

2005 Southwestern Regional Potato Variety Trial Report

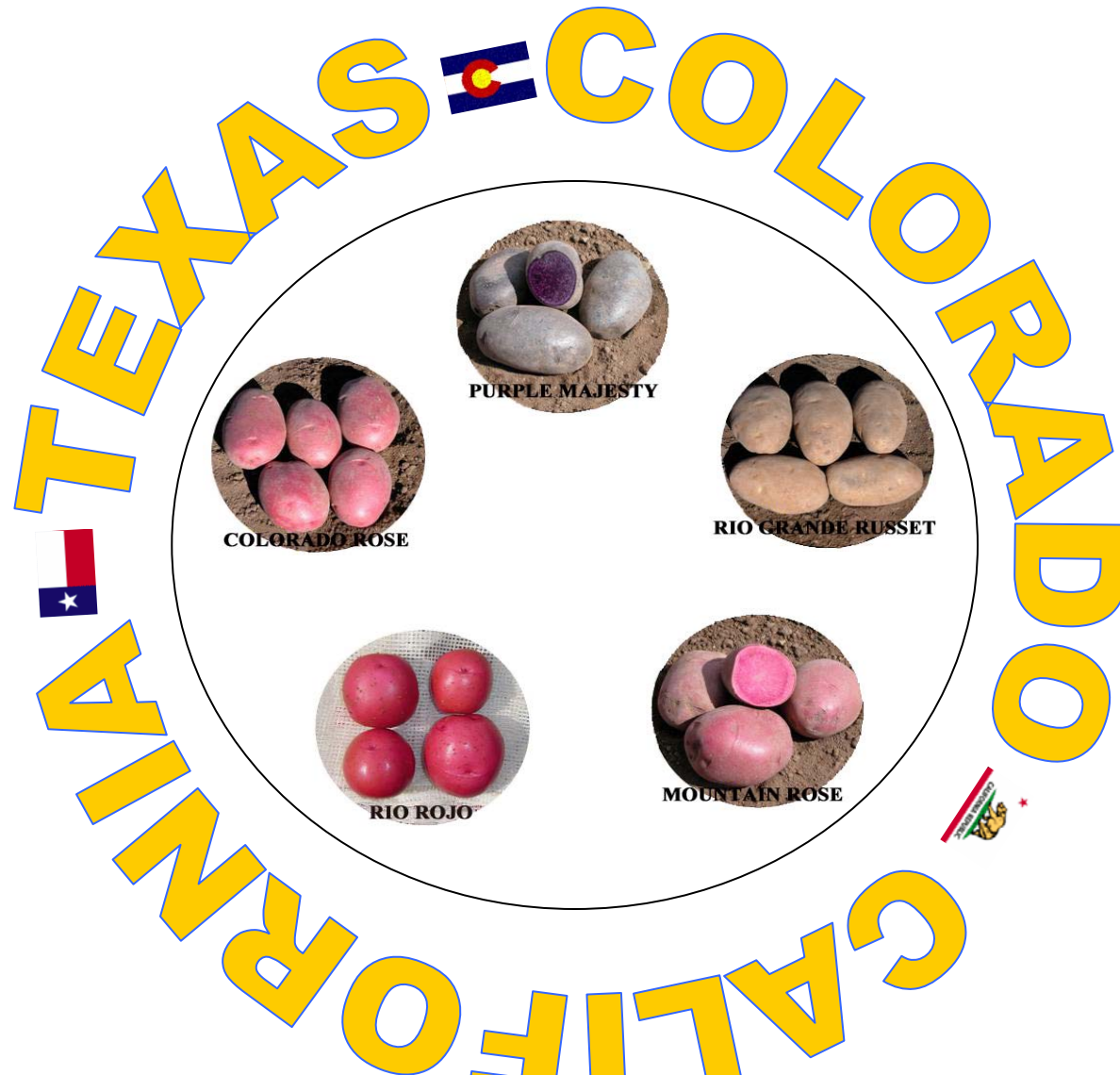


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Prefix source key for numbered advanced selections:

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 Aberdeen, Idaho

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

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

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

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

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 Beltsville, Maryland (Maine)

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

POR = cross made in Prosser 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

TXND = cross made in Texas and selected in North Dakota

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

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

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

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

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

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

Mission Statement

The mission of the Texas Potato Breeding and Variety Development Program of the Texas Agricultural Experiment Station 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 Variety Development Program in 1973, 1,712,294 seedlings have been grown for selection in Texas, from which 7,847 original selections have been made. Eleven improved varieties have been developed/co-developed and/or released from this program. Virtually all of the russet potatoes grown in Texas in 2005 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 2004 the average summer crop yield in Texas was reported to be 440 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 about \$70 million with an annual economic impact to the state in 2004 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 first or second in total seed acreage entered into certification in 2005.

Introduction

Program Summary

The Texas Potato Breeding and Variety Development Program used two locations in the 2005 growing season (Table 1). The first planting was near Springlake, Texas on 22 to 24 March 2005 and harvested on 12, 27 July, and 1, 3 August. This location included eleven replicated trials and first generation seedlings for selection. The second planting was near Dalhart, Texas on 21 May and harvested throughout October and early November. Eight replicated trials, a seed increase nursery, and first year seedlings for selection were planted at this site. The Texas program entered five selections (AOTX95265-2ARu, AOTX95265-4Ru, AOTX98137-1Ru, MWTX2609-4Ru, and TXDH-99-1Ru) in the Southwestern Regional Trials conducted in Texas, Colorado, and 2 sites in California. The Texas Program also had three entries in the Western Regional Russet Trial (MWTX2609-2Ru, TXA549-1Ru, and ATX91137-1Ru) and one in the Western Regional Red/Specialty Trial (BTX1544-2W/Y). These trials were conducted at multiple locations in 6 western states. Plant Variety Protection (PVP) is pending for TX1523-1Ru/Y (Sierra Gold™) and Stampede Russet. The major program expansion and emphasis in 2005 continued to involve virus testing, clean-up, and minituber multiplication of a large backlog of selected clones. Field day was held on 29 June at Springlake and was well attended.

Seedling program

In 2005 83,350 first year seedlings, resulting from 677 different parental combination or families (crosses), were grown for selection on the Barrett Farm (36,941) near Springlake and on the CSS Farm (46,409) near Dalhart. Two hundred sixty eight original selections were made from this material (Figure 1).

The 2005 first year seedling tubers from Texas (5,361) were grown during the fall of 2004 at College Station, primarily from true seed crosses made in Lubbock, Texas. The remaining seedling tubers were provided by Rich Novy, Idaho (9,327), Al Mosley, Oregon (24,336), David Holm, Colorado (22,047), Andy Hamernik, Madison, Wisconsin (3,278), and Susie Thompson, North Dakota (16,029). Dave Holm, Colorado also provided 2,972 mini tubers from advanced Texas selection for seed increase. The Texas program provided 4,242 second – fourth size seedling tubers to Colorado, while 3,143, 1,497, 2,465, and 1,013 were sent to North Dakota, Minnesota, Idaho, and to Chuck Brown in Washington (sent to Alaska for original selection) respectively.

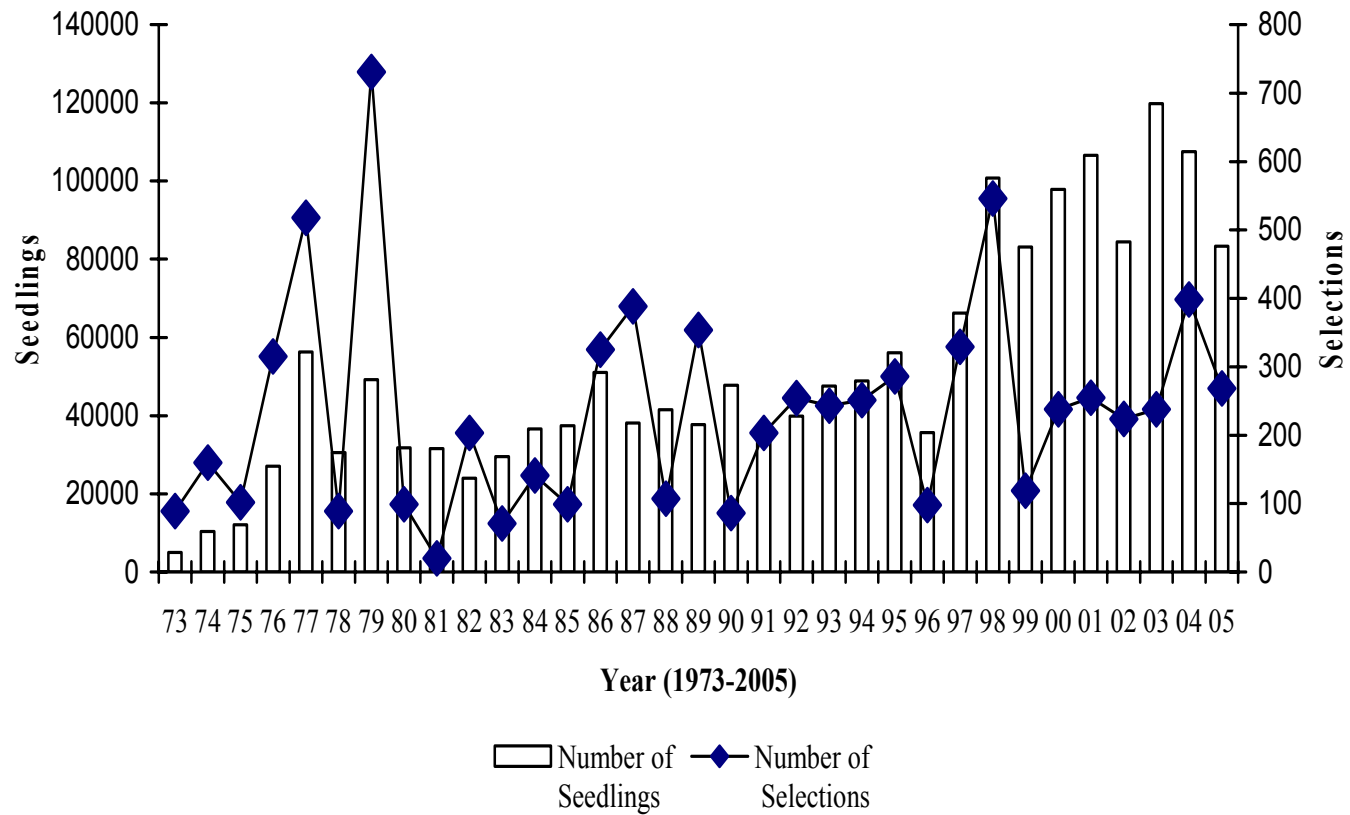


Figure. 1. Number of first year seedling tubers grown for original selection and number of selections made since the inception of the Texas Potato Variety Development Program.

Table 1. Trial locations, name of trial, number of entries, and number of plots evaluated in 2005.

Springlake			Dalhart		
Trial	# of Entries	# of Plots	Trial	# of Entries	# of Plots
Field Day Red	85	170	Texas Advanced Specialty Selections	59	464
Western Regional Red/Specialty	20	160	04 Specialty Selection	48	102
Southwest Regional Red	3	24	Western Regional Chipping	14	112
Texas Advanced Selections Red	11	88	Texas Advanced Chipping Selections	29	296
Field Day Russets	100	200	04 Chip Selection	63	140
Western Regional Russets	20	160	Texas Advanced Red Selections	36	266
Southwest Regional Russets	11	88	04 Red Selection	101	216
Pre-Southwest Russets	16	128	Texas Advanced Specialty Selections	30	112
Advanced Selection Russet	17	136	Advanced Russet Trial	18	144
Texas Advanced Selection Russets	15	114	Pre Southwest Russet	12	80
Southwest Regional Specialty	6	48	Texas Advanced Russet Selections	88	128
Texas Advanced Selection Specialty	24	192	04 Russet Selection	85	170
Texas Advanced Selection Chip	20	120	Total	583	2230
Total	348	1628	Total Entries and Plots	931	3858

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 348 advanced selections and varieties were tested in replicated and nonreplicated trials near Springlake, while 583 entries were evaluated near Dalhart (Table 1). A large seed increase nursery was grown at the San Luis Valley Research Center, Center, Colorado, by Dr. David Holm.

Since 1973, 23,286 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 the 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 associated with each trial. 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.

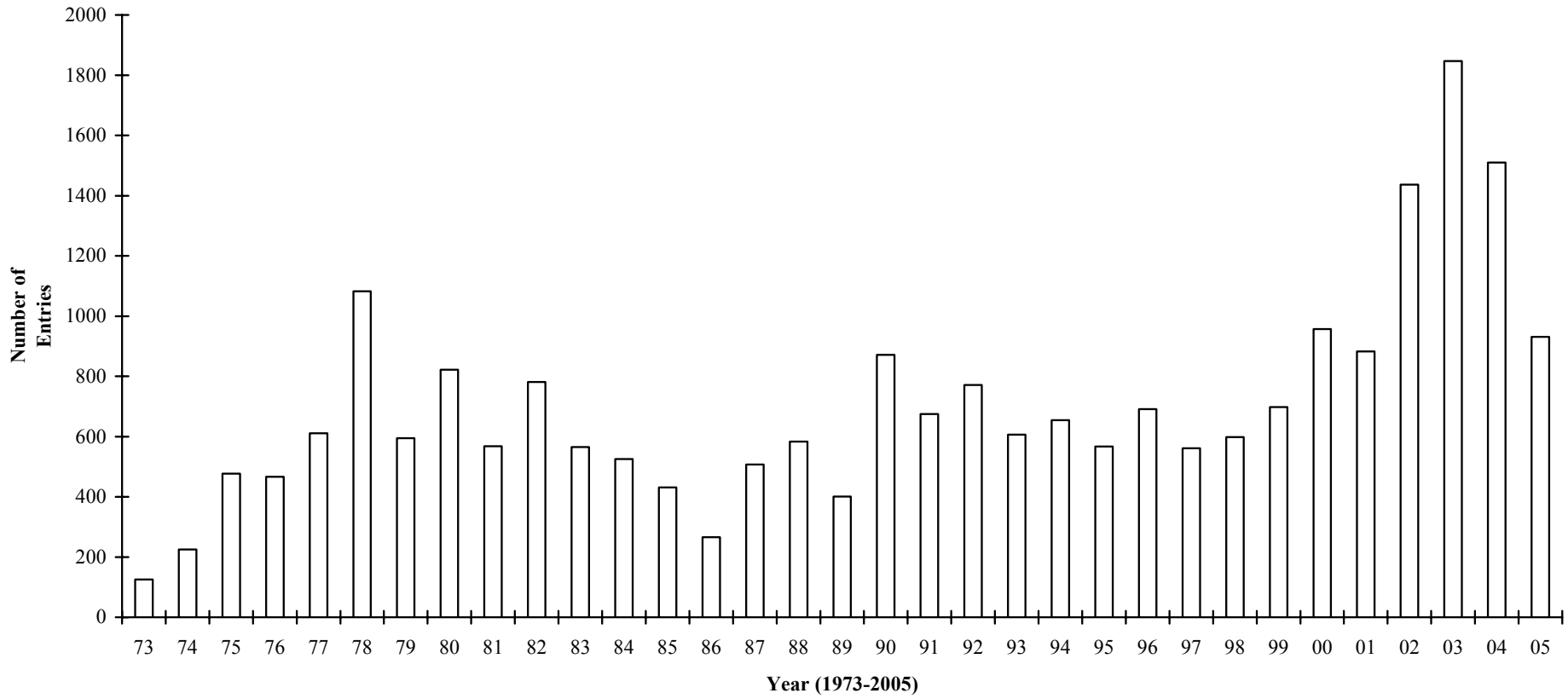


Figure 2. Number of varieties and advanced selections tested for their adaptability to Texas environmental conditions each since the inception of the Texas Potato Variety Development Program in 1973.

Springlake Trials, 2005

Summary of growing conditions:

The trials were planted near Springlake between 22 and 23 March 2005, with harvest on 12, 27 July and 1 and 3 August. These trials were subjected to higher than normal precipitation in the third and fourth weeks of May, the first week in July, and the second and third weeks of August. Temperatures were lower than normal for the last week of April and the first week of May.

Trials conducted:

- Western regional cooperative russet
- Western regional cooperative red/specialty
- Southwestern regional cooperative russet
- Southwestern regional cooperative red
- Southwestern regional cooperative specialty
- Pre-Southwestern regional cooperative russet
- Advanced russet selection
- Texas advanced russet selection
- Texas advanced red selection
- Texas advanced specialty selection
- Texas advanced chip selection

WESTERN REGIONAL COOPERATIVE RUSSET TRIAL

The three 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 2005 russet trial consisted of 22 entries, including the 4 check varieties Ranger Russet, Russet Norkotah, Russet Burbank, and Shepody.

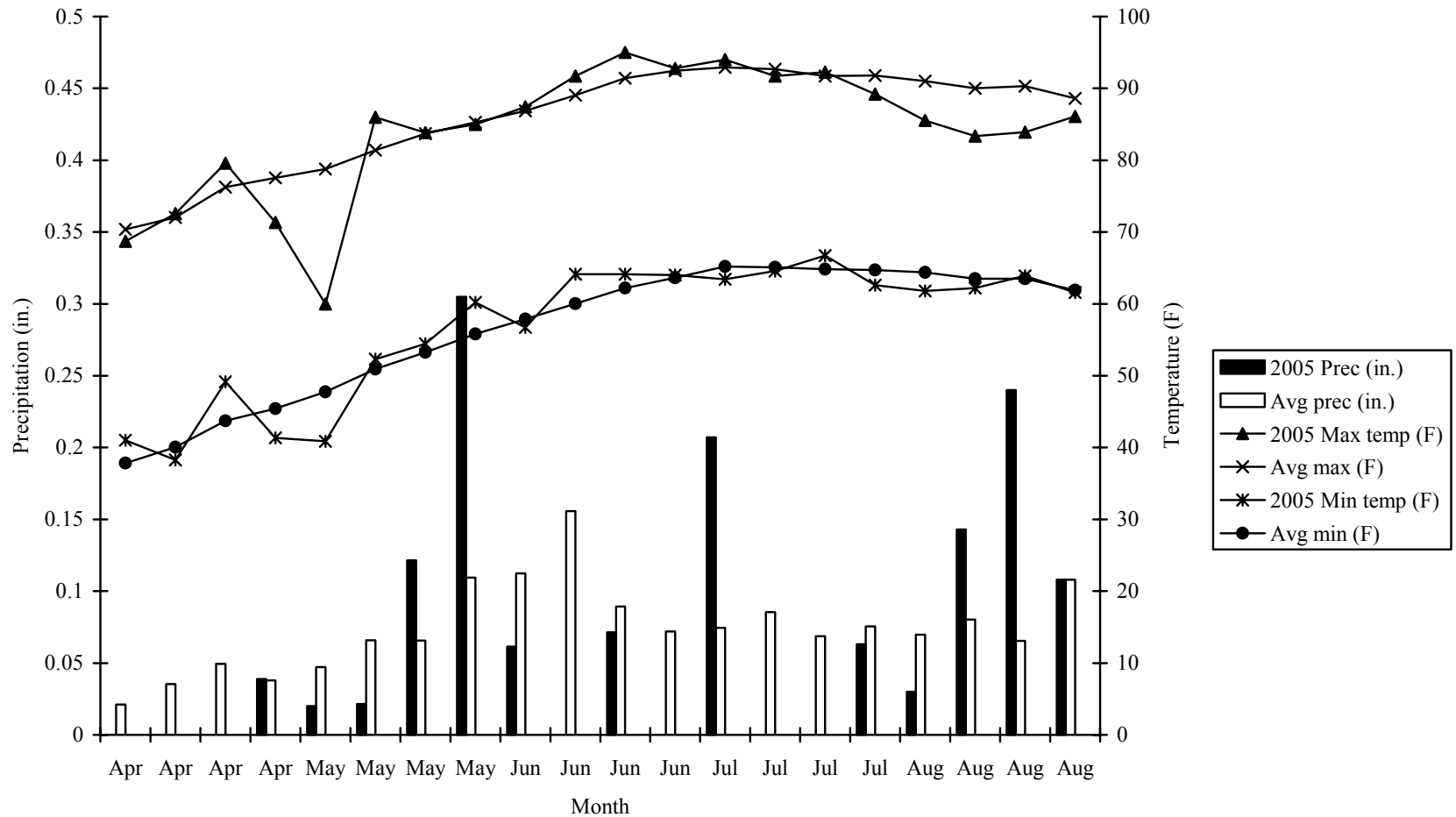


Figure 4. Weekly minimum/maximum temperatures and precipitation for the 2005 trials near Springlake, Texas during the growing season compared to average minimum/maximum temperatures and precipitation (1954-2005).

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 (BOT) designations were ATX91137-1Ru, Russet Norkotah, A93157-6LS, and A93030-5 (Table 1e). Russet Norkotah, ATX91137-1Ru, TXA549-1Ru, and A93157-6LS received high general ratings (Table 1a and Table 1e).
- MWTX2609-2Ru, A96095-3, TXA549-1Ru, and ATX91137-1Ru had the highest total yields (Table 1a)
- ATX91137-1Ru, A96095-2, and TXA549-1Ru had the highest total marketable yield and the highest yield of 10-18 oz. tubers (Table 1a).
- The clones with the highest yield of less than 4-6 oz. tubers were ATX91137-1Ru, PA97B3-2, and Russet Norkotah., while, MWTX2604-2Ru, A95409-1, and ATX91137-1Ru had the highest yield of 6-10 oz. tubers (Table 1a).
- ATX91137-1Ru and A92030-5 had the highest (84%) and second highest (79%) percent of marketable yield (Table 1b).
- PA97B3-2 and TXA549-1Ru had the highest yield of less than 4 oz. tuber. Russet Burbank and MWTX2609-2Ru had the highest yield and the second highest yield of cull/No. 2 tubers, which comprised 57% and 30% of their total yield, respectively (Table 1a and Table 1b).
- The highest specific gravity was recorded for A93157-6LS, AO96160-3, and A92030-5 (Table 1b).
- MWTX2609-2Ru, PA97B2-3, and A92294-6 had the highest average number of tubers per plant, while AOA95155-7 and A92030-5 had the lowest average number. The highest average tuber weight was recorded for A96095-3 and A92030-5 (Table 1c).
- MWTX2609-2Ru and A95109-1 were the latest maturing clones, while PA97B3-2 and CO95086-8RU was the earliest maturing (Table 1c).
- A92294-6 and Shepody had the lightest russet skin (Table 1d).
- A96095-3 and Ranger Russet had the highest percentage of vascular discoloration (Table 1d).
- Highest general ratings at grading were received by ATX91137-1Ru (3.7), A92030-5 (3.6), A95109-1 (3.5), TAX549-1Ru (3.4), and A93157-6LS (3.3) (Table 1d).

Comments on entries:

- A92030-5 Oblong Russet, knobs, pointed to stem end, fat tubers, BOT, BOT-.
- A92294-6 Long White, rough, feathering, crooked tubers, drop.
- A93157-6LS Oblong Russet, nice shape, small, BOT-.
- A95109-1 Oblong Russet ,light net color, feathering, nice.
- A95409-1 Long Russet, feathering, rough, large tubers, drop.

- A96095-3 Long Russet, curved tubers, thin, too long, pointed to stem end, drop.
- A96104-2 Oblong Russet, late, small, poor shape, Rhizoctonia, drop?, drop.
- AO96160-3 Oblong Russet, late, rough, heat sprouts, drop.
- AO96164-1 Long Russet, pointed to stem end, pointed to bud end, poor shape, drop.
- AOA95154-1 Oblong Russet, heat sprouts, late, nice, drop.
- AOA95155-7 Oblong Russet, heat sprouts, very late, feathering, poor shape, small, drop.
- ATX91137-1Ru Oblong Russet, blocky, nice, keep, attractive, BOT for all reps.
- CO94035-15RU Oblong Russet, late, Rhizoctonia, poor shape, pointed, ugly net, heat spouts, crooked, drop.
- CO95086-8RU Oblong Russet, drop.
- CO95172-3RU Oblong Russet, small, late, Rhizoctonia, pointed, small, feathering, drop.
- MWTX2609-2Ru Long Russet, heat sprouts, pointed to stem end, stem nipples, feathering, drop.
- PA97B3-2 Oblong Russet, rough, ugly net, drop.
- Ranger Russet Long Russet, late, 10% heat necrosis, heat sprouts, rough, drop.
- Russet Burbank Long Russet, small thin rough tubers, raised eyes, rough, drop.
- Russet Norkotah Oblong Russet, nice, drop for one rep, BOT-.
- Shepody Long White, heat sprouts, drop.
- TXA549-1Ru Oblong Russet, blocky, keep, fat tubers, nice.

Summary:

Overall, the outstanding entries based on general rating and marketable yield were ATX91137-1Ru and TXA549-1Ru. Other entries deserving mention include Russet Norkotah, A92030-5, A93157-6LS, and A95109-1.

WESTERN REGIONAL COOPERATIVE RED/SPECIALTY TRIAL

This trial consisted of 21 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)

- The outstanding entries based on general rating were Dark Red Norland, A96741-2R, and VC1075-1R (Table 2a).
- VC1075-1R and Dark Red Norland had the highest total yield, while Red LaSoda and Dark Red Norland had the highest marketable yield (Table 2a).
- Red LaSoda had the highest yield of greater than 6 oz. tubers, while Dark Red Norland had the highest yield of 4-6 oz. tubers (Table 2a).
- A96741-1R and VC1075-1R had the highest yield of less than 4oz. tubers (Table 2a).
- Red LaSoda and Dark Red Norland had the highest percentage of marketable yield. Dark Red Norland had the highest percentage of 4-6 oz. tubers, while Red LaSoda had the highest percentage of greater than 6 oz. tubers. A96741-1R, VC1075-1R, and A96741-2R had the highest percentage of less than 4 oz. tubers (Table 2b).
- All of the entries had similar values for specific gravity (Table 2b).
- A96741-1R, A96741-2R, and VC1075-1R had the highest average number of tubers per plant, while Red LaSoda and Dark Red Norland had the lowest (Table 2c).
- Red LaSoda and Dark Red Norland had the highest average tuber weight, while A96741-1R, A96741-2R, and VC1075-1R had the lowest (Table 2c).
- The earliest maturing entry was Dark Red Norland, while VC1075-1R and A96741-1R were the latest (Table 2c).
- Red LaSoda and Dark Red Norland had oblong tubers, while those of A96741-1R, A96741-2R, and VC1075-1R tended to be round (Table 2d).
- Red LaSoda had the deepest eyes (Table 2d).
- VC1075-1R and A96741-2R had the darkest red skin color, while Dark Red Norland and Red LaSoda had the lightest (Table 2d).
- All of the entries had little or no internal defects (Table 2d).

Summary:

In general, none of the entries outperformed the check varieties although A96741-2R shows promise.

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

- Both entries received similar general ratings (Table 2a).
- VC0967-2R/Y produced the highest total yield, while VC0967-2R/Y and VC1015-7R/Y had similar yield of marketable tubers (Table 2a).
- VC0967-2R/Y had the highest yield of less than 4 oz. tubers (Table 2a).
- VC1015-7R/Y had the highest percentage of marketable and over 6 oz. tubers. VC0967-2R/Y had the higher percentage of less than 4 oz. tubers (Table 2b).
- VC0967-2R/Y had the higher specific gravity (Table 2b).
- VC0967-2R/Y had the higher average number of tubers per plant (Table 2c).
- VC1015-7R/Y and VC0967-2R/Y had similar values for average tuber weight and had similar values for maturity (Table 2c).
- VC1015-7R/Y had a much darker yellow flesh color (Table 2d).
- VC0967-2R/Y and VC1015-7R/Y had very few internal defects (Table 2d).

Summary:

Neither entry was judged to be outstanding however VC1015-7R/Y exhibited a darker yellow flesh color.

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

- CO94183-1R/R had the highest general rating (Table 2a).
- PA99920-2 produced the highest total and marketable yield (Table 2a).
- PA99920-2 had the highest yield of less than 4 oz. and 6-10 oz. tubers (Table 2a).
- None of the entries had more than 52% marketable yield (Table 2b).
- POR01PG20-12 had the highest specific gravity (Table 2b).
- All of the entries had similar values for average number of tubers per plant and average tuber weight (Table 2c).
- All of the entries had similar values for maturity, although CO94183-1R/R had the highest percentage of dead vines at harvest, while POR01PG20-12 had the lowest percentage (Table 2c).
- All of the entries had similar values for flesh color (Table 2d).

Summary:

Of the red skinned red flesh clones, CO94183-1R/R showed the most promise.

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

- CO94165-3P/P had a slightly higher general rating than All Blue (Table 2a).
- CO94165-3P/P produced higher yields in all categories than All Blue (Table 2a).
- Both entries had similar values for specific gravity (Table 2b).
- CO94165-3P/P had the highest average number of tubers per plant, while both entries had similar values for average tuber weight (Table 2c).
- CO94165-3P/P was earlier maturing than All Blue (Table 2c).
- CO94165-3P/P darker flesh color than All Blue (Table 2d).

Summary:

CO94165-3P/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 entries based on general rating were Yukon Gold, VC1123-2W/Y, and NY126 (Table 2a).
- NY126, Yukon Gold and BTX1544-2W/Y produced the highest total yield and marketable tubers (Table 2a).
- NDA5507-3YF, VC1002-3W/Y, and NY126 had the highest yield of less than 4 oz. tubers, while Yukon Gold and BTX1544-2W/Y had the highest yield of greater than 10 oz. tubers (Table 2a).
- NY126, Yukon Gold and BTX1544-2W/Y had the highest percentage of marketable yield. VC1002-3W/Y, VC1009-1W/Y, and NDA5507-3YF had the highest percentage of less than 4 oz. tubers. Yukon Gold and BTX1544-2W/Y had the highest percentage of greater than 6oz tubers (Table 2b).
- VC1002-3W/Y and NY126 had the highest specific gravity (Table 2b).
- VC1002-3W/Y and CO94157-2W/Y had the highest average number of tubers per plant, while A95074-6 and VC1009-1W/Y had the lowest (Table 2c).
- Yukon Gold, NY126 and BTX1544-2W/Y had the highest average tuber weight, while VC1002-3W/Y and CO94157-2W/Y had the lowest (Table 2c).
- The earliest maturing clones were Yukon Gold and BTX1544-2W/Y, while A95074-6 and VC1123-2W/Y were the latest (Table 2c).

- A95074-6 and CO94157-2W/Y were the longest tubers, while NY126 and NDA5507-3YF was the roundest (Table 2d).
- All of the entries had no significant levels of internal defects (Table 2d).
- VC1009-1W/Y and VC1123-2W/Y had the deepest yellow flesh color, while NY126 and A95074-6 had the lightest yellow flesh color (Table 2d).

Summary:

Several of these entries deserve further evaluation.

Comments on entries:

Red/White Flesh

- Dark Red Norland Oblong Red, road map, poor shape.
- Red LaSoda Oblong Red, deep eyes, poor yield, 10% heat necrosis, no road map.
- A96741-1R Oblong Red, flesh not very white, heat sprouts, poor shape, silver scurf, feathering, nice.
- A96741-2R Oblong Red, growth cracks, late, nice, a little rough.
- VC1075-1R Round Red, flat, eye brows, nice, road map, drop.

Red/Yellow Flesh

- VC0967-2R/Y Oblong Red, Y-1.7, heat sprouts, flat, pointed, drop.
- VC1015-7R/Y Oblong Red, Y-3.2, road map, buff, nice flesh.

Red/Red Flesh

- CO94183-1R/R Oblong Red, poor yield, road map, silver scurf, nice.
- PA99P20-2 Oblong Red, poor shape, pointed, curved tubers, silver scurf, drop.
- POR01PG20-12 Oblong-Long Red, very late, heat sprouts, knobs, poor shape, feathering, drop.

Purple/Purple Flesh

- All Blue Oblong-Long Purple, small, drop.
- CO94165-3P/P Oblong Purple, poor shape, road map, rough.

Yellow Flesh

- Yukon Gold Oblong White, Y-1.7, nice.
- A95074-6 Oblong-Long White, Y-1.7, need to size, feathering, small tubers, drop.

- BTX1544-2W/Y Oblong White Y-1.7, growth cracks, poor yield, rot, shape?, pointed to apical end.
- CO94157-2W/Y Oblong-Long White, Y-1, heat sprouts, smooth, variable flesh color, small tubers, road map, drop.
- NDA5507-3YF Oblong White, Y-2.7, red splash eyes, nice shape, feathering, smooth, pointed to stem end, buff.
- NY126 Round-Oblong White, Y-3, smooth.
- VC1002-3W/Y Oblong-Long White, Y-3, poor yield, small boilers, heat sprouts, variable shape round to long, ugly skin, road map, drop.
- VC1009-1W/Y Oblong White, Y-2.7, heat sprouts, poor yield, smooth, nice small tubers, drop.
- VC1123-2W/Y Oblong White, Y-3, heat sprouts, flat, sunburn, late, ugly skin.

¹Y=Flesh color intensity, 1=very light to 5=very dark purple or dark yellow

SOUTHWESTERN REGIONAL COOPERATIVE TRIALS

This is the eighth year for the Southwestern Regional Cooperative Trials, which in 2005 included Russet, 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 variety Russet Norkotah.

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

- The outstanding entries based on general rating and Best of Trial (BOT) designations were AOTX95265-2ARu, AOTX95265-4Ru, and Russet Norkotah (Table 3a, 3e).
- TXDH-99-1Ru and MWTX2609-4Ru had the highest total and marketable yield. TXDH-99-1Ru and AOTX95265-2ARu had the highest yield of over 10 oz. tubers. TXDH-99-1Ru and MWTX2609-4Ru also had the highest yield of less than 4 oz. and cull/No. 2 tubers (Table 3a).

- Russet Norkotah, AOTX98137-1Ru, and AOTX95265-2ARu had the highest percentage of marketable yield, while AOTX95265-2ARu, Russet Norkotah, and AOTX95265-4Ru had the highest percentage of over 10 oz tubers. TXDH-99-1Ru and MWTX2609-4Ru had both the highest yield and the highest percentage of cull/No. 2 tubers (Table 3a 3b).
- All of the entries had similar values for specific gravity (Table 3b).
- TXDH-99-1Ru and MWTX2609-4Ru had the highest average number of tubers per plant, while AC96052-1RU had the lowest tubers per plant. TXDH-99-1Ru and Russet Norkotah had the highest average tuber weight, while CO97137-1W had lowest tuber weight (Table 3c).
- TXDH-99-1Ru and MWTX2609-4Ru were the latest maturing entries, while Russet Norkotah, AOTX98137-1Ru were the earliest maturing entries (Table 3c).
- AOTX95265-4Ru, AOTX95265-2ARu, and Russet Norkotah received the highest general rating at grading (Table 3E).
- MWTX2609-4Ru and TXDH-99-1Ru had a light russet skin, while CO97137-1W had a white skin (Table 3d).
- CO97137-1W had the highest percentage of slight vascular discoloration (Table 3d).

Comments on entries:

- TXDH-99-1Ru Oblong White, some pointed to stem end, feathering, mix, 10% heat necrosis, eye knobs, nice internals, heat sprouts, drop.
- MWTX2609-4Ru Long Russet, knobs feathering, eye knobs, century like, nice, pointed to stem end, poor shape, drop?.
- AOTX95265-2ARu Oblong Russet, pointed to stem end, 40% heat necrosis, nice, Rhizoctonia, BOT.
- AOTX95265-4Ru Long Russet, very nice, Rhizoctonia, rough, crooked tubers BOT for all reps.
- AOTX98137-1Ru Oblong Russet, very nice, some pointed to stem end, drop?.
- Russet Norkotah Oblong Russet, nice, some tuber moth, BOT.
- CO97137-1W Oblong White, skinny, slight stem end discoloration, pointed to stem end, drop.
- AC96052-1RU Oblong Russet, late, small, 20% heat necrosis, nice shape, drop.

Summary:

Clearly the outstanding entry was AOTX95265-4Ru. AOTX95265-2ARu also deserves mention and both of these entries should be considered for entry into the Western Regional Trial.

SOUTHWESTERN REGIONAL COOPERATIVE RED TRIAL

The Southwestern Regional Cooperative Red Trial consisted of 3 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)

- CO97078-5R received a best of trial notation, while Dark Red Norland received the highest general rating (Table 4a, 4e).
- All three entries had similar values for total yield, while Red LaSoda had the highest marketable yield and over 6 oz. tubers. CO97097-5R had the highest yield of less than 4 oz. tubers (Table 4a).
- Red LaSoda had the highest percentage of marketable and over 6 oz. tubers, while CO97097-5R had the highest percentage of less than 4 oz. tubers (Table 4b).
- All entries had similar values for specific gravity (Table 4b).
- CO97097-5R had the highest average number of tubers per plant. All the entries were early maturing (Table 4c).
- CO97097-5R tubers were more round than the check varieties (Table 4d).

Comments on entries:

- Dark Red Norland Oblong Red, road map, poor shape.
- Red LaSoda Oblong Red, deep eyes, poor yield, 10% heat necrosis, no road map.
- CO97078-5R Oblong Red, nice red color, late, feathering, nice, nice interior, BOT.

Summary:

CO97078-5R performed very well and deserves further evaluation.

SOUTHWESTERN REGIONAL COOPERATIVE SPECIALTY TRIAL

The Southwestern Regional Cooperative Specialty Trial consisted of 6 entries, including the check variety Yukon Gold .

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

- Yukon Gold was the outstanding entry based on best of trial notations and general rating (Table 5a).
- CO97233-3R/Y and CO97232-2R/Y had the highest total yield, while Yukon Gold, CO97233-3R/Y, and CO97232-2R/Y had the highest yield of marketable tubers. CO97232-2R/Y had a highest yield of 4-6 oz. tubers while Yukon Gold had the highest yield of over 6 oz. tubers. CO97232-2R/Y and CO97226-2R/R had the highest yield of less than 4 oz. tubers (Table 5a).
- Yukon Gold had the highest percentage of marketable tubers, while CO97226-2R/R had the highest percentage of less than 4 oz. tubers. Yukon Gold had the highest specific gravity (Table 5b).
- CO97226-2R/R had the highest average number of tubers per plant, while Yukon Gold had the highest average tuber weight (Table 5c).
- CO97232-1R/Y was the earliest maturing, while AC97521-1R/Y was the latest (Table 5c).
- CO97226-2R/R had a red flesh and a very red skin color (Table 5d).
- Yukon Gold and all of the red yellow flesh clones had similar yellow flesh ratings (Table 5d).

Comments on entries:

- CO97233-3R/Y Oblong Red, feathering, poor shape, pointed, drop, nice internal, severe road map, green sprout.
- CO97232-2R/Y Oblong Red, ugly net, road map, poor shape, pointed to stem end, nice shape, buff, nice internal.
- CO97226-2R/R Round Red, road map, nice internal, nice shape, dark yellow flesh, BOT-, drop?, many small tuber, drop, feathering.
- Yukon Gold Oblong White, BOT, feathering.
- CO97232-1R/Y Oblong Red, nice color, road map, poor shape, poor flesh color, feathering, pointed to stem end.
- AC97521-1R/Y Oblong Red, poor shape, dark yellow flesh, pointed to stem end, buff skin on stem end, rough, drop ++, feathering.

Summary:

None of the entries out performed the check variety Yukon Gold.

OUTSTANDING PRE-SOUTHWESTERN TRIAL ENTRIES

Overall Summary - Springlake and Dalhart: The Pre-Southwestern Russet Trials at Springlake and Dalhart included 10 entries, with Russet Norkotah as the check variety. Based on both trials, all 10 entries will be re-evaluated in the 2006 season.

PRE-SOUTHWESTERN REGIONAL COOPERATIVE RUSSET TRIAL

This russet trial consisted of 10 entries including the check variety Russet Norkotah. All seed was produced in Dalhart 2004.

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

- AOTX96208-1Ru and AOTX95265-4Ru were the outstanding entries based on general rating and best of trial (BOT) designations. AOTX95295-1Ru, AOTX95265-1Ru, and Russet Norkotah also received BOT designations (Table 6a and Table 6e).
- AOTX95269-1Ru and AOTX96208-1Ru had the highest total yield. AOTX96208-1Ru and AOTX95265-4Ru had the highest yield of marketable tubers, while AOTX95269-1Ru and AOTX96208-1Ru had the highest yield of 6-10 oz. tubers. AOTX95265-3Ru and AOTX95295-1Ru had the highest yield of over 10 oz. tubers (Table 6a).
- AOTX95265-4Ru and AOTX96216-1Ru had the highest yield of 4-6 oz. tubers, while Russet Norkotah and AOTX95295-3Ru had the highest yield of less than 4 oz. tubers (Table 6a).
- AOTX95269-1Ru had the highest yield of culls/no. 2 tubers (Table 6a).
- AOTX96208-1Ru, AOTX95265-3Ru, and AOTX95265-4Ru had the highest percentage of marketable yield (Table 6b).
- AOTX98137-1Ru and AOTX95295-3Ru had the highest percentage of 4-6 oz. tubers, while AOTX95265-1Ru and AOTX96208-1Ru had the highest percentage of 6-10 oz tubers (Table 6b).
- AOTX96265-3Ru and AOTX95295-1Ru had the highest percentage of 10-18 oz. tubers, while AOTX95295-3Ru and Russet Norkotah had the highest percentage of less than 4 oz. tubers. AOTX95269-1Ru had the highest percentage of culls/No.2 tubers (Table 6b).
- All of the clones had similar values for specific gravity (Table 6b).

- AOTX95269-1Ru had the highest average number of tubers per plant, while AOTX98137-1Ru had the lowest. AOTX96208-1Ru and AOTX95265-1Ru had the highest average tuber weight, while AOTX95295-3Ru had the lowest (Table 6c).
- AOTX96216-1Ru, AOTX95269-1Ru, and AOTX96208-1Ru were latest in maturity, while Russet Norkotah and AOTX95295-3Ru was the earliest (Table 6c).
- AOTX95265-3Ru, Russet Norkotah, AOTX95265-1Ru, and AOTX95265-4Ru received the highest general ratings at grading.

Comments on entries:

- AOTX95269-1Ru Oblong Russet, late, curved tubers, pointed, rough, small, GR²=3.1.
- AOTX96208-1Ru Oblong Russet, yield+, BOT, large tubers, Rhizoctonia, drop, GR=3.2.
- AOTX95265-4Ru Oblong Russet, some rot, feathering, BOT-, rough, GR=3.4.
- AOTX95295-1Ru Oblong Russet, rot, rough, uneven net, BOT++, pointed to bud end, GR=3.3.
- AOTX95265-1Ru Oblong Russet, rot+, Rhizoctonia, uniform, small tubers, some curved, BOT, GR=3.4.
- AOTX96216-1Ru Oblong Russet, some curved, pointed, feathering, large tubers, GR=3.1.
- Russet Norkotah Oblong Russet, strange net, 20% heat necrosis, BOT, pointed to apical end, GR=3.3.
- AOTX95265-3Ru Oblong Russet, very nice, BOT, ugly net on stem end, GR=3.5.
- AOTX95295-3Ru Oblong Russet, poor net, GR=3.1.
- AOTX98137-1Ru Oblong Russet, uniform, smooth, small, GR=3.1.

²GR= Average general rating at grading.

Summary:

Entries which appeared to stand out included: AOTX96208-1Ru, AOTX95295-1Ru, AOTX95265-3Ru, and AOTX95265-4Ru.

ADVANCED RUSSET SELECTION TRIAL

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

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

- ATX91137-1Ru, TXA549-1Ru, and Stampede Russet were the outstanding entries based on general rating and best of trial designations. ATX84378-1Ru and Russet Norkotah also received high general ratings (Table 7a and Table e).
- MWTX2609-4Ru, MWTX2609-2Ru, TXDH-99-1Ru, and ATX91137-1Ru had total yield of greater than 400 cwt/a. TXA549-1Ru and ATX91137-1Ru had the highest yield of marketable tubers, while ATX91137-1Ru and ATX9332-8Ru had the highest yield of 6-10 oz. tubers. ATX84706-2Ru had the highest yield of over 10 oz. tubers (Table 7a).
- TXA549-1Ru had the highest yield of 4-6 oz. tubers, while TXDH-99-1Ru and ATX91137-1Ru had the highest yield of less than 4 oz. tubers (Table 7a).
- MWTX2609-4Ru, MWTX2609-2Ru, TXDH-99-1Ru had the highest yield of culls/no. 2 tubers (Table 7a).
- ATX84706-2Ru, TXA549-1Ru, and Stampede Russet had marketable yield of greater than 80 percent, however ATX84706-2Ru had 26.1 percent of it yield in the over 18 oz. tuber category (Table 7b).
- TXA549-1Ru, AOTX98137-1Ru, and Stampede Russet had the highest percentage of 4-6 oz. tubers, while ATX9332-8Ru and ATX91137-1Ru had the highest percentage of 6-10 oz tubers (Table 7b).
- ATX84706-2Ru and ATX84378-1Ru had the highest percentage of greater than 10 oz. tubers, while AOTX95265-2ARu and ATX9202-1Ru had the highest percentage of less than 4 oz. tubers. MWTX2609-4Ru, MWTX2609-2Ru, TXDH-99-1Ru, TXNS223, TXNS278, and TXNS296 had over 30 percent culls/No.2 tubers (Table 7b).
- ATX9332-8Ru and TXA549-1Ru had the highest specific gravity (Table 7b).
- MWTX2609-4Ru, MWTX2609-2Ru, TXDH-99-1Ru had the highest average number of tubers per plant, while ATX84378-1Ru had the lowest. ATX84706-2Ru and ATX84378-1Ru had the highest average tuber weight, while AOTX95265-2ARu had the lowest (Table 7c).
- MWTX2609-4Ru, MWTX2609-2Ru, TXDH-99-1Ru, TXNS278, ATX9202-1Ru, TX223, and TXNS296 were the latest in maturity, while Russet Norkotah and AOTX98137-1Ru were the earliest in maturity (Table 7c).
- MWTX2609-4Ru, MWTX2609-2Ru, and TXDH-99-1Ru had the lightest net.(Table 7d)
- ATX91137-1Ru and Stampede Russet received the highest general rating at grading (Table 7d).

Comments on entries:

- MWTX2609-4Ru Long Russet, drop++, feathering, pointed to stem end, cone shaped, GR²=2.5.
- MWTX2609-2Ru Long Russet, heat sprouts, bad sprouting, drop, feathering, GR=2.7.

- TXDH-99-1Ru Long Russet, drop+++ , apical nipples, feathering, poor shape, GR=2.4.
- ATX91137-1Ru Oblong Russet, BOT++ , very nice, net not as good as Nork, GR= 4.2.
- TXA549-1Ru Oblong Russet, BOT, blocky, uniform, feathering, GR=3.5.
- TXNS278 Long Russet, poor shape, feathering, Rhizoctonia, rough, GR=3.2.
- Stampede Russet Oblong Russet, BOT+ , nice shape, very smooth, growth cracks, GR=4.4.
- AOTX98137-1Ru Long Russet, nice, drop, GR=3.3.
- ATX9332-8Ru Oblong Russet, ugly net, 10% heat necrosis, smooth, drop, GR=3.2.
- ATX9202-1Ru Oblong Russet, GR=3.1.
- TXNS223 Long Russet, poor shape, pointed to stem end, curved tubers, rough, GR=3.1.
- ATX84706-2Ru Oblong Russet, hollow heart resistant, parent, GR=3.3.
- Russet Norkotah Long Russet, apical nipples, some curved, GR=3.2.
- TXNS296 Long Russet, drop, variable shape, GR=2.9.
- AOTX95265-4Ru Oblong Russet, drop+ , nice interior, feathering, GR=3.2.
- AOTX95265-2ARu Oblong Russet, feathering, nice, blocky?, rough, GR=3.0.
- ATX84378-1Ru Long Russet, GR=3.4.

²GR= Average general rating at grading.

Summary:

Clearly the outstanding entries were ATX91137-1Ru, TXA549-1Ru, and Stampede Russet. TXNS278, Russet Norkotah, TXNS223, and ATX84378-1Ru also deserve mention.

OUTSTANDING TEXAS ADVANCED RUSSET SELECTIONS, 2005

Overall Summary - Springlake and Dalhart: The Texas Advanced Russet Selection Trials at Springlake included 14 entries, of these, 9 were also planted at Dalhart. Russet Norkotah was the check variety for both locations. Based on both trials, 9 entries will be re-evaluated in the 2006 season.

TEXAS ADVANCED RUSSET SELECTION TRIAL

The trial consisted of 13 entries, including the check variety Russet Norkotah. All seed was grown in Dalhart.

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

- The outstanding entries for this trial based on general rating and best of trial designations were AOTX96216-2Ru, AOTX96084-1Ru, ATX97195-1Ru, and ATX99049-1Ru (Table 8a).
- COTX00212-1Ru, AOTX96216-2Ru, and AOTX96084-1Ru had the highest total and marketable yields. COTX00212-1Ru had the highest yield of 4-6 oz. tubers (Table 8a).
- AOTX96084-1Ru had the highest yield of 6-10 oz. tubers, while AOTX96212-2Ru had the highest yield of over 10 oz. tubers (Table 8a).
- AOTX98183-2Ru and AOTX98202-1Ru had the highest yield of less than 4 oz. tubers, while AOTX98096-1Ru, COTX01440-1Ru, and ATX99049-1Ru had the highest yield of cull/No. 2 tubers (Table 8a).
- COTX00212-1Ru, AOTX96084-1Ru, and AOTX96212-3Ru had the highest percentage of marketable yield (Table 8b).
- COTX00212-1Ru had the highest percentage of 4-6 oz. tubers, while AOTX96084-1Ru, COTX00212-1Ru, and AOTX96212-3Ru had the highest percentage of 6-10 oz. tubers (Table 8b).
- AOTX96216-2Ru had the highest percentage of over 10 oz. tubers, while AOTX98202-1Ru and AOTX98183-2Ru had the highest percentage of less than 4 oz. tubers. AOTX98096-1Ru, ATX99049-1Ru, and COTX01440-1Ru had the highest percentage of culls/No.2 tubers (Table 8b).
- AOTX98183-2Ru and COTX00212-1Ru had the highest specific gravity (Table 8b).
- COTX00212-1Ru and AOTX98183-2Ru had the highest average number of tubers per plant, while AOTX96212-3Ru had the lowest. AOTX96216-2Ru, ATX99049-1Ru, and AOTX96212-3Ru had the highest average tuber weight, while AOTX98183-2Ru had the lowest (Table 8c).
- AOTX96216-3Ru and AOTX96212-2Ru had the lowest percentage of dead vines at harvest, while Russet Norkotah and COTX01440-1Ru had the highest (Table 8c).
- AOTX98183-2Ru had a slightly higher percentage of internal defects than the other entries (Table 8d).

- AOTX96084-1Ru, ATX97195-1Ru, ATX99049-1Ru, and ATX99092-1Ru had the highest general rating at grading.

Comments on entries:

- COTX00212-1Ru Long Russet, poor net, ugly net, rough, drop++, feathering, poor shape, GR²=2.7.
- AOTX96216-2Ru Long Russet, late, BOT-, poor rep, nice shape, GR=3.4.
- AOTX96084-1Ru Oblong Russet, nice, BOT+, small, heat sprouts, Blackspot bruise??, drop, 10% heat necrosis, GR=4.1.
- ATX97195-1Ru Oblong Russet, apical nipples, blocky, 10% heat necrosis, BOT, GR=3.4.
- ATX99049-1Ru Long Russet, BOT+, rough, drop, pointed to apical end, GR=3.4.
- AOTX96075-1Ru Oblong Russet, drop+, heat sprouts, small, Blackspot bruise??, some pointed to apical end, Rhizoctonia, 10% heat necrosis, GR=3.2.
- Russet Norkotah Oblong Russet, rot, Rhizoctonia, small, GR=3.2.
- COTX01440-1Ru Oblong Russet, smooth, ugly net, heat sprouts, drop++, GR=2.9.
- AOTX98183-2Ru Oblong Russet, uneven net, not as nice, drop+, blocky, light fine net, rough, mix?, GR=2.9.
- AOTX98096-1Ru Oblong Russet, drop++, GR=3.2.
- AOTX98202-1Ru Oblong Russet, drop++, BOT-, GR=3.1.
- ATX99092-1Ru Oblong Russet, drop, pointed to apical end, mix?, blocky, short tubers are OK, GR=3.5.
- AOTX96216-3Ru Long Russet, late, rough, some pointed to apical end, GR=3.3.

²GR= Average general rating at grading.

Summary:

Based on all factors, the outstanding entries in this trial were ATX99049-1Ru, AOTX96216-2RU, AOTX96084-1Ru, and ATX97195-1Ru.

OUTSTANDING TEXAS ADVANCED RED SELECTIONS, 2005

Overall Summary - Springlake and Dalhart: The Texas Advanced Red Selection Trials at Springlake had 11 entries and 17 entries at Dalhart. Red LaSoda was the check variety for both locations. Based on both trials, the following 17 entries will be re-evaluated in the 2006 season.

TEXAS ADVANCED RED SELECTION TRIAL

This trial consisted of 11 entries. With the exception of Red LaSoda, NDTX4271-1R, and NDTX4304-1R all seed came from Dalhart.

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

- The outstanding entries based on general rating and best of trial designations were NDTX731-1R, NDTX4304-1R, and BTX2332-1R. ATEX98452-9R and NDTX4828-2R also received high general ratings (Table 9a).
- NDTX4304-1R, NDTX731-1R, and ATEX98452-9R had the highest total yield, while NDTX4304-1R, NDTX731-1R and Red LaSoda had the highest marketable yield (Table 9a).
- BTX2332-1R and NDTX4304-1R had the highest yield of 4-6 oz. tubers, while NDTX731-1R had the highest yield of 6-10 oz. and 10-18 oz. (Table 9a).
- NDTX4304-1R and COTX94218-1R had the highest yield of less than 4 oz tubers (Table 9a).
- NDTX731-1R and Red LaSoda had the highest percentage of marketable yield, while BTX2332-1R and COTX00104-6R had the highest percentage of 4-6 oz. tubers (Table 9b).
- NDTX731-1R and Red LaSoda had the highest percentage of over 6 oz. tubers. (Table 9b).
- COTX94218-1R had the highest percentage of less than 4 oz. tubers (Table 9b).
- COTX00104-6R, NDTX4828-2R, NDTX4271-5R, and Red LaSoda had the highest specific gravity (Table 9b).
- NDTX4304-1R and COTX94218-1R had the highest average number of tuber per plant, while COTX00104-6R had the lowest. NDTX731-1R and Red LaSoda had the highest average tuber weight, while NDTX4847-7R had the lowest (Table 9c).
- NDTX4304-1R, Red LaSoda, NDTX4271-5R, and COTX00104-6R were the latest maturing, while ATEX98452-9R, NDTX4847-7R, and NDTX4828-2R were the earliest maturing (Table 9c).
- Red LaSoda and COTX94218-1R had the lightest red skin color (Table 9d).

Comments on entries:

- NDTX4304-1R Oblong Red, heat sprouts, growth cracks, BOT.
- NDTX731-1R Oblong Red, BOT+, rough, Rhizoctonia, susceptible to hollow heart.
- ATTX98452-9R Oblong Red, yield+, heat sprouts, BOT, nice smooth, nice interior, keep, road map, Rhizoctonia.
- Red LaSoda Oblong Red, heat sprouts.
- BTX2332-1R Oblong Red, nice shape, nice, keep, Rhizoctonia, BOT.
- NDTX4271-5R Oblong Red, yield+, heat sprouts, color+, very nice, buff skin, Rhizoctonia, BOT, nice interior.
- NDTX4847-7R Oblong Red, growth cracks, Rhizoctonia.
- NDTX4828-2R Oblong Red, yield+.
- COTX94218-1R Oblong Red, small, road map, drop?
- ATTX98453-6R Oblong Red, keep, smooth.
- COTX00104-6R Oblong Red, Rhizoctonia, road map.

Summary:

Outstanding entries included NDTX4304-1R, NDTX731-1R, ATTX98452-9R, BTX2332-1R, NDTX4828-2R, NDTX4271-5R, and ATTX98453-6R.

OUTSTANDING TEXAS ADVANCED SPECIALTY SELECTIONS, 2005

The Texas Advanced Specialty Selection Trials at Springlake included 24 entries and 41 at Dalhart. Based on both trials, 41 entries will be re-evaluated in the 2006 season.

TEXAS ADVANCED SPECIALTY SELECTION TRIAL

This trial consisted of 24 entries and the check variety Yukon Gold. With the exception of Yukon Gold, TX1523-1Ru/Y, Golden Sunburst, BTX1544-2W/Y, RZD95-6643, Courage, ATTX98465-1R/Y, and RZD94-2262 all seed came from Dalhart.

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

- The entries receiving the highest general ratings and best of trial designations were TX1523-1Ru/Y, BTX1544-2W/Y, and Yukon Gold, while NDTX4756-1R/Y, ATTX98514-1R/Y, and BTX1749-1W/Y received only best of trial designations (Table 10a and Table 10e).
- TX1523-1Ru/Y, Golden Sunburst, and BTX1544-2W/Y had the highest total yield, while TX1523-1Ru/Y, BTX1544-2W/Y, and Yukon Gold had the highest marketable yield (Table 10a)
- TX1523-1Ru/Y, RZD95-6643, and BTX1544-2W/Y had the highest yield of 4-6 oz. tubers, while TX1523-1Ru/Y, BTX1544-2W/Y, and Yukon Gold had the highest yield of 6-10 oz. tubers (Table 10a).
- BTX1544-2W/Y and Yukon Gold had the highest yield of 10-18 oz. tubers (Table 10a).
- ATTX98465-1R/Y, Courage, and Golden Sunburst had the highest yield of less than 4 oz. tubers, while ATTX98518-11Pu/Y had the highest yield of culls/No.2 tubers (Table 10a).
- Yukon Gold and ATTX88654-2Pu/Y had the highest percentage of marketable yield. ATTX88654-2Pu/Y and ATX88481-1Pu had the highest percentage of 4-6 oz. tubers (Table 10b).
- ATTX98497-1R-Y/Y and ATTX98465-1R/Y had the highest percentage of 6-10 oz. tubers, while Yukon Gold had the highest percentage of 10-18 oz. tubers (Table 10b).
- ATTX98497-1R-Y/Y and ATTX98465-1R/Y had the highest percentage of less than 4 oz. tubers, while ATTX98518-11Pu/Y had the highest percentage yield of culls/no.2 tubers (Table 10b).
- The highest specific gravities were recorded for COTX99045-2Ru/Y, NDTX4756-1R/Y, Courage, and Golden Sunburst (Table 10b).
- Golden Sunburst, Courage, and ATTX98465-1R/Y had the highest average tubers per plant, while ATX88481-1Pu had the lowest. Yukon Gold and BTX1544-2W/Y had the highest average tuber weight, while ATTX99321-1R/Y had the lowest (Table 10c).
- Golden Sunburst, RZD95-6643, and ATTX98514-3R/Y were the latest maturing clones, while ATTX88654-2Pu/Y was the earliest (Table 10c).
- ATTX98465-1R/Y, Golden Sunburst, and ATTX98497-1R-Y/Y had the darkest yellow flesh ratings. ATTX98465-8R/Y had deep eyes (Table 10d).

Comments on entries:

- TX1523-1Ru/Y Oblong Russet, nice, BOT++++, ¹FC-2.6.
- Golden Sunburst Oblong White, nice, pointed to stem end, chain tubers, heat sprouts, feathering, dumb bell, drop+, rough, FC-3.8.
- BTX1544-2W/Y Oblong White, BOT+++ , nice, FC-2.8.
- RZD95-6643 Oblong White, nice, deep nose, drop, feathering, white flesh, smooth, poor shape, poor internals, nice white internal, FC-1.0.

- Courage Oblong Red, poor shape, flat, nice flesh, buff, road map, stem end nipples, FC-3.5.
- ATTX98465-1R/Y Round Red, poor net, eye sprouts, silver scurf, road map, FC-4.4.
- Yukon Gold Oblong White, BOT+++ , feathering, FC-3.0.
- RZD94-2262 Oblong White, poor shape, second growth, drop+, long stolons, late, stem end nipples, smooth, stolon attachments, rough, road map, heat sprouts, FC-2.1.
- ATTX98444-3R/Y Oblong Red, variable size, drop, heat sprouts, chain tubers, LaSoda like shape, rough, nice, FC-3.1.
- ATTX98510-3R/Y Oblong Red, poor shape, heat sprouts, rough, small, drop, FC-3.0.
- NDTX4756-1R/Y Oblong Red, keep, BOT++ , poor flesh, zippered, nice, small tubers, nice shape, candidate, road map, FC-2.1.
- ATTX98516-1W/Y Oblong White, small, close set, keep, nice flesh, boiler, chain tubers, drop+++ , poor shape, heat sprouts, variable flesh color, 10% heat necrosis, FC-3.4.
- ATTX98514-1R/Y Oblong Red, poor flesh, BOT- , feathering, nice, heat sprouts, drop?, FC-2.6.
- BTX1749-1W/Y Oblong White, flat, drop?, nice skin, keep, nice, BOT-++ , ugly skin, FC-2.8.
- ATTX98518-11Pu/Y Oblong Purple, silver scurf, rough, heat sprouts, small, FC-3.3.
- ATTX98497-1R-Y/Y Oblong Red, Yellow, drop++?, dark yellow flesh, boiler, road map, red splash, heat sprouts, small tubers, FC-3.8.
- TX1674-1W/Y Oblong White, pointed, pointed nipples, drop++ , poor shape, flat, pointed to stem end, second growth, stem end nipples, FC-2.1.
- ATTX98509-3R/Y Oblong Red, poor net, buff, flat, nice smooth, FC-3.0.
- COTX99045-2Ru/Y Long Russet, keep, drop, drop++?, nice, FC-2.1.
- ATTX98500-3W/P calico Oblong P calico, second growth, late, heat sprouts, pointed, road map, FC-3.0.
- ATTX99321-1R/Y Round Red, yellow flesh boiler, drop?, poor shape, heat sprouts, nice shape, small, keep, FC-3.0.
- ATTX88654-2Pu/Y Oblong Purple, alligator hide, drop, road map, growth cracks, faded purple skin, pointed to stem end, keep, poor skin color, silver scurf, nice shape, FC-2.9.
- ATTX98514-3R/Y Oblong Red, drop+?, heat sprouts, late, nice, FC-3.5.
- ATX88481-1Pu Oblong Purple, drop+++ , heat sprouts, nice, FC- 1.0.

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

Summary:

The following entries will be re-evaluated in 2006: ATTX98516-1W/Y, ATTX98514-1R/Y, TX1674-1W/Y, ATTX98509-3R/Y, ATTX98321-1R/Y, ATTX98444-3R/Y, and ATTX98510-3R/Y. Based on all factors the outstanding entries for this trial were TX1523-1Ru/Y, BTX1544-2W/Y, BTX1749-1W/Y, and NDTX4756-1R/Y.

OUTSTANDING TEXAS ADVANCED CHIPPING SELECTION TRIAL ENTRIES, 2005

The Texas chipping trials at Springlake and Dalhart included 42 entries, with Atlantic as the check variety. Based on data from both locations, 13 entries will be advanced to the 2006 Chip Trials. The outstanding entries were: AOTX95309-3W, ATTX98466-5R/W-Y/R, AOTX95309-1W, PATX99P10-1Pu/R, and AOTX95309-2W.

TEXAS ADVANCED CHIPPING SELECTION

The Texas advanced chipping selection trial consisted of 20 entries, including the check variety Atlantic. Except for Atlantic all seed was from Dalhart.

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

- The outstanding entries for this trial based on general rating and best of trial designations was NDTX4930-5W, while ATTX8823-2W also received a best of trial designation (Table 11a)
- Atlantic, PORTX03PG22-1R/PY, and AOTX95309-1W had the highest total yield, while Atlantic, PORTX03PG22-1R/PY, and NDTX4930-2W had the highest marketable yield (Table 11a)
- Atlantic and AOTX95309-1W had the highest yield of 4-6 oz. tubers, while Atlantic and ATTX8823-2W had the highest yield of 6-10 oz. tubers (Table 11a).
- PORTX03PG22-1R/PY and NDTX4930-5W had the highest yield of 10-18 oz. tubers, while Atlantic and AOTX95309-2W had the highest yield of less than 4 oz. tubers (Table 11a).
- ATTX8823-2W and NDTX4930-5W had the highest percentage of marketable yield, while PATX99P10-1Pu/R and TX1673-2W had the highest percentage of 4-6 oz. tubers (Table 11b).
- ATTX8823-2W had the highest percent of 6-10 oz. tubers, while NDTX4930-5W and PORTX03PG22-1R/PY had the highest percent of 10-18 oz. tubers (Table 11b).

- NDTX6754C-1W, AOTX95309-2W, and AOTX95309-3W had the highest percentage of less than 4 oz. tubers (Table 11b).
- High specific gravities were recorded for MWTX4241-1W, PATX99P10-1Pu/R, AOTX96580-1W, and Atlantic (Table 11b).
- AOTX95309-1W had the highest average tubers per plant, while ATTX8823-2W had the lowest. NDTX4930-5W and ATTX8823-2W had the highest average tuber weight, while NDC6754-1W and TX1673-2W had the lowest (Table 11c).
- ATTX98497-1R-Y/Y, ATTX98466-5R/W-R, and PATX99P10-1Pu/R had the highest percentage of dead vines, while MWTX4241-1W and AOTX96580-1W had the lowest (Table 11c).
- Best of trial notations, based on chip evaluations, were given to AOTX95309-2W, ATTX98466-5R/W-R, COTX99238-2W, NDTX6773-1W, and PORTX03PG22-1R/PY (Table 11d).

Comments on entries:

- Atlantic Oblong White, nice, feathering, 10% heat necrosis.
- PORTX03PG22-1R/PY Oblong Red, road map, nice red flesh, drop++, smooth shape, red flesh color from eyes, yield +, small, stem end nipples.
- AOTX95309-1W Round White, heat sprouts, nice internal, candidate.
- NDTX4930-5W Oblong White, BOT, large tubers, candidate, rough.
- AOTX95309-2W Round White, heat sprouts, variable size, small, candidate, feathering, rough, 10% heat necrosis.
- PORTX03PG87-1R/YR Round Red, very light red on yellow flesh, rough, lenticels.
- NDTX028728-3W Round White, feathering.
- TX1673-2W Oblong White, poor shape, feathering, flat.
- ATX85404-8W Oblong White, heat necrosis, nice.
- NDTX6773-1W Round White, small, rough, drop?,
- ATTX98497-1 R-Y/Y Red Red, road map, red streak flesh, drop, silver scurf.
- COTX94016-2W Round White, feathering, rough.
- PATX99P10-1Pu/R Oblong Purple, road map, silver scurf, nice?, red color in flesh from eyes, smooth.

- MWTX4241-1W Round White, late, rough, eye sprouts, drop++, feathering.
- AOTX95309-3W Round White, heat sprouts, rough, green head, drop++, feathering.
- AOTX96580-1W Round White, rough, feathering, 10% heat necrosis, flat, drop?.
- ATTX98466-5 R/W-R Red Red, lenticels, red streak in vascular, keep, smooth.
- ATTX8823-2W Round White, nice, BOT++, candidate, nice, 10% stem attachment.
- NDTX6754C-1W Round White, mix?, skin 1 to 3.5 russet , small, poor internal, drop+?, buff.
- NDTX7571-5AW Round White, buff skin.

Summary:

The outstanding entries in this trial were AOTX95309-1W, NDTX4930-5W, AOTX95309-2W, and ATTX8823-2W.

Western Regional Cooperative Russet Trial Springlake Tables 1a, 1b, 1c, 1d, 1e, 1f and addendum

A92030-5
A92294-6
A93157-6LS
A95109-1
A95409-1
A96095-3
A96104-2
AO96160-3
AO96164-1
AOA95154-1
AOA95155-7
ATX91137-1Ru
CO94035-15RU
CO95086-8RU
CO95172-3RU
MWTX2609-2Ru
PA97B3-2
Ranger Russet
Russet Burbank
Russet Norkotah
Shepody
TXA549-1Ru

A92030-5
A92294-6
A93157-6LS
A95109-1
A95409-1
A96095-3
A96104-2
AO96160-3
AO96164-1
AOA95154-1
AOA95155-7
ATX91137-1Ru
CO94035-15RU
CO95086-8RU
CO95172-3RU
MWTX2609-2Ru
PA97B3-2
Ranger Russet
Russet Burbank
Russet Norkotah
Shepody
TXA549-1Ru

A92030-5
A92294-6
A93157-6LS
A95109-1
A95409-1
A96095-3
A96104-2
AO96160-3
AO96164-1
AOA95154-1
AOA95155-7
ATX91137-1Ru
CO94035-15RU
CO95086-8RU
CO95172-3RU
MWTX2609-2Ru
PA97B3-2
Ranger Russet
Russet Burbank
Russet Norkotah
Shepody
TXA549-1Ru
A92030-5
A92294-6
A93157-6LS
A95109-1
A95409-1
A96095-3
A96104-2
AO96160-3
AO96164-1
AOA95154-1
AOA95155-7
ATX91137-1Ru
CO94035-15RU
CO95086-8RU
CO95172-3RU
MWTX2609-2Ru

PA97B3-2
Ranger Russet
Russet Burbank
Russet Norkotah
Shepody

TXA549-1Ru

A92030-5
A92294-6
A93157-6LS
A95109-1
A95409-1
A96095-3
A96104-2
AO96160-3
AO96164-1
AOA95154-1
AOA95155-7
ATX91137-1Ru
CO94035-15RU
CO95086-8RU
CO95172-3RU
MWTX2609-2Ru
PA97B3-2
Ranger Russet
Russet Burbank
Russet Norkotah
Shepody

TXA549-1Ru

A92030-5
A92294-6
A93157-6LS
A95109-1
A95409-1
A96095-3
A96104-2
AO96160-3
AO96164-1
AOA95154-1
AOA95155-7
ATX91137-1Ru
CO94035-15RU
CO95086-8RU
CO95172-3RU
MWTX2609-2Ru
PA97B3-2
Ranger Russet
Russet Burbank
Russet Norkotah
Shepody
TXA549-1Ru

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

Location:

Springlake, Texas

Soil Type

Tivoli Fine Sand

Seed Source

Colorado, Oregon, Texas and Idaho

Date:

Planted	March 22, 2005	DAP
Vines Killed	July 25, 2005	123
Harvested	August 1, 2005	129

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:
230-25-25 # per acre

Irrigation:

Center Pivot

Seed Treatment:

Tops MZ Gaucho

Insecticide:

Dimethoate
Baythroid

Fungicides Applied:

Bravo Quadris

Herbicides Applied:

Dual, Sencor, Matrix, Roundup

Environmental Factors:

These trials were subjected to higher than normal precipitation in the third and fourth weeks of May, the first week in July, and the second and third weeks of August. Temperatures were lower than normal for the last week of April and the first week of May.

**Western Regional Cooperative Red/Specialty Trial Springlake Tables 2a, 2b, 2c, 2d,
2e, 2f and addendum**

Dark Red Norland

Red LaSoda

A96741-1R

A96741-2R

VC1075-1R

VC0967-2R/Y

VC1015-7R/Y

CO94183-1R/R

PA99P20-2

POR01PG20-12

All Blue

CO94165-3P/P

Yukon Gold

A95074-6

BTX1544-2W/Y

CO94157-2W/Y

NDA5507-3YF

NY126

VC1002-3W/Y

VC1009-1W/Y

VC1123-2W/Y

Dark Red Norland

Red LaSoda

A96741-1R

A96741-2R

VC1075-1R

VC0967-2R/Y

VC1015-7R/Y

CO94183-1R/R

PA99P20-2

POR01PG20-12

All Blue

CO94165-3P/P

Yukon Gold

A95074-6

BTX1544-2W/Y

CO94157-2W/Y

NDA5507-3YF

NY126

VC1002-3W/Y

VC1009-1W/Y

VC1123-2W/Y

Dark Red Norland

Red LaSoda

A96741-1R

A96741-2R

VC1075-1R

VC0967-2R/Y

VC1015-7R/Y

CO94183-1R/R

PA99P20-2

POR01PG20-12

All Blue

CO94165-3P/P

Yukon Gold

A95074-6

BTX1544-2W/Y

CO94157-2W/Y

NDA5507-3YF

NY126

VC1002-3W/Y

VC1009-1W/Y

VC1123-2W/Y

Dark Red Norland

Red LaSoda

A96741-1R

A96741-2R

VC1075-1R

VC0967-2R/Y

VC1015-7R/Y

CO94183-1R/R

PA99P20-2

POR01PG20-12

All Blue

CO94165-3P/P

Yukon Gold

A95074-6

BTX1544-2W/Y

CO94157-2W/Y

NDA5507-3YF

NY126

VC1002-3W/Y

VC1009-1W/Y

VC1123-2W/Y

Dark Red Norland

Red LaSoda

A96741-1R

A96741-2R

VC1075-1R

VC0967-2R/Y

VC1015-7R/Y

CO94183-1R/R

PA99P20-2

POR01PG20-12

All Blue

CO94165-3P/P

Yukon Gold

A95074-6

BTX1544-2W/Y

CO94157-2W/Y

NDA5507-3YF

NY126

VC1002-3W/Y

VC1009-1W/Y

VC1123-2W/Y

Dark Red Norland

Red LaSoda

A96741-1R

A96741-2R

VC1075-1R

VC0967-2R/Y

VC1015-7R/Y

CO94183-1R/R

PA99P20-2

POR01PG20-12

All Blue

CO94165-3P/P

Yukon Gold

A95074-6

BTX1544-2W/Y

CO94157-2W/Y

NDA5507-3YF

NY126

VC1002-3W/Y

VC1009-1W/Y

VC1123-2W/Y

**Southwestern Regional Cooperative Russet Trial Springlake Tables 3a, 3b, 3c, 3d,
3e, 3f and addendum**

TXDH-99-1Ru
MWTX2609-4Ru
AOTX95265-2ARu
AOTX95265-4Ru
AOTX98137-1Ru
Russet Norkotah
CO97137-1W
AC96052-1RU

TXDH-99-1Ru
MWTX2609-4Ru
AOTX95265-2ARu
AOTX95265-4Ru
AOTX98137-1Ru
Russet Norkotah
CO97137-1W
AC96052-1RU

TXDH-99-1Ru
MWTX2609-4Ru
AOTX95265-2ARu
AOTX95265-4Ru
AOTX98137-1Ru
Russet Norkotah
CO97137-1W
AC96052-1RU

TXDH-99-1Ru
MWTX2609-4Ru
AOTX95265-2ARu
AOTX95265-4Ru
AOTX98137-1Ru
Russet Norkotah
CO97137-1W
AC96052-1RU

TXDH-99-1Ru
MWTX2609-4Ru
AOTX95265-2ARu
AOTX95265-4Ru
AOTX98137-1Ru
Russet Norkotah
CO97137-1W
AC96052-1RU

TXDH-99-1Ru
MWTX2609-4Ru
AOTX95265-2ARu
AOTX95265-4Ru
AOTX98137-1Ru
Russet Norkotah
CO97137-1W
AC96052-1RU

**Southwestern Regional Cooperative Red Trial Springlake Tables 4a, 4b, 4c, 4d, 4e,
4f and addendum**

Dark Red Norland
Red LaSoda
CO97078-5R

Dark Red Norland
Red LaSoda
CO97078-5R

Dark Red Norland
Red LaSoda
CO97078-5R

Dark Red Norland
Red LaSoda
CO97078-5R

Dark Red Norland
Red LaSoda
CO97078-5R

Dark Red Norland
Red LaSoda
CO97078-5R

**Southwestern Regional Cooperative Specialty Trial Springlake Tables 5a, 5b, 5c, 5d,
5e, 5f and addendum**

CO97233-3R/Y
CO97232-2R/Y
CO97226-2R/R
Yukon Gold
CO97232-1R/Y
AC97521-1R/Y

CO97233-3R/Y
CO97232-2R/Y
CO97226-2R/R
Yukon Gold
CO97232-1R/Y
AC97521-1R/Y

CO97233-3R/Y
CO97232-2R/Y
CO97226-2R/R
Yukon Gold
CO97232-1R/Y
AC97521-1R/Y

CO97233-3R/Y
CO97232-2R/Y
CO97226-2R/R
Yukon Gold
CO97232-1R/Y
AC97521-1R/Y

CO97233-3R/Y
CO97232-2R/Y
CO97226-2R/R
Yukon Gold
CO97232-1R/Y
AC97521-1R/Y

CO97233-3R/Y
CO97232-2R/Y
CO97226-2R/R
Yukon Gold
CO97232-1R/Y
AC97521-1R/Y

**Pre-Southwestern Regional Cooperative Russet Trial Springlake Tables 6a, 6b, 6c,
6d, 6e, 6f and addendum**

AOTX95269-1Ru
AOTX96208-1Ru
AOTX95265-4Ru
AOTX95295-1Ru
AOTX95265-1Ru
AOTX96216-1Ru
Russet Norkotah
AOTX95265-3Ru
AOTX95295-3Ru
AOTX98137-1Ru

AOTX95269-1Ru
AOTX96208-1Ru
AOTX95265-4Ru
AOTX95295-1Ru
AOTX95265-1Ru
AOTX96216-1Ru
Russet Norkotah
AOTX95265-3Ru
AOTX95295-3Ru
AOTX98137-1Ru

AOTX95269-1Ru
AOTX96208-1Ru
AOTX95265-4Ru
AOTX95295-1Ru
AOTX95265-1Ru
AOTX96216-1Ru
Russet Norkotah
AOTX95265-3Ru
AOTX95295-3Ru
AOTX98137-1Ru

AOTX95269-1Ru
AOTX96208-1Ru
AOTX95265-4Ru
AOTX95295-1Ru
AOTX95265-1Ru
AOTX96216-1Ru
Russet Norkotah
AOTX95265-3Ru
AOTX95295-3Ru
AOTX98137-1Ru

AOTX95269-1Ru
AOTX96208-1Ru
AOTX95265-4Ru
AOTX95295-1Ru
AOTX95265-1Ru
AOTX96216-1Ru
Russet Norkotah
AOTX95265-3Ru
AOTX95295-3Ru
AOTX98137-1Ru

AOTX95269-1Ru
AOTX96208-1Ru
AOTX95265-4Ru
AOTX95295-1Ru
AOTX95265-1Ru
AOTX96216-1Ru
Russet Norkotah
AOTX95265-3Ru
AOTX95295-3Ru
AOTX98137-1Ru

**Advanced Russet Selection Trial Springlake Tables 7a, 7b, 7c, 7d, 7e, 7f and
addendum**

MWTX2609-4Ru
MWTX2609-2Ru
TXDH-99-1Ru
ATX91137-1Ru
TXA549-1Ru
TXNS278
Stampede Russet
AOTX98137-1Ru
ATX9332-8Ru
ATX9202-1Ru
TXNS223
ATX84706-2Ru
Russet Norkotah
TXNS296
AOTX95265-4Ru
AOTX95265-2ARu
ATX84378-1Ru

MWTX2609-4Ru
MWTX2609-2Ru
TXDH-99-1Ru
ATX91137-1Ru
TXA549-1Ru
TXNS278
Stampede Russet
AOTX98137-1Ru
ATX9332-8Ru
ATX9202-1Ru
TXNS223
ATX84706-2Ru
Russet Norkotah
TXNS296
AOTX95265-4Ru
AOTX95265-2ARu
ATX84378-1Ru

MWTX2609-4Ru
MWTX2609-2Ru
TXDH-99-1Ru
ATX91137-1Ru
TXA549-1Ru
TXNS278
Stampede Russet
AOTX98137-1Ru
ATX9332-8Ru
ATX9202-1Ru
TXNS223
ATX84706-2Ru
Russet Norkotah
TXNS296
AOTX95265-4Ru
AOTX95265-2ARu
ATX84378-1Ru

MWTX2609-4Ru
MWTX2609-2Ru
TXDH-99-1Ru
ATX91137-1Ru
TXA549-1Ru
TXNS278
Stampede Russet
AOTX98137-1Ru
ATX9332-8Ru
ATX9202-1Ru
TXNS223
ATX84706-2Ru
Russet Norkotah
TXNS296
AOTX95265-4Ru
AOTX95265-2ARu
ATX84378-1Ru

MWTX2609-4Ru
MWTX2609-2Ru
TXDH-99-1Ru
ATX91137-1Ru
TXA549-1Ru
TXNS278
Stampede Russet
AOTX98137-1Ru
ATX9332-8Ru
ATX9202-1Ru
TXNS223
ATX84706-2Ru
Russet Norkotah
TXNS296
AOTX95265-4Ru
AOTX95265-2ARu
ATX84378-1Ru

MWTX2609-4Ru
MWTX2609-2Ru
TXDH-99-1Ru
ATX91137-1Ru
TXA549-1Ru
TXNS278
Stampede Russet
AOTX98137-1Ru
ATX9332-8Ru
ATX9202-1Ru
TXNS223
ATX84706-2Ru
Russet Norkotah
TXNS296
AOTX95265-4Ru
AOTX95265-2ARu
ATX84378-1Ru

**Texas Advanced Russet Selection Trial Springlake Tables 8a, 8b, 8c, 8d, 8e, 8f and
addendum**

COTX00212-1Ru
AOTX96216-2Ru
AOTX96084-1Ru
ATX97195-1Ru
ATX99049-1Ru
AOTX96075-1Ru
Russet Norkotah
COTX01440-1Ru
AOTX98183-2Ru
AOTX98096-1Ru
AOTX98202-1Ru
ATX99092-1Ru
AOTX96216-3Ru

COTX00212-1Ru
AOTX96216-2Ru
AOTX96084-1Ru
ATX97195-1Ru
ATX99049-1Ru
AOTX96075-1Ru
Russet Norkotah
COTX01440-1Ru
AOTX98183-2Ru
AOTX98096-1Ru
AOTX98202-1Ru
ATX99092-1Ru
AOTX96216-3Ru

COTX00212-1Ru
AOTX96216-2Ru
AOTX96084-1Ru
ATX97195-1Ru
ATX99049-1Ru
AOTX96075-1Ru
Russet Norkotah
COTX01440-1Ru
AOTX98183-2Ru
AOTX98096-1Ru
AOTX98202-1Ru
ATX99092-1Ru
AOTX96216-3Ru

COTX00212-1Ru
AOTX96216-2Ru
AOTX96084-1Ru
ATX97195-1Ru
ATX99049-1Ru
AOTX96075-1Ru
Russet Norkotah
COTX01440-1Ru
AOTX98183-2Ru
AOTX98096-1Ru
AOTX98202-1Ru
ATX99092-1Ru
AOTX96216-3Ru

COTX00212-1Ru
AOTX96216-2Ru
AOTX96084-1Ru
ATX97195-1Ru
ATX99049-1Ru
AOTX96075-1Ru
Russet Norkotah
COTX01440-1Ru
AOTX98183-2Ru
AOTX98096-1Ru
AOTX98202-1Ru
ATX99092-1Ru
AOTX96216-3Ru

COTX00212-1Ru
AOTX96216-2Ru
AOTX96084-1Ru
ATX97195-1Ru
ATX99049-1Ru
AOTX96075-1Ru
Russet Norkotah
COTX01440-1Ru
AOTX98183-2Ru
AOTX98096-1Ru
AOTX98202-1Ru
ATX99092-1Ru
AOTX96216-3Ru

**Texas Advanced Red Selection Trial Springlake Tables 9a, 9b, 9c, 9d, 9e, 9f and
addendum**

NDTX4304-1R
NDTX731-1R
ATTX98452-9R
Red LaSoda
BTX2332-1R
NDTX4271-5R
NDTX4847-7R
NDTX4828-2R
COTX94218-1R
ATTX98453-6R
COTX00104-6R

NDTX4304-1R
NDTX731-1R
ATTX98452-9R
Red LaSoda
BTX2332-1R
NDTX4271-5R
NDTX4847-7R
NDTX4828-2R
COTX94218-1R
ATTX98453-6R
COTX00104-6R

NDTX4304-1R
NDTX731-1R
ATX98452-9R
Red LaSoda
BTX2332-1R
NDTX4271-5R
NDTX4847-7R
NDTX4828-2R
COTX94218-1R
ATX98453-6R
COTX00104-6R

NDTX4304-1R
NDTX731-1R
ATTX98452-9R
Red LaSoda
BTX2332-1R
NDTX4271-5R
NDTX4847-7R
NDTX4828-2R
COTX94218-1R
ATTX98453-6R
COTX00104-6R

NDTX4304-1R
NDTX731-1R
ATX98452-9R
Red LaSoda
BTX2332-1R
NDTX4271-5R
NDTX4847-7R
NDTX4828-2R
COTX94218-1R
ATX98453-6R
COTX00104-6R

NDTX4304-1R
NDTX731-1R
ATTX98452-9R
Red LaSoda
BTX2332-1R
NDTX4271-5R
NDTX4847-7R
NDTX4828-2R
COTX94218-1R
ATTX98453-6R
COTX00104-6R

**Texas Advanced Specialty Selection Trial Springlake Tables 10a, 10b, 10c, 10d, 10e,
10f and addendum**

TX1523-1Ru/Y
Golden Sunburst
BTX1544-2W/Y
RZD95-6643
Courage
ATTX98465-1R/Y
Yukon Gold
RZD94-2262
ATTX98444-3R/Y
ATTX98510-3R/Y
NDTX4756-1R/Y
ATTX98516-1W/Y
ATTX98514-1R/Y
BTX1749-1W/Y
ATTX98518-11Pu/Y
ATTX98497-1R-Y/Y
TX1674-1W/Y
ATTX98509-3R/Y
COTX99045-2Ru/Y
ATTX98500-3Wpuspl
ATTX99321-1R/Y
ATTX88654-2Pu/Y
ATTX98514-3R/Y
ATX88481-1Pu

TX1523-1Ru/Y
Golden Sunburst
BTX1544-2W/Y
RZD95-6643
Courage
ATTX98465-1R/Y
Yukon Gold
RZD94-2262
ATTX98444-3R/Y
ATTX98510-3R/Y
NDTX4756-1R/Y
ATTX98516-1W/Y
ATTX98514-1R/Y
BTX1749-1W/Y
ATTX98518-11Pu/Y
ATTX98497-1R-Y/Y
TX1674-1W/Y
ATTX98509-3R/Y
COTX99045-2Ru/Y
ATTX98500-3Wpuspl
ATTX99321-1R/Y
ATTX88654-2Pu/Y
ATTX98514-3R/Y
ATX88481-1Pu

TX1523-1Ru/Y
Golden Sunburst
BTX1544-2W/Y
RZD95-6643
Courage
ATTX98465-1R/Y
Yukon Gold
RZD94-2262
ATTX98444-3R/Y
ATTX98510-3R/Y
NDTX4756-1R/Y
ATTX98516-1W/Y
ATTX98514-1R/Y
BTX1749-1W/Y
ATTX98518-11Pu/Y
ATTX98497-1R-Y/Y
TX1674-1W/Y
ATTX98509-3R/Y
COTX99045-2Ru/Y
ATTX98500-3Wpuspl
ATTX99321-1R/Y
ATTX88654-2Pu/Y
ATTX98514-3R/Y
ATX88481-1Pu

TX1523-1Ru/Y
Golden Sunburst
BTX1544-2W/Y
RZD95-6643
Courage
ATTX98465-1R/Y
Yukon Gold
RZD94-2262
ATTX98444-3R/Y
ATTX98510-3R/Y
NDTX4756-1R/Y
ATTX98516-1W/Y
ATTX98514-1R/Y
BTX1749-1W/Y
ATTX98518-11Pu/Y
ATTX98497-1R-Y/Y
TX1674-1W/Y
ATTX98509-3R/Y
COTX99045-2Ru/Y
ATTX98500-3Wpuspl
ATTX99321-1R/Y
ATTX88654-2Pu/Y
ATTX98514-3R/Y
ATX88481-1Pu

TX1523-1Ru/Y
Golden Sunburst
BTX1544-2W/Y
RZD95-6643
Courage
ATTX98465-1R/Y
Yukon Gold
RZD94-2262
ATTX98444-3R/Y
ATTX98510-3R/Y
NDTX4756-1R/Y
ATTX98516-1W/Y
ATTX98514-1R/Y
BTX1749-1W/Y
ATTX98518-11Pu/Y
ATTX98497-1R-Y/Y
TX1674-1W/Y
ATTX98509-3R/Y
COTX99045-2Ru/Y
ATTX98500-3Wpuspl
ATTX99321-1R/Y
ATTX88654-2Pu/Y
ATTX98514-3R/Y
ATX88481-1Pu

TX1523-1Ru/Y
Golden Sunburst
BTX1544-2W/Y
RZD95-6643
Courage
ATTX98465-1R/Y
Yukon Gold
RZD94-2262
ATTX98444-3R/Y
ATTX98510-3R/Y
NDTX4756-1R/Y
ATTX98516-1W/Y
ATTX98514-1R/Y
BTX1749-1W/Y
ATTX98518-11Pu/Y
ATTX98497-1R-Y/Y
TX1674-1W/Y
ATTX98509-3R/Y
COTX99045-2Ru/Y
ATTX98500-3Wpuspl
ATTX99321-1R/Y
ATTX88654-2Pu/Y
ATTX98514-3R/Y
ATX88481-1Pu

**Texas Advanced Chipping Selection Trial Springlake Tables 11a, 11b, 11c, 11d, 11e,
11f, 11g and addendum**

Atlantic

PORTX03PG22-1R/PY

AOTX95309-1W

NDTX4930-5W

AOTX95309-2W

PORTX03PG87-1R/YR

NDTX028728-3W

TX1673-2W

ATX85404-8W

NDTX6773-1W

ATTX98497-1 R-Y/Y

COTX94016-2W

PATX99P10-1Pu/R

MWTX4241-1W

AOTX95309-3W

AOTX96580-1W

ATTX98466-5 R/W-R

ATTX8823-2W

NDTX6754C-1W

NDTX7571-5AW

Atlantic

PORTX03PG22-1R/PY
AOTX95309-1W
NDTX4930-5W
AOTX95309-2W
PORTX03PG87-1R/YR
NDTX028728-3W
TX1673-2W
ATX85404-8W
NDTX6773-1W
ATTX98497-1 R-Y/Y
COTX94016-2W
PATX99P10-1Pu/R
MWTX4241-1W
AOTX95309-3W
AOTX96580-1W
ATTX98466-5 R/W-R
ATTX8823-2W
NDTX6754C-1W
NDTX7571-5AW

Atlantic

PORTX03PG22-1R/PY
AOTX95309-1W
NDTX4930-5W
AOTX95309-2W
PORTX03PG87-1R/YR
NDTX028728-3W
TX1673-2W
ATX85404-8W
NDTX6773-1W
ATTX98497-1 R-Y/Y
COTX94016-2W
PATX99P10-1Pu/R
MWTX4241-1W
AOTX95309-3W
AOTX96580-1W
ATTX98466-5 R/W-R
ATTX8823-2W
NDTX6754C-1W
NDTX7571-5AW

Atlantic

PORTX03PG22-1R/PY

AOTX95309-1W

NDTX4930-5W

AOTX95309-2W

PORTX03PG87-1R/YR

NDTX028728-3W

TX1673-2W

ATX85404-8W

NDTX6773-1W

ATTX98497-1 R-Y/Y

COTX94016-2W

PATX99P10-1Pu/R

MWTX4241-1W

AOTX95309-3W

AOTX96580-1W

ATTX98466-5 R/W-R

ATTX8823-2W

NDTX6754C-1W

NDTX7571-5AW

Atlantic

PORTX03PG22-1R/PY
AOTX95309-1W
NDTX4930-5W
AOTX95309-2W
PORTX03PG87-1R/YR
NDTX028728-3W
TX1673-2W
ATX85404-8W
NDTX6773-1W
ATTX98497-1 R-Y/Y
COTX94016-2W
PATX99P10-1Pu/R
MWTX4241-1W
AOTX95309-3W
AOTX96580-1W
ATTX98466-5 R/W-R
ATTX8823-2W
NDTX6754C-1W
NDTX7571-5AW

Atlantic

PORTX03PG22-1R/PY
AOTX95309-1W
NDTX4930-5W
AOTX95309-2W
PORTX03PG87-1R/YR
NDTX028728-3W
TX1673-2W
ATX85404-8W
NDTX6773-1W
ATTX98497-1 R-Y/Y
COTX94016-2W
PATX99P10-1Pu/R
MWTX4241-1W
AOTX95309-3W
AOTX96580-1W
ATTX98466-5 R/W-R
ATTX8823-2W
NDTX6754C-1W
NDTX7571-5AW

Atlantic

PORTX03PG22-1R/PY

AOTX95309-1W

NDTX4930-5W

AOTX95309-2W

PORTX03PG87-1R/YR

NDTX028728-3W

TX1673-2W

ATX85404-8W

NDTX6773-1W

ATTX98497-1 R-Y/Y

COTX94016-2W

PATX99P10-1Pu/R

MWTX4241-1W

AOTX95309-3W

AOTX96580-1W

ATTX98466-5 R/W-R

ATTX8823-2W

NDTX6754C-1W

NDTX7571-5AW

2005 Dalhart Trials

Summary of growing conditions:

These trials were planted 30 miles south of Dalhart. Daily high and low temperatures were normal throughout the growing season. Precipitation was lower than normal for May, the first, third, and fourth weeks of June, July and the first week of August (Figure 5).

Trials conducted:

- Western Regional Chipping
- Southwestern Regional Chipping
- Pre-Southwestern Regional Russets
- Advanced Russet Selection
- Texas Advanced Chipping Selection
- 2004 Chipping Selection Trial
- Texas Advanced Russet Selection
- 2004 Russet Selection Trial
- Texas Advanced Red Selection
- 2004 Red Selection Trial
- Texas Advanced Specialty Selection
- 2004 Specialty Selection Trial
- 2005 Nursery

WESTERN REGIONAL CHIPPING TRIAL

This trial consisted of 9 entries, including Atlantic and Chipeta as check varieties.

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

- CO96141-4W had the highest yield in all categories. COA96142-3C had the highest yield of over 18 oz. tubers (Table 1a).
- CO96141-4W and COA96141-2C had the highest marketable yield (Table 1a)

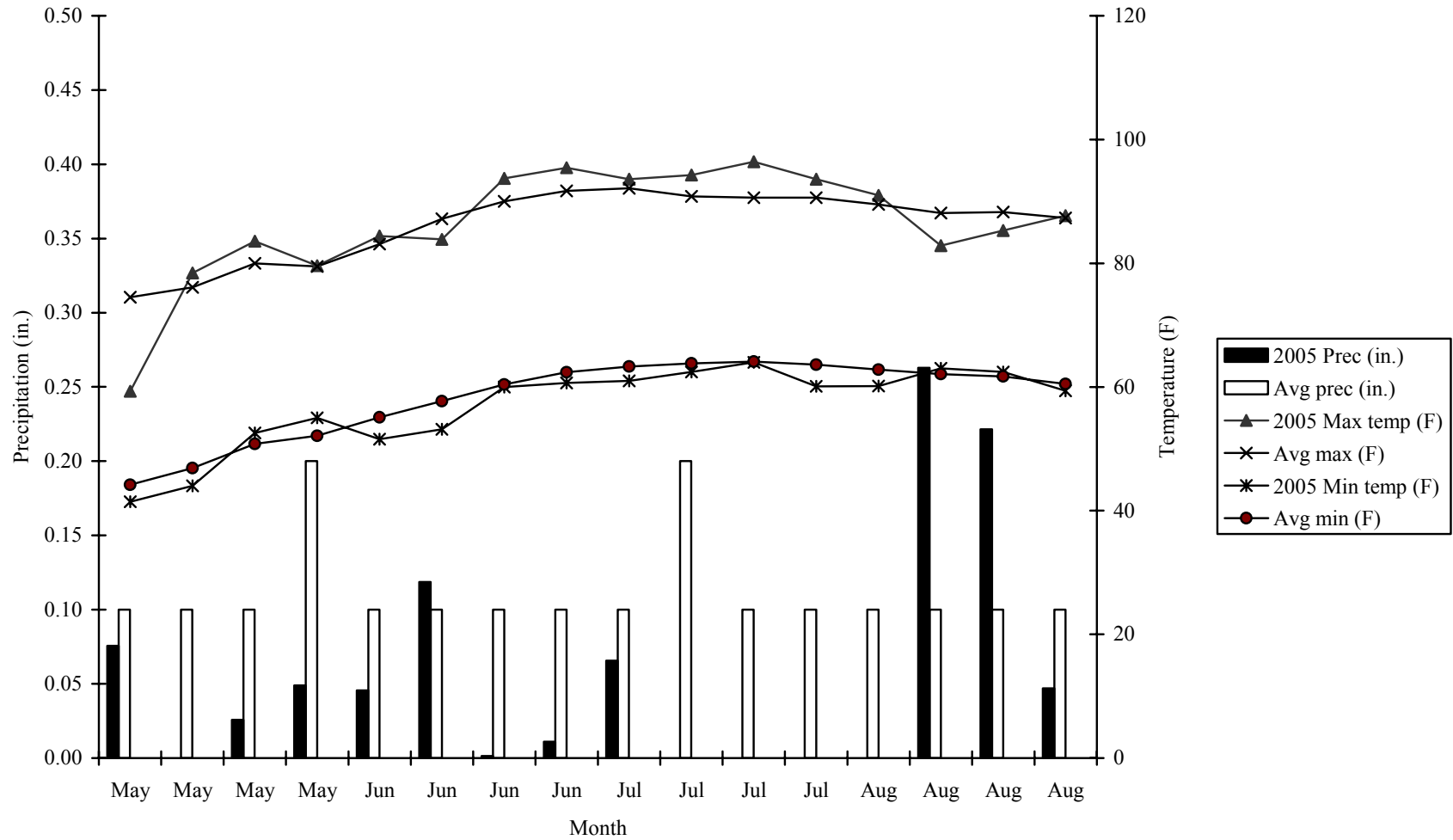


Figure 5. Weekly minimum/maximum temperatures and precipitation for the 2005-growing season at Dalhart, Texas compared to the average minimum/maximum temperatures and precipitation (1963-2005).

- Chipeta had the highest yield of less than 4 oz. tubers, while A91814-5 had the highest yield of culls/No. 2 tubers (Table 1a).
- Atlantic and COA96141-2C had the highest percentage of marketable yield, while Chipeta and Ivory Crisp had the highest percentage of 4-6 oz. tubers (Table 1b).
- COA96141-2C and CO95051-7W had the highest percentage of 6-10 oz. tubers, while Ivory Crisp had the highest percentage of 10-18 oz. tubers. A91814-5 and CO95051-7W had the highest percentage of less than 4 oz. tubers (Table 1b).
- High specific gravities were recorded for Atlantic and A91814-5 (Table 1b).
- A91814-5 and COA96141-2C had the most average tubers per plant, while COA96142-3C and CO96141-4W had the greatest average tuber weight (Table 1c).
- Chipeta and B0766-3T were the latest maturing entries, while CO96141-4W was the earliest (Table 1c).
- A high percentage of hollow heart was noted for COA96142-3C and Atlantic (Table 1d).

Comments on entries:

- CO96141-4W Oblong White
- COA96141-2C Round White, good
- COA96142-3C Round White, 3¹ Rhizoctonia, lunker, oversize.
- B0766-3T Oblong White
- Atlantic Round Buff
- Chipeta Round White, 40%u
- Ivory Crisp Oblong White
- A91814-5 Oblong White
- CO95051-7W Round White

¹Rhizoctonia rating 1=severe, 5=none

Summary:

The top performing entries based on all factors excluding the chipping results were CO96141-4W and COA96141-2C.

SOUTHWESTERN REGIONAL CHIPPING TRIAL

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

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

- AC97097-14W and CO97065-7W had the highest marketable yield, while AC97097-14W and Chipeta had the highest yield of less than 4 oz. tubers. (Table 2a).
- All of the entries had acceptable percentages of total marketable tubers, while Chipeta had the highest percentage of less than 4oz. tubers (Table 2b).
- Atlantic had the highest specific gravity (Table 2b).
- AC97097-14W had the highest average tubers per plant and the lowest average tuber weight, while Atlantic had the higher average tuber weights (Table 2c).
- Chipeta was the latest maturing, while CO97065-7W was the earliest (Table 2c).
- AC97097-14W was longer than the other entries (Table 2d).
- Atlantic and AC97097-14W had the highest percentage of hollow heart (Table 2d).

Comments on entries:

- AC97097-14W Oblong White, good, nice.
- CO97065-7W Round White, feathering.
- Atlantic Round Buff
- Chipeta Round White, 40%u.
- CO97043-14W Round White, deep nose, nice, very good.

Summary:

The performance of the entries AC97097-14W and CO97065-7W were better than the check varieties.

PRE-SOUTHWESTERN REGIONAL RUSSET TRIAL

This trial consisted of 10 entries, including the check variety Russet Norkotah.

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

- The outstanding entries for this trial based on general rating and best of trial designations were AOTX95265-3Ru, AOTX98137-1Ru, AOTX95265-4Ru, Russet Norkotah, and AOTX95265-1Ru. AOTX96216-1Ru also received of best of trial designation (Table 3a).
- AOTX95265-3Ru and AOTX95265-4Ru had the highest total yield, while AOTX98137-1Ru, AOTX95269-1Ru, and Russet Norkotah had the highest yield of marketable tubers (Table 3a).
- AOTX98137-1Ru and Russet Norkotah had the highest yield of 4-6 oz. tubers, while Russet Norkotah and AOTX95295-3Ru had the highest yield of 6-10 oz. tubers. AOTX98137-1Ru, AOTX95269-1Ru, and AOTX95265-1Ru had the highest yield of 10-18 oz. tubers, while AOTX95265-3Ru and AOTX95265-4Ru had the highest yield of over 18 oz. tubers (Table 3a).
- Russet Norkotah and AOTX95295-3Ru had the highest percentage total yield, while AOTX95295-3Ru and Russet Norkotah had the highest percentage of 6-10oz. tubers. AOTX95265-1Ru and AOTX98137-1Ru had the highest percentage of 10-18 oz. tubers, while AOTX95265-3Ru, AOTX95265-4Ru, and AOTX96208-1Ru had the highest percentage of over 18 oz. tubers. Two of these entries, AOTX95265-4Ru and AOTX96208-1Ru, had over 55% of their yield in the over 18oz category. All of the entries had over 26% of their total yield in the over 18oz category (Table 3b).
- All of the entries had satisfactory specific gravity, with AOTX95265-3Ru having the highest (Table 3b)
- AOTX95295-3Ru had the highest average number of tubers per plant, while AOTX95265-3Ru had the highest average tuber weight (Table 3c).
- AOTX95269-2Ru and AOTX96208-1Ru were the latest maturing entries, while AOTX98137-1Ru, Russet Norkotah, and AOTX95295-3Ru were the earliest maturing entries (Table 3c).
- AOTX95265-3Ru, AOTX96208-1Ru, AOTX95269-1Ru, and AOTX95265-1Ru had high percentages of hollow heart (Table 3d).

Comments on entries:

- AOTX95265-3Ru Long Russet, longer than Norkotah, BOT+++ , too long?, ok, 40%u, 20%u, nice,✓✓
- AOTX95265-4Ru Long Russet, longest clone BOT+++ , nice, 40%u, 80%u, nice, ✓✓✓✓✓✓
- AOTX96208-1Ru Oblong Russet, variable size, knobs, drop?+++ , very long, some curved and pointed, 20%u, ✓✓✓✓✓✓✓✓
- AOTX98137-1Ru Oblong Russet, ok, but drop?, keep, ok, small short tubers, 20%u, nice, BOT for interior, yield+, BOT.
- AOTX95269-1Ru Long Russet, pointed, curved, drop, keep, ok, shape?, 60%u, 20%u, ✓✓✓✓✓✓✓✓
- Russet Norkotah Oblong-Long Russet, BOT++-, small, 3Rhizoc, 20%u, nice, BOT for interior, nice interior.

- AOTX95265-1Ru Oblong-Long Russet, longer than Nork, BOT++, some curved and pointed, 40%u, 40%u, 20%u, ✓✓✓✓
- AOTX95295-3Ru Oblong Russet , smaller, drop?, poor rep, smaller than 265-3, good shape, few tubers, nice shape, 20%u, ✓
- AOTX95295-1Ru Long Russet, pointed, curved, drop?++, pointed to apical end, longer than Nork, ok, 20%u, 2rhizoc, 1rhizoc, 3rhizoc.
- AOTX96216-1Ru Oblong Russet, nice, keep, BOT-, curved, drop, so so, drop?, 4Rhizoc, 20%u, ugly, rough, poor shape, 4Rhizoc, 40%u, nice shape, ✓✓✓✓✓

Summary:

Based on overall performance AOTX95265-3Ru is ranked highest. AOTX95265-4Ru, AOTX98137-1Ru, Russet Norkotah, and AOTX95265-1Ru also performed well. AOTX96208-1Ru, AOTX95295-1Ru, and AOTX96216-1Ru performed at a lower level.

ADVANCED SELECTION RUSSET TRIAL

This trial consisted of 18 entries, including the check variety Russet Norkotah. All seed, except Russet Norkotah, was from Colorado.

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

- The outstanding entries for this trial based on general rating and best of trial designations were TXA549-1Ru, AOTX98137-1Ru, Russet Norkotah, ATX91137-1Ru, and ATX9332-8Ru. AOTX95265-4Ru, TXNS296, AOTX95265-2ARu, and TXNS278 also had a high general rating, while ATX84378-1Ru and TXNS223 received best of trial designations (Table 4a and Table 4e).
- TXA549-1Ru, AOTX98137-1Ru, and MWTX2609-4Ru had the highest total yield, while AOTX98137-1Ru, Russet Norkotah, TXDH-99-1Ru, and Stampede Russet had the highest total marketable yield. While AOTX98137-1Ru and Stampede Russet had the highest yield of 4-6 oz. tubers (Table 4a).
- Stampede Russet and AOTX98137-1Ru had the highest yield of 6-10, while ATX9202-1Ru, TXDH-99-1Ru, and Russet Norkotah had the highest yield of 10-18 oz. tubers. ATX84706-2Ru and TX549-1Ru had the highest yield of over 18 oz. tubers (Table 4a).
- ATX84378-1Ru, MWTX2609-2Ru, and MWTX2609-4Ru had the highest yield of culls/No. 2 tubers (Table 4a).
- ATX9202-1Ru and Stampede Russet had the highest percent total marketable yield while Stampede and ATX9332-8Ru had the highest percentage of 6-10oz. tubers. ATX9202-1Ru, TXDH-99-1Ru, and Russet Norkotah had the highest percentage of 10-18 oz. tubers, while ATX84706-2Ru, TXNS296, and

ATX84378-1Ru had the highest percentage of over 18 oz. tubers. Sixteen of the entries had over 20% of their yield in the over 18 oz category - ATX84706-2Ru had over 57% of its total yield in the over 18 oz category (Table 4b).

- Stampede Russet had the highest percentage of less than 4 oz. tubers. ATX84378-1Ru had the highest percentage of culls/No. 2 tubers (Table 4b).
- All of the entries had satisfactory specific gravity, with ATX9332-8Ru had the highest (Table 4b)
- Stampede Russet and AOTX98137-1Ru had the highest average number of tubers per plant, while ATX84378-1Ru had the lowest average number of tubers per plant. ATX84706-2Ru and ATX84378-1Ru had the highest average tuber weight, while Stampede Russet had the lowest (Table 4c).
- MWTX2609-2Ru, MWTX2609-4Ru, TXDH-99-1Ru, AOTX95265-4Ru, and ATX9332-8Ru were the latest maturing entries, while Russet Norkotah was the earliest (Table 4c).
- ATX84706-2Ru, TXA549-1Ru, Stampede Russet, and ATX84378-6Ru had the shortest tubers. MWTX2609-2Ru, MWTX2609-4Ru, TXA549-1Ru, and ATX84706-2Ru had the lightest russet skin color (Table 4d).
- ATX84706-2Ru, AOTX95265-4Ru, TXNS296, and ATX992230-1Ru had the highest percentages of hollow heart, while AOTX95265-4Ru and TXNS278 had the highest percentages of vascular discoloration (Table 4d).

Comments on entries:

- TXA549-1Ru Oblong Russet, blocky, drop++++, blocky, 10%u, 20%u, 3rhizoc, BOT for internal, 20%u, thick tubers, ✓✓✓✓
- AOTX98137-1Ru Long Russet, small, BOT-, curved, different, drop?, nice, so so, 10%u, nice shape, very nice interior, 30%u, BOT for shape, ✓
- MWTX2609-4Ru Long Russet, pointed, rough, high yield, long, light net, poor shape, 10%u, BOT- for interior, 10%u, nice interior.
- ATX84706-2Ru Long Russet, oversize, lunker, blocky, 40%u, rough, 3Rhizoc.
- MWTX2609-2Ru Long Russet, not as long as -4, poor shape, drop+++ , rough, better rep, 10%u, 10%u, feathering.
- Russet Norkotah Long Russet, smaller, BOT-++, so so 3rhizoc, 10%u, BOT for interior, BOT++, 3rhizoc, 10%u, 4rhizoc, heavy net, ✓✓
- TXDH-99-1Ru Long Russet, rough, pointed, not bad, drop+++ , 10%u, 10%u, 2.5rhizoc, 10%u, 3rhizoc, 30%u.
- AOTX95265-4Ru Long Russet, pointed, curved, BOT, nice, 10%u, 4Rhizoc.

- Stampede Russet Oblong Russet, blocky, some curved, small, poor yield, 10%u, BOT for internal, 20%u, BOT+, 2.5rhizoc, nice shape and internal, ✓✓✓✓✓✓★
- ATX91137-1Ru Oblong Russet, short, blocky, BOT-, nice, 4Rhizoc, 10%u, BOT++, 3.5Rhizoc, 20%u, nice internal, 20%u, ✓✓✓✓✓✓✓✓✓✓★ ★ ★ ★ ★
- TXNS296 Long Russet, some curved, pointed, OK, pointed to stem end, 3.5rhizoc, 40%u, 2.5rhizoc, 3.5rhizoc, 20%z, 20%z.
- AOTX95265-2ARu Long Russet, some curved, OK, nice, so so, nice, 3 Rhizoctonia, 50%u, 3 Rhizoctonia, 40%u, 3 Rhizoctonia, 10%u, 3 Rhizoctonia, pointed, heavy net, 10%u.
- ATX9202-1Ru Long Russet, drop+++ , knobs++ , so so, 10%u, 10%u, nice, 50%u .
- ATX84378-1Ru Long Russet growth cracks, rough, drop, knobs, large fat tubers BOT, BOT for flesh, , 2.5 Rhizoctonia, 10%u.
- TXNS278 Long Russet , yield, nice, variable size, 10%u, 50%u, BOT for appearance, nice, some curved, nice shape, ✓
- TXNS223 Long Russet, BOT, curved, so so, nice, thin tubers, ok, 20%u, 2 Rhizoctonia, 10%u, 4 Rhizoctonia, 20%u, 4 Rhizoctonia, 30%u, ✓✓
- ATX9332-8Ru Oblong Russet, nice, so so, OK, drop, 20%u, rot, BOT, 3 Rhizoctonia, alligator hide 4 Rhizoctonia, 30% u, 3 Rhizoctonia, 20% u, nice.
- ATX992230-1Ru Long Russet, small, drop++ , poor shape, drop?, OK, poor net, hollow heart on bud end, 10%u, nice shape, 20%u.

Summary:

The outstanding entries for this trial were TXA549-1Ru, AOTX98137-1Ru, AOTX95264-1Ru, ATX91137-1Ru, Stampede Russet and Russet Norkotah. ATX9332-8Ru, ATX992230-1Ru, ATX9202-1Ru, and TXDH-99-1Ru will be discarded.

TEXAS ADVANCED SELECTION CHIPPING TRIAL

The trial consisted of 43 entries, including the check variety Atlantic. The seed sources for this trial were North Dakota, Colorado and Dalhart.

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

- The outstanding entry for this trial based on best of trial designations was TX1673-2W (Table 5a).

- TX1673-2W and AOTX95309-3W had the highest total yield and total marketable yield. AOTX96580-1W and ATTX98471-4R/Y had the highest yield of 4-6 oz. tubers, while ATX85404-8W and NDTX028594-1W had the highest yield of 6-10 oz. tubers (Table 5a).
- TX1673-2W and PATX99P10-1Pu/R had the highest yield of 10-18 oz. tubers, while NDTX4930-5W had the highest yield of over 18 oz. tubers. PORTX03PG22-1R/PY had the highest yield of less than 4 oz. tubers (Table 5a).
- COTX01294-1W and NDTX4930-5W had the highest yield of culls/No.2 tubers (Table 5a).
- ATX85404-8W and TX1673-2W had the highest percentage of total marketable yield. NDTX6754C-1W and AOTX96580-1W had the highest percentage of 4-6 oz. tubers, while COTX00197-1W and ATX85404-8W had the highest percentage of 6-10 oz. (Table 5b).
- TX1673-2W and PATX99P10-1Pu/R had the highest percentage of 10-18 oz. tubers, while NDTX4930-5W had the highest percentage of over 18 oz. tubers. PORTX03PG22-1R/PY and ND8362C-2 had the highest percentage of less than 4 oz. tubers (Table 5b).
- COTX01294-1W had the highest percentage of culls/No.2 tubers (Table 5b).
- ATTX98471-4R/Y and ATTX98466-5R/W-R had the highest specific gravity (Table 5b).
- PORTX03PG22-1R/PY had the highest average tubers per plant, while NDTX4930-5W and TX1673-2W had the highest average tuber weight (Table 5c).
- ND8362C-2 was the latest maturing entries, while ATTX98466-5R/W-R was the earliest (Table 5c).
- ATTX99314-1W had very deep eyes (Table 5d).
- Atlantic, ATTX99314-1W, and ND8362C-2 had the highest percent hollow heart. NDTX028728-3W had the highest percent of internal defects (Table 5d).
- (Table 5f).

Comments on entries:

- TX1673-2W Oblong White, nice interior, BOT, outstanding internal, pointed.
- AOTX95309-3W Round White
- NDTX4930-5W Oblong White, oversize+, nice internal, yield+.
- NDTX028594-1W Round White, nice, 3Rhizoctonia, nice, 3Rhizoctonia.
- ATX85404-8W Oblong White, 3Rhizoctonia, oversize, nice internal, 1Rhizoctonia.
- NDTX028594-4W Round White

- PORTX03PG22-1R/PY Long Red, small tubers, buff skin, road map+.
- COTX01294-1W Round White, drop+++.
- AOTX96580-1W Round White, hollow heart, 1R, 4R,
- ATTX98471-4R/Y-spec Round Red, move to spec?? Or stay in chips, heat sprouts, yellow flesh.
- PORTX03PG87-1R/YR Oblong Red, red yellow flesh, red 2.5, yellow 3, rough, heat sprouts, drop.
- AOTX95309-1W Oblong White
- PATX99P10-1Pu/R Long Purple, hollow heart, road map+.
- ATTX8823-2W Round White, rough.
- Atlantic Round White, hollow heart+, zebra+, 3R, oversize.
- AOTX95309-2W Oblong White, rough, 20% zebra.
- COTX00254-2W Round White
- NDTX6773-1W Round White, 60% zebra.
- ND8362C-2 Round White, nice shape.
- NDTX7571-4AW Round White, hollow heart, mix?.
- COTX99238-2W Round White, nice shape.
- ATTX99314-1W Round White, scab, Rhizoctonia, scab, Rhizoctonia.
- NDTX6754C-1W Round White, hollow heart, deep nose, nice+.
- NDTX028728-3W Round White, hollow heart, deep nose, nice+.
- COTX00197-1W Round White
- ATTX98466-5 R/W-R Round White
- NDTX7571-3AW Round White, hollow heart.
- NDTX7571-5AW Round White, 4R.

Summary:

TRIAL OF THE 2004 CHIPPING SELECTIONS, DALHART

The trial consisted of 74 entries of which 23 were selected in the field for further chip evaluations. Of these, nine (COTX01339-4W, COTX01339-5W, COTX02332-1W, COTX02377-1W, COTX02377-2W, TX02080-1P, TX0280-2P, TX02098-2W COTX02203-5Ru) (Table 6) will be advanced in 2006.

TEXAS ADVANCED RUSSET SELECTION TRIAL, DALHART

The trial consisted of 15 entries, including the check variety Russet Norkotah. With the exception of Russet Norkotah, all seed was Texas grown.

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

- The outstanding entries for this trial based on general rating and best of trial designation were AOTX96075-1Ru and AOTX96216-3Ru while, TXNS410 also had high general ratings (Table 6a).
- TXNS410, Russet Norkotah, and AOTX96075-1Ru had the highest total yield. Russet Norkotah and AOTX96075-1Ru had the highest marketable yield, while Russet Norkotah and TXNS551 had the highest yield of 4-6 oz. tubers (Table 6a).
- Russet Norkotah and AOTX96075-1Ru had the highest yield of 6-10 oz. and 10-18 oz. tubers (Table 6a).
- TXNS410 had the highest yield of over 18 oz. tubers, while Russet Norkotah had the highest yield of less than 4 oz. tubers (Table 6a).
- AOTX98096-1Ru and AOTX96084-1Ru had the highest yield of culls/No.2 tubers (Table 6a).
- Russet Norkotah and AOTX96075-1Ru had the highest percentages of marketable yield, while Russet Norkotah had the highest percentage of 4-6 oz. and 6-10 oz. tubers (Table 6b).
- AOTX96075-1Ru and AOTX96216-3Ru had the highest percentage of 10-18 oz. tubers, while TXNS410 and AOTX98096-1Ru had the highest percentage of over 18 oz. tubers. Russet Norkotah had the highest percentage of less than 4 oz. tubers (Table 6b).
- ATX97195-1Ru, AOTX98096-1Ru, and TXNS410 had the highest specific gravity (Table 6b).
- AOTX96216-3Ru and Russet Norkotah had the highest average number of tubers per plant, while ATX97195-1Ru had the lowest. TXNS410, ATX97195-1Ru, and AOTX98096-1Ru had the highest average tuber weight, while Russet Norkotah and AOTX96075-1Ru had the lowest (Table 6c).
- AOTX96216-3Ru and TXNS410 were the latest maturing, while Russet Norkotah was the earliest (Table 6c).
- All of the entries had over 30% hollow heart with TXNS410 having 60% (Table 6d).

Comments on entries:

- TXNS410 Long Russet, nice+, keep, nice.
- Russet Norkotah Long Russet, nice++, 20%u.
- AOTX96075-1Ru Long Russet, nice++, longer than Norkotah, BOT+*, rough, 20%u, curved, 20%u, very large tubers, yield+, 20%u.
- AOTX96084-1Ru Long Russet, keep, 20%u, 60%u, nice shape, nice.
- TXNS551 Long Russet, keep, nice.
- AOTX96216-2Ru Long Russet, keep, 3Rhizoctonia, rough, 3 Rhizoctonia, 20%u, 1 Rhizoctonia, 40%u, poor shape, 2 Rhizoctonia, 40%u, drop.
- ATX97195-1Ru Oblong Russet, keep, 20%u, yield+, curved, 20%u, 20%u.
- AOTX98096-1Ru Long Russet, drop, keep, nice, 20%u.
- AOTX96216-3Ru Long Russet, keep, one good rep, 20%u, BOT, nice shape.

Summary:

Based on all factors, the outstanding entries in this trial were AOTX96075-1Ru, AOTX96216-3Ru, TXNS410, and Russet Norkotah.

TRIAL OF THE 2004 RUSSET SELECTIONS, DALHART

The trial consisted of 89 entries of which nine (AOTX02019-1Ru, AOTX02064-2Ru, AOTX02136-1Ru, AOTX02167-1Ru, AOTX02197-1Ru, AOTX02206-5Ru, COTX02056-1Ru, COTX02203-3Ru, and COTX02203-5Ru) (Table 8) will be advanced in 2006.

TEXAS ADVANCED RED SELECTION TRIAL, DALHART

This trial consisted of 17 entries. With the exception of the check variety Red LaSoda and ND4756-1R, all seed came from Dalhart.

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

- The outstanding entries based on general rating and best of trial designation was BTX2332-1R, while ATTX01180-1R, ATTX01180-4R, ATX00144-2R, and NDTX4304-1R also had high general ratings (Table 9a).

- NDTX4828-2R and NDTX731-1R had the highest total yield, while NDTX731-1R, BTX2332-1R, and NDTX4828-2R had the highest marketable yield (Table 9a).
- ATX00144-2R had the highest yield of 4-6 oz. tubers, while NDTX731-1R and ND4756-1R had the highest yield of 6-10 oz. tubers. NDTX4828-2R and ATTX98453-6R had the highest yield of 10-18 oz tubers, while NDTX4828-2R and ATX01188-1R had the highest yield of over 18 oz. tubers (Table 9a).
- COTX94218-1R and COTX00411-4R had the highest yield of less than 4 oz tubers, while ND4756-1R and ATTX01188-1R had the highest yield of culls/No. 2 tubers (Table 9a).
- BTX2332-1R, ATTX01180-1R, and ATTX01180-4R had the highest percentage marketable yield, while ATX00144-2R had the highest percentage of 4-6 oz. tubers (Table 9b).
- NDTX731-1R, NDTX4304-1R, and COTX00290-3R had the highest percentage of 6-10 oz. tubers, while ATTX01175-1R and ATTX98453-6R had the highest percentage of 10-18 oz. tubers. (Table 9b).
- NDTX4828-2R and ATX01188-1R had the highest percentage of over 18 oz. tubers, while COTX94218-1R and COTX00411-4R the highest percentage of less than 4 oz. tubers (Table 9b).
- ATX00144-2R and COTX00411-4R had the highest specific gravities (Table 9b)
- NDTX731-1R, NDTX4304-1R, and COTX94218-1R had the highest average number of tuber per plant, while ATX01188-1R and NDTX4828-2R had the highest average tuber weight (Table 9c).
- ATX01188-1R was the latest maturing, while ATX00144-2R and ATTX01180-1R was the earliest maturing (Table 9c).
- NDTX4828-2R, NDTX731-1R, and Red LaSoda had the deepest eyes. NDTX4828-2R and ATX01188-1R had high percentages of hollow heart. (Table 9d).

Comments on entries:

- NDTX4828-2R Oblong Red, Red 3¹, deep eyes, rough, lenticels, silver scurf, Red 3.2, drop, early, rough, 20% u, silver scurf, 3Rhizoctonia, nice interior.
- NDTX731-1R Round Red, Red 3.5, early, eyes somewhat deep, does not oversize, 20% u, good skin set, 3.5 Rhizoctonia, 2 Rhizoctonia, ugly nose, 1 Rhizoctonia, drop, 20% u.
- ATX01188-1R Oblong Red, Red 4, keep, 40% u, mix, nice color, nice shape, good skin set, Red 4.5, BOT.
- BTX2332-1R Round Red, Red 3, early, smooth, keep, BOT+-, road map, nice shape, Red 3.5, feathering, 20% u.
- ND4756-1R Oblong Red, Red 4, nice flesh, nice, color variable from 3.5-4.5, good skin set, silver scurf++, 3 Rhizoctonia, 20% u
- NDTX4847-7R Round Red, Red 4, smooth, green sprouts, 20% u, nice shape, some feathering, Red 4, BOT-, silver scurf+, nice, 40% u.

- ATTX98453-6R Oblong Red, Red 3.2, keep, 60% u, nice+, nice shape, Red 3.5, heat sprouts, 20% u, 60% u.
- ATTX01180-1R Round Red, Red 3.5, nice flesh, nice shape, 60% u, feathering, Red 3.5, large tubers are rough, 40% u.
- ATTX01180-4R Round Red, Red 3.5, Vascular Discoloration, feathering, nice shape, Red 3.5, silver scurf, 20% u, 40% u.
- ATX00144-2R Round Red, Red 3.5, keep, buff skin, nice shape, small tubers, Red 3.7, road map ++, 20% u, drop?, 3 Rhizoctonia.
- COTX00411-4R Oblong Red, Red 4.5, keep, Red 4.5, keep, silver scurf+, deep nose+, drop+++?.
- COTX94218-1R Round Red, Red 3.2, smooth, keep, 20% u, nice shape, small tubers, skin color faded, Red 3.0, 20% u, 40% u, nice.
- COTX00290-3R Round Red, Red 3.2, keep, Red 3.2, poor shape, good skin set, Red 3.7.
- NDTX4304-1R Oblong Red, Red 4, BOT, feathering, 20% u, nice shape, Red 4, BOT-, deep nose, nice interior.
- Red LaSoda Oblong Red, Red 3.5, 20% u, Red 3.2, 4 Rhizoctonia, silver scurf, rough, 20% u.
- ATTX01175-1R Oblong Red, Red 4.5, Vascular Discoloration, feathering, nice color, good shape, Red 4.2, BOT-, 40% u.

¹Red – Skin color 5=dark, 1=light

Summary:

Based on all factors, the outstanding entries for this trial were BTX2332-1R, NDTX4304-1R, NDTX4847-7R, ATTX98453-6R, COTX94218-1R, and ATX01188-1R. Others deserving mention include ATTX01180-1R, ATTX01180-4R and ATX00144-2R.

TRIAL OF THE 2004 RED SELECTIONS, DALHART

The trial consisted of 110 entries of which 12 (ATX01180-1R, COTX02038-1R, COTX02041-1R, COTX02172-1R, COTX02175-6RA, COTX02175-6RB, COTX02266-1R, COTX02266-2R, COTX02293-4R, COTX02294-4R, COTX02380-3RA, and COTX02380-3RB) (Table 10) will be advanced in 2006.

TEXAS ADVANCED SPECIALTY SELECTION

The Texas advanced specialty selection trial consisted of 41 entries, including the check variety Yukon Gold. The seed was from Colorado, Canada, North Dakota and Dalhart.

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

- The outstanding entries for this trial based on general rating and best of trial designations were TX1674-1W/Y, PORTX03PG19-1Pu/YR, PORTX03PG25-2R/P, and NDTX7571-1WRE/Y, while ATTX98510-1R/Y, NDTX4756-1R/Y, COTX01403-1R/Y, ATTX99325-1P, UNTX383-3WRE/Y, ATTX961014-1AR/Y, ATTX98444-9R/Y, and ATTX98462-16R/Y only received best of trial designations. TX1523-1Ru/Y received the highest general rating (Table 11a).
- RZD95-6643, RZD94-2262, ATTX98510-1R/Y, and ND8083b-1pY had the highest total yield, while RZD95-6643, TX1674-1W/Y, RZD94-2262, and ATTX98500-3W/P calico had the highest marketable yield (Table 11a)
- ATTX98514-1R/Y and PORTX03PG19-1Pu/YR had the highest yield of 4-6 oz. tubers, while RZD95-6643 and RZD94-2262 had the highest yield of 6-10 oz. tubers (Table 11a).
- TX1674-1W/Y and TX1523-1Ru/Y had the highest yield of 10-18 oz. tubers, while RZD95-6643 and ATTX98462-3R/Y had the highest yield of greater than 18 oz. tubers (Table 11a).
- ND8083b-1pY and ATTX98468-3R/Y had the highest yield of less than 4 oz. tubers, while Courage and Klondike Rose had the highest yield of culls/No. 2 tubers (Table 11a).
- COTX01397-7R/Y, COTX01403-4R/Y, and NDTX7571-1W-RE/Y had the highest percentage of marketable yield, while COTX01397-7R/Y and PORTX03PG19-1Pu/YR had the highest percentage of 4-6 oz. tubers (Table 11b).
- RZD94-2262 and ATTX98500-3W/P calico had the highest percentage of 6-10 oz. tubers, while TX1674-1W/Y and COTX01403-4R/Y had the highest percentage of 10-18 oz. tubers (Table 11b).
- ATTX98444-16R/Y and ATTX98468-3R/Y had the highest percentage of less than 4 oz. tubers, while Courage and Klondike Rose had the highest percentage of culls/No. 2 tubers (Table 11b).
- High specific gravities were recorded for ND8083b-1pY and PORTX03PG19-1Pu/YR (Table 11b).
- PORTX03PG59-1PINTO/Y and BTX1749-1W/Y had the highest average number of tubers per plant, while NDTX028742-4P/P and ATTX99325-1P had the highest average tuber weight (Table 11c).
- RZD94-2262, Courage, and Golden Sunburst were the latest maturing clones, while ATTX99325-1P and ATTX98462-9R/Y was the earliest maturing (Table 11c).
- ATTX98493-2P/P, Golden Sunburst, UNTX383-3WRE/Y, PORTX03PG25-2R/Y, ATTX98491-4YR splash, NDTX7571-1WRE/Y, and Klondike Rose had the deepest flesh color (Table 11d).
- Yukon Gold, NDTX028742-4P/P, and RZD94-2262 had the highest percentage of hollow heart (Table 11d).

Comments on entries:

- RZD95-6643 Oblong White, growth cracks, deep nose at both ends, rough, feathering, yield+.
- RZD94-2262 Oblong White, heat sprouts, y-2, drop, nipple ends+.
- ATTX98510-1R/Y Oblong Red, yield+, r-3.5, y-3, keep, BOT-, road map, silver scurf+, keep
- ND8083b-1pY Round-Oblong Red, red yellow flesh, r-2.7, y-2.5, 3 Rhizoctonia, many small tubers, 3 Rhizoctonia, boiler, drop.
- ATTX98500-3W/P calico Oblong Purple/splash, flat, y-4, keep, flat, some pointed to stem end.
- TX1674-1W/Y Oblong White, flat, y-3, BOT+, yield+, 40%u, flat, candidate.
- ATTX98514-1R/Y Round Red, r-3.2, y-3, keep, silver scurf.
- Courage Oblong Red, rough, scale, unattractive buff skin, green vine, heat spouts, deep nose, r-3, y-2, drop.
- BTX1544-2W/Y Oblong White, y-3, rough++, variable shape, nice.
- TX1523-1Ru/Y Oblong Russet, yield+, can oversize, y-3, 3 Rhizoctonia, 4 Rhizoctonia.
- NDTX4756-1R/Y Oblong Red, r-3.2, y-3, keep, BOT-, oversize, BOT, yield+, nice.
- ATTX98493-2P/P Oblong-Long Purple, nice dark flesh, p-4.5, BOT, rough, eye brows
- ATTX88654-3W/RE/Y Oblong Red/eye, y-3.5, keep, smooth, nice++, 20% u, 20% u.
- COTX01403-4R/Y Oblong Red, r-3.2, y-3, keep, BOT+-, keep, road map, silver scurf.
- ATX99331-1Pu/Y Round-Oblong Purple, nice shape, y-4, keep+, road map.
- ND7834-2P Oblong-Long Purple, smooth, p-2.5, nice shape, internal like all blue, chip?.
- PORTX03PG19-1Pu/YR Oblong Red, smooth, r-4, y-4, yellow/red flesh, keep, BOT, road map+, buff, BOT- for interior, keep, 4 Rhizoctonia.
- COTX00328-1Pu/Ypu Oblong Purple, chip, rough, purple vascular ring, keep, road map.
- BTX1749-1W/Y Oblong White, nice, y-3, keep.
- ATTX99325-1P Oblong Purple, eye brows, heat sprouts, market??, BOT, nice shape and size, drop, feathering+, silver scurf+, drop?.
- ATTX98468-3R/Y Round Red, r-4, y-3.5, keep, BOT-, road map+, silver scurf+.

- Golden Sunburst Round White, poor shape, pointed to stem end, poor internal, y-4, nice flesh.
- UNTX383-3WRE/Y Round White/Red Eye, y-4, keep, BOT-.
- PORTX03PG25-2R/P Long Red, r-4.5(skin), r-5(flesh), fingerling, keep, BOT+++.
- NDTX8555-2R/P Oblong-Long Red r-4.5(skin), r-2(flesh), chip, keep, road map, heat sprouts.
- ATTX98462-3R/Y Oblong Red, r-4, y-2, keep, large tubers, heat sprouts+, nice size, keep, road map+.
- ATTX98468-5R/Y Oblong Red, r-3.5, y-3.5, keep?, rough+, Keep+, feathering++, heat sprouts, nice flesh.
- Yukon Gold Oblong White, can oversize, variable size, y-3, nice skin.
- ATTX961014-1R/Y Oblong Red, Spec/High AntiOx, r-3, y-2.5, keep, road map, nice+.
- ATTX98491-4YRsplash/Y Oblong Red/Splash ,Spec/High AntiOx, y-4, keep, red splash, deep nose, nice interior, 10% u.
- NDTX7571-1WRE/Y Oblong White/Redeye, y-4, keep, BOT++, y-4, keep++, 60% u.
- NDTX028742-1P/P Oblong Purple, keep, chip.
- ATTX961014-1AR/Y Oblong Red, y-3, keep++, drop, lenticels, road map+, BOT-, 4 Rhizoctonia, nice internal, 4 Rhizoctonia, silver scurf+, heat sprouts.
- PATX99P10-1R/R Oblong Red, keep, chip, road map.
- PORTX03PG59-1PINTO/Y Oblong Purple, drop++++.
- KLONDYKE ROSE Long Red, heat sprouts, pointed to stem end, y-3.5.
- PORTX03PG34-4R/P Long Red, r-4(skin), r-2.5(flesh), fingerling, keep, not attractive exterior.
- ATTX98444-16R/Y Oblong Red, small, r-3.5, y-3.5, keep, BOT- , pointed to stem end, silver scurf, road map.
- ATTX98462-9R/Y Oblong Red, r-4, y-4, keep, BOT-, heat sprouts, buff.
- COTX01397-7R/Y Oblong Red, r-3, y-3, keep, chip.
- NDTX028742-4P/P Oblong Red, chip.

Summary:

Based on all factors the outstanding entries for this trial were ATTX98510-1R/Y and NDTX4756-1R/Y. Others deserving mention include ATTX98493-2P/P, TX1523-1Ru/Y, COTX01403-4R/Y, PORTX03PG19-1P/Y-R, ATTX98468-3R/Y, PORTX03PG25-R/P, ATTX961014-1R/Y, NDTX7571-1W-Re/Y, ATTX98444-16R/Y, and ATTX98462-9R/Y.

TRIAL OF THE 2004 SPECIALTY SELECTIONS, DALHART

The trial consisted of 51 entries of which 7 (AOTX98273-1W, COTX02305-3R, TX02124-2W, NDTX038997-1R/R, TX02106-1R/R, TX02106-2R/R, and NDTX028976-1R/Y) (Table 12) will be advanced in 2006.

2005 NURSERY, DALHART

The Dalhart nursery was used primarily to evaluate and increase the 2004 russet, red, specialty, and chip selections from Springlake and Dalhart and to produce seed from disease-free mini tubers of 20 promising advanced selections.

Western Regional Cooperative Chipping Trial Dalhart Tables 1a, 1b, 1c, 1d, 1e and addendum

CO96141-4W
COA96141-2C
COA96142-3C
B0766-3T
Atlantic
Chipeta
Ivory Crisp
A91814-5
CO95051-7W

CO96141-4W
COA96141-2C
COA96142-3C
B0766-3T
Atlantic
Chipeta
Ivory Crisp
A91814-5
CO95051-7W

CO96141-4W
COA96141-2C
COA96142-3C
B0766-3T
Atlantic
Chipeta
Ivory Crisp
A91814-5
CO95051-7W

CO96141-4W
COA96141-2C
COA96142-3C
B0766-3T
Atlantic
Chipeta
Ivory Crisp
A91814-5
CO95051-7W

CO96141-4W
COA96141-2C
COA96142-3C
B0766-3T
Atlantic
Chipeta
Ivory Crisp
A91814-5
CO95051-7W

**Southwestern Regional Cooperative Chipping Trial Dalhart Tables 2a, 2b, 2c,
2d, 2e, and addendum**

AC97097-14W
CO97065-7W
Atlantic
Chipeta
CO97043-14W

AC97097-14W
CO97065-7W
Atlantic
Chipeta
CO97043-14W

AC97097-14W
CO97065-7W
Atlantic
Chipeta
CO97043-14W

AC97097-14W
CO97065-7W
Atlantic
Chipeta
CO97043-14W

AC97097-14W
CO97065-7W
Atlantic
Chipeta
CO97043-14W

**Pre-Southwestern Regional Cooperative Russet Trial Dalhart Tables 3a, 3b, 3c, 3d,
3e, and addendum**

AOTX95265-3Ru
AOTX95265-4Ru
AOTX96208-1Ru
AOTX98137-1Ru
AOTX95269-1Ru
Russet Norkotah
AOTX95265-1Ru
AOTX95295-3Ru
AOTX95295-1Ru
AOTX96216-1Ru

AOTX95265-3Ru
AOTX95265-4Ru
AOTX96208-1Ru
AOTX98137-1Ru
AOTX95269-1Ru
Russet Norkotah
AOTX95265-1Ru
AOTX95295-3Ru
AOTX95295-1Ru
AOTX96216-1Ru

AOTX95265-3Ru
AOTX95265-4Ru
AOTX96208-1Ru
AOTX98137-1Ru
AOTX95269-1Ru
Russet Norkotah
AOTX95265-1Ru
AOTX95295-3Ru
AOTX95295-1Ru
AOTX96216-1Ru

AOTX95265-3Ru
AOTX95265-4Ru
AOTX96208-1Ru
AOTX98137-1Ru
AOTX95269-1Ru
Russet Norkotah
AOTX95265-1Ru
AOTX95295-3Ru
AOTX95295-1Ru
AOTX96216-1Ru

AOTX95265-3Ru
AOTX95265-4Ru
AOTX96208-1Ru
AOTX98137-1Ru
AOTX95269-1Ru
Russet Norkotah
AOTX95265-1Ru
AOTX95295-3Ru
AOTX95295-1Ru
AOTX96216-1Ru

Advanced Russet Selection Trial Dalhart Tables 4a, 4b, 4c, 4d, 4e and addendum

TXA549-1Ru
AOTX98137-1Ru
MWTX2609-4Ru
ATX84706-2Ru
MWTX2609-2Ru
Russet Norkotah
TXDH-99-1Ru
AOTX95265-4Ru
Stampede Russet
ATX91137-1Ru
TXNS296
AOTX95265-2ARu
ATX9202-1Ru
ATX84378-1Ru
TXNS278
TXNS223
ATX9332-8Ru
ATX992230-1Ru

TXA549-1Ru
AOTX98137-1Ru
MWTX2609-4Ru
ATX84706-2Ru
MWTX2609-2Ru
Russet Norkotah
TXDH-99-1Ru
AOTX95265-4Ru
Stampede Russet
ATX91137-1Ru
TXNS296
AOTX95265-2ARu
ATX9202-1Ru
ATX84378-1Ru
TXNS278
TXNS223
ATX9332-8Ru
ATX992230-1Ru

TXA549-1Ru
AOTX98137-1Ru
MWTX2609-4Ru
ATX84706-2Ru
MWTX2609-2Ru
Russet Norkotah
TXDH-99-1Ru
AOTX95265-4Ru
Stampede Russet
ATX91137-1Ru
TXNS296
AOTX95265-2ARu
ATX9202-1Ru
ATX84378-1Ru
TXNS278
TXNS223
ATX9332-8Ru
ATX992230-1Ru

TXA549-1Ru
AOTX98137-1Ru
MWTX2609-4Ru
ATX84706-2Ru
MWTX2609-2Ru
Russet Norkotah
TXDH-99-1Ru
AOTX95265-4Ru
Stampede Russet
ATX91137-1Ru
TXNS296
AOTX95265-2ARu
ATX9202-1Ru
ATX84378-1Ru
TXNS278
TXNS223
ATX9332-8Ru
ATX992230-1Ru

TXA549-1Ru
AOTX98137-1Ru
MWTX2609-4Ru
ATX84706-2Ru
MWTX2609-2Ru
Russet Norkotah
TXDH-99-1Ru
AOTX95265-4Ru
Stampede Russet
ATX91137-1Ru
TXNS296
AOTX95265-2ARu
ATX9202-1Ru
ATX84378-1Ru
TXNS278
TXNS223
ATX9332-8Ru
ATX992230-1Ru

**Texas Advanced Chipping Selection Trial Dalhart Tables 5a, 5b, 5c, 5d, 5e, 5f, and
addendum**

TX1673-2W
AOTX95309-3W
NDTX4930-5W
NDTX028594-1W
ATX85404-8W
NDTX028594-4W
PORTX03PG22-1R/PY
COTX01294-1W
AOTX96580-1W
ATTX98471-4R/Y-spec
PORTX03PG87-1R/YR
AOTX95309-1W
PATX99P10-1Pu/R
ATTX8823-2W
Atlantic
AOTX95309-2W
COTX00254-2W
NDTX6773-1W
ND8362C-2
NDTX7571-4AW
COTX99238-2W
ATTX99314-1W
NDTX6754C-1W
NDTX028728-3W
COTX00197-1W
ATTX98466-5 R/W-R
NDTX7571-3AW
NDTX7571-5AW

TX1673-2W
AOTX95309-3W
NDTX4930-5W
NDTX028594-1W
ATX85404-8W
NDTX028594-4W
PORTX03PG22-1R/PY
COTX01294-1W
AOTX96580-1W
ATTX98471-4R/Y-spec
PORTX03PG87-1R/YR
AOTX95309-1W
PATX99P10-1Pu/R
ATTX8823-2W
Atlantic
AOTX95309-2W
COTX00254-2W
NDTX6773-1W
ND8362C-2
NDTX7571-4AW
COTX99238-2W
ATTX99314-1W
NDTX6754C-1W
NDTX028728-3W
COTX00197-1W
ATTX98466-5 R/W-R
NDTX7571-3AW
NDTX7571-5AW

TX1673-2W
AOTX95309-3W
NDTX4930-5W
NDTX028594-1W
ATX85404-8W
NDTX028594-4W
PORTX03PG22-1R/PY
COTX01294-1W
AOTX96580-1W
ATTX98471-4R/Y-spec
PORTX03PG87-1R/YR
AOTX95309-1W
PATX99P10-1Pu/R
ATTX8823-2W
Atlantic
AOTX95309-2W
COTX00254-2W
NDTX6773-1W
ND8362C-2
NDTX7571-4AW
COTX99238-2W
ATTX99314-1W
NDTX6754C-1W
NDTX028728-3W
COTX00197-1W
ATTX98466-5 R/W-R
NDTX7571-3AW
NDTX7571-5AW

TX1673-2W
AOTX95309-3W
NDTX4930-5W
NDTX028594-1W
ATX85404-8W
NDTX028594-4W
PORTX03PG22-1R/PY
COTX01294-1W
AOTX96580-1W
ATTX98471-4R/Y-spec
PORTX03PG87-1R/YR
AOTX95309-1W
PATX99P10-1Pu/R
ATTX8823-2W
Atlantic
AOTX95309-2W
COTX00254-2W
NDTX6773-1W
ND8362C-2
NDTX7571-4AW
COTX99238-2W
ATTX99314-1W
NDTX6754C-1W
NDTX028728-3W
COTX00197-1W
ATTX98466-5 R/W-R
NDTX7571-3AW
NDTX7571-5AW

TX1673-2W
AOTX95309-3W
NDTX4930-5W
NDTX028594-1W
ATX85404-8W
NDTX028594-4W
PORTX03PG22-1R/PY
COTX01294-1W
AOTX96580-1W
ATTX98471-4R/Y-spec
PORTX03PG87-1R/YR
AOTX95309-1W
PATX99P10-1Pu/R
ATTX8823-2W
Atlantic
AOTX95309-2W
COTX00254-2W
NDTX6773-1W
ND8362C-2
NDTX7571-4AW
COTX99238-2W
ATTX99314-1W
NDTX6754C-1W
NDTX028728-3W
COTX00197-1W
ATTX98466-5 R/W-R
NDTX7571-3AW
NDTX7571-5AW

AOTX95309-1W
AOTX95309-2W
AOTX95309-3W
Atlantic
ATTX8823-2W
ATTX98466-5 R/W-R
COTX00197-1W
COTX99238-2W
NDTX028712-1W
NDTX6773-1W
NDTX7571-3AW
NDTX7571-4AW
NDTX7571-5AW
PATX99P10-1Pu/R

2004 Chipping Selection Trial Dalhart Table 6

COTX01339-4W

COTX01339-5W

COTX02332-1W

COTX02377-1W

COTX02377-2W

TX02080-1P

TX02080-2P

TX02098-2W

COTX02203-5Ru

**Texas Advanced Russet Selection Trial Dalhart Tables 7a, 7b, 7c, 7d, 7e, and
addendum**

TXNS410
Russet Norkotah
AOTX96075-1Ru
AOTX96084-1Ru
TXNS551
AOTX96216-2Ru
ATX97195-1Ru
AOTX98096-1Ru
AOTX96216-3Ru

TXNS410
Russet Norkotah
AOTX96075-1Ru
AOTX96084-1Ru
TXNS551
AOTX96216-2Ru
ATX97195-1Ru
AOTX98096-1Ru
AOTX96216-3Ru

TXNS410
Russet Norkotah
AOTX96075-1Ru
AOTX96084-1Ru
TXNS551
AOTX96216-2Ru
ATX97195-1Ru
AOTX98096-1Ru
AOTX96216-3Ru

TXNS410
Russet Norkotah
AOTX96075-1Ru
AOTX96084-1Ru
TXNS551
AOTX96216-2Ru
ATX97195-1Ru
AOTX98096-1Ru
AOTX96216-3Ru

TXNS410
Russet Norkotah
AOTX96075-1Ru
AOTX96084-1Ru
TXNS551
AOTX96216-2Ru
ATX97195-1Ru
AOTX98096-1Ru
AOTX96216-3Ru

2004 Russet Selection Trial Dalhart Table 8

AOTX02019-1Ru

AOTX02064-2Ru

AOTX02136-1Ru

AOTX02167-1Ru

AOTX02197-1Ru

AOTX02206-5Ru

COTX02056-1Ru

COTX02203-3Ru

COTX02203-5Ru

**Texas Advanced Red Selection Trial Dalhart Tables 9a, 9b, 9c, 9d, 9e, and
addendum**

NDTX4828-2R
NDTX731-1R
ATX01188-1R
BTX2332-1R
ND4756-1R
NDTX4847-7R
ATTX98453-6R
ATTX01180-1R
ATTX01180-4R
ATX00144-2R
COTX00411-4R
COTX94218-1R
COTX94218-1R
COTX00290-3R
NDTX4304-1R
Red LaSoda
ATTX01175-1R

NDTX4828-2R
NDTX731-1R
ATX01188-1R
BTX2332-1R
ND4756-1R
NDTX4847-7R
ATX98453-6R
ATX01180-1R
ATX01180-4R
ATX00144-2R
COTX00411-4R
COTX94218-1R
COTX94218-1R
COTX00290-3R
NDTX4304-1R
Red LaSoda
ATX01175-1R

NDTX4828-2R
NDTX731-1R
ATX01188-1R
BTX2332-1R
ND4756-1R
NDTX4847-7R
ATX98453-6R
ATX01180-1R
ATX01180-4R
ATX00144-2R
COTX00411-4R
COTX94218-1R
COTX94218-1R
COTX00290-3R
NDTX4304-1R
Red LaSoda
ATX01175-1R

NDTX4828-2R
NDTX731-1R
ATX01188-1R
BTX2332-1R
ND4756-1R
NDTX4847-7R
ATX98453-6R
ATX01180-1R
ATX01180-4R
ATX00144-2R
COTX00411-4R
COTX94218-1R
COTX94218-1R
COTX00290-3R
NDTX4304-1R
Red LaSoda
ATX01175-1R

NDTX4828-2R
NDTX731-1R
ATX01188-1R
BTX2332-1R
ND4756-1R
NDTX4847-7R
ATX98453-6R
ATX01180-1R
ATX01180-4R
ATX00144-2R
COTX00411-4R
COTX94218-1R
COTX94218-1R
COTX00290-3R
NDTX4304-1R
Red LaSoda
ATX01175-1R

2004 Red Selection Trial Dalhart Table 10

ATX01180-1R
COTX02038-1R
COTX02041-1R
COTX02172-1R
COTX02175-6RA
COTX02175-6RB
COTX02266-1R
COTX02266-2R
COTX02293-4R
COTX02294-4R
COTX02380-3RA
COTX02380-3RB

**Texas Advanced Specialty Selection Trial Dalhart Tables 11a, 11b, 11c, 11d, 11e,
and addendum**

RZD95-6643
RZD94-2262
ATTX98510-1R/Y
ND8083b-1pY
ATTX98500-3Wpuspl
TX1674-1W/Y
ATTX98514-1R/Y
Courage
BTX1544-2W/Y
TX1523-1Ru/Y
NDTX4756-1R/Y
ATTX98493-2P/P
ATTX88654-3W/RE/Y
COTX01403-4R/Y
ATX99331-1Pu/Y
ND7834-2P
PORTX03PG19-1Pu/YR
COTX00328-1Pu/Ypu
BTX1749-1W/Y
ATTX99325-1P
ATTX98468-3R/Y
Golden Sunburst
UNTX383-3WRE/Y
PORTX03PG25-2R/P
NDTX8555-2R/P

ATTX98462-3R/Y
ATTX98468-5R/Y
Yukon Gold
ATTX961014-1R/Y
ATTX98491-4YRsplash/Y
NDTX7571-1WRE/Y
NDTX028742-1P/P
ATTX961014-1AR/Y
PATX99P10-1R/R
PORTX03PG59-1PINTO/Y
KLONDYKE ROSE
PORTX03PG34-4R/P
ATTX98444-16R/Y
ATTX98462-9R/Y
COTX01397-7R/Y
NDTX028742-4P/P

RZD95-6643
RZD94-2262
ATTX98510-1R/Y
ND8083b-1pY
ATTX98500-3Wpuspl
TX1674-1W/Y
ATTX98514-1R/Y
Courage
BTX1544-2W/Y
TX1523-1Ru/Y
NDTX4756-1R/Y
ATTX98493-2P/P
ATTX88654-3W/RE/Y
COTX01403-4R/Y
ATX99331-1Pu/Y
ND7834-2P
PORTX03PG19-1Pu/YR
COTX00328-1Pu/Ypu
BTX1749-1W/Y
ATTX99325-1P
ATTX98468-3R/Y
Golden Sunburst
UNTX383-3WRE/Y
PORTX03PG25-2R/P
NDTX8555-2R/P

ATTX98462-3R/Y
ATTX98468-5R/Y
Yukon Gold
ATTX961014-1R/Y
ATTX98491-4YRsplash/Y
NDTX7571-1WRE/Y
NDTX028742-1P/P
ATTX961014-1AR/Y
PATX99P10-1R/R
PORTX03PG59-1PINTO/Y
KLONDYKE ROSE
PORTX03PG34-4R/P
ATTX98444-16R/Y
ATTX98462-9R/Y
COTX01397-7R/Y
NDTX028742-4P/P

RZD95-6643
RZD94-2262
ATTX98510-1R/Y
ND8083b-1pY
ATTX98500-3Wpuspl
TX1674-1W/Y
ATTX98514-1R/Y
Courage
BTX1544-2W/Y
TX1523-1Ru/Y
NDTX4756-1R/Y
ATTX98493-2P/P
ATTX88654-3W/RE/Y
COTX01403-4R/Y
ATX99331-1Pu/Y
ND7834-2P
PORTX03PG19-1Pu/YR
COTX00328-1Pu/Ypu
BTX1749-1W/Y
ATTX99325-1P
ATTX98468-3R/Y
Golden Sunburst
UNTX383-3WRE/Y
PORTX03PG25-2R/P
NDTX8555-2R/P

ATTX98462-3R/Y
ATTX98468-5R/Y
Yukon Gold
ATTX961014-1R/Y
ATTX98491-4YRsplash/Y
NDTX7571-1WRE/Y
NDTX028742-1P/P
ATTX961014-1AR/Y
PATX99P10-1R/R
PORTX03PG59-1PINTO/Y
KLONDYKE ROSE
PORTX03PG34-4R/P
ATTX98444-16R/Y
ATTX98462-9R/Y
COTX01397-7R/Y
NDTX028742-4P/P

RZD95-6643
RZD94-2262
ATTX98510-1R/Y
ND8083b-1pY
ATTX98500-3Wpuspl
TX1674-1W/Y
ATTX98514-1R/Y
Courage
BTX1544-2W/Y
TX1523-1Ru/Y
NDTX4756-1R/Y
ATTX98493-2P/P
ATTX88654-3W/RE/Y
COTX01403-4R/Y
ATX99331-1Pu/Y
ND7834-2P
PORTX03PG19-1Pu/YR
COTX00328-1Pu/Ypu
BTX1749-1W/Y
ATTX99325-1P
ATTX98468-3R/Y
Golden Sunburst
UNTX383-3WRE/Y
PORTX03PG25-2R/P
NDTX8555-2R/P

ATTX98462-3R/Y
ATTX98468-5R/Y
Yukon Gold
ATTX961014-1R/Y
ATTX98491-4YRsplash/Y
NDTX7571-1WRE/Y
NDTX028742-1P/P
ATTX961014-1AR/Y
PATX99P10-1R/R
PORTX03PG59-1PINTO/Y
KLONDYKE ROSE
PORTX03PG34-4R/P
ATTX98444-16R/Y
ATTX98462-9R/Y
COTX01397-7R/Y
NDTX028742-4P/P

RZD95-6643
RZD94-2262
ATTX98510-1R/Y
ND8083b-1pY
ATTX98500-3Wpuspl
TX1674-1W/Y
ATTX98514-1R/Y
Courage
BTX1544-2W/Y
TX1523-1Ru/Y
NDTX4756-1R/Y
ATTX98493-2P/P
ATTX88654-3W/RE/Y
COTX01403-4R/Y
ATX99331-1Pu/Y
ND7834-2P
PORTX03PG19-1Pu/YR
COTX00328-1Pu/Ypu
BTX1749-1W/Y
ATTX99325-1P
ATTX98468-3R/Y
Golden Sunburst
UNTX383-3WRE/Y
PORTX03PG25-2R/P
NDTX8555-2R/P

ATTX98462-3R/Y
ATTX98468-5R/Y
Yukon Gold
ATTX961014-1R/Y
ATTX98491-4YRsplash/Y
NDTX7571-1WRE/Y
NDTX028742-1P/P
ATTX961014-1AR/Y
PATX99P10-1R/R
PORTX03PG59-1PINTO/Y
KLONDYKE ROSE
PORTX03PG34-4R/P
ATTX98444-16R/Y
ATTX98462-9R/Y
COTX01397-7R/Y
NDTX028742-4P/P

2004 Specialty Selection Trial Dalhart Table 12

AOTX98273-1W
COTX02305-3R
TX02124-2W
NDTX038997-1R/R
TX02106-1R/R
TX02106-2R/R
NDTX028976-1R

Appendix A. General notes on potato varieties or selections – 2005.

A91814-5 - Oblong White. Parentage (NDA2031-2 x Ivory Crisp). Cross made and selected in Aberdeen. Medium-early maturity. Small vine size. Red-purple flower.

Uses: Dehydration or French Fries.

Strengths: Light russet net, looks like Century

Weaknesses: Drop, flat, rough, sprouts, nice, internal browning, dry rot.

A92030-5- Oblong Russet. Parentage (A8603-20 x A83043-12). Cross made and selected in Aberdeen. Medium maturity. Medium-small vine size. White flower color.

Uses: Dual.

Strengths: Good yield, BOT, fat tubers,

Weaknesses: Large tubers had poor shape, pointed to stem end, air cracks and very light russet skin, knobs.

A92294-6 - Long White/Russet. Parentage (A86332-7 x Summit Russet). Cross made and selected in Aberdeen. Medium maturity. Medium-large vine size. White flower color.

Uses: Process.

Strengths:

Weaknesses: Drop, sugar ends, pronounced lenticels, red at apical end, powdery scab, air cracks, not especially nice, rough, feathering, crooked tubers.

A93157-6LS – Oblong Russet. Parentage (A87149-4 x A88108-7). Cross made and selected in Aberdeen. Medium-late maturity. Medium vine size. White flower color.

Uses: Dual.

Strengths: Not bad nice shape, small, BOT.

Weaknesses: Rhizoctonia, fat tubers, sugar ends, pointed to bud end, growth cracks, blocky.

A95074-6 – Long White. Parentage (Agria x Summit Russet). Cross made and selected in Aberdeen. Medium-late maturity. Large vine size. White flower color.

Uses: Dual.

Strengths: Yield, nice yellow flesh color.

Weaknesses: Drop, variable size, feathering, enlarged lenticels rough, not that nice, rough, need to size, feathering, small tubers.

A95109-1 – Long Russet. Parentage (A8893-1 x Summit Russet). Cross made and selected in Aberdeen. Medium-early maturity. Medium-small vine size. White flower color.

Uses: Dual.

Strengths: BOT, nice

Weaknesses: Raised eyes on large tubers, nice, sugar ends, parent, pressure cracks, light net color, feathering.

A95409-1 – Long Russet. Parentage (A88236-4 x A89512-3). Cross made in and selected in Aberdeen. Medium-late maturity. Medium vine size. Red-purple flower color.

Uses: Dual purpose.

Strengths: Large tubers.

Weaknesses: Powdery scab, feathering, rough drop.

A96095-3 – Long Russet. Parentage (A89384-10 x A89512-3). Cross made in and selected in Aberdeen. Medium-late maturity. Medium-large vine size. Red-purple flower color.

Uses: Dual purpose.

Strengths:

Weaknesses: Powdery scab, some black interior, curved tubers, thin, too long, pointed to stem end, drop.

A96104-2 – Long Russet. Parentage (A89384-10 x A91194-4). Cross made in and selected in Aberdeen. Medium-maturity. Medium vine size. White flower color.

Uses: Dual purpose.

Strengths:

Weaknesses: Powdery scab, late, small, poor shape, Rhizoctonia, drop.

A96741-1R –Round Red. Parentage (IdaRose x Mazama). Cross made and selected in Aberdeen. Medium maturity. Medium-small vine size. Red-purple flower color.

Uses: Fresh.

Strengths: Nice, heavy set.

Weaknesses: Drop, small tubers, heat sprouts, feathering, nipple knobs, greenheads, stem end rot, silver scurf, flesh not very white, heat sprouts, poor shape.

A96741-2R –Round Red. Parentage (IdaRose x Mazama). Cross made and selected in Aberdeen. Late maturity. Large vine size. Red-purple flower color.

Uses: Fresh.

Strengths: BOT, nice color, nice

Weaknesses: Small tubers, flat, poor shape, heat sprouts, feathering, stem attachment, rough, Rhizoctonia stem end blackening, growth cracks a little rough, late, some rot.

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

Uses: Fresh.

Strengths: Nice, BOT, nice shape.

Weaknesses: , small, heat necrosis, drop, late,

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

Uses: Chip.

Strengths: Nice interior, good, nice.

Weaknesses:

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

Uses: Specialty.

Strengths: Nice shape, dark yellow flesh.

Weaknesses: Flat, poor shape, pointed to stem end, buff skin on stem end, rough, drop ++, feathering.

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

Uses: Fresh/Specialty.

Strengths

Weaknesses: Rough shape, small tubers, road map, stem attachments center pith and cortex is white, purple flesh color more intense at eyes, drop.

AO96160-3 - Oblong Russet. Parentage (A89384-10 x A89512-3). Cross made in Aberdeen and selected in Corvallis, Oregon. Medium-late maturity. Medium-large vine size. Red-purple flower color.

Uses: Dual.

Strengths: Nice interior, not bad.

Weaknesses: OK but drop, late, rough, heat sprouts.

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

Uses: Dual purpose.

Strengths:

Weaknesses: Cracks, pointed to stem end, pointed to bud end, poor shape, drop.

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

Uses: Dual purpose.

Strengths: Nice

Weaknesses: Small heat sprouts, late, drop.

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

Uses: Dual purpose.

Strengths:

Weaknesses: Pointed to apical end, growth cracks, heat sprouts, very late, feathering, poor shape, small, drop.

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

Uses: Fresh.

Strengths: Nice net, very nice appearance, BOT++, nice interior, uniform longer than Norkotah.

Weaknesses: Blocky, rough, tuber moth, Rhizoctonia, some curved and pointed, some shriveling, small tubers.

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

Uses: Fresh.

Strengths: OK, nice heavy net, BOT.

Weaknesses: Deeper eyes, pointed to apical end, pointed to stem end, some curved, feathering blocky, rough heat necrosis.

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

Uses: Fresh.

Strengths: BOT, very nice, good internal, some large tubers.

Weaknesses: Rhizoctonia, rough, blocky, heat sprouts, small tubers, variable size tubers, sprouts, some shriveling, ugly net on stem end.

AOTX95265-4Ru - Long Russet. Parentage (A89216-9 x A86102-6). Cross made in Aberdeen, tuberling produced in Corvallis, Oregon and selected in Texas. Medium-early maturity. Large vine size.

Uses: Fresh.

Strengths: Nice, good internal, hollow heart resistant, longest clone, BOT for all reps.

Weaknesses: Rhizoctonia, nipple knobs, some crooked, bruising, some greening, a little rough, skinny, pointed feathering.

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

Uses: Fresh.

Strengths: BOT, yield, Will store, nice, large tubers.

Weaknesses: Rough, blocky, pointed, drop?, ugly, some shape problems, stem end bruise, some shriveling, curved tubers, pointed, rough, small.

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

Uses: Fresh.

Strengths: Very nice, good internal, BOT++.

Weaknesses: Drop?, heat sprouts, Rhizoctonia, skinny tubers, some shrinking, sugar end pointed, curved, drop?++, pointed to apical end rot, rough, uneven net pointed to bud end.

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

Uses: Fresh.

Strengths: BOT+++ , good shape and internal, some very large tubers, longer than Norkotah.

Weaknesses: Some rot, blocky, Rhizoctonia, not as nice as other selections, hollow heart, smaller, drop? poor net too long?.

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

Uses: Chip.

Strengths: Yield, nice internal, candidate.

Weaknesses: Heat sprouts.

AOTX95309-2W - Long White. Parentage (A9055-8LS x A89163-3LS). Cross made in Aberdeen, tuberling grown in Corvallis, Oregon and selected in Texas. Late maturity. Large vine size.

Uses: Chip.

Strengths: Nice shape, nice interior, candidate,

Weaknesses: Rough, heat sprouts, variable size, heat necrosis, small.

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

Uses: Chip.

Strengths: Nice shape, nice interior.

Weaknesses: Drop, Rhizoctonia, sprouts, heat sprouts, rough, green head, drop++, feathering.

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

Uses: Fresh.

Strengths: BOT, nice shape and internal, good yield, nice++, longer than Nork BOT+* yield+.

Weaknesses: Variable size, drop, little rough, some dry rot, shape not as nice curved drop+, heat sprouts, small, Blackspot bruise??, some pointed to apical end, Rhizoctonia, heat necrosis.

AOTX96084-1Ru - Oblong Russet Parentage (A8792-1 x A86102-6). Cross made in Aberdeen, tuberling grown in Corvallis, Oregon and selected in Texas. Medium-early maturity. Large vine size.

Uses: Fresh.

Strengths: BOT, OK, nice shape and internal, keep.

Weaknesses: Little short, rough, rot, blocky, lenticels, drop? Rhizoctonia, small, heat sprouts, Blackspot bruise??, drop, heat necrosis.

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

Uses: Fresh.

Strengths: BOT, nice, good internal, large tubers, yield+.

Weaknesses: Heat sprouts, pointed, poor shape, crooked, rough, blocky, variable size, knobs, drop?+++, very long, some curved and pointed, Rhizoctonia.

AOTX96216-1Ru - Long Russet. Parentage (A9082-2 x A86102-6). Cross made in Aberdeen, tuberling grown in Corvallis, Oregon and selected in Texas. Medium-early maturity. Large vine size.

Uses: Fresh.

Strengths: BOT, nice shape and internal, nice, keep, large tubers.

Weaknesses: Heat sprouts, little rough, small secondary tubers at eye, heat necrosis, curved, drop, so so, pointed, feathering ugly, poor shape, Rhizoctonia.

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

Uses: Fresh.

Strengths: BOT, nice, nice internal, keep nice shape.

Weaknesses: Drop, heat sprouts, rot, Rhizoctonia, some rot, rough, poor shape, late.

AOTX96216-3Ru - Oblong Russet. Parentage (A89216-9 x A86102-6). Cross made in Aberdeen, tuberling grown in Corvallis, Oregon and selected in Texas. Medium-early maturity. Medium-large vine size.

Uses: Fresh.

Strengths: BOT, very nice smooth keep, nice shape.

Weaknesses: Rot, rough, poor shape, knobs, clunker, late, rough, some pointed to apical end.

AOTX96580-1W - Oblong White. Parentage (A8836-5 x COO83008-1). Cross made in Aberdeen, tuberling grown in Corvallis, Oregon and selected in Texas. Medium maturity. Large vine size.

Uses: Chip.

Strengths: Nice interior.

Weaknesses: Drop, variable size, rough, shape? sprouting, hollow heart, rough, feathering, heat necrosis, flat.

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

Uses: Fresh.

Strengths: BOT, yield, nice shape and internal, very long, keep, nice.

Weaknesses: Drop++?, some rot blocky, poor shape, small tubers, rough.

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

Uses: Fresh.

Strengths: BOT+, very nice, nice shape and internal, BOT for shape, keep uniform, smooth.

Weaknesses: Drop?, smaller, rot, blocky, heat necrosis, shrinkage, different, small, short, some pointed to stem end.

AOTX98183-2Ru – Long Russet. Parentage (A90621-11LS x A9230-5). Cross made in Aberdeen, tuberling produced in Corvallis, Oregon and selected in Texas.

Uses: Fresh.

Strengths:

Weaknesses: Mixed size, uneven net, not as nice, drop+, blocky, light fine net, rough.

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

Uses: Chip.

Strengths: High yield, high specific gravity, low sugar buildup in storage, chips well directly from field short term storage at 50o, uniform tuber size and shape, tolerant to scab and Verticillium wilt, resistant to pink eye and highly resistant to race A of golden nematode, PVX and tuber net necrosis.

Weaknesses: Very susceptible to internal heat necrosis, particularly in sandy soils in warm, dry seasons, Susceptible to hollow heart, shatter bruise, Rhizoctonia and storage rots, buff skin.

ATTX01175-1R - Oblong Red Parentage (MN17922 x Mazama). Cross made in Aberdeen, tuberling grown and selected in Texas.

Uses: Fresh

Strengths: nice color, good shape BOT-.

Weaknesses: Vascular discoloration, feathering.

ATTX01180-1R - Round Red Parentage (ND5084-3R x A92657-1R). Cross made in Aberdeen, tuberling grown and selected in Texas.

Uses: Fresh

Strengths: nice flesh, nice shape

Weaknesses: large tubers are rough

ATTX01180-4R - Round Red Parentage (ND5084-3R x A92657-1R). Cross made in Aberdeen, tuberling grown and selected in Texas

Uses: Fresh

Strengths: nice shape.

Weaknesses: Vascular discoloration, feathering silver scurf.

ATTX8823-2W - Round White. Parentage (ND2051-1Ru x A7961-1). cross made in Aberdeen, tuberling produced in College Station, and selected in Texas Medium maturity. Large vine size.

Uses: Chip.

Strengths: Nice, BOT++, candidate, nice.

Weaknesses: Oversize, shape? a little rough, stem attachment.

ATTX88654-2Pu/Y - Oblong Purple. Parentage (PI343201 x Gurney's Purple 1). Cross made in Aberdeen, tuberling grown and selected in Texas. Early maturity. Medium vine size.

Uses: Fresh/Specialty.

Strengths: BOT, nice internals, smooth, flesh color-3.5, keep, nice shape.

Weaknesses: Drop, heat sprouts, growth cracks, poor russeting, poor skin, alligator hide, road map, faded purple skin, pointed to stem end, silver scurf.

ATTX88654-3W/RE/Y - Oblong Red/eye Parentage (PI343201 x Gurney's Purple 1). Cross made in Aberdeen, tuberling grown and selected in Texas. Early maturity. Medium vine size.

Uses: Fresh/Specialty.

Strengths: keep, smooth, nice++,

Weaknesses:.

ATTX961014-1R/Y - Oblong Red/Yellow. Parentage (A90601-2RDY X MAZAMA). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses: Specialty.

Strengths: keep++ BOT, nice internal Spec/High AntiOx keep.

Weaknesses: drop, lenticels, road map+, silver scurf+, heat sprouts.

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

Uses: Specialty.

Strengths: keep, BOT-.

Weaknesses: pointed to stem end, silver scurf, road map.

ATTX98444-3R/Y - Oblong Red/Yellow. Parentage (A83360-9R X T48YF). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses: Specialty.

Strengths: Nice

Weaknesses: Variable size, drop, heat sprouts, chain tubers, LaSoda like shape, rough

ATTX98452-9R - Oblong Red. Parentage (A93456-6R x A92657-1R). Cross made in Aberdeen, tuberling grown and selected in Texas. Late maturity. Large vine size.

Uses: Fresh.

Strengths: Nice, large tubers, yield+, BOT, nice smooth, nice interior, keep

Weaknesses: Some oversize, stem end rot, Rhizoctonia, heat sprouts, road map, Rhizoctonia.

ATTX98453-6R - Round Red. Parentage (A93490-1R x A91846-5R). Cross made in Aberdeen, tuberling grown and selected in Texas. Late maturity. Medium-large vine size.

Uses: Fresh.

Strengths: BOT, nice white interior, smooth skin, nice, keep nice shape.

Weaknesses: Flat, stem end rot, mix?, will shrivel, skinning, some buff skin deep eyes.

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

Uses: Specialty.

Strengths: keep, large tubers, nice size.

Weaknesses: heat sprouts+, road map+.

ATTX98462-9R/Y - Oblong Red Parentage (ATD251-5RY X BO811-13RY). Cross made in Aberdeen, tuberling grown and selected in Texas.

Uses: Specialty.

Strengths: Keep, BOT-

Weaknesses: Heat sprouts, buff.

ATTX98465-1R/Y - Round Red. Parentage (ATD252-5R x A89655-5DY). Cross made in Aberdeen, tuberling grown and selected in Texas. Medium-early maturity. Small vine size.

Uses: Specialty.

Strengths: Flesh color -4.4, dark yellow flesh Yield+, Yield, deep yellow flesh

Weaknesses: Drop, deep eyes, many small secondary tubers produced at tuber eyes, second growth pumpkin shape, late, rough like RLS, parent, stem attachment, silver scurf, poor shape, short dormancy, poor net, eye sprouts, silver scurf, road map.

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

Uses: Chip.

Strengths: Red streak in vascular, keep, smooth.

Weaknesses: Lenticels.

ATTX98468-3R/Y - Round Red Parentage (ATD252-5R X A93457-4R). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses: Specialty.

Strengths: Keep, BOT-.

Weaknesses: road map+, silver scurf+.

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

Uses: Specialty.

Strengths: Keep+, nice flesh.

Weaknesses: rough+, feathering++, heat sprouts.

ATTX98471-4R/Y - Round Red Parentage (ATD252-5R X BO811-13RY). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses:

Strengths: Yellow flesh

Weaknesses: Heat sprouts

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

Uses: Specialty

Strengths: Spec/High Anti-Ox keep, red splash, nice interior.

Weaknesses: deep nose,

ATTX98493-2P/P - Oblong-Long Purple Parentage (P94A2-3Y X BO811-13RY). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses: Specialty

Strengths: Nice dark flesh BOT.

Weaknesses: Rough, eye brows

ATTX98497-1R-Y/Y - Oblong Red. Parentage (P94A2-4Y X A91848-1R). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas

Uses: Specialty.

Strengths: Yellow skin with red splash, dark yellow flesh, boiler.

Weaknesses: Late, road map, heat sprouts, small tubers, drop++?

ATTX98500-3W-P/Y – Oblong-Pinto/Yellow. Parentage (P94A2-4Y X Granola). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses: Specialty.

Strengths: Smooth, unique appearance, keep.

Weaknesses: Flat, second growth, late, heat sprouts, pointed, road map, flat, some pointed to stem end.

ATTX98509-3R/Y - Round Red. Parentage (T48YF x A92657-1R). Cross made in Aberdeen, tuberling grown and selected in Texas. Medium maturity. Large vine size.

Uses: Fresh.

Strengths: Nice smooth.

Weaknesses: Small tubers, skin a little buff, skin not that attractive, poor net, buff, flat.

ATTX98510-1R/Y – Oblong-Red/Yellow. Parentage (T48YF X A93456-6R). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses: Specialty.

Strengths: keep, BOT.

Weaknesses: Small tubers road map, silver scurf+.

ATTX98510-3R/Y – Oblong-Red/Yellow. Parentage (T48YF X A93456-6R). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses: Specialty.

Strengths:

Weaknesses: Small tubers, poor shape, heat sprouts, rough, small, drop.

ATTX98514-1R/Y - Oblong Red. Parentage (T51YF x A93456-6R). Cross made in Aberdeen, tuberling grown and selected in Texas. Medium maturity. Large vine size.

Uses: Fresh.

Strengths: BOT keep, flesh color-3.8, nice interior color, nice keep.

Weaknesses: Rough, small tubers, poor flesh, feathering, heat sprouts, drop?, silver scurf.

ATTX98514-3R/Y - Round Red/Yellow. Parentage (T51YF X A93456-6R). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses: Specialty.

Strengths: Clam shell, small tubers, nice.

Weaknesses: Heat sprouts, late drop+?.

ATTX98516-1W/Y – Oblong White/Yellow. Parentage (T51YF X BO811-13RY). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses: Specialty.

Strengths: Nice keep, nice flesh, boiler.

Weaknesses: Internal problems, close set, chain tubers, drop+++, poor shape, heat sprouts, variable flesh color.

ATTX98518-11Pu/Y – Oblong Purple/Yellow Parentage (T48YF X A93456-6R). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses: Specialty.

Strengths:

Weaknesses: Silver scurf, rough, heat sprouts, small.

ATX98518-4Pu/Y - Round Purple. Parentage (Agria x A83350-9R). Cross made in Aberdeen, tuberling grown and selected in Texas. Late maturity. Large vine size.

Uses: Fresh.

Strengths: Nice internals, parent.

Weaknesses: Drop, late, stolons, stem attachment, feathering, rough, heat sprouts, Flesh color-3.1, scab, Rhizoctonia.

ATX99321-1R/Y – Round Red/Yellow. Parentage (A89655-5DY X A92653-6R). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses: Specialty.

Strengths: Yellow flesh boiler, nice shape, keep.

Weaknesses: Small round tubers, poor shape, heat sprouts.

ATX99325-1P - Oblong Purple Parentage (AGRIA X W1100R). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses: Specialty.

Strengths: BOT, nice shape and size.

Weaknesses: Eye brows, heat sprouts, market?, drop, feathering+, silver scurf+, drop?.

ATX00144-2R - Round Red Parentage (Century Russet x A91048-3). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses: Specialty.

Strengths: Keep, buff skin, nice shape, small tubers.

Weaknesses: Road map ++drop?.

ATX01188-1R - Oblong Red Parentage (Amadeus x Winema). Cross made in Aberdeen, tuberling produced in College Station, and selected in Texas.

Uses: Specialty.

Strengths: Nice color, nice shape, good skin set, BOT, keep.

Weaknesses: Mix.

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

Uses: Fresh.

Strengths: Large tubers, large fat tubers, BOT for flesh BOT, very nice internals.

Weaknesses: Rough, blocky, growth cracks, drop, knobs.

ATX84706-2Ru - Oblong Russet. Parentage (A738-1 x COA7906-5). Cross made in Aberdeen and selected in Texas. Late maturity. Large vine size.

Uses: Dual purpose

Strengths: Apparent resistance to hollow heart, fast bulking, good specific gravity, processing qualities, high early yields, hollow heart resistant.

Weaknesses: Light russet, blocky, drop, larger, blocky, rough, knobs, skinning, thumbnail pressure cracks, hollow heart, oversize, lunker.

ATX85404-8W - Round White. Parentage (Gemchip x ND860-2). Cross 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.

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.

ATX88481-1Pu - Oblong Purple. Parentage (A83302-1 x Bison). Cross made in Aberdeen and selected in Texas. Early maturity. Medium vine size.

Uses: Fresh.

Strengths: BOT, white flesh, keep, nice, nice interior.

Weaknesses: Close set, silver scurf, drop+++, heat sprouts Drop?, purple skin, flesh very light yellow, stem end protrusion, feathering.

ATX91137-1Ru - Oblong Russet. Parentage (A81473-2 x A83343-12). Cross made in Aberdeen and selected in Texas. Medium-early maturity. Large vine size.

Uses: Fresh.

Strengths: BOT, very nice shape and internal, keep, no air cracks, attractive, BOT for all reps.

Weaknesses: Drop?, Rhizoctonia, some rot, flat tubers blocky, shape not so good, rough, blocky, short, net not as good as Norkotah.

ATX9202-1Ru - Long Russet. Parentage (A8343-12 x A8495-1). Cross made in Aberdeen and selected in Texas. Medium maturity. Large vine size.

Uses: Fresh.

Strengths:

Weaknesses: Drop, misshapen, growth cracks, knobs, blocky, rough, some rot, poor shape, poor internal, knobs++, so so.

ATX92230-1Ru - Oblong Russet. Parentage: (A8603-13 x A8495-1). Cross made in Aberdeen and selected in Texas. Medium-late maturity. Large vine size. White flower color.

Uses: Fresh.

Strengths: BOT, OK internals.

Weaknesses: Rough, knobs, short but good, some rot, feathering, pronounced lenticels, not bad, small, drop++, poor shape, drop?, OK, poor net, hollow heart on bud end.

ATX9332-8Ru - Oblong Russet. Parentage (A8850-1 x A88288-1). Cross made in Aberdeen and selected in Texas. Late maturity. Large vine size.

Uses: Fresh.

Strengths: Very white flesh, not bad blocky, nice firm internal, very nice, BOT smooth.

Weaknesses: Blocky, short, drop?, rough, poor net, Rhizoctonia, pronounced lenticels, ugly net, pointed to stem end, so so, drop, rot alligator hide, ugly net, heat necrosis.

ATX97195-1Ru - Oblong Russet. Parentage (A89149-7 x A88236-6). Cross made in Aberdeen and selected in Texas. Medium-early maturity. Large vine size.

Uses: Fresh.

Strengths: Very nice, nice internal, yield+ BOT.

Weaknesses: Drop, rough, rot, poor shape, smaller, pointed, curved, apical nipples, heat necrosis, blocky.

ATX99049-1Ru - Oblong Russet, Parentage (A84118-3 x B9922-11). Cross made in Aberdeen and selected in Texas. Medium-early maturity. Large vine size.

Uses: Fresh.

Strength: BOT, nice, nice shape and internal.

Weaknesses: Drop, rot, rough, Rhizoctonia, poor shape, smaller, drop, pointed to apical end.

ATX99092-1Ru - Long Russet. Parentage (A9305-10 x A9014-2). Cross made in Aberdeen and selected in Texas. Medium-early maturity. Large vine size.

Uses: Fresh.

Strengths: OK, very nice, nice internal, short tubers are OK.

Weaknesses: Drop, rot, rough, Rhizoctonia, poor shape, smaller, variable size, some pointed, some tuber moth, drop, pointed to apical end, mix?, blocky.

ATX99331-1Pu/Y - Round-Oblong Purple Parentage (INCA GOLD X COA94019-5R). Cross made in Aberdeen and selected in Texas.

Uses: Fresh.

Strengths: Nice shape, keep+.

Weaknesses: Road map

B0766-3T - Round White. Parentage (B0243-18 x Costal Chip). Cross made and selected in Beltsville, Maryland. Medium-early maturity. Medium vine size. White flower color.

Uses: Chip.

Strengths: Nice, yield, nice interior.

Weaknesses: Rhizoctonia, rough, internal browning.

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

Uses: Specialty.

Strengths: BOT+++ , nice, good color, nice interior, flesh color-3.5, deep yellow flesh.

Weaknesses: greenhead, pear shape a little rough, Rhizoctonia, rough, pointed to stem end, enlarged lenticels, growth cracks, rot, shape?, pointed to apical end rough++, variable shape.

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

Uses: Specialty.

Strengths: BOT, keep, nice, Flesh color-3.0, Good yield nice skin, BOT-++.

Weakness:

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

Uses: Specialty.

Strengths: Very nice, nice interior, nice shape, keep, BOT++, early, smooth.

Weaknesses: Road map Rhizoctonia, feathering.

Chipeta – Oblong White. Parentage (WNC612-13 x Wischip). Cross made in Aberdeen and selected in Colorado. Released by USDA-ARS, Aberdeen, Aberdeen, and the 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

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.

CO94035-15RU - Oblong Russet. Parentage (AO80432-1 x AC83064-6). Cross made and selected in Colorado. Late maturity. Large vine size.

Uses: Dual purpose

Strengths: Nice.

Weaknesses: Drop, rot, curved tuber, flat, poor shape, Rhizoctonia, pronounced lenticels, ugly net, late, pointed, ugly net, heat spouts, crooked.

CO94157-2W/Y - Oblong White. Parentage (Russet Legend x German Butterball). Cross made and selected in Colorado. Medium-early maturity. Medium-Large vine size. White flower color.

Uses: Specialty.

Strengths: Light russet, nice smooth skin smooth.

Weaknesses: Drop, flesh color-1.8, flesh not very yellow, second growth, road map (scale-like), pear shape, heat sprouts, variable flesh color, small tubers.

CO94165-3P/P - Oblong Purple. Parentage (ND2008-2 x All Blue). Cross made and selected in Colorado. Late maturity. Large vine size.

Uses: Specialty.

Strengths: BOT, flesh color-4, superior to All Blue dark purple flesh, smooth, heavy set, very purple flesh.

Weaknesses: Road map, variable shape, rough, poor shape.

CO94183-1R/R - Oblong Red. Parentage (All Red x ND2109-7). Cross made and selected in Colorado. Medium-early maturity. Large vine size.

Uses: Fresh.

Strengths: OK, nice exterior color, yield, good skin color, nice.

Weaknesses: Flesh color-2.9, not that red flesh, silver scurf, scab?, stem attachment, drop, bad shape, close set, pear shape, pointed to stem end, flesh color radiates from eyes, flat, poor yield, road map, silver scurf.

CO95051-7W - Oblong White. Parentage (AC88456-6 x BC0894-2). Cross made and selected in Colorado. Medium maturity. Medium vine size. Purple flower color.

Uses: Chip.

Strengths: Nice, nice shape.

Weaknesses: Long stolons, poor internals, heat necrosis, stem end discoloration.

CO95086-8RU - Oblong Russet. Parentage (CO87009-4 x Silverton Russet). Cross made and selected in Colorado. Early maturity. Medium vine size. Red-purple flower color.

Uses: Process.

Strengths:

Weaknesses: Bad Rhizoctonia, severe vascular discoloration, heat sprouts, poor shape, pointed to stem end, rot, drop.

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

Uses: Fresh.

Strengths:

Weaknesses: Pointed to stem end, poor shape, small, late, Rhizoctonia, pointed, small, feathering, drop.

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

Uses: Chip.

Strengths: BOT, nice medium size.

Weaknesses: Stem end rot, nice.

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

Uses: Chip.

Strengths: Very good.

Weaknesses: Deep nose.

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

Uses: Chip.

Strengths:

Weaknesses: Flat, feathering.

CO97078-5R - Round Red. Parentage (CO86142-3 x Redsen). Cross made and selected in Colorado. Medium-early maturity. Medium vine size. Purple flower color.

Uses: Fresh.

Strengths: Nice red color, nice, nice interior, BOT.

Weaknesses: Late, feathering.

CO97137-1W – Oblong–White. Parentage (NDO2904-7 x AC89047-1). Cross made and selected in Colorado. Medium maturity. Large vine size. White flower color.

Uses: Fresh.

Strengths:

Weaknesses: Pointed to apical end, skinny, slight stem end discoloration, pointed to stem end, drop.

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

Uses: Chip.

Strengths: Nice internal, nice shape, dark yellow flesh, BOT.

Weaknesses: Flat, road map many small tuber drop, feathering.

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

Uses: Specialty.

Strengths: Nice color.

Weaknesses: Road map, poor shape, poor flesh color, feathering, pointed to stem end.

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

Uses: Specialty.

Strengths: BOT, nice shape, buff, nice internal.

Weaknesses: Ugly net, road map, poor shape, pointed to stem end.

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

Uses: Specialty.

Strengths: Nice yellow flesh, nice internal.

Weaknesses: Hollow heart, growth crack, too large, feathering, poor shape, pointed, drop severe road map, green sprout.

COA96141-2C - Oblong White. Parentage (BCO894-2 x AC73340-2). Cross made in Colorado and selected in Aberdeen. Medium maturity. Medium vine size. White flower color

Uses: Chip.

Strengths: Nice.

Weaknesses: Shape?, rough, stem end rot, nipple knobs.

COA96142-3C - Round Buff. Parentage (BCO894-2 x Ivory Crisp). Cross made in Colorado and selected in Aberdeen. Medium-early maturity. Medium vine size. Red-purple flower color.

Uses: Chip.

Strengths: Nice interior.

Weaknesses: Flat Rhizoctonia, lunker, oversize.

COTX00104-6R – Oblong-Red. Parentage (ND3574-5R x C086218-2). Cross made in Colorado and selected in Texas. Medium-early maturity. Medium vine size.

Uses: Fresh.

Strengths:

Weaknesses: Short dormancy, Rhizoctonia, road map.

COTX00197-1W – Oblong White. Parentage (A91790-13W X NDTX4930-5W). Cross made in Colorado and selected in Texas.

Uses: Chip.

Strengths:

Weaknesses:

COTX00206-1W - Round White. Parentage (AC87340-2W x NDTX4930-5W). Cross made in Colorado and selected in Texas. Early maturity. Large vine size.

Uses: Chip.

Strengths: Nice interior, nice shape.

Weaknesses: Low yield.

COTX00212-1Ru - Oblong Russet. Parentage (AC90636-3RU x AC92009-4RU). Cross made in Colorado and selected in Texas. Medium maturity. Large vine size.

Uses: Fresh.

Strengths: BOT, yield.

Weaknesses: Raised eyes, Rhizoctonia, blocky, shape smaller, rough, close set, poor shape, ugly net, rough, drop+++ , feathering, russet net not as nice.

COTX00254-2W – Oblong White. Parentage (AO95496-4 x NDTX4930-5W). Cross made in Colorado and selected in Texas.

Uses: Chip.

Strengths:

Weaknesses:

COTX00290-3R - Round Red Parentage (CO94019-1R XCO89097-2R). Cross made in Colorado and selected in Texas.

Uses: Fresh.

Strengths: Keep

Weaknesses: Poor shape good skin set.

COTX00328-1Pu/Ypu Oblong Purple Parentage (ATD252-5R X BO811-13RY). Cross made in Colorado and selected in Texas.

Uses: Chip.

Strengths: Keep.

Weaknesses: Rough, vascular ring, road map.

COTX00411-4R - Oblong Red Parentage (German Butterball X NDC5281-2R). Cross made in Colorado and selected in Texas.

Uses: Fresh.

Strengths: Keep.

Weaknesses: Silver scurf+, deep nose+, drop+++?.

COTX01294-1W – Oblong White. Parentage (A89655-5DY X A92653-6R). Cross made in Colorado and selected in Texas.

Uses: Chip.

Strengths:

Weaknesses: Drop+++.

COTX01397-7R/Y - Oblong Red Parentage (VC1015-1R/Y x Winema). Cross made in Colorado and selected in Texas.

Uses: Specialty.

Strengths: Keep.

Weaknesses:

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

Uses: Specialty.

Strengths: Keep, BOT+-.

Weaknesses: Road map, silver scurf.

COTX01440-1Ru - Oblong Russet Parentage (Wallowa Russet x Silverton Russet). Cross made in Colorado and selected in Texas.

Uses: Fresh.

Strengths: Smooth.

Weaknesses: Ugly net, heat sprouts, drop++.

COTX94016-2W - Round White. Parentage (A84095-1 x CO86030-1). Cross made in Colorado and selected in Texas. Medium maturity. Large vine size.

Uses: Chip.

Strengths:

Weaknesses: Drop, oversize, poor shape, greenhead, poor internals, very rough, deep eyes, feathering.

COTX94218-1R – Round Red. Parentage (Red Ruby x Red Gold). Cross made in Colorado and selected in Texas. Medium maturity. Large vine size.

Uses: Fresh.

Strengths: Nice appearance, nice internal smooth, keep, nice shape, small tubers.

Weaknesses: Many small tubers, Joe Allen type, drop?, lenticels, small, road map, skin color faded.

COTX99045-2Ru/Y - Oblong light Russet. Parentage (A84095-1 x CO86030-1). Cross made in Colorado and selected in Texas. Late maturity. Large vine size.

Uses: Specialty.

Strengths: Keep, BOT.

Weaknesses: Drop, small need to bulk, thin tubers drop++?.

COTX99238-2W - Round-Oblong White. Parentage (ND2676-10 x AC87340-2). Cross made in Colorado and selected in Texas. Late maturity. Large vine size.

Uses: Chip.

Strengths: Nice shape.

Weaknesses:

COTX99314-1W - Round White. Parentage (CHIPETA X ND2676-10). Cross made in Colorado and selected in Texas.

Uses: Chip.

Strengths:

Weaknesses: Scab, Rhizoctonia.

Courage – Round Red/Yellow. Cross made in the Netherlands. Medium-early maturity. Flesh color light yellow

Uses: Specialty.

Strengths: Nice flesh.

Weaknesses: Poor shape, flat buff, road map, stem end nipples rough, scale, unattractive buff skin, green vine, heat spouts, deep nose.

Dark Red Norland - Oblong Red. Parentage (Redkote x ND626). Cross made and selected in North Dakota. Dark Red Norland is a clonal selection made by Stan Barrett of Texas and propagated by Gene Shaver, Nebraska. Early maturity. Medium vine size. Purple flower color.

Uses: Fresh.

Strengths: Early maturity, dark red tubers. High resistance to PVA, and moderate resistance to common scab, PVY and PLRV.

Weaknesses: Tuber color will fade if allowed to fully mature, tubers exhibit variable tuber color and size, enlarged lenticels, will heat sprout and hollow heart, susceptible to PVS and early and late blights.

Golden Sunburst– Oblong White/Yellow. Cross made in Germany. Medium maturity.

Uses: Specialty.

Strengths: Nice, nice flesh.

Weaknesses: Pointed to stem end, chain tubers, heat sprouts, feathering, dumb bell, drop+, rough poor shape, pointed to stem end, poor internal.

Ivory Crisp - Round White. Parentage (ND292-1 x A77268-4). Cross made in North Dakota and selected in Corvallis, Oregon. Medium maturity. Medium vine size. White flower color.

Uses: Chip.

Strengths: BOT, nice.

Weaknesses: Greenhead, stem end discoloration, powdery scab, poor shape.

KLONDYKE ROSE Long Red. Cross made in Netherlands.

Uses: Specialty
Strengths:
Weaknesses: Heat sprouts, pointed to stem end.

MWTX2609-4Ru - Long Light Russet. Parentage (Russet Burbank x (Ontario x 4 x hybrid). Cross made in Madison, Wisconsin and selected in Texas. Late maturity. Large vine size.

Uses: Fresh.
Strengths: Yield, nice internal.
Weaknesses: Drop, rot, eye bulge, light russet, rough, pointed, poor shape and net, eyes a little deep, heat sprouts, pointed to stem end, stem nipples, feathering, not as long as -4, poor shape, drop++++, feathering, heat sprouts, bad sprouting, feathering.

MWTX2609-4Ru - Long Russet. Parentage (Russet Burbank x (Ontario x 4x hybrid). Cross made in Madison, Wisconsin and selected in Texas. Medium-late maturity. Medium vine size. White flower color.

Uses: Fresh.
Strengths: High yield, long, light net, BOT- for interior nice.
Weaknesses: Pointed, rough, drop+++ , feathering, pointed to stem end, cone shaped, poor shape, knobs eye knobs, century like, pointed to stem end.

MWTX4241-1W - Round White. Parentage (Snowden x (US-W6703-1 x US-W8829-1)). Cross made in Madison, Wisconsin and selected in Texas. Medium maturity. Large vine size.

Uses: Chip.
Strengths:
Weaknesses: Drop, rough, deep eyes, Rhizoctonia, poor shape, deep eyes, eye sprouts, drop++, feathering.

ND2470-27 - Oblong White. Parentage (Yankee Chipper x Norchip). Cross made and selected in North Dakota. Medium maturity. Large vine size. Red-purple flower color

Uses: Chip.
Strengths: Yield, nice, nice shape and interior, good skin set.
Weaknesses: Greenhead, Rhizoctonia, color variable from 3.5-4.5, silver scurf.

ND7834-2P -Oblong-Long Purple Parentage (NorDonna x ND5554-1R). Cross made and selected in North Dakota.

Uses: Fresh/Chip.
Strengths: Nice shape smooth.
Weaknesses: Internal like all blue, chip?.

ND8083b-1pY - Round-Oblong Red Parentage (Dakota Jewel and Jacqueline Lee). Cross made and selected in North Dakota.

Uses: Fresh
Strengths: Red yellow flesh, many small tubers, boiler.
Weaknesses: Drop.

ND8362C-2 - Round White. Cross made and selected in North Dakota.

Uses: Chip.
Strengths: Nice shape.
Weaknesses:

NDA5507-3YF - Oblong White. Parentage (Brodick x Yukon Gold). Cross made in North Dakota and selected in Alberta. Medium-early maturity. Medium vine size. Red-purple flower color

Uses: Specialty.

Strengths: White with pink eyes, nice shape.

Weaknesses: Drop, red eyes, poor shape, enlarged lenticels, flat, stem attachment heat sprouts, flesh color-1.6, many small tubers, not that yellow flesh, nipple knobs at stem end, Rhizoctonia, large lenticels, feathering, pointed to stem end, buff.

NDTX028728-3W – Oblong White. Parentage (MSE149-5Y x 7188-4R). Cross made in North Dakota and selected in Texas.

Uses: Chip.

Strengths: Nice+.

Weaknesses: Very large tubers, feathering, hollow heart, deep nose.

NDTX4271-5R - Round Red. Parentage (NDTX9-1068-1R x ND2050-1R). Cross 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, BOT, nice interior.

Weaknesses: Can have buff skin, heat sprouts, Rhizoctonia.

NDTX4304-1R - Round Red. Parentage (ND1562-4R x NDTX9-1098-11R). Cross made in North Dakota and selected in Texas. Early maturity. Small-medium vine size.

Uses: Fresh.

Strengths: BOT yield+, nice exterior, hollow heart resistant, good color, very nice interior, attractive red color, BOT nice shape, nice interior.

Weaknesses: Oversize, top rot, seems to set high in bed, feathering, can skin and exhibit variability in tuber color feathering, deep nose, heat sprouts, growth cracks.

NDTX4756-1R/Y – Oblong-Red/Yellow. Parentage (3451-14R X 1618-13R). Cross made in North Dakota and selected in Texas.

Uses: Specialty.

Strengths: Keep, BOT+++ , nice, nice shape, candidate, yield+.

Weaknesses: Zippered, small tubers, poor flesh, road map, oversize.

NDTX4828-2R - Oblong Red. Parentage (ND3877-2R x NorDonna). Cross made in North Dakota and selected in Texas. Medium-early maturity. Large vine size.

Uses: Fresh.

Strengths: Nice shape, very little skinning with nice color, stores very well, nice interior, yield+.

Weaknesses: Deep eyes, rough, lenticels, silver scurf, some netting at stem end, drop early, rough silver scurf.

NDTX4847-7R - Oblong Red. Parentage (ND3900IR-3R x Fontenot). Cross made in North Dakota and selected in Texas. Medium-early maturity. Medium-large vine size.

Uses: Fresh.

Strengths: BOT*, TC?, nice internal smooth nice shape, nice.

Weaknesses: Flat, drop?, growth cracks, vascular discoloration, lenticels, second growth, poor external, feathering, small green sprouts, silver scurf+, growth cracks, Rhizoctonia.

NDTX4930-5W - Round White. Parentage (ND860-2 x A7961-1). Cross 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, BOT+++ , large tubers, candidate, nice internal, yield+.

Weaknesses: Very buff, flat, hollow heart on large tubers, rough, oversize+.

NDTX6754C-1W - Oblong White. Parentage (ND5099IB-2B x ND5433-2). Cross made in North Dakota and selected in Texas. Medium maturity. Large vine size.

Uses: Chip.

Strengths: Nice.

Weaknesses: Trace hollow heart hollow heart, deep nose, mix?, small poor internal, drop+?, buff.

NDTX6773-1W - Oblong White. Parentage (ND5175-4 x S440). Cross made in North Dakota and selected in Texas. Medium maturity. Large vine size.

Uses: Chip.

Strengths: Large tubers.

Weaknesses: Deep eyes, small, rough, drop?.

NDTX731-1R - Round Red. Parentage (ND169-10R x ND9476-5). Cross made in North Dakota and selected in Texas. Early maturity. Medium-large vine size.

Uses: Fresh.

Strengths: Uniform round tubers, BOT+, early, does not oversize.

Weaknesses: Susceptible to Rhizoctonia, rough, susceptible to hollow heart, eyes somewhat deep ugly nose.

NDTX7571-1WRE/Y Oblong White/Red Parentage (ND5084-3R x Picasso). Cross made in North Dakota and selected in Texas. .

Uses: Chip.

Strengths: keep, BOT++.

Weaknesses:

NDTX7571-3AW - Round White. Parentage (ND5084-3R x Picasso). Cross made in North Dakota and selected in Texas. Late maturity. Large vine size.

Uses: Chip.

Strengths: Nice shape and interior.

Weaknesses: Hollow heart.

NDTX7571-4AW - Round White. Parentage (ND5084-3R x Picasso). Cross made in North Dakota and selected in Texas. Late maturity. Large vine size.

Uses: Chip.

Strengths:

Weaknesses: Hollow heart, mix?.

NDTX7571-5W/Y - Round White. Parentage (ND5084-3R x Picasso). Cross made in North Dakota and selected in Texas. Late maturity. Large vine size.

Uses: Chip.

Strengths: Nice shape.

Weaknesses: Small, buff skin, low yield, small, drop?.

NDTX8555-2R/P - Oblong –Long Red Parentage (7188-4R x 5256-7R). Cross made in North Dakota and selected in Texas.

Uses: Chip.
Strengths: Keep.
Weaknesses: Road map, heat sprouts.

NY126 - Round Buff. Parentage (Keuka Gold x Pike). Cross made and selected in New York. Medium late maturity.

Uses: Specialty.
Strengths: Smooth.
Weaknesses: Somewhat flat.

PA97B3-2 - Long Russet. Parentage (A8469-5 x A77715-6). Cross made in Prosser, Washington and selected in Aberdeen. Medium maturity. Medium vine size. White flower color.

Uses: Dual.
Strengths:
Weaknesses: Rough, ugly net, drop.

PA99P20-2 – Oblong Red/Red. Parentage (N40-1 x PA96RR1-220). Cross made in Prosser, Washington and selected in Aberdeen. Medium maturity. Medium vine size. Red Purple flower color.

Uses: Dual.
Strengths:
Weaknesses: Sugar ends, drop, poor shape, pointed, curved tubers, silver scurf.

PATX99P10-1Pu/R - Oblong Red/Red. Parentage (All Red X PA96RR02-120). Cross made in Prosser, Washington, tuberling grown in Aberdeen and selected in Texas.

Uses: Dual.
Strengths: Nice?, red color in flesh from eyes, smooth. keep, chip.
Weaknesses: Hollow heart, road map+ silver scurf.

POR01PG20-12 - Oblong Red/Red. Parentage (PA97B35-2 x PA97B29-3). Cross made in Prosser, Washington and selected in Corvallis, Oregon. Medium maturity. Medium vine size. Red Purple flower color.

Uses: Dual.
Strengths: Smooth yellow/red flesh, keep, BOT- for interior.
Weaknesses: Deep eyes, drop, very late, heat sprouts, knobs, poor shape, feathering, drop, road map+, buff.

PORTX03PG22-1R/PY - Oblong Red/Red. Parentage (PA97B35-1 x PA97B36-3). Cross made in Prosser, Washington, tuberling grown in Corvallis, Oregon and selected in Texas.

Uses: Dual.
Strengths: Small tubers, nice red flesh, smooth shape, red flesh color from eyes, yield +.
Weaknesses: Buff skin, road map+, drop++, stem end nipples.

PORTX03PG25-2R/P - Long Red Parentage (PA97B35-1 x PA99P7-2). Cross made in Prosser, Washington, tuberling grown in Corvallis, Oregon and selected in Texas.

Uses:
Strengths: Fingerling, keep, BOT+++.
Weaknesses:

PORTX03PG34-4R/P - Long Red Parentage (PA99P20-2 x POROOPG2-16). Cross made in Prosser, Washington, tuberling grown in Corvallis, Oregon and selected in Texas.

Uses:

Strengths: Fingerling, keep.
Weaknesses: Not attractive exterior.

PORTX03PG59-1PINTO/Y – Oblong Purple Parentage (POROOPG9-3 x PA97B35-1)). Cross made in Prosser, Washington, tuberling grown in Corvallis, Oregon and selected in Texas.

Uses:
Strengths:
Weaknesses: Drop++++.

PORTX03PG87-1R/RY - Oblong Red/Red Yellow. Parentage (True Blue x PA97B35-3). Cross made in Prosser, Washington, tuberling grown in Corvallis, Oregon and selected in Texas.

Uses: Dual.
Strengths: Red yellow flesh
Weaknesses: Rough, heat sprouts, drop, very light red on yellow flesh, lenticels.

Ranger Russet - Long Russet. Parentage (Butte x A6595-3). Cross 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 made and selected in 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.

Russet Burbank - Long Russet. Luther Burbank reported the origin of Russet Burbank in 1914 as being 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 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 especially PVY and late blight, and very susceptible to Verticillium wilt and early blight.

RZD94-2262 - Oblong White/Yellow. Cross made and selected at the Potato Research Institute, Czech Republic.

Uses: Specialty.

Strengths: Smooth.

Weaknesses: Heat sprouts, drop+, nipple ends+, poor shape, second growth, long stolons, late, stem end nipples, rough, road map, heat sprouts.

RZD95-6643 - Oblong White. Cross made and selected at the Potato Research Institute, Czech Republic.

Uses: Specialty.

Strengths: Yield+, nice white flesh, smooth.

Weaknesses: Growth cracks, deep nose at both ends, rough, feathering, drop, poor shape, poor internals.

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.

Stampede Russet - Oblong Russet. Parentage (BR7091-1 x Lemhi Russet). Cross made in Texas, selected in Aberdeen (Aberdeen) and reselected in Alberta, Canada. Early maturity. Medium vine size.

Uses: Fresh.

Strengths: BOT, nice shape and internal, nice net very smooth BOT+.

Weaknesses: Growth cracks, tubers can be short, blocky.

TX1523-1Ru/Y (Sierra Gold™) - Round-oblong Russet/Yellow. Parentage (Krantz x Delta Gold). Cross made and selected in Texas. Early maturity. Medium vine size.

Uses: Specialty.

Strengths: BOT, flesh color-3.3, nice yield+, nice, BOT++++,

Weaknesses: Can oversize.

TX1673-2W - Oblong White. Parentage (Allagash Russet x TND 14-1Russ). Cross made and selected in Texas. Medium maturity. Large vine size.

Uses: Chip.

Strengths: Nice, nice interior. BOT, outstanding internal.

Weaknesses: Blocky, poor shape, feathering, flat pointed.

TX1674-1W/Y - Oblong-long White/Yellow. Parentage (Russet Nugget x Delta Gold). Cross made in Texas and selected in Texas. Early maturity. Medium vine size. Light lavender flower color.

Uses: Specialty.

Strengths: Red eyes, flesh color-3.0, nice, nice interior, good yield BOT+, yield+, candidate.

Weaknesses: Drop, flat, nipple knobs, poor shape, feathering, close set, slight vascular discoloration.

TXA549-1Ru - Oval Russet. Parentage (ND9687-3Ru x ND9852-1Ru). Cross 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: BOT, nice, parent, nice net and internal, smooth tubers with good skin set, high yielding, and dark attractive russet skin, appears to be resistant to early blight, BOT for internal.

Weaknesses: Blocky, Rhizoctonia, too short, drop, may not size well, tubers could be longer, pointed stem ends, susceptible to Rhizoctonia, drop+, keep, fat tubers, nice feathering uniform.

TXDH-99-1Ru - Oblong-Long Light Russet. Selected in Dalhart, Texas. Late maturity. Large vine size.

Uses: Fresh.

Strengths: Nice internal.

Weaknesses: Drop++++, knobs, heat sprouts, poor shape, Rhizoctonia, not as nice, light net, flat, pointed, greenhead, some pointed to stem end, feathering, mix, heat necrosis, eye knobs rough, pointed, not bad, drop+++ , apical nipples.

TXNS112 - (Protected – PVP) - Oblong-long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross made and selected in North Dakota. TXNS112 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: Larger than other strains nice shape and internal.

Weaknesses: Variable size, Rhizoctonia, some pointed, 3% greenhead.

TXNS223 - (Protected – PVP) - Oblong-long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross made and selected in North Dakota. TXNS 223 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: BOT, nice, yield, nice shape, net, and internal, Good yield, heavier tuber set with 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.

Weaknesses: Can produce a higher percentage of misshapen tubers than Russet Norkotah.

TXNS278 - (Protected – PVP) Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross 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.

Weaknesses: Can produce a higher percentage of misshapen tubers than Russet Norkotah.

TXNS296 - (Protected – PVP) - Oblong-long Russet. Parentage (ND95264Ru x ND9687-5Ru). Cross 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: BOT, nice.

Weaknesses: Smaller, some shape problems, rough, pointed, 5% greenhead.

TXNS410 - Oblong-long Russet. Parentage (ND95264Ru x ND9687-5Ru). Cross made and selected in North Dakota. TXNS410 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah. White flower color.

Uses: Fresh.

Strengths: Keep, nice+.

Weaknesses:

TXNS551 - Oblong-long Russet. Parentage (ND95264Ru x ND9687-5Ru). Cross made and selected in North Dakota. TXNS551 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah. White flower color.

Uses: Fresh.

Strengths: BOT, keep, nice.

Weaknesses: Drop, small tubers, feathering.

UNTX383-3WRE/Y - Round Red . Cross made in Minnesota and selected in Texas.

Uses: Specialty.

Strengths: Keep, BOT-.

Weaknesses:

VC0967-2R/Y - Oblong Red. Parentage (Agria x Redsen). Cross made in Lethbridge, Alberta and selected in Colorado. Medium-early maturity. Medium vine size. Red-purple flower color.

Uses: Fresh/Fry

Strengths: OK, nice yellow flesh, flesh color -2.8, best of all VC's.

Weaknesses: Shape, very susceptible to powdery scab, heat sprouts, flat, pointed, drop.

VC1002-3W/Y - Oblong White. Parentage (Agria x Wischip). Cross made in Lethbridge, Alberta and selected in Colorado. Medium maturity. Large vine size. White flower color.

Uses: Fresh/Specialty.

Strengths: Flesh color-3.3, yield.

Weaknesses: Drop, nipple knobs, flat, stem attachments mix, poor shape, long stolons, Rhizoctonia, ugly skin, road map, poor yield, small boilers, heat sprouts, variable shape round to long, ugly skin, road map, drop

VC1009-1W/Y - Oblong Red. Parentage (Agria x MIN12823). Cross made in Lethbridge, Alberta and selected in Colorado. Medium maturity. Large vine size. White flower color.

Uses: Fresh/Specialty.

Strengths: Good yellow color, flesh color-3.1, nice, very nice yellow flesh, smooth, nice small tubers.

Weaknesses: Drop, flat, poor shape, not that great, feathering, susceptible to heat, pear shape, stolon attachments, Rhizoctonia, poor yield.

VC1015-7R/Y - Oblong Red. Parentage (Agria x Chieftain). Cross made in Lethbridge, Alberta and selected in Colorado. Early maturity. Medium vine size. Purple flower color.

Uses: Fresh/Specialty

Strengths: Flesh color -3.7, BOT for flesh color, nice interior, Very nice yellow flesh nice flesh.

Weaknesses: Flat, light red skin, ugly exterior, poor skin color and texture, road map, buff.

VC1075-1R - Oblong Red. Parentage (ND1196-2R x Red Ruby). Cross made in Lethbridge, Alberta and selected in Colorado. Early maturity. Medium vine size. Purple flower color.

Uses: Fresh.

Strengths: Very nice, good color.

Weaknesses: Feathering, chain tubers, drop, heat sprouts, stem attachment, deep eyes, silver scurf, average, somewhat rough, ugly skin, flat, eye brows, nice, road map, drop.

VC1123-2W/Y - Oblong White . Parentage (Agria x FV9307-3). Cross made in Lethbridge, Alberta and selected in Colorado. Medium-late maturity. Large vine size. White flower color.

Uses: Fresh/Specialty.

Strengths:

Weaknesses: Drop, flesh color-3.1, alligator hide, heat sprouts, flat, (poor internal scales), road map (scale-like), second growth heat sprouts, flat, sunburn, late, ugly skin.

Yukon Gold - Oblong White/Yellow. Parentage (W5279-4 x Norgleam). Cross 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 seed pieces.

Appendix B. Parentage of potato varieties or selections-2005.

Variety or Selection	Parentage
Ackersegen	Hindenburg x Allerfruheste
Adora	Pimura x Alcmaria
Agria	Quarta x Semlo
All Blue	
Alpha	Paul Kruger x Preferent
Ambra	Duke of York x Reneta Lub B 53
Asterix	Cardinal x SVP VE 70-9
Atlantic	Wauseon x Lenape
Atlantic	Wauseon x B5141-6
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
Hertha	Dijkhuis61-133 x Konst62-374
Ilong	
Innovator	Shepody x RZ 84-2580

Variety or Selection	Parentage
Irish Crispin	Amigo x DH70-699 3a
Ivory Crisp	ND292-1 x A77268-4
KLONDYKE ROSE	
Krasaua	Visnovske Rohlic x B53
La Rouge	LaSoda x Progress
Latona	Jaerla x Nicola
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
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
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
Shepody	BakeKingxF58050 ,
Stampede Russet	BR7091-1 x Lemhi Russet
Strobrawa	MPI55 957/54 x Mira
Super Red	
Ukama	Marijke x Sirtema
Urgenta	Furore x Katahdin
Valisa	
Viking	Redskin x Nordak

Variety or Selection	Parentage
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	
A92030-5	A8603-20 x A83043-12
A92294-6	A86332-7 x Summit Russet
A93157-6LS	A87149-4 x A88108-7
A95074-6	Agria x Summit Russet
A95109-1	A8893-1 x Summit Russet
A95409-1	A88236-4 x A89512-3
A96095-3	A89384-10 x A89512-3
A96104-2	A89384-10 x A91194-4
A96741-1R	IdaRose x Mazama
A96741-2R	IdaRose x Mazama
AC96052-1RU	A81386-1 x A9014-2
AC97097-14W	Brodict x A91746-8
AC97521-1R/Y	SJP/T48YF x A91846-5R
AO96160-3	A89384-10 x A89512-3
AO96164-1	A89384-10 x A91194-4
AOA95154-1	Bannock x A89152-4
AOA95155-7	Bannock x A89163-3LS
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
AOTX95309-2W	A9055-8LS x A89163-3LS
AOTX95309-3W	A9055-8LS x A89163-3LS
AOTX96075-1Ru	A84118-3 x A89384-10
AOTX96084-1Ru	A8792-1 x A86102-6
AOTX96208-1Ru	A9057-7 x A91194-3
AOTX96216-1Ru	A9082-2 x A86102-6
AOTX96216-2Ru	A89216-9 x A86102-6
AOTX96216-3Ru	A89216-9 x A86102-6
AOTX96580-1W	A8836-5 x COO83008-1
AOTX98096-1Ru	Shepody x A92158-3
AOTX98137-1Ru	A8670-7 x A9310-1

Variety or Selection	Parentage
AOTX98183-2Ru	A90621-11LS x A9230-5
ATTX01175-1R	MN17922 x Mazama
ATTX01180-1R	ND5084-3R x A92657-1R
ATTX01180-4R	ND5084-3R x A92657-1R
ATTX8823-2W	ND2051-1Ru x A7961-1
ATTX88654-2Pu/Y	PI343201 x Gurney's Purple
ATTX88654-3W/RE/Y	PI343201 x Gurney's Purple
ATTX961014-1R/Y-	A90601-2RDY x MAZAMA
ATTX98444-16R/Y	A83360-9R x T48YF
ATTX98444-3R/Y	A83360-9R x T48YF
ATTX98452-9R	A93456-6R x A92657-1R
ATTX98453-6R	A93490-1R x A91846-5R
ATTX98462-3R/Y-	ATD251-5RY x BO811-13RY
ATTX98462-9R/Y	ATD251-5RY x BO811-13RY
ATTX98465-1R/Y	ATD252-5R x A89655-5DY
ATTX98466-5R/W-R	ND2051-1Ru x A7961-1
ATTX98468-3R/Y	ATD252-5R x A93457-4R
ATTX98468-5R/Y	ATD252-5R x A93457-4R
ATTX98471-4R/Y	ATD252-5R x BO811-13RY
ATTX98491-4YRsplash/Y	P94A2-3Y x A92657-1R
ATTX98493-2P/P	P94A2-3Y x BO811-13RY
ATTX98497-1R-Y/R	P94A2-4Y x A92657-1R
ATTX98497-1R-Y/Y	P94A2-4Y x A91848-1R
ATTX98500-3W-P/Y	P94A2-4Y x Granola
ATTX98509-3R/Y	T48YF x A92657-1R
ATTX98510-1R/Y	T48YF x A93456-6R
ATTX98510-3R/Y	T48YF x A93456-6R
ATTX98514-1R/Y	T51YF x A93456-6R
ATTX98514-3R/Y	T51YF x A93456-6R
ATTX98516-1W/Y	T51YF x BO811-13RY
ATTX98518-11Pu/Y	T48YF x A93456-6R
ATTX98518-4Pu/Y	Agria x A83350-9R
ATTX99321-1R/Y	A89655-5DY x A92653-6R
ATTX99325-1P	AGRIA x W1100R
ATX00144-2R	CenturyRussetxA91048-3
ATX01188-1R	Amadeus x Winema
ATX84378-6Ru	A79141-9 x ND329-1
ATX84706-2Ru	A738-1 x COA7906-5
ATX85404-8W	Gemchip x ND860-2
ATX88481-1Pu	A83302-1 x Bison
ATX91137-1Ru	A81473-2 x A83343-12
ATX9202-1Ru	A8343-12 x A8495-1

Variety or Selection	Parentage
ATX92230-1Ru	A8603-13 x A8495-1
ATX9332-8Ru	A8850-1 x A88288-1
ATX97195-1Ru	A89149-7 x A88236-6
ATX99049-1Ru	A84118-3 x B9922-11
ATX99092-1Ru	A9305-10 x A9014-2
ATX99331-1Pu/Y	INCAGOLDXCOA94019-5R
B0766-3T	B0243-18 x Costal Chip
BTX1544-2W/Y	BO811-13 x Yukon Gold
BTX1749-1W/Y	K7-6 x BO925-4
BTX2332-1R	B1523-4 x Super Red
CO94035-15RU	AO80432-1 x AC83064-6
CO94157-2W/Y	Russet Legend x German Butterball
CO94165-3P/P	ND2008-2 x All Blue
CO94183-1R/R	AllRedxND2109-7
CO95051-7W	AC88456-6 x BC0894-2
CO95086-8RU	CO87009-4 x Silverton Russet
CO95172-3RU	RussetNuggetxAC88165-3
CO96141-4W	BC0894-2 x AC87340-2
CO97043-14W	AC91817-5 x AC87340-2
CO97065-7W	AC92513-3 x Chipeta
CO97078-5R	CO86142-3 x Redsen
CO97137-1W	NDO2904-7 x AC89047-1
CO97226-2R/R-	CO94183-1 x CO94214-1
CO97232-1R/Y	CO94218-1 x VC0967-2
CO97232-2R/Y	CO94218-1 x VC0967-2
CO97233-3R/Y	CO94218-1 x VC0967-5
COA96141-2C	BCO894-2 x AC73340-2
COA96142-3C	BCO894-2 x Ivory Crisp
COTX00104-6R	ND3574-5R x C086218-2
COTX00197-1W	A91790-13W x NDTX4930-5W
COTX00206-1W	AC87340-2W x NDTX4930-5W
COTX00212-1Ru	AC90636-3RU x AC92009-4RU
COTX00254-2W	AO95496-4 x NDTX4930-5W
COTX00290-3R	CO94019-1R x CO89097-2R
COTX00328-1Pu/Ypu	ATD252-5R x BO811-13RY
COTX00411-4R	GermanButterballXNDC5281-2R
COTX01294-1W	A89655-5DY x A92653-6R
COTX01397-7R/Y	VC1015-1R/Y x Winema
COTX01403-4R/Y	VC1015-7R/Y x Winema
COTX01440-1Ru	Wallowa Russet x Silverton Russet
COTX94016-2W	A84095-1 x CO86030-1
COTX94218-1R	Red Ruby x Red Gold

Variety or Selection**Parentage**

COTX99045-2Ru/Y	Parentage A84095-1xCO86030-1
COTX99238-2W	ND2676-10 x AC87340-2
COTX99314-1W	CHIPETA x ND2676-10
MWTX2609-4Ru	Russet Burbank x (Ontario x 4x hybrid)
MWTX2609-4Ru	Russet Burbank x (Ontario x 4x hybrid)
MWTX4241-1W	Snowden x (US-W6703-1 x US-W8829-1)
ND2470-27	Yankee Chipper x Norchip
ND7834-2P	NorDonna x ND5554-1R made
ND8083b-1pY	Dakota Jewel x Jacqueline Lee
NDA5507-3YF	Brodict x Yukon Gold
NDTX028728-3W	MSE149-5Y x 7188-4R
NDTX4271-5R	NDTX9-1068-1R x ND2050-1R
NDTX4304-1R	ND1562-4R x NDTX9-1098-11R
NDTX4756-1R/Y	3451-14R x 1618-13R
NDTX4828-2R	ND3877-2R x NorDonna
NDTX4847-7R	ND3900IR-3R x Fontenot
NDTX4930-5W	ND860-2 x A7961-1
NDTX6754C-1W	ND5099IB-2B x ND5433-2
NDTX6773-1W	ND5175-4 x S440
NDTX731-1R	ND169-10R x ND9476-5
NDTX7571-1WRE/Y	ND5084-3R x Picasso
NDTX7571-3AW	ND5084-3R x Picasso
NDTX7571-4AW	ND5084-3R x Picasso
NDTX7571-5W/Y	ND5084-3R x Picasso
NDTX8555-2R/P	Parentage 7188-4Rx5256-7R
NY126	Keuka Gold x Pike
PA97B3-2	A8469-5 x A77715-6
PA99P20-2	N40-1 x PA96RR1-220
PATX99P10-1Pu/R	AllRedXPA96RR02-120
POR01PG20-12	PA97B35-2 x PA97B29-3
PORTX03PG22-1R/PY	PA97B35-1 x PA97B36-3
PORTX03PG25-2R/P	PA97B35-1 x PA99P7-2
PORTX03PG34-4R/P	PA99P20-2 x POROOPG2-16
PORTX03PG59-1PINTO/Y	POROOPG9-3 x PA97B35-1
PORTX03PG87-1R/Ry	True Blue x PA97B35-3
RZD94-2262	
RZD95-6643	
TX1523-1Ru/Y	Krantz x Delta Gold
TX1673-2W	Allagash Russet x TND 14-1Russ
TX1674-1W/Y	Russet Nugget x Delta Gold
TXA549-1Ru	ND9687-3Ru x ND9852-1Ru

Variety or Selection**Parentage**

TXDH-99-1Ru	
TXNS112	ND95264Ru x ND9687-5Ru
TXNS223	ND95264Ru x ND9687-5Ru
TXNS278	ND95264Ru x ND9687-5Ru
TXNS296	ND95264Ru x ND9687-5Ru
TXNS410	ND95264Ru x ND9687-5Ru
TXNS551	ND95264Ru x ND9687-5Ru
UNTX383-3WRE/Y	
VC0967-2R/Y	Agria x Redsen
VC1002-3W/Y	Agria x Wischip
VC1009-1W/Y	Agria x MIN12823
VC1015-7R/Y	Agria x Chieftain
VC1075-1R	ND1196-2R x Red Ruby
VC1123-2W/Y	AgriaxFV9307-3

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