum temperatures and precipitation for the 2014-growing season near Dalhart, Texas compared to the average minimum/maximum temperatures and precipitation (1949-2014).

Western and Southwestern Regional Chip Trial, Dalhart

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

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

- AC05153-1W was the outstanding entry based on tuber appearance and best of trial designation for chip quality. CO03243-3W had the highest general rating and best of trial designation for tuber appearance. (Table 1a, 1e, and 1f).
- CO03243-3W had the highest total and marketable yield (Table 1a).
- AC00206-2W had the highest yield of < 4 oz. tubers (Table 1a).
- Atlantic had the highest yield of culls/No. 2 tubers (Table 1a).
- AC05153-1W had the highest percentage of marketable yield (Table 1b).
- AC00206-2W had the highest percentage of <4 oz. tubers, while Chipeta had the highest percentage of culls/No. 2 tubers (Table 1b).
- A02138-2 had the highest specific gravity (Table 1b).
- AC00206-2W had the highest average number of tubers per plant (Table 1c).
- CO03243-3W, AC03452-2W, and Chipeta were the latest maturing entries, while AC05153-1W was the earliest maturing entry (Table 1c).
- Atlantic had the highest percent hollow heart and internal brownspot (Table 1d).
- AC05153-1W produced the highest quality chips (Table 1f).

Comments on entries:

- CO03243-3W Round White very smooth, nice size BOT, chip rating nice, CR=1.0
- A02138-2 Long White too long, processor, drop, chip rating drop-, CR=1.0
- Atlantic Oblong Buff nice shape, poor internals, buff skin, chip rating drop/keep, CR=1.0
- AC00206-2W Round White nice size, nice shape, chip rating drop, CR=1.0
- AC03452-2W Round White rough+, chip rating keep, CR=1.0
- AC05153-1W Oblong White nice shape, nice size, chip rating BOT, CR=1.0
- Chipeta Oblong White large tubers, light set, chip rating drop/keep CR=2.0

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

Summary:

AC05153-1W was the outstanding entry based on all factors.

Dalhart
Table 1a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 7 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
CO03243-3W	WR	503.2	400.5	66.6	153.1	180.9	56.0	46.7	0.0	4.0
A02138-2	WR	485.0	346.0	49.2	138.6	158.3	62.9	56.6	19.5	2.0
Atlantic	WR	397.8	318.8	63.7	127.2	128.0	0.0	48.1	30.9	3.6
AC00206-2W	WR	391.8	297.7	96.2	116.2	85.3	0.0	94.2	0.0	3.8
AC03452-2W	WR	381.7	292.7	57.0	139.0	96.7	0.0	65.5	23.4	3.4
AC05153-1W	WR	308.2	252.4	52.3	97.5	102.7	0.0	55.8	0.0	3.8
Chipeta	WR	267.6	218.6	21.2	85.0	112.4	0.0	20.3	28.6	3.6
Average		390.8	303.8	58.0	122.4	123.4	17.0	55.3	14.6	3.5
L.S.D. (.05)		62.3	52.3	17.3	ns	46.5	26.7	20.3	ns	0.1

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 7 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
CO03243-3W	WR	79.4	13.1	30.3	36.1	11.1	9.5	0.0	1.069	14.9	Round	White
A02138-2	WR	72.4	10.2	29.5	32.7	12.2	12.0	3.4	1.080	16.7	Long	White
Atlantic	WR	80.0	16.0	31.8	32.3	0.0	11.9	8.1	1.078	16.5	Oblong	Buff
AC00206-2W	WR	75.9	24.6	29.6	21.8	0.0	24.1	0.0	1.072	15.4	Round	White
AC03452-2W	WR	77.4	15.0	36.4	25.9	0.0	17.1	5.5	1.061	13.4	Round	White
AC05153-1W	WR	81.8	16.9	31.6	33.3	0.0	18.2	0.0	1.078	16.4	Oblong	White
Chipeta	WR	81.7	7.9	31.9	41.9	0.0	7.6	10.7	1.061	13.3	Oblong	White
Average		78.4	14.8	31.6	32.0	3.3	14.3	4.0	1.071	15.2		
L.S.D. (.05)		ns	3.8	ns	ns	5.0	5.1	6.4	0.003	0.5		

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 7 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
CO03243-3W	WR	4.9	6.6	100	1.5	4.0	5.0	4.0	0
A02138-2	WR	4.5	7.0	100	2.1	3.8	3.8	3.8	33
Atlantic	WR	4.1	6.3	100	1.5	4.3	4.0	4.5	14
AC00206-2W	WR	5.8	4.3	100	2.5	3.5	3.8	3.5	9
AC03452-2W	WR	4.5	5.4	100	1.5	4.5	4.8	4.7	1
AC05153-1W	WR	4.1	5.1	96	2.3	3.7	3.1	3.7	59
Chipeta	WR	2.0	8.5	100	1.5	4.8	5.0	4.9	0
Average		4.3	6.2	99	1.8	4.1	4.2	4.2	16
L.S.D. (.05)		0.7	1.1	ns	0.2	0.3	0.6	0.3	22

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 7 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2014.

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	8	0	0	0
A02138-2	WR	1.0	4.0	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Atlantic	WR	1.0	3.0	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	20	0	0	33
AC00206-2W	WR	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	3
AC03452-2W	WR	1.0	2.0	1.0	3.5	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	3
AC05153-1W	WR	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Chipeta	WR	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	2.7	1.3	3.9	1.3	5.0	5.0	5.0	5.0	5.0	5	0	0	5

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 1e.

Notes and general rating for all reps of 7 entries in the Western and Southwestern Regional Chip
Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
CO03243-3W	WR	BOT, very smooth, , nice size	4, 4, 4, 4
A02138-2	WR	, , drop, too long, processor	2, 2, 2, 2
Atlantic	WR	nice shape, poor internals, , buff skin	3.8, 3.7, 3.6, 3.4
AC00206-2W	WR	, nice size, , nice shape	3.8, 3.9, 3.8, 3.8
AC03452-2W	WR	, rough+, ,	3.6, 3.3, 3.3, 3.3
AC05153-1W	WR	, nice shape, nice size,	3.9, 3.8, 3.8, 3.8
Chipeta	WR	large tubers, , light set,	3.6, 3.4, 3.6, 3.6

Dalhart
Table 1f. Specific gravity, percent solids, tuber general rating, chip color rating, good chip bad chip ratio, notes, percentage of Zebra Defect at chipping, and percentage Zebra Defect at grading of 7 entries in the Western and Southwestern Regional Chip Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Gravity	% Solids	Chip General Rating ¹	Chip Color ²	Good/Bad Chip Ratio	Notes ³	Percent Zebra Defect
CO03243-3W	WR	1.069	14.9	Nice	1	26/12	1GH, Nice	0%
A02138-2	WR	1.080	16.7	Drop-	1	13/25	1 HH, 1 Mech	0%
Atlantic	WR	1.078	16.5	D/K	1	14/16	1GH	0%
AC00206-2W	WR	1.072	15.4	Drop	1	19/18	9 Brown Center	0%
AC03452-2W	WR	1.061	13.4	Keep	1	23/8		0%
AC05153-1W	WR	1.078	16.4	BOT	1	35/3		0%
Chipeta	WR	1.061	13.3	D/K	2	10/11		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 Regional and Texas Advanced Russet Trial, Dalhart

This trial consisted of twenty-six 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, and AOTX98152-3Ru received high general ratings and best of trial designations (Tables 2a and 2e).
- Russet Norkotah296 had the highest total yield, while ATX91137-1Ru had the highest marketable yield. OR05039-4 had the highest yield of 10-18 oz. tubers, while AOTX96216-2Ru had the highest yield of over 18 oz. tubers (Table 2a).
- CO03276-5RU had the highest yield of <4 oz. tubers. Russet Burbank had the highest yield of culls/No.2 tubers (Table 2a).
- OR05039-4 had the highest percentage of marketable yield (Table 2b).
- Ranger Russet had the highest percentage of <4 oz. tubers. Russet Burbank had the highest percentage of culls/No. 2 tubers (Table 2b).
- ATX05142-2Ru had the highest specific gravity (Table 2b).
- OR05039-4, CO05175-1RU, CO05068-1RU, Ranger Russet, A02424-83LB, and A03921-2 were the latest maturing entries, while Pacific Russet and Russet Norkotah were the earliest maturing entries (Table 2c).
- Russet Norkotah296, AOTX96216-2Ru, POR06V12-3, and AOTX98152-3Ru had the highest percentage of hollow heart, while Shepody had the highest percentage of vascular discoloration (Table 2d).

Comments on entries:

- Russet Norkotah296 Long Russet too long, pointed
- ATX91137-1Ru Long Russet some oversized, BOT++
- A03158-2TE Long Russet deep eyes, curved, pointed, ugly
- AO01114-4 Long Russet small, curved, pointed, deep eyes
- OR05039-4 Long Russet pear shaped, light net, pointed
- A02062-1TE Long Russet skinny, pointed

- Pacific Russet Oblong Russet oversized, blocky, nice shape, ,
- AO02060-3 Long Russet very nice shape, BOT-
- Russet Norkotah Long Russet rough, pointed, small
- CO05175-1RU Long Russet curved, pointed, too long
- CO03276-5RU Long Russet small, skinny, pointed
- Shepody Long White rough, pear shaped
- A06021-1T Long Russet pointed
- CO05068-1RU Oblong Russet rough, ugly, pointed, blocky
- A06084-1TE Long Russet some pointed
- AOTX96216-2Ru Long Russet knobs, ugly, oversized, rough
- ATX05142-2Ru Long Russet nice shape, some pointed,
- A02507-2LB Long Russet nice shape, nice skin, oversized
- Ranger Russet Long Russet light skin, skinny, rough, poor shape
- A02424-83LB Long White light skin, pointed
- CO06057-3RU Long Russet skinny, pointed
- Russet Burbank Long Russet rough, skinny, ugly
- POR06V12-3 Long Russet hollow heart++, blocky, light set, nice shape
- AC05039-2RU Long Russet small, pointed
- A03921-2 Long Russet light net, nice shape
- AOTX98152-3Ru Long White blocky, nice shape, BOT-

Summary:

Overall, ATX91137-1Ru and AO02060-3 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 26 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				
Russet Norkotah 296	TX	655.7	450.3	42.9	256.4	151.0	69.9	104.5	30.9	3.0
ATX91137-1RU	TX-CO	648.8	520.6	46.0	268.0	206.6	64.5	63.7	0.0	4.5
A03158-2TE	WR	604.7	468.2	44.6	222.2	201.4	31.5	75.5	29.5	2.0
AO01114-4	WR	583.9	493.7	53.7	259.1	180.9	8.5	71.6	10.2	2.8
OR05039-4	WR	575.4	509.2	27.0	268.2	214.1	4.8	56.4	5.0	2.4
A02062-1TE	WR	553.0	434.8	16.6	213.0	205.1	49.2	44.6	24.5	2.5
Pacific Russet	TX	549.7	421.9	60.4	217.8	143.7	60.6	50.0	17.2	3.7
AO02060-3	WR	519.6	409.5	32.4	186.1	191.0	42.7	59.5	7.9	3.7
Russet Norkotah	WR	514.0	372.3	67.4	208.9	96.0	2.9	107.2	31.5	3.1
CO05175-1RU	WR	513.2	360.9	33.8	186.1	141.1	64.7	55.0	32.6	2.8
CO03276-5RU	WR	497.8	362.4	65.8	213.9	82.8	0.0	108.9	26.6	2.0
Shepody	WR	491.8	346.2	36.7	159.7	149.8	24.3	53.7	67.6	2.6
A06021-1T	WR	491.4	402.8	46.9	209.1	146.9	23.0	50.4	15.1	3.3
CO05068-1RU	WR	481.9	322.8	64.5	197.5	60.8	8.7	93.6	56.8	2.9
A06084-1TE	WR	480.2	362.8	45.8	193.9	123.0	0.0	86.1	31.3	3.4
AOTX96216-2RU	TX-CO	480.0	225.7	16.0	99.6	110.1	123.4	22.2	108.7	2.7
ATX05142-2RU	SW	476.3	403.7	39.0	215.9	148.7	0.0	67.8	4.8	3.8
A02507-2LB	WR	441.2	324.0	28.2	138.6	157.2	50.0	50.0	17.2	3.1
Ranger Russet	WR	421.7	258.0	39.8	143.3	74.9	7.7	97.7	58.3	2.1
A02424-83LB	WR	389.6	302.0	57.9	157.6	86.5	0.0	85.3	2.3	2.5
CO06057-3RU	SW	386.6	304.5	44.8	113.7	146.0	42.3	39.8	0.0	2.0
Russet Burbank	WR	379.6	150.2	9.1	132.3	8.7	0.0	81.7	147.7	2.0
POR06V12-3	WR	372.7	274.8	35.9	127.6	111.4	36.7	61.2	0.0	3.7
AC05039-2RU	SW	362.6	308.7	75.5	177.6	55.6	0.0	53.9	0.0	2.5
A03921-2	WR	358.0	241.2	31.1	100.0	110.1	54.6	36.1	26.1	3.4
AOTX98152-3RU	TX-CO	345.8	274.4	37.1	162.4	74.9	23.0	36.3	12.0	3.7
Average		489.2	361.2	42.5	186.6	132.1	30.8	67.1	30.1	2.9
L.S.D. (.05)		64.4	61.2	17.0	49.2	58.8	30.7	21.7	38.9	0.3

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 26 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				
Russet Norkotah 296	TX	68.8	6.4	39.5	22.8	10.7	16.1	4.5	1.065	14.2	Long	Russet
ATX91137-1RU	TX-CO	80.3	7.1	41.4	31.8	9.8	9.9	0.0	1.067	14.5	Long	Russet
A03158-2TE	WR	77.3	7.4	36.7	33.2	5.2	12.5	4.9	1.066	14.4	Long	Russet
AO01114-4	WR	84.5	9.3	45.6	29.6	1.6	12.1	1.8	1.073	15.6	Long	Russet
OR05039-4	WR	88.8	4.3	47.1	37.4	0.6	9.7	0.8	1.076	16.0	Long	Russet
A02062-1TE	WR	79.4	3.3	38.1	38.1	8.5	8.0	4.0	1.063	13.7	Long	Russet
Pacific Russet	TX	77.3	11.0	40.0	26.3	10.8	9.2	2.8	1.059	13.0	Oblong	Russet
AO02060-3	WR	78.3	6.1	35.5	36.6	8.7	11.4	1.6	1.072	15.4	Long	Russet
Russet Norkotah	WR	72.7	13.1	40.9	18.8	0.5	20.7	6.0	1.065	14.2	Long	Russet
CO05175-1RU	WR	70.5	6.6	36.3	27.6	12.8	10.7	6.0	1.061	13.3	Long	Russet
CO03276-5RU	WR	72.9	13.2	43.3	16.4	0.0	21.9	5.1	1.066	14.2	Long	Russet
Shepody	WR	71.2	7.6	32.9	30.7	5.3	10.9	12.6	1.068	14.6	Long	White
A06021-1T	WR	82.3	9.8	42.1	30.4	4.3	10.7	2.8	1.075	15.9	Long	Russet
CO05068-1RU	WR	66.8	13.6	40.8	12.4	1.8	19.6	11.7	1.080	16.8	Oblong	Russet
A06084-1TE	WR	75.5	9.6	40.2	25.7	0.0	18.1	6.4	1.072	15.3	Long	Russet
AOTX96216-2RU	TX-CO	47.2	3.4	21.3	22.5	26.1	4.6	22.1	1.062	13.5	Long	Russet
ATX05142-2RU	SW	84.7	8.1	45.4	31.1	0.0	14.3	1.0	1.086	17.9	Long	Russet
A02507-2LB	WR	74.0	6.4	31.6	35.9	11.4	11.0	3.7	1.075	16.0	Long	Russet
Ranger Russet	WR	61.4	9.6	33.7	18.2	1.6	23.2	13.8	1.075	15.9	Long	Russet
A02424-83LB	WR	77.9	14.5	41.1	22.3	0.0	21.4	0.7	1.076	16.1	Long	White
CO06057-3RU	SW	78.8	11.6	29.4	37.8	10.9	10.3	0.0	1.075	15.8	Long	Russet
Russet Burbank	WR	39.6	2.6	34.6	2.5	0.0	21.6	38.8	1.060	13.3	Long	Russet
POR06V12-3	WR	74.2	9.6	35.1	29.5	9.5	16.3	0.0	1.073	15.5	Long	Russet
AC05039-2RU	SW	85.1	20.8	49.0	15.3	0.0	14.9	0.0	1.069	14.9	Long	Russet
A03921-2	WR	68.2	8.9	27.2	32.1	13.0	10.4	8.4	1.081	17.0	Long	White
AOTX98152-3RU	TX-CO	80.6	10.9	47.6	22.1	6.1	10.5	2.7	1.071	15.1	Long	White
Average		73.5	9.0	37.9	26.6	6.1	14.0	6.4	1.070	15.1		
L.S.D. (.05)		9.7	3.3	9.7	11.2	6.4	4.1	7.5	0.003	0.6		

Dalhart
Table 2c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 26 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	
Russet Norkotah 296	TX	6.1	6.9	100	1.5	4.6	3.8	4.7	18
ATX91137-1RU	TX-CO	5.1	8.3	100	1.8	4.6	3.2	4.6	61
A03158-2TE	WR	5.5	7.1	100	1.8	4.1	4.0	4.0	14
AO01114-4	WR	5.4	7.0	100	2.0	3.9	3.4	3.9	45
OR05039-4	WR	5.0	7.5	100	1.5	4.2	4.6	4.2	1
A02062-1TE	WR	4.0	8.8	100	1.8	3.7	4.2	3.9	14
Pacific Russet	TX	4.3	8.4	100	2.3	3.9	1.0	4.0	100
AO02060-3	WR	4.3	7.8	100	2.0	4.2	3.7	4.4	39
Russet Norkotah	WR	5.9	5.6	100	1.8	3.5	2.8	3.5	65
CO05175-1RU	WR	4.1	8.0	100	1.5	4.3	4.6	4.5	8
CO03276-5RU	WR	6.5	4.9	100	1.5	4.1	2.5	4.3	81
Shepody	WR	4.1	7.8	100	1.5	4.3	3.9	4.5	29
A06021-1T	WR	4.2	7.5	100	2.0	3.4	3.8	3.6	29
CO05068-1RU	WR	5.7	5.5	100	1.5	4.1	4.8	4.3	3
A06084-1TE	WR	5.3	5.9	100	2.0	4.0	3.8	4.1	36
AOTX96216-2RU	TX-CO	2.7	13.1	88	1.5	4.2	3.5	4.3	41
ATX05142-2RU	SW	4.7	6.6	100	1.5	4.0	3.3	4.2	49
A02507-2LB	WR	3.4	8.4	100	1.8	4.5	4.2	4.5	10
Ranger Russet	WR	4.8	5.6	100	1.8	4.0	4.6	4.1	4
A02424-83LB	WR	4.5	5.9	100	1.5	4.4	4.8	4.5	4
CO06057-3RU	SW	3.4	7.2	100	1.5	3.8	3.6	3.7	35
Russet Burbank	WR	4.7	5.2	100	1.5	4.0	3.6	4.3	35
POR06V12-3	WR	3.5	6.8	100	1.3	4.0	4.4	4.1	10
AC05039-2RU	SW	4.4	5.3	100	2.0	3.0	3.0	3.3	75
A03921-2	WR	2.8	8.1	100	1.5	4.4	4.6	4.5	4
AOTX98152-3RU	TX-CO	3.0	7.4	100	2.0	3.7	3.2	3.6	54
Average		4.6	7.2	100	1.7	4.0	3.7	4.1	32
L.S.D. (.05)		0.8	1.0	2	ns	0.2	0.6	0.2	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 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 26 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
Russet Norkotah 296	TX	1.0	4.5	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	35	0	0	0
ATX91137-1RU	TX-CO	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A03158-2TE	WR	1.0	4.0	4.0	2.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	3	3
AO01114-4	WR	1.0	4.0	4.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
OR05039-4	WR	1.0	4.0	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A02062-1TE	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
Pacific Russet	TX	1.0	3.0	4.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0	8	0	3	0
AO02060-3	WR	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
Russet Norkotah	WR	1.0	4.0	4.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
CO05175-1RU	WR	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	15	0	0	3
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	3
Shepody	WR	1.0	4.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	13	3
A06021-1T	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
CO05068-1RU	WR	1.0	2.5	3.0	3.5	3.0	5.0	5.0	5.0	5.0	5.0	10	0	0	8
A06084-1TE	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
AOTX96216-2RU	TX-CO	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	3.0	33	0	8	8
ATX05142-2RU	SW	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	13	0	0	0
A02507-2LB	WR	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	3
Ranger Russet	WR	1.0	4.0	3.5	3.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	3
A02424-83LB	WR	1.0	4.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
CO06057-3RU	SW	1.0	4.0	4.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Burbank	WR	1.0	4.0	4.0	3.5	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	58	0	0	0
AC05039-2RU	SW	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	10	0	0	0
A03921-2	WR	1.0	3.6	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	10	5
AOTX98152-3RU	TX-CO	1.0	3.5	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	33	0	0	0
Average		1.0	3.9	3.6	3.5	3.6	5.0	5.0	5.0	5.0	4.9	9	0	1	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

Dalhart
Table 2e.

Notes and general rating for all reps of 26 entries in the Western and Southwestern Regional
Russet Trial grown near Dalhart, Texas-2013.

Variety or Selection	Trial	Notes Grading	General Rating Grading
Russet Norkotah 296	TX	, , , too long, pointed	3, 3, 3, 3
ATX91137-1RU	TX-CO	, , BOT++, some oversized,	4.5, 4.5, 4.5, 4.5
A03158-2TE	WR	deep eyes, curved, pointed, ugly, ,	2, 2, 2, 2
AO01114-4	WR	small, , curved, pointed, deep eyes	2.5, 3, 3, 2.5
OR05039-4	WR	, , pear shaped, light net, pointed	2.5, 2.5, 2.5, 2
A02062-1TE	WR	, , skinny, pointed,	2.5, 2.5, 2.5, 2.5
Pacific Russet	TX	oversized, blocky, nice shape, ,	3.7, 3.5, 3.7, 3.7
AO02060-3	WR	, BOT-, , very nice shape	3.6, 3.7, 3.7, 3.6
Russet Norkotah	WR	, rough, pointed, , small	3.5, 3, 3, 3
CO05175-1RU	WR	, curved, pointed, too long, ,	3, 2.5, 3, 2.5
CO03276-5RU	WR	, , small, skinny, pointed,	2, 2, 2, 2
Shepody	WR	, , rough, pear shaped,	3, 2.5, 2.5, 2.5
A06021-1T	WR	pointed, , ,	3.5, 3.3, 3, 3.5
CO05068-1RU	WR	, , rough, ugly, pointed, blocky	3, 3, 2.5, 3
A06084-1TE	WR	, some pointed, ,	3.5, 3.4, 3.4, 3.4
AOTX96216-2RU	TX-CO	knobs, ugly, , oversized, rough	2.5, 2.5, 2.7, 3
ATX05142-2RU	SW	, nice shape, some pointed,	4.5, 3.6, 3.4, 3.8
A02507-2LB	WR	, nice shape, nice skin, oversized	3, 3.5, 3, 3
Ranger Russet	WR	, light skin, skinny, rough, , poor shape	2, 2.5, 2, 2
A02424-83LB	WR	, , light skin, pointed,	2.5, 2.5, 2.5, 2.5
CO06057-3RU	SW	skinny, pointed, , ,	2, 2, 2, 2
Russet Burbank	WR	, , rough, skinny, ugly,	2, 2, 2, 2
POR06V12-3	WR	, hollow heart++, blocky, light set, nice shape	3.7, 3.7, 3.7, 3.5
AC05039-2RU	SW	small, pointed, , ,	2.5, 2.5, 2.5, 2.5
A03921-2	WR	, light net, , nice shape	3.3, 3.5, 3.3, 3.5
AOTX98152-3RU	TX-CO	, BOT-, blocky, nice shape,	3.4, 3.6, 3.8, 3.8

Western Regional and Texas Advanced Red Trial, Dalhart

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

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

- Modoc and NDTX5438-11R had the highest general ratings and best of trial designations, while ATTX98453-6R also received a high general rating (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 NDA050237B-1R had the highest yield of <4 oz. tubers (Table 3b).
- NDTX5438-11R had the highest yield of 4-6 oz. tubers. Chieftain 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).
- NDA050237B-1R had the highest percentage of <4 oz. tubers (Table 3b).
- Chieftain and CO05228-4R had the highest specific gravity (Table 3b).
- ATTX98453-6R had the highest average number of tubers per plant (Table 3c).
- Red LaSoda, BTX2332-1R, and NDA050237B-1R were the latest maturing entries, while Chieftain, Modoc, and ATTX98453-6R were the earliest maturing entries (Table 3c).
- Red LaSoda had the deepest eyes, while Chieftain had the highest percentage of internal brownspot (Table 3d).

Comments on entries:

- | | | |
|-----------------|------------|--|
| • Chieftain | Oblong Red | light skin color, nice shape, some IBS, rough, poor internals |
| • Red LaSoda | Oblong Red | some feathering, nice skin color, deep eyes, some brown center |
| • BTX2332-1R | Round Red | feathering, nice shape and skin |
| • Modoc | Round Red | nice skin, uniform, nice shape, BOT- |
| • NDTX5438-11R | Oblong Red | nice shape and flesh, nice skin color, BOT- |
| • NDA050237B-1R | Oblong Red | nice dark skin color, small, nice shape |
| • ATTX98453-6R | Oblong Red | low yield, nice shape and skin |
| • CO05228-4R | Round Red | nice small size, small, nice skin |

Summary:

Overall, Modoc and NDTX5438-1 IR were the outstanding entries based on all factors.

Dalhart
Table 3a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 8 entries in the Western and Southwestern Regional Red Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
Chieftan	WR	743.4	592.4	63.1	304.7	224.6	3.5	117.2	30.3	3.3
Red LaSoda	WR	678.9	501.8	83.6	226.7	191.5	48.1	129.0	0.0	3.6
BTX2332-1R	TX-CO	645.3	497.0	74.7	214.3	208.1	0.0	148.3	0.0	4.0
Modoc	TX-CO	613.6	477.7	56.0	238.3	183.4	26.3	109.5	0.0	4.0
NDTX5438-11R	WR	518.8	374.2	98.9	164.7	110.6	0.0	144.6	0.0	4.0
NDA050237B-1R	WR	489.9	233.8	89.2	103.7	40.9	3.3	252.9	0.0	3.8
ATTX98453-6R	TX-CO	454.7	336.9	53.9	156.8	126.1	0.0	117.8	0.0	3.9
CO05228-4R	WR	354.1	95.0	47.1	38.4	9.5	0.0	259.1	0.0	3.7
Average		562.3	388.6	70.8	181.0	136.8	10.2	159.8	3.8	3.8
L.S.D. (.05)		66.3	58.8	26.9	49.4	39.3	25.1	36.2	14.9	0.1

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 8 entries in the Western and Southwestern Regional Red Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Chieftan	WR	79.8	8.5	40.7	30.6	0.5	15.6	4.2	1.063	13.7	Oblong	Red
Red LaSoda	WR	73.9	12.2	33.5	28.2	7.1	19.0	0.0	1.057	12.7	Oblong	Red
BTX2332-1R	TX-CO	77.1	11.6	33.4	32.1	0.0	22.9	0.0	1.060	13.3	Round	Red
Modoc	TX-CO	77.9	9.2	38.8	29.9	4.2	17.9	0.0	1.058	12.9	Round	Red
NDTX5438-11R	WR	71.6	20.0	31.3	20.3	0.0	28.4	0.0	1.057	12.7	Oblong	Red
NDA050237B-1R	WR	47.8	18.3	21.2	8.3	0.7	51.5	0.0	1.049	11.2	Oblong	Red
ATTX98453-6R	TX-CO	74.1	11.9	34.5	27.7	0.0	25.9	0.0	1.062	13.6	Oblong	Red
CO05228-4R	WR	26.9	13.3	10.9	2.7	0.0	73.1	0.0	1.063	13.7	Round	Red
Average		66.1	13.1	30.5	22.5	1.6	31.8	0.5	1.059	13.0		
L.S.D. (.05)		6.7	5.4	6.9	6.8	4.0	6.6	1.9	0.004	0.7		

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 8 entries in the Western and Southwestern Regional Red Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
Chieftan	WR	7.8	6.1	100	1.8	3.6	2.6	3.7	66
Red LaSoda	WR	7.5	5.9	100	1.9	4.0	3.8	4.0	15
BTX2332-1R	TX-CO	7.6	5.5	100	1.8	3.9	4.2	3.9	8
Modoc	TX-CO	6.7	6.4	92	2.0	3.2	2.6	3.3	64
NDTX5438-11R	WR	7.8	4.6	94	1.9	3.5	3.8	3.5	18
NDA050237B-1R	WR	8.9	3.8	100	1.5	3.8	4.5	3.9	1
ATTX98453-6R	TX-CO	9.9	5.0	68	1.8	2.9	2.5	3.1	70
CO05228-4R	WR	9.3	2.7	92	2.1	3.2	3.0	3.4	51
Average		8.2	5.0	93	1.8	3.5	3.4	3.6	37
L.S.D. (.05)		ns	0.9	16	0.3	0.4	0.5	0.4	16

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 8 entries in the Western and Southwestern Regional Red Trial grown near Dalhart, Texas-2014.

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	3.0	1.0	4.0	3.0	5.0	5.0	5.0	5.0	3.5	0	0	0	15
Red LaSoda	WR	1.0	3.0	1.0	2.0	3.6	5.0	5.0	5.0	5.0	3.8	0	0	0	0
BTX2332-1R	TX-CO	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	3.2	0	0	0	0
Modoc	TX-CO	1.0	2.0	1.0	4.0	3.9	5.0	5.0	5.0	5.0	4.5	0	0	0	0
NDTX5438-11R	WR	1.0	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.8	0	0	0	0
NDA050237B-1R	WR	1.0	2.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.5	3	0	0	0
ATTX98453-6R	TX-CO	1.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	4.8	0	0	0	0
CO05228-4R	WR	1.0	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	2.6	1.0	3.8	3.8	5.0	5.0	5.0	5.0	4.3	0	0	0	2

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 8 entries in the Western and Southwestern Regional Red
Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
Chieftan	WR	light skin color, nice shape, some IBS, , rough, poor internals	3.3, 3.3, 3.3, 3.3
Red LaSoda	WR	some feathering, nice skin color, deep eyes, some brown center,	3.6, 3.6, 3.6, 3.6
BTX2332-1R	TX-CO	feathering, nice shape and skin, , ,	4, 4, 4, 4
Modoc	TX-CO	, nice skin, uniform, BOT-, nice shape,	4, 3.8, 4, 4
NDTX5438-11R	WR	nice shape and flesh, , , nice skin color, BOT-	4, 4, 4, 4
NDA050237B-1R	WR	, , nice dark skin color, small, nice shape	3.8, 3.8, 3.8, 3.8
ATTX98453-6R	TX-CO	low yield, , nice shape and skin,	3.9, 3.9, 3.9, 3.9
CO05228-4R	WR	nice small size, small, nice skin, ,	3.7, 3.7, 3.7, 3.7

Western Regional and Texas Advanced Red/Yellow Trial, Dalhart

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

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

- ATTX98444S-16R/Y received a high general rating and a best of trial designation, while Sierra Rose, ATTX961014-1BR/Y, and CO05037-2R/Y also received high general ratings (Table 4a and 4f).
- Sierra Rose produced the highest total and marketable yield (Table 4a).
- ATTX98444S-16R/Y had the highest yield of <4 oz. tubers, while Sierra Rose had the highest yield of 4-6 oz. and 10-18 oz. tubers (Table 4a).
- ATTX98514-1R/Y had the highest yield of culls/No. 2 tubers (Table 4a).
- ATTX961014-1BR/Y had the highest percentage of marketable yield. ATTX98444S-16R/Y had the highest percentage of <4 oz. tubers (Table 4b).
- CO04067-8R/Y and ATTX98444S-16R/Y had the highest average number of tubers per plant (Table 4c).
- A05180-3PY and BTX2103-1R/Y were the latest maturing entries, while Sierra Rose and AC05175-3P/Y were the earliest maturing entries (Table 4c).
- ATTX98444S-16R/Y, ATTX98514-1R/Y, ATTX01180-1R/Y, CO04067-8R/Y, and CO05037-2R/Y had the darkest yellow flesh color (Table 4d).

Comments on entries:

- Sierra Rose Oblong Red some nipples, light skin and flesh, some large, silver scurf , FC=3.3
- ATTX98444S-16R/Y Oblong Red some faded skin, nice shape, BOT for small size, FC= 3.5
- A05180-3PY Oblong Purple nice color, rough, silver scurf, some feathering, FC=3
- ATTX98514-1R/Y Oblong Red very light skin, nice dark yellow flesh, FC=3.5
- AC05175-3P/Y Oblong Purple silver scurf, rough, deep eyes, very nice skin, some feathering, light flesh, FC= 2.6
- ATTX01180-1R/Y Oblong Red feathering+, nice skin and flesh, silver scurf, large tubers, FC=3.5
- ATTX961014-1BR/Y Oblong Red some large tubers, smooth skin, nice flesh, FC=3

- BTX2103-1R/Y Oblong Red nice flesh, FC= 3
- CO04067-8R/Y Round Red small, light set, dark yellow flesh, growth cracks++, FC=4
- CO05037-2R/Y Long Red not much curve, slight purple streaks in flesh, fingerling,
nice flesh, silver scurf, FC=3.5

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

Summary:

ATTX98444S-16R/Y was the outstanding entry based on all factors.

Dalhart
Table 4a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 11 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
Sierra Rose	TX-CO	570.6	440.0	146.9	157.6	135.5	8.1	122.6	0.0	3.7
ATX98444S-16R/Y	WR	468.8	43.1	43.1	0.0	0.0	0.0	425.6	0.0	3.8
A05180-3PY	WR	435.4	265.5	125.1	76.5	63.9	0.0	167.4	2.5	3.6
ATX98514-1R/Y	TX-CO	400.3	305.1	126.1	123.4	55.6	0.0	83.0	12.2	3.4
AC05175-3P/Y	WR	395.4	239.6	121.3	80.7	37.5	0.0	155.8	0.0	3.5
ATX01180-1R/Y	TX-CO	375.7	260.1	75.1	69.3	115.7	26.8	88.8	0.0	3.6
ATX961014-1BR/Y	TX-CO	338.9	278.2	85.7	105.4	87.1	0.0	60.8	0.0	3.7
Klondyke Rose	TX-CO	312.4	235.6	64.7	95.4	75.5	0.0	76.7	0.0	2.5
BTX2103-1R/Y	TX-CO	310.9	204.7	87.1	82.8	34.8	0.0	106.2	0.0	3.6
CO04067-8R/Y	WR	256.2	77.0	46.7	30.3	0.0	0.0	124.2	55.0	3.2
CO05037-2R/Y	WR	215.1	23.6	23.6	0.0	0.0	0.0	191.5	0.0	3.8
Average		370.9	215.7	86.0	74.7	55.1	3.2	145.7	6.3	3.5
L.S.D. (.05)		45.5	54.5	28.0	32.2	21.7	15.4	38.2	32.8	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 11 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Sierra Rose	TX-CO	76.9	25.4	27.7	23.7	1.4	21.7	0.0	1.066	14.3	Oblong	Red
ATTX98444S-16R/Y	WR	9.1	9.1	0.0	0.0	0.0	90.9	0.0	1.072	15.4	Oblong	Red
A05180-3PY	WR	61.0	28.5	17.9	14.6	0.0	38.4	0.6	1.057	12.6	Oblong	Purple
ATTX98514-1R/Y	TX-CO	75.4	31.9	30.4	13.2	0.0	20.6	3.9	1.060	13.2	Oblong	Red
AC05175-3P/Y	WR	60.1	30.6	20.1	9.5	0.0	39.9	0.0	1.055	12.4	Oblong	Purple
ATTX01180-1R/Y	TX-CO	68.8	19.5	18.7	30.5	7.1	24.2	0.0	1.062	13.6	Oblong	Red
ATTX961014-1BR/Y	TX-CO	81.2	25.2	30.5	25.5	0.0	18.8	0.0	1.064	14.0	Oblong	Red
Klondyke Rose	TX-CO	75.5	20.7	30.6	24.2	0.0	24.5	0.0	1.064	13.9	Long	Red
BTX2103-1R/Y	TX-CO	64.3	28.5	26.1	9.7	0.0	35.7	0.0	1.061	13.5	Oblong	Red
CO04067-8R/Y	WR	30.7	18.5	12.2	0.0	0.0	49.6	19.7	1.065	14.1	Round	Red
CO05037-2R/Y	WR	9.5	9.5	0.0	0.0	0.0	90.5	0.0	1.070	15.0	Long	Red
Average		55.7	22.5	19.5	13.7	0.8	41.4	2.2	1.063	13.8		
L.S.D. (.05)		8.8	7.0	7.0	6.3	4.1	9.7	ns	0.004	0.7		

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 11 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
Sierra Rose	TX-CO	7.5	4.9	100	1.5	4.0	3.0	3.8	59
ATTX98444S-16R/Y	WR	12.0	2.5	100	4.9	3.0	3.9	4.1	18
A05180-3PY	WR	11.3	3.4	75	1.9	3.7	4.5	3.8	3
ATTX98514-1R/Y	TX-CO	6.1	4.6	94	1.8	3.6	3.5	3.7	29
AC05175-3P/Y	WR	10.5	3.6	77	1.9	3.1	2.6	3.6	60
ATTX01180-1R/Y	TX-CO	6.1	5.0	83	2.0	3.5	3.6	3.6	31
ATTX961014-1BR/Y	TX-CO	7.1	5.3	63	1.5	3.3	3.2	3.7	41
Klondyke Rose	TX-CO	11.8	5.1	33	1.5	2.5	3.8	3.7	18
BTX2103-1R/Y	TX-CO	6.5	4.1	78	1.5	3.6	4.0	3.7	9
CO04067-8R/Y	WR	12.9	3.2	42	1.9	2.5	3.8	3.5	20
CO05037-2R/Y	WR	6.4	2.1	100	1.0	3.0	3.2	3.1	35
Average		8.9	4.0	77	1.9	3.2	3.5	3.6	29
L.S.D. (.05)		3.3	0.8	21	ns	ns	0.6	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

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 11 entries in the Western and Southwestern Regional Red/Yellow Trial grown near Dalhart, Texas-2014.

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
Sierra Rose	TX-CO	3.3	3.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	4.5	0	0	0	0
ATTX98444S-16R/Y	WR	3.5	3.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	4.5	0	0	0	0
A05180-3PY	WR	3.0	3.0	1.0	3.5	5.0	5.0	5.0	5.0	5.0	3.8	0	0	0	0
ATTX98514-1R/Y	TX-CO	3.5	3.0	1.0	4.0	3.0	5.0	5.0	5.0	5.0	4.5	0	0	0	0
AC05175-3P/Y	WR	2.6	3.0	1.0	3.5	5.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
ATTX01180-1R/Y	TX-CO	3.5	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	3.5	0	0	0	0
ATTX961014-1BR/Y	TX-CO	3.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	4.5	0	0	0	0
Klondyke Rose	TX-CO	3.0	4.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	4.5	20	0	0	0
BTX2103-1R/Y	TX-CO	3.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	4.0	0	0	0	0
CO04067-8R/Y	WR	4.0	2.0	1.0	4.0	3.5	3.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05037-2R/Y	WR	3.5	4.0	1.0	4.0	3.5	5.0	5.0	5.0	5.0	4.5	0	0	0	0
Average		3.3	3.1	1.0	3.9	3.8	4.8	5.0	5.0	5.0	4.3	2	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 11 entries in the Western and Southwestern Regional
Red/Yellow Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
Sierra Rose	TX-CO	some nipples, light skin and flesh, some large, silver scurf, ,	3.7, 3.7, 3.7, 3.7
ATTX98444S-16R/Y	WR	BOT for small size, some faded skin, nice shape, ,	3.8, 3.8, 3.8, 3.8
A05180-3PY	WR	, , nice color, rough, silver scurf, some feathering	3.6, 3.7, 3.5, 3.7
ATTX98514-1R/Y	TX-CO	very light skin, nice dark yellow flesh, , ,	3.3, 3.3, 3.5, 3.3
AC05175-3P/Y	WR	, silver scurf, rough, deep eyes, very nice skin, some feathering, light flesh,	3.6, 3.3, 3.5, 3.5
ATTX01180-1R/Y	TX-CO	feathering+, nice skin and flesh, silver scurf, large tubers, ,	3.6, 3.6, 3.5, 3.6
ATTX961014-1BR/Y	TX-CO	some large tubers, smooth skin, nice flesh, ,	3.7, 3.8, 3.6, 3.8
Klondyke Rose	TX-CO	, hollow heart, , poor shape too long	2.5, 2.5, 2.5, 2.5
BTX2103-1R/Y	TX-CO	nice flesh, , ,	3.6, 3.6, 3.6, 3.7
CO04067-8R/Y	WR	, small, light set, dark yellow flesh, , growth cracks++	3.3, 3, 3.3, 3
CO05037-2R/Y	WR	not much curve, slight purple streaks in flesh, , fingerling, nice flesh, silver scurf,	3.8, 3.8, 3.8, 3.8

Western Regional and Texas Advanced White/Yellow Trial, Dalhart

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

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

- Sierra Gold and ATX05202S-3W/Y had the highest general ratings and a best of trial designations, while A05182-7RY and Yukon Gold also had high general ratings (Table 5a and 5e).
- CO05035-1PW/Y produced the highest total and marketable yield, while TXYG057 had the highest yield of over 18 oz. tubers (Table 5a).
- NDA081451CB-1CY had the highest yield of <4 oz. tubers, while BTX1544-2W/Y had the highest yield of culls/No. 2 tubers (Table 5a).
- CO05037-3W/Y had the highest percentage of marketable yield, while NDA081451CB-1CY had the highest percentage of <4 oz. tubers (Table 5b).
- CO04099-3W/Y had the highest specific gravity (Table 5b).
- NDA081451CB-1CY had the highest average number of tubers per plant (Table 5c).
- CO05035-1PW/Y, NDA081451CB-1CY, A05182-7RY, A02267-1Y, CO05037-3W/Y, and ATX05202S-3W/Y were the latest maturing entries, while BTX1544-2W/Y and TXYG057 were the earliest maturing entries (Table 5c).
- NDA081451CB-1CY, Yukon Gold, TXYG057, and CO04099-3W/Y had the darkest flesh color (Table 5d).

Comments on entries:

- CO05035-1PW/Y Oblong Pinto poor shape, pinto, drop, FC=2.5
- NDA081451CB-1CY Round White nice shape and size, small, nice flesh, sticky stolons++, FC=3.5
- BTX1544-2W/Y Oblong White some rough, 10% ZC?, blocky, nice shape, light flesh, FC=2.5
- Sierra Gold Oblong Russet nice skin, shape, and flesh, BOT, FC=3.0
- A05182-7RY Round White heavy set, sticky stolon, smooth skin, not red skin, nice small shape, FC=2.5
- A02267-1Y Round White small, rough, light flesh, deep eyes, FC=2.0
- CO05037-3W/Y Long Russet Russet not yellow flesh, FC=1.0
- Yukon Gold Oblong White nice shape and flesh, FC=3.5
- ATX05202S-3W/Y Round White very nice small shape, BOT, FC=3.0

- TXYG057 Oblong White nice dark yellow flesh, nice shape, large tubers, FC=3.5
- CO04099-3W/Y Oblong White nice flesh, red eyes, nice shape, FC=3.5

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

Summary:

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

Dalhart
Table 5a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 11 entries in the Western and Southwestern Regional White/Yellow Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
CO05035-1PW/Y	SW	660.0	511.5	152.7	186.7	172.2	39.8	108.7	0.0	1.5
NDA081451CB-1CY	WR	617.5	86.5	78.0	8.5	0.0	0.0	531.0	0.0	3.5
BTX1544-2W/Y	TX-CO	573.1	389.8	138.8	147.1	103.9	9.7	154.9	18.7	3.0
Sierra Gold	TX-CO	521.3	395.2	109.5	106.2	179.4	7.5	118.6	0.0	4.0
A05182-7RY	WR	515.3	96.0	73.6	22.4	0.0	0.0	419.2	0.0	3.8
A02267-1Y	WR	509.4	202.2	111.0	75.3	16.0	0.0	307.2	0.0	3.0
CO05037-3W/Y	WR	508.4	407.0	136.9	171.1	98.9	7.9	91.9	1.7	3.5
Yukon Gold	WR	483.1	373.4	52.9	161.2	159.3	43.1	66.6	0.0	3.7
ATX05202S-3W/Y	WR	472.1	104.1	83.0	21.2	0.0	0.0	368.0	0.0	4.0
TXYG057	TX-CO	420.0	313.2	58.9	133.2	121.1	60.6	46.3	0.0	3.6
CO04099-3W/Y	WR	376.1	144.0	69.5	52.3	22.2	0.0	232.1	0.0	3.6
Average		514.2	274.8	96.8	98.6	79.4	15.3	222.2	1.8	3.4
L.S.D. (.05)		53.2	59.1	38.7	40.2	31.6	26.7	49.3	ns	0.1

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 11 entries in the Western and Southwestern Regional White/Yellow Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
CO05035-1PW/Y	SW	77.5	23.1	28.3	26.1	6.1	16.4	0.0	1.060	13.2	Oblong	Pinto
NDA081451CB-1CY	WR	14.2	12.8	1.4	0.0	0.0	85.8	0.0	1.070	15.1	Round	White
BTX1544-2W/Y	TX-CO	68.0	24.3	25.6	18.1	1.6	27.2	3.2	1.069	14.8	Oblong	White
Sierra Gold	TX-CO	75.4	22.1	18.7	34.6	1.1	23.5	0.0	1.069	14.9	Oblong	Russet
A05182-7RY	WR	18.2	13.9	4.2	0.0	0.0	81.8	0.0	1.059	13.0	Round	White
A02267-1Y	WR	40.7	22.1	15.1	3.6	0.0	59.3	0.0	1.060	13.2	Round	White
CO05037-3W/Y	WR	79.8	26.5	33.9	19.4	1.6	18.2	0.4	1.068	14.6	Long	White
Yukon Gold	WR	77.6	11.0	33.5	33.0	8.5	13.9	0.0	1.071	15.2	Oblong	White
ATX05202S-3W/Y	WR	21.6	17.5	4.2	0.0	0.0	78.4	0.0	1.063	13.7	Round	White
TXYG057	TX-CO	74.7	14.2	31.8	28.7	14.3	11.0	0.0	1.071	15.1	Oblong	White
CO04099-3W/Y	WR	37.8	18.5	13.8	5.6	0.0	62.2	0.0	1.073	15.5	Oblong	White
Average		53.2	18.7	19.1	15.4	3.0	43.4	0.3	1.067	14.4		
L.S.D. (.05)		9.0	7.7	7.5	5.2	5.0	8.6	ns	0.004	0.6		

Dalhart
Table 5c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 11 entries in the Western and Southwestern Regional White/Yellow Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
CO05035-1PW/Y	SW	7.1	6.0	100	1.5	3.9	4.5	4.0	8
NDA081451CB-1CY	WR	14.0	2.8	100	1.6	4.4	4.6	4.4	5
BTX1544-2W/Y	TX-CO	7.4	5.0	100	2.1	3.7	2.5	3.7	75
Sierra Gold	TX-CO	6.0	5.5	100	1.5	3.8	3.6	3.8	28
A05182-7RY	WR	13.9	2.4	100	1.5	3.9	4.5	3.9	4
A02267-1Y	WR	10.5	3.1	100	1.6	4.1	4.3	4.1	11
CO05037-3W/Y	WR	7.4	5.4	83	1.9	3.4	4.0	3.5	25
Yukon Gold	WR	4.4	7.1	100	1.0	3.6	3.0	3.6	58
ATX05202S-3W/Y	WR	12.2	2.5	100	1.9	4.2	4.8	4.1	4
TXYG057	TX-CO	3.5	7.9	100	1.3	3.4	2.6	3.5	75
CO04099-3W/Y	WR	7.6	3.2	100	1.6	3.5	3.2	3.6	49
Average		8.5	4.6	98	1.6	3.8	3.8	3.8	31
L.S.D. (.05)		1.5	0.7	8	0.4	0.3	0.6	0.2	16

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 11 entries in the Western and Southwestern Regional White/Yellow Trial grown near Dalhart, Texas-2014.

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
CO05035-1PW/Y	SW	2.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	5
NDA081451CB-1CY	WR	3.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX1544-2W/Y	TX-CO	2.5	3.0	1.0	3.8	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Sierra Gold	TX-CO	3.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
A05182-7RY	WR	2.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A02267-1Y	WR	2.0	2.0	1.0	3.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05037-3W/Y	WR	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Yukon Gold	WR	3.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05202S-3W/Y	WR	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXYG057	TX-CO	3.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
CO04099-3W/Y	WR	3.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
Average		2.8	2.7	1.3	3.9	1.3	5.0	5.0	5.0	5.0	5.0	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 5e. Notes and general rating for all reps of 11 entries in the Western and Southwestern Regional White/Yellow Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
CO05035-1PW/Y	SW	, , drop, poor shape, pinto,	1.5, 1.5, 1.5, 1.5
NDA081451CB-1CY	WR	, nice shape and size, small, nice flesh, sticky stolons++,	3.5, 3.5, 3.5, 3.5
BTX1544-2W/Y	TX-CO	, , some rough, 10% ZC?, blocky, nice shape, light flesh	3, 3, 3, 3
Sierra Gold	TX-CO	, nice skin, shape, and flesh, BOT,	4, 4, 4, 4
A05182-7RY	WR	heavy set, sticky stolon, , smooth skin, not red skin, nice small shape	3.8, 3.8, 3.8, 3.7
A02267-1Y	WR	, small, rough, light flesh, , deep eyes	3, 3, 3, 3
CO05037-3W/Y	WR	, , , Russet not yellow flesh	3.5, 3.5, 3.5, 3.5
Yukon Gold	WR	, , , nice shape and flesh	3.7, 3.6, 3.7, 3.7
ATX05202S-3W/Y	WR	, , , very nice small shape, BOT	4, 4, 4, 4
TXYG057	TX-CO	nice dark yellow flesh, , nice shape, large tubers	3.6, 3.5, 3.7, 3.5
CO04099-3W/Y	WR	, , nice flesh, red eyes, nice shape	3.3, 3.6, 3.6, 3.7

Southwestern Regional and Texas Advanced Purple Flesh Selection Trial, Dalhart

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

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

- CO05079-4P/PW, NDTX102903-6R/R, TX09429-1P/P, and NDTX091886-3P/P had the highest general ratings (Table 6e).
- CO05028-4P/PY had the highest total yield and yield of <4 oz. tubers, while NDTX102903-6R/R had the highest marketable yield (Table 6a).
- NDTX102903-6R/R had the highest percentage of marketable yield (Table 6b).
- CO05028-4P/PY had the highest percent yield of <4 oz. tubers (Table 6b).
- Purple Majesty had the highest number of tubers per plant (Table 6c).
- CO05079-4P/PW was the latest maturing entry, while TX09429-1P/P was the earliest maturing entry (Table 6c).
- CO05079-4P/PW, TX09429-1P/P, NDTX091886-3P/P, and Purple Majesty had the darkest purple flesh (Table 6d).

Comments on entries:

- CO05028-4P/PY Oblong Purple heavy set, road map, violet skin color, purple white flesh, rough, FC=3.5
- CO05079-4P/PW Long Purple nice skin, blocky, solid flesh color, smooth skin, nice shape, FC=4.5
- NDTX102903-6R/R Oblong Purple red-purple skin color, some road map, pale red flesh, FC=3.5
- CO05028-11P/RWP Oblong Purple rough, road map, violet skin color, red white flesh, FC=3.5
- TX09429-1P/P Oblong Purple light set, FC=4.2
- NDTX091886-3P/P Round Purple nice shape and smooth skin, FC=4.3
- Purple Majesty Oblong Purple nice flesh, FC=4.0

¹FC=flesh color rating 1=light to 5= dark

Summary:

CO05079-4P/PW, NDTX102903-6R/R, TX09429-1P/P, and NDTX091886-3P/P were the outstanding entries 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 7 entries in the Southwestern Regional and Texas Advanced Purple Flesh Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
CO05028-4P/PY	SW	598.2	323.6	154.3	104.3	64.9	0.0	274.6	0.0	3.6
CO05079-4P/PW	SW	563.4	320.1	116.2	113.9	90.0	0.0	243.3	0.0	3.7
NDTX102903-6R/R	TXPFL	511.9	339.4	165.1	93.8	80.5	0.0	172.6	0.0	3.7
CO05028-11P/RWP	SW	435.0	249.3	112.0	74.1	63.3	0.0	185.6	0.0	3.4
TX09429-1P/P	TXPFL	362.3	209.9	69.4	98.2	42.3	0.0	152.4	0.0	3.7
NDTX091886-3P/P	TXPFL	272.1	165.7	52.8	66.1	46.7	0.0	106.5	0.0	3.7
Purple Majesty	SW	228.0	141.3	51.0	55.8	34.4	0.0	86.7	0.0	3.5
Average		424.4	249.9	103.0	86.6	60.3	0.0	174.5	0.0	3.6
L.S.D. (.05)		73.1	69.2	32.8	30.3	44.3		49.9		0.1

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, specific gravity, tuber type and skin type of 7 entries in the Southwestern Regional and Texas Advanced Purple Flesh Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
CO05028-4P/PY	SW	54.1	25.5	18.0	10.6	0.0	45.9	0.0	1.065	14.1	Oblong	Purple
CO05079-4P/PW	SW	56.5	20.5	20.2	15.8	0.0	43.5	0.0	1.073	15.6	Long	Purple
NDTX102903-6R/R	TXPFL	66.3	32.3	18.3	15.7	0.0	33.7	0.0	1.057	12.6	Oblong	Purple
CO05028-11P/RWP	SW	56.0	26.2	17.1	12.8	0.0	44.0	0.0	1.068	14.6	Oblong	Purple
TX09429-1P/P	TXPFL	57.1	18.5	26.9	11.7	0.0	42.9	0.0	1.069	14.8	Oblong	Purple
NDTX091886-3P/P	TXPFL	60.9	19.4	24.5	17.0	0.0	39.1	0.0	1.075	15.8	Round	Purple
Purple Majesty	SW	62.0	12.1	24.5	15.1	0.0	38.0	0.0	1.065	14.1	Oblong	Purple
Average		59.0	22.0	21.4	14.1	0.0	41.0	0.0	1.067	14.5		
L.S.D. (.05)		ns	7.7	7.8	ns		ns		0.003	1.9		

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 7 entries in the Southwestern Regional and Texas Advanced Purple Flesh Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
CO05028-4P/PY	SW	10.7	3.7	100	1.5	4.3	3.6	4.4	38
CO05079-4P/PW	SW	10.6	3.4	100	1.5	4.5	4.2	4.7	5
NDTX102903-6R/R	TXPFL	8.1	4.0	100	2.0	3.6	3.0	3.7	75
CO05028-11P/RWP	SW	9.9	3.7	79	1.5	4.0	3.5	4.1	39
TX09429-1P/P	TXPFL	6.5	3.8	94	1.5	3.7	2.2	3.7	62
NDTX091886-3P/P	TXPFL	6.0	3.8	78	1.5	3.2	3.0	3.6	55
Purple Majesty	SW	11.8	3.7	33	1.5	2.3	3.2	3.6	46
Average		9.1	3.7	92	1.6	3.9	3.2	4.0	46
L.S.D. (.05)		1.9	ns	11	0.1	0.4	0.8	0.3	26

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 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 Southwestern Regional and Texas Advanced Purple Flesh Selection Trial grown near Dalhart, Texas-2014.

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
CO05028-4P/PY	SW	3.5	3.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05079-4P/PW	SW	4.5	4.0	1.0	3.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102903-6R/R	TXPFL	3.5	3.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO05028-11P/RWP	SW	3.5	2.5	1.0	4.0	5.0	3.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09429-1P/P	TXPFL	4.2	2.3	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX091886-3P/P	TXPFL	4.3	2.2	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Purple Majesty	SW	4.0	3.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.9	2.9	1.0	3.9	5.0	4.7	5.0	5.0	5.0	5.0	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

Dalhart
Table 6e.

Notes and general rating for all reps of 7 entries in the Southwestern Regional and Texas
Advanced Purple Flesh Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
CO05028-4P/PY	SW	heavy set, road map, violet skin color, purple white flesh, rough, ,	3.6, 3.6, 3.6, 3.6
CO05079-4P/PW	SW	nice skin, blocky, solid flesh color, smooth skin, nice shape,	3.6, 3.7, 3.7, 3.7
NDTX102903-6R/R	TXPFL	red-purple skin color, some road map, pale red flesh, , ,	3.7, 3.7, 3.7, 3.7
CO05028-11P/RWP	SW	rough, road map, violet skin color, red white flesh, , ,	3.3, 3.4, 3.5, 3.4
TX09429-1P/P	TXPFL	light set, , ,	3.6, 3.6, 3.8, 3.8
NDTX091886-3P/P	TXPFL	, nice shape and smooth skin, ,	3.8, 3.8, 3.6, 3.6
Purple Majesty	SW	, nice flesh, ,	3.5, 3.5, 3.5, 3.5

Commercial Variety Chip Trial, Dalhart

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

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

- Manistee received a high general rating, a best of trial designation for tuber appearance and chip quality. NY148 received a high general rating and a best of trial designation for tuber appearance, while FL1867 and Lamoka received high general ratings. (Table 7a, 7e, and 7f).
- FL1867 had the highest total and marketable yield (Table 7a).
- Pinnacle had the highest yield of <4 oz. tubers, while Atlantic had the highest yield of culls/No. 2 tubers (Table 7a).
- Lamoka had the highest percentage of marketable yield. Lamoka had the highest percentage of <4 oz. tubers (Table 7b).
- Manistee had the highest specific gravity (Table 7b).
- Megachip, Nicolet, NY148, Lamoka, and Pinnacle were the latest maturing entries, while FL1867, Manistee, and Atlantic were the earliest maturing entries (Table 7c).
- Atlantic had the highest percentage of hollow heart, while Nicolet and Atlantic had the highest percentages of internal brownspot (Table 7d).

Comments on entries:

- FL1867 Oblong White yield+, nice shape, CR=1.0
- Manistee Round White yield+, BOT for tuber appearance and chip quality, CR= 1.0
- Megachip Round White uniform, smooth, nice flesh, CR=1.0
- FL2137 Oblong White too oblong, poor internals, poor shape, CR=1.0
- Nicolet Oblong White nice size, uniform, CR=1.0
- Atlantic Oblong Buff hollow heart in large tubers, large tubers, nice shape, CR=1.0
- NY148 Round White nice size, BOT, one bad rep, CR=1.0
- Lamoka Oblong White nice size and shape, one bad rep, CR=2.0
- Pinnacle Round White small+, nice shape, CR=1.0

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

Summary:

Manistee was the outstanding entry based on all factors.

Dalhart
Table 7a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 9 entries in the Commercial Variety Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
FL1867	Comm	576.0	487.2	91.1	201.4	194.8	4.4	84.4	0.0	4.0
Manistee	Comm	474.2	401.0	71.6	194.8	134.6	0.0	73.2	0.0	3.9
Megachip	Comm	439.7	380.2	50.4	202.7	127.2	0.0	59.5	0.0	3.7
FL2137	Comm	432.9	374.2	62.2	143.7	168.2	18.0	34.8	5.8	3.2
Nicolet	Comm	421.5	341.8	71.6	183.4	86.9	0.0	75.5	4.1	3.6
Atlantic	Comm	327.5	242.5	30.7	108.1	103.7	37.3	30.9	16.8	3.6
NY148	Comm	310.7	240.0	61.4	122.8	55.8	0.0	70.7	0.0	4.0
Lamoka	Comm	297.5	270.7	40.7	102.9	127.2	0.0	26.8	0.0	3.8
Pinnacle	Comm	239.0	74.7	28.8	27.4	18.5	0.0	163.7	0.6	3.5
Average		391.0	312.5	56.5	143.0	113.0	6.6	68.8	3.0	3.7
L.S.D. (.05)		49.4	32.0	8.0	27.0	11.5	ns	25.4	ns	0.1

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 9 entries in the Commercial Variety Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
FL1867	Comm	84.6	15.8	34.9	33.9	0.8	14.6	0.0	1.073	15.6	Oblong	White
Manistee	Comm	84.5	15.1	40.9	28.4	0.0	15.5	0.0	1.083	17.3	Round	White
Megachip	Comm	86.6	11.5	45.7	29.4	0.0	13.4	0.0	1.074	15.7	Round	White
FL2137	Comm	86.8	14.3	33.5	38.9	3.7	8.3	1.2	1.078	16.4	Oblong	White
Nicolet	Comm	81.2	17.1	43.4	20.6	0.0	17.8	1.0	1.071	15.2	Oblong	White
Atlantic	Comm	77.7	10.2	33.3	34.2	8.7	9.6	3.9	1.077	16.3	Oblong	Buff
NY148	Comm	77.1	19.9	39.1	18.2	0.0	22.9	0.0	1.070	15.0	Round	White
Lamoka	Comm	91.1	13.7	34.4	43.0	0.0	8.9	0.0	1.077	16.3	Oblong	White
Pinnacle	Comm	32.1	12.2	12.4	7.5	0.0	67.6	0.3	1.075	16.0	Round	White
Average		78.0	14.4	35.3	28.2	1.5	19.9	0.7	1.075	16.0		
L.S.D. (.05)		7.2	1.9	5.1	4.9	5.6	3.9	ns	0.005	0.9		

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 9 entries in the Commercial Variety Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
FL1867	Comm	6.7	5.5	100	2.0	3.8	3.2	3.9	63
Manistee	Comm	5.3	5.8	100	1.8	4.1	3.6	4.0	36
Megachip	Comm	5.1	5.5	100	1.8	4.3	5.0	4.5	0
FL2137	Comm	4.6	6.0	100	1.5	4.2	4.6	4.4	3
Nicolet	Comm	5.7	4.8	100	1.7	4.1	5.0	4.1	3
Atlantic	Comm	3.0	7.3	96	1.5	3.8	3.4	4.3	48
NY148	Comm	4.5	4.4	100	1.8	3.7	5.0	3.7	0
Lamoka	Comm	3.3	5.8	100	1.5	4.0	5.0	4.3	0
Pinnacle	Comm	6.0	2.5	100	1.8	3.8	5.0	4.0	0
Average		4.9	5.3	100	1.7	4.0	4.4	4.1	17
L.S.D. (.05)		0.7	0.7		0.2	0.3	0.3	0.3	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 7d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 9 entries in the Commercial Variety Trial grown near Dalhart, Texas-2014.

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
FL1867	Comm	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	7	0	0	0
Manistee	Comm	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	7	0	0	3
Megachip	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
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	7
Nicolet	Comm	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	7	0	0	10
Atlantic	Comm	1.0	3.0	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	43	0	0	10
NY148	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
Lamoka	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
Pinnacle	Comm	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	7	0	0	3
Average		1.0	2.6	1.1	4.0	1.1	5.0	5.0	5.0	5.0	5.0	8	0	0	4
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 7e.

Notes and general rating for all reps of 9 entries in the Commercial Variety Trial grown near
Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
FL1867	Comm	yield+, nice shape, ,	4, 4, 4, 4
Manistee	Comm	, yield+, , BOT	3.9, 3.9, 3.9, 3.9
Megachip	Comm	uniform, , smooth, nice flesh,	3.8, 3.7, 3.7, 3.7
FL2137	Comm	too oblong, poor internals, , poor shape,	3, 3.2, 3, 3.5
Nicolet	Comm	nice size, uniform, , too large, hollow heart in large tubers, , large tubers,	3.5, 3.8, 3.6, 3.5
Atlantic	Comm	nice shape, bad rep	3.5, 3.6, 3.8, 3.5
NY148	Comm	nice size, BOT, , bad rep	4, 4, 4, 4
Lamoka	Comm	nice size and shape, , , bad rep	3.8, 3.8, 3.8, 3.8
Pinnacle	Comm	small+, , , nice shape	3.5, 3.5, 3.5, 3.5

Dalhart
Table 7f.

Specific gravity, percent solids, chip color rating, good chip bad chip ratio, notes, and percentage of Zebra Defect at chipping of 9 entries in the Commercial Variety Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Gravity	% Solids	Chip Color ²	Good/Bad Chip Ratio	Notes ³	Percent Zebra Defect
FL1867	Comm	1.073	15.6	1	15/17	6 SE 2	0%
Manistee	Comm	1.083	17.3	1	31/0	BOT	0%
Megachip	Comm	1.074	15.7	1	13/15	8 SE 3	0%
FL2137	Comm	1.078	16.4	1	8/22	9 SE 3, 5 Sugar End	0%
Nicolet	Comm	1.071	15.2	1	46/4	1 BC, 3 SE 2	0%
Atlantic	Comm	1.077	16.3	1	9/18	3 Mech, 5 SE 3	4%
NY148	Comm	1.070	15.0	1	11/18	3 SE2	0%
Lamoka	Comm	1.077	16.3	2	22/9	6 SE 3	0%
Pinnacle	Comm	1.075	16.0	1	12/16	5 SE 3	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

Texas Advanced Chip Selection Trial, Dalhart

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

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

- NDTX091908AB-2W and NDTX113218C-3W were the outstanding entries for this trial based on general rating and best of trial designation for tuber and chip quality, while NDTX102852CB-3Ru, TX09396-1W, NDTX113059-1W, NDTX102461AB-4W, Waneta, NDTX081644CAB-2W, and NDTX060700C-1W received best of trial designations for chip quality (Tables 8a, 8e, and 8f).
- NDTX102852CB-3Ru had the highest total and marketable yield. NDTX102643CAB-1W had the highest yield of 4-6 oz. tubers (Table 8a).
- NDTX102640Cb-1W had the highest yield of <4 oz. tubers. WTX10646-7W had the highest yield of culls/No. 2 tubers (Table 8a).
- WTX10666-5W had the highest percentage of marketable yield. NDTX102643CAB-1W had the highest percentage of 4-6 oz. tubers, while NDTX060700C-1W had the highest percentage of <4 oz. tubers. WTX10646-7W had the highest percentage of culls/No. 2 tubers (Table 3b).
- NDTX060700C-1W had the highest specific gravity (Table 8b).
- NDTX102514ABC-5W had the highest average number of tubers per plant (Table 8c).
- COTX10076-8W, COTX10076-7W, COTX10076-1W, WTX10640-2W, WTX10640-3W, WTX10666-8W, and WTX10666-5W were the latest maturing entries, while NDTX113218C-3W, NDTX102557-1W, and NDTX081648CB-1W were the earliest maturing entries (Table 8c).
- NDTX102852CB-3Ru, COTX10079-11W, WTX10646-7W, NDTX102852CB-4Ru, COTX09089-1Ru, and Atlantic had the highest percentage hollow heart (Table 8d).
- NDTX102643CAB-1W and Atlantic had the highest percentage of internal brownspot (Table 8d).
- NDTX102852CB-3Ru, NDTX060700C-1W, WTX10646-2W, NDTX113218C-2W, NDTX081644CAB-2W, NDTX113218C-3W, COTX10079-11W, TX09403-14W, and Waneta had over 90% good chips (Table 8f).

Comments on entries:

- NDTX102852CB-3Ru Oblong Russet nice shape, large tubers, chip general rating BOT+, CR=1.0
- NDTX102514ABC-5W Oblong White uniform, heavy set, BOT, chip general rating Nice, CR=1.0

- NDTX102643CAB-1W Round White smooth, poor internals, chip general rating No Data, CR=No Data
- COTX10079-11W Oblong White smooth, hollow heart, chip general rating Keep, CR=1.0
- WTX10646-7W Oblong White poor internals, ugly+, poor shape, rough, hollow heart, chip general rating Drop, CR=1.0
- COTX09022-5RE/Y Oblong White red eyes, deep eyes, nice yellow flesh+, chip general rating Drop, CR=3.0
- NDTX102640Cb-1W Round White heavy set, uniform, chip general rating Keep, CR=1.0
- NDTX113266C-1W Oblong White heavy set, too oblong, shape??. chip general rating Keep, CR=1.0
- NDTX102702C-1W Oblong White large tubers, chip general rating Keep-, CR=1.0
- NDTX091908AB-2W Round White BOT++, very nice, chip general rating BOT-, Nice, CR=1.0
- NDTX113277-1W Oblong White some rough, hollow heart, poor shape, chip general rating Keep, CR=1.0
- NDTX102852CB-4Ru Oblong Russet nice shape, hollow heart, large tubers, chip general rating no data, CR=1.0
- COTX10076-8W Round White smooth, chip general rating Keep, CR=1.0
- COTX09089-1Ru Oblong Russet severe hollow heart, nice shape, poor internals, drop for hollow heart, chip general rating Drop, CR=1.0
- NDTX102462C-6W Oblong White nice smooth, BOT, chip general rating Keep, CR=2.0
- Atlantic Oblong Buff nice shape, buff skin, poor internals, chip general rating Drop/Keep, CR=1.0
- TX09396-1W Long White rough, large tubers, chip general rating BOT-, Keep, CR=1.0
- NDTX113281B-1W Oblong White small, poor shape, chip general rating Drop?, CR=1.0
- NDTX113218C-3W Oblong White nice shape, BOT-, smooth, chip general rating BOT+, CR=1.0
- NDTX102462C-2W Oblong White large tubers, nice shape, nice size, chip general rating Drop, CR=3.0
- NDTX113059-1W Oblong White smooth, chip general rating BOT, Keep, CR=1.0
- NDTX113218C-2W Oblong White poor shape, better shape, chip general rating Keep, CR=1.0
- NDTX071109C-1W Oblong White large tubers, light set, nice shape, chip general rating Keep-, CR=1.0
- COTX10076-7W Round White small, nice shape, chip general rating Keep-, CR=1.0
- TX09403-14W Round White nice shape and size, chip general rating Keep-, CR=2.0
- NDTX102461AB-4W Oblong White smooth skin, nice shape chip general rating BOT-, CR=1.0
- NDTX102557-1W Oblong White smooth, shape??. better shape, chip general rating Drop, CR=1.0
- COTX10076-11W Oblong White very nice shape, BOT-, chip general rating Keep-, CR=1.0
- COTX10076-1W Round White smooth, chip general rating Keep-, CR=2.0
- WTX10640-2W Round White poor shape++, very small, chip general rating Keep, CR=1.0
- Waneta Round White nice shape, chip general rating BOT++, CR=1.0

- COTX10031-1W Round White nice shape, BOT-, chip general rating Keep-, CR=1.0
- NDTX081648CB-13W Round White light set, nice shape, chip general rating Keep-, CR=1.0
- WTX10640-3W Oblong White poor internals, small, poor shape, chip general rating Keep-, CR=1.0
- WTX10646-2W Oblong White chip general rating Keep, CR=1.0
- NDTX081648CB-4W Round White hollow heart, chip general rating Keep-, CR=1.0
- NDTX081644CAB-2W Oblong White small tubers, bad rep, chip general rating BOT, CR=1.0
- WTX10666-8W Round White poor shape, chip general rating Keep, CR=1.0
- NDTX081648CB-1W Oblong White smooth, chip general rating Keep, CR=1.0
- NDTX060700C-1W Round White too small, small potato candidate, chip general rating BOT+, CR=1.0
- WTX10666-5W Round White poor yield, chip general rating Drop, CR=3.0

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

Summary:

NDTX091908AB-2W and NDTX113218C-3W 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.

Dalhart
Table 8a.

Total yield, total yield of U.S. No. 1, under 4 ounce and culls/No.2 potatoes and general rating of 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
NDTX102852CB-3Ru	TXCH	706.9	527.7	102.9	144.4	280.4	96.2	83.0	0.0	3.8
NDTX102514ABC-5W	NATCH	510.1	280.7	137.1	131.3	12.2	0.0	195.6	33.8	4.0
NDTX102643CAB-1W	TXCH	507.0	336.0	152.7	112.0	71.4	0.0	170.9	0.0	4.0
COTX10079-11W	TXCH	480.4	370.1	73.0	198.3	98.7	56.4	27.4	26.6	3.8
WTX10646-7W	TXCH	473.4	285.0	73.2	146.0	65.8	0.0	77.4	111.0	2.5
COTX09022-5Re/Y	NATCH	463.0	342.3	110.4	155.4	76.5	0.0	110.1	10.6	3.4
NDTX102640Cb-1W	TXCH	458.4	209.5	108.5	85.3	15.8	0.0	234.6	14.3	3.8
NDTX113266C-1W	TXCH	458.0	316.3	94.4	157.0	64.9	0.0	136.1	5.6	3.5
NDTX102702C-1W	TXCH	453.9	407.4	52.7	146.9	207.8	12.4	34.0	0.0	3.6
NDTX091908AB-2W	NATCH	451.6	288.3	93.6	147.5	47.3	0.0	134.0	29.2	4.2
NDTX113277-1W	TXCH	443.9	331.7	73.0	164.9	93.8	12.9	99.4	0.0	2.6
NDTX102852CB-4Ru	TXCH	438.1	334.0	67.6	100.0	166.4	49.0	51.4	3.7	3.7
COTX10076-8W	TXCH	429.4	264.5	87.1	112.0	65.3	0.0	164.9	0.0	3.8
COTX09089-1Ru	TXCH	428.3	333.3	94.8	152.5	86.1	0.0	89.4	5.6	3.8
NDTX102462C-6W	NATCH	406.4	321.3	70.1	168.8	82.3	0.0	80.9	4.1	4.0
Atlantic	WR	397.8	318.8	63.7	127.2	128.0	0.0	48.1	30.9	3.6
TX09396-1W	NATCH	397.2	343.3	52.9	135.9	154.5	5.2	48.7	0.0	3.4
NDTX113281B-1W	TXCH	378.3	224.0	109.5	89.6	24.9	0.0	154.3	0.0	3.0
NDTX113218C-3W	TXCH	376.7	286.3	80.5	93.3	112.4	0.0	90.4	0.0	3.9
NDTX102462C-2W	TXCH	369.4	311.8	46.3	116.8	148.7	17.2	40.4	0.0	3.8
NDTX113059-1W	TXCH	366.5	249.7	69.9	119.9	59.9	0.0	113.9	2.9	3.7
NDTX113218C-2W	TXCH	362.8	286.0	59.7	127.8	98.5	12.7	64.1	0.0	3.5
NDTX071109C-1W	TXCH	362.4	312.6	51.6	119.9	141.1	2.9	46.9	0.0	3.7
COTX10076-7W	TXCH	355.1	141.1	90.9	24.9	25.3	0.0	210.3	3.7	3.8
TX09403-14W	NATCH	340.0	200.6	86.7	68.9	45.0	0.0	139.4	0.0	3.8
NDTX102461AB-4W	TXCH	338.7	235.2	80.9	103.9	50.4	0.0	101.4	2.1	3.8
NDTX102557-1W	NATCH	338.3	237.1	72.6	127.4	37.1	0.0	95.2	6.0	3.7
COTX10076-11W	TXCH	334.4	267.2	45.6	126.1	95.4	0.0	67.2	0.0	4.0
COTX10076-1W	TXCH	330.2	234.0	74.7	125.3	34.0	0.0	49.8	46.5	3.8
WTX10640-2W	TXCH	319.6	49.0	41.5	7.5	0.0	0.0	232.5	38.2	3.4
Waneta	TXCH	308.7	276.9	53.7	118.4	104.8	0.0	31.7	0.0	3.8
Average		365.0	250.5	69.7	103.4	77.5	6.5	97.5	10.5	3.6
L.S.D. (.05)		60.7	52.1	20.8	33.4	40.6	8.9	43.3	22.0	0.2

¹ 1=very poor to 5= excellent

Dalhart
Table 8a. cont.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
COTX10031-1W	TXCH	295.4	251.4	68.9	87.1	95.4	0.0	44.0	0.0	4.0
NDTX081648CB-13W	NATCH	288.9	230.9	54.1	107.9	68.9	0.0	53.1	5.0	3.8
WTX10640-3W	TXCH	266.3	41.5	31.9	9.5	0.0	0.0	202.0	22.8	3.0
WTX10646-2W	TXCH	243.9	201.6	39.8	62.2	99.6	0.0	42.3	0.0	3.5
NDTX081648CB-4W	TXCH (ZC)	239.8	156.8	41.5	65.5	49.8	0.0	81.3	1.7	3.9
NDTX081644CAB-2W	NATCH	221.9	53.1	39.2	13.9	0.0	0.0	168.8	0.0	3.4
WTX10666-8W	TXCH	213.2	162.6	26.6	61.4	74.7	0.0	25.7	24.9	3.0
NDTX081648CB-1W	TXCH (ZC)	196.6	168.4	49.0	60.6	58.9	0.0	28.2	0.0	3.8
NDTX060700C-1W	NATCH	166.8	36.9	29.9	7.1	0.0	0.0	128.8	1.0	3.0
WTX10666-5W	TXCH	47.7	46.7	4.1	8.3	34.2	0.0	1.0	0.0	2.0
Average		365.0	250.5	69.7	103.4	77.5	6.5	97.5	10.5	3.6
L.S.D. (.05)		60.7	52.1	20.8	33.4	40.6	8.9	43.3	22.0	0.2

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 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
NDTX102852CB-3Ru	TXCH	74.6	14.6	20.4	39.7	13.6	11.7	0.0	1.056	12.4	Oblong	White
NDTX102514ABC-5W	NATCH	55.2	27.2	25.7	2.2	0.0	38.2	6.6	1.066	14.3	Oblong	White
NDTX102643CAB-1W	TXCH	66.3	30.1	22.1	14.1	0.0	33.7	0.0	1.064	13.9	Round	White
COTX10079-11W	TXCH	77.0	15.2	41.3	20.6	11.7	5.7	5.5	1.066	14.3	Oblong	White
WTX10646-7W	TXCH	60.7	15.6	31.1	14.0	0.0	17.1	22.2	1.070	14.9	Oblong	White
COTX09022-5Re/Y	NATCH	74.1	24.0	33.6	16.5	0.0	23.4	2.4	1.068	14.7	Oblong	White
NDTX102640Cb-1W	TXCH	45.5	23.6	18.8	3.2	0.0	51.5	3.0	1.061	13.4	Round	White
NDTX113266C-1W	TXCH	69.2	20.8	33.7	14.7	0.0	29.5	1.3	1.072	15.3	Oblong	White
NDTX102702C-1W	TXCH	89.8	12.0	32.5	45.3	2.4	7.8	0.0	1.069	14.8	Oblong	White
NDTX091908AB-2W	NATCH	64.6	20.8	33.0	10.8	0.0	29.2	6.2	1.061	13.5	Round	White
NDTX113277-1W	TXCH	75.0	16.6	36.9	21.5	2.6	22.4	0.0	1.074	15.8	Oblong	White
NDTX102852CB-4Ru	TXCH	73.9	15.7	22.4	35.8	12.4	12.8	0.8	1.058	12.8	Oblong	White
COTX10076-8W	TXCH	61.6	20.3	26.1	15.2	0.0	38.4	0.0	1.071	15.2	Round	White
COTX09089-1Ru	TXCH	77.8	22.0	35.8	20.0	0.0	21.0	1.2	1.068	14.7	Oblong	Russet
NDTX102462C-6W	NATCH	78.9	17.5	41.7	19.7	0.0	20.2	0.9	1.069	14.8	Oblong	White
Atlantic	WR	80.0	16.0	31.8	32.3	0.0	11.9	8.1	1.075	16.0	Oblong	Buff
TX09396-1W	NATCH	86.3	13.2	33.8	39.3	1.5	12.2	0.0	1.065	14.0	Long	White
NDTX113281B-1W	TXCH	59.2	28.9	23.7	6.6	0.0	40.8	0.0	1.073	15.6	Oblong	White
NDTX113218C-3W	TXCH	76.2	21.2	24.5	30.5	0.0	23.8	0.0	1.054	12.2	Oblong	White
NDTX102462C-2W	TXCH	84.4	12.6	31.7	40.2	4.6	10.9	0.0	1.078	16.5	Oblong	White
NDTX113059-1W	TXCH	68.4	19.5	33.1	15.8	0.0	30.6	0.9	1.070	15.0	Oblong	White
NDTX113218C-2W	TXCH	79.0	16.2	35.4	27.5	3.3	17.6	0.0	1.061	13.4	Oblong	White
NDTX071109C-1W	TXCH	86.4	13.8	33.9	38.7	0.9	12.7	0.0	1.055	12.3	Oblong	White
COTX10076-7W	TXCH	39.6	25.5	7.0	7.1	0.0	59.3	1.1	1.062	13.5	Round	White
TX09403-14W	NATCH	59.6	25.5	20.5	13.6	0.0	40.4	0.0	1.072	15.4	Oblong	White
NDTX102461AB-4W	TXCH	70.4	23.8	31.1	15.5	0.0	28.9	0.7	1.075	15.8	Oblong	White
NDTX102557-1W	NATCH	70.8	21.2	38.6	11.0	0.0	27.7	1.4	1.073	15.6	Oblong	White
COTX10076-11W	TXCH	79.9	13.6	37.7	28.5	0.0	20.1	0.0	1.059	13.0	Oblong	White
COTX10076-1W	TXCH	70.9	22.6	37.9	10.3	0.0	15.1	14.1	1.071	15.1	Round	White
WTX10640-2W	TXCH	15.5	13.1	2.4	0.0	0.0	72.7	11.7	1.066	14.3	Round	White
Waneta	TXCH	90.1	18.3	39.4	32.4	0.0	9.9	0.0	1.066	14.2	Round	White
Average		68.2	18.8	27.5	21.9	1.3	27.8	2.7	1.067	14.4		
L.S.D. (.05)		9.1	5.5	7.3	9.0	2.5	8.6	4.4	0.005	0.9		

Dalhart
Table 8b. cont.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
COTX10031-1W	TXCH	85.1	23.3	29.5	32.3	0.0	14.9	0.0	1.071	15.1	Round	White
NDTX081648CB-13W	NATCH	80.0	18.4	36.2	25.4	0.0	18.7	1.3	1.071	15.2	Oblong	White
WTX10640-3W	TXCH	16.6	13.0	3.6	0.0	0.0	73.9	9.5	1.057	12.7	Round	White
WTX10646-2W	TXCH	82.7	16.3	25.5	40.8	0.0	17.3	0.0	1.062	13.5	Oblong	White
NDTX081648CB-4W	TXCH (ZC)	65.4	17.3	27.3	20.8	0.0	33.9	0.7	No Data	No Data	Round	White
NDTX081644CAB-2W	NATCH	25.5	18.2	7.3	0.0	0.0	74.5	0.0	1.068	14.7	Round	White
WTX10666-8W	TXCH	76.3	12.5	28.8	35.0	0.0	12.1	11.7	1.075	15.9	Oblong	White
NDTX081648CB-1W	TXCH (ZC)	85.7	24.9	30.8	30.0	0.0	14.3	0.0	1.053	12.0	Round	White
NDTX060700C-1W	NATCH	20.7	17.4	3.3	0.0	0.0	78.8	0.5	1.079	16.6	Round	White
WTX10666-5W	TXCH	97.8	8.7	17.4	71.7	0.0	2.2	0.0	1.061	13.4	Round	White
Average		68.2	18.8	27.5	21.9	1.3	27.8	2.7	1.067	14.4		
L.S.D. (.05)		9.1	5.5	7.3	9.0	2.5	8.6	4.4	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 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ⁵	Vine Size ⁴	
NDTX102852CB-3Ru	TXCH	6.0	7.6	100	2.0	3.6	3.9	3.5	20
NDTX102514ABC-5W	NATCH	9.6	3.5	100	1.8	3.9	3.0	4.0	54
NDTX102643CAB-1W	TXCH	9.3	3.5	100	2.0	3.9	3.8	4.0	20
COTX10079-11W	TXCH	4.1	7.6	100	2.0	4.0	3.3	4.2	50
WTX10646-7W	TXCH	5.5	5.5	100	2.0	4.5	4.2	4.4	13
COTX09022-5Re/Y	NATCH	6.7	4.5	100	1.5	4.5	3.8	4.7	26
NDTX102640Cb-1W	TXCH	9.0	3.3	100	1.8	4.2	4.0	4.4	10
NDTX113266C-1W	TXCH	6.9	4.3	100	2.3	3.6	2.4	3.7	75
NDTX102702C-1W	TXCH	4.3	6.8	100	2.0	3.5	2.7	3.8	58
NDTX091908AB-2W	NATCH	7.1	4.2	100	2.3	3.4	3.3	3.8	48
NDTX113277-1W	TXCH	6.1	4.7	100	2.0	3.9	3.4	4.0	49
NDTX102852CB-4Ru	TXCH	4.3	6.4	100	2.0	3.8	3.5	3.9	28
COTX10076-8W	TXCH	7.6	3.6	100	1.5	4.0	5.0	3.8	0
COTX09089-1Ru	TXCH	5.8	4.7	100	1.8	4.0	3.9	4.1	18
NDTX102462C-6W	NATCH	5.1	5.2	100	1.8	4.0	3.7	4.2	35
Atlantic	WR	4.1	6.3	100	1.5	4.3	4.0	4.5	14
TX09396-1W	NATCH	4.5	5.8	100	1.5	4.3	4.6	4.3	0
NDTX113281B-1W	TXCH	6.3	3.8	100	2.0	4.0	3.7	4.0	30
NDTX113218C-3W	TXCH	5.3	4.6	100	2.5	3.0	1.0	3.2	100
NDTX102462C-2W	TXCH	3.1	7.8	100	1.8	4.0	3.5	4.1	39
NDTX113059-1W	TXCH	6.1	4.0	100	1.8	4.3	3.9	4.4	20
NDTX113218C-2W	TXCH	4.4	5.4	100	2.3	3.4	1.2	3.6	95
NDTX071109C-1W	TXCH	3.8	6.2	100	1.5	3.6	2.3	3.7	71
COTX10076-7W	TXCH	7.3	3.8	100	2.0	3.8	5.0	3.7	0
TX09403-14W	NATCH	6.0	3.9	100	2.0	4.0	3.8	4.0	18
NDTX102461AB-4W	TXCH	5.5	4.2	100	2.3	3.7	3.5	3.7	46
NDTX102557-1W	NATCH	5.1	4.3	100	2.0	3.8	2.1	3.8	81
COTX10076-11W	TXCH	4.1	5.2	100	1.5	4.0	4.3	4.2	25
COTX10076-1W	TXCH	4.5	4.7	100	1.5	4.0	5.0	4.2	0
WTX10640-2W	TXCH	10.5	2.0	100	1.5	4.5	4.8	4.6	5
Waneta	TXCH	3.4	5.9	100	1.5	4.0	3.9	4.0	14
Average		5.6	4.8	97	1.8	3.8	3.6	3.9	34
L.S.D. (.05)		1.6	0.7	0.1	0.2	0.2	0.5	0.2	17

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 8c. cont.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
COTX10031-1W	TXCH	3.4	5.6	100	2.5	3.3	3.3	3.4	50
NDTX081648CB-13W	NATCH	3.4	5.5	100	1.5	3.6	3.7	3.9	28
WTX10640-3W	TXCH	8.1	2.1	100	2.0	4.0	5.0	4.2	0
WTX10646-2W	TXCH	3.1	5.1	100	1.5	4.5	4.0	4.4	5
NDTX081648CB-4W	TXCH (ZC)	3.9	4.0	100	1.5	3.7	2.0	3.8	75
NDTX081644CAB-2W	NATCH	6.6	2.2	100	2.0	2.8	3.8	3.3	23
WTX10666-8W	TXCH	2.3	6.0	100	1.5	4.5	5.0	4.6	0
NDTX081648CB-1W	TXCH (ZC)	3.0	5.1	83	1.5	3.5	1.0	3.8	100
NDTX060700C-1W	NATCH	4.4	2.5	100	2.0	2.3	3.3	3.5	43
WTX10666-5W	TXCH	10.0	7.4	4	2.0	1.0	5.0	1.0	0
Average		5.6	4.8	97	1.8	3.8	3.6	3.9	34
L.S.D. (.05)		1.6	0.7	0	0.2	0.2	0.5	0.2	17

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 russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2014.

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 ¹¹	Percent Internal Brownspot
NDTX102852CB-3Ru	TXCH	1.0	3.0	1.0	3.5	1.0	5.0	5.0	5.0	5.0	5.0	20	0	0	0
NDTX102514ABC-5W	NATCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102643CAB-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	30
COTX10079-11W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	50	0	0	0
WTX10646-7W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	33	0	0	0
COTX09022-5Re/Y	NATCH	3.0	3.0	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102640Cb-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113266C-1W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
NDTX102702C-1W	TXCH	1.0	3.0	1.0	3.8	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX091908AB-2W	NATCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	3
NDTX113277-1W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	18	0	0	0
NDTX102852CB-4Ru	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	25	0	0	0
COTX10076-8W	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
COTX09089-1Ru	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	55	0	0	0
NDTX102462C-6W	NATCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
Atlantic	WR	1.0	3.0	2.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	20	0	0	33
TX09396-1W	NATCH	1.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	13	0	0	5
NDTX113281B-1W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113218C-3W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102462C-2W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
NDTX113059-1W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113218C-2W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
NDTX071109C-1W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
COTX10076-7W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09403-14W	NATCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	3
NDTX102461AB-4W	TXCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	13	0	0	0
NDTX102557-1W	NATCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	3
COTX10076-11W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
COTX10076-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
WTX10640-2W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	14
Waneta	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	7	0	0	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

Dalhart
Table 8d. cont. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2014.

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 ¹¹	Percent Internal Brownspot
COTX10031-1W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	10
NDTX081648CB-13W	NATCH	1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
WTX10640-3W	TXCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	15
WTX10646-2W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081648CB-4W	TXCH (ZC)	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	20	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
WTX10666-8W	TXCH	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081648CB-1W	TXCH (ZC)	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX060700C-1W	NATCH	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	5
WTX10666-5W	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
Average		1.0	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	7	0	0	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

Dalhart
Table 8e.

Notes and general rating for all reps of 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
NDTX102852CB-3Ru	TXCH	nice shape, large tubers, , ,	3.8, 3.8, 3.8, 3.8
NDTX102514ABC-5W	NATCH	, uniform, , heavy set, BOT	4, 4, 4, 4
NDTX102643CAB-1W	TXCH	smooth, poor internals, , ,	4, 4, 4, 4
COTX10079-11W	TXCH	smooth, hollow heart, , ,	3.8, 3.8, 3.8, 3.8
WTX10646-7W	TXCH	poor internals, ugly+, , poor shape, rough, hollow heart	2, 2.5, 2.5, 3
COTX09022-5Re/Y	NATCH	red eyes, deep eyes, , nice yellow flesh+,	3.4, 3.4, 3.4, 3.4
NDTX102640Cb-1W	TXCH	heavy set, , uniform,	3.8, 3.8, 3.8, 3.8
NDTX113266C-1W	TXCH	heavy set, too oblong, , shape??	3.5, 3.5, 3.5, 3.5
NDTX102702C-1W	TXCH	large tubers, , ,	3.5, 3.5, 3.6, 3.6
NDTX091908AB-2W	NATCH	, BOT++, very nice, ,	4.2, 4.2, 4.2, 4.2
NDTX113277-1W	TXCH	, some rough, hollow heart, poor shape	2.5, 3, 2.5, 2.5
NDTX102852CB-4Ru	TXCH	nice shape, , hollow heart, large tubers,	3.8, 3.8, 3.6, 3.6
COTX10076-8W	TXCH	smooth, , , severe hollow heart, , nice shape, poor internals, drop for	3.8, 3.8, 3.8, 3.8
COTX09089-1Ru	TXCH	hollow heart	3.8, 3.8, 3.8, 3.8
NDTX102462C-6W	NATCH	, nice smooth, , BOT	4, 4, 4, 4
Atlantic	WR	nice shape, buff skin, poor internals,	3.8, 3.4, 3.7, 3.6
TX09396-1W	NATCH	rough, , , large tubers	3.5, 3.8, 3.4, 3
NDTX113281B-1W	TXCH	small, poor shape, , ,	3, 3, 3, 3
NDTX113218C-3W	TXCH	nice shape, BOT-, , smooth,	4, 4, 3.8, 3.8
NDTX102462C-2W	TXCH	large tubers, nice shape, , nice size	3.8, 3.8, 3.8, 3.8
NDTX113059-1W	TXCH	, smooth, ,	3.6, 3.6, 3.8, 3.8
NDTX113218C-2W	TXCH	poor shape, better shape, ,	3.3, 3.7, 3.5, 3.5
NDTX071109C-1W	TXCH	large tubers, , , light set, nice shape	3.8, 3.8, 3.6, 3.6
COTX10076-7W	TXCH	small, nice shape, , ,	3.8, 3.8, 3.8, 3.8
TX09403-14W	NATCH	, , nice shape and size,	3.8, 3.8, 3.8, 3.8
NDTX102461AB-4W	TXCH	, , smooth skin, nice shape	4, 3.8, 3.7, 3.8
NDTX102557-1W	NATCH	smooth, , shape??, better shape	3.7, 3.7, 3.6, 3.8
COTX10076-11W	TXCH	very nice shape, BOT-, , ,	4, 4, 4, 4
COTX10076-1W	TXCH	smooth, , ,	3.8, 3.8, 3.8, 3.8
WTX10640-2W	TXCH	poor shape++, , , very small	3.5, 3.4, 3, 3.6
Waneta	TXCH	, , , nice shape	3.8, 3.8, 3.8, 3.8

Dalhart
Table 8e. cont.

Notes and general rating for all reps of 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
COTX10031-1W	TXCH	nice shape, BOT-, , ,	4, 4, 4, 4
NDTX081648CB-13W	NATCH	, , light set, nice shape,	3.9, 3.7, 3.7, 3.7
WTX10640-3W	TXCH	poor internals, , small, poor shape,	3, 3, 3, 3
WTX10646-2W	TXCH	, , ,	3.5, 3.5, 3.5, 3.5
NDTX081648CB-4W	TXCH (ZC)	hollow heart, , ,	3.9, 3.9, 3.9, 3.9
NDTX081644CAB-2W	NATCH	, , small tubers, bad rep	3.5, 3.5, 3.5, 3
WTX10666-8W	TXCH	poor shape, , ,	3, 3, 3, 3
NDTX081648CB-1W	TXCH (ZC)	smooth, , ,	3.8, 3.8, 3.8, 3.8
NDTX060700C-1W	NATCH	, , , too small, small potato candidate	3, 3, 3, 3
WTX10666-5W	TXCH	poor yield, , ,	2, 2, 2, 2

Dalhart
Table 8f.

Specific gravity, percent solids, tuber general rating, chip color rating, good chip bad chip ratio, notes, and, percentage of Zebra Defect at chipping of 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Gravity	% Solids	Chip General Rating ¹	Chip Color ²	Good/Bad Chip Ratio	Notes ³	Percent Zebra Defect
NDTX102852CB-3Ru	TXCH	1.056	12.4	BOT+	1	11/0		0%
NDTX102514ABC-5W	NATCH	1.066	14.3	Nice	1	26/14	1GH	0%
NDTX102643CAB-1W	TXCH	1.064	13.9	No Data	No Data	No Data	No Data	No Data
COTX10079-11W	TXCH	1.066	14.3	Keep	1	9/1	1GH	0%
WTX10646-7W	TXCH	1.070	14.9	drop	1	1/10		0%
COTX09022-5Re/Y	NATCH	1.068	14.7	Drop	3	16/24	1 GH/Mech, Yellow	13%
NDTX102640Cb-1W	TXCH	1.061	13.4	Keep	1	25/4	1GH	0%
NDTX113266C-1W	TXCH	1.072	15.3	Keep	1	20/10		0%
NDTX102702C-1W	TXCH	1.069	14.8	Keep-	1	9/12		0%
NDTX091908AB-2W	NATCH	1.061	13.5	BOT-, Nice	1	29/12	1GH, Nice	2%
NDTX113277-1W	TXCH	1.074	15.8	Keep	1	26/12		0%
NDTX102852CB-4Ru	TXCH	1.058	12.8	0.0	1	14/6		0%
COTX10076-8W	TXCH	1.071	15.2	Keep	1	3/6		0%
COTX09089-1Ru	TXCH	1.068	14.7	Drop	1	17/21		0%
NDTX102462C-6W	NATCH	1.069	14.8	Keep	2	27/14	1GH	0%
Atlantic	WR	1.075	16.0	D/K	1	14/16	1GH	0%
TX09396-1W	NATCH	1.065	14.0	BOT-, Keep	1	21/9	1GH, Nice, BOT-	0%
NDTX113281B-1W	TXCH	1.073	15.6	Drop?	1	4/6		0%
NDTX113218C-3W	TXCH	1.054	12.2	BOT+	1	17/1		0%
NDTX102462C-2W	TXCH	1.078	16.5	Drop	3	15/11		0%
NDTX113059-1W	TXCH	1.070	15.0	BOT Keep	1	33/5	1GH	0%
NDTX113218C-2W	TXCH	1.061	13.4	Keep	1	29/1		0%
NDTX071109C-1W	TXCH	1.055	12.3	Keep-	1	16/9		0%
COTX10076-7W	TXCH	1.062	13.5	Keep-	1	13/6	2GH	0%
TX09403-14W	NATCH	1.072	15.4	Keep-	2	36/4		0%
NDTX102461AB-4W	TXCH	1.075	15.8	BOT-	1	31/7	1GH, IBC	0%
NDTX102557-1W	NATCH	1.073	15.6	Drop	1	24/16	1BC	0%
COTX10076-11W	TXCH	1.059	13.0	Keep-	1	6/10	Oil center	0%
COTX10076-1W	TXCH	1.071	15.1	Keep-	2	19/8	1HH, IBC	0%
WTX10640-2W	TXCH	1.066	14.3	Keep	1	21/6		0%
Waneta	TXCH	1.066	14.2	BOT++	1	36/4		0%

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

¹Keep or drop

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

Dalhart
Table 8f. cont.

Specific gravity, percent solids, tuber general rating, chip color rating, good chip bad chip ratio, notes, and, percentage of Zebra Defect at chipping of 40 entries in the Texas Chip Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Gravity	% Solids	Chip General Rating ¹	Chip Color ²	Good/Bad Chip Ratio	Notes ³	Percent Zebra Defect
COTX10031-1W	TXCH	1.071	15.1	Keep-	1	7/6		0%
NDTX081648CB-13W	NATCH	1.071	15.2	Keep-	1	29/19	2Brown	0%
WTX10640-3W	TXCH	1.057	12.7	Keep-	1	9/12		0%
WTX10646-2W	TXCH	1.062	13.5	Keep	1	9/0		0%
NDTX081648CB-4W	TXCH (ZC)	No Data	No Data	Keep-	1	5/4	1HH	0%
NDTX081644CAB-2W	NATCH	1.068	14.7	BOT	1	45/2		0%
WTX10666-8W	TXCH	1.075	15.9	Keep	1	6/6		17%
NDTX081648CB-1W	TXCH (ZC)	1.053	12.0	Keep	1	7/1		0%
NDTX060700C-1W	NATCH	1.079	16.6	BOT+	1	15/0		0%
WTX10666-5W	TXCH	1.061	13.4	Drop	3	1/2	1HH	0%

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

¹Keep or drop

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

2013 Chip Selections Trial, Dalhart

The trial consisted of 148 entries. The following 16 clones (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, NDTX113281B-1W) will be advanced in 2015 (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 fifty-two entries, including the check variety Russet Norkotah.

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

- COTX08258-6Ru, COTX09022-3RuRE/Y, Stampede Russet, COTX10141-12Ru, TXA549-1Ru, and TX08352-5Ru were the outstanding entries for this trial based on general ratings and best of trial designations. COTX10080-2Ru, COTX10115-1Ru, COTX10141-11Ru, also had high general ratings (Tables 10a and 10e).
- AORTX06670-5Ru had the highest total yield, while COTX10114-1Ru had the highest marketable and yield of over 10 oz. tubers (Table 10a).
- COTX10007-1Ru had the highest yield of <4 oz. tubers, while AORTX06670-5Ru had the highest yield of culls/No.2 tubers (Table 10a).
- COTX10179-2Ru had the highest percentage of marketable yield, while COTX10080-8Ru had the highest percentage of over 18 oz. tubers (Table 10b).
- COTX10171-2Ru had the highest percentage of <4 oz. tubers, while AORTX06670-5Ru had the highest percentage of culls/No. 2 tubers (Table 10b).
- AORTX06670-1Ru had the highest specific gravity (Table 10b).
- COTX10080-2Ru, COTX10007-1Ru, TX08351-5Ru, COTX09042-2Ru, COTX10080-8Ru, AORTX06670-1Ru, COTX08214-2Ru, and COTX10171-2Ru were the latest maturing entries, while COTX10080-3Ru, COTX09052-2Ru, COTX10231-1Ru, ATTX07039-2Ru, COTX10111-8Ru, COTX09052-1Ru, and TX08352-5Ru were the earliest maturing entries (Table 10c).
- COTX10080-8Ru, TX08350-12Ru, COTX08214-2Ru, AOTX95265-3Ru, TXA549-1Ru, TX08352-5Ru, and AOTX95265-1Ru had the highest percentage of hollow heart, while COTX10092-1Ru, COTX10010-1Ru, COTX10111-1Ru, and COTX10115-1Ru had the highest percentage of vascular discoloration. COTX10007-2Ru had the highest percentage of internal brownspot (Table 10d).

Comments on entries:

- AORTX06670-5Ru Oblong Russet small, lenticels
- COTX10114-1Ru Long Russet too long, pointed, skinny, curved, drop++
- COTX10013-3RuRe Long Russet blocky, red splash, white flesh
- COTX10080-5Ru Oblong Russet light skin, blocky

- COTX08258-6Ru Long Russet nice shape, 1 ZC, BOT-
- COTX10007-2Ru Long Russet small, nice shape, poor internals
- COTX10080-2Ru Long Russet oversized, nice shape
- COTX10092-1Ru Oblong Russet small, too round, blocky, nice shape, lots of B's
- COTX10007-1Ru Oblong Russet too small and round
- TX08351-5Ru Long Russet yield+, hollow heart on large tubers, feathering++, nice skin and shape
- AORTX09245-1Ru Long Russet pointed, some pear shaped
- COTX10010-1Ru Long Russet some pointed, large tubers, nice flesh
- COTX10111-1Ru Long Russet small, blocky
- COTX09042-2Ru Long Russet small, blocky, nice skin
- COTX10115-1Ru Long Russet small, nice shape
- COTX09022-3RuRE/Y Long Russet red eyes, yellow flesh, BOT, nice shape and flesh
- COTX10080-3Ru Long Russet deep eyes, nice shape
- COTX09052-2Ru Long Russet light net, small, skinny, pointed
- Stampede Russet Long Russet large blocky tubers, BOT-
- COTX10111-10Ru Long Russet small
- COTX10141-13Ru Long Russet blocky, fat tubers, oversized, pear shaped
- COTX10080-8Ru Long Russet oversized, growth cracks, drop
- COTX10141-12Ru Long Russet nice shape, flat, no hollow heart on large tubers, BOT-
- COTX10156-5Ru Oblong Russet too small, smooth
- COTX10231-1Ru Oblong Russet poor shape, small
- AORTX06670-1Ru Long Russet small
- COTX10110-1Ru Oblong Russet blocky
- COTX10084-7Ru Long Russet light net, too round, blocky
- ATTX07039-2Ru Oblong Russet blocky, deep eyes
- COTX10092-5Ru Long Russet too round, blocky, nice shape
- ATX00289-2Ru Oblong Russet small, skinny
- COTX10111-2Ru Long Russet drop, too small, light set
- COTX10111-8Ru Oblong Russet nice shape, blocky
- TX08350-12Ru Oblong Russet some pointed, hollow heart on large tubers, fat tubers
- Russet Norkotah Long Russet rough, pointed, small
- COTX10141-11Ru Long Russet blocky, smooth
- COTX10117-1Ru Long Russet small

- COTX10111-4Ru Long Russet flat, pointed, small+, too small
- COTX08322-10Ru Long Russet nice shape
- COTX09052-1Ru Long Russet light net, skinny, too small
- COTX10179-2Ru Long Russet pointed
- COTX10141-15Ru Oblong Russet small, nice skin finish, blocky
- COTX08214-2Ru Long White feathering, light net
- ATX84378-6Ru Oblong Russet light set, blocky, nice flesh
- TXNS410 Long Russet nice shape, small, very nice
- COTX05095-2Ru/Y Long Russet pointed, small, nice flesh, light net
- AOTX95265-3Ru Long Russet some rough, some pointed
- TXA549-1Ru Long Russet hollow heart on very large tubers, blocky, BOT
- COTX10171-2Ru Oblong Russet too round, blocky, oblong to round, light set
- TX08352-5Ru Oblong Russet hollow heart, oversized, fat, nice flesh, eyes a little deep, some rough
- AOTX95265-1Ru Long Russet light set, skinny, rough, pointed
- AOTX05043-1Ru Oblong Russet small, light set

Summary:

COTX08258-6Ru, COTX09022-3RuRE/Y, and Stampede Russet were the outstanding entries in this trial 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 52 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2014.
Table 10a.

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				
AORTX06670-5Ru	TXRU	1133.0	304.5	134.0	114.9	55.6	0.0	144.0	684.5	3.3
COTX10114-1Ru	TXRU	919.1	626.8	45.0	122.0	459.9	226.9	46.7	18.7	2.6
COTX10013-3Rure	TXRU	806.1	671.7	114.3	344.3	213.0	8.5	125.9	0.0	3.3
COTX10080-5Ru	TXRU	737.8	612.1	97.7	305.1	209.3	6.8	118.9	0.0	3.6
COTX08258-6Ru	TXRU	711.5	586.8	56.6	222.4	307.8	14.3	63.9	46.5	3.8
COTX10007-2Ru	TXRU	693.4	386.0	161.0	116.4	108.6	33.4	274.0	0.0	3.6
COTX10080-2Ru	TXRU	688.2	572.3	63.3	264.1	245.0	57.3	58.7	0.0	3.7
COTX10092-1Ru	TXRU	687.6	521.1	127.8	247.0	146.2	0.0	129.2	37.3	3.5
COTX10007-1Ru	TXRU	686.6	359.7	146.0	124.0	89.6	0.0	326.9	0.0	3.0
TX08351-5Ru	TXRU	667.9	537.2	56.0	250.4	230.9	42.7	87.9	0.0	3.6
AORTX09245-1Ru	TXRU	654.2	504.7	68.9	248.3	187.5	42.3	79.2	28.0	2.9
COTX10010-1Ru	TXRU	638.9	516.9	59.3	207.0	250.6	60.2	61.8	0.0	3.6
COTX10111-1Ru	TXRU	634.9	490.6	112.4	223.0	155.2	18.5	121.3	4.6	3.6
COTX09042-2Ru	TXRU	617.1	528.9	71.4	269.2	188.3	14.3	70.5	3.3	3.6
COTX10115-1Ru	TXRU	609.4	426.9	106.2	229.4	91.3	0.0	175.9	6.6	3.7
COTX09022-3RuRE/Y	TXRU	595.5	485.4	82.8	193.7	208.9	34.0	66.8	9.3	4.5
COTX10080-3Ru	TXRU	589.1	443.3	78.8	168.6	195.8	36.7	75.7	33.4	3.6
COTX09052-2Ru	TXRU	586.2	492.4	85.5	228.2	178.8	0.0	87.9	5.8	3.3
Stampede Russet	TXRU	583.5	443.3	62.4	222.2	158.7	33.8	106.4	0.0	3.7
COTX10111-10Ru	TXRU	583.3	404.9	100.4	198.3	106.2	0.0	178.4	0.0	3.6
COTX10141-13Ru	TXRU	580.8	443.7	40.9	212.0	190.8	61.2	66.8	9.1	3.6
COTX10080-8Ru	TXRU	566.1	311.4	16.8	90.4	204.1	205.4	28.6	20.7	3.3
COTX10141-12Ru	TXRU	563.6	443.3	10.2	182.3	250.8	80.9	33.0	6.4	3.8
COTX10156-5Ru	TXRU	561.9	315.9	87.3	134.0	94.6	5.0	241.0	0.0	3.5
COTX10231-1Ru	TXRU	547.8	373.0	81.5	182.5	108.9	4.8	170.1	0.0	1.9
AORTX06670-1Ru	TXRU	539.3	426.5	107.0	190.0	129.4	0.0	112.8	0.0	3.3
COTX10110-1Ru	TXRU	534.3	386.2	111.6	152.3	122.4	19.5	128.6	0.0	3.0
COTX10084-7Ru	TXRU	528.9	375.4	94.2	179.2	102.1	20.3	123.4	9.7	3.5
ATTX07039-2Ru	TXRU	528.1	373.4	35.3	116.0	222.2	107.4	38.4	8.9	3.6
COTX10092-5Ru	TXRU	525.8	357.0	101.4	140.0	115.5	21.0	132.1	15.8	3.6
ATX00289-2Ru	TXRU	520.0	384.4	35.7	147.5	201.2	71.8	55.0	8.9	3.4
COTX10111-2Ru	TXRU	519.6	324.6	100.6	166.8	57.3	0.0	185.2	9.7	2.6
COTX10111-8Ru	TXRU	515.3	408.8	54.1	189.2	165.5	29.2	70.5	6.6	3.6
TX08350-12Ru	TXRU	514.0	386.4	40.0	115.3	231.1	77.8	49.8	0.0	3.5
Russet Norkotah	WR	514.0	372.3	67.4	208.9	96.0	2.9	107.2	31.5	3.1
COTX10141-11Ru	TXRU	511.9	411.1	28.2	131.9	251.0	60.6	40.2	0.0	3.7
COTX10117-1Ru	TXRU	508.2	425.6	33.6	137.7	254.3	0.0	58.1	24.5	3.0
Average		569.6	412.2	73.3	179.9	159.0	32.4	103.5	21.5	3.4
L.S.D. (.05)		71.3	78.1	34.6	60.0	60.3	43.2	32.7	23.2	0.3

¹ 1=very poor to 5= excellent

Dalhart Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 52 entries in the Texas Advanced Russet
 Table 10a. cont. Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
COTX10111-4Ru	TXRU	503.8	318.0	89.0	129.0	100.0	0.0	185.9	0.0	3.3
COTX08322-10Ru	TXRU	495.5	417.8	35.9	220.7	161.2	10.2	57.5	10.2	3.6
COTX09052-1Ru	TXRU	479.6	352.6	86.1	185.9	80.7	0.0	123.8	3.1	3.4
COTX10179-2Ru	TXRU	472.9	402.2	78.2	159.9	164.1	14.3	45.0	11.4	2.8
COTX10141-15Ru	TXRU	460.7	359.1	98.9	173.0	87.1	0.0	101.6	0.0	3.5
COTX08214-2Ru	TXRU	459.5	335.8	27.2	145.4	163.2	78.2	40.0	5.4	3.3
ATX84378-6Ru	TXRU	458.6	362.0	53.5	197.7	110.8	26.6	65.1	5.0	3.6
TXNS410	TXRU	451.6	353.9	58.3	184.2	111.4	10.8	86.9	0.0	3.5
COTX05095-2Ru/Y	TXRU	445.8	321.9	83.0	150.2	88.8	0.0	107.9	16.0	3.0
AOTX95265-3Ru	TXRU	444.9	343.9	79.7	119.9	144.4	25.7	75.3	0.0	3.5
TXA549-1Ru	TXRU	439.7	372.7	32.8	177.6	162.4	21.8	38.6	6.6	4.0
COTX10171-2Ru	TXRU	438.9	226.7	79.7	111.2	35.9	0.0	212.2	0.0	3.2
TX08352-5Ru	TXRU	433.3	289.4	22.4	116.8	150.2	80.1	35.7	28.2	4.0
AOTX95265-1Ru	TXRU	399.1	325.5	40.9	194.8	89.8	20.7	52.9	0.0	2.7
AOTX05043-1Ru	TXRU	334.0	219.7	72.4	116.0	31.3	0.0	114.3	0.0	3.0
Average		569.6	412.2	73.3	179.9	159.0	32.4	103.5	21.5	3.4
L.S.D. (.05)		71.3	78.1	34.6	60.0	60.3	43.2	32.7	23.2	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 52 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
AORTX06670-5Ru	TXRU	26.9	11.9	10.1	4.9	0.0	12.7	60.4	1.077	16.2	Oblong	Russet
COTX10114-1Ru	TXRU	69.7	4.7	13.4	51.6	23.6	4.9	1.8	1.062	13.6	Long	Russet
COTX10013-3Rure	TXRU	83.3	14.1	43.1	26.2	1.1	15.6	0.0	1.059	13.1	Long	Russet
COTX10080-5Ru	TXRU	82.9	13.4	41.1	28.4	1.0	16.1	0.0	1.073	15.6	Oblong	Russet
COTX08258-6Ru	TXRU	81.9	7.8	31.0	43.1	2.2	9.1	6.7	1.077	16.2	Long	Russet
COTX10007-2Ru	TXRU	55.6	23.1	16.9	15.6	5.0	39.5	0.0	1.079	16.7	Long	Russet
COTX10080-2Ru	TXRU	83.2	9.2	38.4	35.6	8.2	8.6	0.0	1.062	13.5	Long	Russet
COTX10092-1Ru	TXRU	75.6	18.5	35.5	21.5	0.0	18.8	5.6	1.066	14.3	Oblong	Russet
COTX10007-1Ru	TXRU	52.4	21.3	18.1	13.0	0.0	47.6	0.0	1.070	14.9	Oblong	Russet
TX08351-5Ru	TXRU	80.4	8.7	37.8	33.9	6.1	13.6	0.0	1.062	13.6	Long	Russet
AORTX09245-1Ru	TXRU	77.0	10.6	37.8	28.6	6.5	12.3	4.3	1.067	14.5	Long	Russet
COTX10010-1Ru	TXRU	81.0	9.8	31.9	39.2	9.3	9.7	0.0	1.065	14.1	Long	Russet
COTX10111-1Ru	TXRU	77.5	17.6	35.5	24.4	2.8	19.1	0.7	1.069	14.9	Long	Russet
COTX09042-2Ru	TXRU	85.6	11.6	43.6	30.4	2.4	11.5	0.6	1.069	14.8	Long	Russet
COTX10115-1Ru	TXRU	69.8	17.3	37.5	14.9	0.0	29.1	1.1	1.070	15.0	Long	Russet
COTX09022-3RuRE/Y	TXRU	81.6	13.8	32.2	35.5	5.6	11.3	1.6	1.073	15.5	Long	Russet
COTX10080-3Ru	TXRU	75.2	13.8	28.2	33.2	5.9	13.0	5.8	1.067	14.5	Long	Russet
COTX09052-2Ru	TXRU	83.8	14.7	38.7	30.4	0.0	15.3	0.9	1.068	14.6	Long	Russet
Stampede Russet	TXRU	75.9	10.8	38.3	26.7	5.6	18.5	0.0	1.055	12.4	Long	Russet
COTX10111-10Ru	TXRU	69.4	17.2	34.0	18.2	0.0	30.6	0.0	1.071	15.1	Long	Russet
COTX10141-13Ru	TXRU	75.7	7.6	35.5	32.6	11.3	11.7	1.3	1.076	16.0	Long	Russet
COTX10080-8Ru	TXRU	55.2	3.0	16.1	36.2	36.0	5.1	3.7	1.058	12.8	Long	Russet
COTX10141-12Ru	TXRU	78.7	2.0	32.0	44.7	14.1	6.0	1.1	1.076	16.0	Long	Russet
COTX10156-5Ru	TXRU	56.1	15.5	23.7	17.0	0.9	43.0	0.0	1.067	14.5	Oblong	Russet
COTX10231-1Ru	TXRU	66.8	14.9	32.5	19.4	0.7	32.5	0.0	1.065	14.1	Long	Russet
AORTX06670-1Ru	TXRU	79.1	19.8	35.2	24.0	0.0	20.9	0.0	1.084	17.5	Oblong	Russet
COTX10110-1Ru	TXRU	71.5	22.0	27.1	22.4	3.5	25.0	0.0	1.069	14.8	Oblong	Russet
COTX10084-7Ru	TXRU	70.8	18.1	33.0	19.8	3.8	23.5	1.8	1.068	14.7	Long	Russet
ATTX07039-2Ru	TXRU	70.8	6.6	22.6	41.6	20.0	7.4	1.7	1.061	13.4	Oblong	Russet
COTX10092-5Ru	TXRU	68.0	19.5	26.6	21.9	3.8	25.1	3.1	1.067	14.4	Long	Russet
ATX00289-2Ru	TXRU	74.3	7.1	28.1	39.1	14.0	10.1	1.5	1.067	14.5	Oblong	Russet
COTX10111-2Ru	TXRU	61.4	19.4	31.7	10.3	0.0	37.0	1.6	1.068	14.6	Long	Russet
COTX10111-8Ru	TXRU	79.6	11.1	36.1	32.4	6.1	13.2	1.1	1.063	13.8	Oblong	Russet
TX08350-12Ru	TXRU	75.6	8.4	22.9	44.4	14.7	9.7	0.0	1.064	14.0	Oblong	Russet
Russet Norkotah	WR	72.7	13.1	40.9	18.8	0.5	20.7	6.0	1.065	14.2	Long	Russet
COTX10141-11Ru	TXRU	79.2	5.7	24.2	49.4	13.1	7.7	0.0	1.074	15.8	Long	Russet
COTX10117-1Ru	TXRU	79.7	7.7	27.0	45.1	0.0	13.1	7.2	1.062	13.6	Long	Russet
Average		73.0	13.2	32.1	27.8	5.6	18.7	2.7	1.068	14.7		
L.S.D. (.05)		9.1	6.6	9.8	9.0	6.8	7.0	3.9	0.003	0.6		

Dalhart
Table 10b. cont.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 52 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
COTX10111-4Ru	TXRU	61.4	17.1	24.9	19.4	0.0	38.6	0.0	1.069	14.9	Long	Russet
COTX08322-10Ru	TXRU	84.2	7.7	43.7	32.8	2.0	11.9	1.9	1.063	13.7	Long	Russet
COTX09052-1Ru	TXRU	73.8	17.5	39.5	16.8	0.0	25.6	0.6	1.066	14.3	Long	Russet
COTX10179-2Ru	TXRU	85.1	17.2	33.5	34.4	3.4	9.1	2.4	1.075	15.9	Long	Russet
COTX10141-15Ru	TXRU	77.8	22.4	36.5	19.0	0.0	22.2	0.0	1.076	16.0	Oblong	Russet
COTX08214-2Ru	TXRU	72.5	5.8	30.6	36.1	17.4	8.9	1.2	1.068	14.7	Long	White
ATX84378-6Ru	TXRU	78.8	11.8	43.1	23.9	5.8	14.1	1.2	1.070	15.0	Oblong	Russet
TXNS410	TXRU	78.6	13.0	40.4	25.2	2.2	19.2	0.0	1.067	14.5	Long	Russet
COTX05095-2Ru/Y	TXRU	71.8	18.9	33.9	19.1	0.0	24.3	3.9	1.068	14.6	Long	Russet
AOTX95265-3Ru	TXRU	77.1	17.6	27.3	32.1	5.6	17.3	0.0	1.064	13.9	Long	Russet
TXA549-1Ru	TXRU	84.9	7.8	40.7	36.5	4.3	9.0	1.8	1.069	14.9	Long	Russet
COTX10171-2Ru	TXRU	51.3	18.4	24.9	7.9	0.0	48.7	0.0	1.078	16.5	Oblong	Russet
TX08352-5Ru	TXRU	68.2	5.6	28.4	34.2	16.1	9.7	6.0	1.063	13.7	Oblong	Russet
AOTX95265-1Ru	TXRU	82.2	10.8	48.1	23.3	4.6	13.2	0.0	1.067	14.5	Long	Russet
AOTX05043-1Ru	TXRU	65.6	21.8	34.3	9.4	0.0	34.4	0.0	1.075	15.9	Oblong	Russet
Average		73.0	13.2	32.1	27.8	5.6	18.7	2.7	1.076	16.1		
L.S.D. (.05)		9.1	6.6	9.8	9.0	6.8	7.0	3.9	0.003	0.6		

Dalhart
Table 10c. Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 52 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
AORTX06670-5Ru	TXRU	7.6	9.7	100	1.5	3.7	3.8	4.1	30
COTX10114-1Ru	TXRU	5.4	10.8	100	2.0	3.8	2.9	3.8	64
COTX10013-3Rure	TXRU	9.0	5.8	100	1.5	4.6	3.7	4.7	39
COTX10080-5Ru	TXRU	8.4	5.6	100	1.8	4.2	3.5	4.3	39
COTX08258-6Ru	TXRU	5.7	8.0	100	1.8	4.3	2.7	4.3	76
COTX10007-2Ru	TXRU	10.3	4.3	100	2.5	3.6	2.7	3.7	74
COTX10080-2Ru	TXRU	5.8	7.7	100	2.0	4.0	4.3	4.1	10
COTX10092-1Ru	TXRU	9.1	4.9	100	2.0	3.8	3.7	3.8	29
COTX10007-1Ru	TXRU	10.9	4.1	100	2.0	3.5	4.5	3.8	10
TX08351-5Ru	TXRU	6.6	6.5	100	1.5	4.2	4.2	4.3	15
AORTX09245-1Ru	TXRU	6.4	6.6	100	2.0	3.9	3.9	4.1	23
COTX10010-1Ru	TXRU	5.4	7.6	100	1.5	4.4	3.8	4.2	35
COTX10111-1Ru	TXRU	8.0	5.1	100	1.5	4.1	3.9	4.1	25
COTX09042-2Ru	TXRU	6.6	6.0	100	1.5	4.0	4.0	4.1	25
COTX10115-1Ru	TXRU	8.3	4.7	100	2.0	3.5	3.8	3.8	28
COTX09022-3RuRE/Y	TXRU	5.6	6.8	100	1.5	4.3	3.3	4.3	55
COTX10080-3Ru	TXRU	5.8	6.6	100	2.3	3.6	2.0	3.8	88
COTX09052-2Ru	TXRU	6.8	5.6	100	1.5	4.1	2.0	4.2	85
Stampede Russet	TXRU	6.8	5.6	100	1.5	4.2	3.2	4.3	59
COTX10111-10Ru	TXRU	8.8	4.3	100	1.5	4.0	2.8	4.0	65
COTX10141-13Ru	TXRU	4.7	8.0	100	1.5	4.2	3.9	4.3	23
COTX10080-8Ru	TXRU	3.2	11.4	100	1.8	4.0	4.2	4.1	10
COTX10141-12Ru	TXRU	3.7	9.7	100	1.8	4.5	3.9	4.5	21
COTX10156-5Ru	TXRU	9.5	3.8	100	1.5	4.0	3.2	4.0	63
COTX10231-1Ru	TXRU	8.3	4.2	100	2.5	3.6	1.0	3.7	100
AORTX06670-1Ru	TXRU	7.0	5.0	100	2.0	3.7	5.0	3.7	0
COTX10110-1Ru	TXRU	6.5	5.4	100	1.5	3.9	2.8	3.8	50
COTX10084-7Ru	TXRU	6.6	5.2	100	2.5	3.5	2.9	3.7	60
ATTX07039-2Ru	TXRU	3.6	9.5	100	2.3	3.8	1.8	3.8	83
COTX10092-5Ru	TXRU	6.8	4.9	100	2.3	3.5	3.3	3.7	51
ATX00289-2Ru	TXRU	4.4	7.6	100	2.3	3.8	3.6	3.8	43
COTX10111-2Ru	TXRU	7.9	4.2	100	1.8	4.1	3.2	4.2	50
COTX10111-8Ru	TXRU	4.8	7.0	100	2.5	3.2	1.4	3.6	93
TX08350-12Ru	TXRU	4.0	8.3	100	2.0	3.9	3.8	4.1	28
Russet Norkotah	WR	5.9	5.6	100	1.8	3.5	2.8	3.5	65
COTX10141-11Ru	TXRU	3.9	8.5	100	1.5	4.8	3.8	4.9	20
COTX10117-1Ru	TXRU	4.2	7.6	100	1.5	4.0	3.7	4.2	33
Average		6.2	6.4	100	1.9	3.9	3.3	4.0	46
L.S.D. (.05)		1.0	1.3	4	0.3	0.2	0.7	0.3	22

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 10c. cont. Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 52 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
COTX10111-4Ru	TXRU	6.3	6.3	100	9.0	4.0	3.2	4.2	54
COTX08322-10Ru	TXRU	4.6	6.9	100	2.0	3.5	2.9	3.5	63
COTX09052-1Ru	TXRU	6.4	4.9	100	1.8	4.2	1.3	4.1	98
COTX10179-2Ru	TXRU	5.5	5.5	100	1.6	4.1	3.0	4.1	63
COTX10141-15Ru	TXRU	5.9	5.8	92	1.8	3.7	3.4	3.8	36
COTX08214-2Ru	TXRU	3.7	8.0	100	1.5	3.9	4.9	4.1	3
ATX84378-6Ru	TXRU	4.3	6.8	100	1.5	3.9	3.0	3.7	54
TXNS410	TXRU	6.6	5.6	83	1.5	2.9	3.7	3.3	34
COTX05095-2Ru/Y	TXRU	6.1	4.7	100	1.5	4.1	3.1	4.0	56
AOTX95265-3Ru	TXRU	4.8	6.0	100	2.0	3.8	3.9	3.8	30
TXA549-1Ru	TXRU	3.9	7.4	100	2.0	4.3	3.6	4.1	34
COTX10171-2Ru	TXRU	7.5	3.7	100	2.0	3.8	4.5	3.7	5
TX08352-5Ru	TXRU	3.2	9.0	100	1.8	4.0	1.7	4.0	80
AOTX95265-1Ru	TXRU	3.9	6.5	100	2.0	3.5	3.0	3.6	65
AOTX05043-1Ru	TXRU	5.1	4.2	100	1.5	3.7	2.3	3.8	76
Average		6.2	6.4	100	1.9	3.9	3.3	4.0	46
L.S.D. (.05)		1.0	1.3	4	0.3	0.2	0.7	0.3	22

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 10d. 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 52 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2014.

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
AORTX06670-5Ru	TXRU	1.0	3.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10114-1Ru	TXRU	1.0	4.5	3.0	3.8	3.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
COTX10013-3Rure	TXRU	1.0	3.5	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	8
COTX10080-5Ru	TXRU	1.0	3.0	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	3	0	0	0
COTX08258-6Ru	TXRU	1.0	4.0	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	10	0	0	0
COTX10007-2Ru	TXRU	1.0	3.5	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	20
COTX10080-2Ru	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
COTX10092-1Ru	TXRU	1.0	2.5	3.8	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	18	0
COTX10007-1Ru	TXRU	1.0	2.5	3.5	3.8	3.5	5.0	5.0	5.0	5.0	5.0	0	0	5	0
TX08351-5Ru	TXRU	1.0	4.0	3.5	3.5	3.5	5.0	5.0	5.0	5.0	2.3	0	0	0	0
AORTX09245-1Ru	TXRU	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
COTX10010-1Ru	TXRU	1.0	4.0	3.0	3.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	10	5
COTX10111-1Ru	TXRU	1.0	3.5	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	10	8
COTX09042-2Ru	TXRU	1.0	3.5	3.8	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	3	0
COTX10115-1Ru	TXRU	1.0	3.5	3.5	3.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	10	0
COTX09022-3RuRE/Y	TXRU	3.5	3.5	3.8	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	8	0	0
COTX10080-3Ru	TXRU	1.0	3.5	3.5	3.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09052-2Ru	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
Stampede Russet	TXRU	1.0	4.0	4.0	3.6	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
COTX10111-10Ru	TXRU	1.0	3.5	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10141-13Ru	TXRU	1.0	3.5	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	3	0	3	0
COTX10080-8Ru	TXRU	1.0	3.5	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	15	0	0	0
COTX10141-12Ru	TXRU	1.0	3.5	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10156-5Ru	TXRU	1.0	3.0	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	3	0	0	0
COTX10231-1Ru	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
AORTX06670-1Ru	TXRU	1.0	2.5	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	10
COTX10110-1Ru	TXRU	1.0	4.0	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	5
COTX10084-7Ru	TXRU	1.0	3.0	3.5	3.3	3.5	5.0	5.0	5.0	5.0	5.0	0	0	5	0
ATTX07039-2Ru	TXRU	1.0	3.5	3.5	2.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10092-5Ru	TXRU	1.0	3.0	3.8	3.8	3.8	5.0	5.0	5.0	5.0	5.0	8	0	0	5
ATX00289-2Ru	TXRU	1.0	3.5	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
COTX10111-2Ru	TXRU	1.0	2.5	3.8	3.5	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10111-8Ru	TXRU	1.0	3.0	3.6	3.5	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX08350-12Ru	TXRU	1.0	3.5	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	23	0	3	5
Russet Norkotah	WR	1.0	4.0	4.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
COTX10141-11Ru	TXRU	1.0	3.8	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10117-1Ru	TXRU	1.0	3.5	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	5	0
Average		1.1	3.6	3.6	3.6	3.6	5.0	5.0	5.0	5.0	4.9	3	0	2	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

Dalhart 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 52 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2014.

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
COTX10111-4Ru	TXRU	1.0	4.0	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08322-10Ru	TXRU	1.0	4.0	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX09052-1Ru	TXRU	1.0	3.5	3.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10179-2Ru	TXRU	1.0	4.0	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10141-15Ru	TXRU	1.0	3.0	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX08214-2Ru	TXRU	1.0	4.0	2.0	3.5	2.0	5.0	5.0	5.0	5.0	5.0	15	0	0	0
ATX84378-6Ru	TXRU	1.0	3.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	3	0	3	0
TXNS410	TXRU	1.0	4.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
COTX05095-2Ru/	TXRU	3.0	3.5	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX95265-3Ru	TXRU	1.0	11.4	4.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	10	0	3	0
TXA549-1Ru	TXRU	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	20	0	0	0
COTX10171-2Ru	TXRU	1.0	2.5	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	8
TX08352-5Ru	TXRU	1.0	3.0	3.0	4.0	3.0	5.0	5.0	5.0	5.0	5.0	15	0	0	0
AOTX95265-1Ru	TXRU	1.0	4.0	3.5	3.0	3.5	5.0	5.0	5.0	5.0	5.0	10	0	5	0
AOTX05043-1Ru	TXRU	1.0	2.5	3.5	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0

Average 1.1 3.6 3.6 3.6 3.6 5.0 5.0 5.0 5.0 4.9 3 0 2 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

Dalhart
Table 10e. Notes and general rating for all reps of 52 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
AORTX06670-5Ru	TXRU	small, , lenticels,	3.3, 3.3, 3.3, 3.3
COTX10114-1Ru	TXRU	, too long, pointed, skinny, curved, drop++	2.5, 2.5, 3, 2.5
COTX10013-3Rure	TXRU	, blocky, , red splash, white flesh	3.3, 3.3, 3.3, 3.3
COTX10080-5Ru	TXRU	, light skin, blocky,	3.6, 3.5, 3.7, 3.7
COTX08258-6Ru	TXRU	, nice shape, 1 ZC, BOT-,	3.8, 3.8, 3.7, 3.7
COTX10007-2Ru	TXRU	, , small, nice shape, poor internals	3.6, 3.6, 3.6, 3.6
COTX10080-2Ru	TXRU	, , oversized, nice shape	3.7, 3.7, 3.7, 3.7
COTX10092-1Ru	TXRU	small, too round, , blocky, nice shape, lots of B's	3.4, 3.4, 3.5, 3.6
COTX10007-1Ru	TXRU	too small and round, , , yield+, hollow heart on large tubers, feathering++, nice	3, 3, 3, 3
TX08351-5Ru	TXRU	skin and shape	3.6, 3.6, 3.5, 3.6
AORTX09245-1Ru	TXRU	, pointed, , some pear shaped	3, 2.5, 3, 3
COTX10010-1Ru	TXRU	some pointed, , large tubers, nice flesh,	3.6, 3.6, 3.6, 3.6
COTX10111-1Ru	TXRU	, small, blocky, ,	3.6, 3.5, 3.6, 3.6
COTX09042-2Ru	TXRU	small, , blocky, nice skin,	3.6, 3.6, 3.6, 3.7
COTX10115-1Ru	TXRU	small, , nice shape,	3.6, 3.6, 3.7, 3.7
COTX09022-3RuRE/Y	TXRU	, , red eyes, yellow flesh, BOT, nice shape and flesh	4.5, 4.5, 4.5, 4.5
COTX10080-3Ru	TXRU	, , deep eyes, nice shape	3.6, 3.6, 3.6, 3.7
COTX09052-2Ru	TXRU	light net, small, skinny, pointed,	3.3, 3.3, 3.3, 3.3
Stampede Russet	TXRU	, , large blocky tubers, BOT-	3.7, 3.7, 3.7, 3.7
COTX10111-10Ru	TXRU	small, , ,	3.6, 3.6, 3.6, 3.6
COTX10141-13Ru	TXRU	, blocky, fat tubers, , oversized, pear shaped	3.6, 3.6, 3.6, 3.5
COTX10080-8Ru	TXRU	oversized, , growth cracks, drop,	3.3, 3.3, 3.3, 3.3
COTX10141-12Ru	TXRU	nice shape, flat, , no hollow heart on large tubers, BOT-	3.8, 3.8, 3.8, 3.8
COTX10156-5Ru	TXRU	, , too small, small, smooth	3.5, 3.5, 3.5, 3.5
COTX10231-1Ru	TXRU	poor shape, , small,	2.5, 2.5, 2.5, 0
AORTX06670-1Ru	TXRU	small, , ,	3.3, 3.3, 3.3, 3.3
COTX10110-1Ru	TXRU	blocky, , ,	3, 3, 3, 3
COTX10084-7Ru	TXRU	, light net, too round, blocky	3.5, 3.5, 3.5, 3.5
ATTX07039-2Ru	TXRU	blocky, , deep eyes,	3.6, 3.6, 3.6, 3.5
COTX10092-5Ru	TXRU	, too round, , blocky, nice shape	3.6, 3.6, 3.6, 3.6
ATX00289-2Ru	TXRU	, small, , skinny	3.5, 3.3, 3.3, 3.3
COTX10111-2Ru	TXRU	, drop, , too small, light set	2.8, 2.5, 2.5, 2.5
COTX10111-8Ru	TXRU	, nice shape, , blocky	3.7, 3.5, 3.7, 3.5
TX08350-12Ru	TXRU	some pointed, hollow heart on large tubers, , fat tubers	3.4, 3.6, 3.5, 3.5
Russet Norkotah	WR	, rough, pointed, , small	3.5, 3, 3, 3
COTX10141-11Ru	TXRU	, , blocky, smooth,	3.7, 3.7, 3.6, 3.6
COTX10117-1Ru	TXRU	small, , ,	3, 3, 3, 3

Dalhart
Table 10e. cont. Notes and general rating for all reps of 52 entries in the Texas Advanced Russet Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
COTX10111-4Ru	TXRU	flat, pointed, small+, , , too small	3.3, 3.3, 3.3, 3.3
COTX08322-10Ru	TXRU	, , , nice shape	3.7, 3.6, 3.6, 3.6
COTX09052-1Ru	TXRU	light net, skinny, , too small	3.5, 3.3, 3.3, 3.3
COTX10179-2Ru	TXRU	, , , pointed	3, 2.8, 3, 2.5
COTX10141-15Ru	TXRU	small, , nice skin finish, blocky	3.5, 3.5, 3.5, 3.5
COTX08214-2Ru	TXRU	, , feathering, light net,	3.3, 3.3, 3.3, 3.3
ATX84378-6Ru	TXRU	, light set, , blocky, nice flesh	3.6, 3.6, 3.6, 3.5
TXNS410	TXRU	, nice shape, small, very nice	3.6, 3.5, 3.3, 3.6
COTX05095-2Ru/Y	TXRU	pointed, small, nice flesh, light net, ,	3, 3, 3, 3
AOTX95265-3Ru	TXRU	some rough, , , some pointed	3.5, 3.5, 3.3, 3.5
TXA549-1RU	TXRU	hollow heart on very large tubers, , , blocky, BOT	4, 4, 4, 4
COTX10171-2Ru	TXRU	, too round, blocky, oblong to round, light set	3.3, 3, 3.3, 3.3
TX08352-5Ru	TXRU	hollow heart, oversized, fat, nice flesh, eyes a little deep, some rough	4, 4, 3.8, 4
AOTX95265-1Ru	TXRU	, , light set, skinny, rough, pointed	3, 2.7, 2.5, 2.5
AOTX05043-1Ru	TXRU	, , small, light set	3, 3, 3, 3

2013 Russet Selections Trial, Dalhart

The trial consisted of 136 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, COTX10231-1Ru) will be advanced in 2015 (Table 11).

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 fourteen entries and the check varieties Red LaSoda and Chieftain.

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

- NDTX050070-1R was the outstanding entry based on general rating and best of trial designation, while NDTX092231C-1R, NDTX081572B-1R, COTX07054-2R, TX11448-2R, TX08375-3R, NDTX050070-1R, TX10437-10P, TX11448-3R, and NDTX4784-7R had high general ratings (Tables 12a, and 12e).
- Red LaSoda had the highest total and marketable yield, while NDTX092231C-1R had the highest yield of 4-6 oz. tubers (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 (Table 12a).
- TX08363-2R had the highest percentage marketable yield, while NDTX081572B-1R had the highest percentage of 4-6 oz. and <4 oz. tubers. (Table 12b).
- COTX07054-2R had the highest specific gravity (Table 12b)
- Red LaSoda, COTX07054-2R, TX11448-2R, and TX10437-10P were the latest maturing entries, while NDTX081572B-1R, NDTX4784-7R, and COTX02172-1R were the earliest in maturing entries (Table 12c).
- TX08363-2R had high a rating for feathering (Table 12d).

Comments on entries:

- | | | | |
|------------------|--------|-----|---|
| • Red LaSoda | Round | Red | nice skin color, deep eyes, some brown center, some feathering, |
| • NDTX092231C-1R | Oblong | Red | nice skin finish, too oblong? |
| • NDTX113254-1R | Round | Red | poor shape+, drop |
| • NDTX081572B-1R | Round | Red | nice small shape, smooth |
| • COTX07054-2R | Round | Red | feathering, nice skin color, |
| • TX11448-2R | Oblong | Red | some feathering |
| • COTX02293-4R | Round | Red | light skin |
| • TX08375-3R | Round | Red | nice shape and skin color, nice shape |

- NDTX050070-1R Round Red nice skin color, nice shape, some feathering, BOT
- TX10437-10P Round Purple large tubers, some feathering, nice skin color
- TX11448-3R Oblong Red nice shape, light skin
- NDTX4784-7R Round Red nice skin color and shape
- COTX02172-1R Round Red too oblong??

Summary:

NDTX050070-1R was the outstanding entry 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 14 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
Red LaSoda	WR	678.9	501.8	83.6	226.7	191.5	48.1	129.0	0.0	3.6
NDTX092231C-1R	TXRD	528.9	365.3	117.4	157.2	90.6	0.0	163.7	0.0	3.7
NDTX113254-1R	TXRD	427.9	309.3	55.2	125.5	128.6	0.0	118.6	0.0	2.7
NDTX081572B-1R	TXRD	402.4	192.1	97.1	81.7	13.3	0.0	210.3	0.0	3.8
COTX07054-2R	TXRD	390.8	276.5	56.4	133.8	86.3	0.0	114.3	0.0	3.7
TX11448-2R	TXRD	377.5	285.6	79.7	97.5	108.5	2.9	89.0	0.0	3.8
COTX02293-4R	TXRD	359.1	231.9	76.3	96.5	59.1	13.5	113.7	0.0	3.6
TX08375-3R	TXRD	347.4	217.2	66.4	90.6	60.2	0.0	130.3	0.0	3.7
NDTX050070-1R	TXRD	329.2	205.8	67.0	80.9	57.9	0.0	123.4	0.0	3.8
TX10437-10P	TXRD	327.7	259.7	29.0	97.9	132.8	23.2	44.8	0.0	3.7
TX11448-3R	TXRD	300.8	187.9	70.7	68.7	48.5	0.0	112.8	0.0	3.7
NDTX4784-7R	TXRD	286.7	202.0	21.2	81.3	99.6	25.3	59.3	0.0	3.7
COTX02172-1R	TXRD	240.6	184.2	21.6	64.7	97.9	5.8	50.6	0.0	3.5
TX08363-2R	TXRD	34.0	26.6	0.0	8.3	18.3	0.0	7.5	0.0	2.0
Average		384.5	263.0	64.7	107.9	90.4	9.1	112.3	0.0	3.6
L.S.D. (.05)		51.3	44.1	22.2	24.3	30.3	13.4	30.4		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 14 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Red LaSoda	WR	73.9	12.2	33.5	28.2	7.1	19.0	0.0	1.057	12.7	Round	Red
NDTX092231C-1R	TXRD	69.1	22.2	29.8	17.1	0.0	30.9	0.0	1.060	13.2	Oblong	Red
NDTX113254-1R	TXRD	72.3	12.8	29.1	30.4	0.0	27.7	0.0	1.052	11.8	Round	Red
NDTX081572B-1R	TXRD	47.4	24.0	19.8	3.6	0.0	52.6	0.0	1.059	13.1	Round	Red
COTX07054-2R	TXRD	70.9	14.3	34.3	22.3	0.0	29.1	0.0	1.064	13.9	Round	Red
TX11448-2R	TXRD	75.5	21.0	25.8	28.7	0.8	23.7	0.0	1.051	11.6	Oblong	Red
COTX02293-4R	TXRD	64.2	21.8	26.4	16.0	3.5	32.3	0.0	1.060	13.2	Round	Red
TX08375-3R	TXRD	62.0	19.5	25.9	16.7	0.0	38.0	0.0	1.056	12.5	Round	Red
NDTX050070-1R	TXRD	62.7	20.5	24.9	17.3	0.0	37.3	0.0	1.061	13.4	Round	Red
TX10437-10P	TXRD	79.3	8.8	29.9	40.5	7.0	13.7	0.0	1.053	12.1	Round	Purple
TX11448-3R	TXRD	62.3	23.4	23.1	15.8	0.0	37.7	0.0	1.055	12.3	Oblong	Red
NDTX4784-7R	TXRD	70.5	7.5	28.3	34.8	8.6	20.9	0.0	1.054	12.2	Round	Red
COTX02172-1R	TXRD	76.5	9.1	26.8	40.7	2.3	21.2	0.0	1.051	11.5	Round	Red
TX08363-2R	TXRD	78.0	0.0	24.4	53.7	0.0	22.0	0.0	na	na	Round	Red
Average		68.2	16.7	27.5	24.0	2.3	29.5	0.0	1.056	12.6		
L.S.D. (.05)		6.1	5.3	4.6	7.2	4.1	4.0		0.004	0.8		

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 14 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
Red LaSoda	WR	7.5	5.9	100	1.9	4.0	3.8	4.0	15
NDTX092231C-1R	TXRD	8.5	4.0	100	2.0	3.8	3.1	3.8	39
NDTX113254-1R	TXRD	15.0	4.2	59	1.8	3.3	3.1	3.8	49
NDTX081572B-1R	TXRD	9.2	2.8	100	2.1	3.6	2.4	3.6	73
COTX07054-2R	TXRD	7.0	4.2	88	2.3	3.6	3.7	3.4	18
TX11448-2R	TXRD	11.7	4.3	59	1.6	2.7	4.0	3.1	14
COTX02293-4R	TXRD	9.6	3.8	75	1.9	2.5	3.6	3.2	33
TX08375-3R	TXRD	13.4	3.5	59	1.9	2.8	3.0	3.2	49
NDTX050070-1R	TXRD	7.2	3.6	82	1.8	3.1	3.0	3.5	53
TX10437-10P	TXRD	6.0	6.2	58	2.5	2.8	4.1	3.2	10
TX11448-3R	TXRD	17.6	3.5	37	2.3	2.4	3.1	3.2	44
NDTX4784-7R	TXRD	6.0	6.2	58	1.8	2.8	2.8	3.6	63
COTX02172-1R	TXRD	9.8	5.7	28	2.3	1.8	2.8	2.5	50
TX08363-2R	TXRD	14.3	3.5	5	1.5	1.0	3.5	1.5	25
Average		9.9	4.5	69	2.0	3.0	3.3	3.4	39
L.S.D. (.05)		6.9	0.7	28	0.4	0.9	0.7	0.7	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

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 14 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2014.

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	3.0	1.0	2.0	3.6	5.0	5.0	5.0	5.0	3.8	0	0	0	0
NDTX092231C-1I	TXRD	1.0	3.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	4.8	0	0	0	0
NDTX113254-1R	TXRD	1.0	3.0	1.0	3.8	3.5	5.0	5.0	5.0	5.0	4.8	0	0	0	0
NDTX081572B-1I	TXRD	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.8	0	0	0	0
COTX07054-2R	TXRD	1.0	2.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.6	3	0	0	0
TX11448-2R	TXRD	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.6	0	0	0	0
COTX02293-4R	TXRD	1.0	2.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	4.5	0	0	0	0
TX08375-3R	TXRD	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.8	0	0	0	0
NDTX050070-1R	TXRD	1.0	2.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.7	0	0	0	0
TX10437-10P	TXRD	1.0	3.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
TX11448-3R	TXRD	1.0	2.0	1.0	4.0	3.6	5.0	5.0	5.0	5.0	4.0	0	0	0	0
NDTX4784-7R	TXRD	1.0	3.0	1.0	3.8	4.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
COTX02172-1R	TXRD	1.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	4.5	0	0	0	0
TX08363-2R	TXRD	1.0	3.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	2.0	0	0	0	0
Average		1.0	2.6	1.0	3.8	3.9	5.0	5.0	5.0	5.0	4.4	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

Dalhart
Table 12e.

Notes and general rating for all reps of 14 entries in the Texas Advanced Red Selection Trial
grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
Red LaSoda	WR	nice skin color, deep eyes, some brown center, some feathering,	3.6, 3.6, 3.6, 3.6
NDTX092231C-1R	TXRD	nice skin finish, too oblong?, ,	3.7, 3.7, 3.7, 3.6
NDTX113254-1R	TXRD	poor shape+, drop, , ,	2.5, 3, 2.7, 2.5
NDTX081572B-1R	TXRD	nice small shape, , , smooth	3.8, 3.8, 3.8, 3.8
COTX07054-2R	TXRD	feathering, , nice skin color,	3.8, 3.6, 3.8, 3.7
TX11448-2R	TXRD	, , , some feathering	3.8, 3.8, 3.8, 3.7
COTX02293-4R	TXRD	light skin, , ,	3.6, 3.5, 3.7, 3.6
TX08375-3R	TXRD	, , nice shape and skin color, nice shape	3.8, 3.7, 3.7, 3.7
NDTX050070-1R	TXRD	nice skin color, BOT, , nice shape, some feathering	3.9, 3.8, 3.8, 3.8
TX10437-10P	TXRD	large tubers, some feathering, , nice skin color	3.7, 3.8, 3.7, 3.7
TX11448-3R	TXRD	nice shape, light skin, , ,	3.6, 3.7, 3.6, 3.7
NDTX4784-7R	TXRD	nice skin color and shape, , ,	3.5, 3.5, 3.8, 3.8
COTX02172-1R	TXRD	, , too oblong??,	3.5, 3.5, 3.5, 3.5
TX08363-2R	TXRD	very low yield, feathering, drop, , ,	2, 2, 2, 2

2015 Red Selections Trial, Dalhart

The trial consisted of 13 entries of which 4 (NDTX113254-1R, TX10437-10P , TX11448-2R, TX11448-3R) will be advanced in 2015 (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 twelve entries, including the check variety Sierra Rose.

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

- COTX10138-18P/Y, Sierra Rose, COTX10138-19P/Y, TX11458-2R/Y, ATX02263-1R/Y, TX09420-3R/Y-R, TX09420-1R/Y-R, TX11458-3R/Y, and TX11458-1R/Y had the highest general ratings (Table 14a).
- COTX10138-18P/Y had the highest total and marketable yield (Table 14a)
- Sierra Rose had the highest yield of 4-6 oz. tubers, while ATX02263-1R/Y had the highest yield of <4 oz. tubers (Table 14a).
- Sierra Rose had the highest percentage of marketable yield and 4-6 oz. tubers (Table 14b).
- TX11458-3R/Y had the highest percentage of <4 oz. tubers (Table 14b).
- COTX10138-14P/Y had the highest specific gravity (Table 14b).
- COTX10138-18P/Y, TX11458-3R/Y, TX11458-1R/Y, and COTX10138-14P/Y were the latest maturing entries, while Sierra Rose was the earliest maturing entry (Table 14c).
- COTX10138-18P/Y, COTX10138-19P/Y, TX11458-2R/Y, COTX10138-17P/Y, TX09420-3R/Y-R, TX11458-1R/Y, and COTX10138-14P/Y had the darkest yellow flesh color (Table 14d).

Comments on entries:

- COTX10138-18P/Y Oblong Purple some silver scurf, nice shape, very nice flesh, FC=3.5
- Sierra Rose Oblong Red some nipples, light skin and flesh, some large, silver scurf, FC=3.3
- COTX10138-19P/Y Oblong Purple silver scurf, sticky stolon, FC=3.5
- TX11458-2R/Y Oblong Red feathering, nice flesh, FC=3.5
- COTX10138-17P/Y Oblong Purple faded skin color, nice flesh, FC=3.5
- ATX02263-1R/Y Oblong Red nice skin, some red streaks in flesh, small, nice shape, light flesh, FC=2.5
- TX09420-3R/Y-R Long Red nice skin, poor flesh, red streaks in flesh, FC=3.5
- TX09420-1R/Y-R Round Red poor flesh, nice skin, red streaks in flesh, nice shape, FC=3.0
- TX11458-3R/Y Oblong Red nice skin and flesh, small, FC=3.0

- TX11458-1R/Y Long Red nice shape, FC=3.5
 - COTX10118-7P/Y Oblong Purple shape??, nice flesh, FC=3.0
 - COTX10138-14P/Y Oblong Purple light set+, nice shape and skin, FC=3.5
- ¹FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

COTX10138-18P/Y, Sierra Rose, COTX10138-19P/Y, TX11458-2R/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 12 entries in the Texas Advanced Red/Yellow Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
COTX10138-18P/Y	TXR/Y	589.5	448.0	62.0	202.7	183.4	6.0	135.5	0.0	3.8
Sierra Rose	TX-CO	570.4	440.0	146.0	157.6	136.3	8.5	122.0	0.0	3.7
COTX10138-19P/Y	TXR/Y	553.4	408.8	92.1	187.7	129.0	2.9	141.7	0.0	3.8
TX11458-2R/Y	TXR/Y	542.6	262.2	70.5	175.9	15.8	0.0	280.4	0.0	3.7
COTX10138-17P/Y	TXR/Y	535.0	405.5	76.3	186.7	142.5	4.4	125.1	0.0	3.4
ATX02263-1R/Y	TXR/Y	490.4	209.5	112.4	92.1	5.0	0.0	280.9	0.0	3.8
TX09420-3R/Y-R	TXR/Y	458.0	289.4	80.5	120.3	88.6	0.0	168.6	0.0	3.8
TX09420-1R/Y-R	TXR/Y	424.4	274.8	60.6	140.4	73.8	0.0	149.6	0.0	3.8
TX11458-3R/Y	TXR/Y	385.2	153.9	71.4	66.2	16.4	0.0	226.5	4.8	3.7
TX11458-1R/Y	TXR/Y	375.4	148.9	87.1	46.9	14.9	0.0	214.5	12.0	3.8
COTX10118-7P/Y	TXR/Y	331.1	253.1	42.7	145.2	65.1	0.0	78.0	0.0	3.6
COTX10138-14P/Y	TXR/Y	228.6	173.0	21.6	107.9	43.6	0.0	55.6	0.0	3.6
Average		457.0	288.9	76.9	135.8	76.2	1.8	164.9	1.4	3.7
L.S.D. (.05)		50.3	50.1	28.6	37.2	25.4	ns	50.2	6.3	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 12 entries in the Texas Advanced Red/Yellow Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
COTX10138-18P/Y	TXR/Y	75.9	10.5	34.4	31.0	1.0	23.0	0.0	1.055	12.4	Oblong	Purple
Sierra Rose	TX-CO	76.9	25.3	27.7	23.9	1.5	21.6	0.0	1.066	14.3	Oblong	Red
COTX10138-19P/Y	TXR/Y	73.9	16.5	34.2	23.2	0.5	25.7	0.0	1.055	12.4	Oblong	Purple
TX11458-2R/Y	TXR/Y	48.3	13.0	32.4	2.8	0.0	51.7	0.0	1.057	12.6	Oblong	Red
COTX10138-17P/Y	TXR/Y	76.0	14.5	35.0	26.5	0.9	23.1	0.0	1.056	12.6	Oblong	Purple
ATX02263-1R/Y	TXR/Y	44.0	23.2	19.7	1.1	0.0	56.0	0.0	1.065	14.1	Oblong	Red
TX09420-3R/Y-R	TXR/Y	62.4	17.1	26.0	19.3	0.0	37.6	0.0	1.066	14.2	Long	Red
TX09420-1R/Y-R	TXR/Y	65.0	13.9	33.8	17.3	0.0	35.0	0.0	1.065	14.2	Round	Red
TX11458-3R/Y	TXR/Y	40.0	18.5	17.2	4.3	0.0	58.7	1.3	1.056	12.4	Oblong	Red
TX11458-1R/Y	TXR/Y	39.6	23.2	12.5	3.9	0.0	57.1	3.3	1.057	12.7	Long	Red
COTX10118-7P/Y	TXR/Y	76.5	13.4	44.2	19.0	0.0	23.5	0.0	1.066	14.2	Oblong	Purple
COTX10138-14P/Y	TXR/Y	75.3	9.5	46.4	19.4	0.0	24.7	0.0	1.069	14.8	Oblong	Purple
Average		62.8	16.6	30.3	16.0	0.3	36.5	0.4	1.061	13.4		
L.S.D. (.05)		9.0	5.2	9.3	5.0	ns	8.9	1.8	0.004	0.8		

Dalhart
Table 14c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 12 entries in the Texas Advanced Red/Yellow Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
COTX10138-18P/Y	TXR/Y	7.8	4.9	100	1.6	4.0	4.1	4.0	10
Sierra Rose	TX-CO	7.5	4.9	100	1.5	4.0	3.0	3.8	59
COTX10138-19P/Y	TXR/Y	9.0	4.5	92	1.6	3.6	3.7	3.8	26
TX11458-2R/Y	TXR/Y	15.2	3.5	75	1.5	3.0	3.7	3.5	20
COTX10138-17P/Y	TXR/Y	7.5	4.6	100	1.8	3.8	3.8	3.8	18
ATX02263-1R/Y	TXR/Y	10.6	3.3	96	1.4	3.5	3.4	3.7	35
TX09420-3R/Y-R	TXR/Y	8.0	3.7	100	1.8	3.7	3.5	3.8	28
TX09420-1R/Y-R	TXR/Y	9.0	3.8	83	1.6	3.6	3.5	3.7	30
TX11458-3R/Y	TXR/Y	10.9	2.4	94	1.8	3.7	4.5	3.7	3
TX11458-1R/Y	TXR/Y	9.7	2.9	92	1.5	4.0	4.0	3.8	8
COTX10118-7P/Y	TXR/Y	9.2	4.6	50	1.5	3.3	3.4	3.7	40
COTX10138-14P/Y	TXR/Y	7.6	4.5	45	1.5	2.5	4.0	3.4	5
Average		9.3	4.0	86	1.6	3.5	3.7	3.7	23
L.S.D. (.05)		3.5	0.5	16	ns	0.4	0.4	0.3	17

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

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
COTX10138-18P/Y	TXR/Y	3.5	2.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Sierra Rose	TX-CO	3.3	3.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	4.5	0	0	0	0
COTX10138-19P/Y	TXR/Y	3.5	2.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	4.8	0	0	0	0
TX11458-2R/Y	TXR/Y	3.5	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	3.5	0	0	0	0
COTX10138-17P/Y	TXR/Y	3.5	2.5	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX02263-1R/Y	TXR/Y	2.5	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09420-3R/Y-R	TXR/Y	3.5	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09420-1R/Y-R	TXR/Y	3.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.8	0	0	0	0
TX11458-3R/Y	TXR/Y	3.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	4.5	0	0	0	0
TX11458-1R/Y	TXR/Y	3.5	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.8	0	0	0	0
COTX10118-7P/Y	TXR/Y	3.0	3.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10138-14P/Y	TXR/Y	3.5	3.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.3	2.5	1.0	4.0	4.4	5.0	5.0	5.0	5.0	4.7	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

Dalhart
Table 14e. Notes and general rating for all reps of 12 entries in the Texas Advanced Red/Yellow Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
COTX10138-18P/Y	TXR/Y	some silver scurf, nice shape, , , very nice flesh some nipples, light skin and flesh, some large, silver	3.8, 3.8, 3.8, 3.7
Sierra Rose	TX-CO	scurf, ,	3.7, 3.7, 3.7, 3.7
COTX10138-19P/Y	TXR/Y	silver scurf, sticky stolon, , ,	3.6, 3.8, 3.8, 3.8
TX11458-2R/Y	TXR/Y	feathering, , , nice flesh	3.7, 3.7, 3.7, 3.7
COTX10138-17P/Y	TXR/Y	, , faded skin color, nice flesh, , nice skin, some red streaks in flesh, small, nice shape,	3.3, 3.4, 3.5, 3.5
ATX02263-1R/Y	TXR/Y	light flesh,	3.7, 4, 3.7, 3.7
TX09420-3R/Y-R	TXR/Y	nice skin, poor flesh, , red streaks in flesh	3.8, 3.8, 3.8, 3.8
TX09420-1R/Y-R	TXR/Y	poor flesh, nice skin, red streaks in flesh, nice shape,	3.8, 3.8, 3.7, 3.8
TX11458-3R/Y	TXR/Y	, , , nice skin and flesh, small	3.8, 3.7, 3.7, 3.6
TX11458-1R/Y	TXR/Y	nice shape, , ,	3.8, 3.8, 3.8, 3.8
COTX10118-7P/Y	TXR/Y	shape??, nice flesh, , ,	3.6, 3.6, 3.5, 3.5
COTX10138-14P/Y	TXR/Y	light set+, nice shape and skin, , ,	3.6, 3.6, 3.6, 3.6

2013 Red/Yellow Selections Trial, Dalhart

The trial consisted of 33 entries of which 8 (COTX10118-7P, COTX10138-14P/Y, COTX10138-17P/Y, COTX10138-18P/Y, COTX10138-19P/Y, TX11458-1R/Y, TX11458-2R/Y, TX11458-3R/Y) will be advanced in 2015 (Table 15).

Dalhart
Table 15

Inventory weight of 5 entries to be advanced from the 2013
Red Skin Yellow Flesh Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes	Inventory Weight
ATTX10265-4R/Y	13SEL	Keep	12
TX12471-1R/Y	13SEL	Keep	12
TX12471-7R/Y	13SEL	Keep	8
TX12471-8R/Y	13SEL	Keep	14
TX12472-2R	13SEL	Keep	5

Texas Advanced White/Yellow Selection Trial, Dalhart

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

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

- NDTX059759-3RY/YPinto was the outstanding entry for this trial based on general rating and best of trial designation, while Yukon Gold, COTX10097-2W/Y, COTX10138-8W/YPinto, COTX10138-16W/YPinto, COTX07382-2W/Y, COTX05249-3W/Y, and TXYG079 had high general ratings (Tables 16a and 16e).
- ATTX07230-1Y/RE/Y had the highest total and marketable yield (Table 16a).
- White LaSoda had the highest yield of over 10 oz. tubers. TX08385-1Y/Y had the highest yield of 4-6 oz. tubers, while NDTX059775-1W/Y had the highest yield of <4 oz. tubers. COTX10097-2W/Y had the highest yield of culls/No. 2 tubers (Table 16a).
- White LaSoda had the highest percentage of marketable yield and over 10 oz. tubers (Table 16b).
- COTX05249-3W/Y had the highest percentage of <4 oz. tubers. COTX10097-2W/Y had the highest percentage of culls/No. 2 tubers (Table 16b).
- COTX07382-2W/Y had the highest specific gravity (Table 16b).
- WTX10638-2W/Y, White LaSoda, COTX10138-16W/YPinto, and NDTX059759-3RY/YPintowere the latest maturing entries, while TX08385-1Y/Y, COTX07382-2W/Y, and NDTX071217CB-1W/Y were the earliest maturing entries (Table 16c).
- Yukon Gold, COTX10097-2W/Y, COTX10138-16W/YPinto, and TXYG079 had the darkest yellow flesh (Table 16d).

Comments on entries:

- | | | | | |
|---|-------------------|--------|-------|---|
| • | ATTX07230-1Y/RE/Y | Round | White | deep eyes, rough, red splash, light flesh, FC=2.5 |
| • | TX08385-1Y/Y | Oblong | White | yield+, better net, uneven net, poor shape, nice flesh, drop, FC=3.0 |
| • | WTX10638-2W/Y | Oblong | White | nice flesh, yield+, poor shape, scab++, drop++, FC=3.0 |
| • | NDTX059775-1W/Y | Oblong | White | odd skin color, small potato candidate, smooth, light flesh, small, FC= 2.6 |

- White LaSoda Oblong White red eyes, deep eyes, yield+, large tubers, oversized, FC=1.0
- Yukon Gold Oblong White nice shape and flesh, FC=3.5
- COTX10097-2W/Y Oblong White some rough, nice flesh, smooth, FC=3.5
- COTX10138-8W/Ypinto Round Pinto nice shape, faded purple skin, poor internals, FC=3.0
- COTX10138-16W/Ypinto Oblong Pinto small, 10% ZC?, faded purple skin, nice shape, FC=3.5
- COTX07382-2W/Y Oblong White uniform, smooth skin, nice shape, light flesh, FC=2.5
- COTX04015-3AWRE/Y Oblong White red eyes, poor shape, nipples, nice flesh, FC=3.0
- COTX05249-3W/Y Round White not red eyes, small, FC=3.0
- TXYG079 Oblong White large tubers, nice shape, raised eyes on large tubers, darker flesh than normal, FC=3.5
- NDTX071217CB-1W/Y Oblong White nice shape and flesh, poor internals, some rough, FC=3.0
- NDTX059759-3RY/YPinto Oblong Pinto flat, nice dark red skin, some purple streaks in flesh, BOT, FC=3.0
- COTX03134-1W no data FC=no data

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

Summary:

NDTX059759-3RY/YPinto was the outstanding entry 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 16 entries in the Texas Advanced White/Yellow Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz	Under 4 oz.	Culls/ No.2	General Rating ¹ Grading
			Total Yield	4-6 oz	6-10 oz	10-18 oz				
ATX07230-1Y/RE/Y	TXW/Y	611.7	479.0	118.9	204.9	155.2	12.2	120.5	0.0	3.6
TX08385-1Y/Y	TXW/Y	591.2	409.3	160.8	160.8	87.7	6.2	175.7	0.0	2.6
WTX10638-2W/Y	TXW/Y	567.9	450.9	157.0	176.9	117.0	0.0	117.0	0.0	3.0
NDTX059775-1W/Y	TXW/Y	535.6	277.1	137.5	73.8	65.8	0.0	254.5	3.9	3.6
White LaSoda	TXW/Y	510.1	453.9	53.3	148.1	252.4	7.3	49.0	0.0	3.6
Yukon Gold	WR	497.0	373.0	52.9	161.2	158.9	57.5	66.6	0.0	3.7
COTX10097-2W/Y	TXW/Y	488.9	351.2	98.7	126.9	125.5	0.0	114.7	23.0	3.7
COTX10138-8W/Ypinto	TXW/Y	443.3	335.6	107.2	118.9	109.5	0.0	107.7	0.0	3.7
COTX10138-16W/Ypinto	TXW/Y	436.6	252.0	104.5	98.7	48.7	0.0	184.6	0.0	3.7
COTX07382-2W/Y	TXW/Y	402.0	311.4	78.8	115.5	117.0	8.7	81.9	0.0	3.7
COTX04015-3AWRE/Y	TXW/Y	388.9	304.5	78.8	126.1	99.6	6.0	66.4	12.0	3.4
COTX05249-3W/Y	TXW/Y	356.6	107.9	73.8	28.0	6.0	0.0	248.7	0.0	3.7
TXYG079	TXW/Y	316.7	242.9	25.9	88.6	128.4	31.5	42.3	0.0	3.8
NDTX071217CB-1W/Y	TXW/Y	279.8	206.8	73.2	86.5	47.1	0.0	68.7	4.4	3.5
NDTX059759-3RY/Y Pinto	TXW/Y	250.0	207.0	40.9	85.7	80.5	0.0	42.9	0.0	4.5
COTX03134-1W	TXW/Y	no data	no data	no data	no data	no data	no data	no data	no data	no data
Average		445.1	317.5	90.8	120.0	106.6	8.6	116.1	2.9	3.6
L.S.D. (.05)		57.5	65.0	32.4	30.7	50.0	14.3	32.5	8.4	0.1

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 16 entries in the Texas Advanced White/Yellow Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
ATTX07230-1Y/RE/Y	TXW/Y	78.5	19.3	33.7	25.5	1.9	19.6	0.0	1.058	12.9	Round	White
TX08385-1Y/Y	TXW/Y	69.3	27.3	27.1	15.0	1.0	29.6	0.0	1.066	14.2	Oblong	White
WTX10638-2W/Y	TXW/Y	79.5	27.1	31.2	21.1	0.0	20.5	0.0	1.072	15.3	Oblong	White
NDTX059775-1W/Y	TXW/Y	50.0	25.2	13.3	11.5	0.0	49.3	0.7	1.057	12.7	Oblong	White
White LaSoda	TXW/Y	88.9	10.7	29.0	49.2	1.2	9.9	0.0	1.056	12.5	Oblong	White
Yukon Gold	WR	75.1	10.7	32.5	31.9	11.4	13.5	0.0	1.071	15.2	Oblong	White
COTX10097-2W/Y	TXW/Y	72.1	20.4	26.1	25.6	0.0	23.3	4.6	1.072	15.3	Oblong	White
COTX10138-8W/Ypinto	TXW/Y	75.7	24.2	26.7	24.9	0.0	24.3	0.0	1.058	12.9	Round	Pinto
COTX10138-16W/Ypinto	TXW/Y	57.7	23.9	22.6	11.2	0.0	42.3	0.0	1.059	13.0	Oblong	Pinto
COTX07382-2W/Y	TXW/Y	77.9	19.6	29.5	28.7	1.8	20.4	0.0	1.075	15.8	Oblong	White
COTX04015-3AWRE/Y	TXW/Y	77.9	20.4	32.3	25.2	1.4	17.2	3.5	1.071	15.2	Oblong	White
COTX05249-3W/Y	TXW/Y	30.4	21.0	7.8	1.6	0.0	69.6	0.0	1.063	13.7	Round	White
TXYG079	TXW/Y	76.7	8.6	27.8	40.3	10.0	13.3	0.0	1.070	15.0	Oblong	White
NDTX071217CB-1W/Y	TXW/Y	73.8	26.0	30.9	16.9	0.0	24.6	1.6	1.058	12.9	Oblong	White
NDTX059759-3RY/Y Pinto	TXW/Y	82.4	16.7	34.4	31.2	0.0	17.6	0.0	1.065	14.1	Oblong	Pinto
COTX03134-1W	TXW/Y	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Average		71.1	20.1	27.0	24.0	1.9	26.3	0.7	1.065	14.1		
L.S.D. (.05)		8.5	6.4	6.3	8.8	2.5	7.9	2.2	0.003	0.5		

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 16 entries in the Texas Advanced White/Yellow Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
ATTX07230-1Y/RE/Y	TXW/Y	8.2	4.8	100	1.9	3.8	3.6	3.9	45
TX08385-1Y/Y	TXW/Y	9.7	4.0	100	1.6	4.4	2.5	4.3	80
WTX10638-2W/Y	TXW/Y	8.5	4.3	100	2.0	4.2	5.0	4.3	0
NDTX059775-1W/Y	TXW/Y	10.6	3.2	100	1.9	3.8	3.8	3.9	20
White LaSoda	TXW/Y	5.2	6.2	100	2.0	4.4	4.4	4.4	4
Yukon Gold	WR	4.4	7.3	100	1.0	3.6	3.0	3.6	58
COTX10097-2W/Y	TXW/Y	6.7	4.8	100	1.8	3.5	2.9	3.7	59
COTX10138-8W/Ypinto	TXW/Y	7.0	4.1	100	2.0	3.6	3.8	3.6	19
COTX10138-16W/Ypinto	TXW/Y	7.9	3.7	100	1.5	4.1	4.6	4.0	5
COTX07382-2W/Y	TXW/Y	5.7	4.8	96	2.0	3.5	2.3	3.5	80
COTX04015-3AWRE/Y	TXW/Y	5.2	4.8	100	1.5	3.7	3.3	3.8	45
COTX05249-3W/Y	TXW/Y	10.5	2.6	83	1.9	3.2	4.0	3.5	16
TXYG079	TXW/Y	3.9	5.8	92	1.0	2.9	3.7	3.3	36
NDTX071217CB-1W/Y	TXW/Y	5.5	3.3	100	2.3	2.9	1.5	3.1	96
NDTX059759-3RY/Y Pinto	TXW/Y	3.5	4.6	100	1.8	3.7	4.2	3.6	11
COTX03134-1W	TXW/Y	no data	no data	no data	no data	no data	no data	no data	no data
Average		6.8	4.5	98	1.7	3.7	3.5	3.8	38
L.S.D. (.05)		1.3	0.7	7	0.4	0.4	0.6	0.2	15

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 16 entries in the Texas Advanced White/Yellow Selection Trial grown near Dalhart, Texas-2014.

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	2.5	2.0	1.0	3.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX08385-1Y/Y	TXW/Y	3.0	3.0	1.0	3.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
WTX10638-2W/Y	TXW/Y	3.0	3.0	1.0	2.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059775-1W/Y	TXW/Y	2.6	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	5	0
White LaSoda	TXW/Y	1.0	3.0	1.0	2.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Yukon Gold	WR	3.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10097-2W/Y	TXW/Y	3.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10138-8W/Ypinto	TXW/Y	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	10	8
COTX10138-16W/Ypinto	TXW/Y	3.5	2.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX07382-2W/Y	TXW/Y	2.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04015-3AWRE/Y	TXW/Y	3.0	3.0	1.0	3.5	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	5
COTX05249-3W/Y	TXW/Y	3.0	2.0	1.0	3.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXYG079	TXW/Y	3.5	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX071217CB-1W/Y	TXW/Y	3.0	3.0	1.0	3.8	1.0	5.0	5.0	5.0	5.0	5.0	5	0	0	10
NDTX059759-3RY/Y Pinto	TXW/Y	3.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX03134-1W	TXW/Y	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Average		2.9	2.8	1.0	3.6	1.0	5.0	5.0	5.0	5.0	5.0	1	0	1	2

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 16 entries in the Texas Advanced White/Yellow Selection
Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Grading	General Rating Grading
ATTX07230-1Y/RE/Y	TXW/Y	, , deep eyes, rough, red splash, light flesh yield+, better net, drop, , uneven net, poor shape, nice	3.6, 3.6, 3.6, 3.7
TX08385-1Y/Y	TXW/Y	flesh	2.5, 2.5, 3, 2.5
WTX10638-2W/Y	TXW/Y	nice flesh, yield+, , , poor shape, scab++, drop++ , odd skin color, small potato candidate, smooth, light	3, 3, 3, 3
NDTX059775-1W/Y	TXW/Y	flesh, small	3.6, 3.6, 3.6, 3.6
White LaSoda	TXW/Y	red eyes, deep eyes, yield+, , large tubers, oversized,	3.6, 3.6, 3.6, 3.7
Yukon Gold	WR	, , , nice shape and flesh	3.7, 3.6, 3.7, 3.7
COTX10097-2W/Y	TXW/Y	some rough, nice flesh, , , smooth	3.7, 3.7, 3.6, 3.7
COTX10138-8W/Ypinto	TXW/Y	, nice shape, faded purple skin, , , poor internals	3.7, 3.8, 3.7, 3.7
COTX10138-16W/Ypinto	TXW/Y	, small, 10% ZC?, faded purple skin, nice shape,	3.7, 3.7, 3.7, 3.7
COTX07382-2W/Y	TXW/Y	, , uniform, smooth skin, nice shape, light flesh	3.7, 3.7, 3.8, 3.7
COTX04015-3AWRE/Y	TXW/Y	red eyes, poor shape, nipples, nice flesh	3.5, 3.3, 3.3, 3.5
COTX05249-3W/Y	TXW/Y	, not red eyes, small, , large tubers, nice shape, raised eyes on large tubers,	3.5, 3.8, 3.8, 3.8
TXYG079	TXW/Y	darker flesh than normal	3.8, 3.8, 3.8, 3.7
NDTX071217CB-1W/Y	TXW/Y	nice shape and flesh, , poor internals, some rough , , BOT, flat, nice dark red skin, some purple streaks in	3.5, 3.5, 3.5, 3.5
NDTX059759-3RY/Y Pinto	TXW/Y	flesh	4.5, 4.5, 4.5, 4.5
COTX03134-1W	TXW/Y	no data	no data

2013 White/Yellow Selections Trial, Dalhart

The trial consisted of 15 entries of which 6 (NDTX113438CB-1WRSPL, AORTX11913-3Wre/Y, COTX11130-1WRE/Y, COTX11140-2WRE/Y, NDTX113461-1Rpinto, and TX12471-5W/Y) will be advanced in 2015 (Table 15).

Dalhart
Table 15

Inventory weight of 6 entries to be advanced from the 2013
Red Skin Yellow Flesh Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes	Inventory Weight
NDTX113438CB-1WRSPL	13SEL	Keep	24
AORTX11913-3Wre/Y	13SEL	Keep	19
COTX11130-1WRE/Y	13SEL	Keep	3
COTX11140-2WRE/Y	13SEL	Keep	6
NDTX113461-1Rpinto	13SEL	Keep	1
TX12471-5W/Y	13SEL	Keep	10

Texas Advanced Small Potato Selection Trial, Dalhart

This trial consisted of twenty-one entries.

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

- ATTX05175S-1R/Y and COTX10073S-1W were the outstanding entries based on general ratings and best of trial notations, while TX09406S-1P/P NDTX092238CS-1P/W NDTX102816CABS-1W TX11448S-4R NDTX071258BS-1R also received high general ratings (Tables 17a and 17e).
- NDTX102639CS-1W had the highest total, marketable, and yield of over 3 inch tubers (Table 17a)
- NDTX102816CABS-2W had the highest percentage of marketable tubers. NDTX102796CbS-2W had the highest percentage of over 3 inch tubers (Table 17b).
- COTX10118S-3WRE/Y, COTX10138S-7WPE/Y, TX09406S-1P/P, COTX10226S-1WRE/Y, and NDTX102816CABS-2W had the highest average number of tubers per plant (Table 17c).
- COTX10118S-3WRE/Y, NDTX102796CbS-2W, ATX06254S-2R, NDTX059886S-1W/Y, ATX05186S-1R, NDTX102816CABS-1W, ATTX05186S-3W/Y, ATX07175S-2R/Y, COTX10073S-1W, and NDTX050184S-1R/Y were the latest maturing entries, while NDTX113270S-2W, TX11448S-4R, NDTX071258BS-1R, and COTX04193S-2R/Y were the earliest maturing entries (Table 17c).
- COTX10226S-1WRE/Y ATX07175S-2R/Y ATTX05175S-1R/Y COTX04193S-2R/Y had the darkest yellow flesh. TX09406S-1P/P and COTX04050S-1P/P had very dark purple flesh (Table 17d).

Comments on entries:

- NDTX102639CS-1W Round White nice tuber set, average skin finish, round, heavy set, nice shape, BOT-, FC=1.0
- NDTX092238CS-3P/W Oblong Purple nice shape, poor skin finish, knobs, check tuber count, nice size, FC=1.0
- NDTX092238CS-4P/W Round Purple nice color, poor shape, nice skin, drop, FC=1.0
- COTX10118S-3WRE/Y Round White deep eyes, poor shape, small, drop, FC=3.0
- COTX10138S-7WPE/Y Round White purple eyes, uniform, round, nice skin finish, specialty, light flesh, FC=2.5
- NDTX102796CbS-2W Oblong White some russeting, round, larger tubers, smooth skin, FC=1.0

- ATX06254S-2R Oblong Red nice color, deep eyes, not round, nice skin finish and shape, FC=1.0
- TX09406S-1P/P Round Purple nice shape and color, uniformly small, average skin finish, some silver scurf, FC=5.0
- NDTX059886S-1W/Y Round White nice round shape, shallow eyes, 1 rating if high tuber count, smooth, nice shape and flesh, BOT, FC=3.0
- NDTX092238CS-1P/W Round Purple nice bright purple color, average for shape, very nice skin and shape, FC=1.0
- NDTX113270S-2W Oblong White some mixed, oblong, poor size and shape, too oblong, drop, FC=1.0
- ATX05186S-1R Round Red to pale skin, nice shape and size, drop, FC=1.0
- NDTX102816CABS-1W Round White nice round shape, shallow eyes, uniform, average skin finish, nice size, BOT, FC=1.0
- COTX10226S-1WRE/Y Round White uniform, lot of variability in red splash, some poor netting, deep eyes, poor shape, nice small size and flesh, red splash, drop, FC=3.5
- ATTX05186S-3W/Y Round White not uniform, deep eyes, nice skin finish, drop unless very high tubers per plant, nice shape and flesh, FC=3.0
- ATX07175S-2R/Y Round Red poor shape, not very round, poor netting, nice skin color, nice flesh, drop, FC=3.5
- ATTX06246S-1R Oblong Red poor skin finish, nice color, some large tubers, some road map, drop, FC=1.0
- TX11448S-4R Round Red nice round shape, good skin finish, check tuber count, light skin, FC=1.0
- NDTX113270S-4W Oblong White oblong, not uniform, light set, too oblong, drop, FC=1.0
- ATTX05175S-1R/Y Round Red uniform size, nice skin finish, deep eyes, low tuber #, very nice flesh, nice small size, BOT, FC=3.5
- ATX06264S-4R/Y Round Red smooth skin finish, nice color, average eye depth, dark skin color, very round, not uniform profile, check tuber count, nice skin color, FC=3.0
- NDTX071258BS-1R Round Red round good skin color, 1 rating if high tuber count, nice size, light skin, FC=1.0
- COTX10073S-1W Round White high set, uniform profile, round, some netting or russetting, very nice, BOT, FC=1.0
- NDTX102816CABS-2W Oblong White lots of small tubers, poor skin finish, uniformly small tubers, check tuber count, very small, poor shape, size parent, FC=1.0
- COTX04050S-1P/P Oblong White nice flesh, poor skin color, dull black, nice skin, dark flesh, too oblong?, FC=4.5
- NDTX050184S-1R/Y Round Purple smooth skin finish, nice color, light set, check tuber count, light skin, nice flesh, FC=3.0
- COTX04193S-2R/Y Oblong Red nice round shape, shallow eyes, 1 rating if high tuber count, very nice flesh, FC=3.5

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

Summary:

ATTX05175S-1R/Y and COTX10073S-1W were the outstanding entries based on all factors,

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Table 17a.

Total yield, total yield of 1-2, 2-3, over 3 inch tubers, and general rating of 27 entries in the Texas Advanced Small
Potato Selection Trial, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre			Over 3 inch	General Rating ¹ Field	General Rating ¹ Grading
			Total Yield	1-2 inch	2-3 inch			
NDTX102639CS-1W	TXSM	686.4	543.0	361.3	181.7	143.3	2.0	3.8
NDTX092238CS-3P/W	TXSM	575.2	522.5	330.6	191.9	52.7	2.3	3.8
NDTX092238CS-4P/W	TXSM	546.4	483.9	332.3	151.6	62.4	3.0	3.8
COTX10118S-3WRE/Y	TXSM	521.3	472.1	392.2	79.9	49.2	3.0	3.8
COTX10138S-7WPE/Y	TXSM	511.9	492.6	409.0	83.6	19.3	2.0	3.8
NDTX102796CbS-2W	TXSM	506.1	366.1	232.5	133.6	140.0	3.0	3.6
ATX06254S-2R	TXSM	479.0	422.5	337.5	85.0	56.4	2.0	3.7
TX09406S-1P/P	TXSM	472.1	439.7	349.3	90.4	32.4	1.0	3.7
NDTX059886S-1W/Y	TXSM	457.2	383.3	278.6	104.8	73.8	2.0	4.0
NDTX092238CS-1P/W	TXSM	442.4	370.3	230.0	140.2	72.2	1.2	4.0
NDTX113270S-2W	TXSM	429.0	377.9	292.9	85.0	51.0	3.0	3.4
ATX05186S-1R	TXSM	423.6	382.3	313.4	68.9	41.3	3.0	3.6
NDTX102816CABS-1W	TXSM	419.8	409.3	340.6	68.7	10.6	1.0	4.0
COTX10226S-1WRE/Y	TXSM	412.4	402.2	340.2	62.0	10.2	3.0	3.7
ATX05186S-3W/Y	TXSM	412.0	340.6	250.8	89.8	71.4	3.0	3.6
ATX07175S-2R/Y	TXSM	410.7	339.6	220.1	119.5	71.1	3.0	3.7
ATX06246S-1R	TXSM	409.3	323.8	205.6	118.2	85.5	3.0	3.7
TX11448S-4R	TXSM	396.6	301.4	186.1	115.3	95.2	1.0	3.7
NDTX113270S-4W	TXSM	396.4	361.5	273.0	88.6	34.8	3.0	3.5
ATX05175S-1R/Y	TXSM	384.8	368.4	293.9	74.5	16.4	1.0	4.0
ATX06264S-4R/Y	TXSM	346.4	284.8	207.6	77.2	61.6	2.0	3.6
NDTX071258BS-1R	TXSM	338.9	303.3	256.6	46.7	35.7	1.2	3.9
COTX10073S-1W	TXSM	309.9	301.6	249.1	52.5	8.3	1.0	4.0
NDTX102816CABS-2W	TXSM	297.0	297.0	290.2	6.8	0.0	3.0	3.5
COTX04050S-1P/P	TXSM	288.9	268.6	215.1	53.5	20.3	3.0	3.6
NDTX050184S-1R/Y	TXSM	261.4	205.1	142.9	62.2	56.2	3.0	3.6
COTX04193S-2R/Y	TXSM	206.6	206.6	146.4	60.2	0.0	2.0	3.8
Average		434.9	382.3	287.5	94.8	52.6	2.2	3.7
L.S.D. (.05)		46.1	55.4	46.3	37.3	33.5	0.1	0.1

¹ 1=Good to 3=drop

² 1=very poor to 5= excellent

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Table 17b.

Percent by weight of 1-2, 2-3, over 3 inch tubers, specific gravity, tuber type and skin type of 27 entries in the Texas Advanced Small Potato Selection Trial, Texas-2014.

Variety or Selection	Trial	Percent by Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		1-2 inch	2-3 inch	over 3 inch				
NDTX102639CS-1W	TXSM	52.6	26.4	21.1	1.063	13.8	Round	White
NDTX092238CS-3P/W	TXSM	58.4	32.7	9.0	1.073	15.4	Oblong	Purple
NDTX092238CS-4P/W	TXSM	60.9	27.8	11.3	1.071	15.2	Round	Purple
COTX10118S-3WRE/Y	TXSM	75.0	15.4	9.6	1.054	12.1	Round	White
COTX10138S-7WPE/Y	TXSM	79.7	16.4	3.9	1.065	14.0	Round	White
NDTX102796CbS-2W	TXSM	46.3	26.1	27.6	1.059	13.0	Oblong	White
ATX06254S-2R	TXSM	70.5	17.8	11.7	1.062	13.6	Round	Red
TX09406S-1P/P	TXSM	74.8	18.0	7.2	1.062	13.5	Round	Purple
NDTX059886S-1W/Y	TXSM	60.9	23.0	16.1	1.063	13.7	Round	White
NDTX092238CS-1P/W	TXSM	52.3	31.3	16.4	1.069	14.8	Round	Purple
NDTX113270S-2W	TXSM	68.3	20.2	11.5	1.074	15.6	Oblong	White
ATX05186S-1R	TXSM	73.7	16.6	9.6	1.064	14.0	Round	Red
NDTX102816CABS-1W	TXSM	80.7	16.3	2.9	1.088	18.3	Round	White
COTX10226S-1WRE/Y	TXSM	82.8	14.8	2.4	1.058	12.9	Round	White
ATX05186S-3W/Y	TXSM	61.4	21.5	17.2	1.068	14.7	Round	White
ATX07175S-2R/Y	TXSM	52.9	28.9	18.2	1.062	13.5	Round	Red
ATX06246S-1R	TXSM	51.0	29.0	20.0	1.057	12.7	Oblong	Red
TX11448S-4R	TXSM	47.8	28.3	24.0	1.060	13.2	Round	Red
NDTX113270S-4W	TXSM	69.2	22.0	8.8	1.080	16.8	Oblong	White
ATX05175S-1R/Y	TXSM	76.4	19.7	3.9	1.069	14.8	Round	Red
ATX06264S-4R/Y	TXSM	59.7	22.0	18.2	1.062	13.6	Round	Red
NDTX071258BS-1R	TXSM	75.7	13.9	10.5	1.065	14.1	Round	Red
COTX10073S-1W	TXSM	80.7	16.7	2.5	1.069	14.8	Round	White
NDTX102816CABS-2W	TXSM	98.0	2.0	0.0	1.079	16.5	Oblong	White
COTX04050S-1P/P	TXSM	73.7	18.5	7.8	1.064	14.0	Round	Purple
NDTX050184S-1R/Y	TXSM	55.1	23.6	21.3	1.062	13.5	Oblong	Red
COTX04193S-2R/Y	TXSM	70.7	29.3	0.0	1.060	13.2	Oblong	Red
Average		67.3	21.0	11.7	1.066	14.3		
L.S.D. (.05)		8.5	7.0	7.7	0.003	0.5		

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Table 17c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 27 entries in the Texas Advanced Small Potato Selection Trial, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
NDTX102639CS-1W	TXSM	12.3	3.6	100	2.0	3.9	3.9	4.0	11
NDTX092238CS-3P/W	TXSM	12.4	3.0	100	1.5	4.3	3.8	4.4	11
NDTX092238CS-4P/W	TXSM	12.1	2.9	100	1.5	4.1	3.8	4.1	14
COTX10118S-3WRE/Y	TXSM	13.4	2.6	100	1.5	3.8	4.0	3.9	10
COTX10138S-7WPE/Y	TXSM	15.0	2.2	100	2.0	3.6	3.2	3.5	50
NDTX102796CbS-2W	TXSM	10.0	3.3	100	1.8	4.0	5.0	4.2	0
ATX06254S-2R	TXSM	11.9	2.6	100	1.8	3.9	4.1	4.0	11
TX09406S-1P/P	TXSM	13.6	2.2	100	1.5	3.7	3.5	3.7	41
NDTX059886S-1W/Y	TXSM	11.0	2.7	100	1.8	3.8	4.3	3.8	14
NDTX092238CS-1P/W	TXSM	9.4	3.0	100	1.5	4.1	3.5	3.9	25
NDTX113270S-2W	TXSM	10.4	2.6	100	2.0	3.7	2.5	3.5	74
ATX05186S-1R	TXSM	11.0	2.5	100	1.5	4.0	4.3	4.0	6
NDTX102816CABS-1W	TXSM	12.2	2.2	100	1.5	4.3	4.2	4.3	9
COTX10226S-1WRE/Y	TXSM	14.0	1.9	100	1.8	3.8	3.5	3.9	43
ATX05186S-3W/Y	TXSM	9.0	3.0	100	1.5	4.7	4.8	4.4	3
ATX07175S-2R/Y	TXSM	10.1	2.6	100	1.5	4.4	5.0	4.5	0
ATX06246S-1R	TXSM	8.0	3.4	97	1.5	3.7	3.5	3.7	41
TX11448S-4R	TXSM	10.6	3.3	75	1.8	3.4	2.6	3.6	71
NDTX113270S-4W	TXSM	10.8	2.4	100	2.0	3.7	3.4	3.8	38
ATX05175S-1R/Y	TXSM	11.7	2.1	100	1.5	3.7	3.8	3.7	24
ATX06264S-4R/Y	TXSM	7.2	3.1	100	1.5	4.0	3.7	4.0	25
NDTX071258BS-1R	TXSM	10.4	2.1	100	1.8	3.3	2.5	3.3	69
COTX10073S-1W	TXSM	9.2	2.2	100	1.5	3.9	4.7	3.9	3
NDTX102816CABS-2W	TXSM	14.6	1.3	100	2.0	3.7	3.7	3.9	34
COTX04050S-1P/P	TXSM	9.1	2.1	100	1.5	4.0	3.5	3.8	36
NDTX050184S-1R/Y	TXSM	9.8	3.0	58	2.0	2.5	4.1	3.2	14
COTX04193S-2R/Y	TXSM	5.1	2.6	100	2.0	2.0	2.8	2.0	65
Average		11.2	2.6	99	1.7	3.9	3.8	3.9	26
L.S.D. (.05)		2.0	0.5	4	0.3	0.3	0.5	0.3	16

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 17d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 27 entries in the Texas Advanced Small Potato Selection Trial, Texas-2014.

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
NDTX102639CS-1W	TXSM	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX092238CS-3P/W	TXSM	1.0	2.5	1.0	3.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX092238CS-4P/W	TXSM	1.0	2.0	1.0	3.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10118S-3WRE/Y	TXSM	3.0	2.0	1.0	3.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10138S-7WPE/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
NDTX102796CbS-2W	TXSM	1.0	2.5	1.0	3.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX06254S-2R	TXSM	1.0	2.0	1.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX09406S-1P/P	TXSM	5.0	2.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059886S-1W/Y	TXSM	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX092238CS-1P/W	TXSM	1.0	2.0	1.0	3.8	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113270S-2W	TXSM	1.0	3.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX05186S-1R	TXSM	1.0	2.0	1.0	3.5	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102816CABS-1W	TXSM	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10226S-1WRE/Y	TXSM	3.5	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX05186S-3W/Y	TXSM	3.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX07175S-2R/Y	TXSM	3.5	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX06246S-1R	TXSM	1.0	3.0	1.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX11448S-4R	TXSM	1.0	2.0	1.0	3.5	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113270S-4W	TXSM	1.0	3.0	1.0	3.8	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX05175S-1R/Y	TXSM	3.5	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX06264S-4R/Y	TXSM	3.0	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX071258BS-1R	TXSM	1.0	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10073S-1W	TXSM	1.0	2.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX102816CABS-2W	TXSM	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04050S-1P/P	TXSM	4.5	3.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX050184S-1R/Y	TXSM	3.0	3.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04193S-2R/Y	TXSM	3.5	2.0	1.0	4.0	3.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average		2.1	2.2	1.0	3.8	2.8	5.0	5.0	5.0	5.0	5.0	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

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Table 17e.

Notes and general rating for all reps of 27 entries in the Texas Advanced Small Potato Selection Trial, Texas-2014.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
NDTX102639CS-1W	TXSM	,, nice tuber set, average skin finish, round,	, heavy set, , nice shape, BOT-	2, 2, 2, 2	3.8, 3.8, 3.8, 3.8
NDTX092238CS-3P/W	TXSM	,, nice shape, poor skin finish, knobs, check tuber count,	nice shape and skin, nice size, ,	2.3, 2.3, 2.3, 2.3	3.8, 3.8, 3.8, 3.8
NDTX092238CS-4P/W	TXSM	,, , nice color, poor shape, drop	, nice skin, ,	3, 3, 3, 3	3.8, 3.8, 3.8, 3.8
COTX10118S-3WRE/Y	TXSM	,, , deep eyes, poor shape drop	, small, , deep eyes	3, 3, 3, 3	3.7, 3.7, 3.8, 3.8
COTX10138S-7WPE/Y	TXSM	,, purple eyes, uniform, round, nice skin finish, specialty,	, , purple eyes, light flesh	2, 2, 2, 2	3.8, 3.8, 3.8, 3.8
NDTX102796CbS-2W	TXSM	,, some russeting, round,	, , larger tubers, smooth skin,	3, 3, 3, 3	3.6, 3.6, 3.6, 3.6
ATX06254S-2R	TXSM	,, nice color, deep eyes, nor round, nice skin finish,	, , nice skin color and shape,	2, 2, 2, 2	3.6, 3.7, 3.6, 3.7
TX09406S-1P/P	TXSM	,, , nice shape and color, uniformly small, average skin finish	, some silver scurf, ,	1, 1, 1, 1	3.6, 3.8, 3.6, 3.6
NDTX059886S-1W/Y	TXSM	, nice round shape, shallow eyes, 1 rating if high tuber count, ,	BOT, , , smooth, nice shape and flesh	2, 2, 2, 2	4, 4, 4, 4
NDTX092238CS-1P/W	TXSM	,, , nice bright purple color, average for shape	, , very nice skin and shape,	1.2, 1.2, 1.2, 1.2	4, 4, 4, 4
NDTX113270S-2W	TXSM	some mixed, oblong, poor size, drop, , ,	too oblong, , poor shape,	3, 3, 3, 3	3.5, 3.3, 3.3, 3.5
ATX05186S-1R	TXSM	, to pale skin, drop, ,	, nice shape and size, ,	3, 3, 3, 3	3.6, 3.6, 3.6, 3.6
NDTX102816CABS-1W	TXSM	,, nice round shape, shallow eyes, uniform, average skin finish,	, , BOT, nice size,	1, 1, 1, 1	4, 4, 4, 4
COTX10226S-1WRE/Y	TXSM	uniform, lot of variability in red splash, some poor netting, deep eyes, poor shape, drop, , ,	nice small size and flesh, red splash, , ,	3, 3, 3, 3	3.8, 3.6, 3.7, 3.7
ATX05186S-3W/Y	TXSM	,, not uniform, deep eyes, nice skin finish, drop unless very high tubers per plant,	, , nice shape and flesh	3, 3, 3, 3	3.6, 3.6, 3.6, 3.6
ATX07175S-2R/Y	TXSM	,, poor shape, not very round, poor netting, drop,	nice skin color, , nice flesh,	3, 3, 3, 3	3.6, 3.7, 3.7, 3.7
ATX06246S-1R	TXSM	,, , poor skin finish, nice color, drop	nice color, some large tubers, , some road map,	3, 3, 3, 3	3.8, 3.6, 3.8, 3.6
TX11448S-4R	TXSM	,, , nice round shape, good skin finish, check tuber count	, , , nice shape, light skin	1, 1, 1, 1	3.8, 3.5, 3.8, 3.8
NDTX113270S-4W	TXSM	,, , oblong, not uniform, drop	light set, , , too oblong	3, 3, 3, 3	3.5, 3.5, 3.5, 3.5
ATX05175S-1R/Y	TXSM	, uniform size, nice skin finish, deep eyes, low tuber #, , , smooth skin finish, nice color, average eye depth,	BOT, very nice flesh, , nice small size,	1, 1, 1, 1	4, 4, 4, 4
ATX06264S-4R/Y	TXSM	dark skin color, very round, not uniform profile, check	, , , nice skin color	2, 2, 2, 2	3.6, 3.6, 3.6, 3.6
NDTX071258BS-1R	TXSM	round good skin color, 1 rating if high tuber count, , , , high set, uniform profile, round, some netting or	, nice size, , light skin	1.2, 1.2, 1.2, 1.2	3.9, 4, 3.9, 3.8
COTX10073S-1W	TXSM	russeting, ,	, very nice BOT, ,	1, 1, 1, 1	4, 4, 4, 4
NDTX102816CABS-2W	TXSM	, lots of small tubers, poor skin finish, uniformly small tubers, check tuber count, ,	very small, poor shape, size parent, ,	3, 3, 3, 3	3.5, 3.5, 3.5, 3.5
COTX04050S-1P/P	TXSM	,, nice flesh, poor skin color, dull black, , , smooth skin finish, nice color, light set, check tuber count,	, , nice skin, dark flesh, too oblong?, , , , light skin, nice flesh	3, 3, 3, 3	3.6, 3.6, 3.6, 3.6
NDTX050184S-1R/Y	TXSM	nice round shape, shallow eyes, 1 rating if high tuber count, , ,	very nice flesh, very nice flesh, ,	2, 2, 2, 2	3.8, 3.8, 3.8, 3.8

2013 Small Potato Selections Trial, Dalhart

The trial consisted of 87 entries of which 12 (NDTX102639C-1W, NDTX102796Cb-2W, COTX10118-3, COTX10226-1, ATX07175-2R/Y, TX11448-4R, COTX10073-1W, NDTX102816CAB-1W, NDTX102816CAB-2W, NDTX113270-2W, NDTX113270-4W, COTX10138-7W/Y) will be advanced in 2015 (Table 18).

Dalhart
Table 18

Inventory weight of 26 entries to be advanced from the 2013 Small Potato
Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes	Inventory Weight
NDTX113037C-2W	Dalhart	Keep, good skin finish, nice, sprouts 0	23
TX12471-10W/Y	Dalhart	Keep, yield+, nice, pear shaped, sprouts 0	50
AORTX09147-1W	Dalhart	Keep, sprouts 1	1
AORTX11468-1W	Dalhart	Keep, sprouts 0	2
AORTX11513-1W	Dalhart	Keep, sprouts 1	1
AORTX11913-4PU	Dalhart	Keep, sprouts 1	4
AORTX11913-5PU	Dalhart	Keep, nice, sprouts 2	12
AORTX11913-6PU	Dalhart	Keep, sprouts 2	6
AORTX11913-8WRE/Y	Dalhart	Keep, sprouts 2	10
AORTX11914-4W	Dalhart	Keep, sprouts 1	2
ATX08098-1W	Dalhart	Keep, sprouts 2	5
ATX08117-3P	Dalhart	Keep, sprouts 0	5
ATX08121-1R/Y	Dalhart	Keep, nice, sprouts 3	10
ATX11039-1W	Dalhart	Keep, sprouts 2	5
COTX10065-3W	Dalhart	Keep, sprouts 3	2
COTX11140-1W/Y	Dalhart	Keep, sprouts 0	4
COTX11140-3W/Y	Dalhart	Keep, sprouts 1	7
COTX11267-2WRE/Y	Dalhart	Keep, red eyes, sprouts 1	7
NDTX113432C-2R	Dalhart	Keep, sprouts 3	6
NDTX113460C-3W	Dalhart	Keep, very white fresh, sprouts 1	6
NDTX113461-2R	Dalhart	Keep, sprouts 2	14
TX12471-4R/Y	Dalhart	Keep, sprouts 3	17
TX12471-6W/Y	Dalhart	Keep, sprouts 0	5
TX12472-1R/Y	Dalhart	Keep, very small size, heavy set, sprouts 1	4
TX12475-1P/P	Dalhart	Keep, small size, sprouts 2	6
TX12494-1R/Y	Dalhart	Keep, sprouts 1	3

Texas Advanced Fingerling Selection Trial, Dalhart

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

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

- COTX08365F-1P/P was the outstanding entry for this trial based on general ratings (Table 19a).
- COTX08365F-3P/P had the highest total yield, while COTX08365F-1P/P had the highest marketable yield (Table 19a)
- COTX08365F-1P/P had the highest yield of < 1 inch tubers. COTX08365F-3P/P had the highest yield of oversized tubers. COTX08044F-1R/R had the highest yield of culls/No. 2 tubers (Table 19a).
- COTX08365F-1P/P had the highest percentage of marketable yield and yield of <1 inch tubers. Banana had the highest percentage of culls/No. 2 tubers (Table 19b).
- COTX08365F-3P/P had the highest percentage of oversized tubers (Table 19b).
- COTX08045F-2R/R had the highest average number of tubers per plant (Table 19c).
- All of the entries were late in maturity, except for COTX08365F-4R/R (Table 19c).

Comments on entries:

- COTX08365F-3P/P Long Purple nice skin color, somewhat thick, better than-1P/P, some knobs, white streaks in flesh, white streaks, nice
- COTX08044F-1R/R Long Red good skin finish, too thick, nice internal color, red on one end
- COTX08365F-4R/R Long Red too light flesh, nice skin and size, nice color and shape, poor internal color, nice shape,
- COTX08365F-1P/P Long Purple nice shape and skin finish knobs, 1 if high tuber count, nice, best internal color
- COTX08045F-2R/R Long Red good skin finish, too thick, knobs
- Banana Long White
- Purple Peruvian Long Purple ok, better, points

Summary:

COTX08365F-1P/P was the outstanding entry based on all factors.

Dalhart
Table 19a.

Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 7 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Total Yield Cwt/A	Total Marketable Yield	Too Long	Under 1 inch	Culls/ No.2	General Rating ¹ Grading	General Rating ² Grading
COTX08365F-3P/P	TXFG	442.0	65.3	347.7	3.3	25.7	1.2	3.3
COTX08044F-1R/R	TXFG	287.3	105.6	137.9	8.5	35.3	3.0	3.0
COTX08365F-4R/R	TXFG	268.8	131.9	121.3	10.8	4.8	3.0	4.0
COTX08365F-1P/P	TXFG	201.6	139.6	31.9	22.8	7.3	1.2	4.0
COTX08045F-2R/R	TXFG	168.8	52.3	94.6	2.3	19.7	3.0	3.5
Banana	TXFG	99.6	33.0	42.9	7.5	16.2	3.0	2.3
Purple Peruvian	TXFG	78.4	58.1	13.5	6.4	0.4	3.0	3.8
Average		220.9	83.7	112.8	8.8	15.6	2.5	3.4
L.S.D. (.05)		34.9	41.2	37.7	4.9	17.3	0.1	1.0

¹ 1=Keep to 3= drop

² 1=very poor to 5= excellent

Dalhart
Table 19b.

Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 7 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Percent By Weight				Tuber Type	Skin Type
		Marketable Yield	Too Long	Under 1 inch	Culls/ No. 2		
COTX08365F-3P/P	TXFG	14.8	78.7	0.7	5.8	Long	Purple
COTX08044F-1R/R	TXFG	37.5	47.4	3.0	12.1	Long	Red
COTX08365F-4R/R	TXFG	48.3	45.9	4.0	1.8	Long	Red
COTX08365F-1P/P	TXFG	67.9	16.6	11.6	3.9	Long	Purple
COTX08045F-2R/R	TXFG	31.9	53.4	1.6	13.1	Long	Red
Banana	TXFG	35.3	41.8	7.2	15.7	Long	White
Purple Peruvian	TXFG	73.5	17.3	8.6	0.7	Long	Purple
Average		44.2	43.0	5.2	7.6		
L.S.D. (.05)		11.7	14.9	2.6	10.5		

Dalhart
Table 19c.

Average number of tubers per plant, average tuber weight, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 7 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
					Plant Type ¹	Vigor ²	Maturity ³	Vine Size ⁴	
COTX08365F-3P/P	TXFG	8.2	3.5	100	1.5	4.3	3.8	4.4	25
COTX08044F-1R/R	TXFG	9.2	3.3	63	1.5	3.2	4.8	3.4	4
COTX08365F-4R/R	TXFG	7.8	2.9	79	2.4	3.1	3.1	3.6	43
COTX08365F-1P/P	TXFG	7.4	1.8	100	1.5	4.0	5.0	4.2	0
COTX08045F-2R/R	TXFG	10.2	3.4	38	1.8	2.3	4.4	2.7	6
Banana	TXFG	4.3	1.5	100	1.9	4.1	3.9	4.0	25
Purple Peruvian	TXFG	3.5	1.5	100	1.5	4.4	4.2	4.3	9
Average		7.2	2.5	83	1.7	3.6	4.1	3.8	16
L.S.D. (.05)		3.8	0.3	15	0.5	0.7	0.8	0.8	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 19d.

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 7 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2014.

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
COTX08365F-3P/P	TXFG	3.3	3.8	1.0	4.0	5.0	5.0	5.0	5.0	4.5	5.0	0	0	0	0
COTX08044F-1R/R	TXFG	3.5	2.0	1.0	3.0	3.5	5.0	5.0	5.0	4.0	4.5	0	0	0	0
COTX08365F-4R/R	TXFG	2.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	4.8	5.0	0	0	0	0
COTX08365F-1P/P	TXFG	3.8	3.5	1.0	4.0	5.0	5.0	5.0	5.0	4.8	5.0	0	0	0	0
COTX08045F-2R/R	TXFG	2.8	3.3	1.0	4.3	3.8	5.0	5.0	5.0	4.8	4.0	0	0	0	0
Banana	TXFG	2.3	2.3	1.0	4.0	1.0	5.0	5.0	5.0	4.5	5.0	0	0	0	0
Purple Peruvian	TXFG	3.8	3.8	1.0	2.0	5.0	4.5	5.0	5.0	5.0	5.0	0	0	0	0
Average		3.0	3.2	1.0	3.8	4.0	4.9	5.0	5.0	4.6	4.8	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

Dalhart
Table 19e.

Notes and general rating for all reps of 7 entries in the Texas Advanced Fingerling Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
COTX08365F-3P/P	TXFG	, , , nice skin color, some what thick, better than -1P/P	some knobs, white streaks in flesh, white streaks, nice, nice	1.2, 1.2, 1.2, 1.2	3, 3, 4, 3
COTX08044F-1R/R	TXFG	, , good skin finish, too thick,	nice internal color, , , red on one end	3, 3, 3, 3	4, 4, 2, 2
COTX08365F-4R/R	TXFG	too light flesh, nice skin and size, , , nice shape and skin finish knobs, 1 if high tuber count,	nice color and shape, poor internal color, nice shape,	3, 3, 3, 3	4, 4, 4, 4
COTX08365F-1P/P	TXFG	, ,	nice, best internal color, ,	1.2, 1.2, 1.2, 1.2	4, 4, 4, 4
COTX08045F-2R/R	TXFG	, , good skin finish, too thick,	, , knobs,	3, 3, 3, 3	3, 4, 3, 4
Banana	TXFG	, , ,	, , ,	3, 3, 3, 3	2, 2, 2, 3
Purple Peruvian	TXFG	, , ,	ok, better, points,	3, 3, 3, 3	4, 4, 4, 3

2013 Fingerling Selections Trial, Dalhart

The trial consisted of eleven entries of which 4 (AORTX10119-1W, AORTX11084-1Ru, AORTX11234-1W, COTX11042-1W) will be advanced in the 2015 season (Table 20).

Dalhart
Table 20

Inventory weight of 4 entries to be advanced from the 2013 Fingerling
Selection Trial grown near Dalhart, Texas-2014.

Variety or Selection	Trial	Notes	Inventory Weight
AORTX10119-1W	13SEL	keep	7
AORTX11084-1Ru	13SEL	keep	2
AORTX11234-1W	13SEL	keep	7
COTX11042-1W	13SEL	keep	11

Appendix A. General notes on potato varieties or selections- 2014.

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

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

Strength: very nice, early, BOT- nice shape, long, smooth

Weakness: skinny, pointed heat sprouts, thin

Cutting Notes: pointed

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: chip

Strength:

Weakness: drop, too long, processor pointed, too oblong, poor shape, low yield, buff skin,

Cutting Notes: large tubers, russet skin poor shape, russet skin

Chip Notes: Drop-

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

Uses: fresh

Strength:

Weakness: small, poor internals, small potato+, some road map, nice shape and flesh, Light set, small, rough, light flesh, deep eyes,

Cutting Notes: small very dark yellow flesh

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

Strength:

Weakness: light skin, pointed blocky, drop, light skin, poor shape, drop

Cutting Notes: small white skin, small

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

Strength: nice shape, nice skin,

Weakness: oversized blocky, drop, drop, blocky to round

Cutting Notes: blocky, nice shape

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

Strength: nice shape yield

Weakness: skinny deep eyes, curved, pointed, ugly

Cutting Notes: nice, blocky very nice shape, BOT

A03921-2- Long Russet. Parentage (A96953-13 x A93005-10). Cross was made and selected in Aberdeen. Medium-early maturity. Medium-large vine size. Purple flower color.

Uses: dual

Strength: light net, nice shape light skin

Weakness: drop, poor yield, large

Cutting Notes: nice shape, white skin blocky

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

Uses: fresh

Strength: nice skin and flesh nice color,

Weakness: rough, deeper eyes stolon attachment, some feathering, light flesh rough, silver scurf, some feathering

Cutting Notes: BOT, nice smooth skin very nice skin and flesh

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

Uses: fresh

Strength: white skin, small potato, nice, BOT- yield heavy set smooth skin nice small

Weakness: light skin not red skin sticky stolon

Cutting Notes: pink skin, skin is yellow

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

Uses: dual

Strength: nice, nice shape, smooth, nice

Weakness: pointed

Cutting Notes: nice shape

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

Uses: dual

Strength: nice shape

Weakness: rough, drop, low yield some pointed

Cutting Notes: skinny very nice skin and shape

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

Uses: chip

Strength: nice size, very nice shape, smooth

Weakness: light set

Chip Notes: Drop

Cutting Notes: nice shape, hollow heart nice size, poor internals, hollow heart, drop

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

Uses: chip

Strength: yield, heavy set, smooth

Weakness: rough+ some poor shape

Chip Notes: Keep

Cutting Notes: nice shape nice size, poor internals, hollow heart, drop

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

Uses: dual

Strength: nice shape ok shape

Weakness: small, pointed

Cutting Notes: small, blocky

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

Uses: chip

Strength: nice size, nice, smooth+, nice shape

Weakness:

Chip Notes: BOT

Cutting Notes: nice shape small

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

Uses: fresh

Strength: BOT for P/Y nice size, good skin set, very nice skin smooth, nice flesh and skin

Weakness: some feathering, light flesh stem attachment small silver scurf, rough, deep eyes,
Cutting Notes: nice shape, skin color, and flesh color

Actrice-Oblong White. Parentage (DENISE x AGATA). Cross made in Holland.

Uses: fresh

Strength: BOT, BOT- nice shape, nice flesh, light set

Weakness:

Cutting Notes: Early yellow with baby skin finish, very nice flesh very yellow flesh

Agila-Oblong White. Parentage (?). Cross was made in Germany

Uses: fresh

Strength:

Weakness: poor shape, small, lenticels, poor shape

Cutting Notes: nice flesh blocky

Alegria-Oblong White. Parentage (?). Cross was made in Germany.

Uses: fresh

Strength: yield, nice, BOT-, nice shape nice flesh

Weakness: lenticels

Cutting Notes: raised eyes, hollow heart, poor internals

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

Uses: dual

Strength:

Weakness: curved, pointed, deep eyes blocky, drop, small, drop, some rough

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

Strength: BOT-, very nice shape

Weakness: pointed, drop, drop

Cutting Notes: blocky, nice shape

AORTX06670-1Ru-Oblong Russet. Parentage (ND7882b-7Russ x PALB03016-3). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength: heavy set

Weakness: pointed, small, lenticels pointed, drop++++,

Cutting Notes: small

AORTX06670-5Ru- Oblong Russet. Parentage (ND7882b-7Russ x PALB03016-3). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength:

Weakness: small, lenticels

Cutting Notes: small

AORTX09245-1Ru-. Oblong Russet Parentage (PA06NC13-1 x PA03NM10-4). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength:

Weakness: pointed, some pear shaped

Cutting Notes: skinny, small

AOTX05043-1Ru-Long Russet. Parentage (A99032-2TE x Summit Russet). Cross was in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength:

Weakness: small blocky, light set, drop+

Cutting Notes: small nice shape, hollow heart

AOTX95265-1Ru-Long Russet. Parentage (A89216-9 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength: Better rep

Weakness: pointed, light set, drop++, drop? Light set, skinny, rough, pointed

Cutting Notes: small, skinny

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

Strength:

Weakness: light set, pointed some rough, some pointed

Cutting Notes: blocky rough, some curved, hollow heart

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

Strength: fast bulk, BOT-, BOT large tubers

Weakness: light set, growth cracks knobs, ugly, oversized, rough drop++,

Cutting Notes: very large rough

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

Strength: BOT-, nice shape, fat tubers

Weakness: internal? Oblong and blocky

Cutting Notes: nice shape, blocky, small shape?

Atlantic-Round White. Parentage (Wauseon x Lenape). Cross was-made in Beltsville, Maryland, and selected in Maine. Released in 1976 by USDA-ARS, Florida, Virginia, New Jersey and Maine Agricultural Experiment Stations. Medium maturity. Medium vine size. Pale lavender flower color.

Uses: chip

Strength: buff skin, nice shape

Weakness: internals? Poor internals

Chip Notes: Drop-Keep

Cutting Notes: very nice shape

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: fresh

Strength: BOT- for R/Y yield+, heavy set, nice Flesh nice, more smalls nice skin and flesh

Weakness: variable size feathering+ silver scurf, large tubers

Cutting Notes: very nice skin and flesh variable shape, purple streaks in flesh

ATTX05175S-1R/Y-Round Red/Yellow. Parentage (A99331-2RY X COA99261-IRY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: BOT, very nice flesh, , nice small size uniform size, nice skin finish very nice flesh and shape, to Kelly, honorable mention, Kelly has it, , nice shape, size and flesh, light skin,

Weakness: deep eyes, low tuber #

Cutting Notes: nice, flesh, BOT

ATTX05186S-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: fresh

Strength: nice shape and flesh nice skin finish nice size heavy stem to Kelly

Weakness: drop unless very high tubers per plant not uniform, deep eyes drop, nipples, heat sprouts++sticky stolons heat sprouts, drop

Cutting Notes: nice size, nice flesh and skin

ATTX06246S-1R-Round Red. Parentage (Gogu Valley x Modoc) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas

Uses: fresh

Strength: nice skin, nice color

Weakness: not small, drop, drop++, poor shape, poor internals, drop poor skin finish some large tubers, some road map some larger tubers, 1 ZC? Growth cracks

Cutting Notes: size??Large tubers

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

Uses: fresh

Strength: nice shape, BOT- , large, early bulk++, nice flesh, BOT+

Weakness: some rough blocky, deep eyes

Cutting Notes: nice shape rough, pear shaped

ATTX07230-1Y/RE/Y-Oblong White Parentage (AO0286-3Y y x Modoc red 500) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: red splash,

Weakness: deep eyes, rough light flesh, internals? Drop,

Cutting Notes: red splash, light flesh, long sprouts

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: fresh

Strength: smooth skin, nice flesh good skin set

Weakness: drop, pointed some large tubers light skin and flesh

Cutting Notes: nice shin color, more purple streaks

ATTX98444S-16R/Y-Oblong Red/Yellow. Parentage (A83360-9R X T48YF). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: all BOT for small size B's or smaller, heavy set, smooth, BOT for small Potato, nice size nice shape

Weakness: small some faded skin,

Cutting Notes: very nice b size tubers, nice shape, BOT, nice small size

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

Strength: very nice, BOT, nice shape and skin

Weakness: virus, light set low yield

Cutting Notes: good skin set, nice color nice size for mini tubers

ATTX98462S-3R/Y-Oblong Red Parentage (ATD251-5RY X BO811-13RY). Cross was made in Aberdeen, tuberling produced in Texas and selected in Texas.

Uses: fresh

Strength: keep

Weakness: light skin, not small, heat sprouts, too oblong, drop, low yield, not small, move to RD/Y

Cutting Notes: too large, compare in R/Y trial

ATTX98514-1R/Y-Oblong Red Parentage (T51YF X A93456-6R). Cross was made in Aberdeen, tuberling produced in Texas and selected in Texas.

Uses: fresh

Strength: good skin set, nice shape, nice flesh nice dark yellow flesh

Weakness: drop for internals light skin Poor internals, hollow heart++, ATTX98514-1R/Y

Cutting Notes: very light flesh, flat drop, poor shape, light flesh

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

Uses: fresh

Strength: nice flesh, nice shape, BOT-, .yield+

Weakness: small, skinny small some curved, shape not as good

Cutting Notes: nice shape very small

ATX02263-1R/Y-Oblong Red. Parentage (Inca Gold x A92653-6R). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: yield++ nice flesh nice skin, small potato

Weakness: some red streaks in flesh rough small, drop, poor shape, light flesh White LaSoda deep eyes, red eyes, deep eyes,

Cutting Notes: BOT, Klondyke like shape, nice skin light flesh

ATX05142-2Ru-Oblong Russet. Parentage (Rio Grande Russet x A97214-4). Cross was made in Aberdeen and selected in Texas. Early maturity. Large vine size. White flower color.

Uses: fresh

Strength: heavy set, smooth nice shape

Weakness: some pointed too blocky?

Cutting Notes: pointed skinny, small

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

Uses: fresh

Strength: to Kelly, very white flesh, better rep, CM to Kelly, nice size, shape, and color nice shape and size

Weakness: yield-too pale skin, drop

Cutting Notes: nice skin and size lager size

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

Uses: fresh

Strength: nice small potato size, BOT, nice size for small potato, very nice small shape, BOT

Weakness:

Cutting Notes: nice flesh, size and shape, small

ATX06254S-2R-Round Red, Parentage (A99331-2RY x Durango Red). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: nice skin finish, nice skin color and shape nice color, to Kelly, very white flesh, CM to Kelly

Weakness: light skin, ok size, drop deep eyes, not round

Cutting Notes: nice size and skin

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

Uses: fresh

Strength: smooth skin finish, nice color heavy set lots of small tubers, dark skin color, very round

Weakness: not uniform profile, check tuber #, average eye depth (drop Kelly), variable size oversized

Cutting Notes: nice flesh and shape

ATX07175S-2R/Y-Round Red/Yellow. Parentage (US 147-96 R/Y x Modoc). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strength: nice skin color, nice flesh

Weakness: poor shape, not very round, poor netting, drop,

Cutting Notes: nice skin

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

Uses: fresh

Strength: BOT-, Keep, good shape, nice flesh blocky +

Weakness: small, light set, light set

Cutting Notes: blocky, nice shape

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

Uses: fresh

Strength: heavy set BOT++,

Weakness: some oversized

Cutting Notes: very nice shape, BOT

Baltic Cream-Round White. Parentage (?). Produced by Norika America.

Uses: fresh

Strength: very nice, nice size

Weakness: small+, heat sprouts low yield road map

Cutting Notes: very small, variable size

Banana-Long White. Parentage (Grown in British Columbia for over 90 years. Research indicates that the variety might have been introduced to early settlers and natives by Russian fur traders. The exact origin, parental lines or breeding techniques used in its development are not known.)

Uses: fresh

Strength: lots of marketable nice flesh

Weakness: more culls some large

Cutting Notes: very long, curved, yellow flesh nice skin

Bettina-Oblong White. Parentage (?). Cross made in Germany. Medium maturity. Medium vine size. White flower color

Uses: fresh

Strength: nice flesh

Weakness: lenticels

Cutting Notes: full season storing yellow, small, nice flesh

BO 15 AL-Oblong White. Parentage (?).

Uses: fresh

Strength: BOT-, small potato, all B's,

Weakness: light set small, heat sprouts hollow heart

Cutting Notes: nice shape and skin, hollow heart

BO 15 V-Oblong Red. Parentage (?).

Uses: fresh

Strength:

Weakness: poor skin, light skin+, rough+,

Cutting Notes: rough, raised eyes, knobs, light red, skin

BO14AG-Oblong White. Parentage (?).

Uses: fresh

Strength: heavy set

Weakness: heat sprouts, poor shape, stem attachments

Cutting Notes: poor shape, small

BTX1544-2W/Y-Oblong White/Yellow. Parentage (BO811-13 x Yukon Gold). Cross was made in Beltsville, Maryland and selected in Texas. Medium maturity. Medium vine size.

Uses: fresh

Strength: nice flesh blocky, nice shape

Weakness: light flesh some rough, 10% ZC? Buff skin, low set

Cutting Notes: nice shape and flesh blocky, nice shape, more russet skin

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

Uses: fresh

Strength: nice flesh, good skin set

Weakness: variable shape, lots of B's, deeper eyes, road map, small, poor shape, light flesh

Cutting Notes: nice flesh color, flat shape

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

Uses: fresh

Strength: nice shape and skin nice, BOT, BOT++, uniform, yield+, uniform, very nice,

Weakness: feathering internal??

Cutting Notes: some feathering, red streaks in flesh

Chieftan-Round Red. Parentage (la1027-18 x La1354). Cross was made and selected at Iowa State University.

Uses: fresh

Strength: nice shape

Weakness: deep eyes, light skin some IBS, rough, poor internals light skin color

Cutting Notes: small, light 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

Strength:

Weakness: large tubers, rough, lenticels light set

Chip Notes: Drop-Keep

Cutting Notes: nice shape and skin

CIT #1-Oblong White. Parentage (?). Late maturity.

Uses: chip

Strength: large tubers, yield+, nice shape

Weakness:

Cutting Notes: nice shape, blocky

CIT #2-Round Red. Parentage (?).Medium maturity.

Uses: fresh

Strength: nice yellow flesh

Weakness: light skin, poor internals,

Cutting Notes: nice shape, faded skin color

CIT #3-Oblong Russet. Parentage (?). Medium maturity.

Uses: fresh

Strength:

Weakness: skinny, small

Cutting Notes: blocky, nice shape

CIT #4-Oblong Red. Parentage (?). Medium maturity.

Uses: fresh

Strength: nice flesh

Weakness: very light skin, oblong

Cutting Notes: poor shape

CIT #5-Round White. Parentage (?).Very late maturity.

Uses: fresh

Strength: yield+, heavy set nice shape

Weakness: lenticels road map poor internals

Cutting Notes: nice shape, white flesh, long sprouts

CIT #6-Oblong White. Parentage (?).Late maturity.

Uses: fresh

Strength: nice shape

Weakness: light set++, large tubers, low yield++, hollow heart

Cutting Notes: long sprouts

CIT #7-Long White. Parentage (?).Medium maturity.

Uses: chip

Strength: blocky

Weakness: too long, rough, poor shape, low yield

Cutting Notes: blocky, long sprouts, 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

Strength: BOT, very smooth, nice size nice, buff skin, nice shape, nice size, yield+

Weakness:

Chip Notes: Nice,

Cutting Notes: nice shape

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

Strength:

Weakness: small, skinny, pointed, drop, curved

Cutting Notes: small, nice shape

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: fresh

Strength: nice flesh, good skin set dark yellow flesh

Weakness: poor shape small, light skin light set growth cracks++

Cutting Notes: nice shape, color and 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: fresh

Strength: red eyes nice flesh, uniform, nice size, nice shape

Weakness: sticky stolons road map, lenticels, internal? Poor internals

Cutting Notes: nice shape nice flesh and skin

CO05028-11P/RWP-Oblong Purple. Parentage (AC99329-4R/Y x CO97227-2P/PW). Cross was made and selected in Colorado. Medium maturity. Large vine size. Blue-Purple flower color.

Uses: fresh

Strength: violet skin color red white flesh

Weakness: poor flesh color poor skin, rough, road map

Cutting Notes: mixed flesh color variable flesh color

CO05028-4P/PY-Oblong Purple. Parentage (AC99329-4R/Y x CO97227-2P/PW). Cross was made and selected in Colorado. Medium maturity. Medium large vine size. Purple flower color.

Uses: fresh

Strength: heavy set violet skin color, purple white flesh

Weakness: variable flesh color, yield- poor flesh, some road map rough road map

Cutting Notes: nice shape some mixed flesh color

CO05035-1PW/Y-Oblong Purple-White. Parentage (Masquerade x US147-96). Cross was made and selected in Colorado. Medium maturity. Large vine size. Red-purple flower color.

Uses: fresh

Strength: pinto heavy set nice flesh

Weakness: drop, too small, too oblong, small, poor shape+ pointed drop, poor shape,

Cutting Notes: nice flesh and skin pinto

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: fresh

Strength: fingerling, nice flesh

Weakness: silver scurf not much curve, slight purple streaks in flesh

Cutting Notes: light flesh and skin oblong to long shape, nice skin, shape??

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

Uses: fresh

Strength:

Weakness: Russet not yellow flesh blocky, russet+, small

Cutting Notes: nice shape, not yellow flesh look like a russet

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

Uses: dual

Strength: nice shape, smooth

Weakness: rough, ugly, pointed, blocky drop heat sprouts, drop

Cutting Notes: skinny nice size

CO05079-4P/PW-Oblong Purple. Parentage (CO97216-3P/PW x CO97227-2P/PW). Cross was made and selected in Colorado. Medium maturity. Medium size. White flower color.

Uses: fresh

Strength: nice smooth skin+, solid flesh color, , good skin set heavy set nice skin, solid flesh color, smooth skin, nice shape

Weakness: poor shape blocky

Cutting Notes: variable flesh color no white in the flesh

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

Uses: dual

Strength:

Weakness: drop, poor shape, drop++, curved, pointed, too long,

Cutting Notes: skinny nice shape, 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

Strength: small potato, uniform, nice skin, nice shape, small, smooth nice small size, small, nice skin

Weakness: light set

Cutting Notes: nice shape and color nice size

CO06057-3RU-Oblong Russet. Parentage (CO98009-3RU x Premier Russet). Cross was made and selected in Colorado. Medium maturity. Medium-large vine size. White flower color.

Uses: dual

Strength:

Weakness: small, drop, small, drop, low yield, skinny, pointed

Cutting Notes: small, blocky

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

Uses: fresh

Strength: good skin set nice shape early bulk

Weakness: light set, drop some hollow heart, light skin and flesh

Cutting Notes: nice flesh, light skin, hollow heart

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

Uses: fresh

Strength:

Weakness: too oblong? Small, low yield, drop, small, light skin, shape? Internals?? Poor shape, sprouts ++

COTX02293-4R-Oblong Red. Parentage (CO94065-2R x ND3574-5R). Cross was made in Colorado

and selected in Texas. Medium early maturity. Medium vine size. Lavender flower color.

Uses: fresh

Strength: nice flesh small, nice skin set, smooth, nice shape

Weakness: light skin low yield

Cutting Notes: nice flesh, small nice skin color, small, sprouts+

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

Uses: fresh

Strength:

Weakness: uneven russeting, small, shape? Patchy russeting

Cutting Notes: mini tubers

COTX04015-3AWRE/Y –Oblong White/Yellow. Parentage (ATC98495-1W/Y x TX1674-1W/Y).

Cross was made in Colorado and selected in Texas.

Uses:

Strength: red eyes, nice flesh

Weakness: poor shape, nipples

Cutting Notes: very small

COTX04050S-1P/P-Oblong Purple/Purple. Parentage (CO97215-2P/P x CO97306-2P/P). Cross was made in Colorado and selected in Texas

Uses: fresh

Strength: nice shape and size nice skin, dark flesh nice flesh

Weakness: nipples some heat sprouts, road map too oblong? Poor skin color, dull black

Cutting Notes: very dark flesh, nice shape

COTX04193S-2R/Y-Oblong Red/Yellow. Parentage (ATC98515-1R/Y x ND3574-5R). Cross was made in Colorado and selected in Texas. Medium-early maturity. Small vine size.

Uses: fresh

Strength: very nice flesh, nice flesh, Kelly has it, BOT nice round shape, shallow eyes, 1 rating if

high tuber count +,

Weakness: low yield

Cutting Notes: nice flesh nice shape

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

Uses: fresh

Strength: keep for yellow flesh, nice flesh, nice shape

Weakness: poor net light flesh, drop light net pointed, small

Cutting Notes: nice flesh, skinny very light yellow flesh

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

Uses: fresh

Strength: BOT, uniform size B's, nice flesh, small potato candidate, smooth

Weakness: not red eyes, small

Cutting Notes: red eyes nice flesh, long sprouts

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

Uses: fresh

Strength: nice skin color good skin set heavy set, yield+, nice shape,

Weakness: feathering small+

Cutting Notes: nice skin color and shape, sprouts++nice shape, very light yellow flesh

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

Uses: fresh

Strength: uniform, smooth skin, nice shape, nice shape, smooth,

Weakness: light flesh light set small, drop,

Cutting Notes: nice shape, light flesh, long sprouts

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

Uses: fresh

Strength: yield+, BOT+, nice red flesh good skin finish nice internal color,

Weakness: red on one end too thick

Cutting Notes: very nice red flesh very nice flesh, shape, and skin, long sprouts

COTX08045F-2R/R Long Red-. Parentage (FF x KP x POR01PG22-1). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: good skin finish

Weakness: too thick, knobs

Cutting Notes: nice skin, shape, and flesh

COTX08214-2Ru-Oblong Russet. Parentage (AC96052-1RU X Blazer Russet) Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: BOT-large tubers,

Weakness: poor shape, rough, drop+, light russet feathering, light net,

Cutting Notes: some pointed blocky, nice shape

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

Uses: fresh

Strength: BOT-nice shape nice shape

Weakness: 1 ZC flat, skinny, drop better shape, drop+, small,

Cutting Notes: very nice shape

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

Uses: fresh

Strength: keep nice shape

Weakness: small blocky, large tubers,

Cutting Notes: small, blocky pear shaped, skinny

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

Uses: fresh

Strength: nice smooth skin shape, smooth skin, BOT, very nice size and flesh 1 if high tuber count, nice, best internal color nice shape and skin finish

Weakness: yield-knobs

Cutting Notes: nice shape nice flesh, deep eyes

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

Uses: fresh

Strength: nice: somewhat thick, better than-1P/P nice skin color smooth skin, nice shape

Weakness: some knobs, white streaks in flesh, low yield too big, poor internals, too large++,

Cutting Notes: nice skin, shape, and flesh large tubers, nice flesh, smooth

COTX08365F-4R/R-Long Red/Red. Parentage (POR01PG16-1 x CO00405-1R) Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice skin and size, , , nice color and shape, nice shape, nice skin, smooth+, BOT-, very nice size,

Weakness: poor internal color too light flesh

Cutting Notes: light red flesh, nice shape

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

Uses: fresh

Strength: yellow flesh, BOT, nice shape and flesh very nice flesh, BOT-, red eyes, BOT+,, very nice flesh++,

Weakness:

Cutting Notes: very nice flesh, red eyes

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

Uses: chip

Strength: nice yellow flesh+,

Weakness: red eyes, deep eyes

Chip Notes: Drop

Cutting Notes: red eyes, yellow flesh very nice yellow flesh

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

Uses: fresh

Strength: nice skin

Weakness: small, blocky

Cutting Notes: small, blocky

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

Uses: fresh

Strength: BOT- nice shape,

Weakness: late small light net, skinny, too small

Cutting Notes: nice shape, some flat

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

Uses: fresh

Strength: BOT- , keep, nice shape, smooth, nice net keep nice white flesh,

Weakness: late light net, small, skinny, pointed light set

Cutting Notes: flat very nice shape, some pointed

COTX09089-1Ru-Oblong White Parentage (94-10800-1 x COTX03308-3RU) Cross was made in Colorado and selected in Texas.

Uses: chip

Strength:

Weakness: round russet, growth cracks, drop severe hollow heart poor internals, drop for hollow heart

Chip Notes: Drop

Cutting Notes: round russet skin, nice shape

COTX10007-1Ru-Oblong Russet. Parentage (A97066-42LB x Alpine Russet). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: too small and round

Cutting Notes:

COTX10007-2Ru-Round Russet. Parentage (A97066-42LB x Alpine Russet). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: smooth keep, yield++, heavy set nice shape

Weakness: round flat, blocky, too round, drop poor internals small,

Cutting Notes: blocky, nice shape

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

Uses:

Strength: nice flesh

Weakness: some pointed, large tubers

Cutting Notes: skinny

COTX10013-3Rure-Long Russet. Parentage (A00286-3Y x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses:

Strength: red splash, white flesh

Weakness: blocky, red eyes, light yellow flesh

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

Uses: chip

Strength: nice shape, BOT-,

Weakness:

Chip Notes: Keep-

Cutting Notes: large tubers, hollow heart

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

Uses: fresh

Strength: high set, uniform profile, round, some netting or russeting, very nice BOT, CM to Kelly, nice shape and size,

Weakness: chip?

Cutting Notes: white flesh, nice size buff skin, nice size

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

Uses: chip

Strength: very nice shape, BOT-

Weakness:

Chip Notes: Keep-

Cutting Notes: nice shape

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

Uses:

Strength: smooth,

Weakness:

Chip Notes: Keep-

Cutting Notes: shape??

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

Uses:

Strength: nice shape

Weakness: small

Chip Notes: Keep-

Cutting Notes: long dormancy

COTX10076-8W-. Round White Parentage (CO03243-3W x CO02024-9W). Cross was made in Colorado and selected in Texas.

Uses:

Strength: smooth

Weakness:

Chip Notes: Keep

Cutting Notes: small

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

Uses:

Strength: smooth

Weakness: hollow heart

Chip Notes: Keep

Cutting Notes: nice shape

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

Uses:

Strength: nice shape

Weakness: oversized

Cutting Notes: nice shape,

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

Uses:

Strength: nice shape

Weakness: deep eyes

Cutting Notes: nice shape, blocky

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

Uses:

Strength:

Weakness: light skin, blocky

Cutting Notes: small, blocky

COTX10080-8Ru-Long Russet. Parentage (CO03364-5RU x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses:

Strength:

Weakness: oversized, growth cracks, drop

Cutting Notes: fat tubers, blocky, hollow heart++

COTX10084-7Ru-Long Russet. Parentage (CO03364-5RU x Alpine Russet). Cross was made in

Colorado and selected in Texas.

Uses:

Strength:

Weakness: light net, too round, blocky

Cutting Notes: long, blocky, flat

COTX10092-1Ru-Oblong Russet. Parentage (CO03371-4RU x CO99053-3RU). Cross was made in Colorado and selected in Texas.

Uses:

Strength: nice shape,

Weakness: lots of B's small, too round, blocky

Cutting Notes: small

COTX10092-5Ru-Long Russet. Parentage (CO03371-4RU x CO99053-3RU). Cross was made in Colorado and selected in Texas.

Uses:

Strength: nice shape

Weakness: too round, blocky

Cutting Notes: fat tubers, blocky, hollow heart++

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

Uses: fresh

Strength: nice shape, smooth, nice flesh+

Weakness: some rough

Cutting Notes: poor shape, nice flesh, long sprouts

COTX10110-1Ru-Oblong Russet. Parentage (Blazer Russet x AC02708-1RU). Cross was made in Colorado and selected in Texas.

Uses:

Strength:

Weakness: blocky

Cutting Notes: blocky, fat tubers

COTX10111-10Ru-Long Russet. Parentage (Blazer Russet x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses:

Strength:

Weakness: small,

Cutting Notes: very small

COTX10111-1Ru-Long Russet. Parentage (Blazer Russet x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses:

Strength:

Weakness: small, blocky

Cutting Notes: blocky, fat tubers

COTX10111-2Ru-Long Russet. Parentage (Blazer Russet x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses:

Strength:

Weakness: drop, too small, light set

Cutting Notes: small, skinny

COTX10111-4Ru-Long Russet. Parentage (Blazer Russet x CO98067-7RU). Cross was made in Colorado and selected in Texas.

Uses:

Strength:

Weakness: flat, pointed, small+, too small,

Cutting Notes: small, skinny

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

Uses: fresh

Strength: nice shape very nicety-, keep

Weakness: blocky light set

Cutting Notes: nice fat tubers, hollow heart blocky, nice shape

COTX10114-1Ru-Oblong White Parentage (Classic Russet x CO99053-3RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: early, nice flesh, keep

Weakness: poor shape, drop, large too long, pointed, skinny, curved, drop++

Cutting Notes: skinny, poor shape, curved, drop: very long, curved, large tubers

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

Uses:

Strength: nice shape

Weakness: small,

Cutting Notes: small, blocky

COTX10117-1Ru-Long Russet. Parentage (Silverton Russet x CO99053-3RU). Cross was made in Colorado and selected in Texas.

Uses:

Strength:

Weakness: small, 3,

Cutting Notes: very small

COTX10118-7P/Y-Oblong Purple. Parentage (07S019 x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses:

Strength: nice flesh

Weakness: shape??

Cutting Notes: some feathering, nice flesh

COTX10118S-3WRE/Y-Round White. Parentage (07S019 x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses:

Strength:

Weakness: deep eyes, poor shape drop, small,

Cutting Notes: nice size, red eyes

COTX10138-14P/Y-Oblong Purple. Parentage (AC99329-7PW/Y x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses:

Strength: nice shape and skin

Weakness: light set+

Cutting Notes: nice skin, light flesh

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

Uses:

Strength: nice shape

Weakness: small, 10% ZC? Faded purple skin,

Cutting Notes: nice pinto

COTX10138-17P/Y-Oblong Purple. Parentage (AC99329-7PW/Y x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses:

Strength: nice flesh

Weakness: faded skin color

Cutting Notes: nice skin and flesh

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

Uses:

Strength: nice shape, very nice flesh

Weakness: some silver scurf

Cutting Notes: smooth skin, nice flesh

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

Uses:

Strength:

Weakness: silver scurf, sticky stolon

Cutting Notes: larger tubers, nice flesh

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

Uses:

Strength: nice shape

Weakness: faded purple skin, poor internals

Cutting Notes: purple white pinto

COTX10138S-7WPE/Y-Round White. Parentage (AC99329-7PW/Y x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: yield+, nice size and shape, all B's, BOT++, TC, CM to Kelly to Kelly purple eyes, uniform, round, nice skin finish, specialty

Weakness: light flesh discard purple eyes some internal brownspot

Cutting Notes: nice size and flesh

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

Colorado and selected in Texas.

Uses:

Strength: smooth,

Weakness: blocky

Cutting Notes: some pointed

COTX10141-12Ru-. Long Russet Parentage (AC00395-2RU x CO03177-2RU). Cross was made in Colorado and selected in Texas.

Uses:

Strength: no hollow heart on large tubers, BOT- nice shape

Weakness: flat

Cutting Notes: large tubers

COTX10141-13Ru-Long Russet Parentage (AC00395-2RU x CO03177-2RU). Cross was made in Colorado and selected in Texas.

Uses:

Strength: fat tubers

Weakness: blocky oversized, pear shaped

Cutting Notes: skinny

COTX10141-15Ru-Long White. Parentage (AC00395-2RU x CO03177-2RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice skin finish blocky, nice smooth, BOT-, keep

Weakness: small internals? Blocky, poor net, drop,

Cutting Notes: blocky

COTX10156-5Ru-Oblong Russet Parentage (AC03300-1RU x CO03276-4RU). Cross was made in Colorado and selected in Texas.

Uses:

Strength: smooth

Weakness:

Cutting Notes: small too small, small,

COTX10171-2Ru-Oblong Russet Parentage (AO00057-2 x Blazer Russet). Cross was made in Colorado and selected in Texas.

Uses:

Strength:

Weakness: too round, blocky, oblong to round, light set

Cutting Notes: round to oblong

COTX10179-2Ru-Long Russet. Parentage (CO98067-7RU x CO03202-1RU) Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: pointed skinny

Cutting Notes: skinny flat

COTX10226S-1WRE/Y-Round White Parentage (CO04117-5PW/Y x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses:

Strength: uniform nice small size and flesh, red splash

Weakness: lot of variability in red splash, some poor netting, deep eyes, poor shape, drop

Cutting Notes: red slash, nice flesh

COTX10231-1Ru-. Long Russet Parentage (CO04204-7RU x A01010-1). Cross was made in Colorado and selected in Texas.

Uses:

Strength:

Weakness: poor shape, small

Cutting Notes: nice shape

Electra-Round White. Parentage (C1992/42 x Picasso). Cross made in Ireland

Uses: fresh

Strength: heavy set, nice flesh and shape, smooth skin

Weakness:

Cutting Notes: Early yellow, nice shape, flesh, and skin

Gasora-Oblong Red. Parentage (?).

Uses: fresh

Strength: nice flesh, lots of B's, nice size

Weakness: poor skin color, light skin, small

Cutting Notes: smooth, small, pink skin

Granola-Round White. Parentage (3333 60 x 267 04). Cross made in Germany. Medium-late maturity.

Small vine size. Red violet flower color.

Uses: fresh

Strength:

Weakness: small, low yield, road map++,

Cutting Notes: nice shape and skin, smooth, small

Lanorma-Oblong White. Parentage (BYDAND X CAESAR). Cross made by DEN HARTIGH BV.

Medium maturity. White flower color.

Uses: fresh

Strength: BOT, BOT++, very nice

Weakness:

Cutting Notes: mid-season yellow with baby skin finish, very nice, BOT

Merlin-Oblong White. Parentage (Cara x 93/2). Cross made by Caithness Potato Breeders Ltd. Early maturity. Red violet flower color.

Uses: fresh

Strength:

Weakness: stem attachment, deep eyes, rough

Cutting Notes: white flesh with pink blush, nice shape, red pink eyes

Modoc-Round Red. Parentage (ND1196-2R x ND2225-1R). Cross was made in North Dakota and selected in Oregon. Early maturity.

Uses: fresh

Strength: nice skin, uniform, BOT-, nice shape nice red color, BOT, heavy set, nice skin and flesh, nice

Weakness: very oblong, light set

Cutting Notes: some pressure cracks shape??

NDA050237B-1R-Oval Red. Parentage (ND028678-1RY x ND028770B-4R). Cross was made in North Dakota and selected in Idaho. Medium late maturity. Large vine size. Dark red purple flower color.

Uses: fresh

Strength: very nice skin and flesh, BOT-, very dark skin

Weakness: small

Cutting Notes: nice shape and skin smooth

NDA081451CB-1CY-Round Yellow. Parentage (Dakota Diamond x ND 039173CAB-22). Cross was made in North Dakota and selected in Idaho. Medium early maturity. Medium vine size. White flower color.

Uses: fresh

Strength: nice shape nice size, small potato, uniform size, very light russet, some buff, nice flesh

Weakness: small, sticky stolons++,

Cutting Notes: nice shape and flesh, small

NDTX050070-1R-Round Red. Parentage (ND 8375b-6R x ND 8347CB-12R). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice skin color, BOT, nice shape heavy set, good skin set

Weakness: some feathering

Cutting Notes: nice flesh nice skin color and shape, stem attachments, sprouts+

NDTX050184S-1R/Y-Oblong Red Parentage (ND 028577-6RY x ND 8555-8R). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: smooth skin finish, nice color, check tuber count nice flesh

Weakness: light set light skin

Cutting Notes: very light flesh

NDTX059759-3RY/YPinto-Oblong Pinto/Yellow. Parentage (ATND 99331-2 Pinto x ND 7834-2P). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: very nice, BOT+ BOT, nice flesh nice dark red skin

Weakness: flat, some purple streaks in flesh

Cutting Notes: very nice red color, some red streaks in flesh

NDTX059775-1W/Y-Oblong White. Parentage (R 89063-84 x Bison). Cross made in North Dakota and selected in Texas.

Uses: fresh

Strength: BOT, smooth, smalls+, small potato candidate, smooth

Weakness: pink eyes light flesh, small odd skin color

Cutting Notes: poor shape, light flesh, small rough

NDTX059886S-1W/Y-Round White Parentage (NDA5507-3 X TXA1655-1DY). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: nice round shape, shallow eyes, 1 rating if high tuber count, BOT, smooth, nice shape and flesh

Weakness:

NDTX060700C-1W-Round White. Parentage (NDTX 7560C-4 x NDTX 7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: heavy set, uniform small potato candidate

Weakness: too small++, light set too small

Chip Notes: BOT+

Cutting Notes: small, variable shape

NDTX071109C-1W-Round White. Parentage (ND 7226C-17 x ND 860-2) Cross was made in North Dakota and selected in Texas. Late maturity. Large vine size.

Uses: chip

Strength: nice size and shape, heavy set, uniform

Weakness: light set large tubers,

Chip Notes: Keep-,

Cutting Notes: nice size uniform shape

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: fresh

Strength: Y nice shape and flesh

Weakness: small, patchy russeting, uneven russeting, small, light set, poor internals, some rough

Cutting Notes: small nice flesh

NDTX071258BS-1R-pound Red. Parentage (ND 039035B-9R x ND 4659-5R) Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: round good skin color, 1 rating if high tuber count, nice size to Kelly, nice shape,

Weakness: light skin light set, low yield

Cutting Notes: nice size??

NDTX081451CBS-1Y/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: fresh

Strength: Kelly has it,

Weakness: move to WH/Y, too big?? Some larger tubers

Cutting Notes: very nice flesh and shape

NDTX081572B-1R-Round Red Parentage (ND 4659-5R X ND 028940B-102R). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: nice small shape, smooth small potato candidate

Weakness: light set light skin, low yield

Cutting Notes: very light yellow flesh nice skin set and shape, sprouts+

NDTX081644CAB-2W-Round White. Parentage (ND 8331Cb-3 X ND 028804CAb-5) Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice flesh

Weakness: too small, internals?

Chip Notes: BOT

Cutting Notes: very small

NDTX081648CB-13W-Round White. Parentage (ND 8456-1 xND7377CB-1) Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice size and shape, nice flesh nice shape

Weakness: light set

Chip Notes: Keep-

Cutting Notes: small variable size

NDTX081648CB-1W-Round White Parentage (ND 8456-1 xND7377CB-1). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: smooth

Weakness:

Chip Notes: Keep

Cutting Notes: Zebra Chip

NDTX081648CB-4W-. Round White Parentage (ND 8456-1 xND7377CB-1). Cross was made in North Dakota and selected in Texas.

Uses:

Strength:

Weakness: hollow heart,

Chip Notes: Keep-

Cutting Notes: Zebra Chip

NDTX091886-3P/P-Round Purple Parentage (COND 04082-8RR X ND 7519-1) Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice shape and smooth skin nice skin finish dark flesh, nice flesh

Weakness: road map, some white in pith low yield

Cutting Notes: very dark flesh, nice shape some road map

NDTX091908AB-2W-Round White. Parentage (Ebt 6-21-5 X ND 7519-1) Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: BOT++, very nice

Weakness: small, too oblong, browncenter

Chip Notes: BOT-, Nice

Cutting Notes: nice shape uniform 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

Strength: nice skin finish good skin set heavy set

Weakness: some pointing, poor shape+, too oblong, shape? More oblong

Cutting Notes: light skin poor shape, nice skin set, sprouts+

NDTX092238CS-1P/W-Round Purple Parentage (ND 049326C-2P x ND 8555-8R) Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice skin color, very nice skin, very white flesh nice bright purple color very nice skin and shape

Weakness: some feathering, some larger tubers nipples average for shape

Cutting Notes: nice shape and size

NDTX092238CS-3P/W-Round Purple Parentage (ND 049326C-2P x ND 8555-8R) Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice shape and skin, nice size nice shape

Weakness: move to red trial? Larger tubers, too big, feathering white flesh poor skin finish, knobs, check tuber count

Cutting Notes: smooth nice skin, shape, and size

NDTX092238CS-4P/W-Round Purple Parentage (ND 049326C-2P x ND 8555-8R) Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: very nice skin nice color nice skin

Weakness: some feathering white flesh stolon attachment poor shape, drop

Cutting Notes: nice skin and shape smooth

NDTX102461AB-4W-Oblong White Parentage (Ivory Crisp x ND 060421Ab-1). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: smooth skin, nice shape

Weakness:

Chip Notes: BOT-

Cutting Notes: nice shape

NDTX102462C-2W-Oblong White Parentage (Ivory Crisp x ND 060831C-1). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: large tubers, nice shape, nice size

Weakness:

Chip Notes: Drop

Cutting Notes: nice shape

NDTX102462C-6W-Round White Parentage (Ivory Crisp x ND 060831C-1) Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice smooth, BOT yield+, heavy set, smooth,

Weakness:

Chip Notes: Keep

Cutting Notes: very long sprouts, nice shape

NDTX102514ABC-5W-Round White Parentage (Etb 6-5-5 x ND 060831C-6) Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: uniform, heavy set, BOT

Weakness: too oblong, small, light set,

Chip Notes: Nice

Cutting Notes: small, ok shape

NDTX102557-1W-Oblong White Parentage (ND 860-2 x King Harry) Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: heavy set nice shape smooth, better shape

Weakness: small light set shape?

Chip Notes: Drop

Cutting Notes: small poor shape, flat

NDTX102639CS-1W-Round White Parentage (ND7550C-1 x ND060831C-6). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: round, heavy set, nice shape, BOT- nice tuber set

Weakness: average skin finish,

Cutting Notes: nice size

NDTX102640Cb-1W-Round White Parentage (ND7550c-1 x ND071006B-2). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: heavy set, uniform

Weakness:

Chip Notes: Keep

Cutting Notes: small

NDTX102643CAB-1W-Round White Parentage (ND7799c-1 x ND060380Ab-5). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: smooth

Weakness: poor internals

Chip Notes: No Data

Cutting Notes: nice flesh

NDTX102702C-1W-Oblong White Parentage (ND049326C-2P x ND059978C-1). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: large tubers

Weakness:

Chip Notes: Keep-

Cutting Notes: nice skin

NDTX102796CbS-2W-Round White. Parentage (ND059999C-4 x ND060618CB-3). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: smooth skin round

Weakness: chip? , too big, move to chip trial larger tubers, some russeting

Cutting Notes: nice size nice skin, too large??

NDTX102816CABS-1W-Round White Parentage (ND060476CAb-6 x ND7519-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice round shape, shallow eyes, uniform, BOT, nice size

Weakness: average skin finish

Cutting Notes: nice size

NDTX102816CABS-2W-Oblong White Parentage (ND060476CAb-6 x ND7519-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: size parent very small uniformly small tubers, check tuber count lots of small tubers

Weakness: poor skin finish poor shape

Cutting Notes: nice size ++

NDTX102852CB-3Ru-Oblong Russet Parentage (ND060607B-4 x ND060831C-6). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice shape, large tubers

Weakness:

Chip Notes: BOT+

Cutting Notes: nice skin

NDTX102852CB-4Ru-. Oblong Russet Parentage (ND060607B-4 x ND060831C-6). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: nice shape

Weakness: hollow heart, large tubers

Chip Notes:

Cutting Notes: nice skin

NDTX102903-6R/R-Oblong Red. Parentage (ND060806-1R x ND4659-5R). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: red-purple skin color

Weakness: some road map, pale red flesh

Cutting Notes: small, round, red flesh

NDTX102921C-1W-Oblong White. Parentage (ND060835C-4 x Dakota Pearl). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: nice shape and size

Weakness: drop for hollow heart,

Chip Notes: drop,

Cutting Notes: flat

NDTX113059-1W-Oblong White Parentage (Ivory Crisp x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: smooth

Weakness:

Chip Notes: BOT Keep

Cutting Notes: small

NDTX113218C-2W-Oblong White Parentage (ND860-2 x ND5873-53). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: better shape

Weakness: poor shape

Chip Notes: Keep

Cutting Notes: poor shape

NDTX113218C-3W-Oblong White Parentage (ND860-2 x ND5873-53). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice shape, BOT-, smooth

Weakness:

Chip Notes: BOT+

Cutting Notes: poor shape

NDTX113254-1R-. Round Red Parentage (ND4659-5R x AND00272-1R). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength:

Weakness: poor shape+, drop

Cutting Notes: nice flesh

NDTX113266C-1W-Oblong White Parentage (ND5873-53 x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: heavy set

Weakness: too oblong, shape??

Chip Notes: Keep

Cutting Notes: poor shape

NDTX113270S-2W-Oblong White Parentage (ND6620-14 x Dakota Pearl). Cross was made in North Dakota and selected in Texas.

Uses:

Strength:

Weakness: some mixed, oblong, poor size, drop, too oblong, poor shape,

Cutting Notes: smooth, nice shape

NDTX113270S-4W-Oblong White Parentage (ND6620-14 x Dakota Pearl). Cross was made in North Dakota and selected in Texas.

Uses:

Strength:

Weakness: oblong, not uniform, drop light set, too oblong

Cutting Notes: nice size

NDTX113277-1W-Oblong White Parentage (ND7192-1 x Ivory Crisp). Cross was made in North Dakota and selected in Texas.

Uses:

Strength:

Weakness: some rough, hollow heart, poor shape

Chip Notes: Keep

Cutting Notes: small

NDTX113281B-1W-Oblong White Parentage (ND7381B-17 x Dakota Pearl). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness: small, poor shape

Chip Notes: Drop?

Cutting Notes: small

NDTX4784-7R-Round Red. Parentage (ND3574-5R x ND2050-1R). Cross was made in North Dakota and selected in Texas. Early maturity. Medium vine size. Lavender flower color

Uses: fresh

Strength: yield++, BOT, nice shape nice skin color and shape good skin set

Weakness: not as nice, low yield

Cutting Notes: small nice skin color and shape

NDTX5438-11R-Round Red. Parentage (ND4339-10R x ND4269-9R). Cross was made in North Dakota and selected in Texas. Late maturity. Medium vine size. Lavender flower color.

Uses: fresh

Strength: nice dark skin, BOT-, nice shape nice shape and flesh, nice skin color, BOT-,

Weakness: deep eyes, low yield, tuber moth

Cutting Notes: BOT very nice shape and skin

Nectar-Oblong White. Parentage (Famosa x Red Cara). Cross was made by Teagasc Crops Research Centre. Early maturity. Medium vine size. White flower color.

Uses: fresh

Strength: BOT-, yield+ smooth skin, nice shape,

Weakness: small

Cutting Notes: mid-season yellow, nice shape and flesh

OR05039-4-Long White. Parentage (AO95245-2 x PA00N29-3). Cross was made and selected in Oregon. Early maturity. Medium vine size. White flower color.

Uses: process

Strength: light russet, nice shape

Weakness: pear shaped, light net, and pointed drop poor skin finish

Cutting Notes: blocky, nice shape

Pacific Russet-Oblong Russet. Parentage (NDA8694-3 x Century Russet). Cross made by Agriculture and Agri-Food Canada. Early maturity. Medium vine size. White flower color.

Uses: fresh

Strength: fat tubers nice shape

Weakness: oversized ugly net, blocky, pointed, drop

Cutting Notes: very nice shape, blocky, very white flesh

POR06V12-3-Oblong-Long Russet. Parentage (PA00V6-4 x PA01N22-1). Cross was made and selected in Oregon. Med-late maturity Med-large vine size White flower color.

Uses: dual

Strength: nice shape

Weakness: stem attachment, drop, small, light set hollow heart++, blocky

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: fresh

Strength: nice flesh

Weakness: poor skin finish, all blue like flesh, light set light flesh

Cutting Notes: nice shape and flesh very dark flesh

Purple Peruvian-Long Purple/Purple. Parentage (??).

Uses: fresh

Strength: ok, better

Weakness: rough very deep eyes, all blue like flesh, rough++, points,

Cutting Notes: deep eyes, rough

Ranger Russet-Long Russet. Parentage (Butte x A6595-3). Cross was made and selected in Aberdeen. Released in 1991 by USDA-ARS, and the Colorado, Aberdeen, Oregon and Washington Agricultural Experiment Stations. Medium-late maturity. Large vine size. White flower color.

Uses: fresh

Strength: nice shape, smooth, long,

Weakness: light skin, skinny, rough, poor shape deep eyes, drop, skinny, rough

Cutting Notes: skinny long, pointed

Red LaSoda-Oblong Red. Parentage (Triumph x Katahdin). Cross was made and selected in Louisiana. Red LaSoda is a clonal selection from LaSoda made by Louisiana State University. Medium maturity. Medium-large vine size. Purple flower color.

Uses: fresh

Strength: nice yield nice, yield nice skin color

Weakness: deep eyes, some brown center, some feathering rough,

Cutting Notes: deep eyes, some red streaks in flesh

Rodeo-Oblong Red. Parentage (Mondial x Bimonda). Cross made in the Netherlands. Late maturity. Large vine size. Red violet flower color

Uses: fresh

Strength: nice flesh

Weakness: poor shape, light skin, poor shape++,

Cutting Notes: Red skin/yellow flesh, nice shin and flesh color

Rosara-Long Red. Parentage (Secura x 2605 77). Cross made in Germany. Very early maturity. Medium vine size. Red violet flower color.

Uses: fresh

Strength: nice flesh

Weakness: low yield, poor shape poor internals

Cutting Notes: Red Yellow, some pointed

Cutting Notes: Red Yellow, nice flesh

Russet Burbank-Long Russet. Luther Burbank reported the origin of Russet Burbank in 1914 as a chimeric selection from the variety Burbank by Lou Sweet. Lou Sweet was a potato grower in the western slope area of Colorado and was President of the Potato Association of America in 1920. Late maturity. Large vine size. White flower color.

Uses: fresh

Strength:

Weakness: rough, many culls, curved, rough skinny, ugly

Cutting Notes: nice for Burbank rough

Russet Norkotah-Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Released in 1987 by the North Dakota Agricultural Experiment Station. Early-medium maturity. Medium vine size. Corolla is white and anthers are yellow-orange.

Uses: fresh

Strength: very nice, BOT, nice shape, smooth

Weakness: rough, pointed, small

Cutting Notes: nice shape, some pointed

Russet Norkotah296-Oblong-Long Russet. Parentage (ND95264Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Russet Norkotah296 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah. Early maturity. Medium vine size. White flower color

Uses: fresh

Strength:

Weakness: rough, low yield, curved, some rough too long, pointed

Cutting Notes: nice shape

Shepody-Long White. Parentage (Bake King x F58050). Selected in New Brunswick, Canada and released by Agriculture Canada, New Brunswick in 1980. Medium-late maturity. Medium vine size. Light violet flower color with white tips.

Uses: fresh

Strength:

Weakness: rough, pear shaped poor net

Cutting Notes: nice shape flat

Sierra Gold-Round-oblong Russet/Yellow. Parentage (Krantz x Delta Gold). Cross was made and selected in Texas. Early maturity. Medium vine size.

Uses: fresh

Strength: nice skin, shape, and flesh, BOT++

Weakness:

Cutting Notes: BOT nice shape and skin

Sierra Rose-Oblong Red/Yellow. Parentage (A90601-2RDY X MAZAMA). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Early maturity. Medium vine size. Purple flower color

Uses: fresh

Strength: very nice skin and flesh nice shape, smooth

Weakness: some nipples, light skin and flesh, some large, silver scurf

Cutting Notes: BOT of red/yellow some red streaks

Smiley-Oblong Red. Parentage (?).Medium to late maturity. Medium vine size.

Uses: fresh

Strength: nice flesh very nice flesh,

Weakness: low yield poor skin, light skin

Cutting Notes: red white pinto skin, nice flesh

Soraya-Oblong White. Parentage (?). Late maturity.

Uses: fresh

Strength: nice flesh,

Weakness: poor shape and yield poor internals, rough

Cutting Notes: nice shape and flesh

Sprint-Oblong White. Parentage (SIRCO x MIN 72-74). Very early maturity. Medium vine size. White flower color.

Uses: fresh

Strength: nice shape+

Weakness: road map poor internals

Cutting Notes: deep eyes, rough, ugly

Stampede Russet-Oblong-Long Russet. Parentage (BR7091-1 x Lemhi Russet), cross made in Texas, selected in Idaho and tested extensively in Alberta, Canada. Released in 1999 by Agriculture and Agri-

Food Canada and the Texas Agricultural Experiment Station. Early maturity. Medium vine size.
Lavender flower color.

Uses: fresh

Strength: large tubers, BOT-nice shape++ very nice better rep, keep

Weakness: blocky low yield

Cutting Notes: small blocky, nice shape

Tebina-Oblong White. Parentage (?)

Uses: fresh

Strength:

Weakness: small, oblong to round, lenticels, rough

Cutting Notes: small, poor shape white flesh, small

TX08350-12Ru-Long Russet. Parentage (TXA549-1Ru x AC96052-1RU). Cross was made and selected in Texas.

Uses: fresh

Strength: fat tubers good yield nice shape

Weakness: pointed poor internal drop for internals++++ some pointed, hollow heart on large tubers

Cutting Notes: small, blocky, hollow heart small, mixed flesh, planted white flesh

TX08351-5Ru-Long Russet Parentage (TXA549-1Ru x AOA95154-1) Cross was made and selected in Texas.

Uses: fresh

Strength: yield+ nice skin and shape

Weakness: small, blocky to round, drop++ hollow heart on large tubers, feathering

Cutting Notes: very small some flat

TX08352-5Ru-Long Russet. Parentage (TXA549-1Ru x AOTX98137-1RU). Cross was made and selected in Texas.

Uses: fresh

Strength: keep fat, nice flesh BOT? Nice flesh, BOT

Weakness: blocky eyes a little deep, some rough hollow heart, oversized small, light set, late

Cutting Notes: large fat tubers, BOT

TX08363-2R-Oblong Red Parentage (CO98012-5R x BTX2332-1R) Cross was made and selected in Texas.

Uses: fresh

Strength: BOT-, nice shape, good skin set nice set, BOT-

Weakness: very low yield, feathering, drop low yield internals? Some road map skinny

Cutting Notes: flat, feathering, poor shape, drop, sprouts+ nice flesh

TX08375-3R-Round Red Parentage (CO97222-1R/R x POR02PG26-5) Cross was made and selected in Texas.

Uses: fresh

Strength: nice shape and skin color, nice shape good skin set move to small potato

Weakness: shape? Small+,

Cutting Notes: variable size nice shape, small, sprouts++

TX08385-1W/Y-Oblong White/ Yellow. Parentage (COTX03025-1P/P x 93-1285-6). Cross was made and selected in Texas.

Uses: fresh

Strength: yield+, better net, nice flesh BOT-, uniform size B's, nice flesh very nice, nice flesh, smooth

Weakness: drop, uneven net, poor shape eyes a little deep

Cutting Notes: nice shape variable shape, long sprouts

TX09396-1W-Oblong White Parentage (Atlantic x NY139) Cross was made and selected in Texas.

Uses: chip

Strength: large tubers, nice light set

Weakness: rough, large tubers

Chip Notes: BOT-, Keep

Cutting Notes: nice size nice shape

TX09403-14W-Round White Parentage (NY138 x Ivory Crisp) Cross was made selected in Texas.

Uses: chip

Strength: very nice shape, uniform, BOT, yield+, heavy set nice shape and size

Weakness:

Chip Notes: Keep-

Cutting Notes: smooth uniform shape and size

TX09406S-1P/P-Round Purple Parentage (A99331-2RY x CO00405-1R) Cross was made and selected in Texas.

Uses: fresh

Strength: keep, nice shape and size, lots of B's, BOT nice shape and color, uniformly small,

Weakness: average skin finish, some silver scurf

Cutting Notes: not as dark flesh very nice size and shape, BOT

TX09420-1R/Y-R-Round Red Parentage (POR03PG23-1 x COTX94218-1R) Cross was made and selected in Texas.

Uses: fresh

Strength: BOT-nice shape, nice skin good skin set

Weakness: red streaks in flesh poor flesh poor internals flesh? Purple streaks

Cutting Notes: yellow and red center flesh, red color at center of tuber flesh, nice skin color

TX09420-3R/Y-Oblong Red Parentage (POR03PG23-1 x COTX94218-1R) Cross was made and selected in Texas.

Uses: fresh

Strength: nice skin good skin set nice shape

Weakness: poor internals, purple streaks flesh? Purple streaks poor flesh, red streaks in flesh

Cutting Notes: yellow and red center flesh, red color at center of tuber flesh

TX09429-1P/P-Oblong Purple Parentage (COTX0325-1P/P x COTX04050-1P/P) Cross was made in

Colorado and selected in Texas.

Uses: fresh

Strength: nice flesh color, very dark flesh

Weakness: light set road map poor skin, light flesh

Cutting Notes: very dark flesh, keep dark flesh

TX10437-10P-Round Purple. Parentage (AOTX93483-1R x ATTX98500-3PW/Y). Cross was made and selected in Texas.

Uses: fresh

Strength: nice skin color very nice, PVP, BOT, good skin set, nice flesh, yield+, nice skin large tubers

Weakness: some feathering

Cutting Notes: nice skin color large tubers, nice flesh, poor shape

TX11448-2R-Oblong Red Parentage (Rio Rojo x COTX94218-1R) Cross was made and selected in Texas.

Uses:

Strength:

Weakness: some feathering

Cutting Notes: nice, very light yellow flesh

TX11448-3R-. Parentage (Rio Rojo x COTX94218-1R) Cross was made and selected in Texas.

Uses:

Strength: nice shape

Weakness: light skin

Cutting Notes: short dormancy

TX11448S-4R-. Parentage (Rio Rojo x COTX94218-1R) Cross was made and selected in Texas.

Uses:

Strength: nice shape nice round shape, good skin finish, check tuber count

Weakness: light skin

Cutting Notes: nice size

TX11458-1R/Y-. Long Red Parentage (Rio Rojo x ATTX98444-16R/Y) Cross was made and selected in Texas.

Uses:

Strength: nice shape, nice flesh

Weakness:

Cutting Notes: very nice flesh

TX11458-2R/Y-Oblong Red Parentage (Rio Rojo x ATTX98444-16R/Y) Cross was made and selected in Texas.

Uses:

Strength: nice flesh

Weakness: feathering

Cutting Notes: smooth skin, nice flesh

TX11458-3R/Y-. Oblong Red Parentage (Rio Rojo x ATTX98444-16R/Y) Cross was made and selected in Texas.

Uses:

Strength: nice skin and flesh

Weakness: small

Cutting Notes: nice skin, light flesh

TXA549-1Ru-Oval Russet. Parentage (ND9687-3Ru x ND9852-1Ru). Cross was made in Texas, selected in Aberdeen and tested extensively in Alberta, Canada. Medium-late maturity. Medium-large vine size. Purple flower color with White tips.

Uses: fresh

Strength: BOT nice

Weakness: variable size hollow heart on very large tubers, blocky

Cutting Notes: very nice shape nice, 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

Strength: keep, very nice shape

Weakness: small, low yield

Cutting Notes: pointed, small skinny

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: fresh

Strength: BOT, nice dark yellow flesh, nice shape, large tubers better yield, nice shape,

Weakness: low yield

Cutting Notes: nice shape and flesh, small large, rough

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: fresh

Strength: darker flesh than normal, large tubers, nice shape

Weakness: raised eyes on large tubers poor internals low yield

Cutting Notes: nice shape ok shape

US Blue-Oblong Purple. Parentage (?)

Uses: fresh

Strength: nice flesh

Weakness: light flesh, rough, deep eyes, and low yield

Cutting Notes: poor shape, knobs

Waneta-Oblong White. Parentage (??). Cross made and selected at Cornell University.

Uses: chip

Strength: nice shape

Weakness: light set, low yield+,

Chip Notes: BOT++

Cutting Notes: very nice BOT

White LaSoda-Oblong White. Parentage (Triumph x Katahdin).

Uses: fresh

Strength: yield+, large tubers, red eyes, eyes not as deep

Weakness: oversized, deep eyes

WTX10638-2W/Y-. Oblong White/Yellow. Parentage (Molli x W2133-1) Cross was made in Wisconsin and selected in Texas.

Uses:

Strength: nice flesh, yield+

Weakness: poor shape, scab++, drop++

Cutting Notes: nice size

WTX10640-2W-. Round White Parentage (Torrison x A-32) Cross was made in Wisconsin and selected in Texas.

Uses: Strength

Weakness: poor shape++, very small

Chip Notes: Keep

Cutting Notes: nice shape

WTX10640-3W-. Round White Parentage (Torrison x A-32) Cross was made in Wisconsin and selected in Texas.

Uses: Strength

Weakness: poor internals, small, poor shape

Chip Notes: Keep-

Cutting Notes: small

WTX10646-2W-. Oblong White Parentage (W2324-1 x Eva) Cross was made in Wisconsin and selected in Texas.

Uses:

Strength:

Weakness:

Chip Notes: Keep

Cutting Notes: nice flesh

WTX10646-7W-. Oblong White Parentage (W2324-1 x Eva) Cross was made in Wisconsin and selected in Texas.

Uses:

Strength:

Weakness: poor internals, ugly+, poor shape, rough, hollow heart

Chip Notes: drop

Cutting Notes: poor shape

WTX10666-5W-. Round White Parentage (Tacna x W2717-5) Cross was made in Wisconsin and selected in Texas.

Uses:

Strength:

Weakness: poor yield

Chip Notes: Drop

Cutting Notes: nice flesh

WTX10666-8W-. Oblong White Parentage (Tacna x W2717-5) Cross was made in Wisconsin and selected in Texas.

Uses:

Strength:

Weakness: poor shape

Chip Notes: Keep

Cutting Notes: poor shape

Yukon Gold-Oblong White/Yellow. Parentage (W5279-4 x Norgleam). Cross was made and selected in Ontario, Canada. Released in 1980 by Agriculture Canada, The University of Guelph, and The Ontario Ministry of Agriculture) Food, Guelph, Ontario. Medium-early maturity. Medium-large vine size. Violet flower color.

Uses: fresh

Strength: BOT nice shape nice shape and flesh

Weakness: light set, poor internals

Cutting Notes: poor internals nice shape

Appendix B. Parentage of potato varieties or selections-2014.

Variety or Selection	Parentage
Ackersegen	Hindenburg x Allerfruheste
Actrice	DENISE x AGATA
Adora	Pimura x Alcmaria
Agria	Quarta x Semlo
Alegria	?
All Blue	Unknown
Alpha	Paul Kruger x Preferent
Ambra	Duke of York x Reneta Lub B 53
Asterix	Cardinal x SVP VE 70-9
Atlantic	Wauseon x Lenape
Avalanche	DHS40-1034 9 x Maris Piper
Aziza	Smeenge 69-17 x Smeenge74-5
Baltic Cream	?
Banana	?
Beacon Chipper	??
Bettina	?
Binje	Munstersen x Fransen
Boulder	MS702-80 x NY88
Caesar	Monalisa x Rop B 1176
Carola	
Carrera	
Century	A6789-7 x A6680-5
Chieftan	la1027-18 x La1354
Chipeta	WNC612-13 x Wischip
Climax	Bintje x Record
Courage	
Dakota Jewel	ND2223-8R x ND649-4R

Variety or Selection	Parentage
Dark Red Norland	Redkote x ND626
Day-9	
Delikat	
Desiree	Urgenta x Depesche
Diamante	TDV54-30-8 x SVP55-89
Dore	Duke of York x BiermaA7
Eerstelling	Early Primrose x King Kidney
Eigenheimer	Blaue Riesen x Fransen
Electra	C1992/42 x Picasso
Emma	Colleen x Estima
Estima	
Fabula	
Florissant	Premiere x VK 69-491
Fortuna	
Foxton	Irene x Maris Piper
Gasora	?
German Butter Ball	
Golden Sunburst	
Granola	3333 60 x 267 04
Green Mountain	Dunmore x Excelsior
Hertha	Dijkhuis61-133 x Konst62-374
Innovator	Shepody x RZ 84-2580
Irish Crispin	Amigo x DH70-699 3a
Ivory Crisp	ND292-1 x A77268-4
Kalkaska	B1254-1 X S440
Keuka Gold	Steuben x Norwis
King Harry	
Krasaua	Visnovske Rohlic x B53
La Rouge	LaSoda x Progress
Lanorma	Bydand x Caesar
Latona	Jaerla x Nicola
Magic Molly	Open pollinated seed ball from Red Beauty

Variety or Selection	Parentage
Maris Piper	
Mazama	ND1196-2R x Redsen
MegaChip	Wischip x FYF85
Merlin	Cara x 93/2
Modoc	ND1196-2R x ND2225-1R
Molli	
Mondial	Spunta x Ve 66-295
Morning Gold	Olinda x Y 68-4-103
Nectar	Famosa x Red Cara
NorDonna	ND206-1R x ND821-6R
Norgold-M	ND2475-8 x A119-1
NorValley	NorChip x ND860-2
Oscar	Desiree x VK 64 491
Ottar	Dore x DsxAS-737
Pacific Russet	NDA8694-3 x Century Russet
Penta	Bellona x Estima
Pimpernel	
Platina	
Premiere	
Primica Inta	
Prince Hairy	Hudson x PI 310925
Purple Majesty	ND2008-2 x All Blue
Purple Peruvian	ND1562-4R x NDTX9-1098-11R
Ranger Russet	Butte x A6595-3
Red Gold	G68211 x G6521-4RY
Red LaSoda	Triumph x Katahdin
Rio Rojo	ND1562-4R x NDTX9-1098-11R
Rodeo	Mondial x Bimonda
Rosara	Secura x 2605 77
Rose Gold	Abnaki x G6521-4RY
Russet Burbank	Mutant from Burbank
Russet Legend	Century Russet x WNC672-2

Variety or Selection	Parentage
Russet Norkotah	ND9526-4RU x ND9687-5Ru
Russet Norkotah112	ND9526-4RU x ND9687-5Ru
Russet Norkotah223	ND9526-4RU x ND9687-5Ru
Russet Norkotah278	ND9526-4RU x ND9687-5Ru
Russet Norkotah296	ND9526-4RU x ND9687-5Ru
Rutt	Laila x Alcmaria
Saginaw Gold	MS321-38 x Michibonne
Sangre	Viking x A6356-9
Sangre10	Viking x A6356-9
Sante	SVPY66-13-636 x AM66-42
Satina	Puntila x 99 73
Shepody	Bake King x F58050
Sierra Gold™	Krantz x Delta Gold
Sierra Rose	A90601-2RDY X MAZAMA
Smiley	?
Snowden	B5141-6 x Wischip
Soraya	?
Sprint	SIRCO x MIN 72-74
Stampede Russet	BR7091-1 x Lemhi Russet
Strobrawa	MPI55 957/54 x Mira
Super Red	
Tebina	?
Ukama	Marijke x Sirtema
Urgenta	Furore x Katahdin
US Blue	?
Valisa	
Viking	Redskin x Nordak
Vivaldi	TZ 77-148 x Monalisa
Vokal	Primura x Rheinhort
Waneta	??
Winema	Redsen x ND1196-2R
Yellow Finn	

Variety or Selection	Parentage
Yukon Gold	W5279-4 x NorGleam
Numbered Clones	
A02062-1TE	A97201-4 x A97299-1
A02138-2	A96563-8 x Premier R
A02267-1Y	Inca Gold x ND5256-7R
A02424-83LB	AO96781-4 x A97229-1
A02507-2LB	EGA09702-2 x GemStar R
A03158-2TE	A98292-2 x A98104-4
A03921-2	A96953-13 x A93005-10
A05180-3PY	ATND9331-2 x VC1075-1R
A05182-7RY	ATND93331-2 x A99433-5Y
A06021-1T	A99031-1TE x A96013-2
A06084-1TE	A98345-1 x A97267-1
AC00206-2W	AC87340-2 x Dakota Pearl
AC03452-2W	A98423-1C x COA96141-2C
AC05039-2RU	A99032-2TE x COA00287-1
AC05153-1W	A91814-5 x Chipeta
AC05175-3P/Y	A99331-2R/Y x COA99261-1RY
AO01114-4	AO92017-6 x A86102-6
AO02060-3	A97201-4 x Premier Russet
AORTX06670-1Ru	ND7882b-7Russ x PALB03016-3
AORTX06670-5Ru	ND7882b-7Russ x PALB03016-3
AORTX09245-1Ru	PA06NC13-1 x PA03NM10-4
AOTX05043-1Ru	A99032-2TE x Summit Russet
AOTX95265-1Ru	A89216-9 x A86102-6
AOTX95265-3Ru	A89216-9 x A86102-6
AOTX96216-2Ru	A89216-9 x A86102-6
AOTX98152-3Ru	A88338-1 X A9201-6
ATTX01180-1R/Y	ND5084-3R x A92657-1R
ATTX05175S-1R/Y	A99331-2RY X COA99261-1RY
ATTX05186S-3W/Y	A99433-5Y x VC1075-1R
ATTX06246S-1R	Gogu Valley x Modoc

Variety or Selection	Parentage
ATTX07039-2Ru	Stampede Russet EM x AO0385-2 EM 400
ATTX07230-1Y/RE/Y	AO0286-3Y y x Modoc red 500
ATTX961014-1BR/Y	A90601-2RDY X MAZAMA
ATTX98444S-16R/Y	A83360-9R X T48YF
ATTX98453-6R	A93490-1R x A91846-5R
ATTX98462S-3R/Y	ATD251-5RY X BO811-13RY
ATTX98514-1R/Y	T51YF X A93456-6R
ATX00289-2Ru	NDA5507-3 X TXA1655-1DY
ATX02263-1R/Y	Inca Gold x A92653-6R
ATX05142-2Ru	Rio Grande Russet x A97214-4
ATX05186S-1R	A99433-5Y x VC1075-1R
ATX05202S-3W/Y	A00286-3Y x A99433-5Y
ATX06254S-2R	A99331-2RY x Durango Red
ATX06264S-4R/Y	A99331-2RY x Durango Red
ATX07175S-2R/Y	US 147-96 R/Y x Modoc
ATX84378-6Ru	A79141-9 x ND329-1
ATX91137-1Ru	A81473-2 x A8343-12
BO 15 AL	?
BO 15 V	?
BO14AG	?
BTX1544-2W/Y	BO811-13 x Yukon Gold
BTX2103-1R/Y	BO811-13 x ARS-W82-21285-1
BTX2332-1R	B1523-4 x Super Red Norland
CIT #1	?
CIT #2	?
CIT #3	?
CIT #4	?
CIT #5	?
CIT #6	?
CIT #7	?
CO03243-3W	BC0894-2W x A91790-13
CO03276-5RU	CO95086-8RU x Blazer Russet

Variety or Selection	Parentage
CO04067-8R/Y	CO97232-1R/Y x ATC98444-1R/Y
CO04099-3W/Y	VC1002-3W/Y x ATC98495-1W/Y
CO05028-11P/RWP	AC99329-4R/Y x CO97227-2P/PW
CO05028-4P/PY	AC99329-4R/Y x CO97227-2P/PW
CO05035-1PW/Y	Masquerade x US147-96
CO05037-2R/Y	AC99330-1P/Y x CO97227-2P/PW
CO05037-3W/Y	AC99330-1P/Y x CO97227-2P/PW
CO05068-1RU	AWN86514-2 x CO98009-3RU
CO05079-4P/PW	CO97216-3P/PW x CO97227-2P/PW
CO05175-1RU	CO94035-15RU x AC96052-1RU
CO05228-4R	CO99256-2R x CO00292-9R
CO06057-3RU	CO98009-3RU x Premier Russet
COTX01403-4R/Y	VC1015-7R/Y x Winema
COTX02172-1R	CO94065-2R x ND3574-5R
COTX02293-4R	CO94065-2R x ND3574-5R
COTX03134-1W	Laratte x PA97B36-3
COTX04015-3AWRE/Y	ATC98495-1W/Y x TX1674-1W/Y
COTX04050S-1P/P	CO97215-2P/P x CO97306-2P/P
COTX04193S-2R/Y	ATC98515-1R/Y x ND3574-5R
COTX05095-2Ru/Y	CO99045-1W/Y X AO96164-1
COTX05249-3W/Y	CO00320-1R x ATC98509-1R/Y
COTX07054-2R	ATDC9801-3P x CO99076-6R
COTX07382-2W/Y	Blazer Russet x Innovator
COTX08044F-1R/R	FF x KP x FF x KP
COTX08045F-2R/R	FF x KP x POR01PG22-1
COTX08214-2Ru	AC96052-1RU X Blazer Russet
COTX08258-6Ru	PA98V6-1 x Blazer russet
COTX08322-10Ru	Blazer Russet x AC96052-1RU
COTX08365F-1P/P	POR01PG16-1 x CO00405-1R
COTX08365F-3P/P	POR01PG16-1 x CO00405-1R
COTX08365F-4R/R	POR01PG16-1 x CO00405-1R
COTX09022-3RuRE/Y	A00286-3Y x CO99100-1RU

Variety or Selection	Parentage
COTX09022-5RE/Y	A00286-3Y x CO99100-1RU
COTX09042-2Ru	CO99053-3RU x CO03202-1RU
COTX09052-1Ru	CO03202-1RU x CO98067-7RU
COTX09052-2Ru	CO03202-1RU x CO98067-7RU
COTX09089-1Ru	94-10800-1 x COTX03308-3RU
COTX10007-1Ru	A97066-42LB x Alpine Russet
COTX10007-2Ru	A97066-42LB x Alpine Russet
COTX10010-1Ru	A0008-1TE x CO98067-7RU
COTX10013-3Rure	A00286-3Y x CO98067-7RU
COTX10031-1W	AC01151-5W x CO02033-1W
COTX10073S-1W	A97066-42LB x Alpine Russet
COTX10076-11W	CO03243-3W x CO02024-9W
COTX10076-1W-	CO03243-3W x CO02024-9W
COTX10076-7W	CO03243-3W x CO02024-9W
COTX10076-8W	CO03243-3W x CO02024-9W
COTX10079-11W	CO03273-7W x CO02321-4W
COTX10080-2Ru	CO03364-5RU x CO98067-7RU
COTX10080-3Ru	CO03364-5RU x CO98067-7RU
COTX10080-5Ru	CO03364-5RU x CO98067-7RU
COTX10080-8Ru	CO03364-5RU x CO98067-7RU
COTX10084-7Ru	CO03364-5RU x Alpine Russet
COTX10092-1Ru	CO03371-4RU x CO99053-3RU
COTX10092-5Ru	CO03371-4RU x CO99053-3RU
COTX10097-2W/Y	CO04067-10W/Y x CO00412-5W/Y
COTX10110-1Ru	Blazer Russet x AC02708-1RU
COTX10111-10Ru	Blazer Russet x CO98067-7RU
COTX10111-1Ru	Blazer Russet x CO98067-7RU
COTX10111-2Ru	Blazer Russet x CO98067-7RU
COTX10111-4Ru	Blazer Russet x CO98067-7RU
COTX10111-8Ru	Blazer Russet x CO98067-7RU
COTX10114-1Ru	Classic Russet x CO99053-3RU
COTX10115-1Ru	Classic Russet x CO99100-1RU

Variety or Selection	Parentage
COTX10117-1Ru	Silverton Russet x CO99053-3RU
COTX10118-7P/Y	07S019 x AC03534-2R/Y
COTX10118S-3WRE/Y	07S019 x AC03534-2R/Y
COTX10138-14P/Y	AC99329-7PW/Y x AC03534-2R/Y
COTX10138-16W/Ypinto	AC99329-7PW/Y x AC03534-2R/Y
COTX10138-17P/Y	AC99329-7PW/Y x AC03534-2R/Y
COTX10138-18P/Y	AC99329-7PW/Y x AC03534-2R/Y
COTX10138-19P/Y	AC99329-7PW/Y x AC03534-2R/Y
COTX10138-8W/Ypinto	AC99329-7PW/Y x AC03534-2R/Y
COTX10138S-7WPE/Y	AC99329-7PW/Y x AC03534-2R/Y
COTX10141-11Ru	AC00395-2RU x CO03177-2RU
COTX10141-12Ru	AC00395-2RU x CO03177-2RU
COTX10141-13Ru	AC00395-2RU x CO03177-2RU
COTX10141-15Ru	AC00395-2RU x CO03177-2RU
COTX10156-5Ru	AC03300-1RU x CO03276-4RU
COTX10171-2Ru	AO00057-2 x Blazer Russet
COTX10179-2Ru	CO98067-7RU x CO03202-1RU
COTX10226S-1WRE/Y	CO04117-5PW/Y x AC03534-2R/Y
COTX10231-1Ru	CO04204-7RU x A01010-1
NDA050237B-1R	ND028678-1RY x ND028770B-4R
NDA081451CB-1CY	Dakota Diamond x ND 039173CAB-22
NDTX050070-1R	ND 8375b-6R x ND 8347CB-12R
NDTX050184S-1R/Y	ND 028577-6RY x ND 8555-8R
NDTX059759-3RY/YPinto	ATND 99331-2 Pinto x ND 7834-2P
NDTX059775-1W/Y	R 89063-84 x Bison
NDTX059886S-1W/Y	NDA5507-3 X TXA1655-1DY
NDTX060700C-1W	NDTX 7560C-4 x NDTX 7192-1
NDTX071109C-1W	ND 7226C-17 x ND 860-2
NDTX071217CB-1W/Y	ND 028801CB-1 x ND 039004B-2Y
NDTX071258BS-1R	ND 039035B-9R x ND 4659-5R
NDTX081451CBS-1Y/Y	Dakota Diamond x Gala
NDTX081572B-1R	ND 4659-5R X ND 028940B-102R

Variety or Selection	Parentage
NDTX081644CAB-2W	ND 8331Cb-3 X ND 028804CAB-5
NDTX081648CB-13W	ND 8456-1 xND7377CB-1
NDTX081648CB-1W	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
NDTX092238CS-1P/W	ND 049326C-2P x ND 8555-8R
NDTX092238CS-3P/W	ND 049326C-2P x ND 8555-8R
NDTX092238CS-4P/W	ND 049326C-2P x ND 8555-8R
NDTX102461AB-4W	Ivory Crisp x ND 060421Ab-1
NDTX102462C-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
NDTX102639CS-1W	ND7550C-1 x ND060831C-6
NDTX102640Cb-1W	ND7550c-1 x ND071006B-2
NDTX102643CAB-1W	ND7799c-1 x ND060380Ab-5
NDTX102702C-1W	ND049326C-2P x ND059978C-1
NDTX102796CbS-2W	ND059999C-4 x ND060618CB-3
NDTX102816CABS-1W	ND060476CAB-6 x ND7519-1
NDTX102816CABS-2W	ND060476CAB-6 x ND7519-1
NDTX102852CB-3Ru	ND060607B-4 x ND060831C-6
NDTX102852CB-4Ru	ND060607B-4 x ND060831C-6
NDTX102903-6R/R	ND060806-1R x ND4659-5R
NDTX102921C-1W	ND060835C-4 x Dakota Pearl
NDTX113059-1W	Ivory Crisp x ND7192-1
NDTX113218C-2W	ND860-2 x ND5873-53
NDTX113218C-3W	ND860-2 x ND5873-53
NDTX113254-1R	ND4659-5R x AND00272-1R
NDTX113266C-1W	ND5873-53 x ND7192-1
NDTX113270S-2W	ND6620-14 x Dakota Pearl

Variety or Selection	Parentage
NDTX113270S-4W	ND6620-14 x Dakota Pearl
NDTX113277-1W	ND7192-1 x Ivory Crisp
NDTX113281B-1W	ND7381B-17 x Dakota Pearl
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
TX08352-5Ru	TXA549-1Ru x AOTX98137-1RU
TX08363-2R	CO98012-5R x BTX2332-1R
TX08375-3R	CO97222-1R/R x POR02PG26-5
TX08385-1W/Y	COTX03025-1P/P x 93-1285-6
TX09396-1W	Atlantic x NY139
TX09403-14W	NY138 x Ivory Crisp
TX09406S-1P/P	A99331-2RY x CO00405-1R
TX09420-1R/Y-R	POR03PG23-1 x COTX94218-1R
TX09420-3R/Y	POR03PG23-1 x COTX94218-1R
TX09429-1P/P	COTX0325-1P/P x COTX04050-1P/P
TX10437-10P	AOTX93483-1R x ATTX98500-3PW/Y
TX11448-2R	Rio Rojo x COTX94218-1R
TX11448-3R-	Rio Rojo x COTX94218-1R
TX11448S-4R	Rio Rojo x COTX94218-1R
TX11458-1R/Y	Rio Rojo x ATTX98444-16R/Y
TX11458-2R/Y	Rio Rojo x ATTX98444-16R/Y
TX11458-3R/Y	Rio Rojo x ATTX98444-16R/Y
TXA549-1RU	ND9687-3Ru x ND9852-1Ru
TXNS410	ND9526-4Ru x ND9687-5Ru
TXYG057	W5279-4 x Norgleam
TXYG079	W5279-4 x Norgleam
WTX10638-2W/Y	Molli x W2133-1
WTX10640-2W	Torridon x A-32

Variety or Selection	Parentage
WTX10640-3W	Torridon x A-32
WTX10646-2W	W2324-1 x Eva
WTX10646-7W	W2324-1 x Eva
WTX10666-5W	Tacna x W2717-5
WTX10666-8W	Tacna x W2717-5

Index of Varieties and Clones

A02062-1TE.....	21, 23, 24, 123, 124, 245, 314
A02138-2	14, 15, 114, 116, 245, 314
A02267-1Y	43, 45, 143, 144, 145, 245, 315
A02424-83LB	22, 24, 122, 123, 124, 246, 315
A02507-2LB	21, 22, 24, 123, 124, 246, 315
A03158-2TE.....	21, 24, 123, 124, 246, 315
A03921-2	21, 22, 24, 122, 123, 124, 246, 315
A05180-3PY.....	36, 38, 136, 137, 138, 246, 315
A05182-7RY.....	43, 44, 45, 143, 144, 145, 247, 315
A06021-1T.....	22, 24, 123, 124, 247, 315
A06084-1TE.....	21, 24, 123, 124, 247, 315
AC00206-2W	13, 14, 15, 114, 115, 116, 247, 315
AC03452-2W	13, 14, 15, 114, 115, 116, 248, 315
AC05039-2RU.....	22, 24, 123, 124, 248, 315
AC05153-1W	13, 14, 15, 114, 115, 116, 248, 315
AC05175-3P/Y.....	36, 37, 38, 136, 137, 138, 249, 315
Ackersegen.....	309
Actrice	249, 309
Adora.....	309
Agria.....	309
Alegria.....	249, 309
All Blue.....	296, 309, 312
Alpha	309
Ambra	309
AO01114-4	22, 24, 123, 124, 249, 315
AO02060-3	22, 24, 122, 123, 124, 250, 315
AORTX06670-1Ru.....	67, 69, 182, 184, 186, 197, 250, 316
AORTX06670-5Ru.....	182, 183, 186, 197, 250, 316
AORTX09245-1Ru.....	183, 186, 197, 250, 316
AORTX10119-1W.....	244
AORTX11084-1Ru.....	244
AORTX11234-1W.....	244
AORTX11913-3Wre/Y	224, 225

AOTX05043-1Ru.....	67, 68, 69, 185, 187, 251, 316
AOTX95265-1Ru.....	68, 69, 183, 185, 187, 251, 316
AOTX95265-3Ru.....	67, 69, 183, 184, 186, 251, 316
AOTX96216-2Ru.....	21, 22, 23, 24, 122, 123, 124, 251, 316
AOTX98152-3Ru.....	21, 22, 24, 122, 123, 124, 252, 316
Asterix	309
Atlantic.....	13, 14, 15, 57, 58, 60, 114, 116, 157, 159, 165, 166, 167, 169, 252, 302, 309, 328
ATX01180-1R/Y	36, 37, 38, 136, 137, 138, 252, 316
ATX05175S-1R/Y	96, 97, 98, 99, 226, 228, 229, 252, 316
ATX05186S-3W/Y.....	97, 99, 226, 227, 229, 253, 316
ATX06246S-1R.....	98, 99, 227, 229, 253, 316
ATX07039-2Ru.....	66, 67, 68, 69, 182, 184, 186, 253, 316
ATX07230-1Y/RE/Y.....	89, 91, 216, 217, 219, 253, 316
ATX10265-4R/Y	215
ATX961014-1BR/Y.....	36, 37, 38, 136, 137, 138, 254, 316
ATX98444S-16R/Y	4, 36, 37, 38, 136, 137, 138, 254, 317
ATX98453-6R	29, 30, 31, 129, 130, 131, 254, 317
ATX98462S-3R/Y	98, 99, 255, 317
ATX98514-1R/Y	36, 37, 38, 136, 137, 138, 255, 317
ATX00289-2Ru.....	66, 67, 68, 69, 184, 186, 255, 317
ATX02263-1R/Y	81, 82, 83, 207, 208, 209, 255, 317
ATX05142-2Ru.....	22, 24, 122, 123, 124, 256, 317
ATX05186S-1R.....	96, 97, 99, 226, 227, 229, 256, 317
ATX05202S-3W/Y.....	4, 43, 44, 45, 143, 144, 145, 256, 317
ATX06254S-2R.....	96, 97, 98, 99, 226, 227, 229, 256, 317
ATX06264S-4R/Y.....	96, 97, 99, 228, 229, 256, 317
ATX07175-2R/Y	235
ATX07175S-2R/Y.....	226, 227, 229, 257, 317
ATX84378-6Ru.....	66, 68, 69, 184, 186, 257, 317
ATX91137-1Ru.....	21, 22, 23, 24, 122, 123, 124, 257, 317
Avalanche	309
Aziza	309
Baltic Cream.....	257, 309
Banana	104, 105, 106, 236, 237, 238, 258, 309

Beacon Chipper	309
Bettina	258, 309
Binje	309
BO 15 AL	258, 317
BO 15 V	258, 317
BO14AG.....	259, 317
Boulder.....	309
BTX1544-2W/Y	43, 45, 143, 144, 145, 259, 318
BTX2103-1R/Y	37, 38, 136, 137, 138, 259, 318
BTX2332-1R	29, 30, 31, 129, 130, 131, 259, 301, 318, 328
Caesar	309, 311
Carola.....	309
Carrera	309
Century	296, 309, 312, 313
Chieftan.....	29, 31, 129, 131, 260, 309
Chipeta.....	13, 14, 15, 114, 115, 116, 248, 260, 310, 315
CIT #1	13, 260, 318
CIT #2	29, 30, 31, 260, 318
CIT #3	21, 22, 24, 260, 318
CIT #4	29, 31, 261, 318
CIT #5	43, 45, 261, 318
CIT #6	43, 45, 261, 318
CIT #7	14, 15, 261, 318
Climax.....	310
CO03243-3W	14, 15, 114, 116, 261, 272, 273, 318, 321
CO03276-5RU	21, 22, 24, 122, 123, 124, 262, 318
CO04067-8R/Y	37, 38, 136, 137, 138, 262, 318
CO04099-3W/Y	43, 45, 143, 144, 145, 262, 318
CO05028-11P/RWP	50, 52, 150, 152, 262, 318
CO05028-4P/PY	50, 52, 150, 152, 263, 318
CO05035-1PW/Y	43, 45, 143, 145, 263, 318
CO05037-2R/Y	37, 38, 136, 137, 138, 263, 318
CO05037-3W/Y	45, 143, 144, 145, 263, 318
CO05068-1RU	22, 24, 122, 123, 124, 264, 319

CO05079-4P/PW	50, 51, 52, 150, 151, 152, 264, 319
CO05175-1RU	22, 24, 122, 123, 124, 264, 319
CO05228-4R	29, 30, 31, 129, 130, 131, 264, 319
CO06057-3RU	22, 24, 123, 124, 265, 319
COTX01403-4R/Y	36, 38, 265, 319
COTX02172-1R.....	74, 75, 76, 198, 199, 200, 265, 319
COTX02293-4R.....	74, 75, 76, 199, 200, 265, 319
COTX03134-1W.....	89, 91, 217, 219, 266, 319
COTX04015-3AWRE/Y	217, 219, 266, 319
COTX04050S-1P/P	98, 99, 227, 228, 229, 266, 319
COTX04193S-2R/Y.....	96, 97, 98, 99, 226, 228, 229, 266, 319
COTX05095-2Ru/Y.....	66, 67, 69, 184, 186, 267, 319
COTX05249-3W/Y.....	88, 89, 91, 216, 217, 219, 267, 319
COTX07054-2R.....	74, 75, 76, 198, 199, 200, 267, 319
COTX07382-2W/Y.....	88, 89, 91, 216, 217, 219, 267, 319
COTX08044F-1R/R	104, 105, 236, 238, 268, 320
COTX08045F-2R/R	236, 237, 238, 268, 320
COTX08214-2Ru.....	67, 69, 182, 183, 184, 186, 268, 320
COTX08258-6Ru.....	68, 69, 182, 183, 185, 186, 268, 320
COTX08322-10Ru.....	67, 69, 184, 186, 269, 320
COTX08365F-1P/P	104, 105, 236, 237, 238, 269, 320
COTX08365F-3P/P	104, 105, 236, 238, 269, 320
COTX08365F-4R/R	104, 105, 236, 237, 238, 269, 320
COTX09022-3RuRE/Y	66, 67, 68, 69, 182, 183, 185, 186, 270, 320
COTX09022-5RE/Y	4, 166, 169, 270, 320
COTX09042-2Ru.....	182, 183, 186, 270, 320
COTX09052-1Ru.....	66, 68, 69, 182, 184, 186, 270, 320
COTX09052-2Ru.....	66, 67, 68, 69, 182, 183, 186, 270, 320
COTX09089-1Ru.....	58, 60, 166, 167, 169, 271, 320
COTX10007-1Ru.....	182, 183, 186, 197, 271, 320
COTX10007-2Ru.....	66, 67, 69, 183, 186, 197, 271, 321
COTX10010-1Ru.....	66, 183, 186, 197, 271, 321
COTX10013-3Rure	183, 186, 197, 272, 321
COTX10031-1W.....	57, 168, 169, 181, 272, 321

COTX10073-1W.....	235
COTX10073S-1W	97, 99, 226, 228, 229, 272, 321
COTX10076-11W.....	57, 167, 169, 181, 272, 321
COTX10076-1W.....	57, 165, 167, 169, 181, 273, 321
COTX10076-1W -	321
COTX10076-7W.....	57, 165, 167, 169, 181, 273, 321
COTX10076-8W.....	57, 165, 167, 169, 181, 273, 321
COTX10079-11W.....	57, 166, 169, 181, 273, 321
COTX10080-2Ru.....	66, 182, 183, 186, 197, 274, 321
COTX10080-3Ru.....	66, 182, 183, 186, 197, 274, 321
COTX10080-5Ru.....	66, 183, 186, 197, 274, 321
COTX10080-8Ru.....	182, 183, 184, 186, 197, 274, 321
COTX10084-7Ru.....	184, 186, 197, 275, 321
COTX10092-1Ru.....	183, 186, 197, 275, 321
COTX10092-5Ru.....	184, 186, 197, 275, 322
COTX10097-2W/Y.....	88, 89, 91, 216, 217, 219, 275, 322
COTX10110-1Ru.....	184, 186, 197, 275, 322
COTX10111-10Ru.....	184, 186, 197, 276, 322
COTX10111-1Ru.....	183, 186, 197, 276, 322
COTX10111-2Ru.....	184, 186, 197, 276, 322
COTX10111-4Ru.....	184, 186, 197, 276, 322
COTX10111-8Ru.....	66, 68, 69, 182, 184, 186, 197, 277, 322
COTX10114-1Ru.....	66, 68, 69, 182, 183, 186, 197, 277, 322
COTX10115-1Ru.....	66, 182, 183, 186, 197, 277, 322
COTX10117-1Ru.....	184, 186, 197, 277, 322
COTX10118-3.....	235
COTX10118-7P/Y	208, 209, 278, 322
COTX10118S-3WRE/Y	226, 227, 229, 278, 322
COTX10138-14P/Y	207, 208, 209, 278, 322
COTX10138-16W/Ypinto.....	216, 217, 219, 278, 322
COTX10138-17P/Y	207, 208, 209, 278, 323
COTX10138-18P/Y	81, 207, 208, 209, 279, 323
COTX10138-19P/Y	81, 207, 208, 209, 279, 323
COTX10138-7W/Y.....	235

COTX10138-8W/Ypinto	216, 217, 219, 279, 323
COTX10138S-7WPE/Y	96, 97, 98, 99, 226, 227, 229, 279, 323
COTX10141-11Ru	66, 182, 184, 186, 197, 280, 323
COTX10141-12Ru	66, 182, 184, 186, 197, 280, 323
COTX10141-13Ru	66, 184, 186, 197, 280, 323
COTX10141-15Ru	67, 69, 184, 186, 197, 280, 323
COTX10156-5Ru	184, 186, 197, 280, 323
COTX10171-2Ru	182, 185, 186, 197, 281, 323
COTX10179-2Ru	68, 69, 182, 184, 186, 197, 281, 323
COTX10226-1	235
COTX10226S-1WRE/Y	226, 227, 229, 281, 323
COTX10231-1Ru	182, 184, 186, 197, 281, 323
COTX11042-1W	244
COTX11130-1WRE/Y	224, 225
COTX11140-2WRE/Y	224, 225
Courage	310
Dakota Jewel	310
Dark Red Norland	310
Day-9	310
Delikat	310
Desiree	310, 312
Diamante	310
Dore	310, 312
Eerstelling	310
Eigenheimer	310
Electra	282, 310
Emma	310
Estima	310, 312
Fabula	310
Florissant	310
Fortuna	310
Foxton	310
Gasora	282, 310
German Butter Ball	310

Golden Sunburst	310
Granola	282, 310
Green Mountain	311
Hertha	311
Innovator	267, 311, 319
Irish Crispin	311
Ivory Crisp.....	289, 292, 294, 302, 311, 325, 327, 328
Kalkaska	311
Keuka Gold.....	311
King Harry	290, 311, 326
Krasaua.....	311
La Rouge	311
Lanorma	282, 311
Latona	311
Magic Molly.....	311
Maris Piper	309, 310, 311
Mazama.....	311
MegaChip	311
Merlin.....	282, 311
Modoc.....	29, 30, 31, 129, 130, 131, 253, 254, 257, 283, 311, 316, 317
Molli	306, 311, 329
Mondial	297, 312, 313
Morning Gold.....	312
NDA050237B-1R.....	29, 30, 31, 129, 130, 131, 283, 324
NDA081451CB-1CY	43, 45, 143, 144, 145, 283, 324
NDTX050070-1R.....	75, 76, 198, 199, 200, 283, 324
NDTX050184S-1R/Y	226, 228, 229, 284, 324
NDTX059759-3RY/YPinto	88, 89, 90, 91, 216, 217, 218, 219, 284, 324
NDTX059775-1W/Y	88, 89, 90, 91, 216, 217, 219, 284, 324
NDTX059886S-1W/Y.....	226, 227, 229, 284, 324
NDTX060700C-1W	4, 58, 59, 60, 165, 166, 168, 169, 285, 324
NDTX071109C-1W	4, 57, 59, 60, 167, 169, 285, 324
NDTX071217CB-1W/Y	88, 89, 91, 216, 217, 219, 285, 324
NDTX071258BS-1R.....	96, 97, 98, 99, 226, 228, 229, 285, 324

NDTX081451CBS-1Y/Y	97, 99, 286, 324
NDTX081572B-1R	74, 75, 76, 198, 199, 200, 286, 324
NDTX081644CAB-2W	4, 57, 58, 59, 60, 165, 166, 168, 169, 286, 325
NDTX081648CB-13W	4, 58, 59, 60, 168, 169, 286, 325
NDTX081648CB-1W	165, 168, 169, 287, 325
NDTX081648CB-4W	168, 169, 287, 325
NDTX091886-3P/P	50, 51, 52, 150, 151, 152, 287, 325
NDTX091908AB-2W	4, 57, 58, 59, 60, 165, 166, 168, 169, 287, 325
NDTX092231C-1R	75, 76, 198, 200, 288, 325
NDTX092238CS-1P/W	97, 99, 226, 227, 229, 288, 325
NDTX092238CS-3P/W	96, 97, 99, 227, 229, 288, 325
NDTX092238CS-4P/W	97, 99, 227, 229, 288, 325
NDTX102461AB-4W	165, 167, 169, 289, 325
NDTX102462C-2W	167, 169, 289, 325
NDTX102462C-6W	4, 57, 58, 59, 60, 167, 169, 289, 325
NDTX102514ABC-5W	4, 57, 58, 59, 60, 165, 166, 169, 289, 325
NDTX102557-1W	4, 59, 60, 165, 167, 169, 290, 326
NDTX102639C-1W	235
NDTX102639CS-1W	226, 227, 229, 290, 326
NDTX102640Cb-1W	57, 165, 166, 169, 181, 290, 326
NDTX102643CAB-1W	57, 165, 166, 169, 181, 290, 326
NDTX102702C-1W	57, 166, 169, 181, 291, 326
NDTX102796Cb-2W	235
NDTX102796CbS-2W	96, 97, 99, 226, 227, 229, 291, 326
NDTX102816CAB-1W	235
NDTX102816CAB-2W	235
NDTX102816CABS-1W	226, 227, 229, 291, 326
NDTX102816CABS-2W	226, 228, 229, 291, 326
NDTX102852CB-3Ru	57, 165, 166, 169, 181, 292, 326
NDTX102852CB-4Ru	57, 166, 167, 169, 181, 292, 326
NDTX102903-6R/R	150, 151, 152, 292, 326
NDTX102921C-1W	58, 60, 181, 292, 326
NDTX113059-1W	57, 165, 167, 169, 181, 292, 327
NDTX113218C-2W	57, 166, 167, 169, 181, 293, 327

NDTX113218C-3W	57, 165, 166, 167, 168, 169, 181, 293, 327
NDTX113254-1R.....	198, 200, 206, 293, 327
NDTX113266C-1W	57, 166, 169, 181, 293, 327
NDTX113270-2W	235
NDTX113270-4W	235
NDTX113270S-2W.....	226, 227, 229, 294, 327
NDTX113270S-4W.....	228, 229, 294, 327
NDTX113277-1W	57, 166, 169, 181, 294, 327
NDTX113281B-1W	167, 169, 181, 294, 327
NDTX113438CB-1WRSPL	224, 225
NDTX113461-1Rpinto	224, 225
NDTX4784-7R.....	74, 75, 76, 198, 199, 200, 295, 327
NDTX5438-11R.....	4, 29, 30, 31, 129, 130, 131, 295, 327
Nectar	295, 312
NorDonna	312
Norgold-M	312
NorValley	312
OR05039-4	22, 24, 122, 123, 124, 295, 327
Oscar	312
Ottar	312
Pacific Russet.....	21, 22, 24, 122, 123, 124, 296, 312
Penta.....	312
Pimpernel.....	312
Platina	312
POR06V12-3.....	21, 24, 122, 123, 124, 296, 327
Premiere.....	310, 312
Primica Inta.....	312
Prince Hairy	312
Purple Majesty	50, 52, 150, 151, 152, 296, 312
Purple Peruvian	104, 105, 106, 236, 237, 238, 296, 312
Ranger Russet.....	21, 22, 24, 122, 123, 124, 297, 312
Red Gold	312
Red LaSoda.....	29, 31, 74, 76, 129, 130, 131, 198, 200, 297, 313
Rio Rojo	303, 304, 305, 313, 328

Rodeo.....	297, 313
Rosara	297, 313
Rose Gold.....	313
Russet Burbank.....	21, 22, 24, 122, 123, 124, 298, 313
Russet Legend.....	313
Russet Norkotah.....	viii, 1, 21, 22, 23, 24, 66, 67, 68, 69, 122, 123, 124, 182, 184, 186, 298, 305, 313
Russet Norkotah112.....	313
Russet Norkotah223.....	313
Russet Norkotah278.....	313
Russet Norkotah296.....	22, 24, 122, 124, 298, 313
Rutt.....	313
Saginaw Gold.....	313
Sangre	313
Sangre10	313
Sante	313
Satina.....	313
Shepody	21, 22, 24, 122, 123, 124, 298, 311, 313
Sierra Gold	43, 44, 45, 143, 144, 145, 299, 313
Sierra Rose.....	36, 37, 38, 81, 82, 83, 136, 138, 207, 208, 209, 299, 314
Smiley	299, 314
Snowden.....	314
Soraya	299, 314
Sprint.....	300, 314
Stampede Russet	66, 67, 69, 182, 184, 185, 186, 253, 300, 314, 316
Strobrawa	314
Super Red	259, 314, 318
Tebina	300, 314
TX08350-12Ru.....	66, 67, 69, 183, 184, 186, 300, 327
TX08351-5Ru.....	67, 69, 182, 183, 186, 301, 327
TX08352-5Ru.....	66, 67, 68, 69, 182, 183, 185, 187, 301, 327
TX08363-2R.....	74, 75, 76, 198, 301, 328
TX08375-3R.....	75, 76, 198, 199, 200, 301, 328
TX08385-1W/Y.....	301, 328
TX08385-1Y/Y.....	88, 89, 91, 216, 217, 219

TX09396-1W.....	4, 58, 59, 60, 165, 167, 169, 302, 328
TX09403-14W.....	4, 57, 58, 60, 166, 167, 169, 302, 328
TX09406S-1P/P	96, 97, 98, 99, 226, 227, 229, 302, 328
TX09420-1R/Y-R.....	207, 208, 209, 302, 328
TX09420-3R/Y.....	81, 83, 207, 208, 209, 303, 328
TX09429-1P/P.....	50, 51, 52, 150, 151, 152, 303, 328
TX10437-10P	74, 75, 76, 198, 199, 200, 206, 303, 328
TX11448-2R.....	74, 198, 199, 200, 206, 303, 328
TX11448-3R.....	74, 198, 199, 200, 206, 304, 328
TX11448-3R -	304, 328
TX11448-4R.....	235
TX11448S-4R.....	226, 228, 229, 304, 328
TX11458-1R/Y.....	81, 207, 208, 209, 304, 328
TX11458-2R/Y.....	81, 207, 208, 209, 304, 328
TX11458-3R/Y.....	81, 207, 208, 209, 305, 328
TX12471-1R/Y.....	215
TX12471-5W/Y.....	224, 225
TX12471-7R/Y.....	215
TX12471-8R/Y.....	215
TX12472-2R.....	215
TXA549-1Ru.....	21, 22, 24, 182, 183, 185, 186, 305
TXA549-1RU.....	329
TXNS410.....	67, 69, 184, 186, 305, 329
TXYG057	43, 45, 143, 144, 145, 305, 329
TXYG079.....	88, 89, 91, 216, 217, 219, 306, 329
Ukama.....	314
Urgenta	310, 314
US Blue.....	306, 314
Valisa.....	314
Viking.....	313, 314
Vivaldi.....	314
Vokal	314
Waneta	59, 60, 165, 166, 167, 169, 306, 314
White LaSoda.....	88, 89, 91, 216, 217, 219, 255, 306

Winema	265, 314, 319
WTX10638-2W/Y.....	216, 217, 219, 306, 329
WTX10640-2W.....	165, 167, 169, 307, 329
WTX10640-3W.....	165, 168, 169, 307, 329
WTX10646-2W.....	166, 168, 169, 307, 329
WTX10646-7W.....	165, 166, 169, 307, 329
WTX10666-5W.....	165, 168, 169, 308, 329
WTX10666-8W.....	165, 168, 169, 308, 329
Yellow Finn.....	314
Yukon Gold	viii, 43, 44, 45, 88, 89, 90, 91, 143, 144, 145, 216, 217, 219, 259, 305, 306, 308, 314, 318



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