Texas Potato Breeding Report 2007

Texas AgriLife - Research
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Texas A&M University

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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

AD = cross made in Aberdeen, Idaho and selected in California (Davis)

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

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

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

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

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

AOTX = cross made in Aberdeen, Idaho, 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

CS = Campbell Institute for Agricultural Research, Camden, New Jersey

AWN = cross made in Aberdeen, Idaho and selected in Washington

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

COO = cross made in Colorado and selected in Oregon

CORN = Colorado selections (strains) out of Russet Norkotah made by the Colorado program

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

LA = cross made and selected in Louisiana

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

MN = cross made and selected in Minnesota

MNTX = cross made in Minnesota and selected in Texas

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

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

ND = cross made and selected in North Dakota

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

NDC = cross made in North Dakota and selected in Colorado

NDD = cross made in North Dakota and selected in California (Davis)

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

PA = cross made and selected in Prosser, Washington

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

RZ = cross made and selected at the Potato Research Institute, Czech Republic

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

TXCR “numbers” = Texas selections (strains) out of Century Russet made by Texas program

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

WC = cross made in Washington and selected in Colorado

WD = cross made in Washington and selected in California (Davis)

WN = cross made in Washington and selected in North Dakota

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

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

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

Mission Statement

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

Impact Statement

Since the inception of the Texas Potato Breeding and Variety Development Program in 1973, 1,866,096 seedlings have been grown for selection in Texas, from which 8,373 original selections have been made. Twelve improved varieties have been developed/co-developed and/or released from this program. Virtually all of the russet potatoes grown in Texas in 2007 were to the improved Texas Russet Norkotah strains. When this program was initiated in 1973, the average yield of the summer crop in Texas was about 200 Cwt/A. In 2006, the average summer crop yield in Texas was reported to be 465 Cwt/A, the highest in the nation among 12 states with summer crop production. In addition, the farm gate value of the crop has grown from less than $20 million to more than $70 million, with an annual economic impact to the state in 2007 estimated to exceed $150 million. Of the new varieties developed/released in the US in the last 10 years, those released by the Texas program collectively ranked second in total seed acreage entered into certification in 2006.

Introduction

Program Summary

The Texas Potato Breeding and Variety Development Program used two locations in the 2007 growing season (Table 1). The first planting was near Springlake, Texas on 1 to 3 April and harvested on 22, 24, and 26 July, and 19 and 21 August. This location included eight replicated trials, six observation trials and first generation seedlings for selection. The second planting was near Dalhart, Texas on 24 and 25 April and harvested on 17 September and 1 October. Five replicated trials, a seed increase nursery, and first year seedlings for selection were planted at this site. The Texas program entered ten selections (ATTX98500-3P/Y, AOTX96265-2Ru, AOTX98137-1Ru, ATX97147-4Ru, ATX97232-1Ru, ATTX98453-6R, COTX94218-1R, COTX00104-7R, NDTX4784-7R, and TX1475-3W) in the Southwestern Regional Trials conducted in Texas, Colorado, and 2 sites in California. The Texas Program also had four entries in the Western Regional Russet Trial (AOTX95265-2ARu, AOTX95265-3Ru, AOTX95265-4Ru, and TXA549-1Ru), and two in the Western Regional Red/ Specialty Trial (ATTX961014-1R/Y and ATTX98500-2P/Y). These trials were conducted at multiple locations in 6 western states. Plant Variety Protection (PVP) is pending for TX1523-1Ru/Y (Sierra Gold™), Stampede Russet, and Rio Rojo. The major program expansion and emphasis in 2007 continued to involve virus testing, clean-up, and minituber multiplication of a large backlog of selected clones. A field day was held on 27 June at Springlake and was well attended.

Seedling program

In 2007 76,270 first year seedlings, resulting from 581 different parental combination or families (crosses), were grown for selection on the Barrett Farm (40,594) near Springlake and on the CSS Farm (35,676) near Dalhart. Three hundred and four original selections were made from this material (Figure 1).

The 2007 first year seedling tubers from Texas (6,561) were grown during the fall of 2006 at College Station, primarily from true seed crosses made in Lubbock, Texas. The remaining seedling tubers were provided by Rich Novy, Idaho (9,137), Isabel Vales, Oregon (15,784), David Holm, Colorado (19,978), and Susie Thompson, North Dakota (24,810). Dave Holm, Colorado also provided 1,271 mini tubers from advanced Texas selection for seed increase.

Table 1. Trial locations, name of trial, number of entries, and number of plots evaluated in 2007.

Springlake				**Dalhart**		
Trial	# of Entries	# of Plots		Trial	# of Entries	# of Plots
Southwest Regional Red	9	72		Texas Advanced Specialty Selections	64	300
Southwest Regional Specialty	7	56		06 Specialty Selection	92	92
Western Regional Red/Specialty	24	192		07 Specialty Mini-tubers	8	14
Texas Advanced Selection Specialty	33	264		Western Regional Chipping	9	72
Field Day Red	80	160		Texas Advanced Chipping Selections	17	136
Texas Advanced Selections Red	12	96		06 Chip Selection	17	17
Field Day Russets	77	154		07 Chip Mini-tubers	2	8
Southwest Regional Russets	9	72		Texas Advanced Red Selections	17	120
Western Regional Russets	25	200		06 Red Selection	29	29
Texas Advanced Selection Russets	19	152		07 Red Mini-tubers	7	28
Canadian Varity Observation	6	12		Texas Advanced Russet Selections	33	268
Plant Variety Protection	11	22		06 Russet Selection	46	46
Colored Flesh Observation	52	104		07 Russet Mini-tubers	7	14
Parents	16	32		**Total**	**348**	**1144**
Total	**380**	**1588**		**Total Entries and Plots**	**728**	**2732**

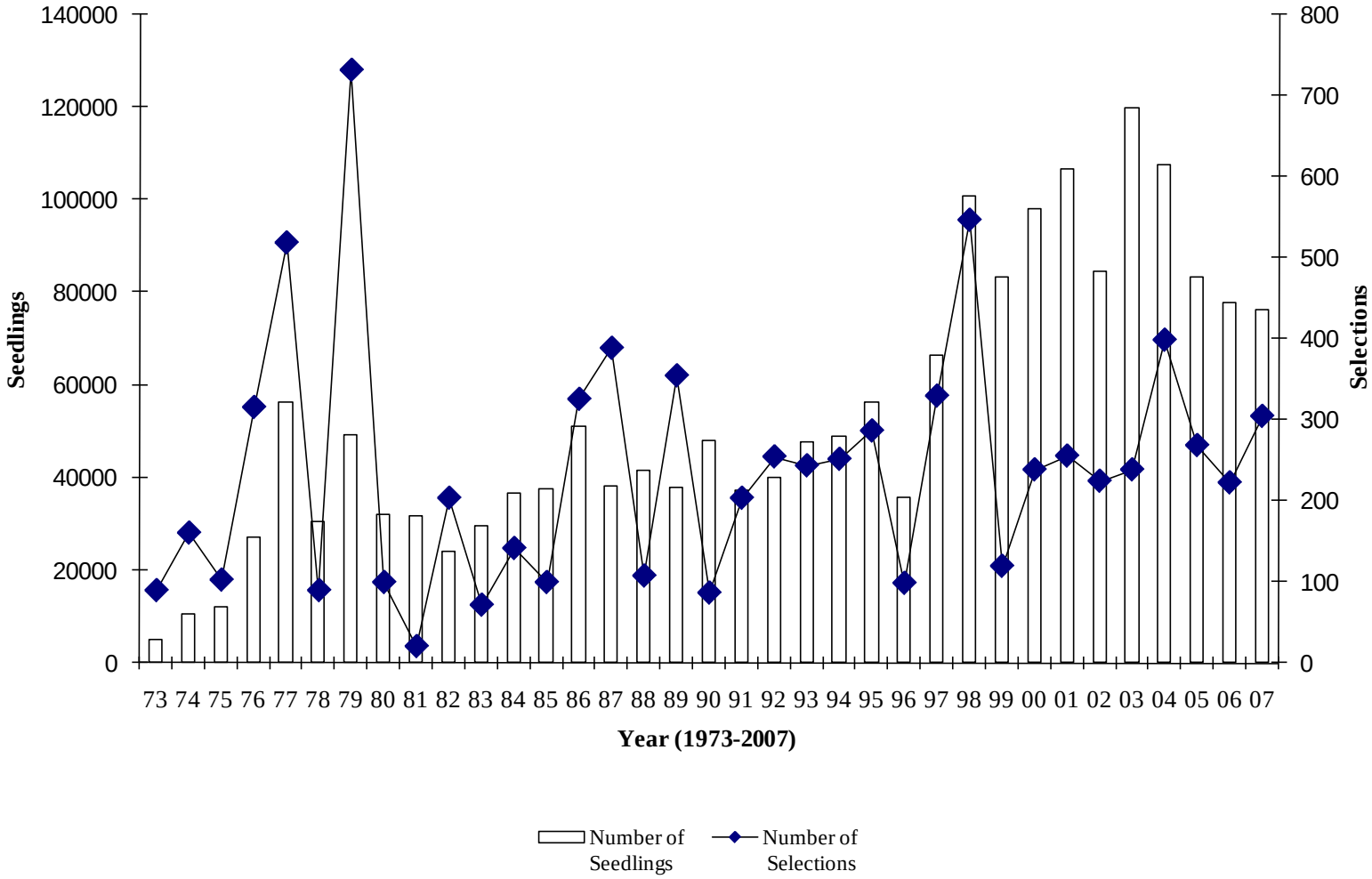

Figure. 1. Number of first year seedling tubers grown for original selection and number of selections made since the inception of the Texas Potato Variety Development Program.

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 380 advanced selections and varieties were tested in replicated and nonreplicated trials near Springlake, while 348 entries were evaluated near Dalhart (Table 1). A seed increase nursery was grown at the San Luis Valley Research Center, Center, Colorado, by Dr. David Holm.

Since 1973, 24,029 entries have been evaluated (Figure 2). Findings from the Texas Potato Breeding and Variety Development Program trials have resulted in the release of several improved varieties which have contributed significantly to the competitiveness, sustainability, and profitability of the Texas potato industry.

Results from the various trials are presented in chronological sequence in which they were planted/harvested, Springlake to Dalhart. Table A for each trial provides basic information regarding total yield and grade distribution of individual entries. Tables B, C, D, E, and F provide a more in-depth insight regarding variety characteristics. An Addendum is presented for each trial which describes cultural information. 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.

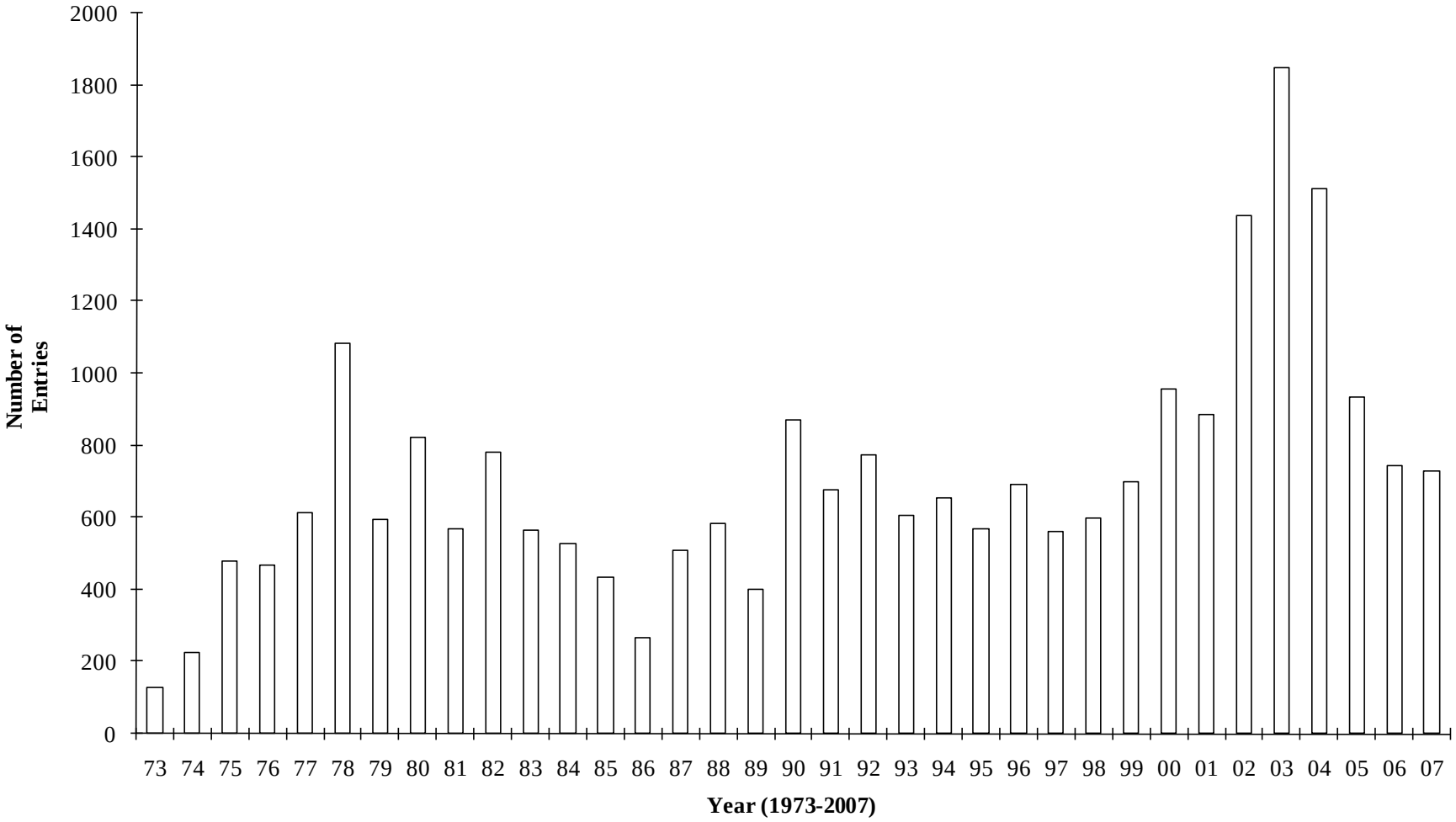

Figure 2. Number of varieties and advanced selections tested for their adaptability to Texas environmental conditions each since the inception of the Texas Potato Variety Development Program in 1973.

Springlake Trials, 2007

Summary of growing conditions:

The trials were planted near Springlake, Texas on 1 to 3 April and harvested on 22, 24, and 26 July, and 19, 21 August. These trials were subjected to higher than normal precipitation in the fourth week of May and the first week of August. Temperatures were lower than normal for the entire growing season.

Trials conducted:

- Field day (not reported)
- Western regional cooperative russet
- Western regional cooperative red/specialty
- Southwestern regional cooperative russet
- Southwestern regional cooperative red
- Southwestern regional cooperative specialty
- Texas advanced russet selection
- Texas advanced red selection
- Texas advanced specialty selection
- Miscellaneous observation nursery (not reported)

WESTERN REGIONAL COOPERATIVE RUSSET TRIAL

The Western Regional Trials were grown at 12 sites throughout the western United States as part of the WERA-27 project, with cooperators in California, Oregon, Washington, Idaho, Colorado, and Texas. The 2007 russet trial consisted of 20 entries, including the 4 check varieties Ranger Russet, Russet Norkotah, Russet Burbank, and Shepody. Five advanced Texas selections were added to the Springlake location.

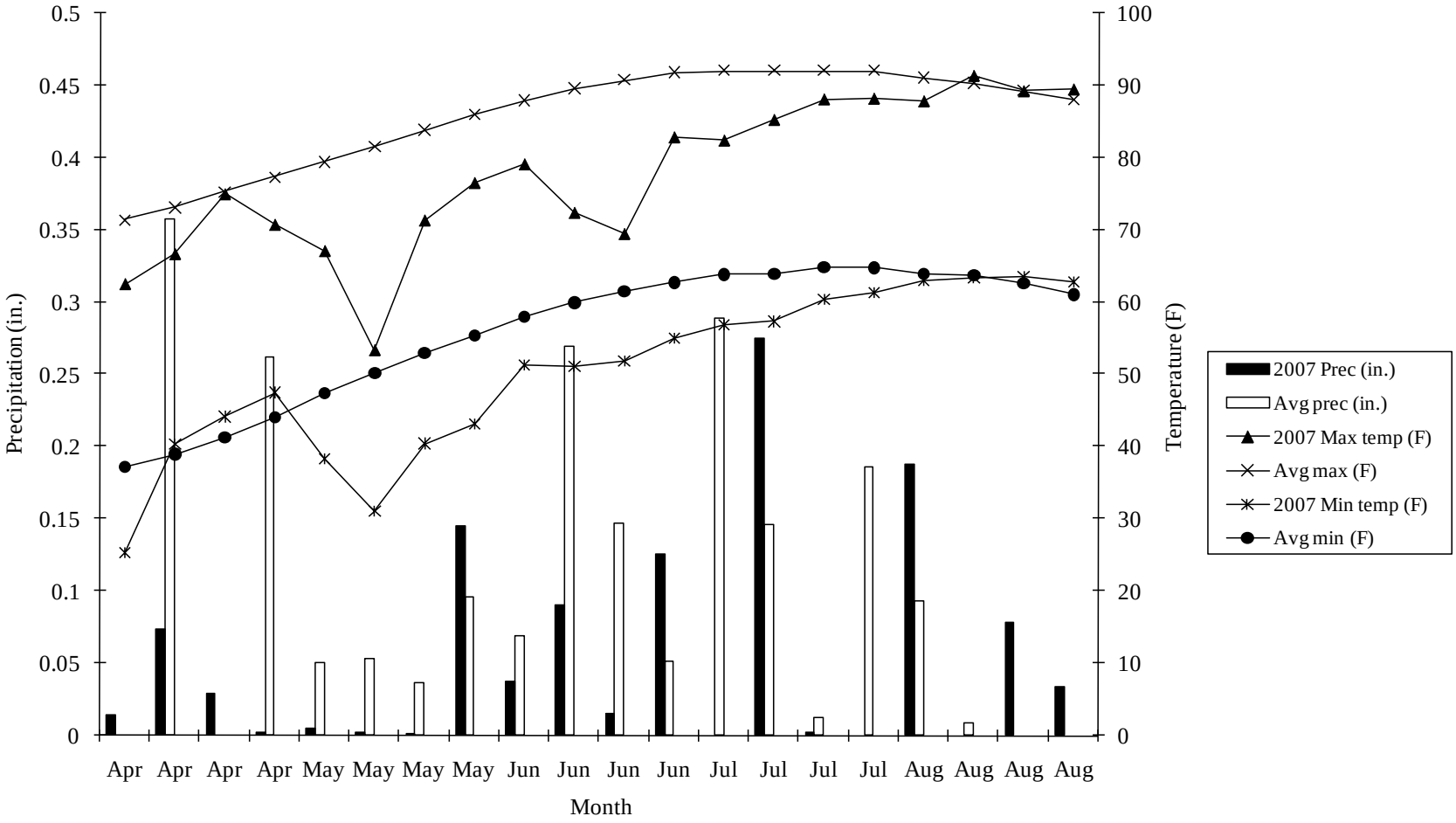

Figure 3. Weekly minimum/maximum temperatures and precipitation for the 2007 growing season near Sringlake, Texas compared to the average minimum/maximum temperatures and precipitation (1971-2000).

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

- The outstanding entries for this trial based on general rating and best of trial designations were AOTX95265-4Ru, Stampede Russet, Russet Norkotah, and TXA549-1Ru (Tables 1a and 1e).

- A95409-1 and TXCR-4Ru had the highest total and marketable yields (Table 1a)

- The clones with the highest yield of 4-6 oz. tubers were CO95172-3Ru and A97287-6 , while AOTX95265-3Ru and AOTX95265-4Ru had the highest yield of 6-10 oz. tubers. A95409-1 and TXCR-4R had the highest yield of 10-18 oz. tubers; while ATX84378-6Ru and TXCR-4Ru had the highest yield of over 18 oz. tubers. CO95172-3Ru and CO97087-2Ru had the highest yield of less than 4 oz. tubers. Russet Burbank and TXCR-4Ru had the highest yield of culls/No.2 tubers (Table 1a).

- Ranger Russet and Stampede Russet had the highest and second highest percent of marketable yield (Table 1b).

- ATX84378-6Ru and AOTX95265-4Ru had the highest and second highest percentage yield of over 18 oz. tubers. CO95172-3Ru and AC96052-1Ru had the highest and second highest percentage yield of less than 4 oz. tubers. Russet Burbank had the highest yield of cull/No. 2 tubers (Table 1a and Table 1b).

- The highest specific gravity was recorded for AO96141-3 and Shepody (Table 1b).

- CO95172-3RU and TXCR-2Ru had the highest average number of tubers per plant, while ATX84378-6Ru and ATX91137-1Ru had the lowest. TXCR-4Ru and ATX84378-6Ru had the highest average tuber weight, while AOA95154-1 and AOA95155-7 had the lowest (Table 1c).

- TXCR-4Ru and TXCR-2Ru were the latest maturing clones, while Russet Norkotah and Stampede Russet were the earliest maturing and had the highest percentage of dead vines at harvest (Table 1c).

- Shepody had 25 % vascular discoloration (Table 1d).

<u>Comments on entries:</u>

- A95409-1 Long Russet, pointed, pear shaped, rough, heavy set, large tuberslight Russet.
- A96104-2 Oblong Russet, pointed, pear shaped, small, nice shape.
- A97287-6 Oblong Russet, blocky, skinny, lenticels, poor shape+, pointed, rough.
- AC96052-1RU Oblong Russet, did not size, nice shape, small, shape?.
- AO96141-3 Long Russet, heat sprouts, small, skinny, pointed, drop, rough, 40% % ZC.
- AO96164-1 Oblong Russet, eye brows, pointed, poor shape, 10% % ZC, 20 tuber moth, drop.
- AOA95154-1 Oblong Russet, nice shape, nice flesh, blocky+, Rhizoctonia.
- AOA95155-7 Oblong Russet, nice shape, small, some raised eyes, blocky.

- AOTX95265-2ARu Oblong Russet, nice shape, nice.
- AOTX95265-3Ru Oblong-Long Russet, large tubers+, rough, tuber moth, 10% % ZC, nice flesh, BOT.
- AOTX95265-4Ru Oblong Russet, very large tubers, very nice skin and shape, blocky, 10% % ZC, BOT+.
- ATX84378-6Ru (TX) Long Russet, very large tubers, blocky.
- ATX91137-1Ru (TX) Oblong Russet, nice shape, blocky+, 30% % ZC.
- CO95172-3RU Oblong-Long Russet, yield+, rough, some pointed.
- CO97087-2RU Oblong-Long Russet, small, skinny, pointed, drop, poor shape.
- CO97138-3RU Oblong Russet, pointed, blocky, nice shape.
- CO97138-7RU Oblong Russet, light russet, flat, pointed, blocky.
- Ranger Russet Long Russet, skinny, pointed, rough.
- Russet Burbank Long Russet, ugly, rough, 30% % ZC, drop.
- Russet Norkotah Oblong Russet, BOT+++.
- Shepody Long Russet, blocky, lenticels, long, poor internals.
- Stampede Russet (TX) Oblong-Long Russet, BOT++, blocky.
- TXA549-1Ru Oblong Russet, BOT, blocky, Rhizoctonia, very nice, 10% % ZC, blocky.
- TXCR-2Ru (TX) Long Russet, large tubers, rough, knobs, pointed, 10% % ZC.
- TXCR-4Ru (TX) Long Russet, large, rough.

Summary:

Overall, the outstanding entries based on general rating and marketable yield were AOTX95265-4Ru, Stampede Russet, and TX549-1Ru.

WESTERN REGIONAL COOPERATIVE RED/SPECIALTY TRIAL

This trial consisted of 23 entries, including the check varieties Red LaSoda, Dark Red Norland, All Blue, and Yukon Gold.

Results for the **red skinned white flesh** clones were as follows: (Springlake Tables 2a, 2b, 2c, 2d, and 2e)

- CO98012-5R and NDA7985-1R received best of trial notations and high general ratings, while Red LaSoda also received a high general rating (Table 2a and Table 2e).
- Red LaSoda and Dark Red Norland produced the highest total yield, marketable yield, 6-10 oz. tubers, and 10-18 oz. tubers, while CO98012-5R and Red LaSoda had the highest yield of 4-6 oz. tubers (Table 2a).
- CO98012-5R and NDA7985-1R had the highest yield of less than 4 oz. tubers (Table 2a).
- Red LaSoda and Dark Red Norland had the highest percentage of marketable and 10-18 oz. tubers, while CO98012-5R and NDA7985-1R had the highest percentage of 4-6 oz. and less than 4 oz. tubers (Table 2b).
- CO98012-5R had the highest specific gravity (Table 2b).
- CO98012-5R and NDA7985-1R had the higher average number of tubers per plant. Red LaSoda and Dark Red Norland had the highest average tuber weight (Table 2c).
- CO98012-5R and Red LaSoda were later in maturity than Dark Red Norland and NDA7985-1R (Table 2c).
- Dark Red Norland and CO98012-5R had the best skin set (Table 2d).
- Red LaSoda and Dark Red Norland had high levels of hollow heart (Table 2d).
- All of the entries had low levels of internal defects (Table 2d).

Summary:

CO98012-5R and NDA7985-1R performed better than the check varieties.

Results for the **red skinned yellow flesh** clones were as follows: (Springlake Tables 2a, 2b, 2c, 2d, and 2e)

- ATTX961014-1R/Y received best of trial notation and the highest general rating (Table 2a).
- ATTX961014-1R/Y and CO97232-2R/Y produced the highest total and marketable yield, while CO97233-3R/Y and CO97232-1R/Y had the highest yield of 4-6 oz. tubers. ATTX961014-1R/Y and POR00PG4-1 had the highest yield of 6-10 oz. and 10-18 oz. tubers (Table 2a).
- AC97521-1R/Y and CO97232-2R/Y had the highest yield of less than 4 oz. tubers (Table 2a).
- ATTX961014-1R/Y and POR00PG4-1 had the highest percentage of marketable, 6-10 oz., and 10-18 oz. tubers, while CO97232-1R/Y and CO97233-3R/Y had the highest percentage of 4-6 oz. tubers. AC97521-1R/Y and ATTX98500-2P/Y had the higher percentage of less than 4 oz. tubers (Table 2b).

- ATTX961014-1R/Y, CO97232-1R/Y, and AC97521-1R/Y had the highest specific gravity (Table 2b).

- CO97233-3R/Y and AC97521-1R/Y had the higher average number of tubers per plant, while POR00PG4-1 and ATTX961014-1R/Y had the highest average tuber weight (Table 2c).

- ATTX98500-2P/Y, AC97521-1R/Y, CO97233-3R/Y, and POR00PG4-1 were later in maturity than CO97232-1R/Y, ATTX961014-1R/Y, and CO97232-2R/Y (Table 2c).

- POR00PG4-1 and CO97232-2R/Y had the darkest yellow flesh color (Table 2d).

- ATTX961014-1R/Y and ATTX98500-2P/Y had the best skin set, while CO97232-1R/Y and AC97521-1R/Y had the worst skin set (Table 2d).

- CO97232-2R/Y and AC97521-1R/Y had the highest percentage of hollow heart (Table 2d).

- All of the entries had low levels of internal defects (Table 2d).

Summary:

Overall, the outstanding entry based on general rating and marketable yield was ATTX961014-1R/Y.

Results for the **red skinned red flesh clones** were as follows: (Springlake Tables 2a, 2b, 2c, 2d, and 2e)

- POR01PG22-1 had the highest general rating (Table 2a).

- POR02PG5-1 and CO97222-1R/R produced the highest total yield, 6-10 oz., and 10-18 oz. tubers, while POR02PG5-1 and POR01PG20-12 produced the highest marketable yield. POR01PG20-12 and CO97226-2R/R produced the highest yield of 4-6 oz. tubers (Table 2a).

- CO97226-2R/R and CO97222-1R/R had the highest yield of less than 4 oz. (Table 2a).

- POR02PG5-1 and POR01PG20-12 had the highest percent marketable yield, while CO97226-2R/R and POR01PG22-1had the lowest percentage of marketable yield and highest percentage of less than 4 oz. tubers (Table 2b).

- POR01PG20-12 and CO97226-2R/R had the highest specific gravity (Table 2b).

- POR01PG22-1and CO97226-2R/R had the highest average number of tubers per plant and POR02PG5-1 and CO97222-1R/R had the highest average tuber weight (Table 2c).

- POR02PG5-1, POR01PG20-12, and POR01PG22-1 were later in maturity and had no dead vines at harvest (Table 2c).

- POR02PG5-1 had the darkest flesh color (Table 2d).

- POR01PG22-1 showed the most feathering (Table 2d).

Summary:

None of the red skinned red flesh clones appear to merit further evaluation.

Results for the **purple skinned purple flesh clones** were as follows: (Springlake Tables 2a, 2b, 2c, 2d, and 2e)

- POR01PG16-1 had the highest general rating (Table 2a).
- All Blue and CO97227-2P/PW had the highest total yield, while All Blue and POR01PG16-1 had the highest marketable yield and 6-10 oz. tubers (Table 2a).
- CO97227-2P/PW and CO97215-2P/P had highest yield of less than 4 oz. tubers (Table 2b).
- POR01PG16-1 and All Blue had the highest percentage of marketable yield and 6-10 oz. tubers, while CO97227-2P/PW and CO97215-2P/P had the highest percentage of less than 4 oz. tubers (Table 2b).
- All Blue had the highest specific gravity (Table 2b).
- CO97227-2P/PW and All Blue had the highest average number of tubers per plant, while All Blue and POR01PG12-1had the highest average tuber weight (Table 2c).
- POR01PG16-1 was earliest maturing entry (Table 2c).
- POR01PG16-1, CO97227-2P/PW, and CO97215-2P/P had darker flesh color than All Blue (Table 2d).

Summary:

POR01PG16-1 and CO97215-2P/P deserves further testing.

Results for the **white skinned yellow flesh clones** were as follows: (Springlake Tables 2a, 2b, 2c, 2d, and 2e)

- The outstanding entry based on general rating and best of trial notations was Yukon Gold (Table 2a and Table 2e).
- POR02PG37-2 and A96510-4Y had the highest total yield, while POR02PG37-2 and Yukon Gold had the highest marketable yield (Table 2a).
- A96510-4Y and Yukon Gold had the highest yield of greater than 6 oz. tubers, while POR02PG37-2 and POR02PG26-5 had the highest yield of less than 4 oz. tubers (Table 2a).
- Yukon Gold and A96510-4Y had the highest percentage of marketable yield and over 6 oz. tubers. (Table 2b).
- POR02PG37-2 and POR02PG-5 had the highest percentage of less than 4 oz. tubers (Table 2b).
- POR02PG37-2 and Yukon Gold had the highest specific gravity (Table 2b).

- POR02PG37-2 and POR02PG26-5 had the highest average number of tubers per plant, while A96510-4Y and Yukon Gold had the highest average tuber weight (Table 2c).

- The earliest maturing clones were Yukon Gold and POR02PG37-2, while A96510-4Y and POR02PG26-5 were later in maturity (Table 2c).

- A96510-4Y had the longest tubers, the most russet skin, the lightest flesh color, and the most feathering (Table 2d).

- None of the entries had significant levels of internal defects (Table 2d).

- Yukon Gold had the deepest yellow flesh color (Table 2d).

Summary:

None of these entries performed better than Yukon Gold.

Comments on entries:

Red/White Flesh

- CO98012-5R — Oblong Red, nice skin, shape and flesh, BOT, nice white flesh, small heavy set.
- Dark Red Norland — Oblong Red, rough, ugly.
- NDA7985-1R — Oblong Red, BOT, Rhizoctonia, very nice flesh, knobs on stem end.
- Red LaSoda — Oblong Red, rough, deep eyes.

Red/Yellow Flesh

- AC97521-1R/Y — Oblong Red, pointed to stem end+, poor shape, F=3.3.
- ATTX961014-1R/Y — Oblong Red, nice, smooth, smooth skin, variable shape, road map, oval shape, nose, good skin set, BOT+, F=3.2.
- ATTX98500-2P/Y — Round Purple, stem attachment, late+, drop, nice flesh, F=2.7.
- CO97232-1R/Y — Oblong Red, small, Rhizoctonia, some pointed, F=3.1.
- CO97232-2R/Y — Oblong Red, Rhizoctonia, poor skin, drop, poor internals, poor skin finish, silver scurf, faded color, F=3.8.
- CO97233-3R/Y — Oblong Red, pointed to stem end, road map, buff, pair shaped, drop+, F=3.4.
- POR00PG4-1 — Oblong Yellow/Red splash, heat sprouts, nice flesh color, poor internal, will oversize, red splash, rough, , knobs on stem end. F=3.9.

Red/Red Flesh

- CO97222-1R/R — Oblong Red, rough, poor internals, road map, poor skin finish, F=3.2.

- CO97226-2R/R Round Red, drop, small, road map+, poor skin+, F=3.1.
- POR01PG20-12 Oblong Red, pointed, rough, drop, feathering, F=3.
- POR01PG22-1 Long Red, fingerling, nice, heat sprouts, eye sprouts, F=3.3.
- POR02PG5-1 Round Red/Mottled, chip?, poor skin finish, road map++, poor shape, purple/white flesh, drop++, F=3.5.

Purple/Purple Flesh

- All Blue Long Purple, rough, pointed, purple/white flesh, F=3.5.
- CO97215-2P/P Oblong Purple, small, stem indentations, variable flesh color, F=4.5.
- CO97227-2P/PW Oblong Purple, parent, very dark flesh, small pointed, rough, poor shape, F=4.8.
- POR01PG16-1 Long Purple, better than All blue, pointed, F=4.3.

White/Yellow Flesh

- A96510-4Y Oblong, light russet skin, late, white flesh, some pointed to stem end, F=1.3.
- POR02PG26-5 Oblong Yellow-RE, pink splash, heat sprouts, Rhizoctonia, some pear shaped, F=2.7.
- POR02PG37-2 Oblong Yellow-RE, pointed to stem end, pink eyes, F=2.9.
- Yukon Gold Oblong White, BOT, very nice, F=3.

[1]F=-Flesh color intensity, 1=very light to 5=very dark purple or dark yellow

SOUTHWESTERN REGIONAL COOPERATIVE TRIALS

This is the ninth year for the Southwestern Regional Cooperative Trials, which in 2007 included Russet, Red, Chipping (conducted at Dalhart), and Specialty Trials. The Southwestern Regional Potato Research Consortium includes California, Colorado, and Texas. The objective is to evaluate promising advanced selections from the Texas and Colorado breeding programs. Entries that are successful in these trials are then graduated to the various Western Regional Trials.

SOUTHWESTERN REGIONAL COOPERATIVE RUSSET TRIAL

This trial consisted of eight entries including the check varieties Russet Norkotah, Russet Norkotah278, and Russet Norkotah-S3.

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

- The outstanding entries based on general rating and best of trial designation were AOTX96265-2Ru, Russet Norkotah278, and AOTX98137-1Ru, while Russet Norkotah also had a high general rating. Russet Norkotah-S3 also had a best of trial notation (Table 3a and Table 3e).

- Russet Norkotah278 and Russet Norkotak-S3 had the highest total yield and 10-18 oz. tubers, while Russet Norkotah-S3 and AOTX96265-2Ru had the highest marketable yield and 6-10 oz. tubers.

- CO98067-7RU and ATX97232-1Ru had the highest yield of less than 6 oz. tubers. Russet Norkotah278 had the highest yield of over 18 oz. tubers. ATX97147-4Ru had the highest yield of cull/No. 2 tubers (Table 3a).

- All of the entries had over 75 percent marketable yield (Table 3b).

- Russet Norkotah278 and ATX97147-4Ru had the highest percentage of over 10 oz tubers, while CO98067-7RU and ATX97232-1Ru had the highest percentage of less than 4 oz. tubers (Table 3b).

- ATX97232-1Ru and AOTX96265-2Ru had the highest specific gravity (Table 3b).

- Russet Norkotah-S3 and ATX97232-1Ru had the highest average number of tubers per plant. Russet Norkotah278 and AOTX96265-2Ru had the highest average tuber weight (Table 3c).

- Russet Norkotah-S3 and ATX97147-4Ru were the latest maturing entries, while Russet Norkotah, CO98067-7RU, and AOTX98137-1Ru were the earliest (Table 3c).

- ATX97232-1Ru had the worst feathering and the highest percentage of hollow heart (Table 3d).

<u>Comments on entries:</u>

- AOTX96265-2Ru Oblong Russet, BOT, blocky, yield+, large tubers, very nice, Shape, Rhizoctonia, DROP.

- AOTX98137-1Ru Oblong Russet, very nice+, BOT++.

- ATX97147-4Ru Oblong Russet, ugly, 10 % ZC, nice flesh, drop+, poor skin, poor shape, pointed, DROP.

- ATX97232-1Ru Oblong Russet, close set, hollow heart++, rough, Rhizoctonia, feathering, shape, DROP.

- CO98067-7RU Oblong Russet, rough, blocky, nice shape, poor shape, DROP.

- CO98368-2RU Oblong Russet, feathering, pointed, curved, nice internals, slender, DROP.

- Russet Norkotah Oblong Russet, very nice, nice, BOT.

- Russet Norkotah278 Oblong Russet, yield+, large tubers, some curved, BOT+++, Rhizoctonia.
- Russet Norkotah-S3 Oblong Russet, rough, pointed, 10 % ZC, nice, Rhizoctonia, BOT, small.

Summary:

Russet Norkotah and Russet Norkotah278 were the outstanding entries. AOTX98137-1Ru deserves further evaluation.

SOUTHWESTERN REGIONAL COOPERATIVE RED TRIAL

The Southwestern Regional Cooperative Red Trial consisted of 9 entries, including the check varieties Red LaSoda and Dark Red Norland.

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

- The outstanding entry based on general rating and best of trial designation was ATTX98453-6R, while Red LaSoda and CO99076-6R also received the high general ratings (Tables 4a and 4e).
- Dark Red Norland and Red LaSoda had the highest total yield, marketable yield, and 6-10 oz. tubers, while CO99256-2R and Red LaSoda had the highest yield of 4-6 oz. tubers. Red LaSoda and ATTX98453-6R had the highest yield of 10-18 oz. tubers, while COTX94218-1R and CO99256-2R had the highest yield of less than 4 oz. tubers (Table 4a).
- Red LaSoda, Dark Red Norland, ATTX98453-6R, NDTX4784-7R, and COTX00104-7R had over 82 percent of marketable yield, while CO99256-2R and COTX00104-7R had the highest percentage of 4-6 oz. tubers. Dark Red Norland and Red LaSoda had the highest percentage of 6-10 oz., while ATTX98453-6R and Red LaSoda had the highest percentage of 10-18 oz. tubers. COTX94218-1R and CO99256-3R had the highest percentage of less than 4 oz. tubers (Table 4b).
- ATTX98453-6R and CO99076-6R had the highest specific gravity (Table 4b).
- COTX94218-1R and CO99256-2R had the highest average number of tubers per plant, while ATTX98453-6R and Dark Red Norland had the highest tuber weight. COTX94218-1R, CO99256-3R, and Red LaSoda were late in maturity, while Dark Red Norland and CO99076-6R were the earliest in maturity (Table 4c).
- Dark Red Norland, NDTX4784-7R, and COTX00104-7R had good skin set, while CO99076-6R had the worst (Table 4d).
- Red LaSoda had 10 percent hollow heart (Table 4d).
- All of the entries had good internal qualities (Table 4d).

Comments on entries:

- ATTX98453-6R Round Red, nice flesh, keep, advance to WRD, BOT, Rhizoctonia, good skin color.
- CO99076-6R Round Red
- CO99256-2R Oblong Red, nice flesh, poor shape, small, Rhizoctonia, lenticels, drop.
- CO99256-3R Oblong Red, nose, LaSoda like, drop+, small, rough, poor shape, late, stem attachment.
- COTX00104-7R Oblong Red, low yield, Rhizoctonia, russeting, drop+, poor shape, rough.
- COTX94218-1R Round Red, keep, uniform size, B size tuber, heavy set, nice flesh, Rhizoctonia, boiler.
- Dark Red Norland Oblong Red, variable size, poor faded color, rough, ugly.
- NDTX4784-7R Round Red, very nice flesh++, nice skin color.
- Red LaSoda Oblong Red, rough, deep eyes.

Summary:

ATTX98453-6R performed well and should be advanced to the Western Region Trial. NDTX4784-7R and COTX94218-1R deserve further evaluation.

SOUTHWESTERN REGIONAL COOPERATIVE SPECIALTY TRIAL

The Southwestern Regional Cooperative Specialty Trial consisted of 7 entries, including the check varieties Yukon Gold and All Blue.

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

- Yukon Gold and CO99045-1W/Y were the outstanding entries based on best of trial notations and general rating (Table 5a).
- Yukon Gold and CO99045-1W/Y had the highest total yield, marketable yield, 4-6 oz., and 6-10 oz. tubers, while Yukon Gold and AC99329-7RW/Y had the highest yield of 10-18 oz. tubers. AC99330-1P/Y and All Blue had the highest yield of less than 4 oz. tubers (Table 5a).

- Yukon Gold, CO99045-1W/Y, AC99329-7RW/Y, and ATTX98500-3P/Y had over 80 percent of marketable yield, while CO99338-3RU/Y and AC99330-1P/Y had the highest percentage of 4-6 oz. tubers. CO99045-1W/Y and ATTX98500-3P/Y had the highest percentage of 6-10 oz. tubers, while Yukon Gold and AC99329-7RW/Y had the highest percentage of 10-18 oz. tubers. AC99330-1P/Y and All Blue had the highest percentage of less than 4 oz. tubers (Table 5b).

- Yukon Gold and CO99045-1W/Y had the highest specific gravity (Table 5b).

- All Blue and AC99330-1P/Y had the highest average number of tubers per plant, while Yukon Gold and AC99329-7RW/Y had the highest average tuber weight (Table 5c).

- All Blue and AC99330-1P/Y were the latest in maturity, while CO99338-3RU/Y and Yukon Gold were the earliest in maturity (Table 5c).

- ATTX98500-3P/Y, CO99338-3RU/Y, and AC99330-1P/Y had darker yellow flesh color than Yukon Gold (Table 5d).

- AC99329-7RW/Y had 25 percent hollow heart, while CO99338-3RU/Y had 35 percent internal brownspot (Table 5d).

Comments on entries:

- AC99329-7RW/Y Round Red, pinto, deep eyes, rough, heat sprouts.

- AC99330-1P/Y Round Purple, lenticels++, rough, small tubers, ugly.

- All Blue Long Purple, heat sprouts, rough, blue with white pith.

- ATTX98500-3P/Y Oblong Purple, pointed to stem end, poor shape, flat, pinto, nice flesh.

- CO99045-1W/Y Long White, nice, rough, light fine russet skin, some pointed, BOT of CO entries.

- CO99338-3RU/Y Oval Russet, small, light skin russet, poor internals.

- Yukon Gold Oblong White, nice, BOT.

Summary:

Yukon Gold and CO99045-1W/Y were the outstanding entries.

OUTSTANDING TEXAS ADVANCED RUSSET SELECTIONS, 2007

Overall Summary - Springlake and Dalhart: The Texas Advanced Russet Selection Trial at Springlake included 20 entries, with 33 entries planted at Dalhart. Russet Norkotah, Russet Norkotah278, and Russet Norkotah296 were the check varieties for both locations. Based on both trials the following entries AOTX02060-1Ru, AOTX02066-1Ru, AOTX02136-1Ru, AOTX95265-1Ru, AOTX95265-2ARu**,** AOTX95265-3Ru**,** AOTX95265-4Ru**,** AOTX95269-1Ru, AOTX95295-1Ru, AOTX95295-3Ru, AOTX96084-1Ru, AOTX96208-1Ru, AOTX96216-2Ru, AOTX98096-1Ru, AOTX98137-1Ru, AOTX99008-1Ru, AOTX99194-1Ru, ATX03003-1Ru, ATX03003-7Ru, ATX03068-1Ru, ATX03077-2Ru, ATX03424-1Ru, ATX84378-6Ru, ATX91137-1Ru, ATX9332-12Ru, ATX99194-3Ru, NDTX8773-4Ru, TXA549-1Ru**,** TXCR-2Ru, TXCR-4Ru, TXNS410, TXNS551, Russet Nork 278**,** Russet Nork 296**,** and AOTX02136-1Ru will be re-evaluated in the 2008 season.

TEXAS ADVANCED RUSSET SELECTION TRIAL

This russet trial consisted of 20 entries including the check varieties Russet Norkotah, Russet Norkotah278, and Russet Norkotah296.

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

- Russet Norkotah278, Russet Norkotah296, Russet Norkotah, AOTX95295-3Ru, and AOTX98096-1Ru were the outstanding entries based on general rating and best of trial designations. AOTX95295-1Ru and AOTX95265-1Ru also received best of trial designations, while AOTX02066-1Ru, AOTX02060-1Ru, and AOTX02136-1Ru received high general ratings (Tables 6a and 6e).

- Russet Norkotah278 and Russet Norkotah296 had the highest total yield, while Russet Norkotah278 and COTX03261-1Ru had the highest yield of marketable and 4-6 oz. tubers. COTX03261-1Ru and Russet Norkotah296 had the highest yield of 6-10 oz. tubers Russet Norkotah278 and COTX03285-4Ru had the highest yield of 10-18 oz. tubers (Table 6a).

- COTX03285-4Ru had the highest yield of over 18 oz. tubers, while COTX03261-1Ru and Russet Norkotah296 had the highest yield of less than 4 oz. tubers (Table 6a).

- AOTX03096-1Ru and Russet Norkotah278 had the highest yield of culls/No. 2 tubers (Table 6a).

- All of the entries had over 70 percent of marketable yield, while AOTX02066-1Ru had the highest percentage of marketable yield (Table 6b).

- AOTX02136-1Ru and AOTX96084-1Ru had the highest percentage of 4-6 oz. tubers, while ATX02014-1Ru and AOTX96075-1Ru had the highest percentage of 6-10 oz tubers. COTX03285-4Ru and AOTX03096-1Ru had the highest percentage of 10-18 oz. tubers (Table 6b).

- COTX03285-4Ru had the highest percentage of over 18 oz. tubers, while AOTX95295-3Ru and AOTX96084-1Ru had the highest percentage of less than 4 oz. tubers. AOTX03096-1Ru had the highest percentage of culls/No.2 tubers (Table 6b).

- AOTX95265-1Ru and AOTX03134-1Ru had the highest specific gravity (Table 6b).

- COTX03261-1Ru and Russet Norkotah296 had the highest average number of tubers per plant, while AOTX02136-1Ru and AOTX96084-1Ru had the lowest. COTX03285-4Ru and AOTX03096-1Ru had the highest average tuber weight, while AOTX02136-1Ru and AOTX96084-1Ru had the lowest (Table 6c).

- AOTX03096-1Ru was the latest in maturity, while Russet Norkotah, AOTX95295-3Ru, and AOTX95265-1Ru were the earliest in maturity (Table 6c).

- AOTX03134-1Ru had 15 percent hollow heart (Table 6d).

Comments on entries:

- AOTX02060-1Ru Oblong Russet, 40% ZC, nice shape and skin, blocky.

- AOTX02066-1Ru Oblong Russet, keep?, eye brows, too blocky, poor skin, rough.

- AOTX02136-1Ru Oblong Russet

- AOTX03096-1Ru Oblong Russet, 20% ZC, light russet skin, nice shape, large tubers, raised eyes, rough.

- AOTX03134-1Ru Oblong Russet, rot+, 10% ZC, skinny, rough, pointed+, light russet skin, drop++.

- AOTX95265-1Ru Oblong Russet, low yield, small, 10% ZC, nice shape, some rot.

- AOTX95269-1Ru Oblong Russet, 20% ZC, nice shape, rough.

- AOTX95295-1Ru Oblong Russet, TC, 10% ZC, very nice+, nice.

- AOTX95295-3Ru Oblong Russet, nice shape, heavy set, small, nice skin.

- AOTX96075-1Ru Oblong Russet, rot, small, some pointed.

- AOTX96084-1Ru Oblong Russet, nice shape, nice flesh.

- AOTX96208-1Ru Oblong Russet, rough, nice small.

- AOTX96216-2Ru Oblong Russet, very nice, small+.

- AOTX98096-1Ru Oblong Russet BOT, very nice shape and skin++

- ATX02014-1Ru Oblong Russet, drop, low yield, small, nice shape, raised eyes.

- COTX03261-1Ru Oblong Russet, heavy set, blocky, light russet skin.

- COTX03285-4Ru Oblong Russet, very large tubers, no hollow heart on over 18 oz. tubers, growth cracks on small tubers.

- Russet Norkotah Oblong Russet, BOT+++.
- Russet Norkotah278 Oblong Russet, 10% ZC, BOT, large tubers, very nice.
- Russet Norkotah296 Oblong Russet, rough, large tubers, BOT+.

Summary:

Russet Norkotah, Russet Norkotah278, Russet Norkotah296, COTX03261-1Ru, AOTX95295-1Ru, and AOTX95295-3Ru were the outstanding entries in this trial.

OUTSTANDING TEXAS ADVANCED RED SELECTIONS, 2007

Overall Summary - Springlake and Dalhart: The Texas Advanced Red Selection Trials had 12 entries at Springlake and 17 at Dalhart. Red LaSoda was the check variety for both locations. Based on both trials, the following entries AOTX91861-4R, AOTX93483-1R, ATTX98453-6R, BTX2332-1R, COTX04340-1R, COTX94218-1R, COTX94216-1R, NDTX039190-1R, NDTX059845-1R, NDTX059695-1R, NDTX4271-5R, NDTX4784-7R, NDTX4847-7R, NDTX731-1R, NDTX7590-3R, Rio Rojo, NDTX059827-1R, NDTX5003-2R, and NDTX5438-11R will be re-evaluated in the 2008 season.

TEXAS ADVANCED RED SELECTION TRIAL

This trial consisted of 12 entries including the check variety Red LaSoda. With the exception of Red LaSoda, NDTX4271-1R, and Rio Rojo all seed came from Dalhart.

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

- The outstanding entries based on general rating and best of trial designations were Rio Rojo and NDTX4271-5R. Red LaSoda also received a high general rating (Tables 7a and 7e).
- Rio Rojo and Red LaSoda had the highest total yield, marketable yield, and 6-10 oz. tubers (Table 7a).
- ATX00270-2R and Rio Rojo had the highest yield of 4-6 oz. tubers, while Red LaSoda and NDTX4271-5R had the highest yield of 10-18 oz. tubers, while NDTX039190-1R had the highest yield of over 18 oz. tubers (Table 7a).
- ATX00270-2R and COTX00411-4R had the highest yield of less than 4 oz tubers (Table 7a).
- Red LaSoda and NDTX4271-5R had the highest percentage of marketable yield, 6-10 oz., and 10-18 oz. tubers, while ATX00270-2R and NDTX049349-12R had the highest percentage of 4-6 oz. tubers (Table 7b).

- COTX00411-4R and NDTX049349-12R had the highest percentage of less than 4 oz. tubers (Table 7b).
- COTX00411-4R and NDTX049349-12R had the highest specific gravity (Table 7b).
- NDTX039190-1R had the highest average number of tubers per plant, while NDTX049349-12R had the lowest. NDTX4271-5R and NDTX039190-1R had the highest average tuber weight, while COTX00411-4R had the lowest (Table 7c).
- ATX00270-2R and Rio Rojo were the latest maturing, while NDTX731-1R and COTX00411-4R were the earliest maturing (Table 7c).
- ATX00270-2R and NDTX731-1R had the least amount of feathering (Table 7d).

Comments on entries:

- ATX00270-2R Round Red, low yield, poor skin finish, drop, small, road map+, nice flesh, Rhizoctonia, smooth, good skin set.
- BTX2332-1R Round Red, Keep+, smooth, oval, TC, nice flesh, small, light set.
- COTX00411-4R Oblong Red, silver scurf, small, very nice flesh, lenticels, poor shape, drop.
- COTX02172-1R Oblong Red, keep?, heat sprouts, nice flesh, drop?, stem indentations, low yield.
- COTX03254-2R Oblong Red, drop
- NDTX039190-1R Round Red, close set, oversize, early, TC, keep.
- NDTX049349-12R Oblong Red, poor shape, drop+, low yield, small.
- NDTX4271-5R Round Red, nice, can oversize, Rhizoctonia, BOT.
- NDTX4847-7R Round Red, low yield, oval, nice, stem indentation, nice flesh.
- NDTX731-1R Round Red, drop+, stem indentation, low yield, rough, deep nose.
- Red LaSoda Oblong Red, stem indentation, nose, nice flesh.
- Rio Rojo Oblong Red, some road map, nice flesh, BOT, smooth, light set, flat.

Summary:

Outstanding entries included Rio Rojo and NDTX4271-5R.

OUTSTANDING TEXAS ADVANCED SPECIALTY SELECTIONS, 2007

The Texas Advanced Specialty Selection Trials at Springlake included 35 entries and 32 at Dalhart. Yukon Gold and All Blue were the check varieties for both locations. Based on both trials, the following entries will be tested again in 2008: ATTX961014-1R/Y, ATTX98444-16R/Y, ATTX98462-3R/Y, ATTX98468-5R/Y, ATTX98500-2P/Y, ATTX98500-3PW/Y**,** ATTX99325-1P, ATX02263-1R/Y, BTX1544-2W/Y , BTX1749-1W/Y, COTX03025-2P/P, COTX03039-1R/Y, COTX03079-1W/Y, COTX03187-1W, COTX04015-3W/Y, COTX04050-1P/P, COTX04056-4P/P, COTX04096-1R/Y, NDTX049265-2WRSP/Y, NDTX059759-3P, NDTX059775-1W/Y, NDTX4756-1R/Y, PTTX05PG07-1W, TX04212-1R/Y, TX1523-1Ru/Y, TX1674-1W/Y, TXYG105**,** TXYG107**,** TXYG55**,** TXYG57**,** TXYG79**,** TXYG98 Yukon Gold, ATTX00289-6Y/Y, ATX03491-1R/Y, ATX03496-3Y/Y, COTX03119-1R/R, COTX04188-3R/Y, COTX04193-2R/Y, COTX04267-1R/Y, COTX04303-1R/Y, COTX04303-3R/Y, NDTX059759-1Pinto/Y, NDTX059886-1Y/Y, PTTX05PG07-1W, PTTX05PG11-2R/Y, TX04237-6Y/Y, TX04239-2R/Y, CO111f2-1P/P, and All Blue. Also, the following specialty colored flesh lines from Wisconsin will be tested in 2008: 00-30044-10, 00-3038-4, 01-1131-4, 04-3310-1~~,~~ 04-3311-4, 04-3315-1, 06-30155, 06-30157, 06-3124, 93-1285-6, 94-10754-3, 94-10800-1, 94-4386-5, 97-5670-12, 99-30028-8, AH57-73, and AH95-51. .

TEXAS ADVANCED SPECIALTY SELECTION TRIAL

This specialty trial consisted of 35 entries including the check varieties Yukon Gold and All Blue. With the exception of Yukon Gold, All Blue, TX1523-1Ru/Y, and BTX1544-2W/Y all seed came from Dalhart

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

- The entries receiving the highest general ratings and best of trial designations were COTX03079-1W/Y, BTX1544-2W/Y, ATTX98468-5R/Y, TX1523-1Ru/Y, COTX03187-1W, and NDTX4756-1R/Y, while Yukon Gold and ATTX98444-16R/Y received only best of trial designations. TX03185-1R/R had a high general rating (Tables 8a and 8e).

- COTX03079-1W/Y and COTX04015-3W/Y had the highest total yield, marketable yield, 6-10 oz., and 10-18 oz. tubers (Table 8a)

- ATTX98468-5R/Y and COTX04050-1P/P had the highest yield of 4-6 oz. tubers, while COTX0450-1P/P and All Blue had the highest yield of less than 4 oz. tubers (Table 8a).

- Yukon Gold and TX1523-1Ru/Y had the highest percentage of marketable yield, while PTTX05PG07-3R/R and PTTX05PG06-2R/R had the highest percentage of 4-6 oz. tubers (Table 8b).

- TX1523-1Ru/Y and COTX03094-1R/Y-R had the highest percentage of 6-10 oz. tubers, while Yukon Gold and TX1523-1Ru/Y had the highest percentage of 10-18 oz. tubers (Table 8b).

- PTTX05PG11-2R/Y and COTX03137-2R/R had the highest percentage of less than 4 oz. tubers (Table 8b).

- COTX04050-1P/P and COTX03094-1R/R-Y had the highest average tubers per plant, while TX1523-1Ru/Y had the lowest. Yukon Gold, TX1523-1Ru/Y, and COTX04015-3W/Y had the highest average tuber weight, while PTTX05PG11-2R/Y had the lowest (Table 8c).

- COTX04015-3W/Y, COTX03094-1R/Y-R, COTX04050-1P/P, PTTX05PG07-3R/R, All Blue, PTTX05PG06-2R/R, PTTX05PG06-1R/R, and PTTX05PG11-2R/Y were the latest maturing entries, while ATTX98468-5R/Y, BTX1749-1W/Y, ATTX99325-1P, ATTX98491-4YRsplash/Y, and ATTX98462-3R/Y were the earliest (Table 8c).

- COTX04015-3W/Y, ATTX98491-4YRsplaqsh/Y, and UMTX383-3WRE/Y had the darkest yellow flesh color of the white skinned yellow flesh entries, while COTX04050-1P/P and COTX03047-1P/P had the darkest purple flesh color of the purple skinned purple flesh entries. ATTX98444-16R/Y and ATTX98468-5R/Y had the darkest yellow flesh of the red skinned yellow flesh entries (Table 8d).

- Yukon Gold, ATTX961014-1AR/Y, All Blue, NDTX4756-1R/Y, COTX03047-1P/P, ATTX98491-4YRsplash, ATTX98462-3R/Y, PTTX05PG07-1W, PTTX05PG11-2R/Y had the best ratings for feathering, while COTX04015-3W/Y, ATTX98468-5R/Y, and ATTX99325-1P had the worst ratings for feathering (Table 8d).

- BTX1544-2W/Y had 15 percent hollow heart (Table 8d).

Comments on entries:

- All Blue Long Purple, heat sprouts, rough, blue with white pith, F=3.
- ATTX961014-1AR/Y Oblong Red, keep, nice flesh, F=3.
- ATTX98444-16R/Y Oblong Red, Ok, nice, keep, BOT, Check TC, F=3.7.
- ATTX98462-3R/Y Oblong Red, smooth, keep, drop?, weird tuber shape, nice flesh, F=3.
- ATTX98468-5R/Y Oblong Red, check TC, BOT, depression at stem end, F=3.3.
- ATTX98491-4YRsplash/Y Round Red-SPL, low yield, red splash, keep, boiler, F=3.7.
- ATTX99325-1P Oblong Purple, smother, nice, keep+, poor skin set, very nice, F=1.
- ATX9132-2W/Y Drop
- BTX1544-2W/Y Oblong White, Rhizoctonia, F=3.
- BTX1749-1W/Y Oblong White, yield, F=2.9.
- COTX03025-1P/P Oblong Purple, road map, poor skin finish, drop, All Blue flesh but darker, F=3.6
- COTX03025-2P/P Round Purple, smooth, round, road map, keep for flesh, poor skin finish, F=4.
- COTX03047-1P/P Long Purple, fingerling, ugly, some raised eyes, rough, keep, F=4.5.

- COTX03079-1W/Y Oblong White, yield+, pointed to stem end, check TC, keep+, BOT, feathering, F=3.
- COTX03094-1R/Y-R Long Red, keep, large tubers are ugly, fingerling, pointed, F=3.
- COTX03119-1R/R Long Red, fingerling, low yield, smooth, keep, F=3.5.
- COTX03137-1P/P Long Purple, fingerling, rough, drop, keep?, pointed, eye brows, F=4.
- COTX03137-2R/R Long Red, fingerling, small did not size, rough, keep, F=3.5.
- COTX03187-1W Long White, fingerling, keep, nice, TC, nice shape and yield, BOT, F=1.
- COTX04015-3W/Y Oblong White, keep, TC, nice yield, flat, pointed, F=3.3.
- COTX04050-1P/P Oblong Purple, yield, nice skin, drop (heat sprouts), heat sprout++, F=4.6.
- NDTX4756-1R/Y Oblong Red, keep, sliver scurf, BOT+, F=2.8.
- PORTX03PG25-2R/P Long Red, fingerling, rough, keep?, F=3.5.
- PTTX05PG06-1R/R Long Red, fingerling, pointed, curved, light red flesh, hard, russeting, knobs, drop++, heat sprouts, F=2.
- PTTX05PG06-2R/R Long Red, fingerling, bad heat sprouts++, nice shape, drop++++, F=2.7.
- PTTX05PG07-1W Long White, fingerling, smooth, keep+, TC, pointed, curved, F=1.
- PTTX05PG07-2P/R Long Purple, curved, poor skin finish+, road map, nice internals, drop+, F=3.
- PTTX05PG07-3R/R Long Red, fingerling, rough, drop?, keep+, F=2.7.
- PTTX05PG11-2R/Y Long Red, fingerling, low yield, nice flesh, keep+, F=3.6.
- TX03185-1R/R Oblong Red, some pointed, red flesh with yellow pith, road map, yield+, keep+, F=3.6.
- TX03198-2Y-R/Y Oblong Yellow-Red, smooth, red eyes, keep, lenticels, raised eyes, F=2.7.
- TX1523-1Ru/Y Oblong Russet, very nice, BOT, feathering, light set, F=2.9.
- TX1674-1W/Y Oblong White, red eyes, flat, smooth, F=2.7.
- UMTX383-3WRE/Y Oblong White-RE, red splash, keep, F=3.3.
- Yukon Gold Oblong White, nice, BOT, F=2.8.

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

Summary:

Based on all factors the outstanding entries for this trial were COTX03079-1W/Y, COTX04015-3W/Y, Yukon Gold, BTX1544-2W/Y, ATTX98468-5R/Y, and TX1523-1Ru/Y.

Springlake Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 25 entries in the Western Regional Russet
Table 1a. Trial grown near Springlake, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre							General Rating[1] Grading Lubb	General Rating[1] Grading CS
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz.	Under 4 oz.	Culls/ No.2		
A95409-1	549.9	450.5	65.7	154.4	230.4	33.0	48.4	18.0	3.5	2.5
TXCR-4Ru(TX)	585.2	449.4	53.9	122.2	273.3	62.9	48.9	24.0	2.4	3.0
TXCR-2Ru(TX)	547.4	438.0	75.0	142.8	220.2	41.1	55.7	12.6	2.4	3.0
AO96164-1	496.3	425.6	97.5	148.3	179.8	0.0	48.4	22.3	2.9	3.0
CO97138-7RU	482.6	423.2	81.6	159.7	181.8	23.5	34.3	1.6	3.5	2.5
AOTX95265-3Ru	484.9	391.1	67.1	173.8	150.3	41.8	50.0	1.9	3.5	3.5
Ranger Russet	426.4	378.9	93.9	121.0	164.0	13.5	31.5	2.6	2.4	3.5
AOTX95265-2ARu	425.1	367.8	69.5	143.1	155.2	10.2	45.3	1.7	3.7	4.5
Shepody	434.0	366.1	60.7	146.6	158.9	10.9	37.3	19.7	3.3	3.0
AOTX95265-4Ru	462.0	358.4	66.0	165.4	127.0	61.4	36.5	5.7	4.4	4.5
Stampede Russet(TX)	404.2	356.5	57.6	135.5	163.4	20.1	26.0	1.6	4.4	4.0
A97287-6	408.6	352.2	99.6	138.5	114.1	2.2	50.9	3.3	2.9	3.0
Russet Norkotah	392.4	317.8	63.8	115.7	138.3	17.5	54.9	2.2	4.0	4.5
CO95172-3RU	417.5	317.0	86.8	118.6	111.7	2.2	98.2	0.0	3.2	2.0
CO97087-2RU	385.1	304.4	102.7	152.5	49.3	0.0	78.1	2.6	2.2	2.0
ATX84378-6Ru (TX)	399.4	268.5	32.5	97.0	139.0	97.8	13.1	19.9	4.1	3.5
TXA549-1Ru	353.6	268.5	46.1	69.6	152.8	11.8	68.5	4.8	4.2	4.5
AO96141-3	325.1	266.9	78.8	120.5	67.5	0.0	56.0	2.2	1.5	2.0
AC96052-1RU	325.8	245.5	75.6	152.6	17.3	6.4	73.3	0.7	3.6	3.5
Russet Burbank	379.4	227.7	47.7	121.0	59.0	0.0	59.0	92.7	1.5	1.5
AOA95154-1	284.5	223.9	80.7	112.2	30.9	0.0	59.6	1.0	3.3	2.5
CO97138-3RU	288.9	222.6	61.3	88.0	73.3	2.1	62.5	1.7	3.5	4.0
AOA95155-7	258.4	209.3	85.3	97.5	26.5	0.0	46.3	2.8	3.3	3.5
A96104-2	256.2	201.7	67.4	72.4	61.9	0.0	52.2	2.2	3.4	3.0
ATX91137-1Ru(TX)	185.3	150.7	42.7	57.0	51.0	0.0	34.6	0.0	3.5	3.5
Average	398.3	319.3	70.4	125.0	123.9	18.3	50.8	9.9	3.2	3.2
L.S.D. (.05)	82.4	65.1	27.6	46.3	47.5	32.0	26.1	20.0	0.4	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 25 entries in the Western Regional Russet Trial grown near Springlake, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
A95409-1	81.8	12.1	28.1	41.7	6.0	8.8	3.3	1.086	17.8	Long	Russet
TXCR-4Ru(TX)	76.8	9.6	20.5	46.7	10.9	8.3	4.0	1.082	17.2	Long	Russet
TXCR-2Ru(TX)	80.2	13.6	26.1	40.4	7.3	10.2	2.3	1.081	16.9	Long	Russet
AO96164-1	85.9	19.9	29.8	36.2	0.0	9.8	4.3	1.086	17.8	Oblong	Russet
CO97138-7RU	87.8	17.0	33.2	37.6	4.8	7.1	0.3	1.076	16.1	Oblong	Russet
AOTX95265-3Ru	80.7	13.8	36.1	30.8	8.4	10.5	0.4	1.076	16.1	Oblong-Long	Russet
Ranger Russet	88.9	22.2	28.3	38.5	3.1	7.3	0.6	1.088	18.2	Long	Russet
AOTX95265-2ARu	86.6	16.4	33.6	36.7	2.3	10.7	0.4	1.079	16.5	Oblong	Russet
Shepody	84.8	14.1	34.1	36.5	2.3	8.6	4.3	1.092	18.9	Long	Russet
AOTX95265-4Ru	77.6	14.4	35.8	27.4	13.0	8.1	1.3	1.078	16.4	Oblong	Russet
Stampede Russet(TX)	88.2	14.2	34.1	39.9	5.0	6.5	0.3	1.067	14.4	Oblong-Long	Russet
A97287-6	86.3	24.1	33.3	28.9	0.6	12.4	0.7	1.092	18.8	Oblong	Russet
Russet Norkotah	81.3	16.5	29.2	35.6	3.9	14.3	0.5	1.078	16.5	Oblong	Russet
CO95172-3RU	75.8	20.6	28.2	27.0	0.5	23.7	0.0	1.082	17.1	Oblong-Long	Russet
CO97087-2RU	79.6	28.3	38.2	13.1	0.0	19.2	1.2	1.084	17.4	Oblong-Long	Russet
ATX84378-6Ru (TX)	68.5	8.5	24.6	35.4	23.7	3.4	4.5	1.074	15.7	Long	Russet
TXA549-1Ru	75.8	13.1	19.8	43.0	3.5	19.2	1.5	1.083	17.3	Oblong	Russet
AO96141-3	82.6	24.3	36.9	21.4	0.0	16.7	0.7	1.093	19.2	Long	Russet
AC96052-1RU	75.7	23.1	46.5	6.1	1.7	22.3	0.3	1.079	16.6	Oblong	Russet
Russet Burbank	60.4	12.7	31.7	15.9	0.0	15.4	24.2	1.080	16.8	Long	Russet
AOA95154-1	78.7	28.2	39.3	11.1	0.0	20.9	0.4	1.083	17.4	Oblong	Russet
CO97138-3RU	77.6	21.8	29.9	25.9	0.9	21.0	0.5	1.081	17.0	Oblong	Russet
AOA95155-7	80.1	32.3	37.9	9.8	0.0	18.7	1.2	1.079	16.5	Oblong	Russet
A96104-2	80.2	28.3	29.3	22.6	0.0	18.7	1.1	1.077	16.2	Oblong	Russet
ATX91137-1Ru(TX)	81.6	23.6	30.0	28.0	0.0	18.4	0.0	1.076	16.1	Oblong	Russet
Average	80.1	18.9	31.8	29.5	3.9	13.6	2.3	1.081	17.0		
L.S.D. (.05)	8.4	8.0	8.9	11.0	6.5	5.8	4.0	0.006	1.1		

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 25 entries in the Western Regional Russet Trial grown near Springlake, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
A95409-1	5.5	8.3	1.9	89	100	1.8	4.2	4.7	4.3	0
TXCR-4Ru(TX)	5.6	9.0	1.8	102	100	1.6	4.1	5.0	4.1	0
TXCR-2Ru(TX)	5.9	8.0	2.1	90	99	1.7	4.4	5.0	4.4	0
AO96164-1	5.7	7.2	1.9	82	100	1.5	3.9	4.2	3.9	5
CO97138-7RU	5.1	8.1	2.0	96	99	1.8	3.6	3.7	3.7	13
AOTX95265-3Ru	5.1	8.6	1.9	88	97	1.7	3.8	3.4	3.9	18
Ranger Russet	5.1	7.0	2.0	91	100	1.6	3.7	4.7	3.6	1
AOTX95265-2ARu	5.1	7.1	1.8	80	97	1.6	3.7	3.2	3.7	24
Shepody	4.4	8.1	1.6	90	98	1.7	4.3	3.8	4.4	9
AOTX95265-4Ru	4.7	8.9	1.8	84	98	1.6	3.9	3.3	3.9	28
Stampede Russet(TX)	4.4	8.2	1.9	73	95	1.8	3.5	2.9	3.6	39
A97287-6	5.2	6.9	1.8	80	96	1.9	4.0	4.5	3.9	3
Russet Norkotah	4.7	6.9	1.7	89	100	1.9	3.6	2.9	3.7	51
CO95172-3RU	5.9	5.9	2.2	88	100	1.7	4.2	4.5	4.1	1
CO97087-2RU	5.8	5.6	1.9	84	100	1.5	3.9	3.8	3.9	13
ATX84378-6Ru (TX)	3.3	12.0	1.8	75	94	1.5	4.1	4.6	4.0	14
TXA549-1Ru	3.9	7.5	1.9	88	100	1.9	4.4	4.1	4.4	5
AO96141-3	4.4	6.2	1.8	79	100	1.6	3.7	4.7	3.7	0
AC96052-1RU	4.8	5.8	1.7	75	97	1.5	3.7	4.8	3.7	3
Russet Burbank	4.0	6.6	2.2	88	100	1.6	3.9	4.6	3.9	3
AOA95154-1	5.1	5.4	1.8	68	88	1.5	3.9	4.9	3.8	0
CO97138-3RU	4.4	6.1	2.0	69	89	1.4	3.5	3.2	3.6	23
AOA95155-7	4.1	5.4	1.8	52	96	1.7	3.6	4.8	3.5	0
A96104-2	3.7	5.8	1.8	83	100	1.9	3.5	4.5	3.6	3
ATX91137-1Ru(TX)	3.6	6.1	1.8	46	71	1.8	2.0	3.6	2.3	13
Average	4.8	7.2	1.9	81	97	1.7	3.8	4.1	3.8	11
L.S.D. (.05)	1.1	1.0	0.3	15	7	0.2	0.4	0.5	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 1d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobbiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 25 entries in the Western Regional Russet Trial grown near Springlake, Texas-2007.

Variety or Selection	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
A95409-1	1.0	4.7	4.1	3.8	3.6	5.0	5.0	5.0	5.0	4.9	0	0	0	0
TXCR-4Ru(TX)	1.0	3.9	3.5	3.5	3.1	5.0	5.0	5.0	5.0	4.6	0	0	0	0
TXCR-2Ru(TX)	1.0	4.1	3.8	4.4	3.4	5.0	5.0	5.0	4.9	4.9	0	8	3	0
AO96164-1	1.0	4.6	4.5	4.1	4.3	5.0	5.0	5.0	5.0	5.0	0	0	3	0
CO97138-7RU	1.0	4.0	3.7	4.0	3.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX95265-3Ru	1.0	4.5	4.7	3.6	4.4	5.0	5.0	5.0	5.0	5.0	0	0	8	0
Ranger Russet	1.0	4.5	4.5	3.4	3.9	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX95265-2ARu	1.0	4.5	4.7	3.7	4.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Shepody	1.0	4.4	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	25	0
AOTX95265-4Ru	1.0	3.9	4.7	3.8	4.6	5.0	5.0	5.0	5.0	5.0	3	0	3	0
Stampede Russet(TX)	1.0	4.4	4.7	4.5	4.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
A97287-6	1.0	4.1	4.3	3.5	4.4	5.0	5.0	5.0	5.0	5.0	3	0	3	0
Russet Norkotah	1.0	4.5	4.7	3.5	4.5	5.0	5.0	5.0	5.0	5.0	3	0	0	0
CO95172-3RU	1.0	4.0	4.5	3.8	4.3	5.0	5.0	5.0	5.0	5.0	0	0	3	0
CO97087-2RU	1.0	3.7	4.7	4.5	4.5	5.0	5.0	5.0	5.0	5.0	3	0	0	0
ATX84378-6Ru (TX)	1.0	4.0	4.7	4.6	4.6	5.0	5.0	5.0	5.0	5.0	10	0	0	0
TXA549-1Ru	1.0	4.0	4.3	4.0	4.0	5.0	5.0	5.0	5.0	4.9	0	0	5	3
AO96141-3	1.0	4.7	4.0	3.5	3.9	5.0	5.0	5.0	5.0	5.0	0	0	13	0
AC96052-1RU	1.0	3.9	4.7	4.2	4.4	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Russet Burbank	1.0	4.7	4.7	3.0	4.5	4.5	5.0	5.0	4.6	5.0	0	0	10	0
AOA95154-1	1.0	3.7	4.5	4.2	4.0	5.0	5.0	5.0	5.0	4.9	0	0	8	0
CO97138-3RU	1.0	3.8	4.7	4.0	4.4	5.0	5.0	5.0	5.0	5.0	0	0	5	3
AOA95155-7	1.0	3.6	4.7	4.4	3.8	5.0	5.0	5.0	5.0	5.0	8	0	0	0
A96104-2	1.0	3.7	4.4	3.7	3.6	5.0	5.0	5.0	5.0	4.6	0	0	3	0
ATX91137-1Ru(TX)	1.0	3.9	4.7	4.3	4.5	5.0	5.0	5.0	5.0	5.0	0	0	10	0
Average	1.0	4.1	4.3	3.9	4.0	5.0	5.0	5.0	5.0	5.0	1	0	4	0
L.S.D. (.05)		0.3	0.2	0.2	0.2				0.1		5	ns	ns	ns

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

Springlake Table 1e. Notes and general rating for all reps of 25 entries in the Western Regional Russet Trial grown near Springlake, Texas-2007.

Variety or Selection	Notes Grading Lubbock	Notes Grading College Station	General Rating Grading Lubbock	General Rating Grading College Station
A95409-1	, pointed, pear shaped, rough, heavy set, large tubers	Light Ru, , ,	3.5, 3.7, 3, 3.7	2.5, 2.5, 2.5, 2.5
TXCR-4Ru(TX)	, , , large, rough	, , ,	2.2, 2.5, 2.2, 2.5	3, 3, 3, 3
TXCR-2Ru(TX)	, , large tubers, rough, knobs, pointed, 10 Zebra	, , ,	2.2, 2.2, 2.5, 2.5	3, 3, 3, 3
AO96164-1	, eye brows, pointed poor shape, 10 Zebra, 20 tuber moth, drop, ,	shape?, , ,	3, 3.2, 3.2, 2	3, 3, 3, 3
CO97138-7RU	, light russet, flat, , pointed	, , ,	3.2, 3.7, 3.7, 3.5	2.5, 2.5, 2.5, 2.5
AOTX95265-3Ru	, large tubers+, rough, tuber moth, , 10 Zebra, nice flesh	, , ,	3.7, 3.2, 3.5, 3.7	3.5, 3.5, 3.5, 3.5
Ranger Russet	skinny, pointed, rough, , ,	, , ,	2.2, 3, 2.2, 2.2	3.5, 3.5, 3.5, 3.5
AOTX95265-2ARu	, , nice shape, nice	blocky, , ,	3.5, 3.7, 3.7, 3.7	4.5, 4.5, 4.5, 4.5
Shepody	, blocky, lenticels, long, poor internals,	, , ,	3.2, 3.2, 3.2, 3.5	3, 3, 3, 3
AOTX95265-4Ru	, , very large tubers, very nice skin and shape, blocky, 10 Zebra, BOT+	BOT, , ,	4.5, 4, 4.5, 4.5	4.5, 4.5, 4.5, 4.5
Stampede Russet(TX)	BOT++, , ,	, , ,	4.5, 4.2, 4.5, 4.5	4, 4, 4, 4
A97287-6	, , blocky, skinny, lenticels, poor shape+, pointed, rough	, , ,	3, 2.5, 3, 3	3, 3, 3, 3
Russet Norkotah	, , , BOT+++	blocky, , ,	4, 4, 4, 4	4.5, 4.5, 4.5, 4.5
CO95172-3RU	yield+, , rough, some pointed	, , ,	3.2, 2.7, 3.2, 3.7	2, 2, 2, 2
CO97087-2RU	, small, skinny, pointed, drop,	poor shape, , ,	2.2, 2.2, 2.2, 2.2	2, 2, 2, 2
ATX84378-6Ru (TX)	, , very large tubers, blocky,	, , ,	4, 4.2, 4, 4	3.5, 3.5, 3.5, 3.5
TXA549-1Ru	BOT, blocky, Rhizoc, very nice, 10 Zebra,	blocky, , ,	4.2, 4.5, 3.7, 4.2	4.5, 4.5, 4.5, 4.5
AO96141-3	, heat sprouts, small, skinny,pointed, drop, rough, 40 Zebra	, , ,	1.5, 1.5, 1.5, 1.5	2, 2, 2, 2
AC96052-1RU	, did not size, , nice shape, small	, , ,	3.7, 3.5, 3.5, 3.7	3.5, 3.5, 3.5, 3.5
Russet Burbank	, , , ugly, rough, 30 Zebra, drop	, , ,	1.5, 1.5, 1.5, 1.5	1.5, 1.5, 1.5, 1.5
AOA95154-1	nice shape, nice flesh, blocky+, rhizoc,	, , ,	3.7, 3.5, 3, 3	2.5, 2.5, 2.5, 2.5
CO97138-3RU	, pointed, , blocky, nice shape	blocky, , ,	3.5, 3, 3.7, 3.7	4, 4, 4, 4
AOA95155-7	, , nice shape, smalll, some raised eyes,	blocky, , ,	3.5, 3, 3.5, 3	3.5, 3.5, 3.5, 3.5
A96104-2	, pointed, pear shaped, small, nice shape,	, , ,	3.5, 3.2, 3.2, 3.5	3, 3, 3, 3
ATX91137-1Ru(TX)	, , , nice shape, blocky, 30 Zebra	, , ,	3.5, 3.2, 3.5, 3.7	3.5, 3.5, 3.5, 3.5

Addendum to Tables Springlake 1a, 1b, 1c, 1d, and 1e
Western Regional Russet Trial

Location:
Springlake, Texas

Soil Type
Tivoli Fine Sand

Seed Source
Colorado, Oregon, Texas and Idaho

Date:		DAP
Planted	April 1, 2007	
Vines Killed	July 31, 2007	120
Harvested	August 19, 2007	138

Plot Information:

Size of Plots	10' 5"
Spacing Between Hills	9"
Spacing Between Rows	36"
Hills Per Plot	14
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Two-row drag digger, with hand pick up

Fertilizer:
Application:
200-0-17 # per acre

Irrigation:
Center Pivot

Insecticide:
Dimethoate, Oberon 2SC, Venom

Fungicides Applied:
Tops MZ Gaucho, Quadris

Herbicides Applied:
Roundup, Dual, Matrix, Sencor, Select

Environmental Factors:
This trial was subjected to higher than normal precipitation in the fourth week of May and the first week of August. Temperatures were lower than normal for the entire growing season.

Springlake Table 2a. Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 24 entries in the Western Regional Red/Specialty Trial grown near Springlake, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre							General
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz.	Under 4 oz.	Culls/ No.2	Rating[1] Grading
Red/White Flesh									
Red LaSoda	447.7	380.8	137.6	139.8	103.4	22.6	44.3	0.0	3.9
Dark Red Norland	383.7	352.2	102.7	169.9	79.7	0.0	31.5	0.0	2.9
NDA7985-1R	328.3	275.2	132.6	109.6	33.0	0.0	53.1	0.0	3.5
CO98012-5R	377.3	218.0	167.5	50.5	0.0	0.0	159.4	0.0	3.7
Average	384.2	306.5	135.1	117.4	54.0	5.7	72.0	0.0	3.5
L.S.D. (.05)	44.7	34.1	ns	47.9	36.1	18.3	18.7		0.4
Red/Yellow Flesh									
ATTX961014-1R/Y	410.7	340.7	130.3	140.0	70.4	5.7	64.3	0.0	4.0
CO97232-2R/Y	415.0	331.8	214.1	92.7	25.1	0.0	83.1	0.0	2.7
CO97233-3R/Y	404.5	324.3	234.7	68.8	20.7	0.0	80.2	0.0	2.8
POR00PG4-1	351.2	306.3	104.6	109.9	91.8	0.0	44.9	0.0	3.1
CO97232-1R/Y	363.2	290.9	217.1	71.0	2.8	0.0	72.3	0.0	3.3
AC97521-1R/Y	406.6	276.6	204.9	71.7	0.0	0.0	130.0	0.0	2.7
ATTX98500-2P/Y	248.7	176.5	87.1	79.0	10.4	0.0	72.3	0.0	2.6
Average	371.4	292.4	170.4	90.4	31.6	0.8	78.2	0.0	3.0
L.S.D. (.05)	43.1	32.2	61.7	42.6	36.6	ns	40.8		0.2
Red/Red Flesh									
POR02PG5-1	433.2	371.5	120.0	131.7	119.8	11.4	50.3	0.0	2.5
POR01PG20-12	327.0	236.0	166.1	60.3	9.5	0.0	91.1	0.0	2.8
CO97222-1R/R	365.1	224.4	138.1	68.1	18.2	0.0	140.7	0.0	3.2
CO97226-2R/R	322.6	162.4	153.7	8.6	0.0	0.0	160.2	0.0	2.5
POR01PG22-1	198.7	76.3	76.3	0.0	0.0	0.0	122.4	0.0	3.6
Average	329.3	214.1	130.8	53.8	29.5	2.3	112.9	0.0	2.9
L.S.D. (.05)	63.2	24.1	45.0	32.0	40.3	ns	55.7		0.3
Purple/Purple Flesh									
All Blue	330.7	207.6	136.4	53.8	17.5	0.0	123.1	0.0	2.0
POR01PG16-1	240.7	187.7	132.5	55.1	0.0	0.0	53.1	0.0	3.2
CO97227-2P/PW	351.9	172.9	144.9	28.0	0.0	0.0	179.1	0.0	2.6
CO97215-2P/P	314.6	168.9	137.2	28.2	3.5	0.0	145.7	0.0	3.0
Average	309.5	184.3	137.8	41.3	5.2	0.0	125.2	0.0	2.7
L.S.D. (.05)	45.4	ns	ns	ns	ns		44.5		0.4
Yellow Flesh									
POR02PG37-2	471.9	334.8	234.4	82.8	17.6	0.0	137.1	0.0	3.3
Yukon Gold	370.5	332.8	111.8	90.8	130.2	2.4	35.3	0.0	4.5
A96510-4Y	380.5	311.5	101.2	103.9	106.5	6.6	55.3	7.1	3.0
POR02PG26-5	318.3	237.0	186.9	36.9	13.3	0.0	81.2	0.0	3.3
Average	385.3	304.1	158.6	78.6	66.9	2.2	77.2	1.8	3.5
L.S.D. (.05)	54.7	21.0	35.2	ns	27.7	ns	34.2	ns	0.2
Average	356.8	262.4	148.9	77.1	36.4	2.0	92.1	0.3	3.1

[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 24 entries in the Western Regional Red/Specialty Trial grown near Springlake, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Red/White Flesh											
Red LaSoda	84.8	31.2	30.9	22.8	5.2	10.0	0.0	1.059	13.0	Oblong	Red
Dark Red Norland	91.5	27.0	43.8	20.7	0.0	8.5	0.0	1.058	12.9	Oblong	Red
NDA7985-1R	83.8	39.6	33.8	10.4	0.0	16.2	0.0	1.053	11.9	Oblong	Red
CO98012-5R	57.0	44.2	12.9	0.0	0.0	43.0	0.0	1.067	14.5	Oblong	Red
Average	79.3	35.5	30.3	13.5	1.3	19.4	0.0	1.059	13.1		
L.S.D. (.05)	5.4	ns	12.3	8.7	ns	6.5		0.007	1.2		
Red/Yellow Flesh											
ATTX961014-1R/Y	83.0	32.6	33.7	16.6	1.3	15.7	0.0	1.066	14.2	Oblong	Red
CO97232-2R/Y	79.7	51.6	22.2	6.0	0.0	20.3	0.0	1.055	12.4	Oblong	Red
CO97233-3R/Y	80.2	58.0	17.0	5.1	0.0	19.8	0.0	1.053	11.9	Oblong	Red
POR00PG4-1	87.4	29.5	32.0	25.9	0.0	12.6	0.0	1.058	12.8	Oblong	Yellow& Red
CO97232-1R/Y	80.0	59.4	19.7	0.9	0.0	20.0	0.0	1.064	14.0	Oblong	Red
AC97521-1R/Y	67.7	50.0	17.7	0.0	0.0	32.3	0.0	1.063	13.7	Oblong	Red
ATTX98500-2P/Y	73.5	37.6	31.5	4.3	0.0	26.5	0.0	1.057	12.7	Round	Purple
Average	78.8	45.5	24.8	8.4	0.2	21.0	0.0	1.059	13.1		
L.S.D. (.05)	10.5	18.2	11.0	9.3	ns	10.2		0.006	1.1		
Red/Red Flesh											
POR02PG5-1	85.6	28.1	30.2	27.4	2.6	11.8	0.0	1.058	12.8	Round	Red/Mottled
POR01PG20-12	72.1	50.4	18.6	3.0	0.0	27.9	0.0	1.062	13.6	Oblong	Red
CO97222-1R/R	61.5	37.8	18.8	4.8	0.0	38.5	0.0	1.054	12.2	Oblong	Red
CO97226-2R/R	50.3	47.7	2.7	0.0	0.0	49.7	0.0	1.062	13.5	Round	Red
POR01PG22-1	41.5	41.5	0.0	0.0	0.0	58.5	0.0	1.053	11.9	Long	Red
Average	62.2	41.1	14.1	7.0	0.5	37.3	0.0	1.058	12.8		
L.S.D. (.05)	12.5	ns	7.6	8.7	ns	12.8		ns	ns		
Purple/Purple Flesh											
All Blue	63.2	41.8	16.1	5.3	0.0	36.8	0.0	1.081	17.0	Long	Purple
POR01PG16-1	77.8	55.0	22.8	0.0	0.0	22.2	0.0	1.065	14.0	Long	Purple
CO97227-2P/PW	49.4	42.0	7.4	0.0	0.0	50.6	0.0	1.072	15.3	Oblong	Purple
CO97215-2P/P	52.9	42.9	9.0	1.0	0.0	47.1	0.0	1.070	15.0	Oblong	Purple
Average	60.8	45.5	13.8	1.6	0.0	39.2	0.0	1.072	15.3		
L.S.D. (.05)	9.8	ns	9.0	ns		9.8		ns	ns		
Yellow Flesh											
POR02PG37-2	71.3	50.5	16.5	4.2	0.0	28.7	0.0	1.068	14.7	Oblong	Yellow-RE
Yukon Gold	89.8	29.8	24.9	35.1	0.6	9.6	0.0	1.072	15.4	Oblong	White
A96510-4Y	82.5	27.1	27.0	28.3	1.3	14.8	1.4	1.060	13.2	Oblong	Lt Russet
POR02PG26-5	74.8	59.4	12.1	3.2	0.0	25.2	0.0	1.062	13.6	Oblong	Yellow-RE
Average	79.6	41.7	20.1	17.7	0.5	19.6	0.4	1.066	14.2		
L.S.D. (.05)	6.2	13.5	ns	7.7	ns	5.1	ns	0.004	0.8		
Average	72.6	42.3	20.9	9.4	0.5	26.9	0.1	1.062	13.6		

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 24 entries in the Western Regional Red/Specialty Trial grown near Springlake, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
Red/White Flesh										
Red LaSoda	5.9	6.4	2.4	91	100	1.8	3.9	3.5	3.9	3
Dark Red Norland	5.3	6.2	2.3	88	96	1.7	3.4	3.0	3.9	9
NDA7985-1R	6.2	5.0	2.1	73	89	1.9	3.4	2.9	3.2	9
CO98012-5R	8.7	3.6	2.5	88	100	1.7	4.3	3.6	4.1	1
Average	6.5	5.3	2.3	85	96	1.8	3.7	3.3	3.8	5
L.S.D. (.05)	1.0	0.6	ns	12	6	ns	ns	0.4	ns	7
Red/Yellow Flesh										
ATTX961014-1R/Y	6.6	5.4	2.3	85	96	2.2	3.4	3.0	3.6	11
CO97232-2R/Y	7.6	4.9	2.5	83	93	2.1	3.3	3.1	3.5	5
CO97233-3R/Y	9.3	4.2	2.5	71	86	1.8	3.7	4.3	3.6	0
POR00PG4-1	4.9	6.1	2.2	51	100	1.5	3.6	4.1	3.4	0
CO97232-1R/Y	6.7	4.6	2.1	78	98	1.4	3.2	2.6	3.3	13
AC97521-1R/Y	8.9	3.8	2.3	83	100	1.4	4.7	4.9	4.4	0
ATTX98500-2P/Y	5.4	3.9	2.2	83	100	1.4	4.7	5.0	4.6	0
Average	7.1	4.7	2.3	76	96	1.7	3.8	3.9	3.7	4
L.S.D. (.05)	1.5	0.8	ns	19	7	0.3	0.2	0.3	0.2	4
Red/Red Flesh										
POR02PG5-1	6.2	6.2	2.0	78	95	1.4	4.3	5.0	4.1	0
POR01PG20-12	7.6	3.6	2.3	83	100	1.6	3.9	4.9	3.7	0
CO97222-1R/R	7.9	3.9	2.3	80	98	2.0	3.8	3.4	3.7	4
CO97226-2R/R	8.5	3.1	2.2	79	100	1.8	4.0	3.9	3.8	0
POR01PG22-1	9.3	1.8	2.8	74	98	1.5	3.8	5.0	3.4	0
Average	7.9	3.7	2.3	79	98	1.6	3.9	4.4	3.7	1
L.S.D. (.05)	ns	0.5	ns	ns	ns	0.2	ns	0.2	ns	4
Purple/Purple Flesh										
All Blue	8.4	3.4	2.3	90	96	1.5	4.4	4.3	4.6	1
POR01PG16-1	6.1	3.3	2.4	93	99	2.2	3.4	3.0	3.2	10
CO97227-2P/PW	11.7	2.5	3.1	94	100	1.6	4.6	4.6	4.7	0
CO97215-2P/P	8.3	3.2	2.5	70	99	1.4	4.4	4.8	4.2	0
Average	8.7	3.1	2.6	87	99	1.7	4.2	4.2	4.1	3
L.S.D. (.05)	1.7	0.3	0.1	10	ns	0.1	0.3	0.8	0.1	7
Yellow Flesh										
POR02PG37-2	9.0	4.4	3.0	94	98	2.0	3.9	3.2	4.2	1
Yukon Gold	5.0	7.1	1.7	64	87	1.2	3.9	3.3	3.6	4
A96510-4Y	5.5	5.7	2.3	76	100	1.4	4.6	5.0	4.5	0
POR02PG26-5	6.6	4.0	2.1	71	100	1.7	4.2	4.1	3.9	0
Average	6.5	5.3	2.3	76	96	1.6	4.2	3.9	4.0	1
L.S.D. (.05)	1.1	0.3	0.3	14	5	0.3	0.3	0.3	0.3	ns
Average	7.3	4.4	2.4	80	97	1.7	3.9	3.9	3.9	3

[1] 1= upright, 2= semiprostrate, 3= prostrate
[2] 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous
[3] 1= very early, 2= early, 3= medium, 4=late, 5= very late
[4] 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake Table 2d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobbiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 24 entries in the Western Regional Red/Specialty Trial grown near Springlake, Texas-2007.

Variety or Selection	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/White Flesh														
Red LaSoda	1.0	3.5	1.0	2.0	3.5	5.0	5.0	5.0	5.0	3.4	18	0	0	0
Dark Red Norland	1.0	3.5	1.0	2.0	3.0	5.0	5.0	5.0	5.0	4.4	8	0	0	0
NDA7985-1R	1.0	3.5	1.0	3.6	3.8	5.0	5.0	5.0	4.9	2.9	0	0	0	0
CO98012-5R	1.0	3.1	1.0	4.0	4.1	5.0	5.0	5.0	5.0	4.5	0	0	0	0
Average	1.0	3.4	1.0	2.9	3.6	5.0	5.0	5.0	5.0	3.8	6	0	0	0
L.S.D. (.05)		ns		0.3	0.1					0.4				
Red/Yellow Flesh														
ATTX961014-1R/Y	3.2	3.5	1.0	3.7	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO97232-2R/Y	3.8	3.5	1.8	3.8	3.0	5.0	5.0	5.0	5.0	3.7	25	0	0	0
CO97233-3R/Y	3.4	3.5	1.5	4.3	3.9	5.0	5.0	5.0	5.0	4.0	0	0	0	0
POR00PG4-1	3.9	3.3	1.7	3.0	3.5	5.0	5.0	5.0	4.9	4.0	3	0	0	5
CO97232-1R/Y	3.1	3.5	1.0	3.9	3.6	5.0	5.0	5.0	5.0	2.8	3	0	0	0
AC97521-1R/Y	3.3	3.5	1.0	4.0	3.7	5.0	5.0	5.0	5.0	3.3	18	0	5	0
ATTX98500-2P/Y	2.7	2.0	1.0	3.3	4.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	3.3	3.3	1.3	3.7	3.7	5.0	5.0	5.0	5.0	4.0	7	0	1	1
L.S.D. (.05)	0.4	0.2	0.3	0.3	0.1					0.3	8			
Red/Red Flesh														
POR02PG5-1	3.5	2.9	3.0	3.4	4.0	5.0	5.0	5.0	5.0	4.0	0	0	0	0
POR01PG20-12	3.0	3.9	1.0	3.2	4.5	5.0	5.0	5.0	5.0	3.0	0	0	0	0
CO97222-1R/R	3.2	3.5	1.0	3.3	4.5	5.0	5.0	5.0	5.0	3.9	5	0	0	8
CO97226-2R/R	3.1	2.6	2.5	3.2	4.5	5.0	5.0	5.0	5.0	2.6	0	0	0	0
POR01PG22-1	3.3	4.1	1.0	3.8	4.3	5.0	5.0	5.0	5.0	3.5	0	0	0	0
Average	3.2	3.4	1.7	3.4	4.4	5.0	5.0	5.0	5.0	3.4	1	0	0	2
L.S.D. (.05)	0.2	0.2	ns							0.6				
Purple/Purple Flesh														
All Blue	3.5	4.0	1.0	2.0	4.8	5.0	5.0	5.0	5.0	3.6	0	0	0	0
POR01PG16-1	4.3	4.0	1.0	3.4	5.0	5.0	5.0	5.0	5.0	4.5	0	0	0	0
CO97227-2P/PW	4.8	3.7	1.0	3.4	4.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO97215-2P/P	4.5	3.5	1.0	3.8	4.8	5.0	5.0	5.0	5.0	4.9	0	0	0	0
Average	4.3	3.8	1.0	3.1	4.8	5.0	5.0	5.0	5.0	4.5	0	0	0	0
L.S.D. (.05)	0.3	0.5		0.5	0.2					0.3				
Yellow Flesh														
POR02PG37-2	2.9	3.4	1.5	3.4	1.5	5.0	5.0	5.0	5.0	3.4	8	0	0	0
Yukon Gold	3.0	3.5	1.4	4.0	1.5	5.0	5.0	5.0	5.0	4.6	0	0	0	0
A96510-4Y	1.3	3.9	4.0	4.2	1.5	5.0	5.0	5.0	5.0	1.9	0	0	3	0
POR02PG26-5	2.7	3.2	1.0	3.7	2.0	5.0	5.0	5.0	5.0	3.7	0	0	0	0
Average	2.5	3.5	2.0	3.8	1.6	5.0	5.0	5.0	5.0	3.4	2	0	1	0
L.S.D. (.05)	0.3	0.3	0.1	0.4						0.4				
Average	2.9	3.4	1.4	3.4	3.7	5.0	5.0	5.0	5.0	3.8	4	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

Springlake Table 2e. Notes and general rating for all reps of 24 entries in the Western Regional Red/Specialty Trial grown near Springlake, Texas-2007.

Variety or Selection	Notes Grading	General Rating Grading
Red/White Flesh		
Red LaSoda	, , , rough, deep eyes	3.8, 3.8, 3.8, 4
Dark Red Norland	, rough, ugly,	3, 2.5, 3, 3
NDA7985-1R	BOT, rhizic, very nice flesh, knobs on stem end,	3.5, 3.3, 3.5, 3.6
CO98012-5R	nice skin, shape and flesh, BOT, nice white flesh, small heavy set	3.8, 4, 3.2, 3.6
Red/Yellow Flesh		
ATTX961014-1R/Y	nice, smooth, smooth skin,variable shape, road map, oval shape, nose, good skin set, BOT+,	4, 4, 4, 4
CO97232-2R/Y	rhioc, poor skin, drop, poor internals, poor skin finish, silver scurf, faded color,	2.7, 3, 2.5, 2.5
CO97233-3R/Y	pointed top stem end, road map, buff, pair shaped, drop+, ,	2.8, 2.8, 2.8, 2.8
POR00PG4-1	heat srouts, nice flesh color, poor internal, will oversize, red slash, rough, , knobs on stem end	3, 3.2, 3, 3.2
CO97232-1R/Y	, small, rhizoct, , some pointed	3.4, 3, 3.2, 3.4
AC97521-1R/Y	pointed to stem end+, , poor shape,	2.7, 2.7, 2.7, 2.7
ATTX98500-2P/Y	, stem attachment,late+, drop, nice flesh	2.5, 2.7, 2.5, 2.5
Red/Red Flesh		
POR02PG5-1	chip?, poor skin finish, , , road map++, poor shape, purple/white flesh, drop++	2.5, 2.5, 2.5, 2.5
POR01PG20-12	pointed, rough, drop, feathering,	3.2, 2.5, 2.7, 2.7
CO97222-1R/R	rough, poor internals, road map, poor skin finish,	3.2, 3.5, 3, 3
CO97226-2R/R	drop, small, road map+, poor skin+, ,	2.5, 2.5, 2.5, 2.5
POR01PG22-1	fingerling, nioce, heat sprouts, eye sprouts, ,	3.5, 3.5, 3.5, 3.8
Purple/Purple Flesh		
All Blue	, , , rough,pointed, putple/white flesh	2, 2, 2, 2
POR01PG16-1	better than All blue, pointed, ,	3.3, 2.5, 3.5, 3.3
CO97227-2P/PW	parent, very dark flesh, small pointed, rough, poor shape	2.5, 2.7, 2.7, 2.5
CO97215-2P/P	small, stem indetations, , variable flesh color,	3, 3, 3, 3
Yellow Flesh		
POR02PG37-2	, pointed to stem end, , pink eyes	3.4, 3, 3.4, 3.4
Yukon Gold	nice, BOT, very nice, ,	4.5, 4.5, 4.5, 4.5
A96510-4Y	light russet skin,late, , white flesh, some pointed to stem end	3, 3, 3, 3
POR02PG26-5	, pink slash, heat sprouts, rhizoct, , some pear shaped	3.2, 3.3, 3.3, 3.3

Addendum to Tables Springlake 2a, 2b, 2c, 2d, and 2e
Western Regional Cooperative Red/ Specialty Trial

Location:
Springlake, Texas

Soil Type
Tivoli Fine Sand

Seed Source
Colorado, Oregon, Texas and Idaho

Date:		DAP
Planted	April 1, 2007	
Vines Killed	July 11, 2007	100
Harvested	July 26, 2007	115

Plot Information:

Size of Plots	10' 5"
Spacing Between Hills	9"
Spacing Between Rows	36"
Hills Per Plot	14
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Two-row drag digger, with hand pick up

Fertilizer:
Application:
126-0-17 # per acre

Irrigation:
Center Pivot

Insecticide:
Dimethoate, Oberon 2SC, Venom

Fungicides Applied:
Tops MZ Gaucho, Quadris

Herbicides Applied:
Roundup, Dual, Matrix, Sencor, Select

Environmental Factors:
This trial was subjected to higher than normal precipitation in the fourth week of May and the first week of August. Temperatures were lower than normal for the entire growing season.

Springlake Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 9 entries in the Southwestern Regional Russet
Table 3a. Trial grown near Springlake, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre							General Rating[1] Grading Lubb	General Rating[1] Grading CS
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz.	Under 4 oz.	Culls/ No.2		
Russet Norkotah-S3	576.9	480.8	59.2	278.4	143.1	4.7	88.5	2.9	3.6	3.2
AOTX96265-2RU	495.6	427.5	92.2	221.9	113.4	7.3	60.8	0.0	4.1	3.2
Russet Norkotah 278	522.0	424.0	55.3	204.8	163.9	40.6	54.8	2.6	4.1	3.2
Russet Norkotah	493.4	412.6	97.0	195.4	120.1	0.0	76.2	4.7	3.9	3.5
ATX97232-1RU	485.4	375.8	99.2	166.9	109.8	5.0	103.0	1.6	3.4	3.0
CO98067-7RU	467.2	361.1	121.9	176.1	63.1	0.0	104.6	1.6	3.5	3.2
ATX97147-4RU	438.9	354.9	70.4	151.1	133.4	2.2	75.2	6.6	2.5	2.5
AOTX98137-1RU	390.0	335.9	69.7	183.7	82.5	0.0	52.4	1.7	4.1	3.5
CO98368-2RU	373.0	322.7	78.5	170.3	74.0	0.0	47.4	2.9	3.4	3.0
Average	471.4	388.4	82.6	194.3	111.5	6.6	73.7	2.7	3.6	3.1
L.S.D. (.05)	73.2	71.4	30.0	59.6	ns	19.8	ns	ns	ns	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 9 entries in the Southwestern Regional Russet Trial grown near Springlake, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Russet Norkotah-S3	83.5	10.3	48.3	24.9	0.8	15.2	0.5	1.077	16.2	Oblong	Russet
AOTX96265-2RU	86.5	18.4	45.2	22.9	1.4	12.1	0.0	1.084	17.5	Oblong	Russet
Russet Norkotah 278	81.7	10.5	39.6	31.6	7.6	10.2	0.5	1.077	16.3	Oblong	Russet
Russet Norkotah	82.8	20.3	39.8	22.7	0.0	16.3	0.9	1.078	16.4	Oblong	Russet
ATX97232-1RU	77.8	20.4	35.5	21.9	0.9	21.1	0.3	1.088	18.2	Oblong	Russet
CO98067-7RU	77.2	26.1	37.7	13.4	0.0	22.4	0.4	1.068	14.7	Oblong	Russet
ATX97147-4RU	81.0	16.0	34.3	30.7	0.6	16.9	1.5	1.081	17.0	Oblong	Russet
AOTX98137-1RU	86.5	18.1	47.8	20.6	0.0	13.0	0.5	1.080	16.8	Oblong	Russet
CO98368-2RU	86.1	21.2	46.4	18.5	0.0	13.2	0.7	1.081	16.9	Oblong	Russet
Average	82.6	17.9	41.6	23.0	1.2	15.6	0.6	1.079	16.7		
L.S.D. (.05)	ns	6.4	ns	ns	ns	ns	ns	0.008	1.5		

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 9 entries in the Southwestern Regional Russet Trial grown near Springlake, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
Russet Norkotah-S3	7.3	7.1	2.1	91	95	1.5	4.5	4.7	4.5	1
AOTX96265-2RU	5.6	7.5	1.7	83	98	1.5	4.4	4.2	4.4	3
Russet Norkotah 278	5.8	7.9	2.1	95	98	1.7	12.0	3.9	4.6	14
Russet Norkotah	6.3	6.6	2.3	95	98	1.8	3.9	2.9	3.9	48
ATX97232-1RU	6.7	6.1	2.3	90	98	2.5	3.9	3.7	4.2	13
CO98067-7RU	6.6	5.8	1.9	93	100	1.6	4.5	2.7	4.5	35
ATX97147-4RU	5.7	6.4	1.9	70	98	1.5	4.5	4.7	4.5	0
AOTX98137-1RU	5.5	6.5	2.0	76	92	1.8	3.4	2.4	3.3	54
CO98368-2RU	5.1	6.1	2.3	86	98	2.3	3.3	3.7	3.3	11
Average	6.1	6.7	2.1	86	97	1.8	4.9	3.7	4.1	20
L.S.D. (.05)	1.2	0.6	0.1	15	ns	0.2	ns	0.6	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 3d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobbiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 9 entries in the Southwestern Regional Russet Trial grown near Springlake, Texas-2007.

Variety or Selection	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-S3	1.2	4.5	4.7	3.8	4.7	5.0	5.0	5.0	5.0	4.9	0	0	3	0
AOTX96265-2RU	1.2	3.7	4.7	3.7	4.7	5.0	5.0	5.0	5.0	5.0	18	0	0	0
Russet Norkotah 278	1.2	4.5	4.7	3.5	4.7	5.0	5.0	5.0	5.0	5.0	8	0	0	0
Russet Norkotah	1.2	4.5	4.7	3.7	4.5	5.0	5.0	5.0	5.0	5.0	3	0	3	0
ATX97232-1RU	1.2	4.0	4.5	4.0	4.1	5.0	5.0	5.0	5.0	3.7	40	0	0	0
CO98067-7RU	1.1	3.7	4.7	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX97147-4RU	1.1	4.0	4.0	4.0	3.7	5.0	5.0	5.0	5.0	4.9	0	0	5	0
AOTX98137-1RU	1.1	4.0	4.7	4.0	4.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO98368-2RU	1.5	4.2	4.7	3.9	4.4	5.0	5.0	5.0	5.0	3.2	0	0	0	0
Average	1.2	4.1	4.6	3.8	4.4	5.0	5.0	5.0	5.0	4.6	8	0	1	0
L.S.D. (.05)	0.1	0.1	ns	0.1	0.2					0.2	16		ns	

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

Springlake Notes and general rating for all reps of 9 entries in the Southwestern Regional Russet Trial grown near Springlake, Texas-2007.
Table 3e.

Variety or Selection	Notes Grading Lubbock	Notes Grading College Station	General Rating Grading Lubbock	General Rating Grading College Station
Russet Norkotah-S3	rough, pointed, 10 Zebra, nice,	Rhizoc, BOT, small, , ,	4.7, 4, 4.7, 4.5	3.2, 3.2, 3.2, 3.2
AOTX96265-2RU	BOT, blocky, yield+,large tubers, very nice, ,	Shape, Rhizoc, DROP, , ,	4.7, 3.5, 4.7, 4.5	3.2, 3.2, 3.2, 3.2
Russet Norkotah 278	, yield+, large tubers, some curved, BOT++,	BOT, Rhizoc, , ,	4.5, 4.5, 4.7, 4.5	3.2, 3.2, 3.2, 3.2
Russet Norkotah	, very nice, , nice	BOT, , ,	4.5, 4, 3.5, 3.7	3.5, 3.5, 3.5, 3.5
ATX97232-1RU	close set, hollow heart++, , rough, Rhizoc, feathering,	shape, DROP, , ,	4, 4.5, 4.2, 4.2	3, 3, 3, 3
CO98067-7RU	rough, , , blocky, nice shape	shape, DROP, , ,	4.2, 4.5, 4.7, 4.5	3.2, 3.2, 3.2, 3.2
ATX97147-4RU	ugl;y, 10 Zebra, , nice flesh, drop+, poor skin, poor shape, pointed	, DROP, , ,	4.2, 4.2, 4.7, 4.7	2.5, 2.5, 2.5, 2.5
AOTX98137-1RU	, , very nice+, BOT	BOT, , ,	3.2, 3, 3.5, 3.5	3.5, 3.5, 3.5, 3.5
CO98368-2RU	feathering, , pointed, curved, nice internals	slender, pointed, DROP, , ,	3.2, 3.2, 3.7, 3.2	3, 3, 3, 3

Addendum to Tables Springlake 3a, 3b, 3c, 3d, and 3e
Southwestern Regional Russet Trial

Location:
Springlake, Texas

Soil Type
Tivoli Fine Sand

Seed Source
Colorado, Oregon, Texas and Idaho

Date:		DAP
Planted	April 1, 2007	
Vines Killed	July 31, 2007	120
Harvested	August 19, 2007	138

Plot Information:

Size of Plots	10' 5"
Spacing Between Hills	9"
Spacing Between Rows	36"
Hills Per Plot	14
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Two-row drag digger, with hand pick up

Fertilizer:
Application:
200-0-17 # per acre

Irrigation:
Center Pivot

Insecticide:
Dimethoate, Oberon 2SC, Venom

Fungicides Applied:
Tops MZ Gaucho, Quadris

Herbicides Applied:
Roundup, Dual, Matrix, Sencor, Select

Environmental Factors:
This trial was subjected to higher than normal precipitation in the fourth week of May and the first week of August. Temperatures were lower than normal for the entire growing season.

Springlake Table 4a. Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 9 entries in the Southwestern Regional Red Trial grown near Springlake, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz.	Under 4 oz.	Culls/ No.2	General Rating[1] Grading
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.				
Red LaSoda	444.1	382.8	120.1	176.8	86.0	0.0	61.3	0.0	3.6
Dark Red Norland	341.8	282.3	55.3	164.3	62.7	0.0	59.5	0.0	3.3
ATTX98453-6R	321.2	270.5	77.3	123.9	69.3	0.0	50.6	0.0	3.9
NDTX4784-7R	290.6	237.6	88.0	100.0	49.6	0.0	53.0	0.0	3.4
CO99076-6R	294.2	230.4	95.8	86.8	47.9	0.0	63.8	0.0	3.6
CO99256-2R	324.0	213.9	139.4	74.4	0.0	0.0	110.2	0.0	2.9
COTX00104-7R	226.6	190.1	78.4	70.1	41.7	0.0	36.4	0.0	2.8
COTX94218-1R	275.4	105.8	93.3	12.4	0.0	0.0	169.6	0.0	3.5
CO99256-3R	182.5	100.9	63.2	28.6	9.2	0.0	81.6	0.0	2.3
Average	300.0	223.8	90.1	93.0	40.7	0.0	76.2	0.0	3.3
L.S.D. (.05)									

[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 9 entries in the Southwestern Regional Red Trial grown near Springlake, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Red LaSoda	85.8	25.9	40.5	19.3	0.0	14.2	0.0	1.068	14.6	Oblong	Red
Dark Red Norland	82.6	16.2	48.1	18.3	0.0	17.4	0.0	1.066	14.3	Oblong	Red
ATTX98453-6R	84.6	23.8	38.9	21.9	0.0	15.4	0.0	1.073	15.6	Round	Red
NDTX4784-7R	81.9	30.1	34.5	17.3	0.0	18.1	0.0	1.065	14.1	Round	Red
CO99076-6R	78.4	32.8	29.1	16.4	0.0	21.6	0.0	1.072	15.3	Round	Red
CO99256-2R	66.2	44.4	21.8	0.0	0.0	33.8	0.0	1.070	15.0	Oblong	Red
COTX00104-7R	84.0	35.3	30.9	17.8	0.0	16.0	0.0	1.062	13.5	Oblong	Red
COTX94218-1R	38.9	34.7	4.2	0.0	0.0	61.1	0.0	1.068	14.6	Round	Red
CO99256-3R	55.5	34.5	15.6	5.3	0.0	44.5	0.0	1.065	14.1	Oblong	Red
Average	73.1	30.9	29.3	12.9	0.0	26.9	0.0	1.1			
L.S.D. (.05)											

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 9 entries in the Southwestern Regional Red Trial grown near Springlake, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
Red LaSoda	6.7	5.5	3.6	91	100	1.7	4.5	4.0	4.7	3
Dark Red Norland	5.4	5.5	3.0	93	96	2.3	3.2	2.0	3.3	21
ATTX98453-6R	4.4	6.3	2.2	66	98	2.1	3.4	3.5	3.4	3
NDTX4784-7R	4.9	5.2	2.2	66	95	1.7	3.7	3.1	3.6	11
CO99076-6R	5.0	5.0	3.5	78	97	1.8	3.7	2.9	3.5	13
CO99256-2R	7.7	3.6	2.8	69	96	1.8	3.9	3.6	3.7	4
COTX00104-7R	4.0	5.2	3.6	75	90	1.9	3.5	3.4	3.6	3
COTX94218-1R	9.6	2.4	3.3	83	100	1.7	4.5	5.0	4.3	0
CO99256-3R	4.0	3.9	2.5	86	100	1.8	4.1	4.1	4.2	1
Average	5.7	4.7	3.0	78	97	1.9	3.8	3.5	3.8	6
L.S.D. (.05)										

[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, knobbiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 9 entries in the Southwestern Regional Red Trial grown near Springlake, Texas-2007.

Variety or Selection	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
Red LaSoda	1.0	3.6	1.0	2.0	3.1	5.0	5.0	5.0	5.0	3.2	10	0	3	0
Dark Red Norland	1.2	3.5	2.7	3.0	3.0	5.0	5.0	5.0	5.0	4.7	0	0	0	0
ATTX98453-6R	1.0	2.4	1.0	4.3	4.0	5.0	5.0	5.0	5.0	3.1	0	0	3	0
NDTX4784-7R	1.0	2.4	1.2	4.6	4.4	5.0	5.0	5.0	5.0	4.1	0	0	3	0
CO99076-6R	1.0	2.0	1.0	3.9	4.7	4.7	5.0	5.0	5.0	2.5	3	0	0	0
CO99256-2R	1.0	3.6	1.0	4.1	4.5	5.0	5.0	5.0	5.0	3.4	0	0	0	0
COTX00104-7R	1.1	3.4	2.2	3.6	3.8	4.9	5.0	5.0	5.0	4.1	0	0	3	0
COTX94218-1R	1.0	2.7	1.0	4.0	4.0	5.0	5.0	5.0	5.0	3.1	0	0	0	0
CO99256-3R	1.0	3.6	1.0	3.9	4.4	4.9	5.0	5.0	5.0	3.6	3	0	0	0
Average	1.0	3.0	1.3	3.7	4.0	4.9	5.0	5.0	5.0	3.5	2	0	1	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 9 entries in the Southwestern Regional Red Trial grown near Springlake, Texas-2007.

Variety or Selection	Notes Grading	General Rating Grading
Red LaSoda	rough, deep eyes, , ,	4, 3.5, 3.5, 3.5
Dark Red Norland	, variable size, poor color, faded color, rough, ugly	3.3, 3.3, 3.3, 3.3
ATTX98453-6R	nice flesh, keep, To WRD, BOT, Rhiz, good skin color	3.7, 4, 4.5, 3.5
NDTX4784-7R	very nice flesh++, nice skin color, , ,	3.2, 3.4, 3.4, 3.7
CO99076-6R	, , ,	3.7, 3.4, 3.5, 3.6
CO99256-2R	nice flesh, poort shape, small, rhiz, lentisels,, drop,	3, 3, 2.7, 3
COTX00104-7R	low yield, rhiz, russeting, drop+, poor shape, , , rough	2.5, 3, 2.7, 3
COTX94218-1R	keep, uniform size, B size tuber, heavy set, nice fleh, rhiz, boiler, ,	3.5, 3.5, 3.5, 3.5
CO99256-3R	nose, LaSoda like, drop+, small, rough, poor shape, late, stem attachment,	2, 2, 2.5, 2.5

Addendum to Tables Springlake 4a, 4b, 4c, 4d, and 4e
Southwestern Regional Red Trial

Location:
Springlake, Texas

Soil Type
Tivoli Fine Sand

Seed Source
Colorado, Oregon, Texas and Idaho

Date:		DAP
Planted	April 1, 2007	
Vines Killed	July 11, 2007	100
Harvested	July 24, 2007	113

Plot Information:

Size of Plots	10' 5"
Spacing Between Hills	9"
Spacing Between Rows	36"
Hills Per Plot	14
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Two-row drag digger, with hand pick up

Fertilizer:
Application:
126-0-17 # per acre

Irrigation:
Center Pivot

Insecticide:
Dimethoate, Oberon 2SC, Venom

Fungicides Applied:
Tops MZ Gaucho, Quadris

Herbicides Applied:
Roundup, Dual, Matrix, Sencor, Select

Environmental Factors:
This trial was subjected to higher than normal precipitation in the fourth week of May and the first week of August. Temperatures were lower than normal for the entire growing season.

Springlake Table 5a. 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 Specialty Trial grown near Springlake, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz.	Under 4 oz.	Culls/ No.2	General Rating[1] Grading
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.				
Yukon Gold	378.9	337.6	115.7	97.7	124.2	4.8	36.4	0.0	3.9
CO99045-1W/Y	374.1	302.6	123.5	130.0	49.1	0.0	71.4	0.0	3.5
AC99329-7RW/Y	301.5	247.8	102.1	84.1	61.5	0.0	53.7	0.0	2.6
ATTX98500-3P/Y	247.9	207.8	83.8	76.2	47.7	0.0	40.1	0.0	2.9
CO99338-3RU/Y	259.0	165.2	108.1	40.8	16.3	0.0	93.8	0.0	3.2
All Blue	278.6	143.1	87.6	43.1	12.4	0.0	135.5	0.0	2.0
AC99330-1P/Y	287.6	129.5	98.7	26.4	4.3	0.0	158.2	0.0	2.5
Average	303.9	219.1	102.8	71.2	45.1	0.7	84.2	0.0	2.9
L.S.D. (.05)	65.9	69.0	ns	45.1	26.1	3.1	44.1		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 7 entries in the Southwestern Regional Specialty Trial grown near Springlake, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Yukon Gold	89.0	29.6	26.5	32.9	1.2	9.8	0.0	1.084	17.5	Oblong	White
CO99045-1W/Y	80.9	33.1	34.8	13.0	0.0	19.1	0.0	1.081	17.0	Long	White
AC99329-7RW/Y	82.2	34.3	27.8	20.1	0.0	17.8	0.0	1.072	15.4	Round	Red
ATTX98500-3P/Y	83.8	33.9	30.7	19.3	0.0	16.2	0.0	1.068	14.7	Oblong	Purple
CO99338-3RU/Y	63.6	41.6	16.0	6.1	0.0	36.4	0.0	1.076	16.0	Oval	Russet
All Blue	50.9	31.3	15.2	4.5	0.0	49.1	0.0	1.069	14.9	Long	Purple
AC99330-1P/Y	46.1	35.4	9.5	1.3	0.0	53.9	0.0	1.065	14.1	Round	Purple
Average	70.9	34.2	22.9	13.9	0.2	28.9	0.0	1.074	15.7		
L.S.D. (.05)	14.1	ns	12.8	6.8	0.7	14.3		0.009	1.6		

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 7 entries in the Southwestern Regional Specialty Trial grown near Springlake, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
Yukon Gold	5.6	6.2	2.2	74	90	1.2	3.9	3.1	3.7	5
CO99045-1W/Y	6.8	4.6	3.2	90	100	1.7	4.4	4.4	4.5	0
AC99329-7RW/Y	5.9	5.0	1.8	78	84	1.4	3.6	4.3	4.0	0
ATTX98500-3P/Y	4.8	4.5	2.9	69	96	1.5	4.3	4.3	4.4	0
CO99338-3RU/Y	5.6	4.0	2.4	88	95	2.2	3.4	2.6	3.6	15
All Blue	8.1	2.9	3.0	95	100	1.6	4.6	5.0	4.7	0
AC99330-1P/Y	7.7	3.2	2.2	90	98	1.7	4.1	4.7	4.2	0
Average	6.4	4.3	2.5	83	95	1.6	4.0	4.1	4.2	3
L.S.D. (.05)	1.4	0.4	0.6	16	ns	0.3	0.5	0.5	0.3	3

[1] 1= upright, 2= semiprostrate, 3= prostrate
[2] 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous
[3] 1= very early, 2= early, 3= medium, 4=late, 5= very late
[4] 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake Table 5d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobbiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 7 entries in the Southwestern Regional Specialty Trial grown near Springlake, Texas-2007.

Variety or Selection	Flesh Color[1]	Tuber Shape[2]	Degree of Russeting[3]	Eye Depth[4]	Skin Color[5]	Growth Cracks[6]	Shatter Bruise[7]	Scab[8]	Knobs[9]	Feathering[10]	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration[10]	Percent Internal Brownspot
Yukon Gold	2.8	3.5	1.4	3.9	1.7	5.0	5.0	5.0	5.0	5.0	3	0	0	5
CO99045-1W/Y	3.0	4.4	1.2	4.0	2.9	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC99329-7RW/Y	2.9	1.7	1.0	2.9	3.5	5.0	5.0	5.0	5.0	5.0	25	0	0	0
ATTX98500-3P/Y	3.4	3.7	1.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO99338-3RU/Y	3.5	3.4	4.0	3.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	35
All Blue	3.0	4.0	1.0	2.3	4.7	5.0	5.0	5.0	5.0	4.2	0	0	0	0
AC99330-1P/Y	3.4	2.3	1.0	3.3	4.7	5.0	5.0	5.0	5.0	4.9	0	0	0	0
Average	3.1	3.3	1.5	3.4	3.4	5.0	5.0	5.0	5.0	4.9	4	0	0	6
L.S.D. (.05)	0.3	0.7	0.2	0.4	0.1					0.2	4			11

[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 7 entries in the Southwestern Regional Specialty Trial grown near Springlake, Texas-2007.

Variety or Selection	Notes Grading	General Rating Grading
Yukon Gold	nice, BOT, , ,	3.5, 4, 4, 4
CO99045-1W/Y	nice, rough, light fine russet skin, some pointed, BOT of Col entries	3.5, 3.5, 3.5, 3.5
AC99329-7RW/Y	pinto, deep eyes, rough, heat sprouts, , ,	2.5, 2.7, 2.5, 2.5
ATTX98500-3P/Y	pointed to stem end, poor shape, flat, pinto, , , nice flesh	2.7, 3, 2.8, 3
CO99338-3RU/Y	small, light skin russet, poor internals,	3.2, 3.5, 3, 3.2
All Blue	heat sprouts, rough, blue with white pith,	2, 2, 2, 2
AC99330-1P/Y	lentisels++, rough, small tubers, , ugly	2.5, 2.5, 2.5, 2.5

Addendum to Tables Springlake 5a, 5b, 5c, 5d, and 5e
Southwestern Regional Specialty Trial

Location:
Springlake, Texas

Soil Type
Tivoli Fine Sand

Seed Source
Colorado, Oregon, Texas and Idaho

Date:		DAP
Planted	April 1, 2007	
Vines Killed	July 11, 2007	100
Harvested	July 24, 2007	113

Plot Information:

Size of Plots	10' 5"
Spacing Between Hills	9"
Spacing Between Rows	36"
Hills Per Plot	14
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Two-row drag digger, with hand pick up

Fertilizer:
Application:
126-0-17 # per acre

Irrigation:
Center Pivot

Insecticide:
Dimethoate, Oberon 2SC, Venom

Fungicides Applied:
Tops MZ Gaucho, Quadris

Herbicides Applied:
Roundup, Dual, Matrix, Sencor, Select

Environmental Factors:
This trial was subjected to higher than normal precipitation in the fourth week of May and the first week of August. Temperatures were lower than normal for the entire growing season.

Springlake Table 6a. Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 20 entries in the Texas Advanced Selection Russet Trial grown near Springlake, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz.	Under 4 oz.	Culls/ No.2	General Rating[1] Grading Lubb	General Rating[1] Grading CS
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.					
Russet Norkotah 278	557.2	450.5	85.1	127.7	237.8	32.5	65.7	8.5	4.2	4.0
COTX03261-1Ru	530.6	423.9	107.3	197.0	119.6	13.3	93.4	0.0	3.2	3.7
Russet Norkotah 296	537.0	411.4	78.2	156.1	177.1	38.1	86.5	1.0	4.4	4.3
AOTX03096-1Ru	431.0	360.4	35.1	127.5	197.8	25.0	32.9	12.7	3.6	3.0
Russet Norkotah	392.4	317.8	63.8	115.7	138.3	17.5	54.9	2.2	4.0	4.5
AOTX02066-1Ru	335.8	309.4	39.3	129.5	140.6	0.0	26.4	0.0	3.4	4.2
COTX03285-4Ru	430.2	299.7	22.0	63.7	214.0	103.1	27.4	0.0	3.2	3.2
AOTX02060-1Ru	361.1	299.3	61.0	132.8	105.4	0.0	54.6	7.3	4.0	4.0
AOTX95295-1Ru	302.5	249.1	57.9	108.9	82.3	5.2	46.6	1.6	3.9	3.8
AOTX03134-1Ru	324.1	247.8	71.4	94.4	82.1	5.8	66.1	4.2	2.2	3.0
AOTX95269-1Ru	288.8	233.7	79.7	95.4	58.7	4.8	48.4	1.8	3.8	3.8
AOTX95295-3Ru	317.0	232.5	66.3	113.9	52.2	0.0	84.5	0.0	4.0	4.3
AOTX96075-1Ru	276.1	220.8	56.5	107.3	57.0	0.0	53.8	1.6	3.6	3.2
AOTX96216-2Ru	282.9	216.4	48.2	105.5	62.7	3.4	63.1	0.0	3.6	3.7
AOTX98096-1Ru	265.0	209.3	69.4	74.6	65.3	0.0	54.7	1.0	4.1	4.2
AOTX96208-1Ru	253.2	202.4	58.7	93.2	50.6	0.0	50.8	0.0	3.4	3.8
ATX02014-1Ru	220.2	179.7	56.5	98.6	24.6	0.0	40.5	0.0	3.1	3.3
AOTX95265-1Ru	230.9	175.0	44.4	86.9	43.8	0.0	55.9	0.0	3.5	3.5
AOTX96084-1Ru	216.3	155.4	71.8	59.2	24.4	0.0	60.3	0.6	3.6	3.2
AOTX02136-1Ru	136.9	109.2	47.6	37.1	24.5	0.0	27.7	0.0	2.5	4.2
Average	344.9	273.4	61.7	109.9	101.8	13.1	56.1	2.2	3.6	3.7
L.S.D. (.05)	52.3	49.7	24.8	37.3	39.0	21.7	27.0	6.4	0.3	

[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 120 entries in the Texas Advanced Selection Russet Trial grown near Springlake, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Russet Norkotah 278	80.7	15.2	22.9	42.6	5.9	11.9	1.5	1.081	16.9	Oblong	Russet
COTX03261-1Ru	79.9	20.4	37.1	22.4	2.3	17.8	0.0	1.081	17.0	Oblong	Russet
Russet Norkotah 296	76.4	14.5	29.2	32.8	7.0	16.4	0.2	1.081	16.9	Oblong	Russet
AOTX03096-1Ru	83.7	8.2	29.6	45.9	5.8	7.6	2.9	1.085	17.8	Oblong	Russet
Russet Norkotah	81.3	16.5	29.2	35.6	3.9	14.3	0.5	1.078	16.5	Oblong	Russet
AOTX02066-1Ru	92.2	11.6	38.2	42.4	0.0	7.8	0.0	1.086	17.9	Oblong	Russet
COTX03285-4Ru	70.2	5.1	14.8	50.3	23.5	6.4	0.0	1.071	15.1	Oblong	Russet
AOTX02060-1Ru	82.9	17.0	36.9	29.1	0.0	15.0	2.0	1.086	17.8	Oblong	Russet
AOTX95295-1Ru	82.4	19.1	35.9	27.4	1.6	15.4	0.5	1.081	16.9	Oblong	Russet
AOTX03134-1Ru	76.5	21.8	30.1	24.6	1.6	20.4	1.4	1.086	17.9	Oblong	Russet
AOTX95269-1Ru	80.9	27.6	33.6	19.7	1.8	16.7	0.6	1.077	16.3	Oblong	Russet
AOTX95295-3Ru	73.5	21.1	35.9	16.5	0.0	26.5	0.0	1.079	16.7	Oblong	Russet
AOTX96075-1Ru	80.0	20.1	39.2	20.7	0.0	19.5	0.5	1.075	16.0	Oblong	Russet
AOTX96216-2Ru	76.3	17.0	37.4	21.9	1.1	22.6	0.0	1.078	16.4	Oblong	Russet
AOTX98096-1Ru	78.6	26.2	27.9	24.6	0.0	21.0	0.4	1.076	16.0	Oblong	Russet
AOTX96208-1Ru	79.7	23.4	36.1	20.2	0.0	20.3	0.0	1.078	16.4	Oblong	Russet
ATX02014-1Ru	81.7	26.3	44.4	11.0	0.0	18.3	0.0	1.086	17.9	Oblong	Russet
AOTX95265-1Ru	76.5	19.1	38.4	19.0	0.0	23.5	0.0	1.093	19.0	Oblong	Russet
AOTX96084-1Ru	73.3	33.5	27.6	12.2	0.0	26.4	0.3	1.075	15.8	Oblong	Russet
AOTX02136-1Ru	79.9	35.0	27.6	17.2	0.0	20.1	0.0	1.080	16.7	Oblong	Russet
Average	79.3	19.1	32.9	27.3	2.9	17.3	0.6	1.081	16.9		
L.S.D. (.05)	9.5	7.8	11.1	10.8	4.6	8.6	1.5	0.010	1.9		

Springlake
Table 6c.

Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 20 entries in the Texas Advanced Selection Russet Trial grown near Springlake, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
Russet Norkotah 278	5.7	8.2	1.9	98	100	1.6	4.3	3.7	4.4	13
COTX03261-1Ru	7.3	6.7	1.8	83	92	2.0	3.8	3.7	3.9	10
Russet Norkotah 296	5.7	8.2	1.9	94	99	1.6	4.4	3.9	4.4	6
AOTX03096-1Ru	4.4	9.1	1.7	69	92	1.8	3.8	4.4	3.8	3
Russet Norkotah	4.7	6.9	1.7	89	100	1.9	3.6	2.9	3.7	51
AOTX02066-1Ru	4.0	8.5	1.5	57	82	1.7	3.5	3.9	3.6	4
COTX03285-4Ru	5.0	10.7	1.9	43	78	1.9	3.7	3.7	3.7	9
AOTX02060-1Ru	4.4	7.7	1.3	48	88	2.0	3.5	3.3	3.6	21
AOTX95295-1Ru	4.8	6.9	1.3	60	77	1.9	3.5	3.2	3.5	24
AOTX03134-1Ru	4.2	6.9	1.7	91	92	1.9	3.9	3.4	4.2	25
AOTX95269-1Ru	4.4	6.6	1.6	58	84	2.0	3.4	3.5	3.5	11
AOTX95295-3Ru	5.0	6.0	1.6	81	90	2.0	3.3	2.7	3.4	60
AOTX96075-1Ru	4.0	6.7	1.5	74	84	1.8	3.2	3.1	3.4	38
AOTX96216-2Ru	4.9	6.6	1.3	48	74	2.0	3.6	3.4	3.7	16
AOTX98096-1Ru	3.8	6.6	1.6	77	86	2.0	3.5	3.2	3.6	26
AOTX96208-1Ru	4.5	6.3	1.8	67	74	2.0	3.4	3.0	3.4	30
ATX02014-1Ru	3.5	6.3	1.6	72	83	1.8	3.1	3.7	3.0	6
AOTX95265-1Ru	3.6	6.1	1.7	72	89	1.8	3.0	2.7	3.2	43
AOTX96084-1Ru	3.4	5.3	2.1	94	100	1.5	4.0	3.2	4.0	16
AOTX02136-1Ru	3.0	5.9	1.4	29	65	1.7	2.6	3.5	2.6	13
Average	4.6	7.2	1.6	72	88	1.9	3.6	3.4	3.7	22
L.S.D. (.05)	0.8	0.8	0.3	15	11	0.2	0.3	0.4	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

Springlake Table 6d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobbiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 20 entries in the Texas Advanced Selection Russet Trial grown near Springlake, Texas-2007.

Variety or Selection	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 278	1.2	4.5	4.7	3.7	4.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX03261-1Ru	1.0	3.5	4.5	3.7	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah 296	1.2	4.5	4.7	3.7	4.6	5.0	5.0	5.0	5.0	5.0	5	0	0	0
AOTX03096-1Ru	1.0	4.0	4.3	3.9	4.1	5.0	5.0	5.0	4.9	4.3	0	0	0	0
Russet Norkotah	1.0	4.5	4.7	3.5	4.5	5.0	5.0	5.0	5.0	5.0	3	0	0	0
AOTX02066-1Ru	1.0	3.6	4.0	3.7	3.2	5.0	5.0	5.0	5.0	4.9	3	0	0	0
COTX03285-4Ru	1.0	4.6	4.3	4.0	3.9	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX02060-1Ru	1.0	4.0	4.7	3.5	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX95295-1Ru	1.0	4.5	4.7	3.7	4.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX03134-1Ru	1.0	4.0	3.7	3.1	3.2	5.0	5.0	5.0	5.0	5.0	15	0	0	0
AOTX95269-1Ru	1.0	4.0	4.7	3.7	4.5	5.0	5.0	5.0	5.0	5.0	3	0	0	0
AOTX95295-3Ru	1.0	4.1	4.7	3.8	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX96075-1Ru	1.0	4.0	4.7	3.7	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX96216-2Ru	1.0	4.1	4.7	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX98096-1Ru	1.0	3.7	4.7	3.7	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX96208-1Ru	1.0	3.7	4.7	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX02014-1Ru	1.0	3.7	4.7	3.5	4.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX95265-1Ru	1.0	4.0	4.7	4.0	4.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX96084-1Ru	1.0	3.7	4.7	3.8	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX02136-1Ru	1.0	3.5	4.0	4.0	3.2	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	1.0	4.0	4.6	3.7	4.3	5.0	5.0	5.0	5.0	5.0	1	0	0	0
L.S.D. (.05)		0.1	0.2		0.2					0.2	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 6e. Notes and general rating for all reps of 20 entries in the Texas Advanced Selection Russet Trial grown near Springlake, Texas-2007.

Variety or Selection	Notes Grading Lubbock	Notes Grading College Station	General Rating Grading Lubbock	General Rating Grading College Station
Russet Norkotah 278	10 Zebra BOT, , large tubers, very nice	Rhizoc, , ,	4.5, 4.2, 4.2, 4	4, 4, 4, 4
COTX03261-1Ru	, , heavy set, blocky, light russet skin	light net, pointed, DROP, , ,	3.2, 3.2, 3.7, 2.7	3.7, 3.7, 3.7, 3.7
Russet Norkotah 296	rough, large tubers, BOT+, ,	BOT, , ,	4.2, 4.5, 4.5, 4.2	4.3, 4.3, 4.3, 4.3
AOTX03096-1Ru	20 Zebra, light russet skin, nice shape, , largr tubers, riased eyes, rough	light net, too small short, DROP, , ,	3.7, 3.5, 3.5, 3.5	3, 3, 3, 3
Russet Norkotah	, , , BOT+++	blocky, , ,	4, 4, 4, 4	4.5, 4.5, 4.5, 4.5
AOTX02066-1Ru	keep?, eye brows, too blocky, poor skin, rough	light net, thick, , ,	3.5, 3.2, 3.2, 3.5	4.2, 4.2, 4.2, 4.2
COTX03285-4Ru	very large tubers, no hollow heart on over 18 oz. tubers, , growth cracks on small tubers	light net, DROP, , ,	3.7, 3.2, 3, 2.7	3.2, 3.2, 3.2, 3.2
AOTX02060-1Ru	40 Zebra, nice shape and skin, blocky,	, , ,	4, 4.2, 4.2, 3.7	4, 4, 4, 4
AOTX95295-1Ru	TC, 10 Zebra, , very nice+, nice	BOT, , ,	4.2, 3.7, 4, 3.7	3.8, 3.8, 3.8, 3.8
AOTX03134-1Ru	rot+, 10 Zebra, skinny, , rough, pointed+, light russet skin, drop++	shape?, DROP, , ,	2, 2, 2.7, 2	3, 3, 3, 3
AOTX95269-1Ru	20 Zebra, nice shape, , rough	, , ,	4, 3.9, 4, 3.2	3.8, 3.8, 3.8, 3.8
AOTX95295-3Ru	nice shape, , heavy set, small, nice shape and skin	BOT, , ,	4.2, 4.2, 3.5, 4	4.3, 4.3, 4.3, 4.3
AOTX96075-1Ru	rot, , small, some pointed	small, DROP, , ,	3.2, 3.7, 3.7, 3.7	3.2, 3.2, 3.2, 3.2
AOTX96216-2Ru	, , very nice, nice, small+	DROP, , ,	3.7, 3.5, 3.7, 3.5	3.7, 3.7, 3.7, 3.7
AOTX98096-1Ru	BOT, , , very nice shape and skin++	, , ,	4.2, 4, 4, 4.2	4.2, 4.2, 4.2, 4.2
AOTX96208-1Ru	, , rough, nice small	, , ,	3.7, 3.5, 3, 3.5	3.8, 3.8, 3.8, 3.8
ATX02014-1Ru	drop, low yield, small, nice shape, , raised eyes	DROP, , ,	3, 3, 3.2, 3	3.3, 3.3, 3.3, 3.3
AOTX95265-1Ru	low yield, small, 10 Zebra, nice shape, some rot	small, BOT, , ,	3.2, 3.7, 3.7, 3.5	3.5, 3.5, 3.5, 3.5
AOTX96084-1Ru	nice shape, nice flesh, ,	shape?, Drop?, , ,	4, 3.5, 3.5, 3.5	3.2, 3.2, 3.2, 3.2
AOTX02136-1Ru	, , ,	light net, thick, , , light net, thick	2.5, 3.5, 2.5, 2.5	4.2, 3.2, 4.2, 4.2

Addendum to Tables Springlake 6a, 6b, 6c, 6d, and 6e
Texas Advanced Selection Russet Trial

Location:
Springlake, Texas

Soil Type
Tivoli Fine Sand

Seed Source
Colorado, Oregon, Texas and Idaho

Date:		DAP
Planted	April 1, 2007	
Vines Killed	July 31, 2007	120
Harvested	August 21, 2007	140

Plot Information:

Size of Plots	10' 5"
Spacing Between Hills	9"
Spacing Between Rows	36"
Hills Per Plot	14
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Two-row drag digger, with hand pick up

Fertilizer:
Application:
200-0-17 # per acre

Irrigation:
Center Pivot

Insecticide:
Dimethoate, Oberon 2SC, Venom

Fungicides Applied:
Tops MZ Gaucho, Quadris

Herbicides Applied:
Roundup, Dual, Matrix, Sencor, Select

Environmental Factors:
This trial was subjected to higher than normal precipitation in the fourth week of May and the first week of August. Temperatures were lower than normal for the entire growing season.

Springlake Table 7a. Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 12 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre							General Rating[1]
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz.	Under 4 oz.	Culls/ No.2	Grading
Red LaSoda	502.8	470.7	96.6	232.5	141.6	2.4	29.6	0.0	4.0
Rio Rojo	433.6	389.6	113.1	185.3	91.2	4.6	39.3	0.0	4.2
NDTX4271-5R	377.9	343.4	54.0	167.0	122.3	8.7	25.8	0.0	4.1
ATX00270-2R	291.7	218.9	176.7	37.6	4.6	2.6	70.2	0.0	3.4
NDTX039190-1R	229.9	187.1	43.6	85.5	58.1	23.4	19.4	0.0	3.5
NDTX4847-7R	187.3	166.8	48.2	72.4	46.2	0.0	20.6	0.0	3.3
BTX2332-1R	193.1	162.2	82.5	55.1	24.5	0.0	30.9	0.0	3.4
COTX02172-1R	178.3	131.5	66.4	41.7	23.4	0.0	46.8	0.0	2.8
NDTX731-1R	129.7	87.5	50.6	28.8	8.1	0.0	42.1	0.0	2.9
COTX00411-4R	142.2	72.6	56.7	15.9	0.0	0.0	69.6	0.0	3.0
NDTX049349-12R	96.8	60.5	50.8	9.7	0.0	0.0	36.3	0.0	2.8
COTX03254-2R	drop								
Average	251.2	208.3	76.3	84.7	47.3	3.8	39.1	0.0	3.4
L.S.D. (.05)	46.1	48.4	48.7	52.7	20.3	9.0	21.1		0.4

[1] 1=very poor to 5= excellent

Springlake Table 7b. Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 12 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz..	Under 4 oz.	Culls/ No. 2				
Red LaSoda	93.6	19.0	46.5	28.1	0.5	5.9	0.0	1.065	14.2	Oblong	Red
Rio Rojo	89.7	26.9	41.6	21.2	1.1	9.2	0.0	1.058	12.8	Oblong	Red
NDTX4271-5R	91.0	14.5	44.2	32.3	2.2	6.8	0.0	1.061	13.5	Round	Red
ATX00270-2R	75.1	60.4	13.1	1.6	0.9	24.0	0.0	1.069	14.8	Round	Red
NDTX039190-1R	81.4	18.9	37.2	25.3	10.2	8.4	0.0	1.056	12.5	Round	Red
NDTX4847-7R	89.0	26.6	38.4	24.0	0.0	11.0	0.0	1.054	12.1	Round	Red
BTX2332-1R	83.1	41.6	30.0	11.4	0.0	16.9	0.0	1.057	12.7	Round	Red
COTX02172-1R	73.5	36.5	22.5	14.5	0.0	26.5	0.0	1.053	12.0	Oblong	Red
NDTX731-1R	67.6	40.9	20.5	6.2	0.0	32.4	0.0	1.053	12.0	Round	Red
COTX00411-4R	51.8	39.3	12.6	0.0	0.0	48.2	0.0	1.067	14.4	Oblong	Red
NDTX049349-12R	62.8	54.5	8.3	0.0	0.0	37.2	0.0	1.070	14.9	Oblong	Red
COTX03254-2R	drop										
Average	78.1	34.5	28.6	15.0	1.4	20.6	0.0	1.060	13.3		
L.S.D. (.05)	12.0	16.6	16.5	8.4	2.3	11.5		0.006	1.0		

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 12 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
Red LaSoda	6.3	6.6	2.0	96	100	2.0	4.7	3.4	4.7	6
Rio Rojo	5.6	6.6	2.1	75	98	1.8	4.6	3.9	4.4	1
NDTX4271-5R	4.6	6.9	2.0	67	100	1.7	4.4	3.4	4.1	6
ATX00270-2R	6.4	3.9	2.1	73	96	1.5	4.4	3.9	4.2	3
NDTX039190-1R	12.4	6.7	3.1	23	29	2.0	2.1	3.5	2.1	0
NDTX4847-7R	3.8	5.3	2.1	30	78	1.7	3.5	3.3	3.6	4
BTX2332-1R	3.7	4.9	2.2	65	88	1.6	3.8	3.2	3.7	6
COTX02172-1R	4.5	4.5	2.1	56	75	2.5	3.2	3.1	3.2	8
NDTX731-1R	3.2	3.8	2.3	89	89	1.4	2.1	2.0	2.2	38
COTX00411-4R	4.7	3.1	2.6	66	83	1.8	3.3	2.3	3.5	28
NDTX049349-12R	2.5	3.4	1.9	56	92	1.8	3.9	3.1	3.8	10
COTX03254-2R	drop									
Average	5.2	5.1	2.2	63	84	1.8	3.6	3.2	3.6	10
L.S.D. (.05)	2.6	0.5	0.6	12	12	0.3	0.5	0.5	0.5	11

[1] 1= upright, 2= semiprostrate, 3= prostrate
[2] 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous
[3] 1= very early, 2= early, 3= medium, 4=late, 5= very late
[4] 1=very small, 2=small, 3=medium, 4=large, 5=very large

Springlake Table 7d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobbiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 12 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2007.

Variety or Selection	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	1.0	3.5	1.0	1.9	3.5	5.0	5.0	5.0	5.0	3.5	10	0	0	0
Rio Rojo	1.0	3.1	1.0	4.1	4.6	5.0	5.0	5.0	5.0	3.4	0	0	0	0
NDTX4271-5R	1.0	2.0	1.0	4.2	4.5	5.0	5.0	5.0	5.0	3.6	0	0	0	0
ATX00270-2R	1.0	2.1	1.0	4.5	3.9	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX039190-1R	1.0	1.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	3.4	0	0	0	0
NDTX4847-7R	1.0	2.2	1.0	3.8	4.5	5.0	5.0	5.0	5.0	3.8	0	0	0	0
BTX2332-1R	1.0	1.7	1.0	4.0	3.9	5.0	5.0	5.0	5.0	3.5	0	0	0	0
COTX02172-1R	1.0	3.5	1.0	4.0	3.6	5.0	5.0	5.0	5.0	3.6	0	0	0	0
NDTX731-1R	1.0	1.7	1.0	3.0	3.8	5.0	5.0	5.0	5.0	4.5	0	0	0	0
COTX00411-4R	1.0	3.5	1.0	3.9	3.9	5.0	5.0	5.0	5.0	3.9	0	0	0	0
NDTX049349-12R	1.0	3.4	1.0	3.8	3.5	5.0	5.0	5.0	5.0	3.5	0	0	0	0
COTX03254-2R	drop													
Average	1.0	2.6	1.0	3.7	4.0	5.0	5.0	5.0	5.0	3.8	1	0	0	0
L.S.D. (.05)		0.2		0.2	0.1					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

Springlake Table 7e. Notes and general rating for all reps of 12 entries in the Texas Advanced Red Selection Trial grown near Springlake, Texas-2007.

Variety or Selection	Notes Grading	General Rating Grading
Red LaSoda	stem indentation, nose, nice flesh, ,	4, 4, 4, 4
Rio Rojo	, some road map, nice flesh, BOT, smoooth, light set, flat	4.5, 4, 4.5, 3.8
NDTX4271-5R	, , nice, can oversize, rhizoc, BOT	4.3, 4, 3.7, 4.5
ATX00270-2R	low yield, poor skin finish, drop, small, road map+, poor skin, nice flesh, rhizoc, smooth, good skin set	3, 3.4, 3.3, 3.7
NDTX039190-1R	close set, oversize, early, TC, keep, close set, oversize, early, TC, keep	3.5, 3.5, 3.5, 3.5
NDTX4847-7R	, low yeild, oval, nice, stem indentation, nice flesh	3.7, 3.3, 3, 3.3
BTX2332-1R	, Keep+, smooth, oval, TC, nice flesh, small, light set	3, 3.5, 3.5, 3.7
COTX02172-1R	keep?, , heat sprouts,nice flesah, , drop?stem indentations, low yield	3.2, 2.7, 2.7, 2.5
NDTX731-1R	drop+, , stem indentation, nose, low yield, rough, deep nose	2.5, 3.2, 2.7, 3.2
COTX00411-4R	silver scurf, small, nice flesh, very nice flesh, lenticels, poor shape, drop	3, 3, 3, 3
NDTX049349-12R	poor shape, drop+, low yield, small, poor shape, drop+, low yield, small	2.5, 3, 2.5, 3
COTX03254-2R	drop	, , ,

Addendum to Tables Springlake 7a, 7b, 7c, 7d, and 7e
Texas Advanced Red Selection Trial

Location:
Springlake, Texas

Soil Type
Tivoli Fine Sand

Seed Source
Colorado, Oregon, Texas and Idaho

Date:		DAP
Planted	April 1, 2007	
Vines Killed	July 11, 2007	100
Harvested	July 24, 2007	113

Plot Information:

Size of Plots	10' 5"
Spacing Between Hills	9"
Spacing Between Rows	36"
Hills Per Plot	14
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Two-row drag digger, with hand pick up

Fertilizer:
Application:
126-0-17 # per acre

Irrigation:
Center Pivot

Insecticide:
Dimethoate, Oberon 2SC, Venom

Fungicides Applied:
Tops MZ Gaucho, Quadris

Herbicides Applied:
Roundup, Dual, Matrix, Sencor, Select

Environmental Factors:
This trial was subjected to higher than normal precipitation in the fourth week of May and the first week of August. Temperatures were lower than normal for the entire growing season.

Springlake Table 8a. Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 35 entries in the Texas Advanced Specialty trial grown near Springlake, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz.	Under 4 oz.	Culls/ No.2	General Rating[1] Grading
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.				
COTX03079-1W/Y	472.4	381.8	121.3	132.3	128.3	0.0	90.6	0.0	4.2
COTX04015-3W/Y	408.2	362.6	84.7	158.9	119.0	0.0	45.6	0.0	3.6
Yukon Gold	378.9	337.6	115.7	97.7	124.2	4.8	36.4	0.0	3.9
BTX1544-2W/Y	367.6	303.3	133.1	106.5	63.7	0.0	64.3	0.0	4.2
ATTX98468-5R/Y	365.2	280.9	169.0	106.5	5.4	0.0	84.3	0.0	4.5
TX03198-2Y-R/Y	324.7	236.4	81.1	103.7	51.6	0.0	88.3	0.0	3.6
TX1674-1W/Y	272.8	226.2	103.2	113.4	9.7	0.0	46.5	0.0	3.9
TX1523-1Ru/Y	244.3	223.4	23.4	109.7	90.3	5.2	15.6	0.0	4.2
COTX03187-1W	278.0	216.7	105.9	76.9	33.9	0.0	61.3	0.0	4.4
TX03185-1R/R	272.3	214.6	63.7	107.7	43.2	0.0	57.7	0.0	4.1
COTX03094-1R/Y-R	262.2	194.7	85.0	109.7	0.0	0.0	67.5	0.0	3.4
COTX04050-1P/P	388.9	193.7	141.7	52.0	0.0	0.0	195.2	0.0	3.5
BTX1749-1W/Y	227.9	186.7	69.0	84.3	33.5	0.0	41.1	0.0	3.6
COTX03025-1P/P	215.8	165.8	67.8	64.1	33.9	0.0	50.0	0.0	3.0
ATTX961014-1AR/Y	205.3	155.7	62.1	50.0	43.6	0.0	49.6	0.0	3.7
PTTX05PG07-3R/R	202.3	150.0	110.5	39.5	0.0	0.0	52.2	0.0	3.3
All Blue	278.6	143.1	87.6	43.1	12.4	0.0	135.5	0.0	2.0
NDTX4756-1R/Y	198.2	135.6	71.3	55.7	8.7	0.0	62.7	0.0	4.0
ATTX99325-1P	151.1	126.9	52.7	47.9	26.3	0.0	24.2	0.0	3.9
PTTX05PG06-2R/R	160.7	104.9	82.1	22.8	0.0	0.0	55.9	0.0	3.1
PORTX03PG25-2R/P	151.4	96.8	65.3	31.5	0.0	0.0	54.6	0.0	3.2
COTX03047-1P/P	132.5	86.3	46.8	39.5	0.0	0.0	46.2	0.0	3.2
ATTX98491-4YRsplash/	111.3	72.6	46.0	26.6	0.0	0.0	38.7	0.0	3.6
ATTX98444-16R/Y	143.6	72.3	42.5	29.8	0.0	0.0	71.3	0.0	3.7
ATTX98462-3R/Y	103.7	69.2	24.4	41.3	3.4	0.0	34.5	0.0	3.5
COTX03025-2P/P	162.3	61.7	49.4	12.3	0.0	0.0	100.6	0.0	3.2
UMTX383-3WRE/Y	112.1	57.7	48.0	9.7	0.0	0.0	54.5	0.0	3.6
PTTX05PG06-1R/R	86.5	39.5	11.7	27.8	0.0	0.0	47.0	0.0	3.0
COTX03137-1P/P	76.2	39.4	28.5	10.9	0.0	0.0	36.8	0.0	3.0
PTTX05PG07-1W	40.1	20.4	16.3	4.0	0.0	0.0	19.8	0.0	3.5
COTX03137-2R/R	74.6	18.6	15.1	3.4	0.0	0.0	56.1	0.0	3.2
COTX03119-1R/R	23.4	16.5	7.7	8.9	0.0	0.0	6.9	0.0	3.5
PTTX05PG07-2P/R	43.4	14.3	14.3	0.0	0.0	0.0	29.0	0.0	3.1
PTTX05PG11-2R/Y	21.8	1.6	1.6	0.0	0.0	0.0	20.2	0.0	3.7
ATX9132-2W/Y	Drop								
Average	252.7	189.5	82.2	74.0	33.2	0.4	62.8	0.0	3.6
L.S.D. (.05)	39.8	31.3	33.2	30.7	17.1	1.9	21.3		0.2

[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, tuber type and skin type of 35 entries in the Texas Advanced Specialty trial grown near Springlake, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Tuber Type	Skin Type
	Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz..	Under 4 oz.	Culls/ No. 2		
COTX03079-1W/Y	81.0	25.3	28.2	27.6	0.0	19.0	0.0	Oblong	White
COTX04015-3W/Y	88.9	20.9	38.8	29.2	0.0	11.1	0.0	Oblong	White
Yukon Gold	89.0	29.6	26.5	32.9	1.2	9.8	0.0	Oblong	White
BTX1544-2W/Y	82.4	35.8	29.0	17.6	0.0	17.6	0.0	Oblong	White
ATTX98468-5R/Y	77.2	46.2	29.5	1.5	0.0	22.8	0.0	Oblong	Red
TX03198-2Y-R/Y	73.5	24.8	32.1	16.6	0.0	26.5	0.0	Oblong	Yellow-Red
TX1674-1W/Y	82.9	37.7	41.6	3.6	0.0	17.1	0.0	Oblong	White
TX1523-1Ru/Y	91.4	10.0	43.7	37.7	2.2	6.4	0.0	Oblong	Russet
COTX03187-1W	78.0	36.9	28.9	12.1	0.0	22.0	0.0	Long	White
TX03185-1R/R	79.0	22.7	37.4	18.9	0.0	21.0	0.0	Oblong	Red
COTX03094-1R/Y-R	74.2	32.3	41.9	0.0	0.0	25.8	0.0	Long	Red
COTX04050-1P/P	50.0	36.1	14.0	0.0	0.0	50.0	0.0	Oblong	Purple
BTX1749-1W/Y	82.0	30.4	36.9	14.7	0.0	18.0	0.0	Oblong	White
COTX03025-1P/P	76.8	31.2	29.9	15.7	0.0	23.2	0.0	Oblong	Purple
ATTX961014-1AR/Y	76.2	30.1	24.6	21.5	0.0	23.8	0.0	Oblong	Red
PTTX05PG07-3R/R	74.4	56.0	18.4	0.0	0.0	25.6	0.0	Long	Red
All Blue	50.9	31.3	15.2	4.5	0.0	49.1	0.0	Long	Purple
NDTX4756-1R/Y	68.3	36.0	28.1	4.2	0.0	31.7	0.0	Oblong	Red
ATTX99325-1P	84.1	35.6	32.2	16.4	0.0	15.9	0.0	Oblong	Purple
PTTX05PG06-2R/R	64.9	51.2	13.7	0.0	0.0	35.1	0.0	Long	Red
PORTX03PG25-2R/P	63.9	43.4	20.5	0.0	0.0	36.1	0.0	Long	Red
COTX03047-1P/P	65.3	35.3	30.1	0.0	0.0	34.7	0.0	Long	Purple
ATTX98491-4YRsplash/Y	65.2	41.3	23.9	0.0	0.0	34.8	0.0	Round	Red-SPL
ATTX98444-16R/Y	49.8	29.2	20.6	0.0	0.0	50.2	0.0	Oblong	Red
ATTX98462-3R/Y	66.4	24.4	39.4	2.6	0.0	33.6	0.0	Oblong	Red
COTX03025-2P/P	38.1	30.4	7.7	0.0	0.0	61.9	0.0	Round	Purple
UMTX383-3WRE/Y	51.5	43.3	8.3	0.0	0.0	48.5	0.0	Oblong	WhiteRE
PTTX05PG06-1R/R	47.0	15.6	31.5	0.0	0.0	53.0	0.0	Long	Red
COTX03137-1P/P	52.0	38.4	13.6	0.0	0.0	48.0	0.0	Long	Purple
PTTX05PG07-1W	48.6	40.6	8.1	0.0	0.0	51.4	0.0	Long	White
COTX03137-2R/R	24.0	19.4	4.6	0.0	0.0	76.0	0.0	Long	Red
COTX03119-1R/R	76.9	35.2	41.7	0.0	0.0	23.1	0.0	Long	Red
PTTX05PG07-2P/R	34.3	34.3	0.0	0.0	0.0	65.7	0.0	Long	Purple
PTTX05PG11-2R/Y	9.1	9.1	0.0	0.0	0.0	90.9	0.0	Long	Red
ATX9132-2W/Y	Drop								
Average	73.4	33.3	29.0	11.1	0.1	26.4	0.0		
L.S.D. (.05)	11.7	13.8	12.0	7.6	0.7	11.7			

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 35 entries in the Texas Advanced Specialty trial grown near Springlake, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
COTX03079-1W/Y	7.8	5.3	2.3	75	96	1.6	4.2	4.1	4.0	5
COTX04015-3W/Y	6.0	6.2	1.9	69	92	1.9	3.9	4.5	3.8	0
Yukon Gold	5.6	6.2	2.2	74	90	1.2	3.9	3.1	3.7	5
BTX1544-2W/Y	5.8	5.3	1.9	95	100	1.4	4.2	3.0	3.9	23
ATTX98468-5R/Y	7.8	4.3	2.4	85	92	1.9	3.7	2.7	3.7	33
TX03198-2Y-R/Y	6.2	4.6	2.1	92	94	2.3	3.6	3.4	3.5	18
TX1674-1W/Y	5.2	4.8	2.3	72	90	1.8	3.4	3.6	3.4	9
TX1523-1Ru/Y	2.8	7.9	1.8	73	93	1.6	3.9	3.9	3.9	5
COTX03187-1W	6.5	3.6	2.5	81	100	1.5	4.2	4.3	3.9	3
TX03185-1R/R	6.1	4.8	2.4	63	77	1.6	3.5	4.1	3.5	0
COTX03094-1R/Y-R	8.9	2.7	2.6	70	92	1.9	4.4	4.9	4.4	0
COTX04050-1P/P	11.7	2.9	2.1	72	96	1.5	4.3	5.0	4.2	0
BTX1749-1W/Y	4.8	5.1	1.9	57	78	2.1	3.3	2.8	3.4	28
COTX03025-1P/P	4.5	4.4	2.1	57	92	1.5	4.3	4.3	4.4	3
ATTX961014-1AR/Y	4.1	5.1	2.0	74	84	2.0	3.2	3.2	3.3	18
PTTX05PG07-3R/R	6.8	2.6	2.9	68	96	1.7	4.1	4.8	4.0	0
All Blue	8.1	2.9	3.0	95	100	1.6	4.6	5.0	4.7	0
NDTX4756-1R/Y	4.5	3.9	2.0	89	95	2.1	3.4	3.3	3.6	20
ATTX99325-1P	3.7	4.8	2.2	39	70	1.8	2.7	2.9	2.9	19
PTTX05PG06-2R/R	6.2	2.5	2.8	67	86	2.0	3.6	4.8	3.7	0
PORTX03PG25-2R/P	6.2	2.2	2.5	63	92	1.6	3.8	3.9	3.6	5
COTX03047-1P/P	5.6	2.2	2.7	70	90	2.1	3.9	3.4	3.8	10
ATTX98491-4YRsplash/Y	8.1	3.3	4.8	61	65	2.3	2.4	2.7	2.5	25
ATTX98444-16R/Y	7.4	3.5	3.4	50	56	1.5	2.8	3.2	3.0	15
ATTX98462-3R/Y	2.8	4.1	2.1	63	77	1.7	3.1	2.7	3.1	21
COTX03025-2P/P	5.4	2.7	2.4	71	91	2.1	3.6	3.9	3.8	9
UMTX383-3WRE/Y	3.7	3.4	2.5	67	75	2.1	2.4	3.2	2.9	18
PTTX05PG06-1R/R	7.4	1.7	3.3	34	61	1.7	3.4	4.9	3.4	0
COTX03137-1P/P	3.4	2.0	2.4	85	98	1.9	4.0	3.6	3.9	13
PTTX05PG07-1W	3.2	2.1	3.3	27	53	2.4	1.9	4.0	2.0	3
COTX03137-2R/R	5.4	1.3	2.6	80	100	1.8	4.2	3.9	3.9	5
COTX03119-1R/R	3.8	2.4	6.3	8	23	2.0	1.3	3.6	1.5	10
PTTX05PG07-2P/R	4.3	1.4	3.2	43	58	2.5	2.7	3.6	2.9	9
PTTX05PG11-2R/Y	7.9	0.9	6.0	6	31	2.3	1.0	4.6	1.5	0
ATX9132-2W/Y	Drop									
Average	6.1	4.2	2.4	71	88	1.7	3.7	3.7	3.7	10
L.S.D. (.05)	3.2	0.4	1.5	17	17	0.3	0.6	0.6	0.5	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 8d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobbiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 35 entries in the Texas Advanced Specialty trial grown near Springlake, Texas-2007.

Variety or Selection	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
COTX03079-1W/Y	3.1	3.5	2.0	4.0	1.5	5.0	5.0	5.0	5.0	3.4	0	0	0	3
COTX04015-3W/Y	3.3	3.6	1.5	4.5	1.5	5.0	5.0	5.0	5.0	2.9	0	0	0	0
Yukon Gold	2.8	3.5	1.4	3.9	1.7	5.0	5.0	5.0	5.0	5.0	3	0	0	5
BTX1544-2W/Y	3.0	3.5	2.0	3.7	1.5	4.9	5.0	5.0	5.0	3.7	15	0	0	0
ATTX98468-5R/Y	3.3	3.2	1.0	3.7	3.1	5.0	5.0	5.0	5.0	2.9	0	0	0	0
TX03198-2Y-R/Y	2.7	3.5	1.0	3.8	3.8	5.0	5.0	5.0	5.0	4.0	0	0	0	0
TX1674-1W/Y	2.7	3.6	2.0	4.5	1.5	5.0	5.0	5.0	5.0	3.1	0	0	0	0
TX1523-1Ru/Y	2.9	3.5	4.7	4.0	1.5	5.0	5.0	5.0	5.0	3.0	0	0	0	0
COTX03187-1W	1.0	4.5	2.0	4.0	1.5	5.0	5.0	5.0	5.0	3.9	0	0	0	0
TX03185-1R/R	3.6	3.4	1.7	3.4	4.5	5.0	5.0	5.0	5.0	4.0	0	0	0	0
COTX03094-1R/Y-R	3.0	3.9	1.0	3.4	4.0	5.0	5.0	5.0	5.0	3.7	0	0	0	0
COTX04050-1P/P	4.6	3.5	1.7	4.0	4.8	5.0	5.0	5.0	5.0	3.2	0	0	0	0
BTX1749-1W/Y	2.9	3.5	2.0	4.0	1.5	5.0	5.0	5.0	5.0	3.8	0	0	0	0
COTX03025-1P/P	3.6	3.5	2.0	4.0	4.8	5.0	5.0	5.0	5.0	3.3	0	0	0	0
ATTX961014-1AR/Y	3.0	3.5	1.0	3.8	3.6	5.0	5.0	5.0	5.0	4.1	0	0	0	0
PTTX05PG07-3R/R	2.7	4.2	1.0	3.7	4.0	5.0	5.0	5.0	5.0	3.4	0	0	0	0
All Blue	3.0	4.0	1.0	2.3	4.7	5.0	5.0	5.0	5.0	4.2	0	0	0	0
NDTX4756-1R/Y	2.8	3.4	1.0	3.7	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX99325-1P	1.0	3.7	1.0	4.0	5.0	5.0	5.0	5.0	5.0	2.9	0	0	0	0
PTTX05PG06-2R/R	2.7	4.0	1.0	4.0	4.4	5.0	5.0	5.0	5.0	3.4	0	0	0	0
PORTX03PG25-2R/P	3.5	4.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	3.5	0	0	0	0
COTX03047-1P/P	4.5	4.0	1.0	4.0	4.8	5.0	5.0	5.0	5.0	4.4	0	0	0	0
ATTX98491-4YRsplash/Y	3.7	2.0	1.0	4.0	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98444-16R/Y	3.7	3.5	1.0	4.0	4.0	5.0	5.0	5.0	5.0	3.9	0	0	0	0
ATTX98462-3R/Y	3.0	3.2	1.0	4.1	3.7	5.0	5.0	5.0	5.0	4.5	0	0	0	0
COTX03025-2P/P	4.0	2.5	1.0	4.0	4.7	5.0	5.0	5.0	5.0	3.4	0	0	0	0
UMTX383-3WRE/Y	3.3	2.6	1.0	4.0	1.9	5.0	5.0	5.0	5.0	4.0	0	0	0	0
PTTX05PG06-1R/R	2.0	4.2	1.0	4.0	4.0	5.0	5.0	5.0	4.6	4.0	0	0	0	0
COTX03137-1P/P	4.0	4.0	1.0	3.0	4.5	5.0	5.0	5.0	5.0	4.0	0	0	0	0
PTTX05PG07-1W	1.0	4.5	1.0	4.0	1.4	5.0	5.0	5.0	5.0	4.5	0	0	0	0
COTX03137-2R/R	3.5	4.0	1.0	3.7	4.5	5.0	5.0	5.0	5.0	4.0	0	0	0	0
COTX03119-1R/R	3.5	4.0	1.0	4.5	4.5	5.0	5.0	5.0	5.0	3.4	0	0	0	0
PTTX05PG07-2P/R	3.0	4.2	1.0	3.7	4.0	5.0	5.0	5.0	5.0	3.7	0	0	0	0
PTTX05PG11-2R/Y	3.6	4.0	1.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX9132-2W/Y	Drop													
Average	3.0	3.6	1.4	3.9	3.4	5.0	5.0	5.0	5.0	3.8	1	0	0	0
L.S.D. (.05)	0.1	0.2	0.1	0.1	0.1					0.3	3			

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

Springlake Table 8e. Notes and general rating for all reps of 35 entries in the Texas Advanced Specialty trial grown near Springlake, Texas-2007.

Variety or Selection	Notes Grading	General Rating Grading
COTX03079-1W/Y	yield+,pointed to stem end, check TC, keep+, BOT, feathering,	4, 4.5, 4, 4.2
COTX04015-3W/Y	keep, TC, nice yield, flat, pointed, keep, TC, nice yield, flat, pointed	3.5, 3.7, 3.5, 3.7
Yukon Gold	nice, BOT, , ,	3.5, 4, 4, 4
BTX1544-2W/Y	Rhizoc, , ,	3.8, 4.5, 4.2, 4.2
ATTX98468-5R/Y	, check TC, BOT, deprection at stem end,	4.5, 4.5, 4.5, 4.5
TX03198-2Y-R/Y	smooth, red eyes, keep, lenticels, riased eyes, smooth, red eyes, keep, lenticels, riased eyes	3.8, 3.4, 3.8, 3.4
TX1674-1W/Y	red eyes, smooth, flat, smooth,	4, 3.8, 4, 3.8
TX1523-1Ru/Y	very nice, BOT, , feathering, light set,	4.5, 4.2, 4, 4.2
COTX03187-1W	fingerling, keep, nice, TC, nice shape and yield, BOT, ,	4, 4.8, 4.5, 4.2
TX03185-1R/R	some pointed, red flesh with yellow pith, road map, yield+, keeep+, some pointed, red flesh with yellow pith, road map,	4.4, 3.7, 4.4, 3.7
COTX03094-1R/Y-R	keep, large tubers are ugly, , fingerling, pointed,	3.8, 3.36, 3.2, 3.2
COTX04050-1P/P	yield, nice skin, drop (heat sprouts), heat sprout++,	3.5, 3.5, 3.3, 3.5
BTX1749-1W/Y	yield, , ,	3.8, 3.7, 3.2, 3.5
COTX03025-1P/P	, road map, poor skin finish, drop, All Blue flesh but darker,	3, 3, 3, 3
ATTX961014-1AR/Y	Keep, , Nice flesh,	3.5, 3.8, 3.7, 3.7
PTTX05PG07-3R/R	fingerling, rough, drop?, keep+, ,	3, 3.5, 3.2, 3.6
All Blue	heat sprouts, rough, blue with white pith,	2, 2, 2, 2
NDTX4756-1R/Y	keep, sliver scurf, , , BOT+	4, 3.8, 4, 4
ATTX99325-1P	smother, nice, keep+, poor skin set, , very nice	3.6, 3.8, 4, 4
PTTX05PG06-2R/R	, fingerling, bad heat sprouts++, nice shape, drop++++,	3, 3.2, 3, 3
PORTX03PG25-2R/P	fingerling, rough, keep?, , ,	3.2, 3.2, 3.3, 3.2
COTX03047-1P/P	fingerling,ugly, some raised eyes, rough, keep,	3, 3, 3.5, 3.2
ATTX98491-4YRsplas	low yield, red splash, keep, boiler, ,	3.7, 3.5, 3.5, 3.5
ATTX98444-16R/Y	Total wt. Ok, Nice, Keep, BOT, Check TC,	3.5, 4, 3.8, 3.5
ATTX98462-3R/Y	smooth, Keep, drop?, weird tuber shape, keep, nice flesh,	3.5, 3.2, 3.8, 3.5
COTX03025-2P/P	smooth, round, road map, keep for flesh, , poor skin finish	3.2, 3.2, 3.2, 3.2
UMTX383-3WRE/Y	red splash, keep, ,	3.6, 3.5, 3.6, 3.6
PTTX05PG06-1R/R	fingerling,pointed, curved, light red flesh, hard, russeting, knobs, drop++, heat sprouts	3.1, 3, 3, 3
COTX03137-1P/P	fingerling, rough, drop, keep?, pointed, eye brows,	3, 3, 3, 3
PTTX05PG07-1W	fingerling, smooth, keep+, TC, pointed, curved,	3.7, 3.5, 3.4, 3.5
COTX03137-2R/R	fingerling, small did not size, rough, keep, ,	3.2, 3.2, 3.2, 3.2
COTX03119-1R/R	fingerling, low yield, smooth, keep, , fingerling, low yield, smooth, keep,	3.5, 3.5, 3.5, 3.5
PTTX05PG07-2P/R	curved, poor skin finish+,road map, nice internals, poor skin finish, drop+,	3.2, 3, 3, 3
PTTX05PG11-2R/Y	fingerling, low yield, nice flesh, keeep+, fingerling, low yield, nice flesh, keeep+	3.8, 3.6, 3.8, 3.6
ATX9132-2W/Y	Drop	, , ,

Addendum to Tables Springlake 7a, 7b, 7c, 7d, and 7e
Texas Advanced Specialty Trial

Location:
Springlake, Texas

Soil Type
Tivoli Fine Sand

Seed Source
Colorado, Oregon, Texas and Idaho

Date:		DAP
Planted	April 1, 2007	
Vines Killed	July 11, 2007	100
Harvested	July 24, 2007	113

Plot Information:

Size of Plots	10' 5"
Spacing Between Hills	9"
Spacing Between Rows	36"
Hills Per Plot	14
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Two-row drag digger, with hand pick up

Fertilizer:
Application:
126-0-17 # per acre

Irrigation:
Center Pivot

Insecticide:
Dimethoate, Oberon 2SC, Venom

Fungicides Applied:
Tops MZ Gaucho, Quadris

Herbicides Applied:
Roundup, Dual, Matrix, Sencor, Select

Environmental Factors:
This trial was subjected to higher than normal precipitation in the fourth week of May and the first week of August. Temperatures were lower than normal for the entire growing season.

2007 Dalhart Trials

Summary of growing conditions:

These trials were planted 10 miles southwest of Dalhart. Temperature was average for the season. Precipitation was lower than normal during the last week of April, the first three weeks of May, the first, third, and fourth weeks of June, and the second week of August. Precipitation was higher than normal during the second week of April, the second week of May, the second and forth weeks of June, and the first week of August (Figure 5).

Trials conducted:

- Western Regional Chipping
- Southwestern Regional Chipping
- Texas Advanced Chipping Selection
- 2006 Chipping Selection
- Texas Advanced Russet Selection
- 2006 Russet Selection
- Texas Advanced Red Selection
- 2006 Red Selection
- Texas Advanced Specialty Selection
- 2006 Specialty Selection
- HZPC Variety Trial

WESTERN REGIONAL COOPERATIVE CHIPPING TRIAL

This trial consisted of 7 entries, including Atlantic, Ivory Crisp, and Chipeta as check varieties.

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

- The entry receiving the highest general rating, best of trial designation for appearance, and had 67 percent good chips was Ivory Crisp, while Atlantic, AC97097-14W, and Chipeta also had high general ratings for chip appearance (Tables 1a, 1e, and 1f).

- Ivory Crisp and Atlantic had the highest total yield, marketable yield, 6-10 oz., and 10-18 oz. tubers (Table 1a)

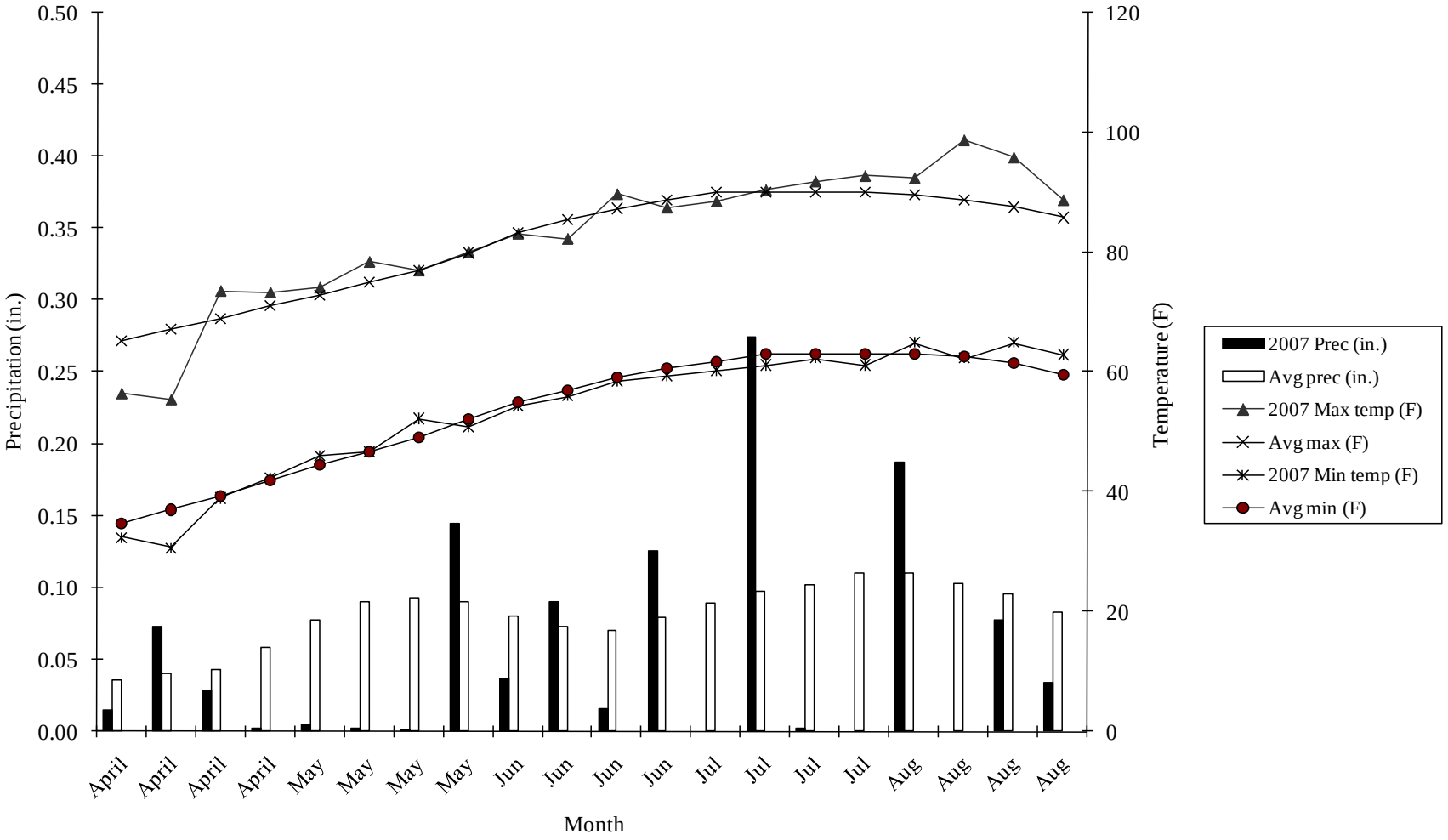

Figure 4. Weekly minimum/maximum temperatures and precipitation for the 2007-growing season near Dalhart, Texas compared to the average minimum/maximum temperatures and precipitation (1971-2000).

- Ivory Crisp and CO97043-14W had the highest yield of 4-6 oz. tubers. CO97043-14W and CO96141-4W had the highest yield of less than 4 oz. tubers, while CO97065-4W and Atlantic had the highest yield of culls/No. 2 tubers (Table 1a).

- Ivory Crisp and Atlantic had the highest percentage of marketable yield, CO97043-14W and Chipeta had the highest percentage of 4-6 oz. tubers (Table 1b).

- Atlantic and AC97097-14W had the highest percentage of 6-10 oz. tubers, while Ivory Crisp and Atlantic had the highest percentage of 10-18 oz. tubers. CO96141-4W and Chipeta had the highest percentage of less than 4 oz. tubers, while CO97065-7W had the highest percentage of culls/No. 2 tubers (Table 1b).

- Atlantic and CO97065-7W had the highest specific gravity and percent solids (Table 1b).

- CO97043-14W and Ivory Crisp had the highest average tubers per plant. Atlantic and AC97097-14W had the highest average tuber weight (Table 1c).

- AC97097-14W and Chipeta were the latest maturing entries, while CO96141-4W and CO97065-7W were the earliest (Table 1c).

- Atlantic had 13 percent internal brownspot (Table 1d).

- All of the entries appeared to exhibited zebra chip, while those exhibiting the most extreme zebra expression were Atlantic and CO96141-4W (Tables 1e and 1f).

- Overall, Ivory Crisp produced the highest quality chip (Table 1f).

Comments on entries:

- Ivory Crisp — Round White, early, BOT+, nice yield, very nice, Yield+, CR[1]=1.
- Atlantic — Round White, nice, early, bad rep, buff, nice shape and skin, yield+, large tubers, poor internals, CR=1.
- AC97097-14W — Oblong White, some rot, small, late, very large tubers, oblong, lenticels, poor skin, CR=1.
- CO97043-14W — Oblong White, nice, early, small, CR=1+.
- CO97065-7W — Round White, low yield, many small tubers, nice, nice shape, CR=1.
- Chipeta — Round White, late, very small, CR=1.
- CO96141-4W — Round White, early, very nice, CR=1+.

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

Summary:

The top performing entries based on all factors including the chipping results were Ivory Crisp and CO97043-14W.

SOUTHWESTERN REGIONAL COOPERATIVE CHIPPING TRIAL

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

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

- Atlantic had the highest general rating and best of trial designations for appearance (Table 2e).
- Atlantic and AC99213-8W had the highest total yield and 6-10 oz. tubers, while TX1475-3W and Atlantic had the highest marketable yield and 10-18 oz. tubers. TX1475-3W and AC99213-8W had the highest yield of 4-6 oz. tubers (Table 2a).
- TX1475-3W had the highest yield of over 18 oz. tubers. AC99213-8W and Chipeta had the highest yield of less than 4 oz. tubers, while Atlantic and TX1475-3W had the highest yield of culls/No. 2 tubers. (Table 2a).
- Atlantic and TX1475-8W had the highest percentage of marketable and 10-18 oz. tubers, while TX1475-3W and AC99213-8W had the highest percentage of 4-6 oz. tubers. Atlantic and Chipeta had the highest percentage of 6-10 oz. tubers (Table 2a).
- TX1475-3W had the highest percentage of over 18 oz. tubers, while AC99213-8W and Chipeta had the highest percentage of less than 4oz. tubers. TX1475-3W had the highest percentage of culls/No.2 tubers (Table 2b).
- Atlantic had the highest specific gravity and percent solids (Table 2b).
- AC99213-8W had the highest average tubers per plant and the lowest average tuber weight, while TX1475-3W had the higher average tuber weights (Table 2c).
- Chipeta and AC99213-8W were the latest maturing, while TX1475-3W was the earliest (Table 2c).
- TX1475-3W had 8 percent hollow heart, while Atlantic had the highest percent of internal brownspot (Table 2d).
- All of the entries had some Zebra chip defects, while Atlantic had the highest at 18 percent Zebra chip (Tables 2e and 2f).

Comments on entries:

- AC99213-8W Round White, very late, very small, lenticels, buff, nice shape, CR[1]=1.
- Atlantic Round White, nice, early, bad rep, buff, nice shape and skin, yield+, large tubers, poor internals, CR=1.
- Chipeta Round White, late, very small, CR=1.
- TX1475-3W Round White, large tubers, lenticels, CR=1.

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

Summary:

AC99213-8W was overall the best chipper of the group.

TEXAS ADVANCED SELECTION CHIPPING TRIAL

The trial consisted of 17 entries, including the check variety Atlantic. All of the seed was from Dalhart.

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

- The outstanding entries for this trial based on general ratings, best of trial designations, and chip quality were Atlantic and AOTX95309-3W (Table 3a).
- Atlantic, ATX85404-8W and AOTX95309-1W received high general ratings and best of trial designations for appearance. NDTX4930-5W, COTX03270-1W, COTX03194-2W received best of trial designations for appearance, while TX03196-1W received a high general rating for appearance (Tables 3a, 3e, and 3f).
- NDTX4930-5W and ATTX95490-2W had the highest total yield and 10-18 oz. tubers. NDTX4930-5W and Atlantic had the highest marketable yield and 6-10 oz. tubers, while COTX00328-1Pu/Ypu and NDTX4930-5W had the highest yield of 4-6 oz. tubers (Table 3a).
- NDTX4930-5W had the highest yield of over 18 oz. tubers. TX03196-1W and ATX85404-8W had the highest yield of less than 4 oz. tubers. ATTX95490-2W had the highest yield of culls/No.2 tubers (Table 3a).
- COTX02377-1W and ATX85404-8W had the highest percentage of total marketable yield. COTX00328-1Pu/Ypu had the highest percentage of 4-6 oz. tubers, while Atlantic and COTX03245-1W had the highest percentage of 6-10 oz. (Table 3b).

- Atlantic and ATTX95490-2W had the highest percentage of 10-18 oz. tubers, while NDTX4930-5W had the highest percentage of over 18 oz. tubers. COTX03194-3W and ATTX98466-5R/W-R had the highest percentage of less than 4 oz. tubers (Table 3b).

- ATTX95490-2W and AOTX95309-3W had the highest percentage of culls/No.2 tubers (Table 3b).

- ATX85404-8W and Atlantic had the highest specific gravity and percent solids (Table 3b).

- COTX00328-1Pu/Ypu had the highest average tubers per plant, while NDTX6773-1W had the lowest. NDTX4930-5W and ATTX95490-2W had the highest average tuber weight, while ATTX98466-5R/W-R had the lowest (Table 3c).

- ATX85404-8W, COTX02377-1W, NDTX7571-3AW, COTX03245-1W, COTX03194-2W, and COTX03194-3W were the latest maturing entries, while NDTX4930-5W, COTX00328-1Pu/Ypu, TX03196-1W, PATX99P10-1R/R, NDTX6773-1W, and ATTX98466-5R/W-R were the earliest maturing (Table 3c).

- COTX03270-1W and AOTX95309-3W had the highest percentage of good chips by weight (Table 3f).

Comments on entries:

- AOTX95309-1W Round White, big tuber, oblong, BOT+, CR[1]=1.

- AOTX95309-3W Round White, small tubers, more round, BOT, small, nice shape, CR=1+.

- ATTX95490-2W Oblong White, very early, large tubers, high yield, heat sprouts, BOT, poor shape, poor flesh, drop, CR=3+.

- ATTX98466-5R/W-R Round Red, green spot, very small, did not size, CR=3.

- Atlantic Round White, nice, early, bad rep, buff, nice shape and skin, yield+, large tubers, poor internals, CR=1.

- ATX85404-8W Round White, BOT, nice, oblong, CR=2.

- COTX00328-1Pu/Ypu Oblong Purple, high yield, yellow flesh with purple streaks, CR=3.

- COTX02377-1W Oblong White, BOT, CR=1+.

- COTX03194-2W Round White, BOT, low yield, drop, CR=1.

- COTX03194-3W Round White, poor, drop, CR=1+.

- COTX03245-1W Round White, poor, poor yield small, CR=2.

- COTX03270-1W Oblong White, keep, BOT, poor shape, CR=1+.

- COTX03270-3W Round White, keep, BOT, small, nice shape, CR=1.

- NDTX4930-5W Oblong White, BOT, rough, oversize, CR=1.
- NDTX6773-1W Oblong White, no plants, poor yield, all small tubers, CR=1+.
- NDTX7571-3AW Round White, nice, large tubers, CR=1+.
- PATX99P10-1R/R Round Red, road map, nice pale red flesh, CR=3+.
- TX03196-1W Round White, very nice, nice shape, CR=1.

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

Summary:

Based on all factors, ATX85404-8W, COTX03270-1W, AOTX95309-3W, and COTX03194-2W were the outstanding entries. Entries that will be retested in 2008 at both Springlake and Dalhart are: AOTX95309-1W, AOTX95309-3W, ATTX00289-4W, ATTX98466-5R/W-R, ATX85404-8W, COTX00328-1Pu/Ypu, COTX02377-1W, COTX03270-1W, COTX03270-3W, NDTX059608-1Ru, NDTX059632-1W, NDTX059828-2W, NDTX059897-1Y/Y, NDTX059905-1Y/Y, NDTX7571-3AW, PATX99P10-1R/R, and TX03196-1W.

TRIAL OF THE 2006 CHIPPING SELECTIONS, DALHART

The trial consisted of 19 entries of which 15 were selected in the field for further chip evaluations. Of those, eight ATX03407-2Ru, ATX03409-1W/Y, ATX03409-2W/Y, ATX03409-3W/Y, ATX03409-6W/Y, ATX03409-7W/Y, NDTX059620-1R, and NDTX059902-1W (Table 4) will be advanced in 2008.

TEXAS ADVANCED RUSSET SELECTION TRIAL, DALHART

The trial consisted of 33 entries, including the check varieties Russet Norkotah, Russet Norkotah278, Russet Norkotah296, and Stampede Russet.

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

- The outstanding entries for this trial based on general rating and best of trial designations were Russet Norkotah296, ATX91137-1Ru, Russet Norkotah278, AOTX95265-1Ru, Stampede Russet, AOTX95265-4Ru, AOTX02060-1Ru, TXA549-1Ru, and AOTX95265-1ARu, while, AOTX95269-1Ru, AOTX96208-1Ru, and Russet Norkotah also had best of trial designations (Tables 5a, 5e, and 5f).
- TXCR-2Ru and TXCR-4Ru had the highest total yield and 10-18 oz. tubers. TXCR-2Ru and Russet Norkotah296 had the highest marketable yield, while Russet Norkotah296 and ATX91137-1Ru had the highest yield of 4-6 oz. tubers (Table 5a).

- ATX91137-1Ru and TXCR-2Ru had the highest yield of 6-10 oz. TXCR-2Ru and COTX03285-4Ru had the highest yield of over 18 oz. tubers, while TXCR-2Ru and AOTX03134-1Ru had the highest yield of less than 4 oz. tubers (Table 5a).

- TXCR-4Ru and TXCR-2Ru had the highest yield of culls/No.2 tubers (Table 5a).

- AOTX95265-4Ru and ATX91137-1Ru had the highest percentages of marketable yield, while AOTX95295-3Ru and Russet Norkotah had the highest percentage of 4-6 oz. Stampede Russet and ATX91137-1Ru had the highest percentage of 6-10 oz. tubers (Table 5b).

- AOTX95265-4Ru and AOTX02060-1Ru had the highest percentage of 10-18 oz. tubers, while COTX03285-4Ru and TXCR-2Ru had the highest percentage of over 18 oz. tubers. TXNS410 and AOTX95295-3Ru had the highest percentage of less than 4 oz. tubers, while ATX84378-6Ru had the highest percentage of culls/No. 2 tubers (Table 5b).

- ATX9332-12Ru and ATX02014-1Ru had the highest specific gravity (Table 5b).

- TXCR-2Ru and Russet Norkotah296 had the highest average number of tubers per plant, while AOTX98137-1Ru had the lowest. COTX03285-4Ru and AOTX95265-4Ru had the highest average tuber weight, while AOTX95295-3Ru had the lowest (Table 5c).

- TXCR-2Ru, TXCR-4Ru, ATX97232-1Ru, and ATX9332-12Ru were the latest maturing, while ATX91137-1Ru, AOTX95295-3Ru, and AOTX98137-1Ru were the earliest maturing (Table 5c).

- ATX9332-12Ru had 15 percent hollow heart, while TXA549-1Ru had 23 percent internal brownspot (Table 5d).

- TXCR-4Ru, COTX03285-4Ru, Stampede Russet, ATX97232-1Ru, AOTX02060-1Ru, AOTX98096-1Ru, AOTX03134-1Ru, TXNS551, and ATX02014-1Ru had no signs of Zebra chip after chipping. AOTX95265-2ARu and Russet Norkotah had the highest percentage of Zebra chip.

<u>Comments on entries:</u>

- AOTX02060-1Ru Oblong Russet, yield, large tubers, nice shape, rough, BOT.
- AOTX02066-1Ru Oblong Russet, poor shape, drop, pointed, dumb bell, blocky, small, drop.
- AOTX02136-1Ru Oblong Russet, drop, close set, rough, blocky, nice shape.
- AOTX03096-1Ru Oblong Russet, drop, blocky, nice shape and skin, some raised eyes.
- AOTX03134-1Ru Oblong Russet, drop, close set, rough, skinny, blocky, pointed.
- AOTX95265-2ARu Long Russet, pointed, rough, curved, poor shape, poor internals.

- AOTX95265-3Ru Oblong Russet, nice shape, very nice, rough, some curved.
- AOTX95265-4Ru Long Russet, nice shape, large tubers, skinny curved, rough, ugly skin set.
- AOTX95269-1Ru Oblong Russet, blocky, small, feathering, rough, close set.
- AOTX95295-1Ru Oblong Russet, small, nice shape, blocky.
- AOTX95295-3Ru Oblong Russet, very small, yield-.
- AOTX96075-1Ru Oblong Russet, poor shape, small, pointed, small, close set, blocky.
- AOTX96084-1Ru Oblong Russet, small, blocky, curved, rough, close set.
- AOTX96208-1Ru Oblong Russet, drop?, rough, small.
- AOTX96216-2Ru Oblong Russet, crooked, rough, blocky, nice.
- AOTX98096-1Ru Oblong Russet, blocky, rough, nice shape.
- AOTX98137-1Ru Oblong Russet, poor shape, pointed, skinny, rough.
- ATX02014-1Ru Oblong Russet, blocky, small, drop, rough, ugly, poor shape, raised eyes.
- ATX84378-6Ru Oblong Russet, blocky, rough, growth cracks, light set, large tubers, raised eyes.
- ATX91137-1Ru Oblong Russet, smooth, very nice, BOT, blocky.
- ATX9332-12Ru Oblong Russet, rough, drop, knobs, raised eyes, blocky.
- ATX97232-1Ru Oblong Russet, rough, drop, large tubers, pointed, blocky.
- COTX03261-1Ru Oblong Russet, small, drop, poor yield, rough, nice, blocky.
- COTX03285-4Ru Oblong Russet, yield, light set, better shape than 378, very large tubers, rough, pointed, skinny.
- Russet Norkotah Oblong Russet, small, drop?, rough, yield-.
- Russet Norkotah278 Oblong Russet, nice shape, yield+, rough, nice, curved.
- Russet Norkotah296 Oblong Russet, yield, rough, curved.
- Stampede Russet Oblong Russet, very nice, blocky, BOT+.
- TXA549-1Ru Oblong Russet, blocky, BOT-, poor internals, rough.
- TXCR-2Ru Long Russet, yield+, poor shape, curved, long, pointed, skinny, close set.

- TXCR-4Ru Long Russet, yield+, poor shape, curved, pointed, long, ugly, rough.
- TXNS410 Oblong Russet, small, rough, yield-, pointed.
- TXNS551 Oblong Russet, skinny, small, rough+.

Summary:

Based on all factors, the outstanding entries in this trial were Russet Norkotah296, ATX91137-1Ru, Russet Norkotah278, AOTX95265-3Ru, Stampede Russet, and AOTX95265-4Ru.

TRIAL OF THE 2006 RUSSET SELECTIONS, DALHART

The trial consisted of 54 entries of which nine (AOTX99008-1Ru, AOTX99194-1Ru, ATX03003-1Ru, ATX03003-7Ru, ATX03068-1Ru, ATX03077-2Ru, ATX03424-1Ru, ATX99194-3Ru, and NDTX8773-4Ru) will be advanced in 2008 (Table 6).

TEXAS ADVANCED RED SELECTION TRIAL, DALHART

This trial consisted of 17 entries and the check varieties Red LaSoda and Dark Red Norland

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

- The outstanding entries based on general rating and best of trial designation were NDTX731-1R, COTX94218-1R, NDTX4271-5R, and NDTX4784-7R. NDTX03190-1R also had a best of trial designation, while BTX2332-1R also had high general rating (Tables 7a, and 7e).
- NDTX731-1R and Red LaSoda had the highest total yield, marketable yield, and 6-10 oz. tubers (Table 7a).
- NDTX731-1R and COTX94218-1R had the highest yield of 4-6 oz. tubers, while Red LaSoda and Dark Red Norland had the highest yield of 10-18 oz. tubers. Red LaSoda had the highest yield of over 18oz. tubers (Table 7a).
- COTX94218-1R and NDTX4271-5R had the highest yield of less than 4 oz tubers, while Dark Red Norland and NDTX03190-1R had the highest yield of culls/No. 2 tubers (Table 7a).
- NDTX731-1R and Red LaSoda had the highest percentage marketable yield, while COTX03254-2R and COTX94218-1R had the highest percentage of 4-6 oz. tubers (Table 7b).
- NDTX731-1R and BTX2332-1R had the highest percentage of 6-10 oz. tubers, while Red LaSoda and Dark Red Norland had the highest percentage of 10-18 oz. tubers. (Table 7b).

- COTX00411-4R and NDTX04349-12R had the highest percentage of less than 4 oz. tubers, while NDTX03190-1R and Dark Red Norland had the highest percentage of culls/No. 2 tubers (Table 7b).

- NDTX4271-5R and COTX94218-1R had the highest specific gravities (Table 7b)

- COTX02172-1R and NDTX4271-5R had the highest average number of tuber per plant, while COTX03254-2R had the lowest. Red LaSoda and NDTX731-1R had the highest average tuber weight, while COTX03254-2R had the lowest (Table 7c).

- COTX03254-2R, COTX94218-1R, NDTX4271-5R, COTX00104-7R, BTX2332-1R, and NDTX03190-1R were the latest maturing, while COTX00411-4R was the earliest maturing (Table 7c).

- NDTX731-1R and Red LaSoda had the deepest eyes. NDTX731-1R and COTX02172-1R had the highest percent of vascular discoloration (Table 7d).

Comments on entries:

- ATTX98453-6R Round Red 3.7[1], very white flesh, pale red skin, 20% Green head, nice internals.

- ATX00270-2R Round Red 3.6, small, not as white flesh, poor internals, rot, 20% Green head, nice flesh.

- BTX2332-1R Round Red 4, nice, nice flesh, lenticels.

- COTX00104-7R Round Red 3.6, 2 bad reps, nice flesh, green sprouts, ugly, second growth, flat, road map, nice flesh, early, drop++.

- COTX00411-4R Round Red 3.5, small, nice flesh, small, yield-, drop.

- COTX02172-1R Oblong Red 3.1, poor shape, rough, pale, skin, 30% green head, drop?.

- COTX03254-2R Round Red 3, poor yield, drop.

- COTX94218-1R Oblong Red 4, 2 reps only, nice shape, very nice flesh, keep+, BOT.

- Dark Red Norland Oblong Red 2, faded skin color, road map.

- NDTX039190-1R Oblong Red 4.3, heat sprouts, rough, nice flesh, BOT.

- NDTX049349-12R Oblong Red 3.9 , small, heat sprouts, poor shape, nice flesh, low yield, drop+++.

- NDTX4271-5R Round Red 4, some road map, BOT.

- NDTX4784-7R Oblong Red 4.5, heat sprouts, nice shape, nice flesh, BOT, poor skin finish, road map+, early, translucent flesh.

- NDTX4847-7R Oblong Red 4.4, heat sprouts, road map, 10% green head, fair interior, road map.

- NDTX731-1R Oblong Red 3.7, yield+, deep eyes, BOT (for yield), many problems, poor skin finish, nice shape, road map, early, large tubers.
- Red LaSoda Oblong Red 3.5 , deep eyes, rough.
- Rio Rojo Round Red 4, poor seed quality

[1]Red – Skin color 5=dark, 1=light

Summary:

Based on all factors, the outstanding entries for this trial were COTX94218-1R, NDTX4271-5R, and NDTX4784-7R.

TRIAL OF THE 2006 RED SELECTIONS, DALHART

The trial consisted of 36 entries of which 10 (AOTX91861-4R, AOTX93483-1R, COTX04340-1R, COTX94416-1R, NDTX059878-1R, NDTX059827-1R, NDTX059845-1R, NDTX5067-2R, NDTX5438-11R, and NDTX7590-3R) (Table 8) will be advanced in 2008.

TEXAS ADVANCED SPECIALTY SELECTION

The Texas advanced specialty selection trial consisted of 25 entries, including the check variety Yukon Gold.

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

- The outstanding entries for this trial based on general rating and best of trial designations were Ambra, TX1523-1Ru/Y, Yukon Gold, COTX03079-1W/Y, Vivaldi, BTX1544-2W/Y, TX1674-1W/Y, ATX02263-1R/Y, and ATTX961014-1R/Y, while PTTX05PG07-1W also received a best of trial designation.TXYG79, TXYG57, TXYG55, TXYG98, TXYG105, COTX03187-1W, PORTX06PG25-1R/R , and COTX03137-2R/R received high general ratings (Table 9a, 9e).
- ATTX98500-2P/Y and RZ94-2262 had the highest total yield, while TXYG79 and TXYG57 had the highest marketable yield (Table 9a)
- TXYG79 and ATTX98500-2P/Y had the highest yield of 4-6 oz. tubers, while RZ94-2262 and Ambra had the highest yield of 6-10 oz. tubers (Table 9a).
- TXYG57 and TX1523-1Ru/Y had the highest yield of 10-18 oz. tubers (Table 9a).
- ATTX98500-2P/Y and NDTX049265-2WRSP/Y had the highest yield of less than 4 oz. tubers, while Kenita had the highest yield of culls/No. 2 tubers (Table 9a).

- TXYG55 and TXYG107 had the highest percentage of marketable yield, while ATTX99325-1P and TXYG79 had the highest percentage of 4-6 oz. tubers (Table 9b).

- Yukon Gold and BTX1544-2W/Y had the highest percentage of 6-10 oz. tubers, while TX1523-1Ru/Y and TXYG57 had the highest percentage of 10-18 oz. tubers (Table 9b).

- COTX03137-2R/R and PTTX05PG07-1W had the highest percentage of less than 4 oz. tubers, while Kenita had the highest percentage of culls/No. 2 tubers (Table 9b).

- COTX03187-1W and COTX03137-2R/R had the highest specific gravities (Table 9b).

- ATTX98500-2P/Y and NDTX049265-2WRSP/Y had the highest average number of tubers per plant, while ATTX99325-1P had the lowest. TXYG107 and TXYG55 had the highest average tuber weight, while COTX03137-2R/R had the lowest (Table 9c).

- RZ94-2262, ATTX98500-2P/Y, COTX03187-1W, Kenita, and COTX0450-1P/P were the latest maturing, while TXYG79, TXYG55, COTX03079-1W/Y, Yukon Gold, ATTX961014-1R/Y, and ATTX99325-1P were the earliest maturing (Table 9c).

- BTX1544-2W/Y and BTX1749-1W/Y had the deepest yellow flesh color of the white skinned yellow flesh entries. COTX04096-1R/Y and ATTX98500-2P/Y had the darkest yellow flesh color of the red skinned yellow flesh entries. PORTX06PG25-2R/R had the darkest red flesh color of the red skinned red flesh entries (Table 9d).

- TXYG79 and TXYG57 had the highest percentage of hollow heart, while TX1523-1Ru/Y had the highest percentage of vascular discoloration. COTX03187-1W had high percentage of internal brownspot (Table 9d).

Comments on entries:

- Ambra — Oblong White, deeper yellow flesh, very nice, parent, very smooth, very nice skin, shape, and flesh, BOT++, FC=2.8[1].

- ATTX961014-1R/Y — Oblong Red, nice flesh, very nice, BOT, road map, small, nice internals, FC=2.7.

- ATTX98500-2P/Y — Round Purple, yield, nice yellow flesh, check other data, second growth, heavy set, buff, poor skin finish, nice internals, drop?++, FC=3.7.

- ATTX98500-3P/Y — Oblong Pinto, pointed, poor shape, flat, light flesh, check other data, rough, buff, very nice interior, nice flesh, drop++, FC=3.5.

- ATTX99325-1P — Oblong Purple, very white flesh, road map, nice shape, low yield, keep?, nice smooth skin, feathering, FC=1.

- ATX02263-1R/Y — Oblong Red, some pointed, dark red skin, nice shape, skin, and flesh, egg like shape, BOT, FC=2.5.

- BIC96606-32 Round White, green sprout, poor light yellow flesh, white flesh, rough, nipple on shoulder, FC=1.
- BTX1544-2W/Y Oblong White, early, nice flesh, BOT-, lenticels, nice, poor skin finish, light russet, FC=3.5.
- BTX1749-1W/Y Oblong White, nice flesh, bad part of the field, drop?, FC=3.3.
- COTX03039-1R/Y Oblong Red, early, large tubers, oversize, smooth, lenticels, nice flesh, nice, keep, FC=3.
- COTX03079-1W/Y Oblong White, pink eye, very nice flesh, TC, BOT+, round to oblong shape, variable shape, a little rough, very nice internals, FC=3.
- COTX03137-2R/R Long Red, small, nice skin and flesh, fingerling, sliver scurf, nice, red flesh, FC=3.1.
- COTX03187-1W Long White, smooth, can oversize, fingerling, buff skin, long fingerling, white flesh, poor internals, drop, better at SPR, FC=1.
- COTX04050-1P/P Oblong Purple, smooth, nice shape, very dark purple flesh, lenticels, silver scurf, keep, FC=5.
- COTX04096-1R/Y Oblong Red, nice size, pale red skin, nice size, smooth, very nice interior, FC=4.
- Kenita Oblong White, rough, lenticels, poor skin finish, very poor shape, ugly, white flesh, drop++, FC=1.
- NDTX049265-2WRSP/Y/Y Oblong Yellow/RSPL, nice flesh, red splash eyes, nice, FC=3.
- NDTX4756-1R/Y Oblong Red, nice flesh, smooth, pale skin, nice round shape, smooth, small, yield-, very nice interior, FC=3.5.
- PORTX03PG25-2R/R Long Red, nice flesh, nice fingerling, yield+, FC=3.5.
- PTTX05PG07-1W Long White, curved, fingerling, green head, very nice flesh, BOT, FC=1.
- RZ94-2262 Oblong White, nice yellow flesh, buff skin, road map, pointed, poor shape, nipple on shoulder, FC=2.8.
- Snowbird Round White, nice round shape, chip, Parent, indented nose and stem attachment, rough, heat sprouts, smooth skin, very white flesh, close set, variable size and shape, FC=1.
- TX1523-1Ru/Y Oblong Russet, heat sprouts, re-growth, very nice, BOT++, FC=3.1.
- TX1674-1W/Y Oblong White, very nice, BOT-, long, flat, nice internals, pink eyes, FC=3.5.

- TXYG105 Oblong White, bad part of field, FC=3.
- TXYG107 Oblong White, very nice, yield-, FC=3.
- TXYG55 Oblong White, yield?, FC=3.
- TXYG57 Oblong White, nice, FC=3.
- TXYG79 Oblong White, yield+, FC=3.
- TXYG98 Oblong White, looks smaller, FC=3.
- Vivaldi Oblong White, nice shape, very nice yellow flesh, green sprouts, BOT++, FC=2.5.
- Yukon Gold Oblong White, green sprout, nice yellow flesh, large tubers, BOT-, yield+, nice shape, some rough , FC=3.

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

Summary:

Based on all factors the outstanding entries for this trial were TXYG79, TXYG57, TXYG55, Ambra, TXYG107, TX1523-1Ru/Y, and COTX03079-1W/Y.

TRIAL OF THE 2006 SPECIALTY SELECTIONS, DALHART

The trial consisted of 100 entries of which 27 (ATTX00289-6Y/Y, ATTX98500-3PU/Y, ATX03491-1R/Y, ATX03496-3Y/Y, COTX04056-4P/P Salad, COTX0415-3AW/Y, COTX04178-1Y/Y, COTX04188-3R/Y, COTX04193-2R/Y, COTX04267-1R/Y, COTX04303-1R/Y, COTX04303-2R/Y, COTX04303-3R/Y, NDTX059759-1Pinto/Y, NDTX059759-3Pinto/Y, NDTX059761-1W/Y, NDTX059775-1W/Y, NDTX059886-1Y/Y, NDTX059897-1Y/Y, NDTX059905-1Y/Y, TX04212-1R/Y, TX04237-6Y/Y, TX04239-2R/Y, TXYG105, TXYG57, TXYG79, and TXYG98) will be advanced in the 2008 season.

HZPC VARIETY TRIAL

The HZPC variety trial consisted of 7 entries, including the check variety Yukon Gold.

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

- The outstanding entries for this trial based on general rating and best of trial designations were Ambra, Vivaldi, and Yukon Gold (Tables 11a and 11e).
- RZ94-2262 and Ambra had the highest total yield, marketable yield, and 6-10 oz. tubers (Table 11a)

- RZ94-2262 and Vivaldi had the highest yield of 4-6 oz. tubers, while Ambra and Yukon Gold had the highest yield of 10-18 oz. tubers (Table 11a).

- BIC96606-32 and RZ94-2262 had the highest yield of less than 4 oz. tubers, while Kenita had the highest yield of culls/No. 2 tubers (Table 11a).

- Yukon Gold and Ambra had the highest percentage of marketable yield, 6-10 oz., and 10-18 oz. tubers, while Vivaldi and BIC96606-32 had the highest percentage of 4-6 oz. tubers (Table 11b).

- BIC96606-32 and Snowbird had the highest percentage of less than 4 oz. tubers, while Kenita had the highest percentage of culls/No. 2 tubers (Table 11b).

- Snowbird had the highest specific gravities (Table 11b).

- RZ94-2262 and BIC96606-32had the highest average number of tubers per plant, while Yukon Gold had the lowest. Yukon Gold and Ambra had the highest average tuber weight, while Kenita had the lowest (Table 11c).

- RZ94-2262, Kenita, and Vivaldi were the latest maturing, while Yukon Gold and Ambra were the earliest maturing (Table 11c).

- Yukon Gold had darker yellow flesh than RZ94-2262, Ambra, and Vivaldi. Snowbird, BIC966-6-32, and Kenita had white flesh (Table 11d).

- Kenita had the highest percentage of vascular discoloration. RZ94-2262 and Yukon Gold had high percentage of internal brownspot (Table 11d).

<u>Comments on entries:</u>

- Ambra — Oblong White, deeper yellow flesh, very nice, parent, very smooth, very nice skin, shape, and flesh, BOT++, FC=2.8[1].

- BIC96606-32 — Round White, green sprout, poor light yellow flesh, white flesh, rough, nipple on shoulder, FC=1.

- Kenita — Oblong White, light flesh, rough, lenticels, poor skin finish, very poor shape, ugly, white flesh, drop++, FC=1.

- RZ94-2262 — Oblong White, nice yellow flesh, buff skin, road map, pointed, poor shape, buff, road map, nipple on shoulder, FC=2.8.

- Snowbird — Round White, white flesh, nice round shape, chip, Parent, indented nose and stem attachment, rough, heat sprouts, smooth skin, very white flesh, close set, variable size and shape, FC=1.

- Vivaldi — Oblong White, nice shape, very nice yellow flesh, green sprouts, BOT++, FC=2.5.
- Yukon Gold — Oblong White, green sprout, nice yellow flesh, large tubers, BOT-, yield+, nice shape, some rough , FC=3.

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

Summary:

Based on all factors the outstanding entry for this trial was Ambra.

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 Regional Chipping Trial grown near Dalhart, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz.	Under 4 oz.	Culls/ No.2	General Rating[1] Grading
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.				
Ivory Crisp	513.7	347.9	120.4	127.6	99.8	0.0	147.3	18.6	4.2
Atlantic	487.8	324.0	90.6	150.9	82.5	0.0	136.8	27.0	3.9
AC97097-14W	435.4	285.3	91.2	124.9	69.3	4.8	135.3	10.0	3.5
CO97043-14W	415.1	240.9	130.7	95.4	14.8	0.0	163.4	10.9	3.4
CO97065-7W	351.6	189.9	79.9	68.0	42.1	0.0	110.9	50.7	3.6
Chipeta	341.1	175.8	90.6	62.3	22.9	0.0	140.7	24.6	3.6
CO96141-4W	328.1	154.1	81.3	57.1	15.7	0.0	149.0	25.0	3.7
Average	410.4	245.4	97.8	98.0	49.6	0.7	140.5	23.8	3.7
L.S.D. (.05)	67.5	55.6	29.3	33.0	46.3	ns	ns	ns	0.4

[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 Regional Chipping Trial grown near Dalhart, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Ivory Crisp	67.7	23.6	24.7	19.4	0.0	28.6	3.8	1.066	14.2	Round	White
Atlantic	67.0	18.5	31.4	17.2	0.0	27.5	5.5	1.076	16.0	Round	White
AC97097-14W	65.4	20.9	28.7	15.8	1.1	31.3	2.2	1.070	15.0	Oblong	White
CO97043-14W	58.1	31.5	23.0	3.6	0.0	39.3	2.6	1.069	14.8	Oblong	White
CO97065-7W	54.5	22.7	19.6	12.2	0.0	32.0	13.5	1.071	15.1	Round	White
Chipeta	51.1	26.5	17.9	6.7	0.0	41.7	7.2	1.064	14.0	Round	White
CO96141-4W	47.9	25.4	16.8	5.7	0.0	44.7	7.4	1.062	13.5	Round	White
Average	58.8	24.1	23.1	11.5	0.2	35.0	6.0	1.068	14.7		
L.S.D. (.05)	12.6	6.7	7.3	11.0	ns	ns	ns	0.007	1.3		

Dalhart
Table 1c. Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 7 entries in the Western Regional Chipping Trial grown near Dalhart, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
Ivory Crisp	10.5	4.3	2.9	97	99	2.1	3.9	3.8	3.7	33
Atlantic	9.1	4.7	2.5	95	96	1.7	3.9	3.6	4.0	19
AC97097-14W	8.9	4.5	2.4	100	100	1.6	3.7	4.3	3.9	10
CO97043-14W	11.6	3.5	2.4	89	93	2.1	3.7	3.4	3.6	29
CO97065-7W	7.1	4.0	2.7	95	96	1.5	3.7	2.5	3.2	49
Chipeta	7.5	4.0	2.5	94	98	1.8	4.2	4.9	4.9	0
CO96141-4W	8.7	3.3	2.2	100	100	2.0	3.6	1.7	2.9	71
Average	9.0	4.1	2.5	96	97	1.8	3.8	3.4	3.7	30
L.S.D. (.05)	2.2	0.9	ns	ns	ns	0.3	ns	0.8	0.8	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 1d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobbiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 7 entries in the Western Regional Chipping Trial grown near Dalhart, Texas-2007.

Variety or Selection	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
Ivory Crisp	1.0	1.6	1.8	3.9	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Atlantic	1.0	1.5	2.4	3.9	1.0	5.0	5.0	5.0	5.0	5.0	5	0	3	13
AC97097-14W	1.0	2.7	2.4	3.9	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
CO97043-14W	1.0	2.2	2.2	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	3	0
CO97065-7W	1.0	1.5	2.3	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Chipeta	1.0	1.4	2.4	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	3
CO96141-4W	1.0	1.5	2.0	3.9	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	1.0	1.8	2.2	4.0	1.0	5.0	5.0	5.0	5.0	5.0	2	0	1	2
L.S.D. (.05)		0.7												

[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 Regional Chipping Trial grown near Dalhart, Texas-2007.

Variety or Selection	Notes Field	Notes Grading	General Rating Grading
Ivory Crisp	nice, early, nice, early, ,	BOT, nice yield, very nice, BOT, Yield+	4.2, 4, 4.2, 4.2
Atlantic	nice, early, , ,	bad rep,, buff, nice shape and skin, , yield+, large tubers,	4, 4, 3.7, 4
AC97097-14W	some rot, small, late, ,	very large tubers, oblong, lenticels, poor skin, 10 Z	4, 3.5, 3, 3.5
CO97043-14W	nice, early, , ,	, small, small, 10 Z	3.7, 3.2, 3, 3.7
CO97065-7W	low yield, , ,	many small tubers, nice, 20 Z, nice shape	3.5, 3.7, 3.5, 3.8
Chipeta	late, , ,	20z, small, very small, 20 Z	4, 3, 3, 4.2
CO96141-4W	nice, early, , ,	very nice, , ,	4, 3.7, 3.5, 3.5

Dalhart and Springlake Table 1f. Specific gravity, percent solids, tuber defects, tuber general rating, chip general rating, chip color rating, chip defects and notes, good chip bad chip ratio, and good chip bad chip weight and percentage of 7 entries in the Western Regional Chip Trial grown near Dalhart and Springlake , Texas-2007.

Variety or Selection	Location	Gravity	% Solids	Tuber Defects[1]	Tuber General Rating[2]	Chip General Rating[2]	Chip Color[3]	Chip Defects and Notes[4]	Good/Bad Chip Ratio	Good Chip Wt (g)(%)	Bad Chip Wt (g)(%)
Ivory Crisp	Dalhart	1.066	14	BOT, nice tubers		4.0	1	3% BSB, 25% Vas, 5% Z	27/13	40.3(67%)	19.6(33%)
	Springlake Early	1.084	17				2	33% Vas, 17% SE drop	3/30		
	Springlake Late	1.077	16		3.5		3	20% Z, 10% Vas, 13% SE, some bad	17/30		
Atlantic	Dalhart	1.076	16	BOT, Buff, nice, rough		4.5	1	3% GH, 38% Vas, 13% BSB, 18% Z	19/21	25.8(40%)	39.8(60%)
	Springlake Early	1.099	20				2+	60% PB, drop	0/30		
	Springlake Late	1.073	16	Buff	3.5		1+	13% BSB, 20% Vas, 7% IBS, not bad	12/30		
AC97097-14W	Dalhart	1.070	15	raised lenticels-		4.0	1	25% Su, 3% HH, 38% Vas, 5% Z	14/26	21.2(33%)	44.3(67%)
	Springlake Early	1.087	18	small			2	100% Vas, drop,	0/30		
	Springlake Late	1.085	18	pointed, low yield	3.0		1	17% BSB, 7% Vas, OK	23/30		
CO97043-14W	Dalhart	1.069	15			3.5	1+	3% HH, 28% Vas, 8% Z	25/15	35.1(64%)	19.3(36%)
	Springlake Early	1.084	17				1+	17% Vas, 7% PB, ok, keep	22/30		
	Springlake Late	1.078	16	flat	3.3		1	27% Z, 70% Vas, bad	2/30		
CO97065-7W	Dalhart	1.071	15	BOT-			1	5% BSB, 3% HH, 45% Vas, 3% Z	19/21	30.8(46%)	36.4(54%)
	Springlake Early	1.089	18				1+	43% PB, ok, drop?	17/30		
	Springlake Late	1.090	19	yield+	4.5		1	23% Vas, 7% Scab, OK	19/30		
Chipeta	Dalhart	1.064	14			4.0	1	3% BSB, %5 HH, 33% Vas, 3% Z	23/17	32.4(54%)	28.2(46%)
	Springlake Early	1.073	16				3	100% Vas, 37% SE, drop	0/30		
	Springlake Late	1.076	16	rough, lenticels	3.3		2-	60% Vas, 30% Scab, 3% Z, not bad	5/30		
CO96141-4W	Dalhart	1.062	14	BOT-, raised lenticels-			1+	3% BSB, 5% Su, 50% Vas, 20% Z	10/30	15(24%)	45.7(76%)
	Springlake Early	1.087	18				1+	13% GH, BOT,ok,keep	24/30		
	Springlake Late	1.078	16	nice, few tubers	3.5		1	50% Z, nice otherwise, bad Z	15/30		

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

[1]BOT=Best Of Trial

[2]1=poor, 5=excellent

[3]1=light, 3+=very dark

[4]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

Addendum to Tables Dalhart 1a, 1b, 1c, 1d, 1e, and 1f
Western Regional Chip Trial

Location:
Dalhart, Texas

Soil Type
Dallum Fine Sand Loam

Seed Source
Colorado andTexas

Date:		DAP
Planted	April 24, 2007	
Vines Killed	August 6, 2007	102
Harvested	September 17, 2007	143

Plot Information:

Size of Plots	10'
Spacing Between Hills	12"
Spacing Between Rows	30
Hills Per Plot	10
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Four-row digger, with hand pick up.

Fertilizer:
Application:
150-200-100-3 zn # per acre

Irrigation:
Center Pivot

Insecticide:
Venom

Fungicides Applied:
Tops MZ Gaucho

Herbicides Applied:
Sencor DF, Dual Magnam, Chateux, Prowl, Matrix, Select, Intensity

Environmental Factors:
Precipitation was lower than normal during the last week of April, the first three weeks of May, the first, third, and fourth weeks of June, and the second week of August. Precipitation was higher than normal during the second week of April, the second week of May, the second and forth weeks of June, and the first week of August

Dalhart
Table 2a. Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 4 entries in the Southwestern Regional Chipping Trial grown near Dalhart, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre							General Rating[1] Grading
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz.	Under 4 oz.	Culls/ No.2	
Atlantic	487.8	324.0	90.6	150.9	82.5	0.0	136.8	27.0	3.9
TX1475-3W	432.9	286.1	132.1	76.6	77.5	17.1	97.2	32.6	3.7
AC99213-8W	458.5	273.4	168.4	80.4	24.5	0.0	169.0	16.1	3.6
Chipeta	341.1	175.8	90.6	62.3	22.9	0.0	140.7	24.6	3.6
Average	430.1	264.8	120.4	92.5	51.8	4.3	135.9	25.1	3.7
L.S.D. (.05)	55.7	60.6	47.8	35.7	40.1	11.7	ns	ns	ns

[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 4 entries in the Southwestern Regional Chipping Trial grown near Dalhart, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
Atlantic	67.0	18.5	31.4	17.2	0.0	27.5	5.5	1.076	16.0	Round	White
TX1475-3W	65.9	30.6	17.6	17.7	3.9	22.6	7.6	1.066	14.3	Round	White
AC99213-8W	59.6	36.5	17.6	5.5	0.0	37.0	3.4	1.073	15.6	Round	White
Chipeta	51.1	26.5	17.9	6.7	0.0	41.7	7.2	1.064	14.0	Round	White
Average	60.9	28.0	21.1	11.8	1.0	32.2	5.9	1.070	15.0		
L.S.D. (.05)	ns	8.4	9.1	9.0	2.2	ns	ns	0.008	1.5		

Dalhart
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 4 entries in the Southwestern Regional Chipping Trial grown near Dalhart, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
Atlantic	9.1	4.7	2.5	95	96	1.7	3.9	3.6	4.0	19
TX1475-3W	8.0	5.0	2.4	95	96	2.1	3.9	2.9	3.2	45
AC99213-8W	11.1	3.6	3.7	100	100	1.9	4.5	4.5	4.5	8
Chipeta	7.5	4.0	2.5	94	98	1.8	4.2	4.9	4.9	0
Average	8.9	4.3	2.8	96	98	1.8	4.1	4.0	4.2	18
L.S.D. (.05)	2.0	ns	ns	ns	ns	ns	ns	0.8	0.8	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 2d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobbiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 4 entries in the Southwestern Regional Chipping Trial grown near Dalhart, Texas-2007.

Variety or Selection	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
Atlantic	1.0	1.5	2.4	3.9	1.0	5.0	5.0	5.0	5.0	5.0	5	0	3	13
TX1475-3W	1.0	1.8	2.3	3.9	1.0	5.0	5.0	5.0	5.0	5.0	8	0	0	0
AC99213-8W	1.0	1.6	2.4	3.9	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Chipeta	1.0	1.4	2.4	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	0	3
Average	1.0	1.6	2.4	3.9	1.0	5.0	5.0	5.0	5.0	5.0	4	0	1	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 2e. Notes and general rating for all reps of 4 entries in the Southwestern Regional Chipping Trial grown near Dalhart, Texas-2007.

Variety or Selection	Notes Field	Notes Grading	General Rating Grading
Atlantic	nice, early, , ,	bad rep,, buff, nice shape and skin, , yield+, large tubers,	4, 4, 3.7, 4
TX1475-3W	large, , , large tubers	, , lenticels, 10 Z	3.2, 3.7, 3.7, 4
AC99213-8W	very late, small, very small, very late, ,	lenticels, buff, nice shape, small,	3.7, 3.7, 3.5, 3.5
Chipeta	late, , ,	20z, small, very small, 20 Z	4, 3, 3, 4.2

Dalhart
Table 2f. Specific gravity, percent solids, tuber defects, general rating tuber, general rating chip, chip color rating, chip defects, good chip bad chip ratio and good chip bad chip weight and percentage of 4 entries in the Southwestern Regional Chipping Trial grown near Dalhart, Texas-2007.

Variety or Selection	Location	Gravity	% Solids	Tuber Defects	General Rating Tuber	General Rating Chip	Chip Color	Chip Defects	Good/Bad Chip Ratio	Good Chip Wt (g)(%)	Bad Chip Wt (g)(%)
Atlantic	Dalhart	1.076	16	BOT, Buff, nice, rough		4.5	1	3% GH, 38% Vas, 13% BSB, 18% Z	19/21	25.8(40%)	39.8(60%)
	Springlake Early	1.099	20				2+	60% PB, drop	0/30		
	Springlake Late	1.073	16	Buff,	3.5		1+	13% BSB, 20% Vas, 7% IBS, not bad	12/30		
TX1475-3W	Dalhart	1.066	14	Very Early raised lenticels-		4	1	23% Su, 3% GH, 3% HH, 40% Vas, 3% Z	11/29	16.9(26%)	47.4(74%)
	Springlake Early										
	Springlake Late										
AC99213-8W	Dalhart	1.073	16	Buff skin, raised lenticels-, nice		4	1	3% BSB, 3% GH, 33% Vas	29/11	49.2(66%)	25(34%))
	Springlake Early	1.077	16	small, very late			1	100% Vas, drop?,	0/30		
	Springlake Late	1.084	17		3.3		1	7% HH, 3% ZC, 13% Vas	21/30		
Chipeta	Dalhart	1.064	14			4	1	3% BSB, %5 HH, 33% Vas, 3% Z	23/17	32.4(54%)	28.2(46%)
	Springlake Early	1.073	16				3	100% Vas, 37% SE, drop	0/30		
	Springlake Late	1.076	16	rough, lenticels,	3.3		2-	60% Vas, 30% Scab, 3% ZC, not bad	5/30		

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

[1]BOT=Best Of Trial

[2]1=poor, 5=excellent

[3]1=light, 3+=very dark

[4]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

Addendum to Tables Dalhart 2a, 2b, 2c, 2d, 2e, and 2f
Southwestern Regional Chipping Trial

Location:
Dalhart, Texas

Soil Type
Dallum Fine Sand Loam

Seed Source
Colorado andTexas

Date:		DAP
Planted	April 24, 2007	
Vines Killed	August 6, 2007	102
Harvested	September 17, 2007	143

Plot Information:

Size of Plots	10'
Spacing Between Hills	12"
Spacing Between Rows	30
Hills Per Plot	10
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Four-row digger, with hand pick up.

Fertilizer:
Application:
150-200-100-3 zn # per acre

Irrigation:
Center Pivot

Insecticide:
Venom

Fungicides Applied:
Tops MZ Gaucho

Herbicides Applied:
Sencor DF, Dual Magnam, Chateux, Prowl, Matrix, Select, Intensity

Environmental Factors:
Precipitation was lower than normal during the last week of April, the first three weeks of May, the first, third, and fourth weeks of June, and the second week of August. Precipitation was higher than normal during the second week of April, the second week of May, the second and forth weeks of June, and the first week of August

Dalhart Table 3a. 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 Chipping SelectionTrial grown near Dalhart, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre							General Rating[1] Grading
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz.	Under 4 oz.	Culls/ No.2	
NDTX4930-5W	566.3	375.7	146.1	128.6	101.0	34.2	93.5	62.9	3.5
Atlantic	487.8	324.0	90.6	150.9	82.5	0.0	136.8	27.0	3.9
ATX85404-8W	472.4	315.8	133.7	107.6	74.5	0.0	149.4	7.2	4.0
ATTX95490-2W	490.3	242.2	59.5	83.6	99.1	9.8	120.4	117.8	2.0
COTX00328-1Pu/Ypu	382.4	237.8	152.5	81.6	3.7	0.0	144.6	0.0	3.2
AOTX95309-1W	321.3	162.7	88.0	57.1	17.6	0.0	126.8	31.8	4.0
COTX02377-1W	203.2	136.8	64.0	44.0	28.7	0.0	58.4	8.1	3.7
NDTX7571-3AW	289.0	120.2	69.7	39.0	11.5	5.2	140.7	22.9	3.7
TX03196-1W	268.8	93.2	83.6	9.6	0.0	0.0	160.3	15.2	4.0
COTX03270-3W	162.4	84.8	55.8	29.0	0.0	0.0	57.8	19.8	3.6
COTX03245-1W	142.9	84.2	43.9	40.4	0.0	0.0	58.7	0.0	3.0
COTX03270-1W	211.7	73.4	68.4	5.0	0.0	0.0	132.0	6.3	3.0
AOTX95309-3W	195.1	68.8	49.7	16.8	2.4	0.0	89.3	37.0	3.7
PATX99P10-1R/R	151.4	29.8	28.7	1.1	0.0	0.0	104.8	16.8	3.0
NDTX6773-1W	54.0	26.8	17.0	9.8	0.0	0.0	27.1	0.0	2.5
COTX03194-2W	52.7	16.3	11.3	5.0	0.0	0.0	32.9	3.5	2.5
ATTX98466-5R/W-R	102.4	3.3	3.3	0.0	0.0	0.0	92.8	6.3	3.0
COTX03194-3W	79.3	0.0	0.0	0.0	0.0	0.0	79.3	0.0	2.5
Average	267.9	140.9	68.6	47.6	24.8	2.9	101.5	22.5	3.3
L.S.D. (.05)	55.7	29.6	23.5	30.0	28.7	12.9	38.6	23.8	0.05

[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 18 entries in the Texas Advanced Chipping SelectionTrial grown near Dalhart, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
NDTX4930-5W	66.6	26.1	23.4	17.0	5.6	16.7	11.0	1.068	14.690	Oblong	White
Atlantic	67.0	18.5	31.4	17.2	0.0	27.5	5.5	1.076	16.027	Round	White
ATX85404-8W	66.8	28.1	22.9	15.8	0.0	31.7	1.5	1.071	15.227	Round	White
ATTX95490-2W	49.3	12.0	17.4	19.9	1.8	24.5	24.4	1.038	9.340	Oblong	White
COTX00328-1Pu/Ypu	62.1	40.0	21.2	0.9	0.0	37.9	0.0	1.056	12.446	Oblong	Purple
AOTX95309-1W	50.8	27.3	18.2	5.3	0.0	39.2	10.0	1.068	14.725	Round	White
COTX02377-1W	67.5	31.5	21.7	14.3	0.0	28.7	3.9	1.063	13.820	Oblong	White
NDTX7571-3AW	41.2	25.6	11.6	4.0	1.9	49.3	7.6	1.064	13.946	Round	White
TX03196-1W	34.3	31.2	3.1	0.0	0.0	59.9	5.8	1.058	12.897	Round	White
COTX03270-3W	52.4	35.7	16.7	0.0	0.0	35.6	12.0	1.062	13.650	Round	White
COTX03245-1W	58.7	30.2	28.5	0.0	0.0	41.3	0.0	1.055	12.247	Round	White
COTX03270-1W	35.3	32.5	2.8	0.0	0.0	61.6	3.1	1.067	14.524	Oblong	White
AOTX95309-3W	40.0	27.4	10.9	1.6	0.0	44.1	15.9	1.065	14.181	Round	White
PATX99P10-1R/R	20.1	19.3	0.8	0.0	0.0	68.9	11.0	1.056	12.462	Round	Red
NDTX6773-1W	50.3	34.0	16.3	0.0	0.0	49.7	0.0	1.054	12.166	Oblong	White
COTX03194-2W	23.7	17.6	6.1	0.0	0.0	70.3	6.0	1.066	14.214	Round	White
ATTX98466-5R/W-R	2.9	2.9	0.0	0.0	0.0	90.6	6.4	1.058	12.863	Round	Red
COTX03194-3W	0.0	0.0	0.0	0.0	0.0	100.0	0.0	1.067	14.533	Round	White
Average	46.4	25.9	14.9	5.7	0.5	45.7	7.3	1.062	13.496		
L.S.D. (.05)	11.5	11.2	10.5	5.7	2.2	12.4	8.8	0.004	0.800		

Dalhart
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 18 entries in the Texas Advanced Chipping SelectionTrial grown near Dalhart, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
NDTX4930-5W	9.3	5.3	2.3	100	100	2.1	4.4	2.0	3.2	70
Atlantic	9.1	4.7	2.5	95	96	1.7	3.9	3.6	4.0	19
ATX85404-8W	9.9	4.3	1.8	100	100	1.7	4.2	4.2	4.7	15
ATTX95490-2W	7.0	4.9	3.6	100	100	2.2	4.7	3.0	4.0	50
COTX00328-1Pu/Ypu	9.9	3.6	3.0	100	100	2.0	3.4	1.7	2.5	80
AOTX95309-1W	7.9	3.8	2.2	86	89	2.0	3.7	3.7	3.7	15
COTX02377-1W	8.3	4.2	2.3	53	58	2.0	2.3	4.0	1.5	20
NDTX7571-3AW	7.1	3.7	2.2	96	98	2.0	3.6	4.5	4.2	10
TX03196-1W	9.3	2.9	2.4	76	86	2.0	3.2	1.5	2.5	80
COTX03270-3W	6.3	3.2	1.6	48	64	1.9	3.4	3.7	3.7	15
COTX03245-1W	9.3	3.4	1.7	39	48	2.0	2.0	4.5	2.2	10
COTX03270-1W	7.6	3.1	2.6	78	81	2.1	3.3	3.7	3.2	30
AOTX95309-3W	5.8	3.5	3.1	81	84	2.0	3.2	3.7	4.0	25
PATX99P10-1R/R	5.2	2.4	3.1	99	100	1.7	3.0	1.0	1.5	100
NDTX6773-1W	2.2	3.4	2.3	62	71	1.6	2.9	2.0	1.5	30
COTX03194-2W	4.6	1.9	2.1	44	51	2.0	1.4	4.5	2.0	0
ATTX98466-5R/W-R	5.3	1.7	4.2	100	100	2.0	2.1	1.0	1.5	100
COTX03194-3W	6.6	2.4	2.5	44	48	2.0	2.6	4.0	2.5	10
Average	7.3	3.5	2.5	80	84	1.9	3.2	3.1	2.9	39
L.S.D. (.05)	2.6	0.6	0.6	15	14	0.1	0.4	0.2	0.2	4

[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 3e. Notes and general rating for all reps of 18 entries in the Texas Advanced Chipping SelectionTrial grown near Dalhart, Texas-2007.

Variety or Selection	Notes Field	Notes Grading	General Rating Grading
NDTX4930-5W	BOT, , ,	rough, oversize, , ,	3.5, 3.5, 3.5, 3.5
Atlantic	nice, early, , ,	bad rep,, buff, nice shape and skin, , yield+, large tubers,	4, 4, 3.7, 4
ATX85404-8W	BOT, , ,	nice, oblong, , ,	4, 4, 4, 4
ATTX95490-2W	very early, large tubers, high yield,heat sprouts, BOT, , ,	large tubers, poor shape, poor flesh, 10Z, drop, , ,	2, 2, 2, 2
COTX00328-1Pu/Ypu	high yield, , ,	yellow frlsh with purple streaks, , ,	3.2, 3.2, 3.2, 3.2
AOTX95309-1W	big tuber,,oblong,BOT, , ,	BOT, , ,	4, 4, 4, 4
COTX02377-1W	BOT, , ,	, , ,	3.7, 3.7, 3.7, 3.7
NDTX7571-3AW	nice, , ,	large tubers, 10Z, , ,	3.7, 3.7, 3.7, 3.7
TX03196-1W	very nice, , ,	nice shape, , ,	4, 4, 4, 4
COTX03270-3W	keep ,BOT, , ,	small, nice shape, , ,	3.6, 3.6, 3.6, 3.6
COTX03245-1W	poor, , ,	poor yield small, , ,	3, 3, 3, 3
COTX03270-1W	keep ,BOT, , ,	poor shape, oblong, , ,	3, 3, 3, 3
AOTX95309-3W	small tubers,more round, BOT, , ,	small, nice shape, , ,	3.7, 3.7, 3.7, 3.7
PATX99P10-1R/R	road map, , ,	nice pale red flesh, road map, , ,	3, 3, 3, 3
NDTX6773-1W	no plants, poor yield, , ,	all small tubers, , ,	2.5, 2.5, 2.5, 2.5
COTX03194-2W	BOT, , ,	low yield, drop, , ,	2.5, 2.5, 2.5, 2.5
ATTX98466-5R/W-R	small, green spot, , ,	very small, did not size, , ,	3, 3, 3, 3
COTX03194-3W	poor, , ,	drop, , ,	2.5, 2.5, 2.5, 2.5

Springlake and Dalhart Table 3f. Specific gravity, % solids, tuber notes, tuber general rating, chip color rating, chip defects, good/bad chip ratio, good chip bad chip weight and percentage, and notes of 22 advanced chipping lines from three trials grown near Springlake and Dalhart, Texas-2007.

Variety or Selection	Location	Gravity	% Solids	Tuber Notes[1]	Tuber General Rating[2]	Chip Color[3]	Chip Defects[4]	Good/Bad Chip Ratio	Good Chip Wt (g)(%)	Bad Chip Wt (g)(%)	Creighton Chip Notes
NDTX4930-5W	Dalhart	1.068	15	Nice, RL-	4.5	1	58% Vas	16/33	24.2(41%)	34.7(59%)	
	Springlake Early	1.079	17			3	93% Vas	3/27			drop
	Springlake Late	1.080	17	OK nice, Ob, W, large tubers	4.5	1	7% Z, 97% Vas				
Atlantic	Dalhart	1.076	16	BOT, Buff, nice, rough		1	3% GH, 38% Vas, 13% BSB, 18% Z	19/21	25.8(40%)	39.8(60%)	
	Springlake Early	1.099	20			2+	60% PB, drop	0/30			
	Springlake Late	1.073	16	Buff,	3.5	1+	13% BSB, 20% Vas, 7% IBS, not bad	12/30			
ATX85404-8W	Dalhart	1.071	15	Bad lenticels, RL	3.5	2	10% BSB, 3% GH, 23% Vas,	26/14	46.1(66%)	23.6(34%)	
	Springlake Early	1.082	17	7% Stabbed		1+	33% Vas	17/13			ok- vascular darkening
	Springlake Late	1.083	17	BOT+, nice, Ob, W, somewhat flat	3.5	1	7% Z	25/5			
ATTX95490-2W	Dalhart	1.038	9	Shape, RL	3	3+	100% Dark	0/40	0(0%)	50.7(100%)	
	Springlake Early										
	Springlake Late										
COTX00328-1Pu/Ypu	Dalhart	1.056	12	Bad road map,	3	3	21% Scab,	32/10	43.5(78%)	12.4(22%)	
	Springlake Early	1.079	17	Nice		2+		30/0			ok - don't like
	Springlake Late	1.074	16	Nice, Ob, P	3.5	2+		22/8			
AOTX95309-1W	Dalhart	1.068	15	RL	4	1	3% BSB, 23% Vas, 5% Z,	28/12	51.7(71%)	21.1(29%)	
	Springlake Early	1.087	18			1+	7% Vas	18/12			nice-not very dark
	Springlake Late	1.087	18	BOT, nice, Ob, W	3.5	1	10% Scab	24/6			
COTX02377-1W	Dalhart	1.063	14	Buff skin, RL-	3.5	1+	18% Dark, 23% Vas, 3% Z,	23/17	33.9(58%)	24.3(42%)	
	Springlake Early	1.082	17	BOT		1	3% BSB	16/14			ok - light color
	Springlake Late	1.085	18	nice BOT-, Ob, W, some pointed	3.3	1	7% Vas	28/2			
NDTX7571-3AW	Dalhart	1.064	14	Large tubers, RL-		1+	14% BSB, 43% Vas, 5% Z	16/26	28.6(39%)	44.9(61%)	
	Springlake Early	1.087	18			2	47% Vas, 10% SE	15/15			Drop?
	Springlake Late	1.084	18	Ob, W, variable, some flat	3.2	1	13% Z, 7% Vas, 47% Dark	8/22			
TX03196-1W	Dalhart	1.058	13	BOT-	3.5	1	27% BSB, 12% Su, 22% Vas, 2% GH	15/26	23(40%)	34.6(60%)	
	Springlake Early										
	Springlake Late										
COTX03270-3W	Dalhart	1.062	14	Variable tuber size, RL, 1 scab	3.5	1	5% GH, 7% Su, 33% Vas, %5 Z	21/21	35.6(54%)	30.1(46%)	
	Springlake Early										
	Springlake Late										
COTX03245-1W	Dalhart	1.055	12	cracking, RL+	3	2	30% Wart?, 10% Z, 3 GR	22/18	36.6(64%)	20.5(36%)	
	Springlake Early										
	Springlake Late										
COTX03270-1W	Dalhart	1.067	15	Pointed, drop, RL-	2.5	1+	BOT, 2.5 GR	42/0	48.6(100%)	0(0%)	
	Springlake Early										
	Springlake Late										
AOTX95309-3W	Dalhart	1.065	14	Nice, RL-	4	1+	2%BSB, 7% Vas,	37/4	58.5(91%)	5.8(9%)	
	Springlake Early	1.079	17			1+	17% Vas	12/18			nice-not very dark
	Springlake Late	1.084	18	OK, Ob, W, small	2.6	1+	23%BSB, 7% Z, 13% Vas	19/30			
PATX99P10-1R/R	Dalhart	1.073	16			3+	67% Vas				ok
	Springlake Early	1.056	12	Bad roadmap, small tuber		3	26% Su, 2% Bruise	40/14	39.5(74%)	13.7(26%)	
	Springlake Late	1.074	16	Ob, Red	3.5	3+	3% BSB	28/2			
NDTX6773-1W	Dalhart	1.054	12	Unattractive appearance, RL+, HS, HH	4	1+	29% BSB, 24% Vas, 6% HH	7/10	11.1(47%)	12.3(53%)	
	Springlake Early	1.085	18	BOT		1	20% Vas, 3% GH	30/0			ok - slight discoloration
	Springlake Late	1.084	17	Ob, W, rough, yield, mix?	3.6	3	100% Vas	0/30 (4tuber)			
COTX03194-2W	Dalhart	1.066	14	Unattractive appearance, small,		1	37% Vas,	19/11	24.2(69%)	10.8(31%)	
	Springlake Early										
	Springlake Late										
ATTX98466-5 R/W-R	Dalhart	1.058	13	Road map, small tubers	3.5	3	50% Dark, 3% Z,	31/31	23.2(49%)	23.6(51%)	
	Springlake Early	1.083	17	BOT		1		30/0			Very Nice
	Springlake Late	1.074	16	Ob, Red	3	3+	Incorrect tubers				
COTX03194-3W	Dalhart	1.067	15			1+	5% GH, 11% BSB, 21 Vas	9/10	12.5(57%)	9.4(43%)	
	Springlake Early										
	Springlake Late										
COTX02377-2W	Dalhart										
	Springlake Early	1.078	16	Nice		1+	33% Vas, 13% BSB	21/9			ok - color slightly off
	Springlake Late	1.085	18	BOT, nice, Ob, W	3.3	1	27% Scab	20/10			
NDTX049265-2W	Dalhart										
	Springlake Early	1.075	16			3+	100% Vas	0/30			DROP
	Springlake Late	1.075	16	BOT, Ob, W	3.5	2-	7% BSB	23/7			
NDTX7571-5AW	Dalhart										
	Springlake Early	1.092	19	Nice BOT		1	10% SE	27/3			Very Nice, BOT
	Springlake Late	1.089	18	Ob, W, buff, Atlantic-like	3.5	2	20% Scab, 57% Vas	6/24			

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

[1]BOT=Best Of Trial, RL=raised lenticels

[2] 1=poor, 5=excellent

[3]1=light, 3+=very dark

[4]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

Addendum to Tables Dalhart 3a, 3b, 3c, 3d, 3e, and 3f
Texas Advanced Chipping SelectionTrial

Location:
Dalhart, Texas

Soil Type
Dallum Fine Sand Loam

Seed Source
Colorado andTexas

Date:		DAP
Planted	April 24, 2007	
Vines Killed	August 6, 2007	102
Harvested	September 17, 2007	143

Plot Information:

Size of Plots	10'
Spacing Between Hills	12"
Spacing Between Rows	30
Hills Per Plot	10
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Four-row digger, with hand pick up.

Fertilizer:
Application:
150-200-100-3 zn # per acre

Irrigation:
Center Pivot

Insecticide:
Venom

Fungicides Applied:
Tops MZ Gaucho

Herbicides Applied:
Sencor DF, Dual Magnam, Chateux, Prowl, Matrix, Select, Intensity

Environmental Factors:
Precipitation was lower than normal during the last week of April, the first three weeks of May, the first, third, and fourth weeks of June, and the second week of August. Precipitation was higher than normal during the second week of April, the second week of May, the second and forth weeks of June, and the first week of August

Dalhart Tuber type, skin color, specific gravity, percent solids, chip color, general Rating, defects, notes, good chip bad chip ratio, good chip weight and percent, bad chip weight and percent of 15 entries to be
Table 4 Advanced from the 2006 Chip Selection Trial grown near Dalhart, Texas-2006.

Variety or Selection	Tuber Type	Skin Color	Specific Gravity	% Solids	Chip Color[1]	General Rating Chip Tubers[2]	Defects/Diseases[3]	Notes[4]	Good/Bad Chip Ratio	Good Chip Wt (g)(%)	Bad Chip Wt (g)(%)
ATX03407-2Ru	Round	Russet	1.064	13.9	2	3.5	50% Vas, 50% Z	Uniform size	0/10	0(0%)	12.1(100%)
ATX03409-1W/Y	Oblong	White	1.070	14.9	2	3.0	60% Vas, 20% Z	Variable size, rough	1/9	1.2(9%)	11.8(91%)
ATX03409-2W/Y	Oblong	White	1.066	14.2	1	3.0	20% Se	Rough	8/2	9.9(77%)	2.9(23%)
ATX03409-3W/Y	Round	White	1.062	13.6	1+	4.0	50% Vas, 10% Z	Some small, buff skin	5/5	6.5(52%)	6.0(48%)
ATX03409-6W/Y	Round	Russet	1.087	18.1	2	3.0	50% Vas, 10% Scab, 10% Z		3/7	3.3(27%)	8.9(73%)
ATX03409-7W/Y	Oblong	White	1.061	13.4	2	3.0	40% Vas, 40% Z	Buff skin	2/8	2.1(20%)	8.3(80%)
NDTX059608-1Ru	Long	White	1.064	13.9	2	3.0	60% Vas, 10% Z	Poor shape	3/7	3.9(33%)	7.8(67%)
NDTX059620-1R	Oblong	White	1.059	13.0	2	4.0	20% Vas, 30% Z	Flat, good size	5/5	3.8(37%)	6.6(63%)
NDTX059632-1W	Oblong	White	1.074	15.6	2	3.0	50% Vas	Shape?	5/5	6.1(56%)	4.7(44%)
NDTX059828-2W	Round	White	1.059	13.1	1+	4.0	60% Vas, 20% Z	Pinkeye, uniform size, BOT-	2/8	2.7(22%)	9.6(78%)
NDTX059902-1W	Oblong	White	1.076	16.1	1	3.5		Uniform size	10/0	11.4(100%)	0(0%)
NDTX059905-1Y/Y	Oblong	White	1.065	14.2	2	3.5	70% Vas, 20% Su		1/9	1.5(11%)	12.3(89%)
NDTX059897-1Y/Y	Round	White	1.063	13.7	2	3.5	40% Vas, 40% Se, 20% Z		0/10	0(0%)	12.8(100%)
TX1475-3W	Oblong	White	1.069	14.9	1	3.0	60% BSB, 20% Vas	Surface cracks(07 Mini tubers)	2/8	3.0(22%)	10.9(78%)
ATTX00289-4W	Oblong	White	1.067	14.4	1	3.5	40% Vas, 10% Se	(07 Mini tubers)	5/5	7.2(55%)	5.9(45%)

One .05" slice per tuber, at least 10 tubers per rep, three reps, 1 min 25 sec, 365^{o}F corn oil.
[1]1=light, 3+=very dark
[2] 1=poor, 5=excellent
[3]Vas=vascular heat necrosis, BSB=blackspot bruise, SE=sugar ends GH=greenheads, Z=zebra
[4]BOT=Best Of Trial

Dalhart Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 33 entries in the Texas Advanced Russet
Table 5a. Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre							General Rating[1]	General Rating[1]
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz.	Under 4 oz.	Culls/ No.2	Field	Grading
TXCR-2RU	938.3	617.2	95.0	246.8	275.5	90.6	145.7	84.7	3.3	2.0
Russet Norkotah 296	728.3	561.5	148.1	230.9	182.5	13.1	117.6	36.2	3.8	3.5
TXCR-4RU	839.0	554.3	84.3	204.3	265.7	75.6	107.4	101.7	3.4	2.3
ATX91137-1RU	616.2	491.4	119.4	250.7	121.3	0.0	114.1	10.7	4.0	3.9
COTX03285-4Ru	744.2	487.1	101.9	131.1	254.1	79.3	111.9	65.8	3.2	3.5
Russet Norkotah 278	595.5	474.4	101.1	215.8	157.5	9.1	86.9	25.0	3.8	4.0
AOTX95265-3Ru	530.3	390.3	98.4	193.0	98.9	14.6	97.4	28.1	3.8	3.9
Stampede Russet	490.6	368.6	81.7	210.4	76.4	2.9	97.3	21.9	3.5	4.4
ATX97232-1RU	479.6	349.8	75.4	151.2	123.3	5.2	98.0	26.6	3.1	2.6
AOTX95265-4Ru	427.0	346.4	50.1	132.6	163.7	28.0	26.7	25.9	4.0	2.5
AOTX96216-2Ru	451.9	336.9	107.2	154.2	75.5	0.0	99.3	15.7	3.3	3.7
ATX9332-12Ru	498.3	336.7	91.0	148.1	97.6	17.9	111.1	32.7	3.1	3.2
AOTX02060-1Ru	438.4	319.5	55.1	112.6	151.8	26.4	50.1	42.5	3.5	3.9
AOTX03096-1Ru	400.1	301.0	52.3	121.5	127.2	14.6	66.4	18.1	3.2	3.9
TXA549-1Ru	428.0	293.6	61.9	145.5	86.2	4.1	90.4	39.9	3.8	3.5
ATX84378-6RU	423.4	286.2	37.5	167.7	81.0	17.6	45.7	73.8	3.0	3.5
COTX03261-1Ru	343.5	253.5	66.6	127.2	59.7	3.0	82.3	4.6	3.1	3.0
AOTX95265-2ARu	357.4	251.5	62.1	118.5	70.9	34.8	54.3	16.8	3.8	3.1
AOTX95269-1Ru	356.5	231.3	114.1	96.9	20.3	0.0	108.2	17.0	3.5	3.1
AOTX95295-1Ru	329.1	223.5	95.4	114.8	13.3	0.0	98.4	7.2	3.3	3.6
AOTX98096-1Ru	294.7	221.5	56.0	101.5	64.0	5.7	67.3	0.2	3.3	3.7
AOTX03134-1Ru	389.3	218.1	68.5	97.9	51.7	20.9	135.0	15.2	3.0	2.2
AOTX96084-1Ru	267.9	203.4	93.9	86.5	23.1	0.0	59.9	4.6	3.5	2.9
AOTX96208-1Ru	320.1	195.8	85.8	86.5	23.5	0.0	123.4	0.9	3.2	2.7
AOTX02066-1Ru	256.6	194.9	60.4	95.0	39.5	0.0	53.4	8.3	3.0	2.8
AOTX96075-1Ru	275.3	191.0	63.8	97.1	30.1	0.0	83.0	1.3	3.2	3.2
AOTX02136-1Ru	236.4	168.6	53.4	77.8	37.5	8.1	57.1	2.6	3.0	3.3
TXNS551	281.0	167.5	59.5	91.0	17.0	5.2	108.2	0.0	3.2	3.3
ATX02014-1Ru	278.6	161.6	64.3	86.0	11.3	0.0	95.6	21.3	3.0	2.7
Russet Norkotah	257.9	160.7	92.8	47.0	20.9	0.0	94.7	2.4	3.1	3.1
AOTX95295-3Ru	278.1	157.5	110.4	44.1	3.0	2.6	117.9	0.0	3.2	2.8
TXNS410	243.7	135.3	48.1	58.6	28.5	0.0	108.5	0.0	3.1	2.9
AOTX98137-1RU	166.0	122.4	46.6	27.9	47.9	5.2	29.2	9.1	3.2	3.3
Average	477.8	340.3	82.5	149.6	108.2	18.5	89.9	29.0	3.4	3.2
L.S.D. (.05)	55.6	47.7	29.9	32.2	42.6	26.8	26.3	27.3	0.1	0.5

[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 33 entries in the Texas Advanced Russet Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
TXCR-2RU	65.5	10.1	26.3	29.2	9.6	15.5	9.3	1.067	14.4	Long	Russet
Russet Norkotah 296	77.0	20.5	31.6	24.9	1.8	16.2	5.0	1.059	13.0	Oblong	Russet
TXCR-4RU	66.1	10.1	24.7	31.4	8.9	12.8	12.2	1.072	15.4	Long	Russet
ATX91137-1RU	79.8	19.5	40.7	19.6	0.0	18.5	1.7	1.056	12.5	Oblong	Russet
COTX03285-4Ru	65.9	13.7	17.7	34.5	10.5	15.1	8.5	1.056	12.4	Oblong	Russet
Russet Norkotah 278	79.6	17.0	36.2	26.4	1.5	14.7	4.2	1.058	12.8	Oblong	Russet
AOTX95265-3Ru	73.6	18.6	36.3	18.7	2.7	18.4	5.3	1.063	13.7	Oblong	Russet
Stampede Russet	75.5	16.8	43.2	15.5	0.5	19.7	4.3	1.049	11.3	Oblong	Russet
ATX97232-1RU	73.0	15.8	31.5	25.8	1.1	20.4	5.5	1.067	14.5	Oblong	Russet
AOTX95265-4Ru	81.1	11.8	31.1	38.2	6.3	6.3	6.2	1.058	12.9	Long	Russet
AOTX96216-2Ru	75.1	23.8	34.4	16.9	0.0	21.8	3.1	1.052	11.8	Oblong	Russet
ATX9332-12Ru	68.0	18.3	29.8	19.9	3.7	22.1	6.2	1.083	17.3	Oblong	Russet
AOTX02060-1Ru	72.8	12.6	25.3	35.0	5.9	11.5	9.8	1.067	14.5	Oblong	Russet
AOTX03096-1Ru	75.4	13.2	30.8	31.4	3.4	16.7	4.5	1.062	13.6	Oblong	Russet
TXA549-1Ru	68.7	14.5	34.6	19.5	0.8	21.4	9.1	1.063	13.7	Oblong	Russet
ATX84378-6RU	67.7	8.8	39.8	19.1	3.8	10.9	17.5	1.054	12.2	Oblong	Russet
COTX03261-1Ru	74.3	19.4	37.8	17.2	1.0	23.3	1.4	1.064	13.9	Oblong	Russet
AOTX95265-2ARu	71.2	17.6	33.4	20.1	8.8	15.4	4.7	1.063	13.8	Long	Russet
AOTX95269-1Ru	64.9	31.9	27.4	5.7	0.0	30.4	4.7	1.052	11.8	Oblong	Russet
AOTX95295-1Ru	68.5	28.7	35.2	4.5	0.0	29.1	2.4	1.054	12.1	Oblong	Russet
AOTX98096-1Ru	75.1	19.3	34.5	21.3	1.8	23.0	0.1	1.058	12.8	Oblong	Russet
AOTX03134-1Ru	56.1	17.8	24.9	13.4	5.5	34.6	3.9	1.064	14.0	Oblong	Russet
AOTX96084-1Ru	75.5	35.5	31.8	8.2	0.0	22.7	1.8	1.055	12.3	Oblong	Russet
AOTX96208-1Ru	61.2	25.8	27.4	8.0	0.0	38.5	0.3	1.052	11.7	Oblong	Russet
AOTX02066-1Ru	75.9	23.8	37.0	15.1	0.0	20.6	3.5	1.068	14.7	Oblong	Russet
AOTX96075-1Ru	69.5	22.9	35.5	11.1	0.0	30.0	0.5	1.049	11.3	Oblong	Russet
AOTX02136-1Ru	71.5	22.4	33.4	15.7	3.1	24.4	1.1	1.061	13.4	Oblong	Russet
TXNS551	59.7	21.3	32.5	5.9	1.6	38.8	0.0	1.051	11.6	Oblong	Russet
ATX02014-1Ru	57.7	22.9	30.3	4.4	0.0	34.1	8.3	1.074	15.8	Oblong	Russet
Russet Norkotah	62.0	35.8	18.5	7.8	0.0	37.1	0.9	1.057	12.6	Oblong	Russet
AOTX95295-3Ru	56.2	38.8	16.3	1.1	1.2	42.7	0.0	1.051	11.6	Oblong	Russet
TXNS410	55.2	19.9	24.0	11.2	0.0	44.8	0.0	1.048	11.2	Oblong	Russet
AOTX98137-1RU	73.6	29.0	18.0	26.6	2.7	19.1	4.7	1.056	12.5	Oblong	Russet
Average	71.5	18.6	32.1	20.8	3.1	20.0	5.4	1.061	13.3		
L.S.D. (.05)	8.2	7.8	8.1	9.3	5.3	6.5	5.6	0.004	0.8		

Dalhart
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 33 entries in the Texas Advanced Russet Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
TXCR-2RU	11.6	7.5	2.1	100	100	2.0	4.6	5.0	5.0	0
Russet Norkotah 296	11.1	5.8	2.9	100	100	1.7	4.5	4.0	4.2	25
TXCR-4RU	9.6	7.9	2.3	100	100	2.0	4.4	5.0	5.0	5
ATX91137-1RU	10.4	5.4	2.3	99	100	2.0	4.1	1.7	4.0	70
COTX03285-4Ru	9.1	11.1	1.7	53	70	2.0	3.1	2.5	3.7	50
Russet Norkotah 278	8.8	6.1	3.6	100	100	1.7	4.2	3.5	4.0	30
AOTX95265-3Ru	7.8	6.1	2.3	100	100	1.9	4.0	2.2	3.5	75
Stampede Russet	8.8	5.0	2.2	91	100	1.7	4.0	3.0	4.0	60
ATX97232-1RU	6.8	6.4	1.9	75	100	2.0	3.7	4.7	4.5	0
AOTX95265-4Ru	6.7	8.1	1.6	63	73	1.7	3.2	3.7	4.0	40
AOTX96216-2Ru	8.0	5.1	3.3	100	100	1.6	3.4	4.0	3.7	20
ATX9332-12Ru	8.0	5.6	2.4	100	100	1.7	3.6	4.7	4.5	0
AOTX02060-1Ru	7.9	6.7	1.8	56	74	1.9	3.2	4.0	3.7	15
AOTX03096-1Ru	6.0	6.3	1.6	93	98	1.9	2.8	4.0	3.7	15
TXA549-1Ru	7.4	5.5	2.6	89	91	2.1	3.8	3.7	4.0	15
ATX84378-6RU	5.4	7.8	1.6	85	89	1.7	3.7	3.0	4.7	20
COTX03261-1Ru	8.0	5.4	2.1	65	75	2.1	3.3	2.7	3.0	75
AOTX95265-2ARu	5.4	6.7	1.7	90	94	1.7	3.6	2.7	3.7	50
AOTX95269-1Ru	7.6	4.1	2.2	95	100	1.8	3.3	3.2	3.5	30
AOTX95295-1Ru	6.9	4.4	2.8	100	100	1.9	3.4	3.0	2.5	45
AOTX98096-1Ru	5.7	5.2	2.2	89	93	1.8	2.6	3.0	3.2	40
AOTX03134-1Ru	9.1	4.0	3.1	95	99	2.0	3.7	2.0	3.0	60
AOTX96084-1Ru	5.3	4.6	2.4	100	100	1.5	2.6	3.0	3.5	60
AOTX96208-1Ru	7.9	3.8	2.6	95	96	1.6	3.1	3.2	3.2	50
AOTX02066-1Ru	6.5	4.8	1.5	69	78	2.0	2.3	2.7	3.5	75
AOTX96075-1Ru	6.4	4.2	2.6	94	96	1.5	2.8	3.5	3.0	20
AOTX02136-1Ru	5.3	4.9	1.8	75	85	1.9	2.1	4.0	3.2	10
TXNS551	6.2	4.2	2.7	100	100	1.5	2.7	2.7	3.5	40
ATX02014-1Ru	6.7	4.2	2.2	85	88	2.0	1.8	4.7	3.0	5
Russet Norkotah	7.7	3.7	4.0	74	85	2.0	3.2	2.7	3.0	75
AOTX95295-3Ru	7.3	3.5	2.5	100	100	1.7	3.0	2.0	2.5	45
TXNS410	6.0	3.8	3.3	99	100	1.5	2.7	3.2	3.2	20
AOTX98137-1RU	4.1	5.3	2.2	68	70	2.0	2.4	2.0	2.0	30
Average	7.8	6.0	2.3	88	93	1.8	3.5	3.4	3.8	37
L.S.D. (.05)	1.5	1.1	0.5	13	11	0.2	0.3	0.1	0.1	3

[1] 1= upright, 2= semiprostrate, 3= prostrate
[2] 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous
[3] 1= very early, 2= early, 3= medium, 4=late, 5= very late
[4] 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart
Table 5d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobbiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 33 entries in the Texas Advanced Russet Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	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
TXCR-2RU	1.0	5.0	2.0	4.0	3.2	5.0	5.0	5.0	5.0	5.0	0	0	0	3
Russet Norkotah 296	1.0	4.3	5.0	4.0	4.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXCR-4RU	1.0	5.0	2.0	4.0	3.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX91137-1RU	1.0	4.0	5.0	4.0	4.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX03285-4Ru	1.0	4.4	5.0	4.0	4.4	5.0	5.0	5.0	4.8	5.0	0	0	0	0
Russet Norkotah 278	1.0	4.5	5.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX95265-3Ru	1.0	4.5	5.0	3.7	4.4	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Stampede Russet	1.0	3.8	5.0	4.0	4.2	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX97232-1RU	1.0	4.0	5.0	4.0	3.8	5.0	5.0	5.0	4.8	5.0	0	0	0	10
AOTX95265-4Ru	1.0	4.5	5.0	3.7	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
AOTX96216-2Ru	1.0	3.8	5.0	3.8	4.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX9332-12Ru	1.0	4.0	5.0	4.5	3.8	5.0	5.0	5.0	4.5	5.0	15	0	0	0
AOTX02060-1Ru	1.0	4.0	5.0	4.0	4.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX03096-1Ru	1.0	4.0	5.0	4.0	4.4	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXA549-1Ru	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	23
ATX84378-6RU	1.0	3.7	5.0	4.0	4.5	3.8	5.0	5.0	4.3	5.0	0	0	0	0
COTX03261-1Ru	1.0	4.0	5.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX95265-2ARu	1.0	4.0	5.0	3.7	4.1	5.0	5.0	5.0	5.0	5.0	8	0	0	0
AOTX95269-1Ru	1.0	4.0	5.0	4.0	4.0	5.0	5.0	5.0	5.0	4.8	3	0	5	0
AOTX95295-1Ru	1.0	4.0	5.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	3	0	0	0
AOTX98096-1Ru	1.0	4.4	5.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX03134-1Ru	1.0	4.0	5.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
AOTX96084-1Ru	1.0	3.7	5.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX96208-1Ru	1.0	3.7	5.0	4.4	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX02066-1Ru	1.0	3.8	5.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX96075-1Ru	1.0	3.7	5.0	4.2	4.5	5.0	5.0	5.0	5.0	5.0	0	0	3	0
AOTX02136-1Ru	1.0	4.0	5.0	4.0	4.1	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXNS551	1.0	3.7	5.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX02014-1Ru	1.0	3.5	5.0	3.7	4.5	5.0	5.0	5.0	4.5	5.0	0	0	0	0
Russet Norkotah	1.2	4.0	5.0	3.7	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX95295-3Ru	1.0	3.5	5.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXNS410	1.0	3.7	5.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOTX98137-1RU	1.0	4.3	5.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	1.0	4.0	4.8	4.0	4.2	5.0	5.0	5.0	4.9	5.0	1	0	0	1
L.S.D. (.05)		0.2		0.1	0.2	0.1			0.2		6		2	6

[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 33 entries in the Texas Advanced Russet Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
TXCR-2RU	yield+, poor shape, , ,	curved, long, pointed, skinny, close set, ,	3.3, 3.3, 3.3, 3.3	2, 2, 2, 2
Russet Norkotah 296	yield, , ,	rough, curved, , ,	3.8, 3.8, 3.8, 3.8	3.5, 3.5, 3.5, 3.5
TXCR-4RU	yield+, poor shape, , ,	curved, pointed, yield+, long, ugly, rough, ,	3.4, 3.4, 3.4, 3.4	2.5, 2, 2, 2.5
ATX91137-1RU	smooth, very nice, BOT, , ,	very nice, blocky, 20 ZC, , ,	4, 4, 4, 4	3.8, 4, 3.7, 4
COTX03285-4Ru	yield, , ,	light set, better shape than 378, very large tubers, rough, pointed,	3.2, 3.2, 3.2, 3.2	4, 4, 3, 3
Russet Norkotah 278	nice shape, , ,	yield+, rough, nice, curved, 20 ZC, 30 ZC,	3.8, 3.8, 3.8, 3.8	4, 4, 4, 4
AOTX95265-3Ru	nice shape, , ,	very nice, rough, some curved, 10 ZC, ,	3.8, 3.8, 3.8, 3.8	4, 3.9, 3.8, 3.7
Stampede Russet	very nice, , ,	blockt, BOT+, , ,	3.5, 3.5, 3.5, 3.5	4.5, 4, 4.5, 4.5
ATX97232-1RU	rough, drop, , ,	rough, lage tubers, pointed, blocky, drop, ,	3.1, 3.1, 3.1, 3.1	3, 2.2, 3, 2.2
AOTX95265-4Ru	nice shape, , ,	large tubers, skinny curved, rough, ugly skin set,	4, 4, 4, 4	3.5, 2.5, 2, 2
AOTX96216-2Ru	crooked, rough, , ,	blocky, nice, ,	3.3, 3.3, 3.3, 3.3	3.7, 3.7, 3.7, 3.7
ATX9332-12Ru	rough, drop, , rough, drop,	knobs, raised eyes, blocky, knobs, raised eyes, blocky	3.1, 3.1, 3.1, 3.1	2.7, 3.7, 2.7, 3.7
AOTX02060-1Ru	yield, , ,	large tubers, nice shape, rough, BOT, , ,	3.5, 3.5, 3.5, 3.5	4.2, 4.2, 3.7, 3.5
AOTX03096-1Ru	drop, , ,	blocky, nice shape and skin, some raised eyes, ,	3.2, 3.2, 3.2, 3.2	3.8, 3.8, 3.8, 4
TXA549-1Ru	blocky, BOT-, , ,	10 ZC, poor internals, 40 ZC, blocky, rough, 10 ZC,	3.8, 3.8, 3.8, 3.8	3, 3.5, 3.5, 3.8
ATX84378-6RU	blocky, rough, growth cracks, , ,	growth cracks, light set, , large tubers, rough, raised eyes,	3, 3, 3, 3	3.5, 3.5, 3.5, 3.5
COTX03261-1Ru	small, , ,	small, drop, poor yield, rough, nice, blocky,	3.1, 3.1, 3.1, 3.1	2.5, 2.5, 3.7, 3.2
AOTX95265-2ARu	pointed, , ,	rough, curved, poor shape, poor internals, 40 ZC, 30 ZC, 20 ZC	3.8, 3.8, 3.8, 3.8	3, 3.2, 3.2, 3
AOTX95269-1Ru	blocky, , ,	small, feathering, rough, close set,	3.5, 3.5, 3.5, 3.5	2.7, 2.8, 3.2, 3.5
AOTX95295-1Ru	small, , ,	nice shape, blocky, , ,	3.3, 3.3, 3.3, 3.3	3.2, 3.8, 3.7, 3.7
AOTX98096-1Ru	blocky, , ,	rough, nice, blocky, nice shape, ,	3.3, 3.3, 3.3, 3.3	3.5, 3.7, 3.9, 3.7
AOTX03134-1Ru	drop, , ,	close set, rough, skinny, blocky, pointed, 40 ZC, drop,	3, 3, 3, 3	2.2, 2.7, 2, 2
AOTX96084-1Ru	small, , ,	small, blocky, curved, rough, close set,	3.5, 3.5, 3.5, 3.5	3.2, 2.7, 2.5, 3.2
AOTX96208-1Ru	drop?, , ,	rough, small, 10 ZC, drop, ,	3.2, 3.2, 3.2, 3.2	3, 2.5, 2.7, 2.7
AOTX02066-1Ru	poor shape, drop, , ,	pointed, dumb bell, , poor shape, , blocky, small, drop,	3, 3, 3, 3	3.5, 2.5, 1.5, 3.5
AOTX96075-1Ru	poor shape, small, , ,	pointed, small, close set, blocky,	3.2, 3.2, 3.2, 3.2	2.7, 3.5, 3.2, 3.5
AOTX02136-1Ru	drop, , ,	close set, rough, blocky, nice shape, ,	3, 3, 3, 3	2.7, 3.5, 3.5, 3.5
TXNS551	, , ,	skinny, small, rough+, ,	3.2, 3.2, 3.2, 3.2	3.5, 3.2, 3.5, 3
ATX02014-1Ru	blocky, small, drop, , ,	rough, small, ugly, poor shape, raised eyes, ,	3, 3, 3, 3	3.5, 2.7, 2, 2.5
Russet Norkotah	small, drop?, , ,	rough, small, yield-, , ,	3.1, 3.1, 3.1, 3.1	3, 3.2, 3, 3
AOTX95295-3Ru	small, , ,	very small, yield-, , ,	3.2, 3.2, 3.2, 3.2	2.5, 2.5, 2.5, 3.5
TXNS410	, , ,	small, rough, yield-, pointed, ,	3.1, 3.1, 3.1, 3.1	3, 3.2, 2.7, 2.5
AOTX98137-1RU	poor shape, , ,	pointed, skinny, rough, , ,	3.2, 3.2, 3.2, 3.2	3.5, 3, 3.5, 3

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Table 5f.

Specific gravity, percent solids, tuber notes, chip color rating, chip defects, good chip bad chip ratio, and good chip bad chip weight and percentage of 33 entries in the Texas Advanced Russet Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	Location	Gravity	% Solids	Tuber Notes[1]	Chip Color[2]	Chip Defects[3]	Good/Bad Chip Ratio	Good Chip Wt (g)(%)	Bad Chip Wt (g)(%)
TXCR-2RU	Dalhart	1.067	14	Light russet	1+	73% Dark, 3% Scab, 15% Vas, 5% Z	0/40	0(0%)	44.1(100%)
Russet Norkotah 296	Dalhart	1.059	13	BOT	1+	8% BSB, 23% Dark, 23% Vas, 8% Z	16/24	20.6(41%)	29.7(59%)
TXCR-4RU	Dalhart	1.072	15	Light russet	1+	3% TM, 55% Dark, 35% Vas	4/36	5.4(10%)	46.1(90%)
ATX91137-1RU	Dalhart	1.056	13	BOT	1+	33% Dark, 35% Vas, 5% Z	10/30	14.9(27%)	40(73%)
COTX03285-4Ru	Dalhart	1.056	12	Light russet, poor shape, pointed, Drop	1+	28% Dark, 30% Vas	17/23	22.1(46%)	26(54%)
Russet Norkotah 278	Dalhart	1.058	13	BOT	2	5% BSB, 13% Dark, 35% Vas, 23% Z	11/29	14.5(29%)	34.8(71%)
AOTX95265-3Ru	Dalhart	1.063	14	BOT	1	13% Dark, 53% Vas, 3% Z	13/27	18(33%)	36.6(67%)
Stampede Russet	Dalhart	1.049	11	BOT+	1	25% Dark, 40% Vas	14/26	18.4(38%)	30.4(62%)
ATX97232-1RU	Dalhart	1.067	15	Light Russet	1	26% Dark, 26% Vas	10/10	14.8(49%)	15.1(51%)
AOTX95265-4Ru	Dalhart	1.058	13	BOT+	1	53% Dark, 20% Vas, 8% Z	7/33	9.4(20%)	37.3(80%)
AOTX96216-2Ru	Dalhart	1.052	12	Blocky	1+	3% BSB, 50% Dark, 23% Vas, 13% Z	6/34	7.2(14%)	42.6(86%)
ATX9332-12Ru	Dalhart	1.083	17	Drop?	1+	86% Dark, 6% Z	2/18	2.3(7%)	29.6(93%)
AOTX02060-1Ru	Dalhart	1.067	14	BOT+	1	3% Dark, 3% BSB, 42% Vas	21/17	28.7(57%)	22(43%)
AOTX03096-1Ru	Dalhart	1.062	14	Blocky, light russet	1	8% GH, 33% Vas, 20% Z	16/24	22.2(40%)	34(60%)
TXA549-1Ru	Dalhart	1.063	14	Light russet , blocky	1	38% Vas, 10% Z, BOT Chip	22/18	29.1(53%)	25.4(47%)
ATX84378-6RU	Dalhart	1.054	12	Rhizoc, growth cracks, BOT-	1+	20% Dark, 33% Vas, 10% Z	15/25	23.3(42%)	32.3(58%)
COTX03261-1Ru	Dalhart	1.064	14	Light Russet, Drop	1+	10% Dark, 30% Vas, 8% Z	19/21	23.6(51%)	23(49%)
AOTX95265-2ARu	Dalhart	1.063	14	BOT-	1+	3% HH, 5% BSB, 23% Vas, 30% Z	16/24	22.5(42%)	31.4(58%)
AOTX95269-1Ru	Dalhart	1.052	12	BOT-	1	53% Dark, 25% Vas, 5% Z	6/34	7.8(16%)	39.8(84%)
AOTX95295-1Ru	Dalhart	1.054	12		1+	48% Dark, 20% Vas, 8% Z	10/30	11.4(24%)	36.2(76%)
AOTX98096-1Ru	Dalhart	1.058	13		1+	5% TM, 50% Dark, 5% BSB, 33% Vas	3/37	4.1(8%)	44.7(92%)
AOTX03134-1Ru	Dalhart	1.064	14	Drop?	1+	5% BSB, 8% Dark, 5% GH, 63% Vas	8/32	10.9(20%)	43.6(80%)
AOTX96084-1Ru	Dalhart	1.055	12		1+	53% Vas, 13% Z	14/26	16.8(36%)	29.4(64%)
AOTX96208-1Ru	Dalhart	1.052	12	Blocky, BOT-	1	30% Dark, 3% GH, 40% Vas, 13% Z	6/34	6.9(15%)	38.4(85%)
AOTX02066-1Ru	Dalhart	1.068	15	Raised eyes, light Ru	1	10% BSB, 28% Vas, 5% Z BOT Chip	22/18	30.5(58%)	22.1(42%)
AOTX96075-1Ru	Dalhart	1.049	11		1	33% Dark, 45% Vas, 15% Z	3/37	2.9(6%)	43.5(94%)
AOTX02136-1Ru	Dalhart	1.061	13		1	28% Vas, 8% Z	25/15	30.6(65%)	16.4(35%)
TXNS551	Dalhart	1.051	12		2	25% Dark, 35% Vas	16/24	20(42%)	27.4(58%)
ATX02014-1Ru	Dalhart	1.074	16	Rough, DROP	2+	33% Dark, 3% HH, 5% BSB, 20% Vas	16/24	28(43%)	37.8(57%)
Russet Norkotah	Dalhart	1.057	13	BOT	1	3% GH, 5% Dark, 30% Vas, 10% Z	20/20	22.6(51%)	21.9(49%)
AOTX95295-3Ru	Dalhart	1.051	12		1	43% Dark, 10% Vas, 18% Z	5/35	6(13%)	38.8(87%)
TXNS410	Dalhart	1.048	11		2	15% Dark, 48% Vas, 13% Z	11/29	13.1(29%)	31.9(71%)
AOTX98137-1RU	Dalhart	1.056	13		1+	36% Dark, 30% Vas, 10% Z	5/15	5.7(23%)	18.8(77%)

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

[1]BOT=Best Of Trial

[2]1=light, 3+=very dark

[3]Vas=vascular heat necrosis, Dark=high sugars, BSB=blackspot bruise, HH=hollow heart, IBS=internal brownspot, SE=sugar ends, PB= , GH=greenheads, TM=tuber moth Z=zebra

Addendum to Tables Dalhart 5a, 5b, 5c, 5d, 5e, and 5f
Texas Advanced Russet Selection Trial

Location:
Dalhart, Texas

Soil Type
Dallum Fine Sand Loam

Seed Source
Colorado andTexas

Date:		DAP
Planted	April 24, 2007	
Vines Killed	September 18, 2007	144
Harvested	October 1, 2007	157

Plot Information:

Size of Plots	10'
Spacing Between Hills	12"
Spacing Between Rows	30
Hills Per Plot	10
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Four-row digger, with hand pick up.

Fertilizer:
Application:
150-200-100-3 zn # per acre

Irrigation:
Center Pivot

Insecticide:
Venom

Fungicides Applied:
Tops MZ Gaucho

Herbicides Applied:
Sencor DF, Dual Magnam, Chateux, Prowl, Matrix, Select, Intensity

Environmental Factors:
Precipitation was lower than normal during the last week of April, the first three weeks of May, the first, third, and fourth weeks of June, and the second week of August. Precipitation was higher than normal during the second week of April, the second week of May, the second and forth weeks of June, and the first week of August

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Table 6. General rating, tuber type, skin color, notes, and remnant weight for 9 entries to be advanced from the 06 russet selections grown near Dalhart, Texas-2007.

Variety or Selection	General Rating Field	Tuber Type	Skin Color	Notes	Rem. Wt.
AOTX99008-1Ru	3.3	Oblong	Russet	rough, nice flesh, keep	
AOTX99194-1Ru	3.2	Oblong	Russet	Keep	
ATX03003-1Ru	3.2	Oblong	Russet	blocky, rough, BOT	
ATX03003-7Ru	3.4	Oblong	Russet	blocky, light russet skin, keep	
ATX03068-1Ru	3.2	Oblong	Russet	blocky	
ATX03077-2Ru	3.3	Oblong	Russet	large tubers, BOT	
ATX03424-1Ru	3.3	Oblong	Russet	nice shape, small, keep	
ATX99194-3Ru	3.2	Oblong	Russet	light russet skin, keep(07 Mini tubers)	
NDTX8773-4RU	3.2	Oblong	Russet	blocky, BOT, Keep	

Dalhart Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 17 entries in the Texas Advanced Red
Table 7a. Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz.	Under 4 oz.	Culls/ No.2	General Rating[1] Field	General Rating[1] Grading
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.					
NDTX731-1R	535.9	431.8	163.8	201.8	66.2	0.0	94.7	9.4	4.0	3.4
Red LaSoda	557.5	369.4	69.4	133.6	166.4	31.0	126.9	30.2	3.0	3.2
Dark Red Norland	485.3	302.3	95.4	120.2	86.7	8.3	101.9	72.7	2.5	2.0
COTX94218-1R	448.0	216.5	144.3	65.3	6.9	0.0	226.2	5.2	3.5	3.7
NDTX4271-5R	446.9	212.6	85.7	68.8	58.1	0.0	209.7	24.6	4.0	4.0
COTX00104-7R	310.6	169.3	78.8	83.8	6.8	0.0	137.8	3.5	3.6	3.1
NDTX4847-7R	287.5	152.0	68.2	66.3	17.4	0.0	111.3	24.2	3.5	3.4
NDTX4784-7R	199.5	128.4	63.9	52.3	12.2	0.0	59.8	11.3	3.7	3.4
BTX2332-1R	203.9	111.1	52.7	58.4	0.0	0.0	88.9	3.9	3.8	3.4
ATTX98453-6R	197.6	103.2	55.5	42.1	5.7	0.0	84.8	9.6	3.5	3.4
NDTX039190-1R	179.0	80.6	31.4	29.6	19.6	0.0	62.3	36.2	3.0	3.6
COTX02172-1R	194.2	72.2	59.8	12.4	0.0	0.0	116.7	5.2	3.0	3.0
ATX00270-2R	184.3	63.2	56.2	7.0	0.0	0.0	119.4	1.7	3.2	3.2
NDTX049349-12R	169.6	38.5	34.3	4.2	0.0	0.0	128.6	2.4	3.0	2.9
Rio Rojo	42.5	19.4	8.9	7.2	3.3	0.0	21.8	1.3	1.5	1.5
COTX00411-4R	161.8	17.9	15.7	2.2	0.0	0.0	133.1	10.9	3.2	3.0
COTX03254-2R	34.8	11.3	11.3	0.0	0.0	0.0	23.5	0.0	2.5	1.5
Average	272.9	147.0	64.4	56.2	26.4	2.3	108.7	14.8	3.2	3.0
L.S.D. (.05)	42.4	32.2	27.9	29.8	18.4	9.2	28.6	16.1	0.5	0.2

[1] 1=very poor to 5= excellent

Dalhart
Table 7b. Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 17 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
NDTX731-1R	80.5	30.8	37.4	12.2	0.0	17.7	1.8	1.050	11.5	Oblong	Red
Red LaSoda	66.3	12.5	24.0	29.8	5.6	22.6	5.5	1.059	13.0	Oblong	Red
Dark Red Norland	62.2	20.0	24.5	17.7	1.8	21.2	14.8	1.058	12.9	Oblong	Red
COTX94218-1R	48.3	32.2	14.5	1.6	0.0	50.5	1.1	1.060	13.2	Oblong	Red
NDTX4271-5R	47.7	19.4	15.4	12.9	0.0	46.8	5.4	1.061	13.5	Round	Red
COTX00104-7R	55.0	24.9	27.9	2.2	0.0	44.1	0.9	1.029	7.6	Round	Red
NDTX4847-7R	52.6	23.8	22.9	5.9	0.0	38.9	8.5	1.043	10.2	Oblong	Red
NDTX4784-7R	64.3	31.9	26.8	5.5	0.0	29.7	6.1	1.022	6.5	Oblong	Red
BTX2332-1R	54.2	25.1	29.2	0.0	0.0	43.5	2.2	1.039	9.4	Round	Red
ATTX98453-6R	52.4	28.6	21.0	2.8	0.0	42.8	4.7	1.051	11.6	Round	Red
NDTX039190-1R	44.5	17.3	16.2	10.9	0.0	35.7	19.8	1.034	8.6	Oblong	Red
COTX02172-1R	37.9	32.0	5.9	0.0	0.0	59.1	3.0	1.026	7.2	Oblong	Red
ATX00270-2R	34.1	30.2	3.9	0.0	0.0	65.1	0.8	1.058	12.8	Round	Red
NDTX049349-12R	22.3	20.0	2.3	0.0	0.0	76.6	1.1	1.038	9.3	Oblong	Red
Rio Rojo	46.6	27.9	13.0	5.6	0.0	50.4	3.1	1.058	12.8	Round	Red
COTX00411-4R	10.1	9.0	1.1	0.0	0.0	84.6	5.3	1.048	11.1	Round	Red
COTX03254-2R	34.6	34.6	0.0	0.0	0.0	65.4	0.0	1.033	8.3	Round	Red
Average	47.9	24.7	16.8	6.3	0.4	46.8	4.9	1.045	10.6		
L.S.D. (.05)	10.0	11.9	7.4	5.1	1.7	10.7	5.7	0.007	1.3		

Dalhart
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 17 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
NDTX731-1R	10.8	4.6	1.6	98	99	1.7	4.1	3.0	3.7	75
Red LaSoda	8.9	5.6	2.8	100	100	1.9	3.9	2.5	3.7	75
Dark Red Norland	7.5	3.7	2.5	100	100	2.1	3.9	2.5	3.0	75
COTX94218-1R	13.2	3.1	4.3	99	100	2.1	3.9	4.7	4.5	10
NDTX4271-5R	13.6	3.1	1.9	90	94	2.0	3.9	4.0	4.5	20
COTX00104-7R	9.5	3.1	2.7	98	99	2.0	3.6	4.0	4.5	10
NDTX4847-7R	13.3	2.6	1.7	61	72	2.0	3.3	2.5	3.7	70
NDTX4784-7R	12.9	3.3	1.7	36	44	2.0	2.7	3.7	4.0	20
BTX2332-1R	12.5	3.1	2.2	40	50	2.0	2.8	4.0	4.5	5
ATTX98453-6R	7.3	2.8	1.9	76	86	2.0	3.4	2.7	3.0	50
NDTX039190-1R	7.3	3.3	1.3	38	58	2.0	2.0	4.5	3.0	5
COTX02172-1R	16.8	2.1	3.1	45	55	2.0	2.6	3.0	3.5	15
ATX00270-2R	10.8	2.3	1.9	60	69	2.0	3.2	3.5	3.7	15
NDTX049349-12R	11.4	2.1	2.4	49	64	2.0	3.1	2.5	3.5	50
Rio Rojo	4.8	2.6	1.6	30	30	2.0	1.0	3.5	1.5	10
COTX00411-4R	6.9	2.2	2.5	91	96	1.9	2.4	1.5	2.5	90
COTX03254-2R	2.4	2.0	1.8	59	71	1.8	1.4	5.0	1.5	15
Average	10.0	3.0	2.2	69	76	2.0	3.0	3.4	3.4	36
L.S.D. (.05)	3.7	0.7	0.5	12	14	0.1	0.4			

[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, knobbiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 17 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	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
NDTX731-1R	1.0	1.5	1.5	2.0	3.7	5.0	5.0	5.0	5.0	5.0	3	0	25	0
Red LaSoda	1.0	3.5	1.5	2.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Dark Red Norland	1.0	3.2	3.5	3.7	2.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX94218-1R	1.0	1.6	1.5	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX4271-5R	1.0	2.0	2.7	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX00104-7R	1.0	2.9	2.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	0	0	3	0
NDTX4847-7R	1.0	1.5	1.5	3.9	4.4	5.0	5.0	5.0	5.0	5.0	0	0	5	0
NDTX4784-7R	1.0	2.0	1.5	3.9	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX2332-1R	1.0	1.7	2.0	3.7	4.0	5.0	5.0	5.0	5.0	5.0	0	0	10	0
ATTX98453-6R	1.0	3.3	1.5	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX039190-1R	1.0	1.7	1.5	4.0	4.3	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX02172-1R	1.0	3.3	2.0	3.7	3.1	5.0	5.0	5.0	5.0	5.0	0	0	18	0
ATX00270-2R	1.0	2.2	2.0	3.8	3.6	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX049349-12R	1.0	3.4	1.5	3.6	3.9	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Rio Rojo	1.0	2.0	2.7	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX00411-4R	1.0	2.2	1.5	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX03254-2R	1.0	2.0	1.0	3.5	3.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	1.0	2.3	1.8	3.6	3.7	5.0	5.0	5.0	5.0	5.0	0	0	4	0
L.S.D. (.05)		0.5		0.1	0.2						2		9	

[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 17 entries in the Texas Advanced Red Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
NDTX731-1R	yield+,deep eyes, BOT, , ,	deep eyes,, many problems, poor skin finish, high yield, nice shape,	4.2, 3.8, 4.1, 3.9	3.7, 3.3, 3.3, 3.4
Red LaSoda	, , ,	deep eyes, rough, , ,	3.2, 2.8, 3.1, 2.9	3.2, 3.2, 3.2, 3.2
Dark Red Norland	, , ,	faded skin color, road map, , ,	2.7, 2.3, 2.6, 2.4	2, 2, 2, 2
COTX94218-1R	2 reps only, nice shape, , ,	very nice flesh, keep+, BOT, , ,	3.7, 3.3, 3.6, 3.4	3.7, 3.5, 4, 3.7
NDTX4271-5R	, , ,	some road map, BOT, , ,	4.2, 3.8, 4.1, 3.9	4, 4, 4, 4
COTX00104-7R	2 bad reps, nice flesh, , ,	green sprouts, ugly, second growth, , flat, road map, nice flesh, , early,	3.8, 3.4, 3.7, 3.5	2.5, 3.2, 3.3, 3.3
NDTX4847-7R	heat sprouts, , ,	road map, 10 green head, 10 ZC, fair interior, road map,	3.7, 3.3, 3.6, 3.4	3.4, 3.3, 3.4, 3.3
NDTX4784-7R	heat sprouts, nice shape, nice fresh, BOT, , ,	, poor skin finish, road map+, early, translucent flesh,	3.9, 3.5, 3.8, 3.6	3.3, 3.7, 3.4, 3.3
BTX2332-1R	nice, , ,	nice flesh, lenticels, ,	4, 3.6, 3.9, 3.7	3.3, 3.4, 3.3, 3.4
ATTX98453-6R	very white flesh, pale red skin, , ,	20ZC, 20 Green head, nice internals,	3.7, 3.3, 3.6, 3.4	3.6, 3.2, 3.5, 3.2
NDTX039190-1R	heat sprouts, rough, , heat sprouts, rough,	rough, nice flesh,BOT, , ,	3.2, 2.8, 3.1, 2.9	3.5, 3.7, 3.5, 3.7
COTX02172-1R	poor shape, drop?, , ,	rough, pale, skin, 30 green head, drop?, , ,	3.2, 2.8, 3.1, 2.9	3, 3, 3, 3
ATX00270-2R	small, not as white flesh, poor internals, rot, , ,	20 Green head, nice flesh, , ,	3.4, 3, 3.3, 3.1	3.2, 3.2, 3.5, 3
NDTX049349-12R	small, heat sprouts, drop, , ,	poor shape, nice flesh, 30 ZC,, low yield, small, drop++, ,	3.2, 2.8, 3.1, 2.9	2.5, 3, 3, 3
Rio Rojo	, , ,	, , ,	1.7, 1.3, 1.6, 1.4	1.5, 1.5, 1.5, 1.5
COTX00411-4R	small, nice flesh, low yield, , ,	small, yield-, nice flah, drop, , ,	3.4, 3, 3.3, 3.1	3, 3, 3, 3
COTX03254-2R	poor yield, , ,	drop, , ,	2.7, 2.3, 2.6, 2.4	1.5, 1.5, 1.5, 1.5

Addendum to Tables Dalhart 7a, 7b, 7c, 7d, and 7e
Texas Advanced Red Selection Trial

Location:
Dalhart, Texas

Soil Type
Dallum Fine Sand Loam

Seed Source
Colorado andTexas

Date:		DAP
Planted	April 24, 2007	
Vines Killed	August 6, 2007	102
Harvested	October 1, 2007	157

Plot Information:

Size of Plots	10'
Spacing Between Hills	12"
Spacing Between Rows	30
Hills Per Plot	10
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Four-row digger, with hand pick up.

Fertilizer:
Application:
150-200-100-3 zn # per acre

Irrigation:
Center Pivot

Insecticide:
Venom

Fungicides Applied:
Tops MZ Gaucho

Herbicides Applied:
Sencor DF, Dual Magnam, Chateux, Prowl, Matrix, Select, Intensity

Environmental Factors:
Precipitation was lower than normal during the last week of April, the first three weeks of May, the first, third, and fourth weeks of June, and the second week of August. Precipitation was higher than normal during the second week of April, the second week of May, the second and forth weeks of June, and the first week of August

Dalhart
Table 8. General rating, tuber type, skin color, notes, and remnant weight for 10 entries to be advanced from the 06red selections grown near Dalhart, Texas-2007.

Variety or Selection	General Rating Field	Tuber Type	Skin Color	Notes	Rem. Wt.
AOTX91861-4R	4.3	Oblong	Red	nice, heavy set, keep, To CAL (07 Mini tubers)	
AOTX93483-1R	3.2	Oblong	Red	nice yield, stem attachment, feathering, keep(07 Mini tubers)	
COTX04340-1R	3.2	Oblong	Red	dark red skin, keep	
COTX94416-1R	3.5	Round	Red	small, good color, heavy set, keep(07 Mini tubers)	
NDTX059878-1R	3.2	Round	Red	early, growth crack	
NDTX059827-1R	3.2	Round	Red	small, keep	
NDTX059845-1R	3.2	Round	Red	nice skin, keep	
NDTX5067-2R	3.5	Round	Red	late, dormancy, heavy set, low yield, keep(07 Mini tubers)	
NDTX5438-11R	3.5	Oblong	Red	shape, small, elongated, drop?, keep(07 Mini tubers)	
NDTX7590-3R	3.5	Round-Oblong	Red	small, heavy set, nice tubers, keep(07 Mini tubers)	

Dalhart Table 9a. Total yield, total yield of U.S. No.1, under 4 ounce and culls/No.2 potatoes and general rating of 32 entries in the Texas Advanced Specialty Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre							General Rating[1]	General Rating[2]
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.	Over 18 oz.	Under 4 oz.	Culls/ No.2	Field	Grading
TXYG79	383.5	300.6	150.3	95.4	54.9	0.0	83.0	0.0	4.0	4.0
TXYG57	378.5	292.7	92.8	91.9	108.0	0.0	85.8	0.0	4.0	4.0
RZ94-2262	393.6	255.3	111.3	137.9	6.1	0.0	116.1	22.2	3.5	3.2
TXYG55	303.4	249.2	77.3	117.4	54.5	0.0	54.2	0.0	4.0	4.0
Ambra	336.6	247.0	87.9	125.3	33.8	0.0	88.6	1.1	4.0	4.4
TXYG107	282.3	230.0	64.0	86.2	79.7	0.0	52.3	0.0	4.0	4.0
TX1523-1Ru/Y	269.4	209.5	39.2	77.3	93.0	0.0	59.9	0.0	4.0	4.0
COTX03079-1W/Y	353.9	204.9	116.3	63.0	25.6	0.0	149.0	0.0	4.2	3.5
TXYG98	310.1	200.8	95.4	69.3	36.2	0.0	109.3	0.0	4.0	4.0
TXYG105	252.2	196.5	50.5	79.3	66.6	0.0	55.8	0.0	4.0	4.0
ATTX98500-2P/Y	445.2	191.2	128.9	62.3	0.0	0.0	254.0	0.0	3.3	3.0
ATTX98500-3P/Y	348.5	187.5	98.2	69.0	20.3	0.0	161.0	0.0	3.4	3.2
Vivaldi	272.7	180.8	99.8	79.1	2.0	0.0	84.5	7.4	4.0	4.4
Yukon Gold	216.5	176.0	44.6	99.3	32.0	0.0	37.0	3.5	4.0	3.0
COTX03039-1R/Y	237.5	169.3	63.0	54.9	51.4	0.0	68.2	0.0	3.5	3.8
Snowbird	289.2	168.6	70.8	96.0	1.7	0.0	110.9	9.8	3.7	3.7
BTX1544-2W/Y	218.0	154.0	59.7	94.3	0.0	0.0	64.0	0.0	4.0	4.0
COTX04096-1R/Y	285.8	150.7	77.1	73.6	0.0	0.0	135.0	0.0	3.5	3.5
TX1674-1W/Y	240.3	139.9	53.6	58.7	27.7	0.0	100.4	0.0	4.0	3.5
COTX03187-1W	263.1	126.3	76.2	48.6	1.5	0.0	136.8	0.0	4.0	3.5
BIC96606-32	267.9	125.9	74.1	51.8	0.0	0.0	129.8	12.2	3.7	3.2
ATX02263-1R/Y	245.5	107.9	59.5	48.4	0.0	0.0	137.6	0.0	3.5	4.5
NDTX049265-2WRSP/Y	268.5	100.0	63.4	36.6	0.0	0.0	168.6	0.0	3.5	3.7
BTX1749-1W/Y	192.5	97.6	40.9	56.6	0.0	0.0	95.0	0.0	3.5	3.5
ATTX961014-1R/Y	183.0	92.1	50.1	42.0	0.0	0.0	90.8	0.0	4.0	3.5
ATTX99325-1P	84.1	56.0	31.1	22.9	2.0	0.0	28.1	0.0	3.4	3.8
PORTX03PG25-2R/R	194.9	46.0	46.0	0.0	0.0	0.0	149.0	0.0	3.7	4.0
Kenita	256.8	43.3	31.1	12.2	0.0	0.0	93.5	120.0	3.0	1.0
NDTX4756-1R/Y	149.0	42.5	30.1	12.4	0.0	0.0	106.5	0.0	3.8	3.7
COTX04050-1P/P	88.0	27.0	27.0	0.0	0.0	0.0	61.0	0.0	3.5	3.7
COTX03137-2R/R	66.4	0.0	0.0	0.0	0.0	0.0	66.4	0.0	3.5	4.0
PTTX05PG07-1W	58.2	0.0	0.0	0.0	0.0	0.0	58.2	0.0	3.0	3.0
Average	289.5	182.2	77.8	76.6	27.8	0.0	105.1	2.2	3.8	3.7
L.S.D. (.05)	61.9	40.2	27.4	34.6	22.5		40.8	9.5		0.5

[1] 1=very poor to 5= excellent

Dalhart
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 32 entries in the Texas Advanced Specialty Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
TXYG79	78.6	39.5	24.1	14.9	0.0	21.4	0.0	1.058	12.9	Oblong	White
TXYG57	77.3	24.5	24.3	28.6	0.0	22.7	0.0	1.058	12.9	Oblong	White
RZ94-2262	65.5	28.3	35.9	1.3	0.0	28.5	6.0	1.057	12.7	Oblong	White
TXYG55	82.0	25.3	38.6	18.1	0.0	18.0	0.0	1.058	12.9	Oblong	White
Ambra	73.4	26.2	36.9	10.3	0.0	26.2	0.4	1.047	11.0	Oblong	White
TXYG107	81.7	22.9	31.0	27.9	0.0	18.3	0.0	1.058	12.9	Oblong	White
TX1523-1Ru/Y	78.4	14.3	29.1	35.0	0.0	21.6	0.0	1.064	14.0	Oblong	Russet
COTX03079-1W/Y	57.9	32.3	17.9	7.7	0.0	42.1	0.0	1.060	13.2	Oblong	White
TXYG98	64.8	30.8	22.4	11.6	0.0	35.2	0.0	1.058	12.9	Oblong	White
TXYG105	77.7	19.6	32.5	25.6	0.0	22.3	0.0	1.058	12.9	Oblong	White
ATTX98500-2P/Y	43.3	28.8	14.5	0.0	0.0	56.7	0.0	1.055	12.4	Round	Purple
ATTX98500-3P/Y	54.6	28.1	21.6	4.9	0.0	45.4	0.0	1.058	12.9	Oblong	Pinto
Vivaldi	65.7	36.6	28.2	0.9	0.0	31.9	2.4	1.052	11.7	Oblong	White
Yukon Gold	81.2	22.0	46.1	13.2	0.0	17.2	1.6	1.058	12.9	Oblong	White
COTX03039-1R/Y	71.4	26.5	22.9	21.9	0.0	28.6	0.0	1.057	12.7	Oblong	Red
Snowbird	57.9	24.9	32.5	0.5	0.0	38.6	3.4	1.060	13.3	Round	White
BTX1544-2W/Y	70.5	27.6	42.9	0.0	0.0	29.5	0.0	1.053	12.0	Oblong	White
COTX04096-1R/Y	52.9	26.9	26.0	0.0	0.0	47.1	0.0	1.063	13.8	Oblong	Red
TX1674-1W/Y	59.1	21.9	25.7	11.5	0.0	40.9	0.0	1.072	15.3	Oblong	White
COTX03187-1W	48.0	29.2	18.3	0.5	0.0	52.0	0.0	1.088	18.2	Long	White
BIC96606-32	48.5	29.0	19.6	0.0	0.0	47.0	4.4	1.059	13.1	Round	White
ATX02263-1R/Y	43.8	24.3	19.5	0.0	0.0	56.2	0.0	1.065	14.2	Oblong	Red
NDTX049265-2WRSP/Y	36.1	23.8	12.2	0.0	0.0	63.9	0.0	1.064	13.9	Oblong	YellowRSPL
BTX1749-1W/Y	50.7	21.3	29.4	0.0	0.0	49.3	0.0	1.060	13.2	Oblong	White
ATTX961014-1R/Y	49.6	27.5	22.1	0.0	0.0	50.4	0.0	1.047	11.0	Oblong	Red
ATTX99325-1P	67.6	40.3	24.5	2.8	0.0	32.4	0.0	1.044	10.4	Oblong	Purple
PORTX03PG25-2R/R	23.5	23.5	0.0	0.0	0.0	76.5	0.0	1.054	12.1	Long	Red
Kenita	17.3	12.1	5.2	0.0	0.0	36.5	46.2	1.053	11.9	Oblong	White
NDTX4756-1R/Y	28.4	19.3	9.0	0.0	0.0	71.6	0.0	1.047	11.0	Oblong	Red
COTX04050-1P/P	32.0	32.0	0.0	0.0	0.0	68.0	0.0	1.065	14.2	Oblong	Purple
COTX03137-2R/R	0.0	0.0	0.0	0.0	0.0	100.0	0.0	1.075	16.0	Long	Red
PTTX05PG07-1W	0.0	0.0	0.0	0.0	0.0	100.0	0.0	1.063	13.8	Long	White
Average	62.8	26.5	27.0	9.4	0.0	36.4	0.7	1.060	13.2		
L.S.D. (.05)	9.5	8.3	11.6	7.7		9.6	2.7	0.020	0.8		

Dalhart
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 32 entries in the Texas Advanced Specialty Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
TXYG79	7.4	5.1	2.2	88	94	1.6	3.5	1.5	3.0	100
TXYG57	7.8	5.3	1.8	78	86	1.8	3.4	2.7	3.7	50
RZ94-2262	9.8	4.0	1.7	88	93	1.9	4.2	5.0	5.0	0
TXYG55	5.9	5.5	2.1	78	86	1.5	3.6	1.5	3.2	80
Ambra	7.5	4.5	1.7	89	94	1.5	3.5	2.5	3.0	35
TXYG107	6.2	5.6	2.0	66	76	2.0	3.4	1.7	2.5	90
TX1523-1Ru/Y	5.5	5.0	2.1	88	94	1.5	3.8	3.7	4.0	15
COTX03079-1W/Y	11.7	2.9	3.0	90	95	1.5	4.1	1.7	3.0	90
TXYG98	8.2	3.9	2.4	80	90	1.5	3.7	1.5	2.5	100
TXYG105	5.1	5.4	1.5	75	84	1.3	3.0	3.7	3.7	15
ATTX98500-2P/Y	21.8	1.9	2.9	100	100	1.5	4.7	5.0	5.0	0
ATTX98500-3P/Y	12.9	2.8	2.0	84	94	1.5	4.5	4.2	4.7	10
Vivaldi	7.4	3.6	1.5	89	93	1.5	3.4	4.0	3.7	10
Yukon Gold	4.9	4.8	1.3	71	84	1.5	3.4	1.7	3.0	75
COTX03039-1R/Y	6.2	4.1	2.0	71	85	1.8	3.3	2.5	3.2	50
Snowbird	6.9	3.7	1.9	100	100	1.5	4.0	3.0	3.2	50
BTX1544-2W/Y	5.4	3.7	1.7	96	100	2.0	4.0	2.0	3.7	60
COTX04096-1R/Y	11.4	2.9	2.4	73	83	1.5	3.7	5.0	5.0	0
TX1674-1W/Y	7.5	3.4	3.0	84	90	1.8	3.1	4.0	3.7	10
COTX03187-1W	12.7	2.5	4.2	66	78	1.6	3.7	4.7	4.2	5
BIC96606-32	7.5	3.3	1.9	96	98	1.6	4.0	3.5	4.0	25
ATX02263-1R/Y	9.0	2.9	2.7	84	90	1.8	3.3	3.7	4.0	20
NDTX049265-2WRSP/Y	16.2	2.5	3.4	49	61	2.0	3.6	3.7	4.0	10
BTX1749-1W/Y	6.8	3.1	2.8	66	84	2.0	3.1	2.5	3.0	50
ATTX961014-1R/Y	6.3	2.7	2.6	93	100	8.1	4.4	1.7	3.5	90
ATTX99325-1P	3.7	3.1	1.6	50	69	2.1	2.1	1.5	2.0	75
PORTX03PG25-2R/R	14.5	1.5	4.8	73	84	2.0	3.5	3.5	3.7	20
Kenita	6.6	2.9	1.7	84	85	1.5	3.7	5.0	5.0	0
NDTX4756-1R/Y	8.3	2.0	3.7	75	86	2.0	2.6	2.0	2.5	50
COTX04050-1P/P	5.4	1.6	3.0	98	98	2.0	4.2	4.5	4.7	20
COTX03137-2R/R	6.5	1.0	4.6	96	100	2.2	3.6	2.7	3.0	40
PTTX05PG07-1W	12.4	1.0	1.5	28	48	2.0	1.0	4.7	3.2	10
Average	8.7	3.8	2.3	82	89	1.9	3.7	3.1	3.7	42
L.S.D. (.05)	3.3	0.5	0.5	15	12		0.2			

[1] 1= upright, 2= semiprostrate, 3= prostrate
[2] 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous
[3] 1= very early, 2= early, 3= medium, 4=late, 5= very late
[4] 1=very small, 2=small, 3=medium, 4=large, 5=very large

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Table 9d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobbiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 32 entries in the Texas Advanced Specialty Selection Trial grown near Dalhart, Texas-2007.

Variety or Selection	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
TXYG79	3.0	3.2	1.5	4.5	1.0	5.0	5.0	5.0	5.0	5.0	15	0	0	8
TXYG57	3.0	3.2	1.5	4.5	1.0	5.0	5.0	5.0	5.0	5.0	10	0	0	0
RZ94-2262	2.8	3.5	2.5	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	5	10
TXYG55	3.0	3.2	1.5	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	3	5
Ambra	2.8	3.5	1.5	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	3	0	0
TXYG107	3.0	3.5	1.5	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	3
TX1523-1Ru/Y	3.1	3.0	4.0	3.5	4.0	5.0	5.0	5.0	5.0	5.0	0	0	23	0
COTX03079-1W/Y	3.0	3.2	2.0	3.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXYG98	3.0	3.2	1.5	4.5	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TXYG105	3.0	3.5	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98500-2P/Y	3.7	1.5	1.0	4.0	4.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX98500-3P/Y	3.5	3.7	3.0	4.0	3.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Vivaldi	2.5	3.5	1.5	4.0	1.5	5.0	5.0	5.0	5.0	5.0	0	0	3	3
Yukon Gold	3.0	3.5	1.0	4.4	1.0	5.0	5.0	5.0	5.0	5.0	3	0	5	10
COTX03039-1R/Y	3.0	3.2	1.0	3.5	3.5	5.0	5.0	5.0	5.0	5.0	5	0	0	0
Snowbird	1.0	2.9	1.5	3.7	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX1544-2W/Y	3.5	1.7	3.5	3.2	2.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04096-1R/Y	4.0	3.7	1.5	4.0	2.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX1674-1W/Y	3.5	3.7	3.0	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX03187-1W	1.0	4.5	3.5	4.0	3.7	5.0	5.0	5.0	5.0	5.0	0	0	0	33
BIC96606-32	1.0	1.7	2.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	5	0
ATX02263-1R/Y	2.5	3.5	1.0	5.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX049265-2WRSP/Y	3.0	3.7	1.5	4.0	1.7	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BTX1749-1W/Y	3.3	3.5	2.0	3.5	1.2	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX961014-1R/Y	2.7	3.5	1.5	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX99325-1P	1.0	3.7	1.5	5.0	4.5	5.0	5.0	5.0	5.0	3.5	0	0	0	0
PORTX03PG25-2R/R	3.5	4.0	1.2	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Kenita	1.0	3.7	2.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	10	0
NDTX4756-1R/Y	3.5	3.5	1.0	4.0	2.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04050-1P/P	5.0	3.5	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX03137-2R/R	3.1	4.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
PTTX05PG07-1W	1.0	4.5	1.0	4.5	1.5	4.0	5.0	5.0	5.0	5.0	0	0	0	0
Average	2.8	3.4	1.7	4.1	2.4	5.0	5.0	5.0	5.0	5.0	1	0	2	2
L.S.D. (.05)	0.1	0.1	0.1	0.1									7	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 Notes and general rating for all reps of 32 entries in the Texas Advanced Specialty Selection Trial grown near Dalhart, Texas-2007.
Table 9e.

Variety or Selection	Notes Field	Notes Grading	General Rating Field	General Rating Grading
TXYG79	yield+, , ,	, , ,	4, 4, 4, 4	4, 4, 4, 4
TXYG57	nice, , ,	, , ,	4, 4, 4, 4	4, 4, 4, 4
RZ94-2262	nice yellow flesh, buff skin, road map, , ,	pointed, poor shape, buff, road map, yellow flesh, nipple on shoulder, ,	3.5, 3, 3, 3.3	3.5, 3, 3, 3.3
TXYG55	yield?, , ,	10 ZC, , ,	4, 4, 4, 4	4, 4, 4, 4
Ambra	deeper yellow flesh, very nice, BOT, , ,	parent, very smooth, very nice skin, shape, and flesh, BOT	4.5, 4.5, 4, 4.5	4.5, 4.5, 4, 4.5
TXYG107	very nice, , ,	yield-, , ,	4, 4, 4, 4	4, 4, 4, 4
TX1523-1Ru/Y	very nice, heat sprouts, regrowth, BOT, , ,	very nice, BOT, , ,	4, 4, 4, 4	4, 4, 4, 4
COTX03079-1W/Y	pink eye, very nice flesh, TC,BOT+, , ,	round to oblong shape, variable shape, a little rough, very nice	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.5, 3.5
TXYG98	looks smaller, , ,	, , ,	4, 4, 4, 4	4, 4, 4, 4
TXYG105	bad part of field, , ,	, , ,	4, 4, 4, 4	4, 4, 4, 4
ATTX98500-2P/Y	yield, nice yellow flesh, check other data, drop?, , ,	second growth, heavy set, buff, poor skin finish, nice internals, drop?	3, 3, 3, 3	3, 3, 3, 3
ATTX98500-3P/Y	pointed, poor shape, flat, light flesh, check other data, drop?, , ,	rough, poor shape, buff, very nice interior, nice flesh, drop,	3.2, 3.2, 3.2, 3.2	3.2, 3.2, 3.2, 3.2
Vivaldi	nice shape, very nice, BOT-, , ,	very nice yellow flesh, green sprouts, nice flesh, BOT, nice white flesh	4.5, 4.5, 4.5, 4	4.5, 4.5, 4.5, 4
Yukon Gold	green sprout, nice yellow flesh, large tubers, BOT-, , ,	yellow flesh, yield+, nice shape, some rough , ,	, 4, 4, 4	, 4, 4, 4
COTX03039-1R/Y	early, large tubers, oversize, smooth, , ,	lenticels, nice flesh, nice, keep, , ,	3.8, 3.8, 3.8, 3.8	3.8, 3.8, 3.8, 3.8
Snowbird	white flesh, nice round shape, chip, , ,	Parent, indented nose and stem attachment, rough, heat sprouts,	3.7, 4, 3.7, 3.5	3.7, 4, 3.7, 3.5
BTX1544-2W/Y	early, nice flesh, BOT-, , ,	lenticels, nice, poor skin finish, light russet,	4, 4, 4, 4	4, 4, 4, 4
COTX04096-1R/Y	nice size, pale red skin, nice size, pale red skin, ,	smooth, faded red skin, smooth, faded red skin, very nice interior, very nice	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.5, 3.5
TX1674-1W/Y	very nice, BOT-, , ,	long, flat, nice internals, pink eyes,	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.5, 3.5
COTX03187-1W	smooth, can oversize, fingerling, , ,	buff skin, long fingerling, , white flesh, poor internals, drop, better at	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.5, 3.5
BIC96606-32	green sprout, poor light yellow flesh, , , ,	white flesh, rough, nipple on shoulder,	3.3, 3.4, 3, 3.2	3.3, 3.4, 3, 3.2
ATX02263-1R/Y	some pointed, nice flesh, dark red skin, , ,	nice shape, skin, and flesh, egg like shape, BOT, ,	4.5, 4.5, 4.5, 4.5	4.5, 4.5, 4.5, 4.5
NDTX049265-2WRSF	nice flesh, red splash eyes, , ,	red splash eyes, nice, ,	3.7, 3.7, 3.7, 3.7	3.7, 3.7, 3.7, 3.7
BTX1749-1W/Y	nice flesh, bad part of the field, drop?, , ,	, , ,	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.5, 3.5
ATTX961014-1R/Y	nice flesh, very nice, BOT, , ,	road map,, small, nice internals, 30 ZC,	3.5, 3.5, 3.5, 3.5	3.5, 3.5, 3.5, 3.5
ATTX99325-1P	very white flesh, road map, nice shape, low yield, keep?, , ,	nice smooth skin, , feathering, ,	3.8, 3.8, 3.8, 3.8	3.8, 3.8, 3.8, 3.8
PORTX03PG25-2R/R	nice flesh, , ,	nice fingerling, nice flesh, yield+,	4, 4, 4, 4	4, 4, 4, 4
Kenita	light flesh,rough,lenticels, poor skin finish, drop, , ,	, very poor shape, ugly, rough, white flesh, drop	1, 1, 1, 1	1, 1, 1, 1
NDTX4756-1R/Y	nice flesh, smooth, pale skin, , ,	nice round shape, smooth, small, yield-, very nice interior, faded red	3.7, 3.7, 3.7, 3.7	3.7, 3.7, 3.7, 3.7
COTX04050-1P/P	smooth, very dark flesh, , ,	nice shape, very purple flesh, lenticels, silver scurf, keep, ,	3.7, 3.7, 3.7, 3.7	3.7, 3.7, 3.7, 3.7
COTX03137-2R/R	small, nice skin and flesh, fingerling, , ,	sliver scurf, nice, red flesh, fingerling,	4, 4, 4, 4	4, 4, 4, 4
PTTX05PG07-1W	curved, fingerling, , ,	green head, very nice flesh, BOT,	3, 3, 3, 3	3, 3, 3, 3

Addendum to Tables Dalhart 9a, 9b, 9c, 9d, and 9e
Texas Advanced Specialty Selection Trial

Location:
Dalhart, Texas

Soil Type
Dallum Fine Sand Loam

Seed Source
Colorado andTexas

Date:		DAP
Planted	April 24, 2007	
Vines Killed	August 18, 2007	114
Harvested	October 1, 2007	157

Plot Information:

Size of Plots	10'
Spacing Between Hills	12"
Spacing Between Rows	30
Hills Per Plot	10
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Four-row digger, with hand pick up.

Fertilizer:
Application:
150-200-100-3 zn # per acre

Irrigation:
Center Pivot

Insecticide:
Venom

Fungicides Applied:
Tops MZ Gaucho

Herbicides Applied:
Sencor DF, Dual Magnam, Chateux, Prowl, Matrix, Select, Intensity

Environmental Factors:
Precipitation was lower than normal during the last week of April, the first three weeks of May, the first, third, and fourth weeks of June, and the second week of August. Precipitation was higher than normal during the second week of April, the second week of May, the second and forth weeks of June, and the first week of August

Dalhart
Table 10. General rating, tuber type, skin color, notes, and remnant weight for 27 entries to be advanced from the 06 specialty selections grown near Dalhart, Texas-2007.

Variety or Selection	General Rating Field	Tuber Type	Skin Color	Notes	Rem. Wt.
ATTX00289-6Y/Y	3.0	Round	Yellow-Red Eye	07 Mini tubers	
ATTX98500-3PU/Y	3.5	Oblong	Purple-Yellow	07 Mini tubers	
ATX03491-1R/Y	3.0	Oblong	Red	4 rating on yellow flesh, keep	
ATX03496-3Y/Y	3.5	Oblong	Yellow	small smooth, keep	
COTX04056-4P/P Salad	3.5	Round	Red	heavy set, send to Cal/ Small potato Co., keep	
COTX0415-3AW/Y	3.5	Oblong	Yellow	flat, red eye, some buff skin, keep	
COTX04178-1Y/Y	3.7	Oblong	Yellow	small, 4 rating for yelow flesh, keep	
COTX04188-3R/Y	3.4	Oblong	Red	4 rating on yellow flesh, keep	
COTX04193-2R/Y	3.5	Round	Red	BOT, Nice, Heat Sprouts, keep	
COTX04267-1R/Y	3.5	Round	Red	light skin	
COTX04303-1R/Y	3.5	Round	Red	nice, dark red skin	
COTX04303-2R/Y	3.5	Oblong	Red	nice, late, road map, keep	
COTX04303-3R/Y	3.5	Round	Red	late, keep	
NDTX059759-1Pinto/Y	3.5	Oblong	Pinto	nice shape, purple pinto yellow flesh	
NDTX059759-3Pinto/Y	3.8	Oblong	Pinto	flat, red pinto yellow flesh, BOT	
NDTX059761-1W/Y	3.0	Round	Yellow	salad type, small	
NDTX059775-1W/Y	3.7	Oblong	Yellow	nice , heavy set	
NDTX059886-1Y/Y	3.0	Round	Yellow	salad type, small	
NDTX059897-1Y/Y	3.0	Round	Russet	chip, Atlantic like	
NDTX059905-1Y/Y	3.0	Oblong	Yellow	chip	
TX04212-1R/Y	4.0	Oblong	Red	flat, 4 rating for yellow flesh	
TX04237-6Y/Y	3.5	Oblong	Yellow	light flesh, 1 hill, keep	
TX04239-2R/Y	3.5	Round	Red	look at again	
TXYG105	3.5	Oblong	White	rough, knobs+(07 Mini)tubers	
TXYG57	3.5	Oblong	White	rough, knobs(07 Mini tubers)	
TXYG79	3.5	Oblong	White	rough, knobs(07 Mini tubers)	
TXYG98	4.0	Oblong	White	yield+, BOT(07 Mini tubers)	

Dalhart
Table 11a. 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 HZPC Variety Trial grown near Dalhart, Texas-2007.

Variety or Selection	Total Yield Cwt/A	U.S. No. 1 Cwt. Per Acre				Over 18 oz.	Under 4 oz.	Culls/ No.2	General Rating[1] Field	General Rating[1] Grading
		Total Yield	4-6 oz.	6-10 oz.	10-18 oz.					
RZ94-2262	393.6	255.3	111.3	137.9	6.1	0.0	116.1	22.2	3.5	3.2
Ambra	336.6	247.0	87.9	125.3	33.8	0.0	88.6	1.1	4.0	4.4
Vivaldi	272.7	180.8	99.8	79.1	2.0	0.0	84.5	7.4	4.0	4.4
Yukon Gold	216.5	176.0	44.6	99.3	32.0	0.0	37.0	3.5	4.0	4.0
Snowbird	289.2	168.6	70.8	96.0	1.7	0.0	110.9	9.8	3.7	3.7
BIC96606-32	267.9	125.9	74.1	51.8	0.0	0.0	129.8	12.2	3.7	3.2
Kenita	256.8	43.3	31.1	12.2	0.0	0.0	93.5	120.0	3.0	1.0
Average	290.5	171.0	74.2	86.0	10.8	0.0	94.3	25.2	3.7	3.4
L.S.D. (.05)	68.5	43.7	27.2	44.1	ns		46.2	22.5		0.2

[1] 1=very poor to 5= excellent

Dalhart
Table 11b. Percent by weight of U.S. No. 1, under 4 ounce and culls/No.2 potatoes, specific gravity, tuber type and skin type of 7 entries in the HZPC Variety Trial grown near Dalhart, Texas-2007.

Variety or Selection	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
	Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
RZ94-2262	65.5	28.3	35.9	1.3	0.0	28.5	6.0	1.057	12.7	Oblong	White
Ambra	73.4	26.2	36.9	10.3	0.0	26.2	0.4	1.047	11.0	Oblong	White
Vivaldi	65.7	36.6	28.2	0.9	0.0	31.9	2.4	1.052	11.7	Oblong	White
Yukon Gold	81.2	22.0	46.1	13.2	0.0	17.2	1.6	1.058	12.9	Oblong	White
Snowbird	57.9	24.9	32.5	0.5	0.0	38.6	3.4	1.060	13.3	Round	White
BIC96606-32	48.5	29.0	19.6	0.0	0.0	47.0	4.4	1.059	13.1	Round	White
Kenita	17.3	12.1	5.2	0.0	0.0	36.5	46.2	1.053	11.9	Oblong	White
Average	58.5	25.6	29.2	3.7	0.0	32.3	9.2	1.055	12.4		
L.S.D. (.05)	10.3	9.9	14.1	9.7		10.8	6.4	0.007	1.2		

Dalhart
Table 11c. Average number of tubers per plant, average tuber weight, average number of stems per plant, percent stand 40 days after planting, percent stand 60 days after planting, plant characteristics and percent dead vines at vine kill of 7 entries in the HZPC Variety Trial grown near Dalhart, Texas-2007.

Variety or Selection	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Average Number Stems/ Plant	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines
						Plant Type [1]	Vigor [2]	Maturity [3]	Vine Size [4]	
RZ94-2262	9.8	4.0	1.7	88	93	1.9	4.2	5.0	5.0	0
Ambra	7.5	4.5	1.7	89	94	1.5	3.5	2.5	3.0	35
Vivaldi	7.4	3.6	1.5	89	93	1.5	3.4	4.0	3.7	10
Yukon Gold	4.9	4.8	1.3	71	84	1.5	3.4	1.7	3.0	75
Snowbird	6.9	3.7	1.9	100	100	1.5	4.0	3.0	3.2	50
BIC96606-32	7.5	3.3	1.9	96	98	1.6	4.0	3.5	4.0	25
Kenita	6.6	2.9	1.7	84	85	1.5	3.7	5.0	5.0	0
Average	7.2	3.8	1.7	88	92	1.6	3.7	3.5	3.8	28
L.S.D. (.05)	2.6	0.6	0.2	16	ns	0.1	0.2			

[1] 1= upright, 2= semiprostrate, 3= prostrate
[2] 1= poor, 2= fair, 3= medium, 4= vigorous, 5= very vigorous
[3] 1= very early, 2= early, 3= medium, 4=late, 5= very late
[4] 1=very small, 2=small, 3=medium, 4=large, 5=very large

Dalhart
Table 11d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobbiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 7 entries in the HZPC Variety Trial grown near Dalhart, Texas-2007.

Variety or Selection	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
RZ94-2262	2.8	3.5	2.5	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	5	10
Ambra	2.8	3.5	1.5	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	3	0	0
Vivaldi	2.5	3.5	1.5	4.0	1.5	5.0	5.0	5.0	5.0	5.0	0	0	3	3
Yukon Gold	3.0	3.5	1.0	4.4	1.0	5.0	5.0	5.0	5.0	5.0	3	0	5	10
Snowbird	1.0	2.9	1.5	3.7	1.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
BIC96606-32	1.0	1.7	2.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	3	0	5	0
Kenita	1.0	3.7	2.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	0	0	10	0
Average	2.0	3.2	1.7	4.0	1.1	5.0	5.0	5.0	5.0	5.0	1	0	4	3
L.S.D. (.05)	0.3	0.1	0.2	0.1										6

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

Dalhart Notes and general rating for all reps of 7 entries in the HZPC Variety Trial grown near Dalhart, Texas-2007.
Table 11e.

Variety or Selection	Notes Field	Notes Grading	General Rating Grading	General Rating Grading
RZ94-2262	nice yellow flesh, buff skin, road map, , ,	pointed, poor shape, buff, road map, yellow flesh, nipple on shoulder, ,	3.5, 3, 3, 3.3	3.5, 3.5, 3.5, 3.5
Ambra	deeper yellow flesh, very nice, BOT, , ,	parent, very smooth, very nice skin, shape, and flesh, BOT	4.5, 4.5, 4, 4.5	4, 4, 4, 4
Vivaldi	nice shape, very nice, BOT-, , ,	very nice yellow flesh, green sprouts, nice flesh, BOT, nice white flesh	4.5, 4.5, 4.5, 4	4, 4, 4, 4
Yukon Gold	green sprout, nice yellow flesh, large tubers, BOT-, , ,	yellow flesh, yield+, nice shape, some rough , ,	4, 4, 4, 4	4, 4, 4, 4
Snowbird	white flesh, nice round shape, chip, , ,	Parent, indented nose and stem attachment, rough, heat sprouts, smooth skin, very	3.7, 4, 3.7, 3.5	3.7, 3.7, 3.7, 3.7
BIC96606-32	green sprout, poor light yellow flesh, , , ,	white flesh, rough, nipple on shoulder,	3.3, 3.4, 3, 3.2	3.7, 3.7, 3.7, 3.7
Kenita	light flesh,rough,lenticels, poor skin finish, drop, , ,	, very poor shape, ugly, rough, white flesh, drop	1, 1, 1, 1	3, 3, 3, 3

Dalhart
Table 11f.

Specific gravity, percent solids, chip color rating, chip defects of 7 entries in the HZPC Variety Trial grown near Dalhart, Texas-2007.

Variety or Selection	Location	Gravity	% Solids	Chip Color[1]	Chip Defects[2]	Good/Bad Chip Ratio	Good Chip Wt (g)(%)	Bad Chip Wt (g)(%)
RZ94-2262	Dalhart	1.059	13	2	98% Vas, 3% Z	0/40	0 (0%)	56.4 (100%)
Ambra	Dalhart	1.052	12	1+	60% Su, 30% Vas	1/39	1.8 (3%)	51.9 (97%)
Vivaldi	Dalhart	1.058	13	3	78% Vas, 23% Z	0/40	0 (0%)	54.6 (100%)
Yukon Gold	Dalhart	1.053	12	2+	30% Su, 25% Vas, 23% Z	9/31	16.2 (24%)	50.9 (76%)
Snowbird	Dalhart	1.060	13	1+	19% Su, 35% Vas	17/20	30.2 (46%)	35.1 (54%)
BIC96606-32	Dalhart	1.047	11	3+++	20% Vas, 80% Z	0/40	0 (0%)	64.5(100%)
Kenita	Dalhart	1.057	13	1+	33% Vas, 75% Z	0/40	0 (0%)	41.9 (100%)

One .05" slice per tuber, 10 tubers per rep, four reps, 1 min 25 sec, 365^{o}F corn oil.

[1] 1=Light, 3+=Very Dark

[2]Vas=vascular heat necrosis, Dark=high sugars,Z=zebra

Addendum to Tables Dalhart 11a, 11b, 11c, 11d, 11e, and 11f
HZPC Variety Trial

Location:
Dalhart, Texas

Soil Type
Dallum Fine Sand Loam

Seed Source
Colorado andTexas

Date:		DAP
Planted	April 24, 2007	
Vines Killed	August 18, 2007	114
Harvested	October 1, 2007	157

Plot Information:

Size of Plots	10'
Spacing Between Hills	12"
Spacing Between Rows	30
Hills Per Plot	10
Number of Plot Per Rep	2
Number of Reps	4

Method of Harvest:
Four-row digger, with hand pick up.

Fertilizer:
Application:
150-200-100-3 zn # per acre

Irrigation:
Center Pivot

Insecticide:
Venom

Fungicides Applied:
Tops MZ Gaucho

Herbicides Applied:
Sencor DF, Dual Magnam, Chateux, Prowl, Matrix, Select, Intensity

Environmental Factors:
Precipitation was lower than normal during the last week of April, the first three weeks of May, the first, third, and fourth weeks of June, and the second week of August. Precipitation was higher than normal during the second week of April, the second week of May, the second and forth weeks of June, and the first week of August

Appendix A. General notes on potato varieties or selections – 2007.

A95409-1 - Long Russet. Parentage (A89146-8 x Ranger Russet). Cross was made and selected in Aberdeen. Medium-late maturity. Large vine size. Red-purple flower color.

Uses: Dual.
Strengths: Large tubers.
Weaknesses: Rough, light russet, pointed.

A96104-2 - Long Russet. Parentage (A88236-4 x A89512-3). Cross was made and selected in Aberdeen. Medium-late maturity. Medium vine size. Red-purple flower color**.**

Uses: Dual.
Strengths: Nice shape.
Weaknesses: Pointed pear shaped, small.

A96510-4Y - Oblong Light Russet. Parentage (PA92A17-6 x A91194-4). Cross was made and selected in Aberdeen. Medium maturity. Medium-large vine size. Red-purple flower color

Uses: Dual.
Strengths: Large tubers.
Weaknesses: Flesh not very yellow, rough, pear shaped, poor shaped, pointed to stem end.

A97287-6 - Oblong Light Russet. Parentage (PA92A17-6 x A91194-4). Cross was made and selected in Aberdeen. Medium maturity. Medium vine size. White flower color

Uses: Dual.
Strengths: Large tubers, blocky.
Weaknesses: Skinny, lenticels, poor shape+, pointed, rough.

AC96052-1RU - Oblong Russet. Parentage (A81386-1 x A9014-2). Cross was made in Aberdeen and selected in Colorado. Medium maturity. Large vines. Purple flower color.

Uses: Dual.
Strengths: Nice, shape.
Weaknesses: Small, did not size drop.

AC97097-14W - Oblong White. Parentage (Brodick x A91746-8). Cross was made in Aberdeen and selected in Colorado. Medium maturity. Medium size vines. Purple flower color.

Uses: Chip.
Strengths: Very large tubers.
Weaknesses: 10% % ZC, some rot, lenticels, poor skin late.

AC97521-1R/Y - Oblong Red/Yellow. Parentage (SJP/T48YF x A91846-5R). Cross was made in Aberdeen, and selected in Colorado. Medium maturity. Large vine. Red-purple flower color.

Uses: Specialty.
Strengths: Nice shape, dark yellow flesh, nice flesh.
Weaknesses: Poor shape, pointed to stem end.

AC99213-8W - Round White. Parentage (A900467-14 x NDA5698-8). Cross was made in Aberdeen, and selected in Colorado. Medium maturity. Large vine. White flower color.

Uses: Chip.
Strengths:
Weaknesses: Very late, small, very small, lenticels, buff.

AC99329-7RW/Y – Round Purple-White. Parentage (Inca Gold x A91846-5R). Cross was made in Aberdeen, and selected in Colorado. Medium maturity. Large-very large vine. Purple flower color.

Uses: Specialty
Strengths: Pinto,
Weaknesses: Deep eyes, rough, heat sprouts.

AC99330-1P/Y-Round Purple. Parentage ((Inca Gold xA89655-5DY). Cross was made in Aberdeen, and selected in Colorado. Early maturity. Large vine. Blue flower color.

Uses: Specialty.
Strengths:
Weaknesses: Lenticels++, rough, small tubers, ugly.

All Blue - Oblong Purple. Parentage (Unknown). Medium-late maturity. Medium- large vine size. Blue flower color.

Uses: Specialty.
Strengths:
Weaknesses: Rough shape, small tubers, road map, stem attachments, center pith and cortex is white, purple flesh color more intense at eyes, poor shaped, road map, buff very late, heat sprouts, second growth, chain tubers, rough, pointed, dog, drop.

Ambra- Oblong White Parentage (Duke of York x Reneta Lub B 53). Variety from the HZPC Corporation

Uses: Specialty.
Strengths: Deeper yellow flesh, very nice, parent, very smooth, very nice skin, shape, and flesh, BOT++,
Weaknesses:

AO96141-3 - Long Russet. Parentage (A89222-3 x COA90064-6).Cross was made and selected in Aberdeen. Medium maturity. Medium-large vines. White flower color.

Uses: Dual.
Strengths:
Weaknesses: Small, drop, 40% % ZC, rough.

AO96164-1 - Long Russet. Parentage (A89384-10 x A91194-4). Cross was made in Aberdeen and selected in Oregon. Medium maturity. Medium vine size. White flower color.

Uses: Dual.
Strengths:
Weaknesses: Eye brows, 10% % ZC, 20% tuber moth drop.

AOA95154-1 - Long Russet. Parentage (Bannock x A89152-4). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Aberdeen. Medium-early maturity. Medium-large vine size. Medium-purple flower color.

Uses: Dual.
Strengths: Nice, nice white flesh, blocky.
Weaknesses: Rhizoctonia.

AOA95155-7 - Long Russet. Parentage (Bannock x A89163-3LS). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Aberdeen. Medium-late maturity. Small vine size. Red-purple flower color.

Uses: Dual.

Strengths: Blocky.BOT, nice shape.

Weaknesses: some raised eyes small.

AOTX02060-1Ru - Oblong Russet. Parentage (A97201-4 x A93157-6LS). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths Nice flesh, blocky yield, large tubers, nice shape and skin BOT:

Weaknesses: Rough, 40% ZC.

AOTX02066-1Ru - Oblong Russet. Parentage (A97218-1 x A97201-4). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths: Keep?

Weaknesses: Eye brows, too blocky, poor skin, rough poor shape, pointed, dumb bell, small, drop+.

AOTX02136-1Ru - Oblong Russet. Parentage (A96563-8 x A92030-5). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths: Blocky, nice shape.

Weaknesses: Close set, rough, drop.

AOTX03096-1Ru - Oblong Russet. Parentage (A97198-15 x A92030-5). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths: Nice shape and skin Blocky, large tubers.

Weaknesses: Some raised eyes rough 20% % ZC, light russet skin drop.

AOTX03134-1Ru - Oblong Russet. Parentage (A98082-17 x AC93026-9RU). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths: Blocky, large tubers.

Weaknesses: Close set, rough, skinny, blocky, pointed, 40 ZC rot+, 10 % ZC, skinny, rough, pointed+, light russet skin drop++++.

AOTX91861-4R-Oblong Red. Parentage (Red LaSoda X ND2224-5R). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths: Nice, heavy set, keep, To CAL (07 Mini tubers).

Weaknesses:

AOTX93483-1R-Oblong Red. Parentage (NDO2686-6R X AD82705-1R). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths: Nice yield, keep (07 Mini tubers).

Weaknesses: Stem attachment, feathering**.**

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

Uses: Fresh.

Strengths: Nice shape.

Weaknesses: Low yield, small, 10% ZC, some rot.

AOTX95265-2ARu - Long Russet. Parentage (A89216-9 X A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.

Strengths: Nice shape, nice.

Weaknesses: Pointed, rough, curved, poor shape, poor internals, 40% ZC, 30% ZC, 20% ZC.

AOTX95265-3Ru - Long Russet. Parentage (A89216-9 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium maturity. Medium vine size.

Uses: Fresh.

Strengths: Nice shape, very nice large tubers+, nice flesh, BOT.

Weaknesses: Rough, some curved, 10% ZC, rough, tuber moth, 10% ZC

AOTX95265-4Ru - Long Russet. Parentage (A89216-9 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium-late maturity. Medium-large vine size. White flower color.

Uses: Fresh.

Strengths: Nice shape, large tubers very large tubers, very nice skin and shape, blocky, BOT+.

Weaknesses: Skinny curved, rough, ugly skin set 10% ZC.

AOTX95269-1Ru - Long Russet. Parentage (A89296-3 x A89804-7). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium-maturity. Large vine size.

Uses: Fresh.

Strengths: Nice shape blocky.

Weaknesses: Small, feathering, rough, close set 20 ZC.

AOTX95295-1Ru - Long Russet. Parentage (A89804-7 x Ranger Russet). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium-early maturity. Large vine size.

Uses: Fresh.

Strengths: Nice shape, blocky very nice+, nice, TC.

Weaknesses: Small 10 ZC.

AOTX95295-3Ru - Long Russet. Parentage (A89804-7 x Ranger Russet). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Early maturity. Medium vine size.

Uses: Fresh.

Strengths: Nice shape, heavy set, nice shape and

Weaknesses: Small, very small, yield-.

AOTX95309-1W - Oblong White. Parentage (A9055-8LS x A89163-3LS). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium maturity. Large vine size.

Uses: Chip.

Strengths: Big tuber, oblong, BOT+.

Weaknesses:

AOTX95309-3W - Oblong White. Parentage (A9055-8LS x A89163-3LS). Cross was made in Aberdeen, produced in Oregon, and selected in Texas. Late maturity. Large vine size.

Uses: Chip.
Strengths: More round, BOT, nice shape.
Weaknesses: Small tubers.

AOTX96075-1Ru - Long Russet. Parentage (A84118-3 x A89384-10). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium-early maturity. Large vine size.

Uses: Fresh.
Strengths: Blocky.
Weaknesses: Poor shape, small, pointed, small, close set rot, small, some pointed.

AOTX96084-1Ru Oblong Russet. Parentage (A8792-1 X A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas...

Uses: Fresh.
Strengths: Nice shape, nice flesh, blocky.
Weaknesses: Small, curved, rough, close set.

AOTX96208-1Ru - Long Russet. Parentage (A9057-7 x A91194-3). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Early maturity. Large vine size.

Uses: Fresh.
Strengths: Nice.
Weaknesses: Rough, small, 10 ZC rough, drop+.

AOTX96216-2Ru - Long Russet. Parentage (A89216-9 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium-early maturity. Large vine size.

Uses: Fresh.
Strengths: Blocky, very nice.
Weaknesses: Crooked, rough small+.

AOTX96265-2Ru - Oblong Russet. Parentage (A90621-4 X A84180-8). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.
Strengths: BOT, blocky, yield+, large tubers, very nice, shape.
Weaknesses: Rhizoctonia, Drop.

AOTX98096-1Ru - Oblong Russet. Parentage (Shepody x A92158-3). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium-early maturity. Large vine size.

Uses: Fresh.
Strengths: BOT, very nice shape and skin++ blocky.
Weaknesses: Rough.

AOTX98137-1Ru - Oblong Russet. Parentage (A8670-7 x A9310-1). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Early maturity. Medium-large vine size.

Uses: Fresh.
Strengths: Very nice+, BOT++.
Weaknesses: Poor shape, pointed, skinny, rough.

AOTX99008-1Ru - Oblong Russet. Parentage (A8670-7 x A9308-2). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.
Strengths: Nice flesh, keep.
Weaknesses: Rough.

AOTX99194-1Ru - Oblong Russet. Parentage (A94137-1 x GemStar Russet). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: Fresh.
Strengths: Keep
Weaknesses:

Atlantic - Round White. Parentage (Wauseon x B5141-6). Cross was-made in Beltsville, Maryland, and selected in Maine. Released in 1976 by USDA-ARS, Florida, Virginia, New Jersey and Maine Agricultural Experiment Stations. Medium maturity. Medium vine size. Pale lavender flower color.

Uses: Chip.
Strengths: High yield, high specific gravity, low sugar buildup in storage, chips well directly from field short term storage at 50o, uniform tuber size and shape, tolerant to scab and Verticillium wilt, resistant to pink eye and highly resistant to race A of golden nematode, PVX and tuber net necrosis.
Weaknesses: Very susceptible to internal heat necrosis, particularly in sandy soils in warm, dry seasons, susceptible to hollow heart, shatter bruise, Rhizoctonia and storage rots, buff skin10 % % ZC.

ATTX00289-4W - Oblong Russet. Parentage (NDA5507-3 X TXA1655-1DY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Fresh.
Strengths: Keep
Weaknesses:

ATTX00289-6Y/Y - Round Yellow. Parentage (NDA5507-3 X TXA1655-1DY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Fresh.
Strengths: Red Eye, 07 Mini tubers
Weaknesses:

ATTX95490-2W - Oblong White. Parentage (Red LaSoda X A89655-5DY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Chip.
Strengths: large tubers, high yield BOT
Weaknesses: very early, heat sprouts, poor shape, poor flesh, 10ZC, drop,

ATTX961014-1AR/Y - Oblong Red/Yellow. Parentage (A90601-2RDY X MAZAMA). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Early maturity. Medium vine size. Purple flower color.

Uses: Specialty.
Strengths: Keep, nice flesh.
Weaknesses:

ATTX961014-1R/Y - Oblong Red/Yellow. Parentage (A90601-2RDY X MAZAMA). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Early maturity. Medium vine size. Purple flower color.

Uses: Specialty.
Strengths: Nice flesh, very nice, BOT nice internals smooth skin oval shape, good skin set, BOT.
Weaknesses: Road map, nose, variable shape.

ATTX98444-16R/Y - Oblong Red Parentage (A83360-9R X T48YF). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Specialty.
Strengths: Ok, nice, keep, BOT, Check TC.
Weaknesses:

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.

Uses: Fresh.
Strengths: Nice flesh, keep, To WRD, BOT, good skin color very white flesh.
Weaknesses: Rhizoctonia, pale red skin, 20% ZC, 20% Green head.

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

Uses: Specialty.
Strengths: Smooth, keep nice flesh.
Weaknesses: Drop?, weird tuber shape.

ATTX98466-5R/W-R - Round White. Parentage (ND2051-1Ru x A7961-1). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Chip.
Strengths: Red streak in vascular.
Weaknesses: Small green spot, very small, did not size.

ATTX98468-5R/Y - Oblong Red. Parentage (ATD252-5R X A93457-4R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Specialty.
Strengths: Check TC, BOT.
Weaknesses: Depression at stem end.

ATTX98491-4YRsplash/Y - Oblong Red/Splash. Parentage (P94A2-3Y X A92657-1R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Specialty
Strengths: Red splash, keep, boiler.
Weaknesses: Low yield.

ATTX98500-2P/Y - Oblong-Purple/Yellow. Parentage (P94A2-4Y X Granola). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Late maturity. Large vine size. Purple flower color

Uses: Specialty.
Strengths: Yield, nice yellow flesh, heavy set.
Weaknesses: Check other data, second growth, buff, poor skin finish, stem attachment, late+, drop++.

ATTX98500-3P/Y - Oblong-Pinto/Yellow. Parentage (P94A2-4Y X Granola). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Late maturity. Large vine size. Purple flower color

Uses: Specialty.

Strengths: Very nice interior, nice flesh.

Weaknesses: Pointed, poor shape, flat, light flesh, check other data, rough, buff, drop++.

ATTX99325-1P – Oblong Purple. Parentage (AGRIA X W1100R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Specialty.

Strengths: Smother, nice, keep+, very white flesh nice shape.

Weaknesses: Poor skin set road map, low yield, feathering.

ATX00270-2R- Red Round Red. Parentage (CO89097-2 x ND5256-7R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: Fresh.

Strengths: Nice flesh, good skin set.

Weaknesses: Small, not as white flesh, poor internals, rot, 20% Green head, low yield, poor skin finish, small, road map+, poor skin, drop.

ATX02014-1Ru - Oblong Russet. Parentage (A91186-2 x Ranger Russet). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.

Strengths: Blocky.

Weaknesses: Small, drop, rough, small, ugly, poor shape, raised eyes.

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

Uses: Fresh.

Strengths: Nice flesh, dark red skin, nice shape, skin, and flesh, egg like shape, BOT.

Weaknesses: Some pointed.

ATX03003-1Ru - Oblong Russet. Parentage (Western Russet x A98079-1). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.

Strengths: Blocky, BOT.

Weaknesses: Rough .

ATX03003-1Ru - Oblong Russet. Parentage (Western Russet x A98079-1). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.

Strengths: Blocky, light russet skin, keep.

Weaknesses:

ATX03068-1Ru - Oblong Russet. Parentage (A95109-1 x Silverton Russet). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.

Strengths: Blocky, light russet skin, keep.

Weaknesses:

ATX03077-2Ru - Oblong Russet. Parentage (A96095-3 x A92030-5). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.
Strengths: Large tubers, BOT.
Weaknesses:

ATX03407-2Ru – Round Russet. Parentage (Stampede Russet x Alturas Cross was made in Colorado and selected in Texas

Uses: Specialty.
Strengths: Uniform size
Weaknesses:

ATX03409-1W/Y - Oblong White. Parentage (Summit Russet x A96013-2). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.
Strengths:
Weaknesses: Variable size, rough.

ATX03409-2W/Y - Oblong White. Parentage (Summit Russet x A96013-2). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.
Strengths:
Weaknesses: Rough.

ATX03409-3W/Y - Oblong White. Parentage (Summit Russet x A96013-2). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.
Strengths:
Weaknesses: Some small, buff skin.

ATX03409-6W/Y - Oblong White. Parentage (Summit Russet x A96013-2). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.
Strengths:
Weaknesses:

ATX03409-7W/Y - Oblong White. Parentage (Summit Russet x A96013-2). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.
Strengths:
Weaknesses: Buff skin.

ATX03424-1Ru - Oblong Russet. Parentage (Wallowa Russet x A98292-2). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.
Strengths: Nice shape, keep.
Weaknesses: Small**.**

ATX03491-1R/Y - Oblong Red. Parentage (A97521-3R x AO93487-2R). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.
Strengths: 4 rating on yellow flesh, keep.
Weaknesses:

ATX03496-3Y/Y - Oblong Yellow. Parentage (NDTX4271-5R x AO93487-2R). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.
Strengths: Smooth, keep.
Weaknesses: Small.

ATX84378-6Ru - Oblong-long Russet. Parentage (A79141-9 x ND329-1). Cross was made in Aberdeen, and selected in Texas.

Uses: Fresh.
Strengths: Very large tubers, blocky large tubers, blocky.
Weaknesses**:** Rough, growth cracks, light set, large tubers, rough, raised eyes.

ATX85404-8W - Round White. Parentage (Gemchip x ND860-2). Cross was made in Aberdeen and selected in Texas. Medium-late maturity. Medium-large vine size. White flower color.

Uses: Chip.
Strengths: High yield, good appearance, tubers of uniform size, low sugar accumulation in storage, some scab resistance, excellent color, low glycoalkaloids, can be chipped directly out of storage, smooth skin, nice internal. BOT+++.
Weaknesses: Can develop some hollow heart and is somewhat susceptible to shatter bruise, slight russet patching, susceptible to Rhizoctonia, short tuber dormancy, oversize, heat necrosis.

ATX91137-1Ru - Oblong Russet. Parentage (A81473-2 x A8343-12) Cross was made in Aberdeen, and selected in Texas.

Uses: Fresh.
Strengths: Nice shape, blocky smooth, very nice, BOT.
Weaknesses: 30% ZC, 20% ZC.

ATX9132-2W/Y - Round White/Yellow. Parentage (??). Cross was made in Aberdeen and selected in Texas.

Uses:
Strengths:
Weaknesses: Drop.

ATX9332-12Ru –Oblong Russet. Parentage (A8850-1 x A88288-1). Cross was made in Aberdeen and selected in Texas.

Uses:
Strengths: Blocky.
Weaknesses: Drop, rough, knobs, raised eyes.

ATX97147-4Ru - Long Russet. Parentage (A79180-10 x A88236-6). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.
Strengths: Nice flesh.

Weaknesses: Ugly, 10% ZC, poor skin, poor shape, pointed, DROP.

ATX97232-1Ru - Oblong Russet. Parentage (A79180-10 x A88236-6). Cross was made in Aberdeen and selected in Texas. Early-medium maturity. Medium vine size.

Uses: Fresh.

Strengths:

Weaknesses: Close set, hollow heart++, rough, Rhizoctonia, feathering, shape, large tubers, pointed, blocky, DROP.

ATX99194-3Ru - Oblong Russet. Parentage (A94137-1 x GemStar Russet). Cross was made in Aberdeen and selected in Texas.

Uses: Fresh.

Strengths: Light russet skin, keep (07 Mini tubers.

Weaknesses:

BIC96606-32 - Round White. Parentage ().Variety from the HZPC Corporation Uses: Fresh.

Uses: Fresh.

Strengths:

Weaknesses: Green sprout, poor light yellow flesh, white flesh, rough, nipple on shoulder.

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

Uses: Specialty.

Strengths: Early, nice flesh, BOT.

Weaknesses: Lenticels poor skin finish, light russet, Rhizoctonia.

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

Uses: Specialty.

Strengths: Nice flesh yield.

Weaknesses: Drop?.

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

Uses: Fresh.

Strengths: Keep+, smooth, oval, TC, nice flesh.

Weaknesses: Lenticels, small.

Chipeta - Oblong White. Parentage (WNC612-13 x Wischip). Cross was made in Aberdeen and selected in Colorado. Released by USDA-ARS, Aberdeen, and Colorado Agricultural Experiment Stations. Late maturity. Large vine size. Red-Reddish purple corollas and large yellow anthers.

Uses: Chip and French fries.

Strengths: High yield potential, high specific gravity and low sugar accumulation in storage, will occasionally chip out of 40o storage, resistant to most internal and external defects including second growth, growth cracks, hollow heart, heat necrosis and blackspot bruises. Also resistant to leaf roll-induced net necrosis, Verticillium wilt, and both foliar and tuber phases of early blight BOT-++.

Weaknesses: Irregular shape, may oversize, buff skin, variable tuber size, skin feathering, some russet patches, green heads, susceptible to Rhizoctonia, common scab, and Fusarium dry rot, late maturity, deep eyes, 20% % ZC.

CO95172-3RU - Oblong Russet. Parentage (Russet Nugget x AC88165-3). Cross was made and selected in Colorado. Medium maturity. Large vine size. Red-purple flower color.

Uses: Fresh.
Strengths: Yield+.
Weaknesses: Rough, some pointed.

CO96141-4W - Round White. Parentage (BC0894-2 x AC87340-2). Cross was made and selected in Colorado. Medium-early maturity. Medium-small vine size. White flower color

Uses: Chip.
Strengths: Nice, early, very nice.
Weaknesses:

CO97043-14W - Round White. Parentage (AC91817-5 x AC87340-2). Cross was made in and selected in Colorado. Medium maturity. Medium vine size. White flower color.

Uses: Chip.
Strengths: Nice, early.
Weaknesses: Small.

CO97065-7W - Round White. Parentage (AC92513-3 x Chipeta). Cross was made in and selected in Colorado. Medium maturity. Medium vine size. Red-purple flower color.

Uses: Chip.
Strengths: Nice shape.
Weaknesses: Low yield, many small tubers, 20% ZC.

CO97087-2RU - Oblong Russet. Parentage (CO87009-4 x W1005). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White flower color.

Uses: Fresh.
Strengths:
Weaknesses: Small, skinny, pointed, drop, poor shape.

CO97138-3RU - Oblong Russet. Parentage (NDO2904-7 x CO90052-1). Cross was made and selected in Colorado. Medium maturity. Medium-large vine size. White flower color.

Uses: Fresh.
Strengths: Blocky, nice shape.
Weaknesses: Pointed.

CO97138-7RU - Oblong Russet. Parentage (NDO2904-7 x CO90052-1). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White flower color

Uses: Fresh.
Strengths:
Weaknesses: Light russet, flat, pointed, blocky.

CO97215-2P/P - Oblong Purple/Purple. Parentage (CO94163-1 x CO94183-1). Cross was made in Colorado and selected in Colorado.

Uses: Specialty.
Strengths:
Weaknesses: Small, stem indentations, variable flesh color.

CO97222-1R/R - Oblong Red/Red. Parentage (CO94170-1 x CO94183-1). Cross was made in and selected in Colorado.

Uses: Specialty.
Strengths:
Weaknesses: Rough, poor internals, road map, poor skin finish.

CO97226-2R/R - Round Red/Red. Parentage (CO94183-1 x CO94214-1). Cross was made in and selected in Colorado. Early maturity. Medium-large vine size. White flower color.

Uses: Specialty.
Strengths:
Weaknesses: Drop, small, road map+, poor skin+.

CO97227-2P/PW - Oblong Purple/Purple. Parentage (CO94183-1 x CO94215-1). Cross was made in Colorado and selected in Colorado.

Uses: Specialty.
Strengths: Parent, very dark flesh.
Weaknesses: Small pointed, rough, poor shape.

CO97232-1R/Y - Oblong-Red/Yellow. Parentage (CO94218-1 x VC0967-2). Cross was made and selected in Colorado. Medium- early maturity. Medium vine size. Purple flower color.

Uses: Specialty.
Strengths:
Weaknesses: Small, Rhizoctonia, some pointed.

CO97232-2R/Y - Round-Red/Yellow. Parentage (CO94218-1 x VC0967-2). Cross was made and selected in Colorado. Medium maturity. Medium vine size. Red-purple flower color.

Uses: Specialty.
Strengths:
Weaknesses: Rhizoctonia, poor skin, drop, poor internals, poor skin finish, silver scurf, faded. Color.

CO97233-3R/Y - Oblong-Red/Yellow. Parentage (CO94218-1 x VC0967-5). Cross was made and selected in Colorado. Medium-late maturity. Medium vine size. Red-purple flower color.

Uses: Specialty.
Strengths:
Weaknesses: Pointed top stem end, road map, buff, pair shaped, drop+.

CO98012-5R -Oblong Light Russet. Parentage (PA92A17-6 x A91194-4). Cross was made and selected in Aberdeen. Medium maturity. Medium-large vine size.

Uses: Fresh.
Strengths: Nice skin, shape and flesh, BOT, nice white flesh, heavy set.
Weaknesses: Small.

CO98067-7RU - Long Russet. Parentage (Silverton Russet x TC1675-1). Cross was made and selected in Colorado. Early-medium maturity. Medium vine size. White flower color

Uses: Dual.
Strengths: Blocky, nice shape.
Weaknesses: Rough, drop (shape)

CO98368-2RU - Oblong Russet. Parentage (Russet Nugget x Bannock Russet). Cross was made and selected in Colorado. Early-medium maturity. Medium vine size. Purple flower color.

Uses: Fresh.
Strengths: Nice internals.
Weaknesses: Feathering, pointed, curved slender, pointed, DROP.

CO99045-1W/Y -Long White/Yellow. Parentage (Rio Grande Russet x German Butterball). Cross was made and selected in Colorado. Medium maturity. Large vine size. White flower color.

Uses: Specialty.
Strengths: Nice, BOT of Col entries.
Weaknesses: Rough, light fine russet skin, some pointed.

CO99076-6R Oblong Light Russet. Parentage (PA92A17-6 x A91194-4). Cross was made and selected in Aberdeen. Medium maturity. Medium-large vine size.

Uses: Fresh.
Strengths:
Weaknesses:

CO99256-2R -Oblong Light Russet. Parentage (PA92A17-6 x A91194-4). Cross was made and selected in Aberdeen. Medium maturity. Medium-large vine size.

Uses: Fresh.
Strengths: Nice flesh.
Weaknesses: Poor shape, small, Rhizoctonia, lenticels, drop.

CO99256-3R –Oval Red. Parentage (Rio Colorado x Colorado Rose). Cross was made and selected in Colorado. Early maturity. Medium vine size. Purple flower color.

Uses: Fresh
Strengths: LaSoda like.
Weaknesses: Nose, drop+, small, rough, poor shape, late, stem attachment.

CO99338-3RU/Y – Round Russet/Yellow. Parentage (Russet Nugget x Crispin). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

Uses: Specialty.
Strengths:
Weaknesses: Small, light skin russet, poor internals.

COTX00104-7R – Oblong Red. Parentage (ND3574-5R x C086218-2). Cross was made in Colorado and selected in Texas. Medium-early maturity. Medium vine size.

Uses: Fresh.
Strengths: Nice flesh.
Weaknesses: Low yield, Rhizoctonia, russeting, poor shape, rough green sprouts, ugly, second growth, flat, road map early, drop++. .

COTX00328-1Pu/Ypu - Oblong Purple. Parentage (ATD252-5R X BO811-13RY). Cross was made in Colorado and selected in Texas.

Uses: Chip.
Strengths: High yield, yellow flesh with purple streaks.
Weaknesses:

COTX00411-4R- Oblong Red. Parentage (German Butterball X NDC5281-2R). Cross was made in Colorado and selected in Texas.

Uses: Fresh.
Strengths: Nice flesh, very nice flesh.
Weaknesses: Silver scurf, small, low yield, small, yield- lenticels, poor shape, drop.

COTX02172-1R - Oblong Red. Parentage (CO94065-2R x ND3574-5R). Cross was made in Colorado and selected in Texas.

Uses: Fresh.
Strengths: Keep?, nice flesh.
Weaknesses: Poor shape, rough, pale, skin, 30 green head, drop?, heat sprouts stem indentations, low yield.

COTX02377-1W - Round White. Parentage (Dakota Pearl x Chipeta). Cross was made in Colorado and selected in Texas.

Uses: Chip.
Strengths: BOT.
Weaknesses:

COTX03025-1P/P – Oblong Purple/Purple. Parentage (CO94165-3P/P x PA97B36-3). Cross was made in Colorado and selected in Texas.

Uses: Specialty.
Strengths: All Blue flesh but darker
Weaknesses: Road map, poor skin finish, drop.

COTX03025-2P/P - Oblong Purple/Purple. Parentage (CO94165-3P/P x PA97B36-3). Cross was made in Colorado and selected in Texas.

Uses: Specialty.
Strengths: Smooth, round, keep for flesh.
Weaknesses: Road map poor skin finish.

COTX03039-1R/Y - Oblong Red/Yellow. Parentage (CO97233-3R/Y x VC0967-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: Specialty.
Strengths: Nice flesh, nice, keep smooth early, large tubers.
Weaknesses: Oversize, lenticels.

COTX03047-1P/P - Oblong Purple/Purple. Parentage (PA97B37-3R/R x All Blue). Cross was made in Colorado and selected in Texas.

Uses: Specialty.
Strengths: Fingerling keep.
Weaknesses: Ugly, some raised eyes, rough.

COTX03079-1W/Y - Oblong White/Yellow. Parentage (VC1015-7R/Y x CO97232-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: Specialty.
Strengths: Check TC, keep+, yield+ pink eye, very nice flesh, TC, BOT++, round to oblong shape, very nice internals.
Weaknesses: Pointed to stem end, feathering variable shape, a little rough.

COTX03094-1R/Y-R – Long Red/Yellow-Red. Parentage (Austrian Crescent x Huckleberry). Cross was made in Colorado and selected in Texas.

Uses: Specialty.
Strengths: Keep, fingerling.
Weaknesses: Large tubers are ugly, pointed.

COTX03119-1R/R - Round Red. Parentage (French Fingerling x Kipfel). Cross was made in Colorado and selected in Texas.

Uses: Specialty
Strengths: Fingerling, smooth, keep.
Weaknesses: Low yield

COTX03137-1P/P – Oblong Purple/Purple. Parentage (Purple Peruvian x POR00PG2-16P/P). Cross was made in Colorado and selected in Texas

Uses: Specialty.
Strengths: Fingerling, keep?.
Weaknesses: Rough, drop, pointed, eye brows.

COTX03137-2R/R - Round Red. Parentage (Purple Peruvian x POR00PG2-16P/P). Cross was made in Colorado and selected in Texas.

Uses: Specialty
Strengths: Fingerling, keep nice skin and flesh nice, red flesh.
Weaknesses: Small did not size, rough sliver scurf.

COTX03187-1W - Fingerling White. Parentage (AC89536-5RU x A9304-3). Cross was made in Colorado and selected in Texas.

Uses: Specialty.
Strengths: Fingerling, keep, nice, TC, nice shape and yield, buff skin, long fingerling, white flesh smooth, BOT.
Weaknesses: Can oversize, poor internals, drop, better at SPR.

COTX03194-2W -Round White. Parentage (AC94296-5W x A91790-13). Cross was made in Colorado and selected in Texas.

Uses: Chip.
Strengths: BOT.
Weaknesses: Low yield, drop.

COTX03194-3W - Round White. Parentage (AC94296-5W x A91790-13). Cross was made in Colorado and selected in Texas.

Uses: Chip.
Strengths:
Weaknesses: Poor, drop.

COTX03245-1W - Round White. Parentage (BC0894-2W x CO95070-7W). Cross was made in Colorado and selected in Texas.

Uses: Chip.
Strengths:
Weaknesses: Poor, poor yield small.

COTX03254-2R - Oblong Red. Parentage (CO94019-1R x CO97078-5R). Cross was made in Colorado and selected in Texas.

Uses: Fresh.
Strengths:
Weaknesses: Drop+, poor yield.

COTX03261-1Ru - Oblong Russet. Parentage (CO94084-12RU x A88093-1). Cross was made in Colorado and selected in Texas.

Uses: Fresh.
Strengths: Nice, blocky heavy set.
Weaknesses: Small, drop, poor yield, rough, light russet skin.

COTX03270-1W - Oblong White. Parentage (CO95007-1RU x AC96052-1RU). Cross was made in Colorado and selected in Texas.

Uses: Chip.
Strengths: Keep, BOT.
Weaknesses: Poor shape.

COTX03270-3W - Round White. Parentage (CO95007-1RU x AC96052-1RU). Cross was made in Colorado and selected in Texas.

Uses: Chip.
Strengths: Keep, BOT, small, nice shape.
Weaknesses:

COTX03285-4Ru - Oblong Russet. Parentage (CO96043-5RU x A93157-6LS). Cross was made in Colorado and selected in Texas.

Uses: Fresh.
Strengths: Very large tubers, no hollow heart on over 18 oz. tubers better shape than 378.
Weaknesses: Growth cracks on small tubers yield, light set rough, pointed, skinny.

COTX04015-3W/Y - Oblong White/Yellow. Parentage (ATC98495-1W/Y x TX1674-1W/Y). Cross was made in Colorado and selected in Texas.

Uses: Specialty.
Strengths: Keep, TC, nice yield.
Weaknesses: Flat, pointed.

COTX04050-1P/P - Oblong Purple/Purple. Parentage (CO97215-2P/P x CO97306-2P/P).Cross was made in Colorado and selected in Texas

Uses: Specialty.
Strengths: Smooth, very dark flesh, nice shape, very purple flesh, keep, yield, nice skin.
Weaknesses: Lenticels, silver scurf, drop (heat sprouts), heat sprout++.

COTX04056-4P/P - Round Purple/Purple. Parentage (CO97216-1P/P x CO97227-2P/PW).Cross was made in Colorado and selected in Texas

Uses: Specialty.
Strengths: Salad type, heavy set, send to Cal/ Small potato Co., keep.
Weaknesses:

COTX04096-1R/Y – Oblong Red/Yellow. Parentage (US147-96R/Y x CO97232-2R/Y).Cross was made in Colorado and selected in Texas

Uses: Specialty.
Strengths: Nice size smooth very nice interior.
Weaknesses: Pale red skin, faded red skin.

COTX0415-3AW/Y – Oblong Yellow/Yellow. Parentage (AC97521-1R/Y x B1145-2).Cross was made in Colorado and selected in Texas

Uses: Specialty.
Strengths: Red eye, keep .
Weaknesses: Flat, some buff skin.

COTX04178-1Y/Y – Oblong Yellow/Yellow. Parentage (ATC98444-1R/Y x CO99076-1R) Cross was made in Colorado and selected in Texas

Uses: Specialty.
Strengths: 4 rating for yellow flesh, keep.
Weaknesses: Small.

COTX04188-3R/Y – Oblong Red/Yellow. Parentage (ATC98515-1R/Y x ATC98444-1R/Y) Cross was made in Colorado and selected in Texas

Uses: Specialty.
Strengths: 4 rating for yellow flesh, keep.
Weaknesses:

COTX04193-2R/Y – Oblong Red/Yellow. Parentage (ATC98515-1R/Y x ND3574-5R) Cross was made in Colorado and selected in Texas

Uses: Specialty.
Strengths: BOT, nice, keep.
Weaknesses: Heat sprouts.

COTX04267-1R/Y – Round Red/Yellow. Parentage (CO98012-5R x CO97232-2R/Y) Cross was made in Colorado and selected in Texas

Uses: Specialty.
Strengths:
Weaknesses: light skin.

COTX04303-1R/Y – Round Red/Yellow. Parentage (CO99083-2R/Y x ATC98444-1R/Y) Cross was made in Colorado and selected in Texas

Uses: Specialty.
Strengths: Nice, dark red skin.
Weaknesses:

COTX04303-2R/Y – Round Red/Yellow. Parentage (CO99083-2R/Y x ATC98444-1R/Y) Cross was made in Colorado and selected in Texas

Uses: Specialty.
Strengths: Nice, keep.
Weaknesses: Late, road map**.**

COTX04303-3R/Y – Round Red/Yellow. Parentage (CO99083-2R/Y x ATC98444-1R/Y) Cross was made in Colorado and selected in Texas

Uses: Specialty.
Strengths: Keep.
Weaknesses:

COTX04340-1R – Round Red. Parentage (ND3574-5R x CO98012-5R) Cross was made in Colorado and selected in Texas

Uses: Specialty.
Strengths: Dark red skin, keep.
Weaknesses:

COTX94218-1R - Round Red. Parentage (Red Ruby x Red Gold). Cross was made in Colorado and selected in Texas. Medium maturity. Large vine size.

Uses: Fresh.
Strengths: Nice shape, very nice flesh, keep+, BOT keep, uniform size, B size tuber, heavy set, nice flesh boiler.
Weaknesses: Rhizoctonia.

COTX94416-1R – Round Red. Parentage () Cross was made in Colorado and selected in Texas

Uses: Fresh.
Strengths: Good color, heavy set, keep (07 Mini tubers).
Weaknesses:

Dark Red Norland - Oblong Red. Parentage (Redkote x ND626). Cross was made and selected in North Dakota. Dark Red Norland is a clonal selection made by Stan Barrett of Texas and propagated by Gene Shaver, Nebraska. Early maturity. Medium vine size. Purple flower color.

Uses: Fresh.
Strengths: Early maturity, dark red tubers, high resistance to PVA and moderate resistance to common scab, PVY and PLRV, nice BOT+.
Weaknesses: Tuber color will fade if allowed to fully mature, tubers exhibit variable tuber color and size, enlarged lenticels, will heat sprout and hollow heart, susceptible to PVS and early and late blights, rough, deep eyes, faded red skin, russetting.

Green Mountain -Oval White/Yellow. Parentage (Dunmore x Excelsior).Cross made by O. H. Alexander, Charlotte, Vermont. Late maturity. Large vine size. White flower color

Uses: Specialty.
Strengths: High yielding variety; stores well; well suited for washing after two months storage; grows well in light soils, excellent for boiling, baking, and french frying; Resistant: black leg, Fusarium dry rot , verticillium wilt.
Weaknesses: Susceptible: common scab, leaf roll, phoma rot, tuber net necrosis, virus
Uses X and Y, highly susceptible: late blight.

Ivory Crisp - Round White. Parentage (ND292-1 x A77268-4). Cross was made in North Dakota and selected in Corvallis, Oregon. Medium maturity. Medium vine size. White flower color.

Uses: Chip.
Strengths: Nice, BOT. uniform, nice shape, skin, and internals++, BOT+.
Weaknesses: Greenhead, stem end discoloration, powdery scab, poor shape, bud cracks+, 10 % % ZC.

Keuka Gold – Round White/Yellow. Parentage (Steuben x Norwis). Cross made by Cornell University Potato Breeding Program; Ithaca, NY. Medium-late maturity. Medium –large vine size. White flower color

Uses: Specialty.

Strengths: Resistances to Golden nematode race Ro1and Common scab.

Weaknesses: rough light flesh, lenticels, poor skin finish, very poor shape, ugly, white flesh, drop++, susceptible to internal heat necrosis.

Magic Molly - Fingerling Purple/Purple. Parentage (Open pollinated seed ball from Red Beauty). Cross made by Bill Campbell Seed Specialist, Alaska Dept. of Natural Resources, Div. of Agriculture Plant Material, Palmer, Alaska. Medium-late maturity. Medium-large vine size.

Uses: Fresh.

Strengths: Novelty color.

Weaknesses: Susceptible to scab, PVX.

NDA7985-1R - Oval Red. Parentage (Minn 17922 x ND2225-1R). Cross was made in North Dakota and selected in Aberdeen. Early maturity. Medium-small vine size.

Uses: Fresh.

Strengths: BOT, very nice flesh.

Weaknesses: Rhizoctonia, knobs on stem end.

NDTX039190-1R - Oblong Red. Parentage (ND 8089-2R x ND 4659-5R). Cross was made in North Dakota and selected in Texas.

Uses: Fresh

Strengths: Nice flesh, TC, keep BOT.

Weaknesses: Heat sprouts, rough, heat sprouts, rough, close set, oversize, early,

NDTX049265-2WRSP/Y - Oblong White. Parentage (ATND 99331-2 Pinto x Dakota Rose). Cross was made in North Dakota and selected in Texas.

Uses: Chip.

Strengths: Nice flesh, red splash eyes, nice.

Weaknesses:

NDTX049349-12R - Oblong Red. Parentage (ND 4659-3R x Dakota Jewel). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.

Strengths: Nice flesh.

Weaknesses: Small, heat sprouts, poor shape low yield, small, low yield, 30% ZC drop+++.

NDTX059608-1Ru - Long White. Parentage (Atlantic x ND 8229-3). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.

Strengths:

Weaknesses: Poor shape.

NDTX059620-1W - Oblong White. Parentage (Dakota Crisp x Dakota Pearl). Cross was made in North Dakota and selected in Texas.

Uses: Chip.

Strengths: Good size.

Weaknesses: Flat.

NDTX059632-1W - Oblong White. Parentage (Dakota Pearl x ND 7377Cb-1). Cross was made in North Dakota and selected in Texas.

Uses: Chip
Strengths:
Weaknesses: Shape?

NDTX059878-1R - Round Red. Parentage (ND 7172V-5 x ND 028577-6RY). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.
Strengths: Early.
Weaknesses: Growth crack.

NDTX059759-1Pinto/Y - Oblong Pinto. Parentage (ATND 99331-2 Pinto x ND 7834-2P). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.
Strengths: Nice shape, purple pinto yellow flesh.
Weaknesses:

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

Uses: Fresh.
Strengths: Red pinto yellow flesh, BOT.
Weaknesses: Flat.

NDTX059761-1W/Y – Round Yellow. Parentage (ATND 99331-2 Pinto x ND 8524B-1R). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.
Strengths: Salad type, small.
Weaknesses:

NDTX059775-1W/Y - Oblong Yellow. Parentage (89063-84 x Bison). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.
Strengths: Nice, heavy set.
Weaknesses:

NDTX059827-1R - Round Red. Parentage (ND 4659-5R x ND 8512C-17R). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.
Strengths: Keep.
Weaknesses: Small.

NDTX059828-2W – Round White. Parentage (ND 4659-5R x ND 8524B-1R). Cross was made in North Dakota and selected in Texas.

Uses: Chip.
Strengths: Pinkeye, uniform size, BOT-.
Weaknesses:

NDTX059845-1R - Round Red. Parentage (ND 5124c-1R x ND 028685-4RY). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.
Strengths: Nice skin, keep.
Weaknesses:

NDTX059886-1Y/Y – Round Yellow. Parentage (ND 7192-1 x ND 8178-1Y). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.
Strengths: Salad type.
Weaknesses: Small.

NDTX059897-1Y/Y – Round Russet. Parentage (ND 7291b-2Y x Stirling). Cross was made in North Dakota and selected in Texas.

Uses: Chip.
Strengths: Atlantic like.
Weaknesses:

NDTX059902-1W - Oblong White. Parentage (ND 7291b-2Y x ND 7519-1). Cross was made in North Dakota and selected in Texas.

Uses: Chip.
Strengths: Uniform size.
Weaknesses:

NDTX059905-1Y/Y - Oblong Yellow. Parentage (ND 7291b-2Y x ND 028615AB-3). Cross was made in North Dakota and selected in Texas.

Uses: Chip.
Strengths:
Weaknesses:

NDTX4271-5R - Round Red. Parentage (NDTX9-1068-1R x ND2050-1R). Cross was made in North Dakota and selected in Texas. Early to medium maturity. Medium vine size.

Uses: Fresh.
Strengths: Good color and shape, lots of small round tubers yield+, color+, very nice, nice interior, BOT. very white flesh.
Weaknesses: Can have buff skin, heat sprouts, Rhizoctonia, road map, buff oversized, heat sprouts.

NDTX4756-1R/Y - Oblong-Red/Yellow. Parentage (3451-14R X 1618-13R). Cross was made in North Dakota and selected in Texas.

Uses: Specialty.
Strengths: Nice shape and flesh, yield+, keep, BOT+++.
Weaknesses: Zippered, small tubers, poor flesh, road map, oversize, silver scurf, mix yield-, light redskin, heat sprouts skin drop++.

NDTX4784-7R - Round Red. Parentage (ND3574-5R x ND2050-1R). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.
Strengths: Very nice flesh++, nice skin color nice shape, nice fresh, BOT.
Weaknesses: Heat sprouts poor skin finish, road map+, early, translucent flesh.

NDTX4847-7R - Oblong Red. Parentage (ND3900IR-3R x Fontenot). Cross was made in North Dakota and selected in Texas. Medium-early maturity. Medium-large vine size.

Uses: Fresh.

Strengths: Oval, nice, nice flesh.

Weaknesses: Stem indentation, low yield, heat sprouts, road map, 10% green head, 10% ZC, fair interior, road map.

NDTX4930-5W - Round White. Parentage (ND860-2 x A7961-1). Cross was made in North Dakota and selected in Texas. Early-medium maturity. Medium-large vine size. White flower color.

Uses: Chip.

Strengths: Nice shape, good yield, chips very white, early maturity and bulking, large tubers, nice internals, yield+, nice shape, excellent internals BOT+++.

Weaknesses: Very buff, flat, hollow heart on large tubers, rough, oversize+, gravity could be higher.

NDTX5067-2R - Round Red. Parentage (??). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.

Strengths: Heavy set, keep (07 Mini tubers).

Weaknesses: Late, dormancy, low yield.

NDTX5438-11R - Oblong Red. Parentage (4339-10R x 4269-9R). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.

Strengths: Keep (07 Mini tubers).

Weaknesses: Shape, small, elongated, drop?.

NDTX6773-1W - Oblong White. Parentage (ND5175-4 x S440). Cross was made in North Dakota and selected in Texas. Medium maturity. Large vine size.

Uses: Chip.

Strengths:

Weaknesses: Poor yield, all small tubers.

NDTX731-1R - Round Red. Parentage (ND169-10R x ND9476-5). Cross was made in North Dakota and selected in Texas. Early maturity. Medium-large vine size.

Uses: Fresh.

Strengths: Uniform round tubers, early, does not oversize, BOT+.

Weaknesses: Susceptible to Rhizoctonia, rough, susceptible to hollow heart, eyes somewhat deep, ugly nose, silver scurf, road map, poor internals, oversize, deep eyes and nose.

NDTX7571-3AW - Round White. Parentage (ND5084-3R x Picasso). Cross was made in North Dakota and selected in Texas. Late maturity. Large vine size.

Uses: Chip.

Strengths: Nice shape and interior, Atlantic-like, buff.

Weaknesses: Hollow heart, some zebra defect, yield-, poor internals, hollow heart, flat.

NDTX7571-5AW - Round White. Parentage (ND5084-3R x Picasso). Cross was made in North Dakota and selected in Texas.

Uses: Chip.

Strengths: Nice flesh, Atlantic-like, nice internals nice shape buff and smooth skin.

Weaknesses: Small, flat, mix, poor internals, rough yield-.

NDTX7590-3R – Round-Oblong Red. Parentage (ND5151-5R X ND5002-3R). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.
Strengths: Heavy set, nice tubers, keep (07 Mini tubers).
Weaknesses: Small.

NDTX8773-4Ru - Oblong Russet. Parentage (??). Cross was made in North Dakota and selected in Texas.

Uses: Fresh.
Strengths: Blocky, BOT, keep.
Weaknesses:

PATX99P10-1R/R - Oblong Red/Red. Parentage (All Red X PA96RR02-120). Cross was made in Prosser, Washington, tuberling grown in Aberdeen and selected in Texas.

Uses: Chip.
Strengths: Nice pale red.
Weaknesses: Road map+.

POR00PG4-1 – Oval Yellow-Red. Parentage (Granola x NDOP5847-1). Cross was made in Prosser, Washington and selected in Oregon. Medium-late maturity. Medium vine size.

Uses: Specialty.
Strengths: Nice flesh color.
Weaknesses: Heat sprouts poor internal, will oversize, red slash, rough, knobs on stem end.

POR01PG16-1 - Long Purple Fingerling. Parentage (NDOP5847-1 x Red bulk). Cross was made in Prosser, Washington, tuberling produced in Oregon, and selected in Oregon. Medium maturity. Medium vine size. Blue flower color.

Uses: Specialty.
Strengths: Flesh darker than All Blue, very dark flesh.
Weaknesses: Pointed.

POR01PG20-12 - Oblong Red/Red. Parentage (PA97B35-2 x PA97B29-3). Cross was made in Prosser, Washington, tuberling produced in Oregon, and selected in Oregon. Medium maturity. Medium vine size. Red Purple flower color.

Uses: Specialty.
Strengths:
Weaknesses: Pointed, rough, drop, feathering.

POR01PG22-1 - Long Red Fingerling. Parentage (PA97B23-2 x Red bulk). Cross was made in Prosser, Washington, tuberling produced in Oregon, and selected in Oregon. Medium maturity. Medium vine size. Red Purple flower

Uses: Specialty.
Strengths: Fingerling, nice.
Weaknesses: Heat sprouts, eye sprouts.

POR02PG26-5 - Oval Yellow-Red Eyes/Yellow. Parentage (PA99P11-2 x Pig420). Cross was made in Prosser, Washington, tuberling produced in Oregon, and selected in Oregon. Medium maturity. Medium vine size. Purple flower color.

Uses: Specialty
Strengths: Pink slash, nice.
Weaknesses: Heat sprouts, Rhizoctonia, some pear shaped.

POR02PG37 - Oval Yellow-Red Eyes/Yellow. Parentage (PA99P35-1 x Rose Gold). Cross was made in Prosser, Washington, tuberling produced in Oregon, and selected in Oregon. Medium early maturity. Medium small vine size. Red purple flower color.

Uses: Specialty
Strengths: Pink eyes.
Weaknesses: Pointed to stem end.

POR02PG5-1 - Round Red-Mottled/Red-White. Parentage (Achirana x POR00PG2-17). Cross was made in Prosser, Washington, tuberling produced in Oregon, and selected in Oregon. Late maturity. Large vine size. Red Purple flower

Uses: Specialty
Strengths: Purple/white, flesh, chip?.
Weaknesses: Poor skin finish, road map++, poor shape, , drop++.

PORTX03PG25-2R/P - Long Red Fingerling. Parentage (PA97B35-1 x PA99P7-2). Cross was made in Prosser, Washington, tuberling produced in Oregon, and selected in Texas.

Uses: Specialty.
Strengths: Nice flesh, nice fingerling, nice flesh, yield+ keep?.
Weaknesses: Rough.

PTTX05PG06-1R/R - Fingerling Red/Red. Parentage (POR01PG22-1 x MODOC). Cross was made in Prosser, Washington, tuberling produced in Texas, and selected in Texas.

Uses: Specialty
Strengths: Fingerling, light red flesh, hard.
Weaknesses: Pointed, curved, russeting, knobs, drop++, heat sprouts.

PTTX05PG06-2R/R – Fingerling Red/Red. Parentage (POR01PG22-1 x MODOC). Cross was made in Prosser, Washington, tuberling produced in Texas, and selected in Texas.

Uses: Specialty.
Strengths: Fingerling nice shape.
Weaknesses: Bad heat sprouts++, drop++++.

PTTX05PG07-1W - Oblong. Parentage (POR01PG22-1 x OR00067-7). Cross was made in Prosser, Washington, tuberling produced in Texas, and selected in Texas.

Uses: Specialty.
Strengths: Fingerling smooth, keep+, BOT, TC.
Weaknesses: Curved, green head, pointed.

PTTX05PG07-2P/R - Fingerling Purple/Red. Parentage (POR01PG22-1 x OR00067-7). Cross was made in Prosser, Washington, tuberling produced in Texas, and selected in Texas.

Uses: Specialty.
Strengths: Nice internals.
Weaknesses: Curved, poor skin finish+, road map, drop+.

PTTX05PG07-3R/R - Fingerling Red/Red. Parentage (POR01PG22-1 x OR00067-7). Cross was made in Prosser, Washington, tuberling produced in Texas, and selected in Texas.

Uses: Specialty.
Strengths: Fingerling, nice flesh, keep+.
Weaknesses: Rough, drop?, low yield.

PTTX05PG11-2R/Y –Long Red/Yellow. Parentage (POR02PG26-1 x MAZAMA). Cross was made in Prosser, Washington, tuberling produced in Texas, and selected in Texas.

Uses: Specialty
Strengths:
Weaknesses:

Ranger Russet - Long Russet. Parentage (Butte x A6595-3). Cross was made and selected in Aberdeen. Released in 1991 by USDA-ARS, and the Colorado, Aberdeen, Oregon and Washington Agricultural Experiment Stations. Medium-late maturity. Large vine size. White flower color.

Uses: Dual purpose.
Strengths: Dual purpose, medium to high specific gravity, good fry color from 45o storage, resistance to internal defects including hollow heart, brown center, net necrosis and sugar ends, high yield of large tubers, resistance to early dying.
Weaknesses: Susceptibility to scab, tendency for deep eyes, susceptibility to stress induced malformities, mediocre performance in Texas, feathering.

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. Medium maturity. Medium-large vine size. Purple flower color.

Uses: Fresh.
Strengths: High yields, wide adaptability.
Weaknesses: Deep eyes, light color, occasional hollow heart, occasional growth cracks, Susceptible to PVX, PVY, PVS, PVM, PLRV, early and late blights, scab, corky ring spot, bacterial wilt, and Rhizoctonia, tubers can over-size and have poor skin set.

Rio Rojo (Protected – PVP). - Round-oval Red. Parentage (ND1562-4R x NDTX9-1098-11R). Evaluated as NDTX4304-1R. Cross was made in North Dakota and selected in Texas. Early to medium maturity. Medium vine size. Dormancy is similar to Red LaSoda but longer than Dark Red Norland.

Uses: Fresh.
Strengths: Yield+, nice exterior, hollow heart resistant, good color, very nice interior, attractive bright red color, can store well, BOT.
Weaknesses: Can oversize, seems to set high in bed, feathering, can skin and exhibit variability in tuber color, feathering, deep nose, heat sprouts, and growth cracks, some rot, silver scurf.

Russet Burbank - Long Russet. Luther Burbank reported the origin of Russet Burbank in 1914 as a chimeric selection from the variety Burbank by Lou Sweet. Lou Sweet was a potato grower in the western slope area of Colorado and was President of the Potato Association of America in 1920. Late maturity. Large vine size. White flower color.

Uses: Dual.
Strengths: Tolerant to scab, good long term storage.
Weaknesses: Susceptible to Fusarium and Verticillium wilts, PLRV, PVY and net necrosis, Jelly-end and sugar-end develop in tubers when plants are subjected to stress, stress results in knobs, pointed ends, and dumbbells.

Russet Norkotah - Oblong-long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Released in 1987 by the North Dakota Agricultural Experiment Station. Early-medium maturity. Medium vine size. Corolla is white and anthers are yellow-orange.

Uses: Fresh.

Strengths: Uniform tuber shape, excellent appearance, and resistance to hollow heart, shallow eyes, high percentage of #1 tubers, tolerance to common scab and silver scurf.

Weaknesses: Weak vine, susceptibility to early dying, most viruses

Uses especially PVY, and late blight, and very susceptible to Verticillium wilt and early blight.

Russet Norkotah278 (Protected – PVP)-. Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. TXNS 278 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah. Early maturity. Medium-large vine size. White flower color.

Uses: Fresh.

Strengths: Good yield, uniform tuber shape, excellent appearance, resistance to hollow heart, some increased resistance to early dying, and environmental stresses, lower N requirement, more vigorous, and higher yielding than Russet Norkotah, heavy net, BOT.

Weaknesses: Five to ten days later than Russet Norkotah. Can produce a higher percentage of misshapen tubers than Russet Norkotah .

Russet Norkotah296 (Protected – PVP). - Oblong-long Russet. Parentage (ND95264Ru x ND9687-5Ru). Cross was made and selected in North Dakota. TXNS 296 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah . Early maturity. Medium vine size. White flower color.

Uses: Fresh.

Strengths: Nice, BOT.

Weaknesses: Five to ten days later than Russet Norkotah. Can produce a higher percentage of misshapen tubers than Russet Norkotah .

Russet Norkotah-S3 (Protected – PVP)-. Oblong-long Russet. Parentage (ND95264Ru x ND9687-5Ru). Cross was made and selected in North Dakota. S3 is a mutant strain selection made in Colorado. Large vine size. White flower color.

Uses: Fresh.

Strengths: Potential for high yield, nice shape.

Weaknesses: Ten to 14 days later than Russet Norkotah, late, rough, poor shape, pointed, small, pointed skinny.

RZ94-2262- Oblong White Parentage (??). Variety from the HZPC Corporation

Uses: Specialty.

Strengths: nice yellow flesh, buff skin

Weaknesses nipple on shoulder road map poor 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: Early harvested processing.

Strengths: Good early yields, high percentage of large tubers, resistance to blackspot bruise, tolerant to heat stress.

Weaknesses: Specific gravity is variable and erratic, sugars accumulate during storage, fries dark from 45o storage, very susceptible to common scab, PVX, PVY, early and late blight, Verticillium wilt and pinkeye, small, curved, poor shape, dumb bell, blocky, rough.

Stampede Russet - Oblong-Long Russet. Parentage (BR7091-1 x Lemhi Russet), cross made in Texas, selected in Idaho and tested extensively in Alberta, Canada. Released in 1999 by Agriculture and Agri-Food Canada and the Texas Agricultural Experiment Station. Early maturity. Medium vine size. Lavender flower color.

Uses: Fresh.
Strengths: Smooth tubers with good skin set, high yielding, dark attractive russet skin.
Weaknesses: Tubers can be short.

TX03185-1R/R – Oblong Red/Red. Parentage (BTX1749-1W/Y x NDTX4271-1R). Cross was made and selected in Texas.

Uses: Specialty.
Strengths: Red flesh with yellow pith, yield+, keep+.
Weaknesses: Some pointed road map.

TX03196-1W – Round White. Parentage (NDTX4748-7R x Adora). Cross was made and selected in Texas.

Uses: Chip.
Strengths: Very nice, nice shape.
Weaknesses:

TX03198-2Y-R/Y - Round Yellow-Red/Yellow. Parentage (ATTX98498-1R/Y x NDTX4271-1R). Cross was made and selected in Texas.

Uses: Specialty.
Strengths: Smooth, red eyes, keep.
Weaknesses: Lenticels, raised eyes.

TX04212-1R/Y

TX04212-1R/Y. Oblong Red Parentage (ATTX98500-2PU/Y x ATTX01178-1R). Cross was made and selected in Texas.

Uses: Specialty.
Strengths: 4 rating for yellow flesh.
Weaknesses: Flat.

TX04237-6Y/Y. Oblong Yellow. Parentage (Russet Nugget x A92030-5). Cross was made and selected in Texas.

Uses: Specialty.
Strengths: Light flesh, 1 hill, keep.
Weaknesses:

TX04239-2R/Y. Oblong Red Parentage (TXA1655-DY x A9014-2). Cross was made and selected in Texas.

Uses: Specialty.
Strengths: Look at again.
Weaknesses:

TX1475-3W. Oblong White Parentage (TX1229-6W x AC80545-1). Cross was made and selected in Texas.

Uses: Chip.
Strengths: (07 Mini tubers), large tubers
Weaknesses: Surface cracks, lenticels,

TX1523-1Ru/Y (Sierra Gold™) (Protected – PVP). - Round-oblong Russet/Yellow. Parentage (Krantz x Delta Gold). Cross was made and selected in Texas. Early maturity. Medium vine size.

Uses: Specialty.

Strengths: Flesh color-3.3, nice yield+, nice, excellent internals BOT++++.

Weaknesses: Can oversize.

TX1674-1W/Y - Oblong-long White/Yellow. Parentage (Russet Nugget x Delta Gold). Cross was made in Texas and selected in Texas. Early maturity. Medium vine size. Light lavender flower color.

Uses: Specialty.

Strengths: Red eyes, nice interior, yield+, parent, BOT+.

Weaknesses: Fat.

TXA549-1Ru - Oval Russet. Parentage (ND9687-3Ru x ND9852-1Ru). Cross was made in Texas, selected in Aberdeen and tested extensively in Alberta, Canada. Medium-late maturity. Medium-large vine size. Purple flower color with white tips.

Uses: Dual.

Strengths: Nice, parent, nice net and internal, smooth tubers with good skin set, high yielding, and dark attractive russet skin.

Weaknesses: Poor internals, blocky, Rhizoctonia.

TXCR-2Ru - Long Light Russet. Parentage (A6789-7 x A6680-5). Cross made and selected by USDA/ARS Aberdeen, ID. TXCR-2Ru is a mutant strain selection made in 1995 by Texas from the variety Century Russet. Late maturity. Large vine size. White flower color.

Uses: Fresh.

Strengths: Nice, high yield, long, light net, BOT- for interior, yield+, nice internals.

Weaknesses: Pointed, rough, feathering, cone shaped, poor shape, knobs, eye knobs, century like, pointed to stem end, skinny rough, curved feathering drop+++.

TXCR-4Ru - Long Light Russet. Parentage (A6789-7 x A6680-5). Cross was made and selected by USDA/ARS Aberdeen ID. TXCR-4Ru is a mutant strain selection made in 1995 by Texas from the variety Century Russet. Late maturity. Large vine size. White flower color.

Uses: Fresh.

Strengths: Yield, nice internal, yield+.

Weaknesses: Rot, eye bulge, light russet, rough, pointed, poor shape and net, eyes a little deep, heat sprouts, pointed to stem end, stem nipples, not as long as -4, poor shape, feathering, heat sprouts, bad sprouting, feathering, rough, curved, low gravity, pointed drop++++

TXYG105-. 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. TXYG105 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

Uses: Fresh.

Strengths: (07 Mini) tubers.

Weaknesses: Rough, knobs.

TXYG107-. 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. TXYG107is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

Uses: Fresh.
Strengths: Very nice, yield-.
Weaknesses:

TXYG55-. 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. TXYG55 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

Uses: Fresh.
Strengths:
Weaknesses: Yield?.

TXYG57-. 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. TXYG57 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

Uses: Fresh.
Strengths: (07 Mini) tubers.
Weaknesses: Rough, knobs.

TXYG79-. 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. TXYG79 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

Uses: Fresh.
Strengths: (07 Mini) tubers.
Weaknesses: Rough, knobs.

TXYG98-. 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. TXYG98 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

Uses: Fresh.
Strengths: Yield+, BOT (07 Mini tubers).
Weaknesses:

UMTX383-3WRE/Y - Round White Red Eye/Yellow. Cross was made in Minnesota and selected in Texas.

Uses: Specialty.
Strengths: Keep.
Weaknesses:

Vivaldi - Oblong White Parentage (??). Variety from the HZPC Corporation

Uses: Specialty.
Strengths: Nice shape, very nice, very nice yellow flesh, BOT+.
Weaknesses: green sprouts,

Yukon Gold - Oblong White/Yellow. Parentage (W5279-4 x Norgleam). Cross was made and selected in Ontario, Canada. Released in 1980 by Agriculture Canada, The University of Guelph, and The Ontario Ministry of Agriculture & Food, Guelph, Ontario. Medium-early maturity. Medium-large vine size. Violet flower color.

Uses: Specialty.

Strengths: Attractive yellow flesh tubers with red eyes, good yield, resistant to mild mosaic, moderately resistant to PLRV.

Weaknesses: Can exhibit some feathering, Susceptible to PVY and common scab, hollow heart and internal heat necrosis can be a problem, Plant establishment is irregular, particularly from basal end seed pieces.

Appendix B. Parentage of potato varieties or selections-2007.

Variety or Selection	Parentage
Ackersegen	Hindenburg x Allerfruheste
Adora	Pimura x Alcmaria
Agria	Quarta x Semlo
All Blue	Unknown
Alpha	Paul Kruger x Preferent
Ambra	Duke of York x Reneta Lub B 53
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
Binje	Munstersen x Fransen
Caesar	Monalisa x Rop B 1176
Carola	
Carrera	
Century	A6789-7 x A6680-5
Chipeta	WNC612-13 x Wischip
Climax	Bintje x Record
Courage	
Dakota Jewel	ND2223-8R x ND649-4R
Dark Red Norland	Redkote x ND626
Day-9	
Delikat	
Desiree	Urgenta x Depesche
Diamante	TDV54-30-8 x SVP55-89
Dore	Duke of York x BiermaA7
Eerstelling	Early Primrose x King Kidney
Eigenheimer	Blaue Riesen x Fransen
Estima	
Fabula	
Florissant	Premiere x VK 69-491
Fortuna	
Foxton	Irene x Maris Piper
German Butter Ball	
Golden Sunburst	
Granola	3333/60 x 267 04
Green Mountain	Dunmore x Excelsior
Hertha	Dijkhuis61-133 x Konst62-374
Ilong	

Variety or Selection	Parentage
Innovator	Shepody x RZ 84-2580
Irish Crispin	Amigo x DH70-699 3a
Ivory Crisp	ND292-1 x A77268-4
Keuka Gold	Steuben x Norwis
KLONDYKE ROSE	
Krasaua	Visnovske Rohlic x B53
La Rouge	LaSoda x Progress
Latona	Jaerla x Nicola
Magic Molly	Open pollinated seed ball from Red Beauty
Maris Piper	
Mazama	ND1196-2R x Redsen
Molli	
Mondial	Spunta x Ve 66-295
Morning Gold	Olinda x Y 68-4-103
NorDonna	ND206-1R x ND821-6R
Norgold-M	ND2475-8 x A119-1
NorValley	NorChip x ND860-2
Oscar	Desiree x VK 64 491
Ottar	Dore x DsxAS-737
Penta	Bellona x Estima
Pimpernel	
Platina	
Premiere	
Primica Inta	
Ranger Russet	Butte x A6595-3
Red Gold	G68211 x G6521-4RY
Red LaSoda	Triumph x Katahdin
Rio Rojo	ND1562-4R x NDTX9-1098-11R
Rose Gold	Abnaki x G6521-4RY
Russet Burbank	Mutant from Burbank
Russet Legend	Century Russet x WNC672-2
Russet Norkotah	ND9526-4RU x ND9687-5Ru
Russet Norkotah 278	ND9526-4RU x ND9687-5Ru
Russet Norkotah 296	ND9526-4RU x ND9687-5Ru
Russet Norkotah-S3	ND9526-4RU x ND9687-5Ru
Rutt	Laila x Alcmaria
Saginaw Gold	MS321-38 x Michibonne
Sangre	Viking x A6356-9
Sangre-10	Viking x A6356-9
Sante	SVPY66-13-636 x AM66-42
Satina	Puntila x 99 73
Shepody	Bakeking x F58050
Stampede Russet	BR7091-1 x Lemhi Russet

Variety or Selection	Parentage
Strobrawa	MPI55 957/54 x Mira
Super Red	
TX1523-1Ru/Y (Sierra Gold™)	Krantz x Delta Gold
Ukama	Marijke x Sirtema
Urgenta	Furore x Katahdin
Valisa	
Viking	Redskin x Nordak
Vivaldi	TZ 77-148 x Monalisa
Vokal	Primura x Rheinhort
Winema	Redsen x ND1196-2R
Yellow Finn	
Yukon Gold	W5279-4 x NorGleam
Numbered Clones	
A95409-1	A89146-8 x Ranger Russet
A96104-2	A88236-4 x A89512-3
A96510-4Y	PA92A17-6 x A91194-4
A97287-6	PA92A17-6 x A91194-4
AC96052-1RU	A81386-1 x A9014-2
AC97097-14W	Brodick x A91746-8
AC97521-1R/Y	SJP/T48YF x A91846-5R
AC99213-8W	A900467-14 x NDA5698-8
AC99329-7RW/Y	Inca Gold x A91846-5R
AO96141-3	A89222-3 x COA90064-6
AO96164-1	A89384-10 x A91194-4
AOA95154-1	Bannock x A89152-4
AOA95155-7	Bannock x A89163-3LS
AOTX02060-1Ru	A97201-4 x A93157-6LS
AOTX02066-1Ru	A97218-1 x A97201-4
AOTX02136-1Ru	A96563-8 x A92030-5
AOTX03096-1Ru	A97198-15 x A92030-5
AOTX03134-1Ru	A98082-17 x AC93026-9RU
AOTX91861-4R	Red LaSoda X ND2224-5R
AOTX93483-1R	NDO2686-6R X AD82705-1R
AOTX95265-1Ru	A89216-9 x A86102-6
AOTX95265-2ARu	A89216-9 X A86102-6
AOTX95265-3Ru	A89216-9 x A86102-6
AOTX95265-4Ru	A89216-9 x A86102-6
AOTX95269-1Ru	A89296-3 x A89804-7
AOTX95295-1Ru	A89804-7 x Ranger Russet
AOTX95295-3Ru	A89804-7 x Ranger Russet
AOTX95309-1W	A9055-8LS x A89163-3LS
AOTX95309-3W	A9055-8LS x A89163-3LS

Variety or Selection	Parentage
AOTX96075-1Ru	A84118-3 x A89384-10
AOTX96084-1Ru	A8792-1 X A86102-6
AOTX96208-1Ru	A9057-7 x A91194-3
AOTX96216-2Ru	A89216-9 x A86102-6
AOTX96265-2RU	A90621-4 X A84180-8
AOTX98096-1Ru	Shepody x A92158-3
AOTX98137-1Ru	A8670-7 x A9310-1
AOTX99008-1Ru	A8670-7 x A9308-2
AOTX99194-1Ru	A94137-1 x GemStar Russet
ATTX00289-4W	NDA5507-3 X TXA1655-1DY
ATTX00289-6Y/Y	NDA5507-3 X TXA1655-1DY
ATTX95490-2W	Red LaSoda X A89655-5DY
ATTX961014-1AR/Y	A90601-2RDY X MAZAMA
ATTX961014-1R/Y	A90601-2RDY X MAZAMA
ATTX98444-16R/Y	A83360-9R X T48YF
ATTX98453-6R	A93490-1R x A91846-5R
ATTX98462-3R/Y	ATD251-5RY X BO811-13RY
ATTX98466-5R/W-R	ND2051-1Ru x A7961-1
ATTX98468-5R/Y	ATD252-5R X A93457-4R
ATTX98491-4YRsplash/Y	P94A2-3Y X A92657-1R
ATTX98500-2P/Y	P94A2-4Y X Granola
ATTX98500-3P/Y	P94A2-4Y X Granola
ATTX99325-1P	AGRIA X W1100R
ATX00270-2R	CO89097-2 x ND5256-7R
ATX02014-1Ru	A91186-2 x Ranger Russet
ATX02263-1R/Y	Inca Gold x A92653-6R
ATX03003-1Ru	Western Russet x A98079-1
ATX03003-1Ru	Western Russet x A98079-1
ATX03068-1Ru	A95109-1 x Silverton Russet
ATX03077-2Ru	A96095-3 x A92030-5
ATX03407-2Ru	Stampede Russet x Alturas
ATX03409-1W/Y	Summit Russet x A96013-2
ATX03409-2W/Y	Summit Russet x A96013-2
ATX03409-3W/Y	Summit Russet x A96013-2
ATX03409-6W/Y	Summit Russet x A96013-2
ATX03409-7W/Y	Summit Russet x A96013-2
ATX03424-1Ru	Wallowa Russet x A98292-2
ATX03491-1R/Y	A97521-3R x AO93487-2R
ATX03496-3Y/Y	NDTX4271-5R x AO93487-2R
ATX84378-6Ru	A79141-9 x ND329-1
ATX85404-8W	Gemchip x ND860-2
ATX91137-1Ru	A81473-2 x A8343-12

Variety or Selection	Parentage
ATX9132-2W/Y	??
ATX9332-12Ru	A8850-1 x A88288-1
ATX97147-4Ru	A79180-10 x A88236-6
ATX97232-1Ru	A79180-10 x A88236-6
ATX99194-3Ru	A94137-1 x GemStar Russet
BTX1544-2W/Y	BO811-13 x Yukon Gold
BTX1749-1W/Y	K7-6 x BO925-4
BTX2332-1R	B1523-4 x Super Red Norland
CO95172-3RU	Russet Nugget x AC88165-3
CO96141-4W	BC0894-2 x AC87340-2
CO97043-14W	AC91817-5 x AC87340-2
CO97065-7W	AC92513-3 x Chipeta
CO97087-2RU	CO87009-4 x W1005
CO97138-3RU	NDO2904-7 x CO90052-1
CO97138-7RU	NDO2904-7 x CO90052-1
CO97215-2P/P	CO94163-1 x CO94183-1
CO97222-1R/R	CO94170-1 x CO94183-1
CO97226-2R/R	CO94183-1 x CO94214-1
CO97227-2P/PW	CO94183-1 x CO94215-1
CO97232-1R/Y	CO94218-1 x VC0967-2
CO97232-2R/Y	CO94218-1 x VC0967-2
CO97233-3R/Y	CO94218-1 x VC0967-5
CO98012-5R	PA92A17-6 x A91194-4
CO98067-7RU	Silverton Russet x TC1675-1
CO98368-2RU	Russet Nugget x Bannock Russet
CO99045-1W/Y	Rio Grande Russet x German Butterball
CO99076-6R	PA92A17-6 x A91194-4
CO99256-2R	PA92A17-6 x A91194-4
CO99256-3R	Rio Colorado x Colorado Rose
CO99338-3RU/Y	Russet Nugget x Crispin
COTX00104-7R	ND3574-5R x C086218-2
COTX00328-1Pu/Ypu	ATD252-5R X BO811-13RY
COTX00411-4R	German Butterball X NDC5281-2R
COTX02172-1R	CO94065-2R x ND3574-5R
COTX02377-1W	Dakota Pearl x Chipeta
COTX03025-1P/P	CO94165-3P/P x PA97B36-3
COTX03025-2P/P	CO94165-3P/P x PA97B36-3
COTX03039-1R/Y	CO97233-3R/Y x VC0967-2R/Y
COTX03047-1P/P	PA97B37-3R/R x All Blue
COTX03079-1W/Y	VC1015-7R/Y x CO97232-2R/Y
COTX03094-1R/Y-R	Austrian Crescent x Huckleberry
COTX03119-1R/R	French Fingerling x Kipfel

Variety or Selection	Parentage
COTX03137-1P/P	Purple Peruvian x POR00PG2-16P/P
COTX03137-2R/R	Purple Peruvian x POR00PG2-16P/P
COTX03187-1W	AC89536-5RU x A9304-3
COTX03194-2W	AC94296-5W x A91790-13
COTX03194-3W	AC94296-5W x A91790-13
COTX03245-1W	BC0894-2W x CO95070-7W
COTX03254-2R	CO94019-1R x CO97078-5R
COTX03261-1Ru	CO94084-12RU x A88093-1
COTX03270-1W	CO95007-1RU x AC96052-1RU
COTX03270-3W	CO95007-1RU x AC96052-1RU
COTX03285-4Ru	CO96043-5RU x A93157-6LS
COTX04015-3W/Y	ATC98495-1W/Y x TX1674-1W/Y
COTX04050-1P/P	CO97215-2P/P x CO97306-2P/P
COTX04056-4P/P	CO97216-1P/P x CO97227-2P/PW
COTX04096-1R/Y	US147-96R/Y x CO97232-2R/Y
COTX0415-3AW/Y	AC97521-1R/Y x B1145-2
COTX04178-1Y/Y	ATC98444-1R/Y x CO99076-1R
COTX04188-3R/Y	ATC98515-1R/Y x ATC98444-1R/Y
COTX04193-2R/Y	ATC98515-1R/Y x ND3574-5R
COTX04267-1R/Y	CO98012-5R x CO97232-2R/Y
COTX04303-1R/Y	CO99083-2R/Y x ATC98444-1R/Y
COTX04303-2R/Y	CO99083-2R/Y x ATC98444-1R/Y
COTX04303-3R/Y	CO99083-2R/Y x ATC98444-1R/Y
COTX04340-1R	ND3574-5R x CO98012-5R
COTX94218-1R	Red Ruby x Red Gold
NDA7985-1R	Minn 17922 x ND2225-1R
NDTX039190-1R	ND 8089-2R x ND 4659-5R
NDTX049265-2W	ATND 99331-2 Pinto x Dakota Rose
NDTX049349-12R	ND 4659-3R x Dakota Jewel
NDTX059608-1Ru	Atlantic x ND 8229-3
NDTX059620-1W	Dakota Crisp x Dakota Pearl
NDTX059632-1W	Dakota Pearl x ND 7377Cb-1
NDTX059759-1Pinto/Y	ATND 99331-2 Pinto x ND 7834-2P
NDTX059759-3Pinto/Y	ATND 99331-2 Pinto x ND 7834-2P
NDTX059761-1W/Y	ATND 99331-2 Pinto x ND 8524B-1R
NDTX059775-1W/Y	89063-84 x Bison
NDTX059827-1R	ND 4659-5R x ND 8512C-17R
NDTX059828-2W	ND 4659-5R x ND 8524B-1R
NDTX059845-1R	ND 5124c-1R x ND 028685-4RY
NDTX059878-1R	ND 7172V-5 x ND 028577-6RY
NDTX059886-1Y/Y	ND 7192-1 x ND 8178-1Y
NDTX059897-1Y/Y	ND 7291b-2Y x Stirling

Variety or Selection	Parentage
NDTX059902-1W	ND 7291b-2Y x ND 7519-1
NDTX059905-1Y/Y	ND 7291b-2Y x ND 028615AB-3
NDTX4271-5R	NDTX9-1068-1R x ND2050-1R
NDTX4756-1R/Y	3451-14R X 1618-13R
NDTX4784-7R	ND3574-5R x ND2050-1R
NDTX4847-7R	ND3900IR-3R x Fontenot
NDTX4930-5W	ND860-2 x A7961-1
NDTX5067-2R	??
NDTX5438-11R	4339-10R x 4269-9R
NDTX6773-1W	ND5175-4 x S440
NDTX731-1R	ND169-10R x ND9476-5
NDTX7571-3AW	ND5084-3R x Picasso
NDTX7571-5AW	ND5084-3R x Picasso
NDTX7590-3R	ND5151-5R X ND5002-3R
NDTX8773-4Ru	??
PATX99P10-1Pu/R	All Red X PA96RR02-120
POR00PG4-1	Granola x NDOP5847-1
POR01PG16-1	NDOP5847-1 x Red bulk
POR01PG20-12	PA97B35-2 x PA97B29-3
POR01PG22-1	PA97B23-2 x Red bulk
POR02PG26-5	PA99P11-2 x Pig420
POR02PG37	PA99P35-1 x Rose Gold
POR02PG5-1	Achirana x POR00PG2-17
PORTX03PG25-2R/P	PA97B35-1 x PA99P7-2
PTTX05PG06-1R/R	POR01PG22-1 x MODOC
PTTX05PG06-2R/R	POR01PG22-1 x MODOC
PTTX05PG07-1W	POR01PG22-1 x OR00067-7
PTTX05PG07-2P/R	POR01PG22-1 x OR00067-7
PTTX05PG07-3R/R	POR01PG22-1 x OR00067-7
PTTX05PG11-2R/Y	POR02PG26-1 x MAZAMA
RZ94-2262	??
TX03185-1R/R	BTX1749-1W/Y x NDTX4271-1R
TX03196-1W	NDTX4748-7R x Adora
TX03198-2Y-R/Y	ATTX98498-1R/Y x NDTX4271-1R
TX04212-1R/Y	ATTX98500-2PU/Y x ATTX01178-1R
TX04237-6Y/Y	Russet Nugget x A92030-5
TX04239-2R/Y	TXA1655-DY x A9014-2
TX1475-3W	TX1229-6W x AC80545-1
TX1674-1W/Y	Russet Nugget x Delta Gold
TXA549-1Ru	ND9687-3Ru x ND9852-1Ru
TXCR-2Ru	A6789-7 x A6680-5
TXCR-4Ru	A6789-7 x A6680-5

Variety or Selection	Parentage
TXYG105	W5279-4 x Norgleam
TXYG107	W5279-4 x Norgleam
TXYG55	W5279-4 x Norgleam
TXYG57	W5279-4 x Norgleam
TXYG79	W5279-4 x Norgleam
TXYG98	W5279-4 x Norgleam

Index of Varieties and Clones

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