

# Texas Potato Breeding Report 2020



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

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College Station and Lubbock

## 2020 Springlake Harvest

Due to travel restrictions by the University, we had to travel in separate vehicles, stay in separate rooms, and of course masks. COVID-19 added a significant cost to the Program for travel. Fortunately, we were able to plant and harvest our trials at both Springlake and Dalhart with the team staying healthy.

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Prefix Source Key for Numbered Advanced Selections:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

CO = cross made and selected in Colorado

COTX = cross made in Colorado and selected in Texas

DT = cross made in North Dakota and selected in Texas

FL = cross made and selected by Frito-Lay

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

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

MN = cross made and selected in Minnesota

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

ND = cross made and selected in North Dakota

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

NDC = cross made in North Dakota and selected in Colorado

NDO = cross made in North Dakota and selected in Oregon

NDTX = cross made in North Dakota and selected in Texas

NY = cross made and selected in New York

OR = cross made and selected in Oregon



PA = cross made and selected in Prosser, Washington

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

TX = cross made and selected in Texas

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

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

TXND = cross made in Texas and selected in North Dakota

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

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

Other Codes:

North Dakota

A = Aphid Resistance

B = Late Blight Resistance

C = Colorado Potato Beetle Resistance

R = Corky Ringspot Resistance

Y = PVY Resistance

Idaho

T = Selected in Tetonia

E = Early selection

Texas

BC = brown center

BOT = Best of Trial

D/K = drop/keep

FC = flesh color 1-5=dark

GH = green head

HH = hollow heart

IBS = internal brown spot

MB = mahogany browning

Mech = mechanical damage

Sugar = sugar ends

SE = Stem end discoloration

TM = tuber moth

CR = Chip quality rating

ZC = Zebra chip

## Color Code

Champ/Y = Champagne yellow flesh

f = Fingerling

LtP/Y = Light purple yellow

ORG/Y = Orange yellow flesh

P/Y = Purple yellow flesh

P/Y-P = Purple yellow flesh purple streaks

P/P = Purple purple flesh

Pwe/W = Purple white eye white flesh

Pyspl/Y = Purple yellow splash yellow flesh

R = Red white flesh

R/R = Red red flesh

R/W-R = Red White-red streaks flesh

R/Y = Red yellow flesh

Ru = Russet white flesh

Ru/Y = Russet yellow flesh

RuRE/Y = Russet red-eye yellow flesh

Rye/W = Red yellow eye white flesh

Rye/Y = Red yellow eye yellow flesh

RYPinto/Y = Red yellow pinto yellow flesh

Ryspl/Y = Red yellow splash yellow flesh

s = Small

W = White white flesh

W/Y = White yellow flesh

Wpe/W = White purple eye white flesh

Wre/Y = White red-eye yellow flesh

Y = Yellow white flesh

Y/Y = Yellow yellow flesh

Ype/Y = Yellow purple yellow flesh

Yrdspl/Y = Yellow red splash yellow flesh

Yre/Y = Yellow red-eye yellow flesh

## **Mission Statement**

The mission of the Texas A&M University Potato Breeding Program 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 A&M University Potato Breeding Program in 1973, 2,808,490 seedlings have been grown for selection in Texas, from which 14,062 original selections have been made. Eighteen potato varieties have been developed by the Program since its inception. Potato varieties developed by the Texas A&M Program benefit Texas growers, processors, and consumers and have an impact nationwide. Certified seed of TAMU released potato varieties were planted in 8,667 acres in the US in 2019, representing 8.5% of the national seed production. There are currently 65 licensees of TAMU Potato varieties. From those, 38 have licenses for the Russet Norkotah clonal selections in 12 states and Canada. There are 21 licensees for Reveille Russet in nine states and in Canada. The protection application for the variety Reveille Russet was accepted for filing by the Canadian Plant Breeders Rights Office in 2019 (application #19-9946). An agreement was finalized in 2019 for the production and distribution of Reveille Russet in the Eastern Canadian provinces and will be expanding that agreement in 2021 to all Canadian provinces. Vanguard Russet (PVP submitted in 2018) received a PVP certificate in 2020. The protection application for the variety Vanguard Russet was also accepted for filing by the Canadian Plant Breeders Rights Office in 2019 (application #19-9947). There are currently four licensees, with three others pending across four states. In 2020, a PVP application (PVP#202000185) was submitted for the potato variety COTX09022-3RuRE/Y, a specialty type (oblong/round, russet skin, yellow flesh, fresh market), released under the experimental ID, exclusively licensed in 2020, and a trademark is under consideration. A new fresh market russet variety was disclosed in 2020, Phoenix Russet (AOTX95265-4Ru), a Canadian company has signed a license agreement, and tissue culture plantlets were distributed.

Over the years, potato varieties released by the TAMU Program brought back US\$7.094 million to the University. The University received US\$792,567 in potato royalties in FY20; this is a 1 % over the previous year. The Texas A&M Potato Breeding Program received a portion of the funds (US \$86,419 -partial distribution, due to delays additional funds will be distributed in FY21-).

## **Introduction**

### Program Summary

The Texas A&M University Potato Breeding Program used two main locations in the 2020 growing season (Table 1). The first planting was near Springlake from March 21<sup>st</sup> to April 2<sup>nd</sup> and harvested from July 6<sup>th</sup> to July 15<sup>th</sup>. This location included three replicated trials, first-generation seedlings for selection, two heat stress trials, and a two-rep trial of the Texas A&M clone bank entries. The second planting was near Dalhart on May 10<sup>th</sup> to 12<sup>th</sup> and harvested on September 2<sup>nd</sup> and 3<sup>rd</sup>. This location included five replicated trials, the national chip processing trial, a seed increase nursery, first-year seedlings for selection, and a two rep trial of the Texas A&M clone bank entries.

The Texas program entered two selections (ATX06264s-4R/Y and PORTX03PG25-2R/R) in the Western Regional Red/ Specialty Trial, one selection in the Western Regional Russet Trial (TX13590-9Ru), and one selection (TX09403-15W) in the Western Regional Chip Trial. The program also entered one selection in the Southwest Regional Russet Trial (COTX08063-2Ru) and three selections in the Southwest Regional Chip Trial (AORTX09037-1W/Y, ATTX07042-3W, and TX09403-21W). These trials were conducted at multiple locations in six western states.

The Texas program had nine entries (ATX07042-3W, ATX13134-3W/Y, COTX13231-1W, COTX13231-4W, NDTX1444-5W, NDTX1482YB-1W, TX09403-15W, TX09403-21W, and TX12484-3WZC ) in the Potato USA Fast-Track National Chip Processing Trial. Thirteen entries (ATX10333-1W/Y, COTX13230-1W, COTX16054-1Ru, COTX16078-2W, COTX16078-4W, NDTX13315CB-1W, NDTX14247CAB-1W, NDTX14247CAB-2W, NDTX14252B-2W, NDTX14263BC-3W, TX17734-2W/Y, TX17759-5W, and TX17846-1W ) were entered in the Early Generation Southern Selection trial.

The program also continued to stress virus testing, clean-up, and minituber multiplication of several selected clones. Due to the Covid19 pandemic the traditional Field Day was canceled. A virtual Texas Potato Field Day was held July 15, 2020 on the Barrett Farm near Springlake. The 2020 Field Day handbook eEdition is available at [potato.tamu.edu](http://potato.tamu.edu).

### Single Hill Selections

In 2020, 55,186 first-year seedling tubers, resulting from 425 different parental combinations or families (crosses), were grown for selection. 27,152 seedling tubers were planted on the Barrett Farm near Springlake, while 28,034 seedling tubers were planted at CSS Farm near Dalhart. These included seedling tubers that were provided by Rich Novy, Idaho (10,329), David Holm, Colorado (9,873), and Susie Thompson, North Dakota (6,473). A total of 545 (1% selection rate) original selections were made from this material (Figure 1).

### True Potato Seedling Tuber Production

The 2020 first-year seedling tubers from Texas (68,642) were grown from true seed during the fall of 2019 and harvested in the winter of 2020 at College Station and Lubbock. These seeds were from crosses made in College Station. Texas also sent second and third-size seedling tubers to Idaho (4,980), Colorado (16,049), North Dakota (11,667), and Minnesota (3,979).

In the 2019-20 crossing block, we included 76 parents with a 38.5% success rate, which produced 142 families. Approximately 54,761 true seed were produced.

Table 1. Trial locations, name of trial, number of entries, and number of plots evaluated in 2020.					
<b>Springlake</b>					
Trial	# of Entries	# of Plots	Trial	# of Entries	# of Plots
Field day Russets (not reported)	40	40	National Chip	164	202
Field day Red/Specialty (not reported)	90	90	Advanced Chip Trials (Western, Southwestern Regional, and Texas)	57 (9, 11, 37)	165
Advanced Chip Trial (Texas)	27	27	Advanced Russet Trials (Western, Southwestern Regional, and Texas)	53 (17, 6, 30)	157
Advanced Russet Trials (Western, Southwestern Regional, and Texas)	38 (17, 6, 17)	111	Advanced Red/Specialty Trials (Western Regional and Texas)	78 (13, 65)	212
Advanced Red/Specialty Trials (Western Regional and Texas)	40 (13, 27)	117	2020 4Hill Chip Selection	322 (9 advanced)	322
Heat Stress - Early	12	42	2020 4Hill Russet Selection	123 (13 advanced)	123
Heat Stress - Late	12	42	2020 4Hill Red Selection	34 (7 advanced)	34
Clone Bank	209	418	2020 4Hill Red/Yellow Flesh Selection	40 (3 advanced)	40
<b>Total</b>	<b>338</b>	<b>758</b>	2020 4Hill White/Yellow Flesh Selection	17 (1 advanced)	17
			2020 4Hill Small Potato Selection	7 (2 advanced)	7
			2020 4Hill Fingerling Potato Selection	14 (1 advanced)	9
			2020 4Hill Purple Potato Selection	12 (2 advanced)	12
			Breeding Clone Bank	217	434
			<b>Total</b>	<b>1138</b>	<b>1734</b>
			<b>Total Entries and Plots</b>	<b>1472</b>	<b>2490</b>

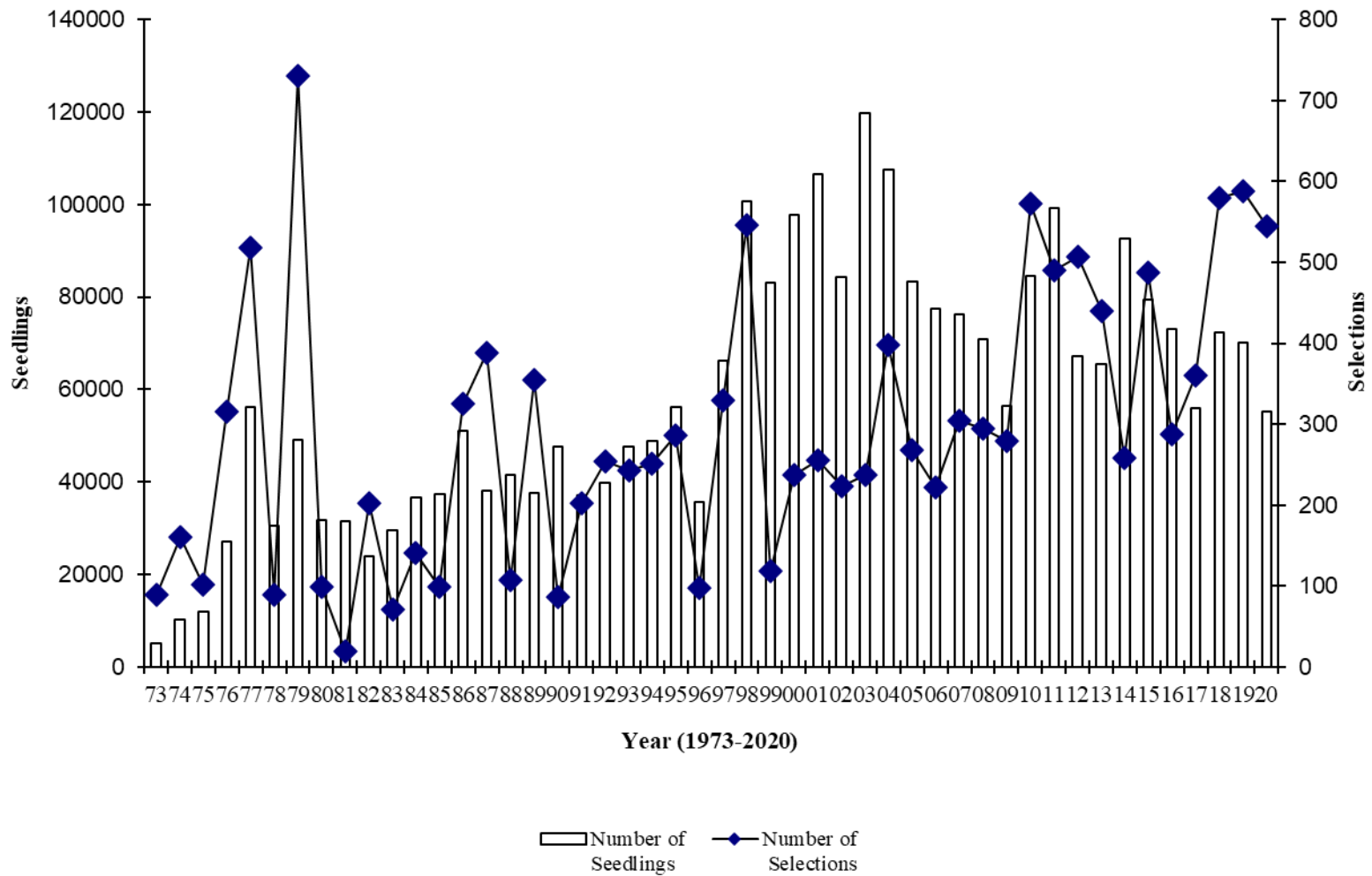


Figure. 1. Number of first year seedling tubers grown for original selection and number of selections made since the inception of the Texas Potato Variety Development Program.

## Second-Year Field Selections

Out of 564 second-year clones (4hill), 38 were selected (6%).

## Breeding trials

The breeding trials' objectives 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. 350 advanced selections/varieties were tested in replicated and non-replicated trials near Springlake, and 1,138 entries were evaluated near Dalhart. A total of 2,506 plots were planted and harvested at the two locations. A seed increase nursery was grown at the San Luis Valley Research Center, Center, Colorado, by Dr. David Holm.

Since 1973, a total of 38,110 entries have been evaluated in replicated trials (Figure 2). Findings from the Texas A&M Potato Breeding Program trials have resulted in the release of several improved varieties, which have contributed significantly to the competitiveness, sustainability, and profitability of the potato industry.

Table A for each trial provides basic information regarding the total yield and grade distribution of individual entries. Tables B, C, D, E, F, and G provide a more in-depth insight regarding variety characteristics. General notes on the entries can be found in Appendix A at the end of this report. Likewise, parentage can be found in Appendix B. The final disposition of all 2020 entries can be found in Appendix C.



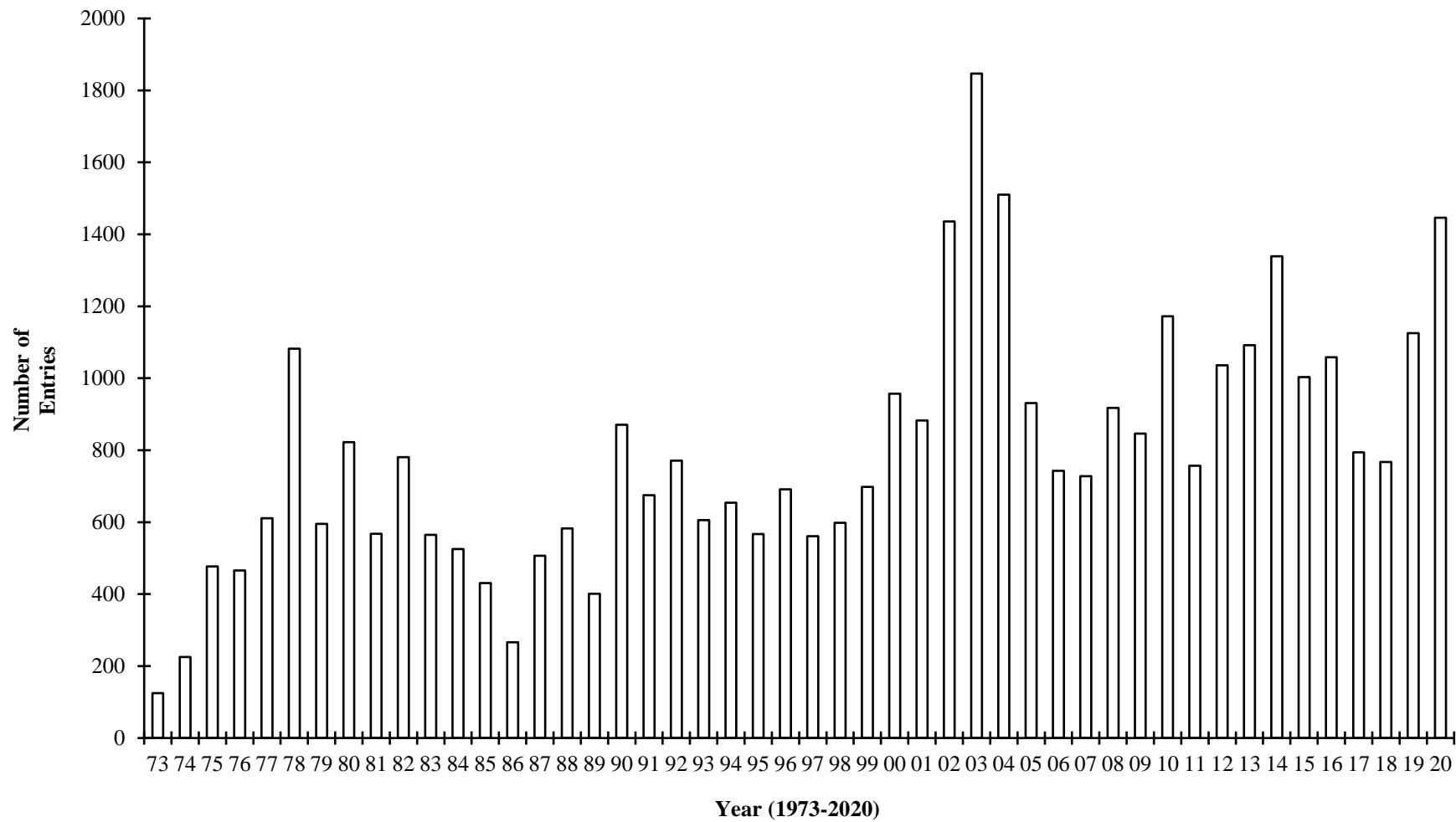


Figure 2. Number of varieties and advanced selections tested for their adaptability to Texas environmental conditions each year since the inception of the Texas Potato Variety Development Program in 1973.

## Springlake Trials, 2020

### Summary of growing conditions:

The trials were planted near Springlake (34° 6'43.43"N, 102°19'40.02"W) from March 26<sup>th</sup> to April 2<sup>nd</sup> and harvested from July 6<sup>th</sup> to July 15<sup>th</sup>. Standard cultural practices for the area were used (Table 2).

### Trials conducted:

- Field day Russets (reported in 2020 Field Day Report at [potato.tamu.edu](http://potato.tamu.edu))
- Field day Red/Specialty (reported in 2020 Field Day Report at [potato.tamu.edu](http://potato.tamu.edu))
- Western, Southwest Regional, and Advanced Texas Selections Russet
- Western Regional and Advanced Texas Selections Red/Specialty
- Advanced Texas Selections Chips

Table 2. Environmental and cultural inputs for the 2020 Springlake Trials.

Location:

Springlake, Texas

Soil Type

Tivoli Fine Sand

Seed Source

Oregon, Colorado, Nebraska, Texas, and Idaho

Date:

		DAP
Planted	March 26, 2020	
Vines Killed (Red/Specialty)	June 30, 2020	96
Vines Killed (Russet)	July 6, 2020	102
Harvested (Red/Specialty)	July 6, 2020	102
Harvested (Russet)	July 15, 2020	111

Plot Information:

Size of plots	21'
Spacing between hills	9"
Spacing between rows	36"
Hills per plot	28
Number of rows	2
Number of reps	3

Method of Harvest:

Two-row drag digger with hand pick up

Fertilizer:

Application:  
89-29-29# per acre

Irrigation:

Center Pivot

Seed Treatment Applied:

Cruiser Maxx Vibrance

Insecticide:

Movento, Minecto Pro, Sivanto, Rimon 0.83EC,  
Velum Prime, SPE 120

Fungicides Applied:

Scala, NUCOP, Miravis Prime Headline

Herbicides Applied:

Boundary 6.5 EC, Gly Star 5 Extra, Makaze,  
Medal EC Stealth

Environmental Factors:

These trials received 28.02 inches of irrigation and  
3.1 inches of precipitation.

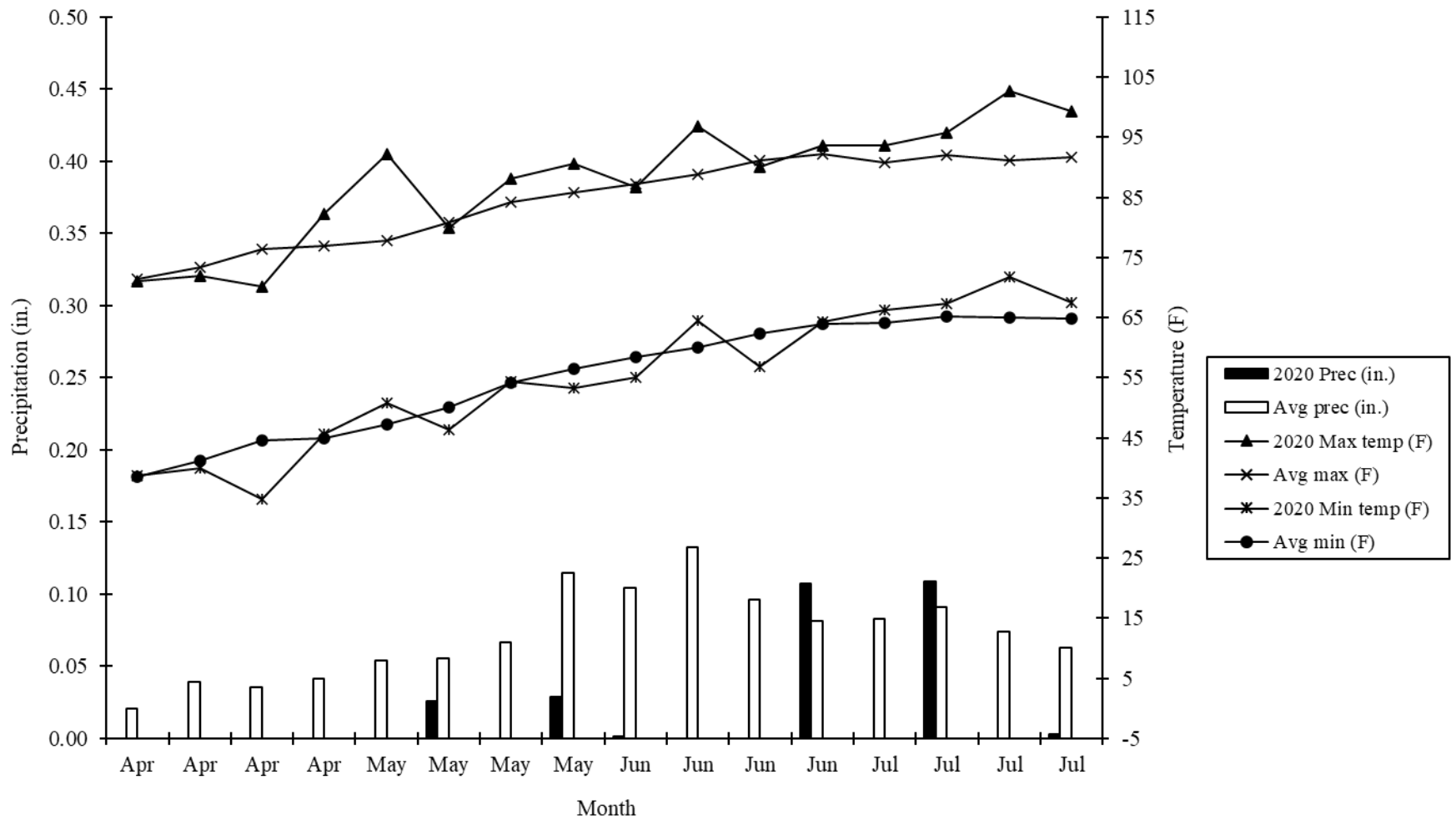


Figure 3. Weekly minimum/maximum temperatures and precipitation for the 2020 growing season near Springlake, Texas compared to the average minimum/maximum temperatures and precipitation (1949-2020).

## **Western, Southwestern Regional, and Advanced Texas Selection Trials**

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

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

The advanced Texas selections consisted of new and advanced clones.

## **Western, Southwest Regional, and Advanced Texas Selections Russet, Springlake**

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

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

- Vanguard Russet, ATTX10007-1Ru, CO10087-4RU, and Stampede Russet had high general ratings and a best of trial designation. COTX09022-3RuRE/Y, Russet Norkotah 296, Sierra Gold, CO11009-3RU, TX13590-9Ru, COTX08063-2Ru, Russet Norkotah 223, Russet Norkotah, and Reveille Russet also had high general ratings (Table 1a).
- TX13590-9Ru had the highest total and marketable yield. CO10091-1RU had the highest yield of less than 4 oz. tubers. ATTX10007-1Ru had the highest yield of 10-18 oz. tubers. Russet Burbank had the highest yield of culls/No. 2 tubers (Table 1a).
- ATTX10007-1Ru and Russet Norkotah 223 had the highest percentage of marketable yield. COTX05095-2Ru/Y had the highest percentage of less than 4 oz. tubers. ATTX10007-1Ru had the highest percentage of 10-18 oz. tubers. Russet Burbank had the highest percent of culls/No. 2 tubers (Table 1b).
- COTX08063-2Ru and CO12152-1RU had the highest specific gravity (Table 1b).
- CO10085-1RU had the highest average number of tubers per plant (Table 1c).
- COTX10080-2Ru, AOR10204-3, A071012-4BF, CO10085-1RU, and TXA549-1Ru were the latest in maturity, while ATX13018-2Ru, Russet Norkotah, CO10087-4RU, and COTX08322-10Ru were the earliest in maturity (Table 1c).
- Russet Burbank had severe knobs, while Shepody had the highest percent of vascular discoloration

Comments on entries:

- TX13590-9Ru Oblong Russet large, high tuber number+, nice+, parent+, TX13590-9Ru has darker skin and larger tubers than TXA549-1Ru, check if we have regional data, Release??, nice skin
- COTX09022-3RuRE/Y Round Russet/Red Eye high tuber number+++, uniform size+, nice, unique pattern, pink eyes
- AOR08540-1 Oblong Russet high tuber number+, long, nice shape, medium size, uniform size, uniform shape, pointed,
- Vanguard Russet Oval Russet blocky+, large, BOT+
- Russet Norkotah 296 Oblong Russet nice+++, bruises dark++, longer than other Russet Norkotah strains
- Sierra Gold Round Russet good size, chip, roundish+, round to oval, nice+, bruises dark
- CO11009-3RU Oblong Russet nice, high tuber number, skinny, long, good skin++, nice size, uniform shape, uniform size, nice shape+, thin, some pointed
- Shepody Oval White heat sprouts, light skin++, pointed, nice, many heat sprouts+
- TXA549-1Ru Oval Russet a little smaller than TX13590-9Ru, short
- Russet Norkotah Long Russet pointed, nice shape, good size
- COTX08063-2Ru Oblong Russet light skin, high tuber number, very nice
- Russet Burbank Long Russet heat sprouts++, bad shape+, knobs++, high tuber number++, all deformed++
- ATTX10007-1Ru Oblong Russet large blocky, light skin, enter in TC, parent, BOT+
- Reveille Russet Oblong Russet nice shape, high tuber number, feels soft+, not mature, shrinking, nice size
- Russet Norkotah 223 Oblong Russet very nice++, nice russeting, nice shape, nice size, bruises dark
- A071012-4BF Oval Russet pointed, angular+, good size, dark bruising++

- CO10085-1RU      Oval Russet      few tubers, heat sprouts+++ , many smalls, non-uniform size, chain tubers
- ATTX10378-3Ru/Y      Oblong Russet      some round, bad skin+, road map skin, intense yellow flesh, DROP
- CO12378-1RU      Oval Russet      heat sprouts, nice size and shape, zipper eyes, heavy skin+, short, nice skin+, small
- CO10087-4RU      Oblong Russet      heat sprouts, high tuber number, nice+, blocky+, very nice shape+, size+ and appearance, uniform size, and shape, pretty, parent, BOT
- AOR10204-3      Oblong Russet      heat sprouts+, pointed++, long+, light eyes+, many eyes, round opened eyes, pretty eyes,
- CO12152-1RU      Oblong Russet      heat sprouts, light skin, medium size, nice skin+, short tubers, medium to small tubers, uniform size and shape
- POR12NCK50-1      Oval Russet      heat sprouts, medium size
- COTX08322-10Ru      Oblong Russet      blocky, bruises dark, parent, it had high virus load in Colorado, heat sprouts
- Stampede Russet      Oval Russet      nice shape+ and size, nice, blocky, very nice skin++, medium shape, nice, parent+, parent for fresh market, BOT
- Ranger Russet      Oblong Russet      heat sprouts++, nice
- Russet Norkotah 278      Oblong Russet      good shape, nice, good size, shorter than Russet Norkotah 296
- COTX13029-2Ru/Y      Round Russet      good size, chip, heavy skin++, keep an eye on this one, intense yellow flesh, round, Yellow Rose class?, it does not need turmeric, tough, parent for yellow russets, produce minitubers
- OR12133-10      Oblong Russet      light skin++, small, pointed, not uniform skin
- Clearwater Russet      Oblong Russet      small++, high tuber number++, heat sprouts, nice skin, nice shape, uniform size, uniform shape
- ATX13018-2Ru      Oblong Russet      not uniform size+, road map skin, bad skin+, dislike skin, DROP
- A07769-4      Oval Russet      heat sprouts, light skin, medium

- COTX15271-1Ru Oblong Russet knobs, heat sprouts, medium size
- A10021-5TE Oblong Russet heat sprouts++, pointed+, light skin, knobs
- Dal17001RuRua Oblong Russet small, medium size, good skin, non-uniform size, DROP
- AOTX05043-1Ru Oblong Russet short, nice shape, nice skin, few tubers
- COTX10080-2Ru Oblong Russet few tubers, pointed+, not uniform, heavy skin+, DROP
- CO10091-1RU Oval Russet few tubers+, not uniform size++, small++, intense russet

### Summary

Vanguard Russet, ATTX10007-1Ru, CO10087-4RU, and Stampede Russet were the best entries overall.

Disposition: [See Appendix C.](#)



Springlake  
Table 1a.

Total yield, total yield of U.S. No.1, over 18 oz, under 4 oz and culls/No.2 potatoes and general rating of 38 entries in the Western and Southwest Regional Russet and Advanced Texas selections Trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Total Yield cwt/a	U.S. No. 1 cwt/a			Over 18 oz cwt/a	Under 4 oz. cwt/a	Culls/ No.2 cwt/a	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
TX13590-9Ru	TXRU20	331.8	225.9	56.4	95.8	73.8	0.0	102.6	3.3	3.9	4.2
COTX09022-3Rure/Y	TXRU20	263.1	141.5	77.6	61.7	2.3	0.0	117.9	3.7	4.2	4.4
AOR08540-1	WR20	260.7	131.5	62.9	59.3	9.2	0.0	111.0	18.2	4.1	3.9
Vanguard Russet	ADVRU20	259.4	182.9	55.3	80.2	47.4	0.0	67.8	8.8	4.5	4.3
Russet Norkotah 296	TXRU20	249.4	174.0	50.9	64.8	58.3	0.0	62.5	12.9	4.2	4.3
Sierra Gold	TXRU20	239.9	179.4	58.9	97.8	22.7	0.0	60.0	0.5	4.2	4.3
CO11009-3RU	WR20	232.3	131.9	46.7	80.0	5.3	0.0	95.5	4.8	4.0	4.2
Shepody	WR20	231.6	111.1	31.5	61.8	17.9	0.0	72.8	47.7	2.5	3.8
TXA549-1Ru	TXRU20	230.0	103.8	55.9	44.9	3.0	0.0	113.6	12.6	3.9	3.7
Russet Norkotah	WR20	221.9	129.0	66.1	45.1	17.7	0.0	81.8	11.2	4.1	4.1
COTX08063-2Ru	SW20	221.9	101.6	58.4	43.2	0.0	0.0	115.1	5.2	3.7	4.2
Russet Burbank	WR20	216.6	64.9	41.8	23.0	0.0	0.0	66.1	85.6	3.3	3.3
ATX10007-1Ru	TXRU20	216.1	175.6	36.0	37.3	102.3	0.0	37.3	3.1	5.0	4.5
Reveille Russet	ADVRU20	210.1	122.3	60.3	48.6	13.4	0.0	82.7	5.1	4.3	4.0
Russet Norkotah 223	TXRU20	207.8	169.3	50.6	74.2	44.5	0.0	36.1	2.4	3.9	4.1
A071012-4BF	WR20	206.6	128.7	38.7	47.7	42.3	0.0	61.3	16.6	3.8	3.6
CO10085-1RU	WR20	204.7	47.5	37.7	9.8	0.0	0.0	135.3	21.9	3.5	3.2
ATX10378-3Ru/Y	TXRU20	204.0	67.8	55.7	12.1	0.0	0.0	133.0	3.2	3.5	3.6
CO12378-1RU	SW20	201.9	63.5	43.3	20.2	0.0	0.0	137.0	1.4	3.7	3.6
CO10087-4RU	WR20	201.0	128.0	32.7	72.5	22.8	0.0	69.9	3.0	4.1	4.1
AOR10204-3	WR20	199.6	106.6	31.5	53.1	22.0	0.0	73.9	19.1	3.8	3.8
CO12152-1RU	SW20	194.1	62.8	33.5	29.3	0.0	0.0	123.5	7.7	3.7	3.9
POR12NCK50-1	WR20	191.8	64.9	37.9	22.1	4.8	0.0	120.9	6.0	3.7	3.7
COTX08322-10Ru	TXRU20	189.8	123.2	43.4	53.6	26.2	0.0	57.8	8.8	3.8	3.8
Stampede Russet	TXRU20	189.6	103.0	34.9	54.6	13.5	0.0	85.5	1.0	4.0	4.1
Ranger Russet	WR20	185.9	72.9	45.7	27.2	0.0	0.0	92.3	20.6	3.6	3.6
Russet Norkotah 278	TXRU20	179.7	127.5	39.3	60.7	27.4	0.0	38.4	13.8	3.9	3.9
COTX13029-2Ru/Y	TXRU20	177.8	97.6	48.5	49.1	0.0	0.0	77.6	2.7	3.7	3.9
OR12133-10	WR20	168.5	73.8	43.4	30.3	0.0	0.0	88.3	6.5	3.6	3.6
Clearwater Russet	WR20	161.6	24.2	24.2	0.0	0.0	0.0	129.4	8.0	3.7	3.6
ATX13018-2Ru	TXRU20	158.3	77.2	44.1	33.1	0.0	0.0	77.1	4.0	3.7	3.6
A07769-4	WR20	149.0	76.3	40.4	35.8	0.0	0.0	71.3	1.4	3.6	3.6
COTX15271-1Ru	TXRU20	148.3	64.2	39.1	25.1	0.0	0.0	70.1	14.1	3.7	3.7
A10021-5TE	WR20	140.6	73.2	35.0	29.0	9.1	0.0	46.2	21.2	3.5	3.5
Dal17001RuRua	TXRU20	138.5	24.5	20.7	3.8	0.0	0.0	108.0	6.0	3.6	3.4
AOTX05043-1Ru	TXRU20	114.7	45.7	28.3	17.4	0.0	0.0	68.9	0.0	3.8	3.6
COTX10080-2Ru	TXRU20	113.5	50.9	26.7	24.2	0.0	0.0	60.5	2.1	3.6	3.3
CO10091-1RU	WR20	85.9	13.6	10.9	2.7	0.0	0.0	69.4	2.9	3.6	3.0
Average		200.3	104.0	44.2	44.0	15.8	0.0	85.1	11.2	3.8	3.8
L.S.D. (.05)		64.6	41.5	ns	27.1	20.0	0.0	33.8	15.7		0.2

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

Springlake  
Table 1b.

Percent by weight of U.S. No. 1, over 18 oz, under 4 oz, culls/No.2 potatoes, specific gravity, tuber type and skin type of 38 entries in the Western and Southwest Regional Russet and Advanced Texas selections Trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
TX13590-9Ru	TXRU20	68.6	17.3	28.9	22.4	0.0	30.5	0.9	1.069	14.7	Oblong	Russet
COTX09022-3Rure/Y	TXRU20	52.4	28.6	23.1	0.7	0.0	46.0	1.6	1.072	15.4	Round	russet/Red Eye
AOR08540-1	WR20	51.8	24.2	23.3	4.3	0.0	41.0	7.2	1.071	15.2	Oblong	Russet
Vanguard Russet	ADVRU20	69.1	22.8	29.6	16.7	0.0	27.7	3.2	1.062	13.7	Oval	Russet
Russet Norkotah 296	TXRU20	69.7	20.4	25.3	24.0	0.0	25.2	5.1	1.068	14.7	Oblong	Russet
Sierra Gold	TXRU20	74.9	24.9	41.4	8.5	0.0	24.9	0.2	1.074	15.8	Round	Russet
CO11009-3RU	WR20	55.6	21.0	32.6	1.9	0.0	42.3	2.1	1.077	16.2	Oblong	Russet
Shepody	WR20	48.1	14.2	25.9	8.0	0.0	33.7	18.2	1.068	14.7	Oval	White
TXA549-1Ru	TXRU20	48.5	25.4	22.1	1.0	0.0	46.1	5.4	1.065	14.1	Oval	Russet
Russet Norkotah	WR20	55.5	29.9	18.7	7.0	0.0	38.8	5.7	1.069	14.8	Long	Russet
COTX08063-2Ru	SW20	45.8	26.3	19.5	0.0	0.0	51.9	2.3	1.088	18.2	Oblong	Russet
Russet Burbank	WR20	26.9	19.2	7.7	0.0	0.0	30.8	42.3	1.068	14.7	Long	Russet
ATTX10007-1Ru	TXRU20	81.3	16.6	17.3	47.4	0.0	17.3	1.4	1.072	15.4	Oblong	Russet
Reveille Russet	ADVRU20	58.4	28.8	23.1	6.4	0.0	39.2	2.4	1.065	14.0	Oblong	Russet
Russet Norkotah 223	TXRU20	81.4	24.4	35.5	21.6	0.0	17.5	1.1	1.066	14.4	Oblong	Russet
A071012-4BF	WR20	62.3	20.7	22.4	19.1	0.0	29.9	7.9	1.077	16.2	Oval	Russet
CO10085-1RU	WR20	21.9	17.2	4.7	0.0	0.0	67.2	10.8	1.068	14.6	Oval	Russet
ATTX10378-3Ru/Y	TXRU20	33.8	28.2	5.6	0.0	0.0	64.9	1.3	1.073	15.6	Oblong	Russet
CO12378-1RU	SW20	31.4	21.3	10.1	0.0	0.0	68.0	0.6	1.069	14.9	Oval	Russet
CO10087-4RU	WR20	64.3	16.5	36.6	11.2	0.0	34.2	1.5	1.076	16.0	Oblong	Russet
AOR10204-3	WR20	52.5	15.6	28.0	9.0	0.0	37.6	9.9	1.061	13.3	Oblong	Russet
CO12152-1RU	SW20	31.8	17.0	14.8	0.0	0.0	64.0	4.1	1.085	17.8	Oblong	Russet
POR12NCK50-1	WR20	33.9	19.8	11.7	2.4	0.0	63.0	3.0	1.067	14.5	Oval	Russet
COTX08322-10Ru	TXRU20	64.9	23.0	28.3	13.6	0.0	30.5	4.6	1.066	14.2	Oblong	Russet
Stampede Russet	TXRU20	54.6	19.3	27.8	7.5	0.0	44.9	0.5	1.056	12.4	Oval	Russet
Ranger Russet	WR20	35.6	24.2	11.4	0.0	0.0	53.8	10.6	1.066	14.3	Oblong	Russet
Russet Norkotah 278	TXRU20	72.6	24.0	32.5	16.2	0.0	19.8	7.6	1.067	14.4	Oblong	Russet
COTX13029-2Ru/Y	TXRU20	55.3	27.0	28.3	0.0	0.0	43.3	1.4	1.077	16.3	Round	Russet
OR12133-10	WR20	42.7	25.2	17.5	0.0	0.0	53.3	3.9	1.062	13.5	Oblong	Russet
Clearwater Russet	WR20	16.7	16.7	0.0	0.0	0.0	78.1	5.2	1.068	14.7	Oblong	Russet
ATX13018-2Ru	TXRU20	49.2	29.1	20.1	0.0	0.0	48.3	2.4	1.064	13.9	Oblong	Russet
A07769-4	WR20	48.0	26.3	21.7	0.0	0.0	51.0	0.9	1.067	14.4	Oval	Russet
COTX15271-1Ru	TXRU20	44.8	26.4	18.5	0.0	0.0	45.9	9.3	1.068	14.6	Oblong	Russet
A10021-5TE	WR20	52.1	25.1	20.6	6.4	0.0	33.0	14.8	1.067	14.4	Oblong	Russet
Dal17001RuRua	TXRU20	14.5	12.5	2.0	0.0	0.0	80.9	4.7	1.072	15.3	Oblong	Russet
AOTX05043-1Ru	TXRU20	42.4	26.2	16.3	0.0	0.0	57.6	0.0	1.068	14.6	Oblong	Russet
COTX10080-2Ru	TXRU20	39.7	22.6	17.1	0.0	0.0	58.9	1.4	1.051	11.7	Oblong	Russet
CO10091-1RU	WR20	13.8	11.5	2.3	0.0	0.0	82.7	3.5	1.060	13.3	Oval	Russet
Average		50.1	22.4	20.8	6.9	0.0	44.3	5.6	1.069	14.8		
L.S.D. (.05)		13.2	ns	10.9	8.3	0.0	13.0	4.6	0.005	0.9		

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Table 1c.

Average number of tubers and stems per plant, tuber weight, percent stand 40 and 60 days after planting, plant characteristics, percent dead vine at vine kill, length/with, and with/thickness, length cm, with cm, and thickness cm of 38 entries in the Western and Southwest Regional Russet and Advanced Texas selections Trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Average Number Tubers/ Plant	Average Number Stems/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines	Length/ With	With/ Thickness	Length cm	With cm	Thickness cm
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>						
TX13590-9Ru	TXRU20	7.1	1.5	4.1	98	98	1.8	3.9	4.5	3.2	8	1.51	1.08	8.2	5.4	5.0
COTX09022-3Rure/Y	TXRU20	6.8	1.4	3.2	98	100	1.8	3.9	3.3	3.9	32	1.12	1.20	7.1	6.3	5.3
AOR08540-1	WR20	6.6	1.3	3.4	92	96	1.8	3.5	4.5	3.6	10	1.93	1.08	10.1	5.2	4.9
Vanguard Russet	ADVRU20	4.7	1.3	4.6	100	100	1.5	3.6	3.7	3.6	25	1.57	1.06	9.0	5.8	5.4
Russet Norkotah 296	TXRU20	5.0	1.5	4.3	94	95	1.5	3.6	3.8	3.6	28	1.73	1.10	9.3	5.4	4.9
Sierra Gold	TXRU20	4.7	1.5	4.3	100	100	1.5	3.8	3.6	3.8	23	1.10	1.23	7.0	6.4	5.2
CO11009-3RU	WR20	4.7	1.4	4.3	94	96	1.7	3.8	4.0	3.8	13	1.86	1.07	9.9	5.3	5.0
Shepody	WR20	5.2	1.2	3.7	100	100	1.5	3.6	4.0	3.6	13	1.46	1.27	9.0	6.2	5.0
TXA549-1Ru	TXRU20	6.0	1.5	3.2	98	100	1.5	3.8	4.6	3.7	10	1.42	1.22	8.6	6.1	5.0
Russet Norkotah	WR20	4.8	1.2	3.8	100	100	1.5	3.4	3.0	3.5	37	1.81	1.16	9.8	5.4	4.7
COTX08063-2Ru	SW20	5.5	1.4	3.3	100	100	1.5	3.7	3.8	3.8	20	1.52	1.20	7.3	4.8	4.0
Russet Burbank	WR20	5.9	1.4	2.8	100	100	1.7	3.8	4.3	3.7	13	1.99	1.17	10.2	5.2	4.5
ATTX10007-1Ru	TXRU20	3.2	1.4	5.6	100	100	1.5	3.5	3.3	3.6	20	1.53	1.23	9.0	5.9	4.8
Reveille Russet	ADVRU20	4.2	1.1	4.2	100	100	1.5	3.2	4.2	3.1	13	1.70	1.19	9.2	5.4	4.6
Russet Norkotah 223	TXRU20	3.4	1.2	5.1	100	100	1.5	3.2	3.4	3.3	22	1.71	1.12	9.1	5.3	4.8
A071012-4BF	WR20	3.4	1.7	4.9	100	100	1.5	3.7	4.6	3.8	5	1.50	1.23	9.2	6.2	5.0
CO10085-1RU	WR20	9.9	1.3	1.7	100	100	1.7	3.8	4.7	3.8	7	1.47	1.24	9.0	6.1	4.9
ATTX10378-3Ru/Y	TXRU20	7.1	1.4	2.4	100	100	1.7	3.7	3.2	3.7	33	1.51	1.16	8.4	5.6	4.9
CO12378-1RU	SW20	7.1	1.4	2.4	98	100	1.5	3.7	3.4	3.7	28	1.35	1.28	8.0	5.9	4.6
CO10087-4RU	WR20	4.1	1.3	4.4	94	94	1.8	3.7	3.1	3.9	32	1.62	1.17	9.3	5.8	5.0
AOR10204-3	WR20	6.9	1.1	3.9	52	64	1.7	3.1	4.7	3.8	8	1.89	1.19	10.9	5.8	4.9
CO12152-1RU	SW20	6.0	1.2	2.9	89	92	1.5	3.4	3.3	3.1	30	1.64	1.25	9.4	5.7	4.6
POR12NCK50-1	WR20	6.0	1.3	2.8	95	98	1.7	3.6	4.1	3.5	15	1.48	1.21	8.9	6.0	5.0
COTX08322-10Ru	TXRU20	4.1	1.0	4.0	95	96	1.5	3.5	3.1	3.5	35	1.40	1.30	8.8	6.2	4.8
Stampede Russet	TXRU20	4.9	1.4	3.3	95	98	1.5	3.5	3.4	3.3	30	1.57	1.13	9.4	6.0	5.3
Ranger Russet	WR20	5.0	1.4	3.0	100	100	1.7	3.7	4.5	3.7	8	1.80	1.14	9.8	5.4	4.8
Russet Norkotah 278	TXRU20	3.2	1.4	4.8	96	96	1.5	3.5	3.4	3.4	27	1.66	1.21	9.5	5.7	4.7
COTX13029-2Ru/Y	TXRU20	5.1	1.5	3.1	89	93	1.5	3.3	3.6	3.6	22	1.05	1.12	6.5	6.2	5.6
OR12133-10	WR20	4.8	1.6	2.9	100	100	1.5	3.9	4.5	4.0	12	1.72	1.16	9.1	5.3	4.6
Clearwater Russet	WR20	6.3	1.5	2.1	100	100	1.5	3.6	4.4	3.5	8	1.63	1.21	8.5	5.2	4.3
ATX13018-2Ru	TXRU20	4.4	1.1	3.0	95	100	1.5	3.2	2.9	3.1	39	1.44	1.19	8.4	5.8	4.9
A07769-4	WR20	4.4	1.2	3.1	89	90	1.5	3.3	4.3	3.2	12	1.37	1.15	8.1	5.9	5.2
COTX15271-1Ru	TXRU20	4.0	1.2	3.1	98	100	1.5	3.7	3.8	3.7	17	1.60	1.14	9.1	5.7	5.0
A10021-5TE	WR20	3.4	1.4	3.4	100	100	1.7	3.6	3.9	3.6	12	1.65	1.29	9.0	5.5	4.3
Dal17001RuRua	TXRU20	5.1	1.4	2.3	95	95	1.5	3.3	3.2	3.4	27	1.61	1.12	9.1	5.6	5.0
AOTX05043-1Ru	TXRU20	3.5	0.9	3.1	70	86	1.5	2.5	3.7	2.5	22	1.56	1.16	8.8	5.6	4.8
COTX10080-2Ru	TXRU20	4.2	1.1	2.4	87	90	1.5	2.4	5.0	2.5	0	1.60	1.08	9.3	5.8	5.4
CO10091-1RU	WR20	4.9	1.5	1.5	98	94	1.5	3.2	3.8	2.9	16	1.37	1.15	7.6	5.5	4.8
Average		5.2	1.3	3.5	95	97	1.6	3.5	3.9	3.5	19	1.57	1.18	8.9	5.7	4.9
L.S.D. (.05)		1.7	0.2	0.6	10	9	ns	0.4	0.4	0.4	8	0.18	ns	1.0	0.5	0.6

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

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

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

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

Springlake  
Table 1d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 38 entries in the Western and Southwest Regional Russet and Advanced Texas selections Trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Greening <sup>11</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>11</sup>	Percent Internal Brownspot
TX13590-9Ru	TXRU20	1.0	4.0	4.0	4.0	3.9	5.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
COTX09022-3Rure/Y	TXRU20	3.0	2.5	3.5	4.0	3.8	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	0
AOR08540-1	WR20	1.0	4.2	4.2	4.0	4.0	5.0	5.0	5.0	4.3	5.0	5.0	0	0	0	0
Vanguard Russet	ADVRU20	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Russet Norkotah 296	TXRU20	1.0	4.4	4.5	4.0	4.5	5.0	5.0	5.0	4.6	4.7	5.0	0	0	3	0
Sierra Gold	TXRU20	2.6	2.0	2.0	4.5	2.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO11009-3RU	WR20	1.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
Shepody	WR20	1.0	4.0	1.0	4.5	1.0	5.0	5.0	5.0	4.0	5.0	4.9	0	0	33	0
TXA549-1Ru	TXRU20	1.0	3.4	3.7	3.9	3.8	5.0	5.0	5.0	4.7	5.0	5.0	0	0	0	0
Russet Norkotah	WR20	1.0	4.5	4.4	4.0	4.1	5.0	5.0	5.0	4.4	5.0	5.0	0	0	0	0
COTX08063-2Ru	SW20	1.0	3.8	2.8	4.0	2.8	5.0	5.0	5.0	5.0	5.0	5.0	0	0	10	0
Russet Burbank	WR20	1.0	4.0	3.8	4.0	3.8	5.0	5.0	5.0	2.5	5.0	5.0	0	0	7	0
ATTX10007-1Ru	TXRU20	1.0	4.6	2.0	4.5	1.6	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Reveille Russet	ADVRU20	1.0	4.2	4.1	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Russet Norkotah 223	TXRU20	1.0	4.5	4.5	4.5	4.5	5.0	5.0	5.0	5.0	4.0	5.0	0	0	13	0
A071012-4BF	WR20	1.0	4.0	3.2	4.0	3.5	5.0	5.0	5.0	4.6	4.0	5.0	0	0	7	0
CO10085-1RU	WR20	1.0	2.8	4.0	4.0	4.0	5.0	5.0	5.0	4.7	5.0	5.0	0	0	0	0
ATTX10378-3Ru/Y	TXRU20	3.0	3.5	3.5	4.0	3.5	5.0	5.0	5.0	4.8	5.0	5.0	0	0	0	0
CO12378-1RU	SW20	1.0	3.0	4.5	4.5	4.5	5.0	5.0	5.0	4.9	5.0	5.0	0	0	10	0
CO10087-4RU	WR20	1.0	4.1	4.0	4.2	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AOR10204-3	WR20	1.0	4.6	4.5	3.8	4.5	5.0	5.0	5.0	4.7	5.0	5.0	0	0	7	0
CO12152-1RU	SW20	1.0	3.6	4.1	4.0	4.1	5.0	5.0	5.0	4.8	5.0	5.0	0	0	7	0
POR12NCK50-1	WR20	1.0	3.6	4.0	4.0	4.0	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	0
COTX08322-10Ru	TXRU20	1.0	3.8	4.0	4.0	4.0	5.0	5.0	5.0	4.8	5.0	5.0	0	0	13	0
Stampede Russet	TXRU20	1.0	3.9	4.0	4.5	4.2	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Ranger Russet	WR20	1.0	4.0	3.0	4.0	3.8	5.0	5.0	5.0	4.2	5.0	5.0	0	0	7	0
Russet Norkotah 278	TXRU20	1.0	4.5	4.5	4.0	4.5	5.0	5.0	5.0	4.6	4.2	5.0	0	0	7	0
COTX13029-2Ru/Y	TXRU20	4.0	1.0	4.8	4.0	4.8	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
OR12133-10	WR20	1.0	4.0	1.3	4.0	1.3	5.0	5.0	5.0	4.7	5.0	5.0	0	0	7	0
Clearwater Russet	WR20	1.0	3.5	4.0	4.0	4.0	5.0	5.0	5.0	4.9	5.0	5.0	0	0	10	0
ATX13018-2Ru	TXRU20	1.0	4.0	3.0	4.0	3.0	4.9	5.0	5.0	4.8	5.0	5.0	0	0	7	0
A07769-4	WR20	1.0	2.9	2.0	4.2	2.6	5.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
COTX15271-1Ru	TXRU20	1.0	3.8	3.8	4.0	3.8	5.0	5.0	5.0	4.8	5.0	3.7	0	0	3	0
A10021-5TE	WR20	1.0	4.3	3.0	4.0	3.0	5.0	5.0	5.0	4.2	5.0	5.0	0	0	20	0
Dal17001RuRua	TXRU20	1.0	2.9	4.4	4.0	4.1	5.0	5.0	5.0	4.8	5.0	5.0	0	0	3	67
AOTX05043-1Ru	TXRU20	1.0	3.8	4.1	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	7	0
COTX10080-2Ru	TXRU20	1.0	3.8	4.5	4.0	4.4	5.0	5.0	5.0	4.8	5.0	5.0	0	0	0	0
CO10091-1RU	WR20	1.0	2.5	4.5	4.0	4.5	4.8	5.0	5.0	4.8	4.8	5.0	0	0	3	0
Average		1.2	3.7	3.6	4.1	3.7	5.0	5.0	5.0	4.7	4.9	5.0	0.0	0	5	2
L.S.D. (.05)		0.4	0.2	0.1	0.1	0.1	ns	0.3	0.0	0.0	0.2		0.0	0.0	10.8	3.5

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

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

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

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

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

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

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

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

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

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

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

Springlake Table 1e. Notes and general rating for all reps of 38 entries in the Western and Southwest Regional Russet and Advanced Texas selections Trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
TX13590-9Ru	TXRU20	large, , ,	high tuber number, nice, parent, TX13590-9Ru has darker skin and larger tubers than	4, 3.8, 3.8,	4.2, 4.2, 4.2
COTX09022-3Rure/Y	TXRU20	red eye, round, high tuber number, round, ,	high tuber number, uniform size, nice, unique pattern, pink eyes, high tuber	3.8, 4.5, ,	4.2, 4.5, 4.4
AOR08540-1	WR20	high tuber number, long, high tuber number, ,	nice shape, medium size, uniform size, uniform shape, pointed,	4, 4.2, ,	4.2, 3.8, 3.7
Vanguard Russet	ADV RU20	bulky, bulky, large, ,	blocky, BOT, BOT	4.4, 4.6,	3.8, 4.5, 4.5
Russet Norkotah 296	TXRU20	long tubers, nice, long, nice,	very nice, bruises dark, nice, bruises dark, longer than other RN, bruises dark	3.8, 4.5, 4.2,	4.2, 4.4, 4.4
Sierra Gold	TXRU20	round russet, good size, chip, roundish, round to oval,	nice, bruises dark, roundish, , nice	4, 4.5, 4.2,	4, 4.4, 4.4
CO11009-3RU	WR20	nice, high tuber number, skinny, long, good skin,	nice size, good skin, uniform shape, uniform size, nice shape, thin, some	4, 3.4, 4.5,	4.2, 4, 4.5
Shepody	WR20	light skin, heat sprouts, light skin, pointed, ,	light skin, nice, many heat sprouts, many heat sprouts, light skin	4, 3.5, 0,	3.7, 3.8, 3.8
TXA549-1Ru	TXRU20	a little smaller than TX13590-9Ru, , ,	, short,	3.8, 4, ,	3.6, 3.7, 3.8
Russet Norkotah	WR20	pointed, nice shape, good size, ,	, ,	3.6, 4.5, ,	3.8, 4.2, 4.2
COTX08063-2Ru	SW20	light skin, , ,	high tuber number, very nice, ,	3.7, , ,	4.2, ,
Russet Burbank	WR20	heat sprouts, bad shape, bad shape, heat sprout, knobs, high tuber number, knobs,	all deformed, heat sprouts, many knobs, many deformed, many knobs, many	3.3, 3.4, 3.3,	3, 3.3, 3.5
ATX10007-1Ru	TXRU20	large bulky, light skin, BOT, Bruce likes, , ,	BOT, enter in TC, parent, , ,	5, , ,	4.5, ,
Reveille Russet	ADV RU20	nice shape, high tuber number, , ,	feels soft, not mature?, shrinking, nice shape, nice size, very good rep, nice shape,	4.5, 4.2, 4.2,	3.7, 4.4, 3.8
Russet Norkotah 223	TXRU20	nice, nice, very nice,	nice russetting, nice shape, nice size, bruises dark, one tuber had internal damage	3.8, 4.2, 3.7,	4, 4.2, 4.2
A071012-4BF	WR20	pointed, angular, good size, angular,	dark bruising, dark bruising, dark bruising	3.7, 4, 3.8,	3.4, 3.7, 3.7
CO10085-1RU	WR20	few tubers, heat sprouts, heat sprouts, heat sprouts,	many smalls, non-uniform size, many heat sprouts, many heat sprouts, chain tubers	3.3, 3.5, 3.7,	3, 3.3, 3.4
ATX10378-3Ru/Y	TXRU20	some round, bad skin, drop, ,	road map skin, bad skin, DROP, intense yellow flesh, ,	3.6, 3.4, ,	3.6, 3.6, 3.6
CO12378-1RU	SW20	heat sprouts, , nice size and shape,	skin stiches, heavy skin, short, nice skin, ,	3.8, 3.6, 3.8,	3.6, 3.6, 3.7
CO10087-4RU	WR20	heat sprouts, high tuber number, nice, bulky, nice, bulky,	nice skin, heavy skin, small, very nice shape, size and appearance,	4.2, 4.2, 3.8,	4.2, 4, 4.2
AOR10204-3	WR20	heat sprouts, pointed, long, pointed, light eyes, pointed, heat sprouts,	uniform size and shape, pretty, BOT, long, light round eyes, many eyes, round opened eyes, pretty eyes, pointed	3.5, 3.4, 4.6,	3.8, 3.8, 3.8
CO12152-1RU	SW20	heat sprouts, light skin, medium size, ,	, nice skin, short tubers, good rep, medium to small tubers, nice skin, uniform size,	3.7, 3.8, 3.7,	3.6, 4, 4
POR12NCK50-1	WR20	heat sprouts, medium size, ,	, ,	3.6, 3.8, ,	3.6, 3.7, 3.7
COTX08322-10Ru	TXRU20	bulky, , ,	bruises dark, parent, it had high virus load in Colorado, heat sprouts,	3.9, 3.8, 3.8,	3.7, 4, 3.7
Stampede Russet	TXRU20	nice shape and size, nice, bulky, ,	very nice skin, medium shape, nice, parent, very nice skin, parent, BOT, parent for	4, 4.2, 3.7,	4, 4, 4.2
Ranger Russet	WR20	heat sprouts, , ,	heat sprouts, nice, heat sprouts, heat sprouts	3.4, 3.7, 3.7,	3.4, 3.7, 3.7
Russet Norkotah 278	TXRU20	good shape, , ,	, nice, good size, shorter than RN296, keep an eye on this one, intense yellow	3.8, 4, ,	3.8, 4.2, 3.8
COTX13029-2Ru/Y	TXRU20	round russet, good size, chip, round, round, heavy skin,	flesh, round, Yellow Rose class?, it does	3.7, 3.8, 3.6,	4, 4, 3.8
OR12133-10	WR20	light skin, light skin, small, ,	light skin, pointed, not uniform skin,	3.7, 3.4, ,	3.6, 3.5, 3.6
Clearwater Russet	WR20	small, high tuber number, high tuber number, small, ,	heat sprouts, small, nice skin, nice shape, uniform size, uniform shape, small,	3.8, 3.8, 3.5,	3.6, 3.6, 3.6
ATX13018-2Ru	TXRU20	not uniform size, not uniform size, ,	road map skin, DROP, bad skin, , bad skin, dislike skin	3.8, 3.6, ,	3.6, 3.6, 3.6
A07769-4	WR20	heat sprouts, light skin, medium, ,	, ,	3.7, 3.8, 3.4,	3.4, 3.7, 3.7
COTX15271-1Ru	TXRU20	knobs, heat sprouts, medium size, ,	, ,	3.6, 3.8, ,	3.6, 3.7, 3.8
A10021-5TE	WR20	heat sprouts, pointed, heat sprouts, pointed, light skin, ,	, knobs, heat sprouts,	3.6, 3.4, 3.6,	3.5, 3.5, 3.5
Dal17001RuRua	TXRU20	small, medium size, ,	small, DROP, good skin, non-uniform size,	3.5, 3.7, ,	3.4, 3.5, 3.4
AOTX05043-1Ru	TXRU20	short, , ,	nice shape, nice skin, , few tubers	3.8, 3.7, ,	3.7, 3.6, 3.6
COTX10080-2Ru	TXRU20	few tubers, pointed, not uniform, ,	pointed, DROP, heavy skin, heavy skin	3.5, 3.6, ,	2.6, 3.6, 3.6
CO10091-1RU	WR20	few tubers, not uniform size, small, few tubers, not uniform size,	few tubers, intense russet, non-uniform size, non-uniform shape, ,	3.2, 3.4, 4.2,	2.8, 3, 3.3

# Western, Southwestern Regional, and Texas Advanced Specialty Trial, Springlake

This trial consisted of forty entries, including the check varieties Red LaSoda, Modoc, Purple Majesty, Yukon Gold, and Chieftain.

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

- Chieftain and COTX15083-1R had a high general rating and best of trial designations. AORTX11913-3Wre, Sierra Rose, ATTX98444s-16R/Y, NDTX4784-7R, NDTX071258B-1R, PORTX03PG25-2R/R, and ATX11549-1P/Y had a best of trial designations.
- AORTX11913-3Wre, Red LaSoda, A08112-7R, NDTX071258B-1R, ATX11586-2R/Y, TX14646-1WR/YPinto, COTX10118-4Wpe/Y, and ATX06264s-4R/Y had high general ratings (Table 2a).
- Red LaSoda had the highest total and marketable yield. A08112-7R and CO10098-5W/Y had the highest yield of less than 4 oz. tubers (Table 2a).
- PORTX03PG25-2R/R had the highest percentage of marketable yield. POR14PG22-3 had the highest percentage of less than 4 oz. tubers (Table 2b).
- A08112-7R, ATX06264s-4R/Y, and POR14PG22-3 had the highest average number of tubers per plant. Banana, COTX08365F-3P/P, ATTX10265-4R/Y, NDTX059759-3R/Y Pinto, COTX04050s-1P/P, ATX06264s-4R/Y, and POR14PG22-3 were the latest in maturity, while NDTX071258B-1R, ATTX98444s-16R/Y, ATX11549-1P/Y, and COTX10012-1Wrdspl/Y were the earliest in maturity (Table 2c).
- COTX04050s-1P/P had the darkest purple flesh color. COTX04193s-2R/Y and CO10098-5W/Y had the darkest yellow flesh color. Red LaSoda had the deepest eyes, while NDTX4784-7R had the darkest red skin color (Table 2d).

## Comments on entries:

- Banana                                      Long White                                      heat sprouts++, chain tubers++, very deformed+, heat sprouts, FC=1.5
- COTX08365F-3P/P                              Oblong Purple                                      late, fingerling, heat sprouts, chain tubers, parent for fingerlings, purple marble, fingerling, FC=4.0

- COTX15083-1R Round Red small-medium, intense skin color++, nice, some sticky stolons, mixed white and red flesh, high tuber number, heat sprouts, BOT, FC=1.0
- NDTX071258B-1R Round Red small, high tuber number, very uniform size and shape, bright red skin+, BOT, FC=1.0
- NDTX12248Y-1R Round Red medium size, test for PVY, nice, low tuber number, medium size, nice skin color, FC=1.0
- NDTX4784-7R Round Red very nice, intense skin color, high tuber number, growth cracks+, nice, BOT, DROP, FC=1.0
- ATTX05175s-1R/Y Round Red very high tuber number+, small, uniform size and shape, heat sprouts, compressed tubers, FC=3.0
- ATTX10265-4R/Y Round Red nice, flat, high tuber number, bright red skin color, FC=3.5
- ATTX11633-1RYPinto/Y Round Red/Pinto spectacle, high tuber number, uniform size and shape, mixed skin color, FC=3.0
- ATTX98444s-16R/Y Round Red small, high tuber number, uniform size, and shape, nice, BOT, FC=3.0
- ATX02263-1R/Y Oval Red some pointed, not uniform shape, mixed flesh color white and yellow, pears, DROP, FC=2.0
- ATX11549-1P/Y Round Purple wine skin color, uniform size and shape, nice skin flesh combination, nice skin, BOT, FC=2.5
- ATX11586-2R/Y Oblong Red bright skin color, oval, uniform shape+, uniform size+, nice, intense red flesh, nice, smooth skin, shiny, FC=2.5
- NDTX059759-3R/Y Pinto Round Red/Pinto spectacle, flat unique, nice, heat sprouts, small, smaller than usual, not as flat as I remember, pink streaks in the flesh 10%, FC=2.7
- NDTX091886-3P/P Round Purple very dark skin color, grayish skin, flesh mix purple and yellow, very intense purple flesh,

- NDTX092237C-2P/W Round Purple uniform purple flesh, heat sprouts, very dark skin, hard to cut, FC=4.4
- Sierra Rose Oval Red red wine skin color, white flesh with purple tint vascular+, noticeable lenticels, grayish, FC=1.0
- TX14646-1WR/YPinto Oval Red/Pinto medium size, very nice+, mixed white and yellow flesh, BOT, FC=2.5
- COTX04050s-1P/P Round Purple spectacle, nice, yellow pinkish tint flesh++, nice skin pattern, healthy-looking, FC=3.0
- AORTX11913-3Wre Round White/Red Eye lenticels, extremely intense purple flesh++, heat sprouts, skinning small, DROP, FC=4.8
- ATTX07230-4Yre/Y Round White/Red Eye white skin, pink eye shadow, high tuber number++, uniform size and shape+, BOT, FC=1.6
- COTX10012-1Wrdspl/Y Round White/Red Splash not uniform skin pattern, dislike skin pattern, nice, DROP, FC=1.8
- COTX10118-4Wpe/Y Round White/Purple Eye pink eyes, small, heat sprouts, few tubers, FC=3.2
- COTX10138-15Wpe/Y Round White/Purple Eye unique pattern, unique skin color combination, purple eyes, and shadow+, FC=3.0
- NDTX081451CBs-1Y/Y Round White high tuber number, small, late?, unique skin color combination, dark purple eyes+ and shadow, visible lenticels, mixed skin pattern some do not have purple eyes, road mapping, FC=2.6
- COTX04193s-2R/Y Round Red small-medium+, smooth, high tuber number+, uniform size, uniform shape, FC=3.0
- Chieftain Round Red small high tuber number+, uniform size and shape+, smooth skin+, intense skin color, nice, FC=4.0
- Chieftain Round Red large, high tuber number, nice skin color, uniform shape, uniform size, a little flat, large tubers, BOT, FC=1.0



- Red LaSoda Round Red large+, deep eyes+, high tuber number+, skin color, nice, impressive high yield, FC=1.0
- Modoc Round Red very few tubers++, intense skin, FC=1.0
- A08112-7R Round Red high tuber number, small, late? very nice, uniform size and shape, parent for small size and skin color, heat sprouts, FC=1.5
- ATX06264s-4R/Y Round Red small, some pointed, attached stolons, very nice skin color, high tuber number+, intense skin color+, FC=3.0
- Yukon Gold Round White medium size, nice, FC=3.0
- CO10064-1W/Y Round White small+, pink eyes, high tuber number, uniform size, FC=3.2
- CO10098-5W/Y Round White small++, high tuber number++, uniform size, and shape+, heat sprouts+, FC=4.0
- CO11250-1W/Y Round White medium size, pink eyes+, oval, heat sprouts, skin road mapping, netted skin, FC=3.0
- CO11266-1W/Y Round White small, high tuber number+, pink eyes+, some skin netting, heat sprouts, some pointed, dislike skin, several intact seed pieces, FC=2.7
- POR14PG22-3 Round White very small tubers++, late? heat sprouts, uniform size+, flesh white and creamy mixed+, high tuber number, uniform shape, FC=1.2
- PORTX03PG25-2R/R Oblong Red intense red skin, uniform size and shape, unique shape, oblong to fingerling, hard to cut, BOT for this class+, FC=4.0
- Purple Majesty Ova Purple high tuber number, very intense skin color, purple marble, road mapping, dirty look, netted skin BOT for this class+, FC=4.0
- Paroli Round White uniform size and shape, enlarged lenticels+, dislike skin+, oval to oblong, BOT for yellow class, FC=2.9

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

Summary:

Chieftain, COTX15083-1R, AORTX11913-3Wre, Sierra Rose, ATTX98444s-16R/Y, NDTX4784-7R, NDTX071258B-1R, PORTX03PG25-2R/R, and ATX11549-1P/Y were the best entries overall.

Disposition: [See Appendix C.](#)

Springlake  
Table 2a.

Total yield, total yield of U.S. No.1, over 18 oz, under 4 oz and culls/No.2 potatoes and general rating of 40 entries in the Western Regional and Southwest Red Specialty Trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Total Yield cwt/a	U.S. No. 1 cwt/a			Over 18 oz cwt/a	Under 4 oz. cwt/a	Culls/ No.2 cwt/a	General Rating <sup>1</sup> Field	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz						10-18 oz
Banana	Fing20	114.8	95.1	91.3	3.8	0.0	0.0	0.0	19.7	3.4	3.3
COTX08365F-3P/P	Fing20	153.6	143.5	114.0	29.5	0.0	0.0	0.0	10.1	3.6	3.7
COTX15083-1R	Red20	286.9	44.0	38.6	5.4	0.0	0.0	233.7	9.2	4.0	4.3
NDTX071258B-1R	Red20	167.2	19.7	18.7	1.0	0.0	0.0	146.8	0.7	4.4	4.0
NDTX12248Y-1R	Red20	156.5	124.5	55.4	62.0	7.0	0.0	31.1	0.9	4.0	3.9
NDTX4784-7R	Red20	241.0	91.2	52.5	32.4	6.2	0.0	132.2	17.6	4.5	3.8
ATTX05175s-1R/Y	RY20	235.0	8.9	8.9	0.0	0.0	0.0	223.6	2.5	4.2	3.9
ATTX10265-4R/Y	RY20	299.4	52.9	37.3	15.6	0.0	0.0	240.3	6.2	4.2	3.8
ATTX11633-1RY Pinto/Y	RY20	217.2	46.9	45.2	1.7	0.0	0.0	168.5	1.8	4.3	3.9
ATTX98444s-16R/Y	RY20	182.5	5.5	5.5	0.0	0.0	0.0	174.4	2.6	4.5	3.8
ATX02263-1R/Y	RY20	193.6	25.9	22.0	3.9	0.0	0.0	165.4	2.3	3.6	3.6
ATX11549-1P/Y	RY20	178.7	79.7	56.5	21.4	1.8	0.0	92.0	7.0	3.7	3.8
ATX11586-2R/Y	RY20	215.4	33.8	30.8	3.0	0.0	0.0	179.1	2.5	3.6	4.0
NDTX059759-3R/Y Pinto	RY20	130.4	21.7	16.0	5.6	0.0	0.0	108.8	0.0	3.7	3.7
NDTX091886-3P/P	RY20	160.6	31.7	30.0	1.7	0.0	0.0	128.5	0.5	3.6	3.6
NDTX092237C-2P/W	RY20	173.3	62.5	38.7	23.7	0.0	0.0	110.1	0.8	3.6	3.6
Sierra Rose	RY20	146.8	77.2	34.2	32.2	10.8	0.0	66.3	3.3	4.4	3.9
TX14646-1WR/Y Pinto	RY20	163.9	89.0	50.9	38.0	0.0	0.0	73.2	1.7	4.0	4.0
COTX04050s-1P/P	SM20	195.1	14.5	14.5	0.0	0.0	0.0	180.6	0.0	3.8	3.6
AORTX11913-3Wre	W/Y20	253.9	84.0	63.0	21.0	0.0	0.0	167.9	2.0	4.2	4.4
ATTX07230-4Yre/Y	W/Y20	189.9	77.2	50.0	25.6	1.6	0.0	104.5	8.2	3.2	3.8
COTX10012-1Wrdspl/Y	W/Y20	128.6	19.7	17.3	2.4	0.0	0.0	108.4	0.5	3.6	3.6
COTX10118-4Wpe/Y	W/Y20	234.6	70.8	43.3	27.4	0.0	0.0	161.7	2.2	3.8	4.0
COTX10138-15Wpe/Y	W/Y20	237.5	48.6	34.3	14.3	0.0	0.0	187.6	1.3	4.2	3.8
NDTX081451CBs-1Y/Y	W/Y20	270.1	50.7	37.8	6.9	6.0	0.0	217.7	1.7	4.4	3.8
COTX04193s-2R/Y	RY20	211.6	31.9	27.0	5.0	0.0	0.0	178.5	1.2	4.6	3.8
Chieftain	WR20	288.0	222.5	72.8	102.8	46.9	0.0	61.8	3.7	4.2	4.4
Red LaSoda	WR20	400.8	341.2	84.7	190.9	65.6	0.0	59.6	0.0	4.0	4.4
Modoc	WR20	38.9	19.9	13.1	6.7	0.0	0.0	17.5	1.6	2.0	2.0
A08112-7R	WR20	270.2	10.6	10.6	0.0	0.0	0.0	257.6	2.1	3.8	4.4
ATX06264s-4R/Y	WR20	304.5	47.2	33.3	13.9	0.0	0.0	243.7	13.5	3.6	4.0
Yukon Gold	WR20	180.6	121.0	47.9	62.3	10.7	0.0	56.4	3.2	3.7	3.9
CO10064-1W/Y	WR20	231.9	34.3	31.3	3.0	0.0	0.0	194.6	2.9	3.8	3.7
CO10098-5W/Y	WR20	273.1	10.8	10.8	0.0	0.0	0.0	258.4	3.9	4.0	3.7
CO11250-1W/Y	WR20	264.2	78.4	53.6	24.8	0.0	0.0	185.9	0.0	3.7	3.6
CO11266-1W/Y	WR20	263.4	17.2	17.2	0.0	0.0	0.0	242.7	3.6	3.6	3.6
POR14PG22-3	WR20	121.5	6.2	6.2	0.0	0.0	0.0	115.2	0.0	2.0	3.5
PORTX03PG25-2R/R	WR20	201.0	199.5	145.4	8.0	46.1	0.0	0.0	1.5	4.2	3.9
Purple Majesty	RY20	317.6	48.9	34.8	11.5	2.5	0.0	261.6	7.1	4.4	2.7
Paroli	Hig20	228.1	121.2	80.4	40.8	0.0	0.0	96.1	10.7	4.6	3.8
Average		210.1	63.8	38.3	21.3	4.2	0.0	142.5	3.8	3.8	3.8
L.S.D. (.05)		59.6	37.1	23.8	21.9	21.1	0.0	45.9	6.0		0.2

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

Springlake  
Table 2b.

Percent by weight of U.S. No. 1, over 18 oz, under 4 oz, culls/No.2 potatoes, specific gravity, tuber type and skin type of 40 entries in the Western Regional and Southwest Red Specialty Trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/No. 2				
Banana	Fing20	82.6	78.6	4.0	0.0	0.0	0.0	17.4	1.073	15.5	Long	White
COTX08365F-3P/P	Fing20	93.8	74.9	18.8	0.0	0.0	0.0	6.2	1.048	11.1	Oblong	Purple
COTX15083-1R	Red20	15.9	14.2	1.7	0.0	0.0	80.7	3.4	1.054	12.2	Round	Red
NDTX071258B-1R	Red20	12.1	11.6	0.5	0.0	0.0	87.4	0.4	1.065	14.1	Round	Red
NDTX12248Y-1R	Red20	80.1	36.5	39.9	3.7	0.0	19.4	0.5	1.067	14.5	Round	Red
NDTX4784-7R	Red20	37.4	21.8	13.1	2.4	0.0	55.0	7.6	1.061	13.3	Round	Red
ATTX05175s-1R/Y	RY20	3.3	3.3	0.0	0.0	0.0	95.4	1.3	1.067	14.4	Round	Red
ATTX10265-4R/Y	RY20	17.7	12.5	5.2	0.0	0.0	80.3	2.1	1.060	13.2	Round	Red
ATTX11633-1RYPinto/Y	RY20	21.6	20.7	0.9	0.0	0.0	77.5	0.9	1.065	14.1	Round	Red/Pinto
ATTX9844s-16R/Y	RY20	3.2	3.2	0.0	0.0	0.0	95.5	1.3	1.072	15.4	Round	Red
ATX02263-1R/Y	RY20	12.5	11.0	1.6	0.0	0.0	85.9	1.6	1.064	13.9	Oval	Red
ATX11549-1P/Y	RY20	43.2	30.5	11.7	1.0	0.0	52.7	4.2	1.071	15.3	Round	Red
ATX11586-2R/Y	RY20	14.9	13.7	1.1	0.0	0.0	84.1	1.0	1.061	13.5	Oblong	Red
NDTX059759-3R/Y Pinto	RY20	15.6	12.3	3.2	0.0	0.0	84.4	0.0	1.053	12.0	Round	Red/Pinto
NDTX091886-3P/P	RY20	20.1	19.1	1.0	0.0	0.0	79.6	0.3	1.072	15.3	Round	Purple
NDTX092237C-2P/W	RY20	36.1	22.2	13.9	0.0	0.0	63.5	0.4	1.072	15.4	Round	Purple
Sierra Rose	RY20	54.5	22.2	26.0	6.3	0.0	43.8	1.6	1.065	14.0	Oval	Red
TX14646-1WR/YPinto	RY20	53.6	30.6	23.0	0.0	0.0	45.4	1.0	1.062	13.5	Oval	Red/Pinto
COTX04050s-1P/P	SM20	6.7	6.7	0.0	0.0	0.0	93.3	0.0	1.065	14.2	Round	Purple
AORTX11913-3Wre	W/Y20	31.2	24.2	7.0	0.0	0.0	67.9	0.8	1.065	14.0	Round	White/Red Eye
ATTX07230-4Yre/Y	W/Y20	41.7	25.9	15.0	0.8	0.0	54.1	4.2	1.060	13.2	Round	White/Red Eye
COTX10012-1Wrdspl/Y	W/Y20	15.9	14.2	1.7	0.0	0.0	83.8	0.3	1.063	13.8	Round	White/Red Splash
COTX10118-4Wpe/Y	W/Y20	30.3	18.8	11.5	0.0	0.0	68.7	1.0	1.057	12.7	Round	White/Purple Eye
COTX10138-15Wpe/Y	W/Y20	21.0	14.8	6.2	0.0	0.0	78.4	0.5	1.068	14.6	Round	White/Purple Eye
NDTX081451CBs-1Y/Y	W/Y20	18.7	14.1	2.6	2.0	0.0	80.6	0.7	1.077	16.2	Round	White
COTX04193s-2R/Y	RY20	15.1	12.8	2.3	0.0	0.0	84.4	0.5	1.064	13.9	Round	Red
Chieftain	WR20	77.3	27.8	35.7	13.7	0.0	21.2	1.5	1.063	13.7	Round	Red
Red LaSoda	WR20	85.0	21.2	47.3	16.5	0.0	15.0	0.0	1.063	13.8	Round	Red
Modoc	WR20	48.9	36.0	12.8	0.0	0.0	45.0	6.2	1.061	13.4	Round	Red
A08112-7R	WR20	4.0	4.0	0.0	0.0	0.0	95.0	1.0	1.060	13.2	Round	Red
ATX06264s-4R/Y	WR20	14.9	10.6	4.3	0.0	0.0	80.4	4.7	1.061	13.4	Round	Red
Yukon Gold	WR20	66.0	28.1	33.5	4.4	0.0	32.6	1.4	1.073	15.5	Round	White
CO10064-1W/Y	WR20	16.2	14.2	2.0	0.0	0.0	82.8	1.0	1.074	15.6	Round	White
CO10098-5W/Y	WR20	4.1	4.1	0.0	0.0	0.0	94.4	1.5	1.083	17.3	Round	White
CO11250-1W/Y	WR20	28.6	19.9	8.7	0.0	0.0	71.4	0.0	1.072	15.3	Round	White
CO11266-1W/Y	WR20	6.3	6.3	0.0	0.0	0.0	92.5	1.2	1.067	14.4	Round	White
POR14PG22-3	WR20	3.2	3.2	0.0	0.0	0.0	96.8	0.0	1.062	13.5	Round	White
PORTX03PG25-2R/R	WR20	99.3	77.7	3.9	17.8	0.0	0.0	0.7	1.063	13.7	Oblong	Red
Purple Majesty	RY20	15.9	11.7	3.6	0.7	0.0	82.0	2.1	1.073	15.6	Oval	Purple
Paroli	Hig20	52.6	37.0	15.6	0.0	0.0	43.0	4.4	1.067	14.4	Round	White
Average		31.2	20.2	9.6	1.4	0.0	66.7	2.1	1.065	14.1		
L.S.D. (.05)		10.8	11.5	8.9	7.7	0.0	10.0	3.4	0.007	1.1		

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Table 2c.

Average number of tubers and stems per plant, tuber weight, percent stand 40 and 60 days after planting, plant characteristics, percent dead vine at vine kill, length/with, and with/thickness, length cm, with cm, and thickness cm of 4 1=very small, 2=small, 3=medium, 4=large, 5=very large entries in the Western Regional and Southwest Red Specialty Trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Average Number Tubers/Plant	Average Number Stems/Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines	Length/With	With/Thickness	Length cm	With cm	Thickness cm
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>						
Banana	Fing20	7.9	1.7	1.3	100	100	2.2	3.1	5.0	3.1	0	2.21	1.09	8.4	3.8	3.5
COTX08365F-3P/P	Fing20	7.1	1.6	1.9	98	100	1.8	3.5	5.0	3.6	0	2.06	1.10	8.7	4.2	3.9
COTX15083-1R	Red20	13.3	1.6	1.9	94	96	2.0	3.6	4.8	3.6	2	1.14	1.06	6.4	5.6	5.2
NDTX071258B-1R	Red20	7.4	2.3	1.9	100	100	2.0	3.5	2.5	3.6	70	1.11	1.09	5.4	4.9	4.5
NDTX12248Y-1R	Red20	3.7	1.5	4.0	82	89	1.5	3.1	3.4	3.1	42	1.14	1.14	7.5	6.6	5.8
NDTX4784-7R	Red20	7.5	1.5	2.6	89	100	2.0	3.4	3.3	3.5	50	1.19	1.04	7.0	5.9	5.7
ATTX05175s-1R/Y	RY20	15.6	2.1	1.2	100	100	2.0	3.7	4.5	3.7	8	1.07	1.17	5.5	5.1	4.4
ATTX10265-4R/Y	RY20	11.0	1.5	2.2	89	100	1.5	3.5	5.0	3.4	0	1.02	1.38	6.7	6.6	4.8
ATTX11633-1RYPinto/Y	RY20	7.9	1.9	2.3	95	100	2.0	3.3	3.7	3.5	22	1.17	1.19	7.0	6.0	5.0
ATTX98444s-16R/Y	RY20	10.6	2.0	1.4	100	100	1.5	3.6	2.8	3.7	72	1.04	1.23	5.5	5.3	4.3
ATX02263-1R/Y	RY20	8.6	1.5	1.9	100	100	1.7	3.4	3.8	3.5	25	1.34	1.13	7.3	5.4	4.8
ATX11549-1P/Y	RY20	5.1	2.1	2.9	100	100	2.0	3.6	2.6	3.7	77	1.08	1.22	7.1	6.6	5.4
ATX11586-2R/Y	RY20	10.0	1.7	1.8	100	100	2.2	3.8	4.8	3.7	5	1.39	1.09	7.2	5.2	4.8
NDTX059759-3R/Y Pinto	RY20	6.0	1.6	1.8	100	100	2.2	3.5	5.0	3.5	0	1.15	1.23	6.9	6.0	4.9
NDTX091886-3P/P	RY20	7.3	1.9	1.8	100	100	2.0	4.2	4.7	4.2	5	1.19	1.24	7.2	6.0	4.9
NDTX092237C-2P/W	RY20	6.1	1.6	2.5	89	95	2.0	3.5	3.7	3.6	15	1.19	1.15	7.1	6.0	5.2
Sierra Rose	RY20	8.1	1.6	2.9	37	51	2.2	2.2	3.9	3.8	17	1.32	1.10	7.7	5.8	5.3
TX14646-1WR/YPinto	RY20	4.4	1.4	3.6	70	87	1.5	2.8	3.4	3.0	52	1.33	1.18	8.6	6.4	5.4
COTX04050s-1P/P	SM20	10.0	1.4	1.7	100	100	1.8	3.7	5.0	3.7	0	1.12	1.05	5.7	5.1	4.9
AORTX11913-3Wre	W/Y20	7.6	2.0	2.7	100	100	2.3	4.1	3.7	4.1	32	1.10	1.09	6.7	6.1	5.6
ATTX07230-4Yre/Y	W/Y20	5.4	1.5	3.0	95	100	1.7	3.3	3.5	3.4	38	1.13	1.06	7.2	6.4	6.1
COTX10012-1Wrdspl/Y	W/Y20	6.6	1.6	2.0	98	98	1.7	2.8	2.7	2.9	67	1.10	1.09	5.8	5.2	4.8
COTX10118-4Wpe/Y	W/Y20	9.6	1.4	2.0	100	100	1.8	3.7	4.8	3.8	3	1.18	1.32	7.8	6.6	5.1
COTX10138-15Wpe/Y	W/Y20	11.7	2.1	1.7	100	100	2.0	3.7	3.3	3.7	55	1.01	1.14	6.1	6.0	5.3
NDTX081451CBs-1Y/Y	W/Y20	11.2	2.1	2.0	100	100	2.5	4.2	4.0	4.2	15	1.11	1.30	7.1	6.4	4.9
COTX04193s-2R/Y	RY20	6.5	1.9	7.1	93	96	1.8	3.8	3.4	3.8	52	1.15	1.20	6.6	5.7	4.7
Chieftain	WR20	5.6	1.6	4.2	94	100	1.7	3.6	3.7	3.7	18	1.12	1.18	7.2	6.4	5.4
Red LaSoda	WR20	7.0	2.1	4.7	100	100	1.8	4.2	4.6	4.1	3	1.06	1.15	6.8	6.4	5.6
Modoc	WR20	7.4	1.9	3.1	16	16	1.8	1.0	4.5	2.3	3	1.20	1.13	7.1	5.9	5.2
A08112-7R	WR20	17.3	2.3	1.3	90	98	2.0	3.9	4.9	3.9	0	1.14	1.11	5.4	4.8	4.3
ATX06264s-4R/Y	WR20	16.4	2.2	1.6	90	94	2.0	3.8	5.0	3.8	0	1.05	1.20	6.5	6.2	5.2
Yukon Gold	WR20	5.1	1.3	3.6	68	81	1.3	3.5	3.0	3.6	50	1.16	1.13	7.0	6.1	5.4
CO10064-1W/Y	WR20	9.5	1.8	2.1	87	100	2.2	3.9	5.0	4.0	0	1.10	1.15	6.4	5.8	5.2
CO10098-5W/Y	WR20	13.6	2.0	1.7	100	100	2.6	4.2	3.5	4.1	32	1.04	1.30	5.7	5.5	4.3
CO11250-1W/Y	WR20	8.3	2.0	2.7	98	100	1.8	3.9	4.8	3.9	0	1.24	1.10	7.0	5.7	5.1
CO11266-1W/Y	WR20	14.5	2.1	1.5	100	100	1.8	3.7	4.3	3.7	7	1.13	1.19	6.3	5.6	4.7
POR14PG22-3	WR20	16.0	1.8	0.6	89	95	2.0	3.5	5.0	3.6	0	1.02	1.11	4.6	4.4	4.0
PORTX03PG25-2R/R	WR20	9.2	1.6	2.0	95	100	1.8	3.2	4.8	3.2	2	1.80	1.04	7.6	4.2	4.1
Purple Majesty	RY20	13.7	2.3	1.9	100	100	2.3	4.3	3.5	4.3	32	1.35	1.20	7.4	5.5	4.6
Paroli	Hig20	8.1	1.6	2.7	100	100	2.2	3.9	3.4	3.8	35	1.25	1.13	7.9	6.3	5.6
Average		9.1	1.8	2.4	91	95	1.9	3.5	4.1	3.6	23	1.20	1.16	6.8	5.7	5.0
L.S.D. (.05)		3.2	0.3	2.1	11	9	0.3	0.4	0.4	0.3	10	0.14	0.13	0.8	0.9	0.8

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

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

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

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

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Table 2d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 4 1=deep to 5=shallow entries in the Western Regional and Southwest Red Specialty Trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Greening <sup>11</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>11</sup>	Percent Internal Brownspot
Banana	Fing20	1.5	5.0	1.0	4.5	1.5	5.0	5.0	5.0	3.5	4.5	5.0	0	0	10	0
COTX08365F-3P/P	Fing20	4.0	4.5	1.0	4.5	4.5	5.0	5.0	5.0	5.0	4.5	5.0	0	0	0	0
COTX15083-1R	Red20	1.0	1.0	1.0	4.5	4.5	5.0	5.0	5.0	5.0	4.7	5.0	0	0	0	0
NDTX071258B-1R	Red20	1.0	1.0	1.0	3.8	3.3	5.0	5.0	5.0	5.0	4.5	5.0	0	0	0	3
NDTX12248Y-1R	Red20	1.0	1.5	1.0	4.0	3.0	5.0	5.0	5.0	5.0	4.0	5.0	0	0	0	0
NDTX4784-7R	Red20	1.0	1.0	1.0	4.0	4.2	4.0	5.0	5.0	5.0	4.0	5.0	0	0	0	0
ATTX05175s-1R/Y	RY20	3.0	1.0	1.0	3.5	4.0	5.0	5.0	5.0	5.0	4.5	5.0	0	0	0	0
ATTX10265-4R/Y	RY20	3.5	1.6	1.0	4.0	2.5	5.0	5.0	5.0	5.0	4.5	5.0	0	0	0	0
ATTX11633-1RYPinto/Y	RY20	3.0	1.0	1.0	3.8	2.5	5.0	5.0	5.0	5.0	4.3	5.0	0	0	0	0
ATTX98444s-16R/Y	RY20	3.0	1.0	1.0	3.8	4.0	5.0	5.0	5.0	5.0	4.5	5.0	0	0	0	0
ATX02263-1R/Y	RY20	2.0	2.5	1.0	4.5	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX11549-1P/Y	RY20	2.5	1.5	1.0	4.2	4.5	5.0	5.0	5.0	5.0	4.6	5.0	0	0	0	0
ATX11586-2R/Y	RY20	2.5	2.0	1.0	4.5	4.0	5.0	5.0	5.0	5.0	4.5	5.0	0	0	0	0
NDTX059759-3R/Y Pinto	RY20	2.7	2.2	1.0	4.5	4.0	5.0	5.0	5.0	5.0	4.3	5.0	0	0	0	0
NDTX091886-3P/P	RY20	4.4	2.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX092237C-2P/W	RY20	1.0	2.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	4.7	5.0	0	0	0	0
Sierra Rose	RY20	2.5	3.2	1.0	4.5	3.5	5.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
TX14646-1WR/YPinto	RY20	3.0	2.6	1.0	4.5	4.0	5.0	5.0	4.7	5.0	5.0	5.0	0	0	0	0
COTX04050s-1P/P	SM20	4.8	1.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	3.7	5.0	0	0	0	0
AORTX11913-3Wre	W/Y20	1.6	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX07230-4Yre/Y	W/Y20	1.8	1.0	1.0	4.0	1.6	4.8	5.0	5.0	5.0	5.0	5.0	0	0	0	7
COTX10012-1Wrdspl/Y	W/Y20	3.2	1.0	1.0	4.2	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	3
COTX10118-4Wpe/Y	W/Y20	3.0	2.2	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	4.8	0	0	0	3
COTX10138-15Wpe/Y	W/Y20	2.6	1.0	1.0	4.0	1.6	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	3
NDTX081451CBs-1Y/Y	W/Y20	3.0	1.8	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	7
COTX04193s-2R/Y	RY20	4.0	1.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Chieftain	WR20	1.0	2.0	1.0	3.9	2.5	4.8	5.0	5.0	5.0	3.9	5.0	0	0	0	0
Red LaSoda	WR20	1.0	1.5	1.0	3.5	3.0	5.0	5.0	5.0	5.0	3.3	5.0	3	0	17	0
Modoc	WR20	1.0	2.0	1.0	4.5	3.5	5.0	5.0	5.0	5.0	4.0	5.0	0	0	0	0
A08112-7R	WR20	1.5	1.0	1.0	4.5	4.0	5.0	5.0	5.0	5.0	4.3	5.0	0	0	3	0
ATX06264s-4R/Y	WR20	3.0	1.0	1.0	4.5	4.0	5.0	5.0	5.0	5.0	4.0	5.0	0	0	7	0
Yukon Gold	WR20	3.0	1.5	1.0	3.8	1.5	5.0	5.0	5.0	5.0	4.5	5.0	3	0	0	3
CO10064-1W/Y	WR20	3.2	1.0	1.0	4.0	2.0	5.0	5.0	5.0	5.0	4.5	5.0	0	0	3	0
CO10098-5W/Y	WR20	4.0	1.0	1.0	4.0	2.0	5.0	5.0	5.0	5.0	4.8	5.0	0	0	0	0
CO11250-1W/Y	WR20	3.0	1.9	1.0	3.8	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	7	0
CO11266-1W/Y	WR20	2.7	1.0	1.5	4.1	2.0	5.0	5.0	5.0	5.0	4.8	5.0	0	0	0	0
POR14PG22-3	WR20	1.2	1.0	1.0	4.5	1.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
PORTX03PG25-2R/R	WR20	4.0	4.5	1.0	4.5	4.5	5.0	5.0	5.0	5.0	4.5	5.0	0	0	0	0
Purple Majesty	RY20	4.0	2.0	1.3	4.4	4.5	5.0	5.0	5.0	5.0	4.5	5.0	0	0	0	0
Paroli	Hig20	2.9	2.1	1.0	4.5	1.0	5.0	5.0	5.0	5.0	5.0	4.8	0	0	0	0
Average		2.5	1.7	1.0	4.1	3.0	5.0	5.0	5.0	5.0	4.6	5.0	0.3	0	1	1
L.S.D. (.05)		0.2	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.3		ns	0.0	5.7	ns

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

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

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

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

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

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

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

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

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

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

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

Clone name/ID	Trial	Notes Field	Notes Grading	General Rating Field	General Rating Grading
Banana	Fing20	heat sprouts, chain tubers, . . .	heat sprouts, chain tubers, deformed, extreme heat sprouts, chain tubers, very deformed, light sprouts	3.4, . . .	3.3, 3.3, 3.3
COTX08365F-3P/P	Fing20	late, fingerling, . . .	heat sprouts, chain tubers, parent for fingerlings, purple marble, fingerling, . purple flesh with white sections, .	3.6, . . .	3.5, 3.7, 4
COTX15083-1R	Red20	small-medium, intense skin color, nice, . . . small, high tuber number, BOT, very	intense red skin color, BOT, some sticky stolons, ask Bruce, very intense skin color, mixed white and red flesh, high tuber number, very intense red skin, heat sprouts	4, . . .	4.4, 4.2, 4.2
NDTX071258B-1R	Red20	uniform size and shape, . . .	bright red skin, ask Bruce, bright red skin, .	4.4, . . .	4.2, 4, 3.8
NDTX12248Y-1R	Red20	medium size, Bruce likes, test for PVP, . . . very nice, intense skin color, high tuber	nice, low tuber number, medium size, nice skin color, Show Bruce	4, . . .	3.8, 3.8, 4
NDTX4784-7R	Red20	number, BOT, . . .	nice skin color, growth cracks, growth cracks, DROP, nice	4.5, . . .	3.7, 3.7, 4
ATTX05175s-1R/Y	RY20	very high tuber number, small, uniform size and shape, . . .	high tuber number, small, heat sprouts, compressed tubers	4.2, . . .	4.2, 3.7, 3.7
ATTX10265-4R/Y	RY20	nice, flat, high tuber number, . . . spectacle, high tuber number, uniform size	bright red skin color, . . .	4.2, . . .	3.8, . . .
ATTX11633-1RYPinto/Y	RY20	and shape, . . .	mixed skin color, . . .	4.3, . . .	3.8, 4, 4
ATTX98444s-16R/Y	RY20	small, high tuber number, uniform size and shape, BOT, . . .	nice, small, nice,	4.5, . . .	3.8, 3.7,
ATX02263-1R/Y	RY20	some pointed, . . .	pointed, not uniform shape, DROP, mixed flesh color white and yellow, pears, .	3.6, . . .	3.5, 3.5, 3.7
ATX11549-1P/Y	RY20	wine skin color, uniform size and shape, . . .	BOT, nice skin flesh combination, nice skin,	3.7, . . .	3.8, 3.6, 4
ATX11586-2R/Y	RY20	bright skin color, . . .	oval, uniform shape, uniform size, nice, uniform shape, uniform size, intense red flesh, nice, smooth skin, shiny, oval	3.6, . . .	3.8, 4.2, 4
NDTX059759-3R/Y Pinto	RY20	, spectacle, flat unique, . . .	nice, heat sprouts, small, smaller than usual, not as flat as I remember, pink streaks in flesh 10%,	3.7, . . .	3.7, 3.7, 3.7
NDTX091886-3P/P	RY20	very dark skin color, . . .	grayish skin, flesh mix purple and yellow, very intense purple flesh, uniform purple flesh, heat sprouts, very dark skin, hard to cut	3.6, . . .	3.6, 3.6, 3.6
NDTX092237C-2P/W	RY20	red wine skin color, . . .	white flesh with purple tint vascular, noticeable lenticels, grayish, white flesh with purple tint vascular,	3.6, . . .	3.6, 3.6, 3.6
Sierra Rose	RY20	medium size, very nice BOT, . . .	very nice, BOT, . . . mixed white and yellow flesh	4.4, . . .	4.4, 3.8, 3.6
TX14646-1WR/YPinto	RY20	spectacle, nice, . . .	yellow pinkish tint flesh, nice skin pattern, yellow pinkish tint flesh, healthy looking, yellow pinkish tint flesh	4, . . .	4, 4, 4
COTX04050s-1P/P	SM20	lenticles, . . .	extremely intense purple flesh, heat sprouts, skinning, DROP, very intense purple flesh, mixed of white and purple skin, skinning, very intense purple flesh, small	3.8, . . .	3.6, 3.5, 3.7
AORTX11913-3Wre	W/Y20	white skin, pink eye shadow, high tuber number, uniform size and shape, . . .	BOT, high tuber number, uniform shape, uniform size, high tuber number, .	4.2, . . .	4.4, 4.5, 4.3
ATTX07230-4Yre/Y	W/Y20	not uniform skin pattern, drop, . . .	dislike skin pattern, nice, .	3.2, . . .	3.7, 3.8, 3.8
COTX10012-1Wrdspl/Y	W/Y20	pink eyes, . . .	, small, heat sprouts, few tubers	3.6, . . .	3.6, 3.6, 3.6
COTX10118-4Wpe/Y	W/Y20	purple eyes, unique pattern, . . .	unique skin color combination, purple eyes and shadow, . . .	3.8, . . .	4, 3.8, 4.1
COTX10138-15Wpe/Y	W/Y20	high tuber number, small, late?, . . .	unique skin color combination, dark purple eyes and shadow, visible lenticels, mixed skin pattern some do not have purple eyes, road mapping, dark purple eyes,	4.2, . . .	3.8, 3.8, 3.7
NDTX081451CBs-1Y/Y	W/Y20	small-medium, smooth, . . .	medium-small, high tuber number, uniform size, uniform shape, . high tuber number	4.4, . . .	3.8, 3.6, 4
COTX04193s-2R/Y	RY20	small, high tuber number, uniform size and shape, . . .	smooth skin, intense skin color, nice, high tuber number, uniform size, uniform shape, nice, smooth skin	4.6, . . .	3.7, 3.8, 3.8
Chieftain	WR20	large, high tuber number, . . .	BOT, nice skin color, uniform shape, uniform size, a little flat, large tubers, .	4.2, . . .	4.5, 4.1, 4.5
Red LaSoda	WR20	large, deep eyes, . . .	high tuber number, nice skin color, nice, deep eyes, large, high tuber number, impressive high yield	4, . . .	4.4, 4.2, 4.5
Modoc	WR20	few tubers, . . .	very few tubers, intense skin, very few tubers,	2, . . .	2, 2,
A08112-7R	WR20	high tuber number, small, late?, . . .	very nice, small, uniform size, uniform shape, parent for small size and skin color, heat sprouts, some pointed, attached stolons, very nice skin color, high tuber number, intense skin color, nice skin color, high tuber number, intense skin color	3.8, . . .	4.6, 4.2, 4.3
ATX06264s-4R/Y	WR20	small, . . .	skin color, high tuber number, intense skin color	3.6, . . .	3.8, 4.1, 4
Yukon Gold	WR20	medium size, . . .	nice, . . .	3.7, . . .	4, 4, 3.8
CO10064-1W/Y	WR20	small, pink eyes, high tuber number, . . .	small, uniform size, . . .	3.8, . . .	3.7, 3.5, 3.8
CO10098-5W/Y	WR20	small, high tuber number, uniform size and shape, . . .	small, uniform size, high tuber number, heat sprouts, small, heat sprouts, uniform size, uniform shape,	4, . . .	3.8, 3.7, 3.6
CO11250-1W/Y	WR20	medium size, pink eyes, . . .	pink eyes, oval, heat sprouts, skin road mapping, netted skin	3.7, . . .	3.6, 3.6, 3.5
CO11266-1W/Y	WR20	small, high tuber number, pink eyes, . . .	some skin netting, light sprouts, some pointed, dislike skin, heat sprouts, high tuber number, several intact seed pieces, pink eyes	3.6, . . .	3.5, 3.5, 3.7
POR14PG22-3	WR20	very small tubers, few tubers, late?, . . . BOT for this class, intense red skin,	heat sprouts, very small, uniform size, flesh white and creamy mixed, high tuber number, very small, uniform size, uniform shape, mixed white and creamy flesh,	2, . . .	3.3, 3.7, 3.5
PORTX03PG25-2R/R	WR20	uniform size and shape, . . .	unique shape, oblong to fingerling, BOT, . . . hard to cut	4.2, . . .	4, 4, 3.8
Purple Majesty	RY20	BOT for this class, . . .	BOT, high tuber number, very intense skin color, purple marble, road mapping, dirty look, netted skin	4.4, . . .	4.4, 3.8, 0
Paroli	Hig20	BOT for yellow class, uniform size and shape, . . .	enlarged lenticels, dislike skin, . . . oval to oblong, enlarged lenticels, dislike skin,	4.6, . . .	3.7, 3.7, 4

## Texas Advanced Chip Selection Trial, Springlake

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

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

- ATTX07042-3W and TX09403-15W had a high general rating and best of trial designations.
- NDTX13280CB-3W, NDTX1246-5W/Y, AORTX09037-4W/Y, NDTX12203AB-1W, ATX13134-3W/Y, NDTX14362AB-1W, COTX13231-4W, NDTX1482YB-1W, NDTX13315CB-1W, and TX09403-21W had high general ratings (Table 3a and 3e).
- ATTX07042-3W had the highest total yield, while NDTX1244-3W/Y had the highest marketable yield. AORTX09037-4W/Y had the highest yield of less than 4 oz. tubers (Table 3a).
- TX09403-21W had the highest percentage of marketable yield. COTX12235-2W had the highest percentage of less than 4 oz. tubers (Table 3b).
- AORTX09037-1W/Y and AORTX09037-4W/Y had the highest average number of tubers per plant. AORTX09037-4W/Y, ATTX07042-3W, NDTX1244-3W/Y, ATX13134-3W/Y, ATTX10333-1W/Y, and NDTX1444-5W were the latest in maturity, while COTX13231-4W NDTX14362AB-1W NDTX13280CB-3W, COTX13231-1W, AORTX09037-5W/Y, NDTX13315CB-1W, TX12484-3WZC, TX09403-21W, and Atlantic were the earliest in maturity (Table 3c).
- ATTX10333-1W had the highest specific gravity (Table 3b).
- NDTX12203AB-1W, TX09403-15W, NDTX1482YB-1W, COTX13231-4W, AORTX09037-5W/Y, COTX12235-2W, TX09403-21W, and AORTX09033-11W had excellent chip quality ratings (Table 3f).

### Comments on entries:

- ATTX07042-3W      White Round      impressive high tuber number, very nice, BOT, FC=1.0, CR=2.8, Chip Notes: 40% Good chip
- NDTX1244-3W/Y      White Round      very high tuber number, medium-large, nice shape, nice skin, attached stolons, skinning, dark bruising, FC=1.6, CR=3.8, Chip Notes: 10% Good chip
- NDTX1246-5W/Y      White Round      impressive high tuber number, very good size for chippers, uniform size, uniform shape, some bruising, yellow flesh



- but not light, lighter tuber ring, FC=3.0, CR=2.0, Chip Notes: 60% Good chip, NICE
- AORTX09037-4W/Y White Round road map, uniform size, uniform shape, dislike skin, FC=1.5, CR=3.5, Chip Notes: 30% Good chip
- AORTX09037-1W/Y White Compressed very high tuber number, uniform size, uniform shape, FC=2.0, CR=2.0, Chip Notes: 56% Good chip
- ATX13134-3W/Y White Round FC=2.6, CR=2.5, Chip Notes: 40% Good chip
- NDTX14362AB-1W White Round FC=1.0, CR=1.8, Chip Notes: 80% Good chip, NICE
- NDTX12203AB-1W White Round medium-large, FC=1.0, CR=1.0, Chip Notes: 100% Good chip, BOT
- COTX13231-4W White Round high tuber number, some large, FC=1.0, CR=1.2, Chip Notes: 89% Good chip
- NDTX13280CB-3W White Round BOT, nice shape, medium-large for a chipper, FC=1.0, CR=1.8, Chip Notes: 33% Good chip
- TX09403-15W White Round high tuber number, uniform size, uniform shape, FC=1.0, CR=1.0, Chip Notes: 100% Good chip, BOT
- COTX13231-1W White Compressed medium-large, some knobs, FC=1.0, CR=1.8, Chip Notes: 80% Good chip, NICE
- ATTX10333-1W/Y White Round skinning, bruising, enlarged lenticels, FC=2.5, CR=2.5, Chip Notes: 70% Good chip
- COTX13230-1W White Round FC=1.0, CR=2.0, Chip Notes: 40% Good chip
- NDTX1444-5W White Round high tuber number, it could be a small, uniform size, smooth skin, FC=1.0, CR=1.8, Chip Notes: 67% Good chip
- NDTX1482YB-1W White Round enlarged lenticels, road map, ugly skin, very light-yellow skin, FC=1.0, CR=1.0, Chip Notes: 100% Good chip, BOT
- AORTX09037-5W/Y White Round very smooth skin, FC=1.2, CR=1.2, Chip Notes: 80% Good chip
- NDTX13315CB-1W White Round enlarged lenticels, FC=1.0, CR=3.0, Chip Notes: 10% Good chip
- TX12484-3WZC White Round enlarged lenticels, FC=1.0, CR=1.8, Chip Notes: 40% Good chip
- NDTX113030C-3W White Round FC=1.0, CR=1.8, Chip Notes: 60% Good chip

- NDTX12135-1W White Round mixed white and yellow flesh, FC=1.0, CR=2.2, Chip Notes: 25% Good chip
- COTX12235-2W White Compressed bruising, uniform size, uniform shape, FC=1.0, CR=1.2, Chip Notes: 90% Good chip, NICE
- TX09403-21W White Round nice, FC=1.0, CR=1.2, Chip Notes: 90% Good chip, NICE
- NDTX1432Y-2Y/Y White Round yellow, FC=3.5, CR=4.0, Chip Notes: 10% Good chip
- Atlantic White Round FC=1.5, CR=2.0, Chip Notes: 67% Good chip
- AORTX09033-11W White Round some dark bruising, mixed flesh, FC=1.0, CR=1.2, Chip Notes: 90 % Good chip, NICE
- TX12484-2WZC White Round enlarged lenticels, pinkish, FC=1.0, CR=1.8, Chip Notes: 70% Good chip

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

<sup>1</sup>CR=chip quality rating 1=light to 6= dark

Summary:

TX09403-15W was the best entry overall.

Disposition: [See Appendix C.](#)

Springlake  
Table 3a.

Total yield, total yield of U.S. No.1, over 18 oz, under 4 oz and culls/No.2 potatoes and general rating of 27 entries in the Advanced Texas chip selection trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Total Yield cwt/a	U.S. No. 1 cwt/a			Over 18 oz cwt/a	Under 4 oz. cwt/a	Culls/ No.2 cwt/a	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
ATTX07042-3W	SW20	405.5	299.0	164.6	129.6	4.8	0.0	103.0	3.5	4.5
NDTX1244-3W/Y	TXCH20	391.7	326.7	197.1	129.6	0.0	0.0	62.9	2.1	3.8
NDTX1246-5W/Y	TXCH20	385.5	286.6	188.4	98.2	0.0	0.0	94.7	4.1	4.2
AORTX09037-4W/Y	TXCH20	369.6	238.5	218.8	19.7	0.0	0.0	119.3	11.8	4.2
AORTX09037-1W/Y	SW20	358.9	222.6	164.6	58.1	0.0	0.0	136.2	0.0	3.8
ATX13134-3W/Y	TXCH20	350.9	245.8	190.8	55.0	0.0	0.0	105.1	0.0	4.0
NDTX14362AB-1W	TXCH20	315.3	252.4	119.6	123.8	9.0	0.0	56.4	6.6	4.0
NDTX12203AB-1W	TXCH20	314.9	223.7	121.0	102.7	0.0	0.0	85.7	5.5	4.2
COTX13231-4W	TXCH20	305.6	243.4	150.4	84.4	8.6	0.0	58.8	3.5	4.0
NDTX13280CB-3W	TXCH20	295.9	255.1	108.9	146.2	0.0	0.0	34.6	6.2	4.4
TX09403-15W	WR20	292.5	259.6	97.8	156.6	5.2	0.0	29.4	3.5	4.5
COTX13231-1W	TXCH20	281.8	199.5	174.6	24.9	0.0	0.0	79.9	2.4	3.8
ATTX10333-1W/Y	TXCH20	266.5	195.7	116.2	79.5	0.0	0.0	50.1	20.7	3.6
COTX13230-1W	TXCH20	238.2	185.0	142.1	42.9	0.0	0.0	39.8	13.5	3.6
NDTX1444-5W	TXCH20	236.5	194.6	104.8	84.0	5.9	0.0	30.8	11.1	3.8
NDTX1482YB-1W	TXCH20	233.4	103.4	103.4	0.0	0.0	0.0	127.6	2.4	4.0
AORTX09037-5W/Y	TXCH20	227.1	122.0	100.9	21.1	0.0	0.0	101.6	3.5	3.6
NDTX13315CB-1W	TXCH20	220.6	178.4	117.2	61.2	0.0	0.0	33.9	8.3	4.0
TX12484-3WZC	TXCH20	208.8	142.4	106.1	36.3	0.0	0.0	66.4	0.0	3.5
NDTX113030C-3W	TXCH20	195.7	144.2	83.0	61.2	0.0	0.0	46.0	5.5	3.6
NDTX12135-1W	TXCH20	193.9	133.4	85.7	47.7	0.0	0.0	52.2	8.3	3.5
COTX12235-2W	TXCH20	189.8	80.2	80.2	0.0	0.0	0.0	109.6	0.0	3.7
TX09403-21W	SW20	189.8	172.5	88.2	84.4	0.0	0.0	17.3	0.0	4.0
NDTX1432Y-2Y/Y	TXCH20	179.8	137.6	85.7	51.9	0.0	0.0	40.1	2.1	3.6
Atlantic	1.0	168.4	98.9	41.8	47.0	10.0	0.0	69.5	0.0	3.8
AORTX09033-11W	TXCH20	160.8	132.4	91.6	40.8	0.0	0.0	16.6	11.8	3.7
TX12484-2WZC	TXCH20	142.4	117.2	58.1	59.1	0.0	0.0	25.2	0.0	3.4
Average		263.7	192.3	122.3	68.4	1.6	0.0	66.4	5.0	3.9
L.S.D. (.05)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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Table 3b.

Percent by weight of U.S. No. 1, over 18 oz, under 4 oz, culls/No.2 potatoes, specific gravity, tuber type and skin type of 27 entries in the Advanced Texas chip selection trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
ATX07042-3W	SW20	73.7	40.6	32.0	1.2	0.0	25.4	0.9	1.070	15.0	White	Round
NDTX1244-3W/Y	TXCH20	83.4	50.3	33.1	0.0	0.0	16.1	0.5	1.075	15.9	White	Round
NDTX1246-5W/Y	TXCH20	74.3	48.9	25.5	0.0	0.0	24.6	1.1	1.070	15.1	White	Round
AORTX09037-4W/Y	TXCH20	64.5	59.2	5.3	0.0	0.0	32.3	3.2	1.076	16.1	White	Round
AORTX09037-1W/Y	SW20	62.0	45.9	16.2	0.0	0.0	38.0	0.0	1.064	13.9	White	Compressed
ATX13134-3W/Y	TXCH20	70.0	54.4	15.7	0.0	0.0	30.0	0.0	1.080	16.7	White	Round
NDTX14362AB-1W	TXCH20	80.0	37.9	39.3	2.9	0.0	17.9	2.1	1.072	15.4	White	Round
NDTX12203AB-1W	TXCH20	71.0	38.4	32.6	0.0	0.0	27.2	1.8	1.077	16.3	White	Round
COTX13231-4W	TXCH20	79.6	49.2	27.6	2.8	0.0	19.2	1.1	1.071	15.2	White	Round
NDTX13280CB-3W	TXCH20	86.2	36.8	49.4	0.0	0.0	11.7	2.1	1.068	14.6	White	Round
TX09403-15W	WR20	88.8	33.5	53.5	1.8	0.0	10.0	1.2	1.064	13.9	White	Round
COTX13231-1W	TXCH20	70.8	62.0	8.8	0.0	0.0	28.3	0.9	1.073	15.6	White	Compressed
ATX10333-1W/Y	TXCH20	73.4	43.6	29.8	0.0	0.0	18.8	7.8	1.091	18.8	White	Round
COTX13230-1W	TXCH20	77.6	59.7	18.0	0.0	0.0	16.7	5.7	1.073	15.5	White	Round
NDTX1444-5W	TXCH20	82.3	44.3	35.5	2.5	0.0	13.0	4.7	1.073	15.5	White	Round
NDTX1482YB-1W	TXCH20	44.3	44.3	0.0	0.0	0.0	54.7	1.0	1.079	16.6	White	Round
AORTX09037-5W/Y	TXCH20	53.7	44.4	9.3	0.0	0.0	44.7	1.5	1.067	14.5	White	Round
NDTX13315CB-1W	TXCH20	80.9	53.1	27.7	0.0	0.0	15.4	3.8	1.065	14.1	White	Round
TX12484-3WZC	TXCH20	68.2	50.8	17.4	0.0	0.0	31.8	0.0	1.065	14.2	White	Round
NDTX113030C-3W	TXCH20	73.7	42.4	31.3	0.0	0.0	23.5	2.8	1.078	16.5	White	Round
NDTX12135-1W	TXCH20	68.8	44.2	24.6	0.0	0.0	26.9	4.3	1.068	14.6	White	Round
COTX12235-2W	TXCH20	42.3	42.3	0.0	0.0	0.0	57.7	0.0	1.077	16.2	White	Compressed
TX09403-21W	SW20	90.9	46.4	44.4	0.0	0.0	9.1	0.0	1.065	14.0	White	Round
NDTX1432Y-2Y/Y	TXCH20	76.5	47.7	28.8	0.0	0.0	22.3	1.2	1.063	13.8	White	Round
Atlantic	1.0	58.7	24.8	27.9	6.0	0.0	41.3	0.0	1.068	14.6	White	Round
AORTX09033-11W	TXCH20	82.4	57.0	25.4	0.0	0.0	10.3	7.3	1.075	16.0	White	Round
TX12484-2WZC	TXCH20	82.3	40.8	41.5	0.0	0.0	17.7	0.0	1.064	14.0	White	Round
Average		72.6	46.0	26.0	0.6	0.0	25.4	2.0	1.072	15.3		
L.S.D. (.05)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.0		

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Table 3c.

Average number of tubers and stems per plant, tuber weight, percent stand 40 and 60 days after planting, plant characteristics, percent dead vine at vine kill, length/with, and with/thickness, length cm, with cm, and thickness cm of 37 entries in the Advanced Texas chip selection trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines	Length/ With	With/ Thickness	Length cm	With cm	Thickness cm
						Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>						
ATTX07042-3W	SW20	12.5	2.7	100	100	1.5	3.6	4.1	3.7	15	1.05	1.09	6.1	5.8	5.3
NDTX1244-3W/Y	TXCH20	10.5	3.3	93	93	2.0	4.0	4.3	4.0	10	1.21	1.04	7.0	5.8	5.6
NDTX1246-5W/Y	TXCH20	11.3	2.8	100	100	2.0	4.0	3.7	4.0	25	1.15	1.11	6.0	5.2	4.7
AORTX09037-4W/Y	TXCH20	13.6	2.3	100	100	2.0	3.9	4.5	3.8	5	1.02	1.08	5.7	5.6	5.2
AORTX09037-1W/Y	SW20	14.1	2.1	100	100	2.5	4.0	3.7	4.0	25	0.97	1.47	6.1	6.3	4.3
ATX13134-3W/Y	TXCH20	11.7	2.5	100	100	2.0	4.0	4.1	3.8	20	1.06	1.18	5.5	5.2	4.4
NDTX14362AB-1W	TXCH20	7.8	3.3	100	100	2.5	3.9	3.5	4.0	25	1.11	1.17	6.2	5.6	4.8
NDTX12203AB-1W	TXCH20	8.5	3.0	100	100	2.5	4.0	3.6	4.0	20	1.07	1.20	6.4	6.0	5.0
COTX13231-4W	TXCH20	8.1	3.1	100	100	2.0	3.7	3.3	3.8	35	1.10	1.14	6.4	5.8	5.1
NDTX13280CB-3W	TXCH20	6.4	3.8	100	100	1.5	3.7	3.5	3.6	35	1.19	1.13	7.0	5.9	5.2
TX09403-15W	WR20	6.0	4.0	100	100	1.5	3.5	3.7	3.6	20	1.06	1.10	6.8	6.4	5.8
COTX13231-1W	TXCH20	9.1	2.5	100	100	1.5	3.5	3.5	3.5	35	0.95	1.33	5.8	6.1	4.6
ATTX10333-1W/Y	TXCH20	6.4	3.4	100	100	2.5	3.8	4.2	3.8	10	1.10	1.11	6.6	6.0	5.4
COTX13230-1W	TXCH20	7.1	2.8	93	100	2.0	3.9	3.9	3.8	20	1.09	1.00	6.1	5.6	5.6
NDTX1444-5W	TXCH20	6.0	3.3	93	100	1.5	3.8	4.2	3.9	10	1.14	1.06	6.4	5.6	5.3
NDTX1482YB-1W	TXCH20	12.8	1.6	86	93	2.0	3.9	3.8	4.0	20	1.08	1.18	6.4	5.9	5.0
AORTX09037-5W/Y	TXCH20	7.8	2.4	100	100	2.0	3.5	3.5	3.6	30	1.14	1.19	6.4	5.6	4.7
NDTX13315CB-1W	TXCH20	5.5	3.3	100	100	1.5	3.7	3.5	3.8	35	1.05	1.14	6.8	6.5	5.7
TX12484-3WZC	TXCH20	6.5	2.7	100	100	2.0	3.7	3.3	3.8	35	1.15	1.19	7.1	6.2	5.2
NDTX113030C-3W	TXCH20	6.0	2.9	93	93	2.0	3.5	3.9	3.7	10	1.00	1.15	6.0	6.0	5.2
NDTX12135-1W	TXCH20	6.6	2.4	100	100	1.5	3.7	3.7	3.6	20	1.08	1.07	6.6	6.1	5.7
COTX12235-2W	TXCH20	9.7	1.6	100	100	2.0	3.7	3.8	3.7	20	0.98	1.19	5.5	5.6	4.7
TX09403-21W	SW20	4.1	3.9	100	100	1.5	3.3	3.5	3.4	30	1.06	1.15	6.7	6.3	5.5
NDTX1432Y-2Y/Y	TXCH20	6.3	2.8	86	86	1.5	3.3	3.9	3.4	15	1.02	1.15	5.5	5.4	4.7
Atlantic	1.0	3.5	4.0	96	100	1.5	2.8	3.5	3.0	30	1.15	1.31	8.3	7.2	5.5
AORTX09033-11W	TXCH20	4.4	3.0	100	100	2.0	3.3	3.8	3.3	25	1.19	1.15	6.3	5.3	4.6
TX12484-2WZC	TXCH20	3.6	3.3	100	100	1.5	3.5	3.9	3.6	20	1.12	1.18	6.6	5.9	5.0
Average		8.0	2.9	98	99	1.9	3.7	3.8	3.7	22	1.08	1.16	6.4	5.9	5.1
L.S.D. (.05)		0.0	0.0	0	0	0.0	0.0	0.0	0.0	0	0.00	0.00	0.0	0.0	0.0

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

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

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

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

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Table 3d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 37 entries in the Advanced Texas chip selection trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	<sup>10</sup>	ning <sup>1</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>11</sup>	Percent Internal Brownspot
ATTX07042-3W	SW20	1.0	1.0	1.2	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX1244-3W/Y	TXCH20	1.6	1.0	1.0	4.0	1.0	5.0	5.0	5.0	4.8	3.5	4.8	0	0	0	0
NDTX1246-5W/Y	TXCH20	3.0	1.0	1.5	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09037-4W/Y	TXCH20	1.5	1.0	1.0	4.0	1.0	5.0	5.0	5.0	4.2	5.0	5.0	0	0	0	0
AORTX09037-1W/Y	SW20	2.0	1.0	1.2	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATX13134-3W/Y	TXCH20	2.6	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX14362AB-1W	TXCH20	1.0	1.0	1.0	3.8	1.0	5.0	5.0	5.0	5.0	4.0	5.0	0	0	10	0
NDTX12203AB-1W	TXCH20	1.0	1.0	1.0	4.0	1.0	4.8	5.0	5.0	4.8	5.0	5.0	0	0	0	0
COTX13231-4W	TXCH20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX13280CB-3W	TXCH20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	4.8	5.0	5.0	10	0	0	0
TX09403-15W	WR20	1.0	1.0	1.2	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX13231-1W	TXCH20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	4.8	3.5	4.8	0	0	0	10
ATTX10333-1W/Y	TXCH20	2.5	1.0	1.0	4.0	1.0	5.0	5.0	5.0	4.0	5.0	5.0	0	0	0	0
COTX13230-1W	TXCH20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	4.5	3.5	5.0	0	0	0	0
NDTX1444-5W	TXCH20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	4.6	5.0	4.8	0	0	20	0
NDTX1482YB-1W	TXCH20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09037-5W/Y	TXCH20	1.2	1.0	1.2	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	10
NDTX13315CB-1W	TXCH20	1.0	1.2	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX12484-3WZC	TXCH20	1.0	1.2	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113030C-3W	TXCH20	1.0	1.6	1.5	4.0	1.0	5.0	5.0	5.0	4.8	5.0	5.0	0	0	10	0
NDTX12135-1W	TXCH20	1.0	1.4	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX12235-2W	TXCH20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	3.6	5.0	0	0	0	0
TX09403-21W	SW20	1.0	1.0	1.2	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX1432Y-2Y/Y	TXCH20	3.5	1.0	1.0	3.8	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Atlantic	1.0	1.5	1.8	1.5	3.8	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	30
AORTX09033-11W	TXCH20	1.0	1.0	1.0	3.8	1.0	4.0	5.0	5.0	5.0	5.0	5.0	0	0	10	0
TX12484-2WZC	TXCH20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	20	0
Average		1.4	1.1	1.1	4.0	1.0	5.0	5.0	5.0	4.9	4.7	5.0	0.4	0	3	2
L.S.D. (.05)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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

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

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

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

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

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

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

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

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

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

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Table 3e. Notes and general rating for all reps of 27 entries in the Advanced Texas chip selection trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Notes Grading	General Rating Grading
ATTX07042-3W	SW20	BOT, impressive high tuber number, very nice, ,	4.5, ,
NDTX1244-3W/Y	TXCH20	very high tuber number, medium-large, nice shape, nice skin, attached stolons, skinning, dark bruising, ,	3.8, ,
NDTX1246-5W/Y	TXCH20	very high tuber number, good skin, thin russet, move to yellows? , ,	4.2, ,
AORTX09037-4W/Y	TXCH20	impressive high tuber number, very good size for chippers, uniform size, uniform shape, some bruising, yellow flesh but not light, lighter tuber ring, ,	4.2, ,
AORTX09037-1W/Y	SW20	road map, uniform size, uniform shape, dislike skin, ,	3.8, ,
ATX13134-3W/Y	TXCH20	very high tuber number, uniform size, uniform shape, ,	4, ,
NDTX14362AB-1W	TXCH20	, ,	4, ,
NDTX12203AB-1W	TXCH20	, ,	4.2, ,
COTX13231-4W	TXCH20	medium-large, ,	4, ,
NDTX13280CB-3W	TXCH20	high tuber number, some large, ,	4.4, ,
TX09403-15W	WR20	BOT, nice shape, medium-large for a chipper, ,	4.5, ,
COTX13231-1W	TXCH20	high tuber number, uniform size, uniform shape, ,	3.8, ,
ATTX10333-1W/Y	TXCH20	medium-large, some knobs, ,	3.6, ,
COTX13230-1W	TXCH20	skinning, bruising, enlarged lenticels, ,	3.6, ,
NDTX1444-5W	TXCH20	, ,	3.8, ,
NDTX1482YB-1W	TXCH20	high tuber number, it could be a small, uniform size, smooth skin, SMALL?, ,	4, ,
AORTX09037-5W/Y	TXCH20	enlarged lenticels, road map, ugly skin, very light yellow skin, ,	3.6, ,
NDTX13315CB-1W	TXCH20	very smooth skin, ,	4, ,
TX12484-3WZC	TXCH20	enlarged lenticels, ,	3.5, ,
NDTX113030C-3W	TXCH20	, ,	3.6, ,
NDTX12135-1W	TXCH20	mixed white and yellow flesh, ,	3.5, ,
COTX12235-2W	TXCH20	bruising, uniform size, uniform shape, ,	3.7, ,
TX09403-21W	SW20	nice , ,	4, ,
NDTX1432Y-2Y/Y	TXCH20	yellow, ,	3.6, ,
Atlantic	1.000	, ,	3.8, ,
AORTX09033-11W	TXCH20	some dark bruising, mixed flesh, ,	3.7, ,
TX12484-2WZC	TXCH20	enlarged lenticels, pinkish	3.4

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Table 3f.

Specific gravity, percent solids, chip color rating, good chip, bad chip, percentage vascular discoloration, bruise, stem end discoloration, apical bruise notes, percentage of Zebra Defect at chipping, and percentage Zebra Defect at grading of 27 entries in the Advanced Texas chip selection trial grown near Springlake, Texas-2020.

Clone name/ID	Trial	Gravity	% Solids	Chip		% Good Chip	% Bad Chip	% Vas	% Bruise	% Stem	% Apical Bruise	Notes <sup>3</sup>
				Quaty Rating <sup>1</sup>	Chip Color <sup>2</sup>							
ATTX07042-3W	SW20	1.070	15.0	2.8	3.0	40	60	20	0	40	0	
NDTX1244-3W/Y	TXCH20	1.075	15.9	3.8	3.0	10	90	50	0	40	0	
NDTX1246-5W/Y	TXCH20	1.070	15.1	2.0	3.0	60	40	0	10	30	0	NICE
AORTX09037-4W/Y	TXCH20	1.076	16.1	3.5	1.0	30	70	60	0	0	0	
AORTX09037-1W/Y	SW20	1.064	13.9	2.0	3.0	56	44	0	0	44	0	
ATX13134-3W/Y	TXCH20	1.080	16.7	2.5	3.0	40	60	20	0	40	0	
NDTX14362AB-1W	TXCH20	1.072	15.4	1.8	1.0	80	20	0	0	20	0	NICE
NDTX12203AB-1W	TXCH20	1.077	16.3	1.0	1.0	100	0	0	0	0	0	BOT
COTX13231-4W	TXCH20	1.071	15.2	1.2	1.0	89	11	0	11	0	0	
NDTX13280CB-3W	TXCH20	1.068	14.6	1.8	1.5	33	67	0	0	67	0	
TX09403-15W	WR20	1.064	13.9	1.0	1.0	100	0	0	0	0	0	BOT
COTX13231-1W	TXCH20	1.073	15.6	1.8	1.0	80	20	20	0	0	0	NICE
ATTX10333-1W/Y	TXCH20	1.091	18.8	2.5	3.0	70	30	30	0	0	0	
COTX13230-1W	TXCH20	1.073	15.5	2.0	1.2	40	60	20	0	40	0	
NDTX1444-5W	TXCH20	1.073	15.5	1.8	1.0	67	33	0	0	11	0	
NDTX1482YB-1W	TXCH20	1.079	16.6	1.0	1.0	100	0	0	0	0	0	BOT
AORTX09037-5W/Y	TXCH20	1.067	14.5	1.2	2.0	80	20	0	0	20	0	
NDTX13315CB-1W	TXCH20	1.065	14.1	3.0	2.0	10	90	60	20	10	0	
TX12484-3WZC	TXCH20	1.065	14.2	1.8	1.0	40	60	0	10	50	0	
NDTX113030C-3W	TXCH20	1.078	16.5	1.8	1.2	60	40	0	0	40	0	
NDTX12135-1W	TXCH20	1.068	14.6	2.2	2.0	25	75	50	13	13	0	
COTX12235-2W	TXCH20	1.077	16.2	1.2	1.0	90	10	0	10	0	0	NICE
TX09403-21W	SW20	1.065	14.0	1.2	1.0	90	10	0	0	10	0	NICE
NDTX1432Y-2Y/Y	TXCH20	1.063	13.8	4.0	3.0	10	90	70	0	10	0	
Atlantic	1.0	1.068	14.6	2.0	1.0	67	33	17	17	0	0	
AORTX09033-11W	TXCH20	1.075	16.0	1.2	1.0	90	10	10	0	0	0	NICE
TX12484-2WZC	TXCH20	1.064	14.0	1.8	1.0	70	30	0	0	30	0	
Average		1.072	15.3	2.0	1.7	60	40	16	3	19	0	
L.S.D. (.05)		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

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

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

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

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



## 2020 Dalhart Trials

### Summary of growing conditions:

The trials were planted 10 miles Southwest of Dalhart (35°58'15.31"N, 102°44'36.33"W) in a CSS Farms production field from May 9<sup>th</sup> to 11<sup>th</sup> and harvested from September 2<sup>nd</sup> and 3<sup>rd</sup>. Standard cultural practices for the area were used (Table 3).

### Trials conducted:

- National Chip
- Western, Southwestern Regional, and Texas Advanced Selection Chip
- Western, Southwestern Regional, and Texas Advanced Selection Russet
- Western Regional and Texas Advanced Selection Red Specialty
- 2020 4Hill Chip Selection
- 2020 4Hill Russet Selection
- 2020 4Hill Red Selection
- 2020 4Hill Red/Yellow Flesh Selection
- 2020 4Hill White/Yellow Flesh Selection
- 2020 4Hill Small Potato Selection
- 2020 4Hill Fingerling Potato Selection
- 2020 4Hill Purple Potato Selection
- Breeding Clone Bank

Table 3. Environmental and cultural inputs for the 2020 Dalhart Trials.

Location:			
	Dalhart, Texas		
Soil Type			
	Dallum Fine Sand Loam		
Seed Source			
	Colorado, Oregon, Texas, and Idaho		
Date:			
	Planted	May 9, 2020	DAP
	Vines Killed (Red, Chip)	August 17, 2020	100
	Vines Killed (Russet)	August 17, 2020	100
	Harvested (Nat Chip Trial, Chip)	September 2, 2020	116
	Harvested (Red and Red/White Yellow Flesh)	September 3, 2020	117
	Harvested (Russet)	September 3, 2020	117
Plot Information:			
	Size of Plots	18' 9.6"	
	Spacing Between Hills	10.2"	
	Spacing Between Rows	28"	
	Hills Per Plot	24	
	Number of Rows Per Plot	2	
	Number of Reps	3	
Method of Harvest:			
	Four-row drag digger with hand pick up		
Fertilizer:			
	Application:	119-122-258 # per acre	
Irrigation:			
	Center Pivot		
Seed Treatment			
	Cruiser Maxx Vibrance		
Insecticide:			
	Movento, Beleaf 50 SG, Reaper ClearForm, Fulfill		
Herbicides Applied:			
	Eptam 7E, Reglone, Tricor 4F, Mad Dog K6, Trifluralin 4 EC		
Fungicide Applied:			
	Manzate Max, Echo 720		
Environmental Factors:			
	These plots received higher than normal precipitation in June and July. Precipitation totaled 11.2". An additional 35" of irrigation was applied.		

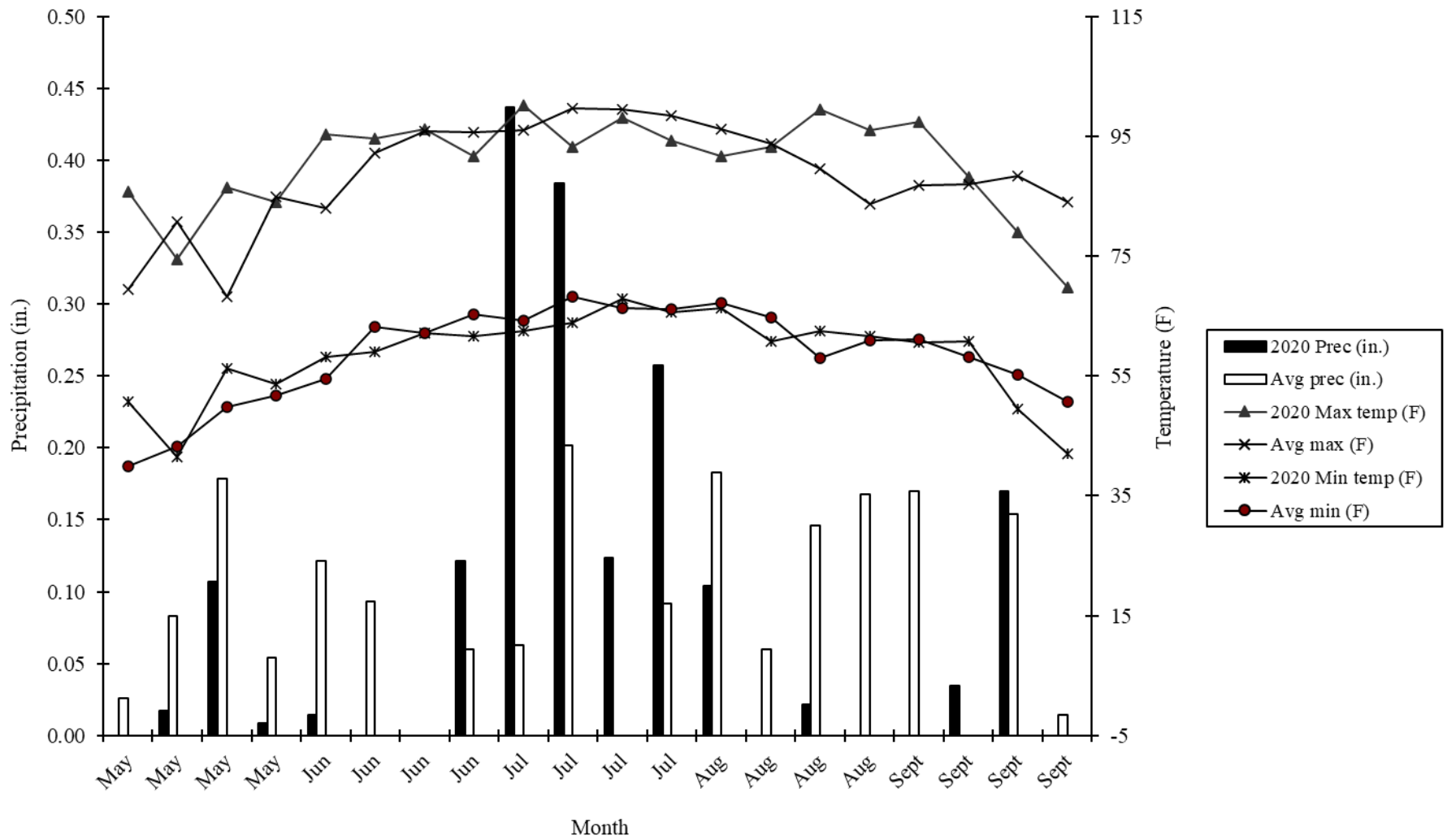


Figure 4. Weekly minimum/maximum temperatures and precipitation for the 2020-growing season near Dalhart, Texas compared to the average minimum/maximum temperatures and precipitation (1949-2020).

## Western, Southwestern Regional, and Texas Advanced Selection Chip Trial, Dalhart

This trial consisted of fifty-seven entries, including the check varieties Atlantic and Snowden.

Results: (Dalhart Tables 1a, 1b, 1c, 1d, 1e, 1f, and 1g)

- TX17846-1W, NDTX14247CAB-2W, NDTX14247CAB-1W, TX09403-21W, ATTX07042-3W/Y, NDTX1482YB-1W, and NDTX14362AB-1W had high general ratings and best of trial designations for tuber appearance. MSZ242-13, ATX13134-3W/Y, NDTX14252B-2W, COTX16013-5W, AORTX09037-5W/Y, Mackinaw, Atlantic PUSA, NDTX14263BC-3W, Snowden, CO12293-1W, Winterset, CO10073-7W, TX12484-3WZC, CO11023-9W, Snowden PUSA, MSZ063-2, CO12235-3W, and NDTX1444-5W had high general ratings for tuber appearance (Table 1a and 1e).
- NDTX14247CAB-2W had the highest total and marketable yield, while Mackinaw had the highest yield of 4-6 oz. tubers. TX17734-2W/Y had the highest yield of less than 4 oz. tubers (Table 1a).
- Atlantic had the highest yield of over 10 oz. tubers (Table 1a).
- Atlantic, CO12293-1W, Snowden, and TX09403-21W had the highest percentage of marketable yield (Table 1b).
- TX17734-2W/Y had the highest percentage of less than 4 oz. tubers (Table 1b).
- ATTX10333-1W/Y, Winterset, MSZ242-13, B2869-29, Mackinaw, NDTX113030C-3W, ATX13134-3W/Y, Atlantic, Atlantic PUSA, CO12235-3W, Petoskey, and MSZ063-2 had the highest specific gravity (Table 1b).
- NDTX1482YB-1W and NDTX14252B-2W had the highest average number of tubers per plant (Table 1c).
- NDTX13280CB-3W, NDTX13315CB-1W, NDTX12203AB-1W, TX09403-15W, COTX16054-1Ru, and NDTX14362AB-1W were the earliest in maturity, while all other entries were late in maturity (Table 1c).
- Atlantic, Snowden, Atlantic PUSA, NDTX14252B-2W, and NDTX1244-3W/Y had the highest percentage of hollow heart, while Atlantic, Atlantic PUSA, TX09403-21W, Snowden PUSA, Snowden, and CO10073-7W had the highest percent of internal brown spot (Table 1d).
- NDTX14362AB-1W, COTX12235-2W, COTX16054-1Ru, NDTX1246-5W/Y, CO11023-9W, CO10073-7W, and TX17846-1W had the highest chip quality ratings (Table 1f).
- CO11023-9W, COTX16013-5W, COTX12235-2W, CO10073-7W, CO12235-3W, NDTX14263BC-3W, and NDTX1444-5W had the best chipping quality out of storage. After two weeks of

reconditioning, Atlantic, TX12484-3WZC, TX09403-15W, COTX13231-1W, COTX12235-2W, NDTX14362AB-1W, AORTX09037-1W/Y, TX12484-2WZC, TX17846-1W, MSZ242-13, AOR12197-4, NDTX1482YB-1W, and Winterset, had the best chipping quality score and the highest percentage of good chips (Table 1g).

Comments on entries:

- NDTX14247CAB-2W Round White impressive high tuber number, BOT++, FC=1.0, CR=3.2, Chip Notes: 23% Good chip
- AORTX09037-5W/Y Compressed White deep bud end, nice, high tuber number, buff skin, FC=2.5, CR=2.3, Chip Notes: 55% Good chip
- Snowden Compressed White deep bud end, high tuber number, internals, FC=1.0, CR=3.2, Chip Notes: 37% Good chip
- Atlantic PUSA Compressed Buff FC=1.2, CR=3.9, Chip Notes: 13% Good chip
- Snowden PUSA Round White FC=1.0, CR=3.8, Chip Notes: 3% Good chip
- NDTX14247CAB-1W Round White very nice+, BOT, FC=1.0, CR=2.6, Chip Notes: 55% Good chip
- Mackinaw Round White uniform size and shape, deep bud end, larger tubers are a little flat, creamy flesh, FC=1.1, CR=3.4, Chip Notes: 13% Good chip
- ATX13134-3W/Y Round White various sizes, yellow flesh, FC=3.0, CR=2.3, Chip Notes: 45% Good chip
- MSZ063-2 Round White nice skin, good size, deep bud end, compressed, FC=1.0, CR=3.3, Chip Notes: 20% Good chip
- NDTX14252B-2W Round White high tuber number, small, uniform size and shape, internals, DROP, FC=1.0, CR=3.8, Chip Notes: 17% Good chip
- TX17846-1W Round White very uniform size and shape, smooth skin, very nice, high tuber number, tissue culture, advance, few eyes, impressive, beautiful skin, BOT+, FC=1.0, CR=2.0, Chip Notes: 64% Good chip
- AORTX09037-1W/Y Round White high tuber number, FC=2.6, CR=3.1, Chip Notes: 32% Good chip
- MSZ242-13 Round White buff skin, FC=1.0, CR= 3.3, Chip Notes: 24% Good chip

- TX09403-21W      Compressed White      large, very round, parent for shape, parent for high yield, BOT, FC=1.0, CR=2.3, Chip Notes: 50% Good chip
- ATTX07042-3W/Y      Round White      very nice, smooth skin, high tuber number, yellow flesh, BOT, FC=2.9, CR=3.2, Chip Notes: 11% Good chip
- NDTX1482YB-1W      Round White      small, golf balls, uniform size and shape, high tuber number, nice, BOT, FC=1.0, CR=2.3, Chip Notes: 55% Good chip
- TX17734-2W/Y      Round White      very high tuber number, not a chipper, possibly small yellow, mixed flesh (some white, some yellow), tear drops, DROP, FC=2.6, CR=3.7, Chip Notes: 3% Good chip
- B2869-29      Round White      deep bud end+, some compressed tubers, FC=1.0, CR=3.7, Chip Notes: 10% Good chip
- CO12293-1W      Round White      bruised, FC=1.0, CR=2.7, Chip Notes: 30% Good chip
- MSW474-1      Compressed White      deep bud end++, compressed++, buff skin, prominent shoulders+, FC=1.0, CR=2.4, Chip Notes: 30% Good chip
- COTX16013-5W      Round White      very nice, some compressed, FC=1.0, CR=3.0, Chip Notes: 22% Good chip
- Winterset      Round White      very smooth skin, high tuber number, FC=1.2, CR=2.2, Chip Notes: 51% Good chip
- Atlantic      Round Buff      larger tubers are oval to oblong, FC=1.2, CR=3.3, Chip Notes: 21% Good chip
- NDTX1444-5W      Round White      bruised skin, FC=1.0, CR=2.6, Chip Notes: 27% Good chip
- CO10073-7W      Round White      very nice, high tuber number, uniform size and shape, FC=1.0, CR=1.9, Chip Notes: 54% Good chip
- AORTX09037-4W/Y      Round White      non-uniform yellow flesh, washed out yellow flesh DROP, FC=2.5, CR=3.3, Chip Notes: 33% Good chip
- NDTX1244-3W/Y      Round White      angular, high tuber number, nice, FC=3.0, CR=2.3, Chip Notes: 31% Good chip
- AOR12197-4      Compressed White      FC=2.7, CR=3.8, Chip Notes: 13% Good chip
- CO12235-3W      Round White      FC=1.2, CR=2.6, Chip Notes: 50% Good chip

- NDTX14263BC-3W Round White high tuber number nice++, uniform size and shape+, small+, internals, DROP, FC=1.0, CR=2.4, Chip Notes: 48% Good chip
- TX12484-3WZC Round White very nice, confirm ZC tolerance, consider releasing as germplasm, produce clean seed, send to Colorado, FC=1.0, CR=2.1, Chip Notes: 40% Good chip
- NDTX113030C-3W Compressed White very white flesh, oval, FC=1.0, CR=2.6, Chip Notes: 47% Good chip
- Petoskey Compressed White russet, nice, deep bud end, compressed, buff skin, a little flat, FC=1.0, CR=3.4, Chip Notes: 0% Good chip
- NDTX1246-5W/Y Round White FC=3.2, CR=1.8, Chip Notes: 77% Good chip
- COTX16054-1Ru Round Russet buff, not russet, FC=1.0, CR=1.7, Chip Notes: 55% Good chip
- ATTX10333-1W/Y Round White FC=3.0, CR=3.0, Chip Notes: 55% Good chip
- CO11023-9W Round White mixed yellow and white, IBS, creamy, FC=1.2, CR=1.8, Chip Notes: 60% Good chip
- NDTX14362AB-1W Round White very nice+, very round, BOT, FC=1.0, CR=1.5, Chip Notes: 80% Good chip
- AC11494-6W Compressed White deep bud end, compressed, bright white flesh, nice, FC=1.0, CR=3.6, Chip Notes: 20% Good chip
- TX09403-15W Round White large+, FC=1.0, CR=2.4, Chip Notes: 49% Good chip
- NDTX1432Y-2Y/Y Compressed White purple eye, snaps, deep bud end, FC=3.0, CR=3.7, Chip Notes: 0% Good chip
- NDTX12203AB-1W Round White nice shape, several sizes, scab, Ryadg based on MAS, parent, nice shape, careful: mixed white and yellow flesh, FC=1.0, CR=2.5, Chip Notes: 57% Good chip
- COTX12235-2W Round White all small, some pink tint on stem end, golf balls, FC=1.0, CR=1.9, Chip Notes: 67% Good chip
- TX12484-2WZC Round White pink tint, nice, FC=1.0, CR=3.7, Chip Notes: 3% Good chip
- NDTX13315CB-1W Round White smooth skin, FC=1.0, CR=3.8, Chip Notes: 0% Good chip
- AORTX09033-11W Round White a little flat, mixed white and yellow??, DROP, FC=2.0, CR=2.4, Chip Notes: 37% Good chip

- COTX13231-1W Round White FC=1.0, CR=3.8, Chip Notes: 3% Good chip
- COTX16078-4W Round White nice shape, low tuber number, FC=1.0, CR=3.8, Chip Notes: 10% Good chip
- CO11037-5W Oval White mixed shapes from round to oblong, not round, not a chipper, FC=1.0, CR=3.7, Chip Notes: 17% Good chip
- TX17759-5W Compressed White low tuber number, nice, FC=1.0, CR=2.7, Chip Notes: 17% Good chip
- NDTX13280CB-3W Round White IBS mainly in vascular area+, DROP+, FC=1.0, CR=3.2, Chip Notes: 30% Good chip
- CO10076-4W Round White internals, FC=1.0, CR=3.6, Chip Notes: 17% Good chip
- COTX13231-4W Round White scab, FC=1.0, CR=3.3, Chip Notes: 22% Good chip
- COTX16078-2W Round White FC=1.5, CR=3.4, Chip Notes: 28% Good chip
- COTX13230-1W Round White FC=1.0, CR= 3.1, Chip Notes: 35% Good chip
- NDTX12135-1W Round White skinning, bruised skin+, FC=1.0, CR=3.3, Chip Notes: 26% Good chip
- CO11023-2W Round White FC=1.0, CR=4.1, Chip Notes: 0% Good chip

<sup>1</sup>CR=chip quality rating 1=light to 6= dark

<sup>2</sup>FC=Flesh color intensity, 1=very light to 5=very dark

Summary:

NDTX14362AB-1W, COTX12235-2W, COTX16054-1Ru, NDTX1246-5W/Y, CO11023-9W, CO10073-7W, and TX17846-1W were the best entries based on fresh chip quality.

Disposition: [See Appendix C.](#)



Dalhart  
Table 1a.

Total yield, total yield of U.S. No.1, over 18 oz, under 4 oz and culls/No.2 potatoes and general rating of 57 entries in the Western, Southwestern Regional, and Texas  
Advanced Chip Selection Chip Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Total Yield cwt/a	U.S. No. 1 cwt/a			Over 18 oz cwt/a	Under 4 oz. cwt/a	Culls/ No.2 cwt/a	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
NDTX14247CAB-2W	EGSS20	628.7	517.5	195.8	289.3	32.3	0.0	106.3	4.9	4.4
AORTX09037-5W/Y	TXCH20	596.4	336.0	187.4	146.4	2.1	0.0	255.5	4.9	4.2
Snowden	WR20	586.4	501.6	151.6	266.3	83.7	0.0	84.8	0.0	4.1
Atlantic PUSA	PUSA	585.4	465.3	148.4	260.5	56.4	0.0	117.6	2.4	4.1
Snowden PUSA	PUSA	583.1	431.6	162.9	243.3	25.5	0.0	149.3	2.1	4.0
NDTX14247CAB-1W	EGSS20	565.1	442.5	177.1	239.0	26.4	0.0	119.7	2.9	4.3
Mackinaw	PUSA	551.4	436.8	200.4	211.1	25.3	0.0	110.1	4.4	4.2
ATX13134-3W/Y	NCPT20	549.8	397.0	157.1	193.1	46.8	0.0	152.4	0.5	4.2
MSZ063-2	PUSA	531.8	352.5	155.7	196.8	0.0	0.0	176.0	3.4	4.0
NDTX14252B-2W	EGSS20	529.7	217.2	130.1	84.8	2.3	0.0	301.2	11.3	4.2
TX17846-1W	EGSS20	526.0	299.0	194.5	104.6	0.0	0.0	227.0	0.0	4.7
AORTX09037-1W/Y	SW20	517.7	356.9	153.9	175.1	27.9	0.0	158.3	2.4	3.9
MSZ242-13	PUSA	509.7	401.3	114.1	189.1	98.1	0.0	102.8	5.6	4.3
TX09403-21W	SW20	509.0	422.6	67.6	273.8	81.3	0.0	82.7	3.7	4.1
ATTX07042-3W/Y	SW20	505.9	363.0	162.9	177.7	22.4	0.0	135.4	7.5	4.3
NDTX1482YB-1W	NCPT20	504.9	180.3	95.9	84.4	0.0	0.0	313.0	11.7	4.2
TX17734-2W/Y	EGSS20	499.0	145.8	115.5	30.4	0.0	0.0	353.2	0.0	3.8
B2869-29	PUSA	488.2	266.0	149.0	117.0	0.0	0.0	222.2	0.0	3.8
CO12293-1W	SW20	487.0	431.8	114.8	299.6	17.4	0.0	51.9	3.4	4.1
MSW474-1	PUSA	487.0	276.4	164.0	108.4	4.0	0.0	202.4	8.2	3.7
COTX16013-5W	TXCH20	485.9	423.7	127.2	296.5	0.0	0.0	62.2	0.0	4.2
Winterset	PUSA	483.6	350.8	148.7	159.7	42.4	0.0	128.7	4.1	4.1
Atlantic	WR20	481.2	432.2	114.7	202.4	115.2	0.0	35.7	13.3	3.9
NDTX1444-5W	NCPT20	474.2	337.5	113.9	196.8	26.8	0.0	112.1	24.6	4.0
CO10073-7W	WR20	448.6	262.5	131.3	131.2	0.0	0.0	185.3	0.8	4.1
AORTX09037-4W/Y	TXCH20	443.2	244.5	145.8	98.7	0.0	0.0	182.4	16.3	3.9
NDTX1244-3W/Y	TXCH20	442.0	339.7	102.3	212.0	25.3	0.0	100.7	1.7	3.7
AOR12197-4	WR20	425.1	307.2	95.6	196.3	15.3	0.0	108.4	9.5	3.8
CO12235-3W	SW20	422.0	271.5	110.3	156.8	4.4	0.0	143.1	7.5	4.0
NDTX14263BC-3W	EGSS20	419.1	159.7	68.2	87.9	3.7	0.0	257.3	2.1	4.1
TX12484-3WZC	NCPT20	419.1	240.8	126.0	113.2	1.7	0.0	177.2	1.1	4.1
NDTX113030C-3W	TXCH20	418.4	324.1	120.6	170.2	33.2	0.0	93.5	0.8	3.7
Petoskey	PUSA	417.0	291.3	148.4	139.1	3.8	0.0	123.4	2.3	3.9
NDTX1246-5W/Y	TXCH20	415.2	248.6	140.5	101.4	6.7	0.0	150.5	16.0	3.7
COTX16054-1Ru	EGSS20	410.4	279.3	135.9	126.1	17.4	0.0	131.1	0.0	3.9
ATTX10333-1W/Y	EGSS20	408.6	262.5	115.2	139.9	7.5	0.0	136.4	9.8	3.8
CO11023-9W	WR20	391.8	280.3	139.6	120.2	20.6	0.0	106.8	4.7	4.1
Average		490.5	332.4	137.4	171.3	23.7	0.0	152.9	5.2	4.0
L.S.D. (.05)		99.3	79.6	38.9	58.6	21.7	0.0	55.1	9.5	0.2

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

Dalhart  
Table 1a.

Total yield, total yield of U.S. No.1, over 18 oz, under 4 oz and culls/No.2 potatoes and general rating of 57 entries in the Western, Southwestern Regional, and Texas  
Advanced Chip Selection Chip Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Total Yield cwt/a	U.S. No. 1 cwt/a			Over 18 oz cwt/a	Under 4 oz. cwt/a	Culls/ No.2 cwt/a	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
NDTX14362AB-1W	TXCH20	388.9	241.1	129.8	111.3	0.0	144.0	3.8	4.2	
AC11494-6W	SW20	386.8	203.6	117.3	86.3	0.0	183.2	0.0	3.9	
TX09403-15W	WR20	372.6	311.0	68.9	181.7	60.4	51.6	10.1	3.8	
NDTX1432Y-2Y/Y	TXCH20	359.3	190.5	113.8	72.8	4.0	161.7	7.2	3.8	
NDTX12203AB-1W	TXCH20	347.7	250.1	108.6	123.1	18.5	91.7	5.9	3.9	
COTX12235-2W	TXCH20	346.8	115.3	85.0	30.4	0.0	219.9	11.6	3.9	
TX12484-2WZC	TXCH20	346.5	274.1	89.4	170.8	13.9	66.7	5.8	3.8	
NDTX13315CB-1W	EGSS20	345.6	236.0	99.6	130.7	5.6	105.1	4.6	3.6	
AORTX09033-11W	TXCH20	340.9	188.7	109.7	79.0	0.0	138.3	13.9	3.8	
COTX13231-1W	NCPT20	327.0	215.7	106.0	82.5	27.1	105.4	5.9	3.8	
COTX16078-4W	EGSS20	326.9	158.1	39.1	108.2	10.8	167.0	1.8	3.7	
CO11037-5W	WR20	320.3	245.4	88.8	145.5	11.1	59.5	15.4	3.4	
TX17759-5W	EGSS20	318.5	230.0	86.8	143.2	0.0	85.7	2.7	3.9	
NDTX13280CB-3W	TXCH20	317.5	199.5	103.9	88.0	7.6	114.5	3.5	3.8	
CO10076-4W	WR20	307.2	205.6	91.2	111.5	2.9	99.1	2.4	3.7	
COTX13231-4W	NCPT20	296.5	203.5	96.9	102.2	4.4	83.1	9.9	3.6	
COTX16078-2W	EGSS20	290.1	223.7	63.8	127.0	32.9	64.1	2.3	3.9	
COTX13230-1W	EGSS20	269.7	134.2	89.8	44.4	0.0	122.8	12.7	3.9	
NDTX12135-1W	TXCH20	256.4	158.0	85.0	73.1	0.0	92.6	5.8	3.6	
CO11023-2W	WR20	158.8	118.5	42.2	70.9	5.3	38.1	2.1	3.5	
Average		321.2	205.1	90.8	104.1	10.2	0.0	109.7	6.4	3.8
L.S.D. (.05)		99.3	79.6	38.9	58.6	21.7	0.0	55.1	9.5	0.2

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

Dalhart  
Table 1b.

Percent by weight of U.S. No. 1, over 18 oz, under 4 oz, culls/No.2 potatoes, specific gravity, tuber type and skin type of 57 entries in the Western, Southwestern Regional, and Texas  
Advanced Chip Selection Chip Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
NDTX14247CAB-2W	EGSS20	82.1	31.3	45.9	4.9	0.0	17.1	0.7	1.076	16.1	Round	White
AORTX09037-5W/Y	TXCH20	56.3	31.3	24.6	0.4	0.0	42.9	0.8	1.072	15.4	Compressed	White
Snowden	WR20	85.7	25.6	45.7	14.3	0.0	14.3	0.0	1.074	15.7	Compressed	White
Atlantic PUSA	PUSA	79.9	25.5	44.7	9.7	0.0	19.7	0.4	1.082	17.2	Compressed	Buff
Snowden PUSA	PUSA	74.0	28.0	41.6	4.4	0.0	25.6	0.4	1.079	16.6	Round	White
NDTX14247CAB-1W	EGSS20	78.2	31.5	42.0	4.7	0.0	21.3	0.5	1.073	15.6	Round	White
Mackinaw	PUSA	79.3	36.3	38.4	4.5	0.0	19.9	0.8	1.086	17.8	Round	White
ATX13134-3W/Y	NCPT20	71.1	28.5	34.1	8.5	0.0	28.8	0.1	1.084	17.5	Round	White
MSZ063-2	PUSA	65.3	29.2	36.1	0.0	0.0	34.0	0.7	1.081	16.9	Round	White
NDTX14252B-2W	EGSS20	41.1	24.6	16.0	0.5	0.0	56.8	2.1	1.073	15.5	Round	White
TX17846-1W	EGSS20	56.8	36.7	20.1	0.0	0.0	43.2	0.0	1.075	15.9	Round	White
AORTX09037-1W/Y	SW20	69.1	30.2	34.1	4.8	0.0	30.5	0.4	1.075	15.9	Round	White
MSZ242-13	PUSA	78.1	22.8	36.3	18.9	0.0	20.7	1.2	1.089	18.3	Round	White
TX09403-21W	SW20	84.7	13.2	54.6	16.9	0.0	14.5	0.9	1.070	15.0	Compressed	White
ATTX07042-3W/Y	SW20	71.4	32.7	34.7	4.0	0.0	27.2	1.4	1.073	15.6	Round	White
NDTX1482YB-1W	NCPT20	35.6	18.9	16.7	0.0	0.0	62.1	2.3	1.079	16.7	Round	White
TX17734-2W/Y	EGSS20	28.8	22.8	6.0	0.0	0.0	71.2	0.0	1.071	15.2	Round	White
B2869-29	PUSA	54.7	30.6	24.1	0.0	0.0	45.3	0.0	1.087	18.0	Round	White
CO12293-1W	SW20	88.3	23.3	61.2	3.9	0.0	11.0	0.7	1.073	15.6	Round	White
MSW474-1	PUSA	56.7	33.3	22.7	0.8	0.0	41.5	1.7	1.078	16.4	Compressed	White
COTX16013-5W	TXCH20	87.2	26.2	61.0	0.0	0.0	12.8	0.0	1.069	14.8	Round	White
Winterset	PUSA	72.6	30.1	34.1	8.5	0.0	26.4	0.9	1.090	18.5	Round	White
Atlantic	WR20	89.9	24.1	41.3	24.5	0.0	7.2	2.9	1.083	17.4	Round	Buff
NDTX1444-5W	NCPT20	71.2	23.8	42.0	5.3	0.0	23.8	5.0	1.075	16.0	Round	White
CO10073-7W	WR20	60.1	29.8	30.3	0.0	0.0	39.7	0.2	1.078	16.4	Round	White
AORTX09037-4W/Y	TXCH20	55.1	32.9	22.2	0.0	0.0	41.2	3.7	1.077	16.2	Round	White
NDTX1244-3W/Y	TXCH20	76.9	22.7	49.0	5.3	0.0	22.7	0.4	1.076	16.1	Round	White
AOR12197-4	WR20	72.5	22.7	46.2	3.6	0.0	25.3	2.2	1.073	15.6	Compressed	White
CO12235-3W	SW20	64.3	26.2	37.2	1.0	0.0	34.0	1.7	1.082	17.1	Round	White
NDTX14263BC-3W	EGSS20	36.8	15.9	20.0	0.9	0.0	62.7	0.5	1.078	16.5	Round	White
TX12484-3WZC	NCPT20	57.0	29.8	26.8	0.4	0.0	42.7	0.3	1.075	15.9	Round	White
NDTX113030C-3W	TXCH20	77.9	27.8	41.8	8.3	0.0	21.9	0.2	1.085	17.6	Compressed	White
Petoskey	PUSA	70.0	35.6	33.5	0.9	0.0	29.4	0.6	1.082	17.1	Compressed	White
NDTX1246-5W/Y	TXCH20	59.9	33.7	24.5	1.6	0.0	36.2	3.9	1.077	16.3	Round	White
COTX16054-1Ru	EGSS20	68.2	32.5	31.9	3.8	0.0	31.8	0.0	1.069	14.9	Round	White
ATTX10333-1W/Y	EGSS20	64.0	28.1	34.3	1.6	0.0	33.9	2.2	1.093	19.2	Round	White
CO11023-9W	WR20	71.7	35.6	30.8	5.3	0.0	27.1	1.2	1.076	16.0	Round	White
Average		67.4	27.9	34.8	4.6	0.0	31.5	1.1	1.078	16.4		
L.S.D. (.05)		10.7	7.1	11.0	4.9	0.0	10.8	2.4	0.004	0.7		

Dalhart  
Table 1b.

Percent by weight of U.S. No. 1, over 18 oz, under 4 oz, culls/No.2 potatoes, specific gravity, tuber type and skin type of 57 entries in the Western, Southwestern Regional, and Texas Advanced Chip Selection Chip Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
NDTX14362AB-1W	TXCH20	61.9	33.3	28.6	0.0	0.0	37.1	1.0	1.077	16.3	Round	White
AC11494-6W	SW20	53.2	30.3	22.9	0.0	0.0	46.8	0.0	1.070	15.0	Compressed	White
TX09403-15W	WR20	83.4	18.6	48.9	15.8	0.0	14.0	2.7	1.066	14.4	Round	White
NDTX1432Y-2Y/Y	TXCH20	52.8	31.8	19.8	1.2	0.0	45.2	2.0	1.065	14.2	Compressed	White
NDTX12203AB-1W	TXCH20	71.8	31.1	35.6	5.1	0.0	26.5	1.7	1.072	15.3	Round	White
COTX12235-2W	TXCH20	32.5	24.0	8.5	0.0	0.0	64.1	3.4	1.069	14.8	Round	White
TX12484-2WZC	TXCH20	77.2	27.3	46.6	3.3	0.0	20.8	2.0	1.073	15.5	Round	White
NDTX13315CB-1W	EGSS20	66.9	28.5	36.5	1.9	0.0	31.7	1.3	1.074	15.7	Round	White
AORTX09033-11W	TXCH20	55.6	31.5	24.1	0.0	0.0	40.7	3.7	1.079	16.6	Round	White
COTX13231-1W	NCPT20	65.9	32.1	25.4	8.4	0.0	32.2	1.9	1.068	14.7	Round	White
COTX16078-4W	EGSS20	61.4	17.0	42.4	2.1	0.0	37.2	1.4	1.070	15.0	Round	White
CO11037-5W	WR20	76.6	27.9	45.6	3.2	0.0	18.6	4.8	1.067	14.4	Oval	White
TX17759-5W	EGSS20	71.0	28.2	42.9	0.0	0.0	27.5	1.5	1.073	15.6	Compressed	White
NDTX13280CB-3W	TXCH20	62.9	32.9	27.5	2.5	0.0	35.9	1.2	1.069	14.9	Round	White
CO10076-4W	WR20	65.2	30.4	34.0	0.8	0.0	33.9	0.8	1.070	14.9	Round	White
COTX13231-4W	NCPT20	71.6	32.9	36.1	2.5	0.0	25.8	2.6	1.068	14.7	Round	White
COTX16078-2W	EGSS20	76.9	21.8	43.2	12.0	0.0	22.2	0.9	1.071	15.1	Round	White
COTX13230-1W	EGSS20	49.0	33.1	15.9	0.0	0.0	46.4	4.6	1.071	15.1	Round	White
NDTX12135-1W	TXCH20	60.9	32.7	28.2	0.0	0.0	37.1	2.0	1.071	15.2	Round	White
CO11023-2W	WR20	72.6	27.0	42.0	3.5	0.0	25.7	1.8	1.075	15.9	Round	White
Average		64.5	28.6	32.7	3.1	0.0	33.5	2.1	1.071	15.2		
L.S.D. (.05)		10.7	7.1	11.0	4.9	0.0	10.8	2.4	0.004	0.7		

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Table 1c.

Average number of tubers, tuber weight, percent stand 60 days after planting, plant characteristics, percent dead vine at vine kill, length/with, and with/thickness, length cm, with cm, and thickness cm of 57 entries in the Western, Southwestern Regional, and Texas Advanced Chip Selection Chip Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines	Length/ With	With/ Thickness	Length cm	With cm	Thickness cm
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>						
NDTX14247CAB-2W	EGSS20	9.7	4.7	100	2.3	3.7	3.9	3.8	18	1.01	1.15	6.8	6.7	5.9
AORTX09037-5W/Y	TXCH20	11.7	3.7	100	2.7	3.7	4.2	3.5	12	0.95	1.20	6.4	6.7	5.6
Snowden	WR20	7.7	5.5	100	1.0	4.2	4.8	3.8	3	0.98	1.28	6.7	6.9	5.4
Atlantic PUSA	PUSA	8.3	5.1	100	1.7	4.2	4.5	3.9	5	1.01	1.17	6.7	6.6	5.6
Snowden PUSA	PUSA	9.5	4.5	100	1.0	4.0	5.0	3.5	0	1.01	1.17	6.7	6.6	5.7
NDTX14247CAB-1W	EGSS20	9.0	4.6	100	2.7	3.2	4.8	3.8	0	1.08	1.15	7.0	6.5	5.7
Mackinaw	PUSA	8.4	4.8	100	1.3	4.2	4.4	3.8	8	1.05	1.18	6.8	6.5	5.5
ATX13134-3W/Y	NCPT20	9.7	4.2	97	2.3	3.8	4.4	4.0	13	1.13	1.09	7.3	6.4	5.9
MSZ063-2	PUSA	10.1	3.8	100	1.3	3.8	4.3	3.3	13	1.01	1.25	6.7	6.7	5.3
NDTX14252B-2W	EGSS20	13.2	2.9	100	3.0	3.8	4.4	3.8	8	1.10	1.19	7.2	6.6	5.6
TX17846-1W	EGSS20	11.9	3.2	100	1.5	4.0	4.1	3.8	15	0.98	1.17	6.4	6.6	5.7
AORTX09037-1W/Y	SW20	9.5	3.9	100	1.7	4.0	5.0	3.8	0	1.07	1.17	7.2	6.7	5.7
MSZ242-13	PUSA	7.0	5.3	100	1.3	4.0	5.0	3.0	0	1.03	1.20	6.7	6.6	5.5
TX09403-21W	SW20	6.4	6.1	97	2.0	3.7	4.3	3.5	13	1.02	1.13	6.7	6.6	5.8
ATTX07042-3W/Y	SW20	8.6	4.3	100	1.3	4.0	4.3	3.8	13	1.09	1.08	6.9	6.3	5.9
NDTX1482YB-1W	NCPT20	15.3	2.6	92	2.0	3.3	3.9	3.8	13	1.06	1.17	6.7	6.3	5.4
TX17734-2W/Y	EGSS20	12.8	2.8	100	1.3	4.2	4.5	3.8	5	1.33	1.10	7.3	5.5	5.0
B2869-29	PUSA	10.2	3.5	100	1.7	3.8	4.3	3.5	13	1.05	1.23	6.7	6.4	5.2
COI2293-1W	SW20	7.2	4.9	100	1.3	3.7	5.0	3.8	0	1.00	1.23	6.9	6.9	5.6
MSW474-1	PUSA	12.8	3.0	97	1.3	3.8	5.0	3.5	0	0.85	1.22	5.7	6.7	5.5
COTX16013-5W	TXCH20	7.1	5.0	100	2.0	4.5	4.5	4.0	0	1.14	1.05	6.6	5.8	5.5
Winterset	PUSA	7.9	4.5	100	1.7	3.8	4.5	3.8	5	1.09	1.09	6.9	6.3	5.8
Atlantic	WR20	5.9	6.4	94	1.7	4.0	4.8	3.8	3	1.10	1.16	7.0	6.4	5.5
NDTX1444-5W	NCPT20	8.8	4.2	94	2.3	3.5	4.2	3.5	10	1.09	1.20	7.0	6.4	5.3
COI0073-7W	WR20	9.8	3.6	94	2.3	3.3	4.5	3.3	5	1.00	1.16	6.6	6.6	5.7
AORTX09037-4W/Y	TXCH20	10.2	3.3	97	2.0	4.0	4.8	4.0	3	1.08	1.16	7.1	6.6	5.7
NDTX1244-3W/Y	TXCH20	7.3	4.5	97	1.3	3.7	5.0	3.5	0	1.02	1.09	6.4	6.3	5.8
AOR12197-4	WR20	7.3	4.2	100	1.0	4.2	5.0	3.8	0	0.99	1.11	6.2	6.3	5.7
COI2235-3W	SW20	7.6	4.1	100	2.0	3.7	5.0	3.3	0	0.99	1.11	6.4	6.5	5.9
NDTX14263BC-3W	EGSS20	10.6	2.9	100	2.7	3.7	3.8	3.3	18	1.03	1.16	6.7	6.5	5.6
TX12484-3WZC	NCPT20	9.3	3.5	94	2.7	3.7	3.9	3.5	15	1.19	1.12	7.3	6.1	5.5
NDTX113030C-3W	TXCH20	7.2	4.7	92	1.7	3.5	4.8	3.8	3	1.03	1.26	6.9	6.7	5.3
Petoskey	PUSA	7.6	4.2	97	2.0	3.3	5.0	3.5	0	0.98	1.29	7.0	7.1	5.5
NDTX1246-5W/Y	TXCH20	8.7	3.8	92	2.3	3.5	3.7	3.3	30	1.11	1.08	6.9	6.2	5.7
COTX16054-1Ru	EGSS20	8.0	3.9	96	3.0	3.5	3.0	3.3	53	1.10	1.14	6.8	6.2	5.5
ATTX10333-1W/Y	EGSS20	7.4	4.0	100	2.3	3.8	4.5	4.0	3	1.05	1.23	7.0	6.7	5.4
COI1023-9W	WR20	7.2	4.0	100	1.7	3.5	5.0	3.5	0	1.02	1.10	6.6	6.5	5.9
Average		9.1	4.2	98	1.9	3.8	4.5	3.6	8	1.05	1.16	6.8	6.5	5.6
L.S.D. (.05)		1.7	1.2	12	0.7	0.5	0.5	0.3	12	0.10	ns	0.6	ns	ns

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

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

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

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

Dalhart  
Table 1c.

Average number of tubers and stems per plant, tuber weight, percent stand 40 and 60 days after planting, plant characteristics, percent dead vine at vine kill, length/with, and with/thickness, length cm, with cm, and thickness cm of 57 entries in the Western, Southwestern Regional, and Texas Advanced Chip Selection Chip Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Average Number Tubers/ Plant	Average Number Stems/ Plant	Average Tuber Weight In oz.	Percent Stand 40 DAP	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines	Length/ With	With/ Thickness	Length cm	With cm	Thickness cm
							Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>						
NDTX14362AB-1W	TXCH20	7.9	0.0	3.6	0	100	2.3	3.5	3.5	3.3	25	1.01	1.17	6.6	6.6	5.7
AC11494-6W	SW20	9.1	0.0	3.1	0	100	1.7	3.8	5.0	4.0	0	0.95	1.16	5.9	6.2	5.4
TX09403-15W	WR20	6.1	0.0	5.5	0	83	2.3	3.2	3.3	3.3	42	1.05	1.14	6.8	6.5	5.7
NDTX1432Y-2Y/Y	TXCH20	9.5	0.0	3.2	0	86	2.7	3.2	4.2	3.5	8	1.00	1.09	6.3	6.3	5.8
NDTX12203AB-1W	TXCH20	6.3	0.0	4.2	0	97	2.7	3.2	2.8	3.3	58	1.04	1.11	6.9	6.7	6.0
COTX12235-2W	TXCH20	10.1	0.0	2.5	0	100	2.7	3.7	4.8	3.0	3	1.10	1.08	6.7	6.1	5.7
TX12484-2WZC	TXCH20	5.7	0.0	4.6	0	94	2.3	3.3	4.8	3.5	3	1.02	1.20	6.8	6.7	5.6
NDTX13315CB-1W	EGSS20	6.7	0.0	4.0	0	94	3.0	3.3	2.8	3.3	55	1.19	1.08	7.2	6.1	5.6
AORTX09033-11W	TXCH20	6.8	0.0	3.6	0	100	2.3	3.3	4.8	3.0	3	1.07	1.27	6.9	6.5	5.1
COTX13231-1W	NCPT20	6.1	0.0	4.0	0	100	2.0	3.2	4.0	3.3	10	1.07	1.18	7.0	6.6	5.6
COTX16078-4W	EGSS20	3.7	0.0	10.0	0	67	2.0	3.0	5.0	3.8	0	1.15	1.12	7.2	6.2	5.6
CO11037-5W	WR20	5.2	0.0	4.9	0	92	2.0	3.7	5.0	3.8	0	1.31	1.17	8.2	6.2	5.4
TX17759-5W	EGSS20	7.3	0.0	4.0	0	78	2.3	2.8	4.2	3.0	10	1.04	1.13	6.7	6.4	5.7
NDTX13280CB-3W	TXCH20	7.0	0.0	3.3	0	100	2.7	3.3	2.3	3.5	70	1.12	1.12	7.3	6.6	5.8
CO10076-4W	WR20	9.2	0.0	3.6	0	69	2.7	3.0	4.8	3.5	0	1.06	1.16	7.1	6.7	5.8
COTX13231-4W	NCPT20	6.5	0.0	4.2	0	78	3.0	3.0	4.3	3.3	8	1.10	1.12	6.9	6.3	5.7
COTX16078-2W	EGSS20	4.6	0.0	4.6	0	100	2.5	3.5	3.7	3.8	30	1.16	1.04	7.5	6.4	6.2
COTX13230-1W	EGSS20	6.0	0.0	3.3	0	100	2.0	3.3	4.3	3.3	13	1.09	1.10	6.6	6.1	5.5
NDTX12135-1W	TXCH20	6.6	0.0	3.6	0	81	2.7	3.0	5.0	3.3	0	1.14	1.13	6.9	6.1	5.4
CO11023-2W	WR20	5.7	0.0	4.0	0	56	2.7	2.3	5.0	3.3	0	1.11	1.19	7.0	6.3	5.3
Average		6.8	0.0	4.2	0	89	2.4	3.2	4.1	3.4	17	1.09	1.14	6.9	6.4	5.6
L.S.D. (.05)		1.7	0.0	1.2	0	12	0.7	0.5	0.5	0.3	12	0.10	ns	0.6	ns	ns

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

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

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

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

Dalhart Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 57  
 Table 1d. entries in the Western, Southwestern Regional, and Texas Advanced Chip Selection Chip Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Greening <sup>11</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>11</sup>	Percent Internal Brownspot
NDTX14247CAB-2W	EGSS20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	4.8	5.0	4.8	0	0	0	0
AORTX09037-5W/Y	TXCH20	2.5	1.0	1.5	3.9	1.7	5.0	5.0	4.7	5.0	5.0	5.0	10	0	0	0
Snowden	WR20	1.0	1.0	2.9	3.5	2.9	5.0	5.0	5.0	5.0	5.0	5.0	37	0	0	30
Atlantic PUSA	PUSA	1.2	1.0	3.0	3.8	2.6	5.0	5.0	5.0	5.0	5.0	5.0	37	3	0	70
Snowden PUSA	PUSA	1.0	1.0	3.0	3.5	2.7	5.0	5.0	5.0	5.0	5.0	5.0	3	0	0	37
NDTX14247CAB-1W	EGSS20	1.0	1.1	1.0	4.0	1.0	5.0	5.0	4.9	4.9	5.0	5.0	17	0	0	0
Mackinaw	PUSA	1.1	1.5	1.0	3.8	1.0	5.0	5.0	5.0	4.9	5.0	4.9	3	0	0	0
ATX13134-3W/Y	NCPT20	3.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	4.9	5.0	4.9	7	0	0	17
MSZ063-2	PUSA	1.0	1.0	1.0	3.8	1.0	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	7
NDTX14252B-2W	EGSS20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	4.7	5.0	4.7	37	0	0	0
TX17846-1W	EGSS20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AORTX09037-1W/Y	SW20	2.6	1.3	1.7	4.0	1.7	5.0	5.0	4.8	5.0	5.0	5.0	10	0	0	10
MSZ242-13	PUSA	1.0	1.0	1.9	3.9	1.7	5.0	5.0	5.0	5.0	5.0	5.0	3	0	0	3
TX09403-21W	SW20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	23	0	0	37
ATTX07042-3W/Y	SW20	2.9	1.0	1.0	4.0	1.0	4.9	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX1482YB-1W	NCPT20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	4.7	5.0	5.0	0	0	0	0
TX17734-2W/Y	EGSS20	2.6	1.7	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
B2869-29	PUSA	1.0	1.1	1.1	3.8	1.2	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	3
CO12293-1W	SW20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
MSW474-1	PUSA	1.0	1.0	2.4	3.8	2.0	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	0
COTX16013-5W	TXCH20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Winterset	PUSA	1.2	1.2	1.0	4.0	1.0	5.0	5.0	4.8	5.0	5.0	4.8	13	3	0	7
Atlantic	WR20	1.2	1.4	2.3	3.8	2.0	4.7	5.0	5.0	4.7	5.0	5.0	53	0	0	70
NDTX1444-5W	NCPT20	1.0	1.0	1.0	4.0	1.0	4.3	5.0	4.8	5.0	5.0	5.0	23	0	0	0
CO10073-7W	WR20	1.0	1.1	1.1	4.0	1.7	5.0	5.0	5.0	5.0	5.0	5.0	3	0	0	30
AORTX09037-4W/Y	TXCH20	2.5	1.1	1.2	4.0	1.4	5.0	5.0	4.7	4.7	5.0	5.0	7	0	0	0
NDTX1244-3W/Y	TXCH20	3.0	1.0	1.1	3.8	1.0	5.0	5.0	5.0	5.0	4.7	4.8	33	0	0	20
AOR12197-4	WR20	2.7	1.0	1.0	3.9	2.5	4.7	5.0	5.0	4.9	5.0	5.0	10	0	7	7
CO12235-3W	SW20	1.2	1.0	1.0	4.0	1.0	5.0	5.0	4.7	5.0	5.0	4.5	7	0	0	0
NDTX14263BC-3W	EGSS20	1.0	1.0	1.0	3.9	1.0	5.0	5.0	5.0	4.8	5.0	5.0	20	0	0	7
TX12484-3WZC	NCPT20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX113030C-3W	TXCH20	1.0	1.7	1.3	3.8	1.0	5.0	5.0	5.0	5.0	5.0	4.9	7	0	0	0
Petoskey	PUSA	1.0	1.2	2.8	3.9	2.6	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	0
NDTX1246-5W/Y	TXCH20	3.2	1.5	1.3	3.8	1.4	5.0	5.0	4.8	4.2	5.0	5.0	0	0	0	3
COTX16054-1Ru	EGSS20	1.0	1.3	1.3	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
ATTX10333-1W/Y	EGSS20	3.0	1.5	1.0	3.9	1.0	5.0	5.0	5.0	4.9	5.0	5.0	23	0	3	3
CO11023-9W	WR20	1.2	1.0	1.0	4.0	1.0	5.0	5.0	5.0	4.8	5.0	4.8	3	0	0	23
Average		1.5	1.1	1.4	3.9	1.4	5.0	5.0	5.0	4.9	5.0	5.0	10.6	0	0	10
L.S.D. (.05)		0.2	0.3	0.2	0.1	0.3	0.2	ns	ns	0.2	ns	0.2	18.4	ns	ns	17.9

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

<sup>6</sup> 1 to 5=none  
<sup>7</sup> 1 to 5=none  
<sup>8</sup> 1 to 5=none  
<sup>9</sup> 1 to 5=none  
<sup>10</sup> 1 to 5=none

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

Dalhart  
Table 1d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 57 entries in the Western, Southwestern Regional, and Texas Advanced Chip Selection Chip Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Greening <sup>11</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>11</sup>	Percent Internal Brownspot
NDTX14362AB-1W	TXCH20	1.0	1.0	1.0	4.0	1.0	4.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
AC11494-6W	SW20	1.0	1.0	1.0	3.8	1.0	5.0	5.0	4.8	5.0	5.0	5.0	3	0	0	0
TX09403-15W	WR20	1.0	1.0	1.0	3.9	1.0	4.3	5.0	5.0	5.0	5.0	5.0	17	0	0	47
NDTX1432Y-2Y/Y	TXCH20	3.0	1.0	1.0	4.0	1.4	5.0	5.0	5.0	5.0	4.9	4.9	3	0	0	0
NDTX12203AB-1W	TXCH20	1.0	1.3	1.0	4.0	1.0	4.8	5.0	4.9	5.0	5.0	5.0	10	3	0	0
COTX12235-2W	TXCH20	1.0	1.0	1.0	4.3	1.0	5.0	5.0	5.0	4.9	5.0	5.0	3	0	0	0
TX12484-2WZC	TXCH20	1.0	1.0	1.0	3.8	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	3	3	3
NDTX13315CB-1W	EGSS20	1.0	1.6	1.0	3.8	1.0	5.0	5.0	5.0	5.0	5.0	5.0	3	0	0	7
AORTX09033-11W	TXCH20	2.0	1.3	1.0	4.0	1.0	4.9	5.0	4.8	4.7	5.0	4.8	0	0	0	0
COTX13231-1W	NCPT20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	3	0	7
COTX16078-4W	EGSS20	1.0	1.0	1.0	4.0	1.0	4.8	5.0	5.0	4.9	5.0	5.0	0	0	5	0
CO11037-5W	WR20	1.0	3.3	1.0	3.9	1.0	5.0	5.0	5.0	4.7	4.7	5.0	0	0	0	0
TX17759-5W	EGSS20	1.0	1.1	1.0	4.3	1.0	4.9	5.0	5.0	4.9	5.0	5.0	23	0	0	7
NDTX13280CB-3W	TXCH20	1.0	1.2	1.1	4.0	1.2	4.9	5.0	5.0	5.0	5.0	5.0	7	0	0	27
CO10076-4W	WR20	1.0	1.0	1.0	3.8	1.0	5.0	5.0	5.0	4.9	5.0	5.0	27	3	0	20
COTX13231-4W	NCPT20	1.0	1.3	1.0	4.0	1.0	5.0	5.0	4.6	4.8	5.0	5.0	7	0	0	7
COTX16078-2W	EGSS20	1.5	1.0	1.0	4.3	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5	0	0	0
COTX13230-1W	EGSS20	1.0	1.0	1.0	4.0	1.0	5.0	5.0	5.0	4.8	5.0	5.0	3	0	0	0
NDTX12135-1W	TXCH20	1.0	1.2	1.1	3.9	1.0	5.0	5.0	5.0	4.9	4.7	5.0	3	0	0	13
CO11023-2W	WR20	1.0	1.0	1.0	4.0	1.7	4.8	5.0	5.0	4.8	5.0	5.0	27	0	0	7
Average		1.2	1.2	1.0	4.0	1.1	4.9	5.0	5.0	4.9	5.0	5.0	7.1	1	0	7
L.S.D. (.05)		0.2	0.3	0.2	0.1	0.3	0.2	ns	ns	0.2	ns	0.2	18.4	ns	ns	17.9

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

<sup>6</sup> 1 to 5=none  
<sup>7</sup> 1 to 5=none  
<sup>8</sup> 1 to 5=none  
<sup>9</sup> 1 to 5=none  
<sup>10</sup> 1 to 5=none

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



Dalhart Notes and general rating for all reps of 57 entries in the Western, Southwestern Regional, and Texas Advanced  
 Table 1e. Chip Selection Chip Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Notes Grading	General Rating Grading
NDTX14247CAB-2W	EGSS20	impressive high tuber number, BOT++,	4.6, 4.5, 4.2
AORTX09037-5W/Y	TXCH20	deep bud end, nice, high tuber number, buff skin	4, 4.2, 4.3
Snowden	WR20	, , deep bud end, high tuber number, internals	4.2, 4, 4
Atlantic PUSA	PUSA	, ,	4.2, 4.2, 4
Snowden PUSA	PUSA	, ,	4, 4, 4
NDTX14247CAB-1W	EGSS20	, very nice, BOT, nice	4.5, 4.2, 4.2
Mackinaw	PUSA	, uniform size and shape, deep bud end, larger tubers are a little flat, creamy flesh,	4.2, 4.2, 4.1
ATX13134-3W/Y	NCPT20	, various sizes, yellow flesh	4.2, 4, 4.5
MSZ063-2	PUSA	nice skin, good size, , deep bud end, compressed	4.2, 4, 3.8
NDTX14252B-2W	EGSS20	, high tuber number, small, uniform size and shape, drop, internals	4.2, 4.2, 4.2
TX17846-1W	EGSS20	BOT+, very uniform size and shape, smooth skin, very nice, high tuber number, tissue culture, advance, few eyes.	4.6, 4.7,
AORTX09037-1W/Y	SW20	, , high tuber number	3.8, 4, 3.8
MSZ242-13	PUSA	, buff skin,	4.2, 4.2, 4.5
TX09403-21W	SW20	large, very round, parent for shape, , parent for high yield, BOT	4, 4, 4.2
ATTX07042-3W/Y	SW20	, very nice, smooth skin, high tuber number, yellow flesh, BOT	4.5, 4.2, 4.2
NDTX1482YB-1W	NCPT20	BOT, small, golf balls, uniform size and shape, high tuber number, nice,	4.2, 4.2,
TX17734-2W/Y	EGSS20	very high tuber number, not a chipper, possibly small yellow, mixed flesh (some white, some yellow), tear drops,	3.8, 3.8, 3.7
B2869-29	PUSA	, deep bud end+, some compressed tubers,	3.7, 3.8, 3.8
CO12293-1W	SW20	, bruised,	4.2, 3.8, 4.2
MSW474-1	PUSA	deep bud end++, compressed++, buff skin, prominent shoulders+,	3.8, 3.6, 3.6
COTX16013-5W	TXCH20	very nice, some compressed, ,	4.2, ,
Winterset	PUSA	, , very smooth skin, high tuber number	4, 4, 4.2
Atlantic	WR20	buff skin, larger tubers are not oval to oblong,	3.8, 3.8, 4
NDTX1444-5W	NCPT20	bruised skin, ,	3.7, 4.2, 4
CO10073-7W	WR20	, , very nice, high tuber number, uniform size and shape	4, 4, 4.2
AORTX09037-4W/Y	TXCH20	DROP, non-uniform yellow flesh, washed out yellow flesh	3.8, 4, 4
NDTX1244-3W/Y	TXCH20	, angular, high tuber number, nice	3.7, 3.7, 3.8
AOR12197-4	WR20	, ,	3.8, 3.8, 3.8
CO12235-3W	SW20	, ,	4, 4, 4
NDTX14263BC-3W	EGSS20	high tuber number nice++, uniform size and shape+, small+, drop, internals,	4.2, 4, 4.2
TX12484-3WZC	NCPT20	, very nice, confirm ZC tolerance, consider releasing as germplasm, produce clean seed, send to Colorado	4, 4.2, 4
NDTX113030C-3W	TXCH20	very white flesh, oval, ,	3.7, 3.7, 3.8
Petoskey	PUSA	russet, nice, deep bund end, compressed, , buff skin, a little flat	3.8, 4, 3.8
NDTX1246-5W/Y	TXCH20	, ,	3.8, 3.7, 3.7
COTX16054-1Ru	EGSS20	, buff, not russet,	3.8, 4,
ATTX10333-1W/Y	EGSS20	, ,	3.8, 3.7, 3.8
CO11023-9W	WR20	mixed yellow and white, IBS, creamy	4, 4, 4.2

Dalhart  
Table 1e.

Notes and general rating for all reps of 57 entries in the Western, Southwestern Regional, and Texas  
Advanced Chip Selection Chip Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Notes Grading	General Rating Grading
NDTX14362AB-1W	TXCH20	very nice+, very round, BOT, deep bud end, compressed, bright white flesh,	4.2, 4.2, 4.2
AC11494-6W	SW20	compressed, nice,	3.6, 4, 4.2
TX09403-15W	WR20	large+, ,	3.7, 4, 3.8
NDTX1432Y-2Y/Y	TXCH20	purple eye, snaps, deep bud end, nice shape, several sizes, scab, Ryadg based on	4, 3.7, 3.6
NDTX12203AB-1W	TXCH20	MAS, parent, nice shape, careful: mixed white and	4, 3.8, 3.8
COTX12235-2W	TXCH20	, all small, some pink tint on stem end, golf balls	3.9, 3.8, 4
TX12484-2WZC	TXCH20	pink tint, nice,	3.8, 4, 3.6
NDTX13315CB-1W	EGSS20	, , smooth skin	3.5, 3.6, 3.6
AORTX09033-11W	TXCH20	a little flat, DROP, , mixed white and yellow??	3.7, 4, 3.8
COTX13231-1W	NCPT20	, ,	3.7, 3.8, 4
COTX16078-4W	EGSS20	nice shape, low tuber number, , mixed shapes from round to oblong, not round, not	3.5, 3.8,
CO11037-5W	WR20	a chipper	3.4, 3.4, 3.5
TX17759-5W	EGSS20	low tuber number, , nice	3.6, 3.8, 4.2
NDTX13280CB-3W	TXCH20	IBS mainly in vascular area+, DROP+, ,	4, 3.7, 3.7
CO10076-4W	WR20	, internals,	3.7, 3.6, 3.7
COTX13231-4W	NCPT20	, scab,	3.5, 3.7, 3.7
COTX16078-2W	EGSS20	, ,	4, 3.8,
COTX13230-1W	EGSS20	, ,	4, 3.8, 4
NDTX12135-1W	TXCH20	skinning, bruised skin+, ,	3.6, 3.8, 3.5
CO11023-2W	WR20	, ,	3.6, 3.5, 3.3

Dalhart  
Table 1f.

Specific gravity, percent solids, chip color rating, good chip, bad chip, percentage vascular discoloration, bruise, stem end discoloration, apical bruise notes, percentage of Zebra Defect at chipping, and percentage Zebra Defect at grading of 57 entries in the Western, Southwestern Regional, and Texas Advanced Chip Selection Chip Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Gravity		Chip Quality		% Good Chip	% Bad Chip	% Vas	% Bruise	% Stem	% Apical Bruise	Notes <sup>3</sup>
		% Solids	Rating <sup>1</sup>	Chip Color <sup>2</sup>								
NDTX14247CAB-2W	EGSS20	1.076	16.1	3.2	1.7	23	77	25	7	45	0	, , ,
AORTX09037-5W/Y	TXCH20	1.072	15.4	2.3	1.3	55	45	35	4	7	0	, , ,
Snowden	WR20	1.074	15.7	3.2	1.7	37	63	20	7	10	0	, , 1IBS,
Atlantic PUSA	PUSA	1.082	17.2	3.9	1.3	13	87	7	27	40	0	, , , 3IHN
Snowden PUSA	PUSA	1.079	16.6	3.8	2.0	3	97	33	30	20	0	4Dark, , ,
NDTX14247CAB-1W	EGSS20	1.073	15.6	2.6	1.3	55	45	7	9	26	0	, , ,
Mackinaw	PUSA	1.086	17.8	3.4	1.0	13	87	24	21	42	0	, , 2IBS,
ATX13134-3W/Y	NCPT20	1.084	17.5	2.3	3.0	45	55	13	12	22	0	, 2HH, , 3IBS
MSZ063-2	PUSA	1.081	16.9	3.3	1.3	20	80	41	0	32	0	, 2DARK, , 2IBS
NDTX14252B-2W	EGSS20	1.073	15.5	3.8	1.0	17	83	0	37	40	0	, , , 2HH
TX17846-1W	EGSS20	1.075	15.9	2.0	1.0	64	36	15	0	21	0	, , ,
AORTX09037-1W/Y	SW20	1.075	15.9	3.1	3.0	32	68	30	17	3	0	2DARK, , BOT,
MSZ242-13	PUSA	1.089	18.3	3.3	1.3	24	76	39	27	10	0	, , ,
TX09403-21W	SW20	1.070	15.0	2.3	1.3	50	50	10	23	17	0	, , ,
ATTX07042-3W/Y	SW20	1.073	15.6	3.2	3.0	11	89	21	20	48	0	, , ,
NDTX1482YB-1W	NCPT20	1.079	16.7	2.3	1.0	55	45	0	10	25	0	, , ,
TX17734-2W/Y	EGSS20	1.071	15.2	3.7	2.3	3	97	47	7	43	0	, , 2IBS, 1MECH,
B2869-29	PUSA	1.087	18.0	3.7	1.7	10	90	50	7	33	0	, , ,
CO12293-1W	SW20	1.073	15.6	2.7	1.3	30	70	50	3	10	0	, , ,
MSW474-1	PUSA	1.078	16.4	2.4	1.0	30	70	29	10	31	0	, , ,
COTX16013-5W	TXCH20	1.069	14.8	3.0	1.0	22	78	56	0	11	0	1HH, , ,
Winterset	PUSA	1.090	18.5	2.2	1.0	51	49	3	13	32	0	, 1SCAB, , ,
Atlantic	WR20	1.083	17.4	3.3	1.0	21	79	10	17	31	0	2IBS, 1MECH, , ,
NDTX1444-5W	NCPT20	1.075	16.0	2.6	1.0	27	73	33	0	37	0	, , , 1GH
CO10073-7W	WR20	1.078	16.4	1.9	1.3	54	46	7	3	29	0	, , ,
AORTX09037-4W/Y	TXCH20	1.077	16.2	3.3	2.3	33	67	33	20	7	0	, 1MECH, , ,
NDTX1244-3W/Y	TXCH20	1.076	16.1	2.3	3.0	31	69	53	6	10	0	, 1HH, , ,
AOR12197-4	WR20	1.073	15.6	3.8	3.0	13	88	23	22	43	0	, , ,
CO12235-3W	SW20	1.082	17.1	2.6	1.3	50	50	7	23	17	0	, , ,
NDTX14263BC-3W	EGSS20	1.078	16.5	2.4	1.0	48	52	0	40	12	0	, , ,
TX12484-3WZC	NCPT20	1.075	15.9	2.1	1.0	40	60	26	18	15	0	, , ,
NDTX113030C-3W	TXCH20	1.085	17.6	2.6	1.0	47	53	17	20	17	0	, 1IBS, , ,
Petoskey	PUSA	1.082	17.1	3.4	1.0	0	100	47	7	37	0	, , ,
NDTX1246-5W/Y	TXCH20	1.077	16.3	1.8	3.0	77	23	3	10	3	0	, , , 1MECH
COTX16054-1Ru	EGSS20	1.069	14.9	1.7	1.0	55	45	25	5	10	0	, , ,
ATTX10333-1W/Y	EGSS20	1.093	19.2	3.0	2.7	55	45	13	13	9	0	1HH, , ,
CO11023-9W	WR20	1.076	16.1	1.8	1.0	60	40	0	0	40	0	, 1UG, , ,
Average		1.078	16.4	2.8	1.6	34	66	23	13	24	0	
L.S.D. (.05)		0.004	0.662	0.9	0.7	29	29	ns	26	ns	0	

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

<sup>1</sup>1=excellent (light color) to 5=poor (dark color)

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

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

Dalhart  
Table 1f.

Specific gravity, percent solids, chip color rating, good chip, bad chip, percentage vascular discoloration, bruise, stem end discoloration, apical bruise notes, percentage of Zebra Defect at chipping, and percentage Zebra Defect at grading of 57 entries in the Western, Southwestern Regional, and Texas Advanced Chip Selection Chip Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Gravity		Chip		% Good Chip	% Bad Chip	% Vas	% Bruise	% Stem	% Apical Bruise	Notes <sup>3</sup>
		Gravity	% Solids	Quality Rating <sup>1</sup>	Chip Color <sup>2</sup>							
NDTX14362AB-1W	TXCH20	1.077	16.3	1.5	1.0	80	20	7	7	7	0	, , ,
AC11494-6W	SW20	1.070	15.0	3.6	1.7	20	80	53	0	27	0	, , ,
TX09403-15W	WR20	1.066	14.4	2.4	1.0	49	51	3	10	34	0	, , ,
NDTX1432Y-2Y/Y	TXCH20	1.065	14.2	3.7	3.0	0	100	53	10	37	0	, , 1IBS,
NDTX12203AB-1W	TXCH20	1.072	15.3	2.5	1.0	57	43	10	13	17	0	, , , 1IBS
COTX12235-2W	TXCH20	1.069	14.8	1.9	1.0	67	33	13	17	3	0	, 2BC, ,
TX12484-2WZC	TXCH20	1.073	15.5	3.7	1.3	3	97	19	29	45	0	, , ,
NDTX13315CB-1W	EGSS20	1.074	15.7	3.8	1.3	0	100	53	10	37	0	2BC, , ,
AORTX09033-11W	TXCH20	1.079	16.6	2.4	1.0	37	63	40	3	20	0	, , 1SUG,
COTX13231-1W	NCPT20	1.068	14.7	3.8	1.3	3	97	23	47	27	0	, , ,
COTX16078-4W	EGSS20	1.070	15.0	3.8	1.5	10	90	15	45	30	0	, , ,
CO11037-5W	WR20	1.067	14.4	3.7	1.3	17	83	20	30	23	0	, , ,
TX17759-5W	EGSS20	1.073	15.6	2.7	1.3	17	83	42	28	13	0	, , ,
NDTX13280CB-3W	TXCH20	1.069	14.9	3.2	1.0	30	70	20	3	40	0	, , ,
CO10076-4W	WR20	1.070	14.9	3.6	1.3	17	83	30	10	30	0	, , 2IBS,
COTX13231-4W	NCPT20	1.068	14.7	3.3	1.7	22	78	13	32	33	0	, , ,
COTX16078-2W	EGSS20	1.071	15.1	3.4	1.5	28	72	36	0	36	0	, , ,
COTX13230-1W	EGSS20	1.071	15.1	3.1	1.3	35	65	0	17	45	0	, , ,
NDTX12135-1W	TXCH20	1.071	15.2	3.3	1.0	26	74	35	32	10	0	, , , 1IBS
CO11023-2W	WR20	1.075	15.9	4.1	2.3	0	100	63	23	7	0	, , ,
Average		1.071	15.2	3.2	1.4	26	74	27	18	26	0	
L.S.D. (.05)		0.004	0.662	0.929	0.664	29	29	ns	26	ns	0	

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

<sup>1</sup>1=excellent (light color) to 5=poor (dark color)

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

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

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Table 1g.

Chip color rating, chip color and notes for chipping out of storage  
of 57 entries in the Western, Southwestern Regional, and Texas

Clone name/ID	Trial	Chipping 6 Weeks of Storage		Chipping Recondition for 2 Weeks	
		Chip Quality Rating <sup>1</sup>	Chip Color <sup>2</sup>	Chip Quality Rating <sup>1</sup>	Chip Color <sup>2</sup>
		NDTX14247CAB-2W	EGSS20	3.7	1.7
AORTX09037-5W/Y	TXCH20	3.7	3.0	3.4	1.0
Snowden	WR20	4.6	1.3	3.1	1.0
Atlantic PUSA	PUSA	4.9	1.0	3.9	1.0
Snowden PUSA	PUSA	4.8	1.0	3.1	1.0
NDTX14247CAB-1W	EGSS20	3.6	1.0	4.7	1.0
Mackinaw	PUSA	3.9	1.0	3.5	1.0
ATX13134-3W/Y	NCPT20	3.3	3.0	3.5	1.0
MSZ063-2	PUSA	4.9	2.0	3.3	1.0
NDTX14252B-2W	EGSS20	4.7	1.0	3.1	1.3
TX17846-1W	EGSS20	3.3	1.0	2.1	1.0
AORTX09037-1W/Y	SW20	3.8	3.0	1.8	1.0
MSZ242-13	PUSA	3.5	1.0	2.2	1.0
TX09403-21W	SW20	2.8	1.0	3.5	1.0
ATTX07042-3W/Y	SW20	4.8	3.0	3.5	1.0
NDTX1482YB-1W	NCPT20	3.5	1.0	2.5	1.0
TX17734-2W/Y	EGSS20	4.8	3.0	4.7	3.0
B2869-29	PUSA	4.9	1.7	3.1	3.0
CO12293-1W	SW20	3.6	1.0	4.1	1.0
MSW474-1	PUSA	2.9	1.0	3.8	1.3
COTX16013-5W	TXCH20	1.8	1.0	4.8	1.0
Winterset	PUSA	2.8	1.0	2.5	1.0
Atlantic	WR20	4.9	1.3	1.1	1.0
NDTX1444-5W	NCPT20	2.5	1.0	4.7	3.0
CO10073-7W	WR20	2.0	1.0	4.5	3.0
AORTX09037-4W/Y	TXCH20	5.0	3.0	2.7	1.0
NDTX1244-3W/Y	TXCH20	3.0	3.0	3.6	1.0
AOR12197-4	WR20	3.6	3.0	2.3	1.0
CO12235-3W	SW20	2.4	1.0	3.7	3.0
NDTX14263BC-3W	EGSS20	2.5	1.0	2.8	1.3
TX12484-3WZC	NCPT20	3.6	1.0	1.2	1.0
NDTX113030C-3W	TXCH20	3.7	1.3	3.9	1.0
Petoskey	PUSA	2.9	1.0	3.3	1.0
NDTX1246-5W/Y	TXCH20	3.8	3.0	3.4	1.3
COTX16054-1Ru	EGSS20	3.6	1.5	4.8	1.0
ATTX10333-1W/Y	EGSS20	2.8	2.3	3.8	1.0
CO11023-9W	WR20	1.2	1.0	4.5	2.0
Average		4.1	1.7	3.7	1.0
L.S.D. (.05)		0.8	0.5	0.9	0.3

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

<sup>1</sup>1=excellent (light color) to 5=poor (dark color)

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

<sup>3</sup>BOT=Best Of Trial, Vas=vascular heat necrosis, Dark=high sugars, BSB=blackspot bruise, HH=hollow

heart, IBS=internal brownspot, SE=sugar enew, PB= pressure bruise, GH=greenheaew, Z=zebra

Clone name/ID	Trial	Chipping 6 Weeks of Storage		Chipping Recondition for 2 Weeks	
		Chip		Chip	
		Quality Rating <sup>1</sup>	Chip Color <sup>2</sup>	Quality Rating <sup>1</sup>	Chip Color <sup>2</sup>
NDTX14362AB-1W	TXCH20	3.3	2.0	1.8	1.0
AC11494-6W	SW20	4.1	1.3	4.1	1.0
TX09403-15W	WR20	3.2	1.0	1.4	1.0
NDTX1432Y-2Y/Y	TXCH20	4.5	3.0	4.5	1.0
NDTX12203AB-1W	TXCH20	3.6	1.0	2.9	1.0
COTX12235-2W	TXCH20	1.9	1.3	1.6	1.0
TX12484-2WZC	TXCH20	4.8	1.3	2.0	1.0
NDTX13315CB-1W	EGSS20	4.8	1.7	2.9	3.0
AORTX09033-11W	TXCH20	4.7	2.0	4.7	3.0
COTX13231-1W	NCPT20	4.9	1.3	1.5	1.0
COTX16078-4W	EGSS20	4.9	1.5	4.1	1.0
CO11037-5W	WR20	4.4	1.3	2.8	3.0
TX17759-5W	EGSS20	4.3	1.0	4.6	1.0
NDTX13280CB-3W	TXCH20	4.8	1.7	2.7	3.0
CO10076-4W	WR20	3.8	1.3	3.5	3.0
COTX13231-4W	NCPT20	4.9	1.0	3.4	1.3
COTX16078-2W	EGSS20	5.0	1.0	4.9	1.0
COTX13230-1W	EGSS20	3.4	1.3	2.9	1.0
NDTX12135-1W	TXCH20	3.7	1.3	2.9	1.0
CO11023-2W	WR20	4.2	1.3	4.8	1.0
Average		3.9	1.6	2.9	1.4
L.S.D. (.05)		0.8	0.5	0.9	0.3

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

<sup>1</sup>1=excellent (light color) to 5=poor (dark color)

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

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

## Western, Southwest Regional, and Texas Advanced Russet Trial, Dalhart

This trial consisted of fifty-three entries, including the check varieties Ranger Russet, Russet Burbank, Shepody, and Russet Norkotah.

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

- Vanguard Russet, COTX15271-1Ru, COTX08322-10Ru, TXA549-1Ru, COTX09022-3RuRE/Y, COTX10080-2Ru, Russet Norkotah, and AOTX95265-2ARu received high general ratings and best of trial designations, while Russet Norkotah 296, CO10087-4RU, TX13590-9Ru, Reveille Russet, Stampede Russet, POR12NCK50-1, AOR10204-3, ATX15097-1Ru, Clearwater Russet, AOR08540-1, COTX13029-2Ru/Y, Sierra Gold, COTX16217-2Ru, COTX08063-2Ru, and Russet Norkotah 223 also received a high general rating (Tables 2a and 2e).
- COTX15271-1Ru had the highest total yield, while Vanguard Russet had the highest marketable yield. COTX08322-10Ru had the highest yield of over 10 oz. tubers (Table 2a).
- CO10085-1RU had the highest yield of less than 4 oz. tubers, while A071012-4BF and Russet Burbank had the highest yield of culls/No.2 tubers (Table 2a).
- ATX13287-1Ru and ATX15099-1Ru had the highest percentage of marketable yield (Table 2b).
- CO10091-1RU had the highest percentage of less than 4 oz. tubers. ATX15097-1Ru had the highest percentage of over 10 oz. tubers, while A071012-4BF and Russet Burbank had the highest percentage of culls/No. 2 tubers (Table 2b).
- A071012-4BF, COTX08063-2Ru, CO12152-1RU, ATX08322-1Ru, and ATX13287-1Ru had the highest specific gravity (Table 2b).
- All entries were late in maturity, except COTX15123-1Ru and COTX15123-2Ru, which were early in maturity (Table 2c).
- TXA549-1Ru, TX13590-9Ru, A071012-4BF, AOR08540-1, CO11009-3RU, and COTX15169-2Ru had over 40% hollow heart, while COTX16217-2Ru had 45% internal brown spot (Table 2d).

### Comments on entries:

- COTX15271-1Ru      Oblong Russet      impressive, high tuber number+, very nice shape, nice russet, parent, BOT+
- Vanguard Russet      Oblong Russet      parent, very nice+, blocky high tuber number, BOT+
- COTX08322-10Ru      Oblong Russet      nice, many tubers, parent, BOT+

- POR12NCK50-1 Oblong Russet nice skin and shape, very nice
- TXA549-1Ru Oval Russet large, blocky, parent, BOT
- CO10087-4RU Oblong Russet parent, very nice shape, size, and skin++
- TX13590-9Ru Oblong Russet blocky+, high tuber number, nice, hollow heart+, very nice size and shape, hollow heart even in relatively small tubers, BOT
- A071012-4BF Long Russet nice shape, long+, MANY knobs+, pointed, large
- OR12133-10 Long Russet not russet skin, skinny, long, light skin, high tuber number, nice
- CO10085-1RU Oblong Russet sprouts, short, nice skin
- COTX09022-3RuRE/Y Round Russet nice, high tuber number, BOT
- ATX15008-1Ru Oblong Russet nice shape and size, high tuber number
- Reveille Russet Oblong Russet nice shape, some knobs, BOT
- ATX15025-2Ru Oblong Russet nice shape+ and skin type
- ATTX10378-3Ru/Y Long Russet nice yellow flesh, golden russet skin, nice, parent+, good shape, light russet
- Russet Norkotah 296 Long Russet long, very nice, longer than regular Russet Norkotah
- COTX08063-2Ru Long Russet bruised skin, nice shape, use as parent, high gravity, PVY resistant? skinny
- Stampede Russet Oblong Russet good shape, high tuber number, parent
- COTX10080-2Ru Oblong Russet very nice skin+, parent, nice shape+, medium, good size, BOT
- Russet Burbank Long Russet MANY knobs++, high tuber number, skinny++, stolon end rot, misshapen, very white flesh+, very long
- COTX13029-2Ru/Y Compressed Russet very round, high tuber number, heavy russet, Rocky B
- AOR10204-3 Oblong Russet knobs, nice skin, and shape+
- AOR08540-1 Long Russet nice shape and size, long, nice, skinny, many eyes
- Russet Norkotah Long Russet nice, nice shape, good skin, BOT
- Sierra Gold Round Russet nice, oval to oblong, nice flesh
- CO12152-1RU Oblong Russet enlarged lenticels, nice shape, areas of alligator skin
- ATX15097-1Ru Oblong Russet large+, very nice, very good shape
- COTX16217-2Ru Oblong Russet large
- COTX16005-1Ru Oblong Russet
- CO12378-1RU Oblong Russet many growth cracks, herbicide damage?



- Ranger Russet Long Russet long+, many eyes, deeper eyes than others, high tuber numbers, skinny, pointed
- COTX16209-1Ru Oblong Russet skinny++, nice skin, small+
- Clearwater Russet Long Russet small, nice skin, good shape
- COTX15123-1Ru Oblong Russet many smalls, a little flat, medium
- ATTX10007-1Ru Oblong Russet light skin, large, very nice shape, parent for smooth skin long
- Russet Norkotah 223 Oblong Russet nice, good skin, good shape
- Shepody Oblong White MANY knobs+, smooth skin, long, light skin
- CO11009-3RU Long Russet nice russet skin, skinny, pointed, soft stolon ends
- COTX15169-1Ru Oval Russet good russet skin, short
- ATX08322-1Ru Oval Russet
- AOTX95265-2ARu Oblong Russet large, nice+, long, BOT
- A10021-5TE Long Russet pointed, many eyes, knobs, long,
- ATX13287-1Ru Oblong Russet high gravity, parent, blocky, very nice, BOT
- Russet Norkotah 278 Oblong Russet
- COTX15123-2Ru Oblong Russet
- ATX13018-2Ru Oblong Russet
- CO10091-1RU Oblong Russet pointed
- Dal17001RuRua Oblong Russet nice skin, good shape+, pointed, DROP
- ATX15099-1Ru Oblong Russet very nice shape, few tubers, nice skin
- COTX15169-2Ru Oblong Russet angular tubers, few tubers, very small, oval, DROP+
- A07769-4 Oblong White light skin
- AOTX05043-1Ru Oblong Russet smallish, few tubers+
- COTX15123-3Ru Oblong Russet small+, alligator skin, dislike skin, DROP++

Summary:

Vanguard Russet, COTX15271-1Ru, COTX08322-10Ru, TXA549-1Ru, COTX09022-3RuRE/Y, COTX10080-2Ru, Russet Norkotah, and AOTX95265-2ARu were the best entries overall.

Disposition: [See Appendix C.](#)

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Table 2a.

Total yield, total yield of U.S. No.1, over 18 oz, under 4 oz and culls/No.2 potatoes and general rating of 53 entries in the Western, Southwestern Regional, and Texas Advanced Russet Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Total Yield cwt/a	U.S. No. 1 cwt/a			Over 18 oz cwt/a	Under 4 oz. cwt/a	Culls/ No.2 cwt/a	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
COTX15271-1Ru	TXRU20	529.6	276.8	139.1	80.4	57.3	6.7	239.0	7.0	4.7
Vanguard Russet	ADVURU20	494.9	322.7	69.4	130.9	122.5	51.2	101.6	19.4	4.8
COTX08322-10Ru	TXRU20	459.1	298.8	74.3	93.0	131.5	16.9	136.8	6.6	4.4
POR12NCK50-1	WR20	438.8	258.1	137.9	68.3	51.9	0.0	173.4	7.3	4.1
TXA549-1Ru	TXRU20	428.7	245.4	71.2	83.4	90.8	35.4	116.7	31.3	4.2
CO10087-4RU	WR20	421.3	274.4	55.7	104.6	114.1	33.6	69.1	44.2	4.4
TX13590-9Ru	TXRU20	416.5	269.2	79.5	92.6	97.2	28.5	105.5	13.3	4.4
A071012-4BF	WR20	413.8	225.6	60.4	80.4	84.8	28.4	53.1	106.8	3.5
OR12133-10	WR20	403.0	215.2	65.3	81.1	68.8	0.0	158.0	29.7	3.9
CO10085-1RU	WR20	402.4	120.8	67.1	49.0	4.7	0.0	246.2	35.4	3.5
COTX09022-3RuRE/Y	TXRU20	397.3	171.1	90.6	55.7	24.9	0.0	222.4	3.8	4.3
ATX15008-1Ru	TXRU20	395.8	173.4	71.5	64.2	37.7	0.0	205.8	16.6	3.7
Reveille Russet	ADVURU20	384.5	243.7	86.0	93.2	64.5	0.0	125.2	15.6	4.3
ATX15025-2Ru	TXRU20	382.8	168.8	69.5	42.1	57.2	0.0	207.7	6.3	3.8
ATTX10378-3Ru/Y	TXRU20	379.5	142.8	72.1	58.6	12.0	0.0	232.4	4.3	3.8
Russet Norkotah 296	TXRU20	375.0	239.6	75.8	80.1	83.7	13.9	110.3	11.3	4.5
COTX08063-2Ru	SW20	372.0	220.2	118.7	54.0	47.6	0.0	137.1	14.6	4.0
Stampede Russet	TXRU20	368.6	155.4	60.4	49.4	45.6	4.0	200.6	8.7	4.3
COTX10080-2Ru	TXRU20	360.3	189.1	67.7	71.1	50.3	20.9	139.9	10.4	4.0
Russet Burbank	WR20	357.1	175.6	65.3	76.6	33.7	0.0	85.7	95.8	3.6
COTX13029-2Ru/Y	TXRU20	356.0	214.3	81.3	54.1	78.9	3.7	138.0	0.0	4.0
AOR10204-3	WR20	354.5	232.9	81.0	65.7	86.2	0.0	96.9	24.7	4.1
AOR08540-1	WR20	352.5	195.2	80.7	77.0	37.5	0.0	137.6	19.7	4.0
Russet Norkotah	WR20	340.9	211.1	62.7	65.7	82.7	13.0	109.4	7.5	4.2
Sierra Gold	TXRU20	336.6	221.5	78.7	85.6	57.2	0.0	110.0	5.2	4.0
CO12152-1RU	SW20	334.0	115.6	43.6	47.3	24.7	0.0	200.4	18.0	3.8
ATX15097-1Ru	TXRU20	326.9	192.2	49.1	42.4	100.7	42.2	59.3	33.1	4.1
COTX16217-2Ru	TXRU20	325.8	188.1	66.6	64.5	57.0	22.2	98.1	17.4	4.0
COTX16005-1Ru	TXRU20	325.3	184.2	81.1	59.6	43.5	3.7	133.6	3.8	3.9
CO12378-1RU	SW20	322.4	82.7	61.5	18.6	2.6	0.0	180.9	58.9	3.5
Ranger Russet	WR20	316.3	191.6	47.1	89.5	54.9	0.0	107.1	17.7	3.7
COTX16209-1Ru	TXRU20	313.4	106.9	39.4	51.9	15.7	0.0	199.7	6.9	3.6
Clearwater Russet	WR20	313.3	138.0	52.3	75.7	10.1	0.0	164.3	11.0	4.1
COTX15123-1Ru	TXRU20	309.8	141.4	74.0	47.9	19.5	0.0	165.9	2.4	3.6
ATTX10007-1Ru	TXRU20	308.4	207.1	59.2	82.4	65.6	10.8	69.7	20.7	3.8
Russet Norkotah 223	TXRU20	308.1	199.8	53.5	53.7	92.6	26.1	76.7	5.5	4.0
Shepody	WR20	300.9	126.0	39.8	44.2	41.9	6.6	114.4	54.0	3.5
Average		371.0	198.3	71.6	68.5	58.2	9.9	141.3	21.5	4.0
L.S.D. (.05)		79.7	56.8	25.9	34.0	34.1	18.6	43.8	14.9	0.3

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

Dalhart  
Table 2a.

Total yield, total yield of U.S. No.1, over 18 oz, under 4 oz and culls/No.2 potatoes and general rating of 53 entries in the Western, Southwestern Regional, and Texas Advanced Russet Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Total Yield cwt/a	U.S. No. 1 cwt/a			Over 18 oz cwt/a	Under 4 oz. cwt/a	Culls/ No.2 cwt/a	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
CO11009-3RU	WR20	300.6	180.3	52.8	99.4	28.1	0.0	99.1	21.2	3.7
COTX15169-1Ru	TXRU20	300.5	164.4	53.1	74.9	36.5	0.0	127.2	8.8	3.7
ATX08322-1Ru	TXRU20	295.6	134.8	67.3	61.2	6.4	0.0	149.3	11.4	3.5
AOTX95265-2ARu	TXRU20	291.5	170.5	55.7	44.2	70.6	43.2	76.4	1.4	4.0
A10021-5TE	WR20	287.5	155.0	46.1	62.8	46.1	13.9	50.9	67.7	3.7
ATX13287-1Ru	TXRU20	284.0	206.7	68.6	60.7	77.3	3.8	68.9	4.6	3.9
Russet Norkotah 278	TXRU20	283.8	147.8	63.8	52.5	31.6	0.0	128.9	7.2	3.8
COTX15123-2Ru	TXRU20	263.7	114.8	54.5	47.4	13.0	0.0	142.3	6.6	3.6
ATX13018-2Ru	TXRU20	255.6	110.4	49.1	43.8	17.5	0.0	139.3	5.9	3.6
CO10091-1RU	WR20	254.3	58.3	31.4	26.8	0.0	0.0	193.5	2.4	3.5
Dal17001RuRua	TXRU20	235.2	84.0	38.4	29.0	16.6	0.0	142.0	9.2	3.6
ATX15099-1Ru	TXRU20	224.9	162.7	47.4	41.4	73.9	0.0	44.6	17.6	3.7
COTX15169-2Ru	TXRU20	202.1	77.3	42.2	27.1	7.9	0.0	123.1	1.7	3.3
A07769-4	WR20	184.4	124.3	45.1	58.9	20.3	0.0	57.3	2.7	3.6
AOTX05043-1Ru	TXRU20	166.1	82.8	27.0	55.8	0.0	0.0	80.8	2.4	3.5
COTX15123-3Ru	TXRU20	146.1	38.0	33.4	4.6	0.0	0.0	104.0	4.1	3.4
Average		248.5	125.8	48.5	49.4	27.9	3.8	108.0	10.9	3.6
L.S.D. (.05)		79.7	56.8	25.9	34.0	34.1	18.6	43.8	14.9	0.3

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

Dalhart  
Table 2b.

Percent by weight of U.S. No. 1, over 18 oz, under 4 oz, culls/No.2 potatoes, specific gravity, tuber type and skin type of 53 entries in the Western, Southwestern Regional, and Texas Advanced Russet Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
COTX15271-1Ru	TXRU20	51.2	25.7	15.3	10.2	1.1	46.0	1.7	1.066	14.3	Oblong	Russet
Vanguard Russet	ADVRU20	65.6	14.1	26.6	24.9	10.4	20.4	3.7	1.057	12.7	Oblong	Russet
COTX08322-10Ru	TXRU20	64.9	16.2	20.2	28.5	3.6	30.0	1.5	1.061	13.4	Oblong	Russet
POR12NCK50-1	WR20	58.7	31.5	15.5	11.7	0.0	39.6	1.6	1.072	15.4	Oblong	Russet
TXA549-1Ru	TXRU20	56.5	15.9	19.4	21.2	7.0	29.4	7.1	1.068	14.6	Oval	Russet
CO10087-4RU	WR20	64.8	12.9	24.9	27.0	7.8	16.6	10.8	1.078	16.3	Oblong	Russet
TX13590-9Ru	TXRU20	65.1	19.2	22.2	23.7	6.7	25.1	3.1	1.072	15.3	Oblong	Russet
A071012-4BF	WR20	54.8	14.6	19.7	20.5	6.6	12.7	25.9	1.081	17.0	Long	Russet
OR12133-10	WR20	52.4	16.8	19.9	15.7	0.0	40.4	7.3	1.066	14.3	Long	Russet
CO10085-1RU	WR20	29.3	16.3	12.0	1.1	0.0	62.0	8.7	1.064	13.9	Oblong	Russet
COTX09022-3RuRE	TXRU20	42.7	22.8	14.0	6.0	0.0	56.2	1.1	1.074	15.8	Round	Russet
ATX15008-1Ru	TXRU20	43.3	18.2	15.9	9.2	0.0	52.6	4.1	1.067	14.5	Oblong	Russet
Reveille Russet	ADVRU20	64.6	22.4	24.3	18.0	0.0	31.5	3.9	1.064	14.0	Oblong	Russet
ATX15025-2Ru	TXRU20	44.6	18.5	11.1	15.0	0.0	54.0	1.5	1.067	14.4	Oblong	Russet
ATTX10378-3Ru/Y	TXRU20	37.6	19.0	15.4	3.2	0.0	61.2	1.1	1.067	14.4	Long	Russet
Russet Norkotah 296	TXRU20	64.2	20.7	21.3	22.1	3.4	29.8	2.7	1.065	14.1	Long	Russet
COTX08063-2Ru	SW20	59.5	31.8	14.9	12.8	0.0	36.6	3.9	1.092	19.0	Long	Russet
Stampede Russet	TXRU20	42.3	16.3	13.8	12.3	1.0	54.4	2.2	1.056	12.5	Oblong	Russet
COTX10080-2Ru	TXRU20	52.2	19.0	19.5	13.7	5.9	38.9	3.0	1.061	13.4	Oblong	Russet
Russet Burbank	WR20	48.6	18.5	21.7	8.5	0.0	23.7	27.6	1.058	12.9	Long	Russet
COTX13029-2Ru/Y	TXRU20	60.9	23.3	14.8	22.8	1.3	37.9	0.0	1.073	15.5	Compressed	Russet
AOR10204-3	WR20	65.8	22.9	18.6	24.3	0.0	27.3	6.9	1.060	13.2	Oblong	Russet
AOR08540-1	WR20	55.5	23.0	22.0	10.5	0.0	38.8	5.7	1.071	15.2	Long	Russet
Russet Norkotah	WR20	61.5	18.7	18.6	24.3	3.2	32.9	2.4	1.060	13.2	Long	Russet
Sierra Gold	TXRU20	65.4	23.6	24.7	17.0	0.0	33.0	1.7	1.070	15.1	Round	Russet
CO12152-1RU	SW20	34.9	13.2	14.1	7.6	0.0	59.7	5.4	1.081	16.9	Oblong	Russet
ATX15097-1Ru	TXRU20	58.7	15.1	12.9	30.7	13.1	18.2	10.1	1.078	16.5	Oblong	Russet
COTX16217-2Ru	TXRU20	57.6	20.5	19.7	17.4	7.1	30.2	5.1	1.061	13.5	Oblong	Russet
COTX16005-1Ru	TXRU20	56.6	26.0	17.5	13.2	1.4	40.6	1.4	1.075	15.9	Oblong	Russet
CO12378-1RU	SW20	25.6	18.9	5.7	0.9	0.0	55.6	18.9	1.072	15.4	Oblong	Russet
Ranger Russet	WR20	61.3	16.1	30.7	14.5	0.0	33.1	5.6	1.078	16.4	Long	Russet
COTX16209-1Ru	TXRU20	33.9	12.4	16.9	4.6	0.0	64.0	2.1	1.072	15.3	Oblong	Russet
Clearwater Russet	WR20	44.1	17.7	23.2	3.2	0.0	52.3	3.6	1.070	14.9	Long	Russet
COTX15123-1Ru	TXRU20	45.0	23.9	15.1	6.0	0.0	54.2	0.8	1.071	15.1	Oblong	Russet
ATX10007-1Ru	TXRU20	66.5	19.1	25.4	22.0	3.1	22.6	7.8	1.064	14.0	Oblong	Russet
Russet Norkotah 223	TXRU20	65.8	17.1	18.3	30.4	8.1	24.2	2.0	1.060	13.2	Oblong	Russet
Shepody	WR20	40.2	13.0	13.7	13.6	1.8	38.9	19.1	1.068	14.7	Oblong	White
Average		53.0	19.3	18.4	15.4	2.5	38.5	6.0	1.069	14.8		
L.S.D. (.05)		10.0	6.5	9.2	9.6	5.0	9.8	5.3	0.005	0.9		

Dalhart  
Table 2b.

Percent by weight of U.S. No. 1, over 18 oz, under 4 oz, culls/No.2 potatoes, specific gravity, tuber type and skin type of 53 entries in the Western, Southwestern Regional, and Texas Advanced Russet Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
CO11009-3RU	WR20	59.9	17.5	32.8	9.6	0.0	32.9	7.2	1.071	15.2	Long	Russet
COTX15169-1Ru	TXRU20	55.1	17.6	24.7	12.7	0.0	41.9	3.1	1.067	14.5	Oval	Russet
ATX08322-1Ru	TXRU20	44.9	22.5	20.3	2.1	0.0	50.9	4.2	1.080	16.8	Oval	Russet
AOTX95265-2ARu	TXRU20	58.5	19.8	15.1	23.6	14.9	26.0	0.5	1.069	14.7	Oblong	Russet
A10021-5TE	WR20	51.8	16.6	21.5	13.7	4.2	18.4	25.6	1.067	14.5	Long	Russet
ATX13287-1Ru	TXRU20	72.2	23.5	20.8	27.9	1.0	24.8	1.9	1.084	17.4	Oblong	Russet
Russet Norkotah 278	TXRU20	52.7	22.6	18.8	11.3	0.0	45.1	2.2	1.058	12.9	Oblong	Russet
COTX15123-2Ru	TXRU20	43.2	20.7	17.8	4.8	0.0	54.3	2.5	1.069	14.9	Oblong	Russet
ATX13018-2Ru	TXRU20	43.2	19.3	17.3	6.6	0.0	54.5	2.3	1.055	12.3	Oblong	Russet
CO10091-1RU	WR20	22.1	13.0	9.0	0.0	0.0	77.1	0.8	1.067	14.4	Oblong	Russet
Dal17001RuRua	TXRU20	34.5	16.1	11.9	6.5	0.0	61.5	4.0	1.074	15.8	Oblong	Russet
ATX15099-1Ru	TXRU20	72.9	21.2	16.1	35.5	0.0	19.2	7.9	1.066	14.3	Oblong	Russet
COTX15169-2Ru	TXRU20	39.2	20.9	13.4	4.9	0.0	59.8	1.0	1.071	15.2	Oblong	Russet
A07769-4	WR20	66.9	25.6	32.8	8.5	0.0	31.2	1.9	1.070	15.1	Oblong	White
AOTX05043-1Ru	TXRU20	49.4	16.2	33.2	0.0	0.0	49.2	1.4	1.069	14.8	Oblong	Russet
COTX15123-3Ru	TXRU20	26.1	23.0	3.1	0.0	0.0	71.1	2.8	1.051	11.5	Oblong	Russet
Average		49.5	19.8	19.3	10.5	1.3	44.9	4.3	1.068	14.6		
L.S.D. (.05)		10.0	6.5	9.2	9.6	5.0	9.8	5.3	0.005	0.9		

Dalhart Average number of tubers per plant, tuber weight, percent stand 60 days after planting, plant characteristics, percent dead vine at vine kill, length/with, and with/thickness, length cm, Table 2c. with cm, and thickness cm of 53 entries in the Western, Southwestern Regional, and Texas Advanced Russet Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines	Length/ With	With/ Thickness	Length cm	With cm	Thickness cm
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>						
COTX15271-1Ru	TXRU20	7.5	5.1	100	2.3	4.1	5.0	3.8	0	1.60	1.19	10.3	6.4	5.4
Vanguard Russet	ADVURU20	5.2	7.1	100	2.0	4.3	4.0	3.9	10	1.73	1.08	10.4	6.0	5.6
COTX08322-10Ru	TXRU20	5.4	6.2	100	2.7	4.1	5.0	3.8	0	1.66	1.17	10.1	6.2	5.3
POR12NCK50-1	WR20	6.2	5.2	100	2.3	4.1	5.0	3.8	0	1.94	1.19	11.0	5.7	4.8
TXA549-1Ru	TXRU20	4.6	6.7	100	2.7	4.1	5.0	3.8	0	1.42	1.06	9.0	6.4	6.1
CO10087-4RU	WR20	4.0	7.9	97	2.3	4.1	5.0	3.8	0	1.91	1.13	11.2	5.9	5.2
TX13590-9Ru	TXRU20	4.8	6.3	100	2.3	3.9	5.0	3.8	0	1.46	1.13	9.4	6.4	5.7
A071012-4BF	WR20	4.2	7.1	100	2.3	4.0	5.0	3.8	0	2.00	1.07	11.7	5.9	5.5
OR12133-10	WR20	5.8	5.2	94	2.0	3.9	5.0	3.7	0	2.24	1.09	12.0	5.4	4.9
CO10085-1RU	WR20	9.0	3.3	100	1.3	3.9	5.0	3.8	0	1.56	1.16	9.9	6.3	5.5
COTX09022-3RuRE/\	TXRU20	7.1	4.1	100	2.7	4.0	5.0	3.8	0	1.31	1.18	8.8	6.7	5.7
ATX15008-1Ru	TXRU20	7.5	4.0	97	2.3	3.5	4.5	3.7	5	1.66	1.24	10.1	6.1	4.9
Reveille Russet	ADVURU20	4.7	6.1	100	1.3	3.9	5.0	3.8	0	1.73	1.16	10.6	6.2	5.3
ATX15025-2Ru	TXRU20	7.0	4.3	92	1.7	3.5	4.5	3.8	5	1.83	1.10	10.5	5.7	5.2
ATX10378-3Ru/Y	TXRU20	8.0	3.5	100	3.0	4.1	5.0	3.7	0	2.06	1.07	11.3	5.5	5.2
Russet Norkotah 296	TXRU20	4.6	6.0	100	2.0	3.8	5.0	3.8	0	1.87	1.08	11.1	5.9	5.5
COTX08063-2Ru	SW20	4.8	5.8	100	2.7	4.6	5.0	3.9	0	2.05	1.14	11.5	5.6	4.9
Stampede Russet	TXRU20	6.3	4.2	100	1.7	3.6	5.0	3.8	0	1.67	1.04	10.0	6.0	5.8
COTX10080-2Ru	TXRU20	5.0	5.6	97	1.7	3.7	5.0	3.8	0	1.79	1.11	11.3	6.3	5.7
Russet Burbank	WR20	4.3	6.1	100	3.0	3.9	5.0	3.7	0	2.57	1.13	13.6	5.3	4.7
COTX13029-2Ru/Y	TXRU20	5.1	5.4	99	1.0	3.7	5.0	3.8	0	0.98	1.10	7.4	7.5	6.9
AOR10204-3	WR20	4.1	6.6	97	3.0	3.7	5.0	3.6	0	1.75	1.14	11.0	6.3	5.5
AOR08540-1	WR20	5.3	4.9	100	1.3	3.5	5.0	3.8	0	2.20	1.10	12.2	5.5	5.1
Russet Norkotah	WR20	4.1	6.0	100	2.3	3.6	4.5	3.8	5	1.86	1.14	11.0	6.0	5.2
Sierra Gold	TXRU20	5.7	5.6	85	2.0	3.7	5.0	3.8	0	1.25	1.08	8.4	6.7	6.4
CO12152-1RU	SW20	5.7	4.3	100	2.3	3.9	5.0	3.8	0	1.64	1.24	10.3	6.3	5.1
ATX15097-1Ru	TXRU20	3.8	7.2	89	2.3	3.6	5.0	3.7	0	1.70	1.07	10.1	5.9	5.6
COTX16217-2Ru	TXRU20	6.0	5.2	79	2.5	3.4	5.0	3.5	0	1.55	1.18	9.8	6.3	5.4
COTX16005-1Ru	TXRU20	5.7	5.1	81	2.3	3.4	5.0	3.8	0	1.76	1.16	10.6	6.0	5.2
CO12378-1RU	SW20	6.0	3.9	100	2.3	4.0	5.0	3.8	0	1.63	1.21	10.1	6.2	5.1
Ranger Russet	WR20	4.6	5.4	92	2.3	3.8	5.0	3.7	0	2.31	1.10	12.6	5.5	5.0
COTX16209-1Ru	TXRU20	6.2	3.9	94	2.0	3.7	5.0	3.7	0	2.03	1.28	11.5	5.7	4.5
Clearwater Russet	WR20	5.5	4.2	100	1.7	3.8	5.0	3.8	0	1.92	1.16	11.2	5.9	5.1
COTX15123-1Ru	TXRU20	5.8	4.1	94	3.0	3.9	3.5	3.7	35	1.92	1.10	10.9	5.7	5.2
ATX10007-1Ru	TXRU20	3.7	6.3	94	2.0	3.5	5.0	3.7	0	1.72	1.13	10.5	6.1	5.4
Russet Norkotah 223	TXRU20	3.8	6.9	85	1.3	3.2	5.0	3.7	0	1.90	1.16	11.3	5.9	5.2
Shepody	WR20	4.2	5.3	100	1.7	4.1	4.0	3.8	10	1.82	1.22	11.1	6.1	5.0
Average		5.4	5.4	96	2.2	3.8	4.9	3.8	2	1.78	1.14	10.6	6.0	5.3
L.S.D. (.05)		1.3	0.8	11	0.7	0.4	0.0	ns	0	0.19	ns	0.8	0.5	0.5

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

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

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

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

Dalhart Average number of tubers per plant, tuber weight, percent stand 60 days after planting, plant characteristics, percent dead vine at vine kill, length/with, and with/thickness, length cm, with cm, and thickness cm of 53 entries in the Western, Southwestern Regional, and Texas Advanced Russet Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines	Length/ With	With/ Thickness	Length cm	With cm	Thickness cm
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>						
CO11009-3RU	WR20	3.9	5.7	100	2.0	4.1	5.0	3.8	0	2.15	1.11	11.6	5.4	4.9
COTX15169-1Ru	TXRU20	4.7	5.2	92	2.0	3.6	5.0	3.8	0	1.46	1.10	9.3	6.4	5.8
ATX08322-1Ru	TXRU20	5.0	4.3	100	2.0	3.8	5.0	3.8	0	1.58	1.17	9.8	6.2	5.3
AOTX95265-2ARu	TXRU20	3.7	5.9	100	2.0	3.6	5.0	3.8	0	1.56	1.20	9.9	6.3	5.3
A10021-5TE	WR20	4.9	6.1	69	2.7	3.2	5.0	3.7	0	2.39	1.08	13.0	5.4	5.0
ATX13287-1Ru	TXRU20	3.4	6.0	100	2.0	3.8	5.0	3.8	0	1.49	1.22	9.6	6.5	5.3
Russet Norkotah 278	TXRU20	4.2	5.0	100	2.0	3.6	4.0	3.7	10	1.70	1.20	10.9	6.4	5.3
COTX15123-2Ru	TXRU20	5.2	4.1	92	2.3	3.6	3.3	3.8	40	1.85	1.14	10.6	5.8	5.1
ATX13018-2Ru	TXRU20	4.6	4.3	94	2.3	3.5	5.0	3.6	0	1.72	1.18	10.5	6.1	5.2
CO10091-1RU	WR20	6.2	3.3	92	1.3	3.4	5.0	3.8	0	1.49	1.15	9.4	6.3	5.5
Dal17001RuRua	TXRU20	4.0	4.3	100	2.3	3.7	5.0	3.8	0	1.84	1.21	10.9	5.9	4.9
ATX15099-1Ru	TXRU20	2.9	6.2	92	2.5	3.5	5.0	3.8	0	1.73	1.07	10.2	5.9	5.5
COTX15169-2Ru	TXRU20	5.2	4.3	69	2.0	3.1	5.0	3.7	0	1.79	1.13	11.0	6.2	5.5
A07769-4	WR20	4.9	5.3	56	3.0	2.7	5.0	3.8	0	1.85	1.12	10.9	5.9	5.3
AOTX05043-1Ru	TXRU20	3.2	4.8	81	1.0	3.5	5.0	3.8	0	1.68	1.08	10.4	6.2	5.7
COTX15123-3Ru	TXRU20	4.2	3.1	82	1.3	3.0	5.0	3.5	0	1.86	1.18	10.5	5.6	4.8
Average		4.4	4.9	89	2.1	3.5	4.8	3.7	3	1.76	1.15	10.5	6.0	5.3
L.S.D. (.05)		1.3	0.8	11	0.7	0.4	0.0	ns	0	0.19	ns	0.8	0.5	0.5

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

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

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

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

Dalhart  
Table 2d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 53 entries in the Western, Southwestern Regional, and Texas Advanced Russet Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Greening <sup>11</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>11</sup>	Percent Internal Brownspot
COTX15271-1Ru	TXRU20	1.0	4.0	4.2	4.0	4.2	5.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
Vanguard Russet	ADVRU20	1.0	4.1	4.2	4.0	4.0	4.9	5.0	5.0	4.8	5.0	5.0	0	0	0	0
COTX08322-10Ru	TXRU20	1.0	4.1	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
POR12NCK50-1	WR20	1.0	4.2	4.1	4.0	4.1	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	0
TXA549-1Ru	TXRU20	1.0	3.9	4.0	4.0	4.0	4.9	5.0	5.0	4.8	5.0	5.0	73	0	0	0
CO10087-4RU	WR20	1.0	4.0	4.1	4.0	4.0	4.6	5.0	5.0	4.8	5.0	5.0	7	0	0	0
TX13590-9Ru	TXRU20	1.0	3.9	4.0	4.0	4.0	5.0	5.0	4.8	4.9	5.0	5.0	67	0	0	0
A071012-4BF	WR20	1.0	4.5	3.4	4.0	3.6	5.0	5.0	5.0	2.2	5.0	5.0	43	0	0	0
OR12133-10	WR20	1.0	4.7	1.2	3.9	1.0	5.0	5.0	5.0	4.8	5.0	5.0	0	0	0	0
CO10085-1RU	WR20	1.0	3.0	4.2	3.8	4.1	5.0	5.0	5.0	4.5	5.0	5.0	0	0	0	0
COTX09022-3RuRE/Y	TXRU20	3.5	2.7	3.0	4.0	3.3	4.9	5.0	5.0	5.0	5.0	5.0	3	0	0	0
ATX15008-1Ru	TXRU20	1.0	3.4	3.7	4.0	3.7	4.8	5.0	4.8	4.9	5.0	5.0	0	0	0	0
Reveille Russet	ADVRU20	1.0	4.0	4.1	4.0	4.0	5.0	5.0	5.0	4.8	5.0	5.0	0	0	0	0
ATX15025-2Ru	TXRU20	1.0	3.7	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	10	0	0	0
ATX10378-3Ru/Y	TXRU20	3.2	3.8	2.6	4.0	3.0	4.9	5.0	5.0	4.9	5.0	5.0	0	0	0	0
Russet Norkotah 296	TXRU20	1.0	4.7	4.5	3.8	4.5	5.0	5.0	5.0	4.8	5.0	5.0	10	0	0	0
COTX08063-2Ru	SW20	1.0	4.1	3.8	4.0	3.9	5.0	5.0	5.0	4.8	5.0	5.0	3	0	0	0
Stampede Russet	TXRU20	1.0	3.9	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
COTX10080-2Ru	TXRU20	1.0	3.9	4.2	4.0	4.2	5.0	5.0	5.0	4.9	5.0	5.0	10	0	0	0
Russet Burbank	WR20	1.0	4.9	3.6	3.8	3.6	5.0	5.0	5.0	2.2	5.0	5.0	7	0	0	0
COTX13029-2Ru/Y	TXRU20	4.0	1.0	4.7	4.0	4.7	5.0	5.0	5.0	5.0	5.0	5.0	0	0	3	0
AOR10204-3	WR20	1.0	4.0	4.5	4.0	4.5	5.0	5.0	5.0	4.6	5.0	5.0	3	0	0	3
AOR08540-1	WR20	1.0	4.5	3.9	4.0	3.9	5.0	5.0	5.0	4.8	5.0	5.0	57	0	0	0
Russet Norkotah	WR20	1.0	4.2	4.5	3.8	4.5	5.0	5.0	5.0	4.9	5.0	5.0	7	0	0	0
Sierra Gold	TXRU20	3.3	2.6	3.5	4.5	3.6	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	0
CO12152-1RU	SW20	1.0	4.0	4.0	4.0	4.2	5.0	5.0	5.0	4.7	5.0	5.0	0	0	0	0
ATX15097-1Ru	TXRU20	1.0	4.2	1.3	4.0	1.0	5.0	5.0	5.0	4.7	5.0	5.0	7	0	0	0
COTX16217-2Ru	TXRU20	1.0	4.0	3.0	4.0	3.0	4.8	5.0	5.0	4.8	5.0	5.0	0	0	0	45
COTX16005-1Ru	TXRU20	1.0	4.2	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
CO12378-1RU	SW20	1.0	3.5	4.1	4.0	4.3	3.5	5.0	5.0	4.8	5.0	5.0	3	0	0	0
Ranger Russet	WR20	1.0	4.8	3.6	3.8	3.7	5.0	5.0	5.0	4.5	5.0	5.0	13	0	0	0
COTX16209-1Ru	TXRU20	1.0	3.9	4.1	4.0	4.2	5.0	5.0	5.0	4.9	5.0	5.0	10	0	0	0
Clearwater Russet	WR20	1.0	4.0	4.2	4.0	4.2	4.3	5.0	5.0	4.9	5.0	5.0	0	0	0	0
COTX15123-1Ru	TXRU20	1.0	3.9	4.1	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	20	0	0	0
ATX10007-1Ru	TXRU20	1.0	4.3	2.0	4.0	2.0	5.0	5.0	5.0	4.6	5.0	5.0	0	0	0	0
Russet Norkotah 223	TXRU20	1.0	3.9	4.3	3.8	4.3	5.0	5.0	5.0	4.9	5.0	5.0	20	0	0	0
Shepody	WR20	1.0	4.5	1.0	4.0	1.0	5.0	5.0	5.0	2.8	5.0	5.0	20	0	3	0
Average		1.3	3.9	3.7	4.0	3.7	4.9	5.0	5.0	4.6	5.0	5.0	10.8	0	0	1
L.S.D. (.05)		0.3	0.2	0.2	0.0	0.2	0.3	0.0	0.1	0.2	0.0	ns	15.2	0.0	ns	1.5

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

<sup>6</sup> 1 to 5=none  
<sup>7</sup> 1 to 5=none  
<sup>8</sup> 1 to 5=none  
<sup>9</sup> 1 to 5=none  
<sup>10</sup> 1 to 5=none

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



Dalhart  
Table 2d.

Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 53 entries in the Western, Southwestern Regional, and Texas Advanced Russet Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Greening <sup>11</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>11</sup>	Percent Internal Brownspot
CO11009-3RU	WR20	1.0	4.9	4.2	4.0	4.2	4.9	5.0	5.0	4.8	5.0	5.0	40	0	0	0
COTX15169-1Ru	TXRU20	1.0	3.0	4.5	4.0	4.3	4.9	5.0	5.0	5.0	5.0	5.0	3	0	0	0
ATX08322-1Ru	TXRU20	1.0	3.4	3.0	4.0	3.5	5.0	5.0	4.7	4.7	5.0	5.0	0	0	0	0
AOTX95265-2ARu	TXRU20	1.0	4.2	4.2	4.0	4.2	5.0	5.0	5.0	5.0	5.0	5.0	33	0	0	0
A10021-5TE	WR20	1.0	4.8	4.0	4.0	4.0	5.0	5.0	5.0	3.5	5.0	5.0	0	0	0	0
ATX13287-1Ru	TXRU20	1.0	3.7	3.6	4.0	3.6	5.0	5.0	5.0	5.0	5.0	5.0	17	0	0	0
Russet Norkotah 278	TXRU20	1.0	3.7	4.5	3.8	4.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX15123-2Ru	TXRU20	1.0	3.7	3.9	4.0	4.0	5.0	5.0	5.0	4.9	5.0	5.0	10	0	0	0
ATX13018-2Ru	TXRU20	1.0	3.8	3.5	4.0	3.8	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	0
CO10091-1RU	WR20	1.0	2.7	4.5	4.0	4.1	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Dal17001RuRua	TXRU20	1.0	3.6	4.2	4.0	4.1	5.0	5.0	5.0	4.9	5.0	5.0	7	0	0	0
ATX15099-1Ru	TXRU20	1.0	4.3	4.0	4.0	4.0	5.0	5.0	5.0	4.6	5.0	5.0	15	0	0	0
COTX15169-2Ru	TXRU20	1.0	2.0	4.4	4.0	4.5	5.0	5.0	5.0	5.0	5.0	5.0	53	0	0	0
A07769-4	WR20	1.0	3.9	1.3	4.0	1.2	5.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
AOTX05043-1Ru	TXRU20	1.0	3.6	3.8	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX15123-3Ru	TXRU20	1.0	3.3	4.1	4.0	4.0	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	0
Average		1.0	3.7	3.9	4.0	3.9	5.0	5.0	5.0	4.8	5.0	5.0	11.4	0	0	0
L.S.D. (.05)		0.3	0.2	0.2	0.0	0.2	0.3	0.0	0.1	0.2	0.0	ns	15.2	0.0	ns	1.5

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

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

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

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

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

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

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

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

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

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

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

Dalhart Notes and general rating for all reps of 53 entries in the Western, Southwestern Regional, and Table 2e. Texas Advanced Russet Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Notes Grading	General Rating Grading
COTX15271-1Ru	TXRU20	impressive, high tuber number+, very nice shape, nice russet, BOT+, nice, parent	4.8, 4.6, 4.6
Vanguard Russet	ADVRU20	BOT+, parent, very nice+, bulky high tuber number,	4.8, 4.7, 4.8
COTX08322-10Ru	TXRU20	BOT+, nice, many tubers, , parent	4.5, 4.4, 4.3
POR12NCK50-1	WR20	nice skin and shape, , very nice, excellent rep	4, 3.8, 4.5
TXA549-1Ru	TXRU20	BOT, large, blocky, parent, ,	4.5, 3.7, 4.5
CO10087-4RU	WR20	parent, vey nice shape, size and skin++, parent,	4.6, 4.4, 4.2
TX13590-9Ru	TXRU20	blocky+, high tuber number, nice, BOT, hollow heart+, very nice size and shape, hollow heart even	4.5, 4.4, 4.2
A071012-4BF	WR20	nice shape, long+, MANY knobs+, pointed, large	3.5, 3.5, 3.4
OR12133-10	WR20	not russet skin, skinny, , long, light skin, high tuber number, nice	3.6, 4.2, 3.8
CO10085-1RU	WR20	, sprouts, short, nice skin,	3.5, 3.4, 3.6
COTX09022-3RuRE/Y	TXRU20	nice, high tuber number, BOT	4.4, 4.2, 4.4
ATX15008-1Ru	TXRU20	, , nice shape and size, high tuber number	3.7, 3.5, 4
Reveille Russet	ADVRU20	nice shape, some knobs, BOT, very nice rep	4.2, 4.2, 4.5
ATX15025-2Ru	TXRU20	, , nice shape+ and skin type	3.8, 4, 3.7
ATTX10378-3Ru/Y	TXRU20	nice yellow flesh, golden russet skin, nice, parent+, yellow flesh, good shape, light russet	3.8, 3.8, 3.8
Russet Norkotah 296	TXRU20	long, nice, very nice, longer than regular Russet Norkotah	4.4, 4.5, 4.5
COTX08063-2Ru	SW20	bruised skin, nice shape, use as parent, high gravity, PVY resistant?, skinny	4.2, 4, 3.7
Stampede Russet	TXRU20	good shape, nice shape, high tuber number, parent,	4, 4.4, 4.5
COTX10080-2Ru	TXRU20	very nice skin+, parent, nice shape+, medium, good size, BOT	4.2, 3.7, 4.2
Russet Burbank	WR20	MANY knobs++, high tuber number, skinny++, stolon end rot, misshapen, very white flesh+, very	3.6, 3.6, 3.6
COTX13029-2Ru/Y	TXRU20	, , very round, high tuber number, heavy russet, Rocky B	4.1, 3.8, 4.2
AOR10204-3	WR20	knobs, nice skin and shape+, ,	4, 4.2, 4
AOR08540-1	WR20	, nice shape and size, long, nice, skinny, many eyes	4, 4.3, 3.8
Russet Norkotah	WR20	nice, , BOT, nice shape, good skin	4.2, 3.9, 4.5
Sierra Gold	TXRU20	, , nice, oval to oblong, nice flesh	4, 4, 4
CO12152-1RU	SW20	enlarged lenticels, nice shape, areas of alligator skin,	3.8, 3.8, 3.8
ATX15097-1Ru	TXRU20	large+, very nice, very good shape,	4.2, 4, 4
COTX16217-2Ru	TXRU20	, large,	3.8, 4.2,
COTX16005-1Ru	TXRU20	, ,	4.2, 3.6, 3.8
CO12378-1RU	SW20	, , many growth cracks, herbicide damage?	3.5, 3.6, 3.5
Ranger Russet	WR20	long+, many eyes, deeper eyes than others, high tuber numbers, skinny, pointed,	3.8, 3.7, 3.6
COTX16209-1Ru	TXRU20	skinny++, nice skin, small+, ,	3.5, 3.6, 3.6
Clearwater Russet	WR20	smaller than other reps, nice skin, nice, good skin, good shape,	3.8, 4, 4.4
COTX15123-1Ru	TXRU20	many smalls, a little flat, medium,	3.6, 3.5, 3.6
ATTX10007-1Ru	TXRU20	light skin, good shape , , large, very nice shape, parent for smooth skin long	3.7, 3.7, 4
Russet Norkotah 223	TXRU20	, , nice, good skin, good shape	4.5, 3.6, 3.8
Shepody	WR20	MANY knobs+, smooth skin, long, light skin,	3.6, 3.6, 3.4

Dalhart  
Table 2e.

Notes and general rating for all reps of 53 entries in the Western, Southwestern Regional, and Texas Advanced Russet Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Notes Grading	General Rating Grading
CO11009-3RU	WR20	nice russet skin, skinny, pointed, soft stolon ends,	3.7, 3.7, 3.7
COTX15169-1Ru	TXRU20	, , good russet skin, short	3.7, 3.6, 3.8
ATX08322-1Ru	TXRU20	, ,	3.5, 3.5, 3.6
AOTX95265-2ARu	TXRU20	, large, nice+, long, BOT	4, 3.8, 4.2
A10021-5TE	WR20	, pointed, many eyes, knobs, long,	3.6, 3.6, 3.8
ATX13287-1Ru	TXRU20	high gravity, parent, bulky, very nice, bulky, BOT	3.8, 3.8, 4
Russet Norkotah 278	TXRU20	, ,	3.7, 4, 3.8
COTX15123-2Ru	TXRU20	, ,	3.6, 3.6, 3.5
ATX13018-2Ru	TXRU20	, ,	3.7, 3.5, 3.7
CO10091-1RU	WR20	, , pointed	3.4, 3.5, 3.6
Dal17001RuRua	TXRU20	nice skin, good shape+, drop, pointed,	3.7, 3.4, 3.7
ATX15099-1Ru	TXRU20	very nice shape, few tubers, good shape, nice skin,	3.7, 3.7,
COTX15169-2Ru	TXRU20	drop+, angular tubers, few tubers, very small, oval	3.3, 3.3, 3.3
A07769-4	WR20	light skin, ,	3.8, 3.3, 3.6
AOTX05043-1Ru	TXRU20	smallish, few tubers+, ,	3.4, 3.5, 3.5
COTX15123-3Ru	TXRU20	small+, drop++, alligator skin, dislike skin,	3.5, 3.3, 3.3

## Western Regional and Texas Advanced Selection Red/Specialty Trial, Dalhart

This trial consisted of seventy-four entries, including the check varieties Red LaSoda, Chieftain, Modoc, Purple Majesty, Banana, and Yukon Gold.

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

- NDTX081451CBs-1Y/Y, COTX15083-1R, COTX08365F-3P/P, TX17755-2P splash, Sierra Rose, COTX10118-4Wpe/Y, and COTX10138-15Wpe/Y had a high general rating and best of trial designation, while Paroli, TX17797-11Y/Y, NDTX4784-7R, ATTX07230-4Yre/Y, ATTX05175s-1R/Y, AORTX11913-3Wre, TX17763-2Y/Y, TX17713-2W, NDTX14156-3P, TX17802-5R, Yukon Gold, TX17805-8R/R, TX17805-1RWpinto/R, NDTX14156-2RWpinto/Y, TX17788F-4R/R, Purple Majesty, NDTX059759-3R/Y Pinto, TX17742-23P/P, TX17742-19R/R, and COTX16078-9PWpinto/Y also had high general ratings (Table 3a and 3e).
- NDTX081451CBs-1Y/Y had the highest total, marketable, and yield of 4-6 oz. tubers. AORTX11913-3Wre and TX17765-1R/Y had the highest yield of less than 4 oz. tubers (Table 3b).
- Red LaSoda, Chieftain, and TX14646-1RWpinto/Y had the highest percentage of marketable yield, while COTX16078-9PWpinto/Y, ATTX05175s-1R/Y, TX17742-22P/P, COTX15111-3R, COTX16212-2Y/Y, CO11266-1W/Y, and POR14PG22-3 had the highest percentage of less than 4 oz. tubers (Table 3b).
- TX17797-11Y/Y, CO10064-1W/Y, and CO10098-5W/Y had the highest specific gravity (Table 3b).
- TX17797-11Y/Y and TX17765-1R/Y had the highest average number of tubers per plant (Table 3c).
- All the entries were late in maturity, except for ATX11549-1P/Y, COTX04193s-2R/Y, TX17815-1P/P, Purple Majesty, NDTX4784-7R, ATX06264s-4R/Y, COTX10012-1Wrdspl/Y, and TX17713-2W, which were early in maturity (Table 3c).
- Red LaSoda had the deepest eyes (Table 3d).
- TX17815-4P/P, COTX04050s-1P/P, NDTX091886-3P/P, TX17815-1P/P, Purple Majesty, and COTX08365F-3P/P had the darkest purple flesh. CO11266-1W/Y, COTX10118-4Wpe/Y, ATTX05175s-1R/Y, COTX10012-1Wrdspl/Y, CO11250-1W/Y, ATTX98444s-16R/Y, Paroli, ATX06264s-4R/Y, TX17773-3R/Y CO10098-5W/Y, COTX16212-2Y/Y, TX17765-1R/Y, ATTX10265-4R/Y, and COTX04193s-2R/Y had very dark yellow flesh. Unica had 40% vascular discoloration, while ATTX07230-4Yre/Y and Yukon Gold had high percentages of internal brown spot (Table 3d).

Comments on entries:

- TX17734-1Y/Y Long Yellow very smooth, oblong, nice, shiny, beautiful smooth skin+, very nice flesh, lemon yellow flesh, parent, FC=3.5
- COTX15182-2Ru Long Russet soft stolon ends, fingerling russet, parent, cross with fingerlings, FC=1.0
- TX17788F-4R/R Long Red fingerling, light red flesh, nice, fingerling, FC=2.3
- COTX08365F-3P/P Very Long Purple pigmentation spots around the edges, fingerling, BOT, FC=4.3
- ATX11684F-2W/Y Long White fingerling, not great but better than Banana, yellow skin, yellow flesh, FC=3.0
- PORTX03PG25-2R/R Long Red fingerling, FC=4.2
- Banana Long White many knobs, few tubers, FC=3.5
- TX17765-1R/Y Compressed Red high tuber number+, uniform size and shape+, soft red, very round, yellow flesh is very intense, FC=4.5
- TX17755-2P splash Oblong Purple Splash very nice, shiny, high tuber number+, very unique pattern, amethyst purple splash+, a little flat, FC=1.0
- Purple Majesty Oblong Purple some skin netting+, silver scurf? purple marble flesh++, very high tuber number+, buff skin, nice, FC=4.5
- ATX11586-2R/Y Oblong Red oblong, uniform size and shape, shiny, high tuber number, nice, FC=3.5
- TX17742-19R/R Oval Red intense red flesh, teardrops, white and red flesh, high tuber number, FC=2.0
- NDTX14156-1R/Y Round Red flat, nonuniform size/shape, intense red skin, flat, FC=1.0
- NDTX091886-3P/P Round Purple intense purple flesh, grey skin, very high tuber number, skin has some netting, it chipped well with nice vibrant color, FC=4.5
- TX17805-8R/R Oblong Red very dark skin, almost maroon+, pink flesh, nice, marble red pattern, very high

- ATTX11633-1RYpinto/Y Compressed Red Pinto

tuber number, uniform size and shape, FC=3.5

compressed, interesting pinto pattern, small, round, uniform yellow flesh, pomme de terre, apples, very round, deep bud end, some heterogeneity in skin intensity, uniform size and shape, deep eyes, deep bud end, not uniform pinto pattern, some lighter and darker red, parent, FC=3.6
- TX17805-10PYpinto/Y Round Purple Pinto

only parent, unique skin and flesh pattern, the flesh is yellow and red, FC=3.5
- COTX16078-9PWpinto/Y Round Purple Pinto

attached dry stolons, nice shape, unique pattern, parent, pink-red flesh even under white skin, pinto white, red skin, FC=3.5
- NDTX092237C-2P/W Oval Purple

very large, some rotten, white flesh with purple vascular wide ring++, FC=1.0
- TX17805-1RWpinto/R Round Red Pinto

yellow and red flesh, interesting flesh pattern, parent, a little pointed, buff skin, very dark red, fun flesh pattern, FC=3.8
- Sierra Rose Round Red

parent, silver scurf? very nice, BOT+, FC=3.5
- TX17805-12R/R Round Red

unique skin color, dark red almost maroon, parent, flesh looks like red marbled meat, FC=4.0
- TX17742-23P/P Oblong Purple

light purple and white flesh, nice, shiny, FC=3.5
- TX17808-2R/Y Round Red

flesh combined yellow and pink+, flat, dislike flesh, DROP++, FC=3.5
- ATX02263-1R/Y Oval Red

shiny, pointed, dislike skin, FC=3.2
- ATX11549-1P/Y Round Purple

high tuber number, nice yellow flesh+, FC=3.5
- ATTX10265-4R/Y Round Red

shiny, very intense yellow flesh+, smooth skin, a little flat+, 2/10 had internal rot, some sticky stolons, high tuber number,

• TX17750-1R/R	Oblong Red	uniform size and shape, nice skin-flesh combination, FC=4.2
• Unica	Oval Red	ugly++, very light flesh+, ugly skin, dislike flesh, DROP++, FC=1.0
• COTX04193s-2R/Y	Round Red	many knobs, sprouting, very bad shape+, pointed, misshapen, rose skin, FC=2.0
• TX17750-8R/R	Long Red	nice, shiny, very smooth, FC=4.2
• NDTX14156-2RWpinto/Y	Oval Red Pinto	very light pink flesh, parent, oblong to long, looks like a sweet potato, white and red flesh, FC=1.8
• NDTX059759-3R/Y Pinto	Oval Red Pinto	river stone, most are pinto, some are completely red, selected only pinto, FC=3.6
• TX14646-1RWpinto/Y	Round Red Pinto	smooth skin, nice, a little flat, some pink in yellow flesh, FC=3.7
• TX17815-1P/P	Long Purple	yellow-red skin pinto, large, yellow-red flesh, Tissue culture as parent only+, ugly flesh, FC=3.0
• Red LaSoda	Round Red	very dark flesh, FC=4.5
• COTX15083-1R	Round Red	big, a little flat, high tuber number, very large, deep eyes, deep bud end, FC=1.0
• COTX15111-1R	Compressed Red	very uniform size and shape, intense skin color+, high tuber number+, enter in TC, produce minitubers, small-medium tuber, uniform size and shape, very round, snow-white flesh, very nice, BOT++, FC=1.0
• NDTX14156-3P	Oblong Purple	nice shape and skin color, very round, uniform size and shape, FC=1.0
• NDTX071258B-1R	Compressed Red	very flat, River Stone, promote, white flesh with medium purple sections, very smooth, shiny, FC=1.0
		dark red eyes+, deep eyes, zipper eyes, some skin color variation, very high tuber number, small, nice, FC= 1.0

- A08112-7R Round Red some skin netting, some variation in skin color, few eyes, good shape, high tuber number, FC=1.0
- Chieftain Round Red large+, IBS, FC=1.0
- NDTX4784-7R Compressed Red very nice, check historical data, check storage and dormancy, produce good seed, promote it, very good, parent, nice, FC=1.0
- NDTX12248Y-1R Compressed Red nice, shiny, very round, FC=1.0
- TX17733-1R Oblong Red red purplish skin, oblong, unique skin color, the flesh is mainly white but with some pink tint, FC=1.1
- TX17802-5R Round Red uniform size and shape, medium-small, nice shape and skin color, FC=1.0
- Modoc Round Red very few tubers, few eyes, FC=1.0
- TX17797-11Y/Y Compressed Yellow very nice, round, high tuber number+, yellow market, FC=2.6
- ATX06264s-4R/Y Round Red nice skin, size, shape, and color, some skin color variation between tubers, a little flat, FC=4.0
- TX17773-3R/Y Oval Red nice intense yellow flesh, nice flesh color, oval to oblong, some tear shape, a little flat, shiny skin, FC=4.0
- TX17714-4R Round Red teardrop shape, FC=1.0
- ATTX05175s-1R/Y Round Red uniform size and shape, all small+, very nice, uniform size and shape, FC=4.2
- TX17742-22P/P Round Purple dislike flesh, light purple and not uniform, nice, shiny, uniform size and shape, FC=3.5
- COTX04050s-1P/P Round Purple careful! mixed white and purple flesh 50%, nice, grey skin, FC=4.8
- ATTX98444s-16R/Y Round Red small, FC=4.1



- TX17815-4P/P Long Purple soft stolon ends+, use as parent and then drop, very intense purple flesh++, not a very good fingerling, nice, FC=4.5
- COTX15111-3R Round Red few tubers, very small, very round, nice, very nice intense skin, white flesh, very intense skin, FC=1.0
- COTX16212-2Y/Y Round Yellow small yellow tubers, similar to 175s, beautiful flesh, nice, FC=4.6
- NDTX081451CBs-1Y/Y Oval Yellow impressive high yield, parent, small-medium tubers, internal issues in large tubers, send to CA, shiny, smooth, tissue culture, parent, impressive high tuber number, BOT+, FC=3.5
- Paroli Round White very large, intense yellow flesh, high tuber number, buttery, soft cut, impressive high yield, nonuniform shape (small are oval, large are oblong) and size, noticeable stolon attachment especially in larger tubers, FC=4.1
- AORTX11913-3Wre Round White Red Eye unique pattern+, red eyes and eye shadow, uniform size and shape, high tuber number, nice, FC=1.0
- ATTX07230-4Yre/Y Round Yellow Red Eye high tuber number+, IBS, parent for yield, tuber number and shape, red eyes and shadow, very round, FC=2.9
- COTX10118-4Wpe/Y Round White Purple Eye very high tuber number, nice, PVP, amethyst skin, nice, intense yellow flesh, yellow market, uniform size and shape, relatively small, BOT, FC=4.3
- TX17763-2Y/Y Oval Yellow smooth, yellow skin, oblong, shallow eyes, shiny, dark lemon yellow flesh, send to CA, smooth skin, FC=3.6
- CO11250-1W/Y Oval White pink eyes, buff skin, nice yellow flesh, FC=4.1

- Yukon Gold                      Round White                      very large, lots of knobs, smooth skin, high yield, FC=3.3
- CO11266-1W/Y                      Oval White                      small, buff skin, pink eyes, FC=4.4
- POR14PG22-3                      Round White                      very high tuber number+, uniform size and shape, shiny, all smalls, FC=2.4
- COTX10138-15Wpe/Y                      Compressed White Purple Eye                      unique, dark purple eyes and eye shadow, very round, uniform size and shape, many potatoes do not have the dark purple pattern but seem to have the same shape and overall tuber type, BOT, FC=3.5
- Tacna                      Round White                      it looks much better than in the past+, no heat sprouts or other major issues, knobs, FC=1.0
- COTX10012-1Wrdspl/Y                      Round White Red Splash                      buff skin+, dislike skin texture, FC=4.2
- CO10064-1W/Y                      Round White                      small, buff skin+, 10% ZC, FC=3.0
- TX17713-2W                      Compressed White                      it was -2R, we changed it to -2W, CHIP - it has high gravity-, FC=1.6
- CO10098-5W/Y                      Oval White                      very intense yellow flesh, FC=4.8

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

### Summary:

#### *Fingerling*

COTX08365F-3P/P had a high general rating and a best of trial designation. TX17788F-4R/R had a high general rating. TX17734-1Y/Y had the highest yield.

#### *Red Yellow Flesh*

TX17755-2Psplash and Sierra Rose had high general ratings and best of trial designations. TX17805-8R/R, TX17805-1RWpinto/R, NDTX14156-2RWpinto/Y, Purple Majesty, NDTX059759-3R/Y Pinto, TX17742-23P/P, TX17742-19R/R, and COTX16078-9PWpinto/Y had high general ratings. TX17765-1R/Y and TX17755-2Psplash had the highest total yield.

#### *Red White Flesh*

COTX15083-1R had a high general rating, a best of trial designation, and the second-highest total yield. NDTX4784-7R, NDTX14156-3P, and TX17802-5R also had a high general rating.

#### *Small Potatoes*

TX17797-11Y/Y had acceptable yield and general appearance. ATTX05175s-1R/Y also had a high general rating.

*White Skin Yellow Flesh*

NDTX081451CBs-1Y/Y had a high general rating, a best of trial designation, and the highest total yield. COTX10118-4Wpe/Y and COTX10138-15Wpe/Y had a high general rating and a best of trial designation. Paroli, ATTX07230-4Yre/Y, AORTX11913-3Wre, TX17763-2Y/Y, TX17713-2W, and Yukon Gold, also had high general ratings.

Disposition: [See Appendix C.](#)

Dalhart  
Table 3a.

Total yield, total yield of U.S. No.1, over 18 oz, under 4 oz and culls/No.2 potatoes and general rating of 74 entries in the Western, Southwest Regional, and Texas Advanced Red/Specialty Selection Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Total Yield cwt/a	U.S. No. 1 cwt/a			Over 18 oz cwt/a	Under 4 oz. cwt/a	Culls/ No.2 cwt/a	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
TX17734F-1Y/Y	TXFing20	424.6	104.6	70.0	34.6	0.0	0.0	313.1	6.9	3.8
COTX15182F-2Ru	TXFing20	251.7	137.3	96.5	40.7	0.0	0.0	111.6	2.7	3.8
TX17788F-4R/R	TXFing20	247.8	80.2	54.9	25.3	0.0	0.0	157.4	10.2	4.1
COTX08365F-3P/P	TXFing20	195.1	91.7	58.7	32.9	0.0	0.0	99.0	4.4	4.0
ATX11684F-2W/Y	TXR/Y20	138.2	51.7	33.9	17.8	0.0	0.0	70.9	15.6	3.6
PORTX03PG25-2R/R	TXFing20	126.9	25.2	25.2	0.0	0.0	0.0	95.0	6.7	3.7
Banana	TXFing20	54.8	0.0	0.0	0.0	0.0	0.0	25.2	29.6	2.5
TX17765-1R/Y	TXR/Y20	481.8	109.1	74.0	35.1	0.0	0.0	372.8	0.0	3.9
TX17755-2Psplash	TXR/Y20	481.4	195.8	96.7	61.2	38.0	2.7	264.2	18.6	4.3
Purple Majesty	TXR/Y20	457.9	101.0	68.3	32.6	0.0	0.0	350.2	6.7	4.1
ATX11586-2R/Y	TXR/Y20	444.9	109.7	76.3	33.4	0.0	0.0	327.9	7.3	3.8
TX17742-19R/R	TXR/Y20	430.6	109.6	85.1	24.5	0.0	0.0	318.0	3.0	4.0
NDTX14156-1R/Y	TXR/Y20	410.7	181.3	104.2	77.2	0.0	0.0	225.0	4.4	3.6
NDTX091886-3P/P	TXR/Y20	404.2	146.4	104.8	41.6	0.0	0.0	256.7	1.1	3.9
TX17805-8R/R	TXR/Y20	402.4	154.4	109.5	44.8	0.0	0.0	244.9	3.1	4.3
ATTX11633-1RYpinto/Y	TXR/Y20	394.4	86.2	86.2	0.0	0.0	0.0	306.7	1.5	3.6
TX17805-10PYpinto/Y	TXR/Y20	363.1	162.9	98.6	28.6	35.7	0.0	197.7	2.5	3.7
COTX16078-9PWpinto/Y	TXR/Y20	361.5	46.2	46.2	0.0	0.0	0.0	310.7	4.6	4.0
NDTX092237C-2P/W	TXR/Y20	361.2	215.4	78.5	67.0	69.9	3.4	118.4	24.1	3.9
TX17805-1RWpinto/R	TXR/Y20	359.9	131.1	81.2	46.9	3.0	0.0	221.7	7.1	4.2
Sierra Rose	TXR/Y20	355.5	210.9	89.7	55.2	66.0	0.0	136.0	8.5	4.3
TX17805-12R/R	TXR/Y20	337.2	201.3	88.3	67.7	45.3	0.0	119.7	16.2	3.9
TX17742-23P/P	TXR/Y20	331.3	132.2	85.1	47.1	0.0	0.0	197.8	1.2	4.0
TX17808-2R/Y	TXR/Y20	328.1	222.7	78.2	63.9	80.5	0.0	101.3	4.1	3.8
ATX02263-1R/Y	TXR/Y20	319.7	66.3	47.3	19.1	0.0	0.0	247.4	5.9	3.6
ATX11549-1P/Y	TXR/Y20	306.9	142.8	85.1	51.4	6.3	0.0	153.4	10.7	3.7
ATTX10265-4R/Y	TXR/Y20	304.0	43.8	43.8	0.0	0.0	0.0	241.1	19.1	3.8
TX17750-1R/R	TXR/Y20	291.2	186.5	77.6	81.6	27.3	0.0	81.8	22.9	3.4
Unica	TXR/Y20	279.3	65.0	56.3	8.7	0.0	0.0	140.5	73.9	3.4
COTX04193s-2R/Y	TXR/Y20	242.5	46.7	46.7	0.0	0.0	0.0	188.3	7.5	3.9
TX17750-8R/R	TXR/Y20	240.7	148.0	58.8	41.2	48.0	0.0	85.1	7.5	3.7
NDTX14156-2RWpinto/Y	TXR/Y20	231.5	58.4	44.4	14.0	0.0	0.0	171.6	1.5	4.1
NDTX059759-3R/Y Pinto	TXR/Y20	220.5	110.7	63.6	34.9	12.2	0.0	104.5	5.3	4.1
TX14646-1RWpinto/Y	TXR/Y20	201.9	146.9	45.1	43.6	58.1	0.0	51.6	3.5	3.6
TX17815-1P/P	TXR/Y20	116.9	24.0	18.5	5.5	0.0	0.0	87.4	5.5	3.5
Average		311.4	115.6	67.9	33.7	14.0	0.2	185.6	10.1	3.8
L.S.D. (.05)		86.8	52.4	28.8	29.9	22.2	4.2	66.0	13.4	0.2

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

Dalhart  
Table 3a.

Total yield, total yield of U.S. No.1, over 18 oz, under 4 oz and culls/No.2 potatoes and general rating of 74 entries in the Western, Southwest Regional, and Texas Advanced Red/Specialty Selection Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Total Yield cwt/a	U.S. No. 1 cwt/a			Over 18 oz cwt/a	Under 4 oz cwt/a	Culls/ No.2 cwt/a	General Rating <sup>1</sup> Grading	
			Total Yield	4-6 oz	6-10 oz					10-18 oz
Red LaSoda	TXRed20	482.6	364.5	77.9	158.0	128.6	23.8	67.4	26.8	3.4
COTX15083-1R	TXRed20	462.0	156.5	127.4	29.1	0.0	0.0	304.1	1.4	4.5
COTX15111-1R	TXRed20	436.1	182.8	96.8	86.0	0.0	0.0	253.3	0.0	3.9
NDTX14156-3P	TXRed20	368.6	126.4	89.2	29.7	7.5	0.0	230.9	11.3	4.1
NDTX071258B-1R	TXRed20	361.8	51.1	51.1	0.0	0.0	0.0	306.3	4.4	3.8
A08112-7R	TXRed20	360.7	56.1	52.3	3.8	0.0	0.0	303.4	1.2	3.7
Chieftain	TXRed20	340.3	245.3	94.6	83.9	66.8	3.5	88.0	3.5	3.6
NDTX4784-7R	TXRed20	308.6	167.2	91.5	38.4	37.2	3.5	134.4	3.5	4.2
NDTX12248Y-1R	TXRed20	305.2	157.1	75.3	58.0	23.8	0.0	148.1	0.0	3.8
TX17733-1R	TXRed20	253.8	98.2	71.4	26.8	0.0	0.0	151.9	3.7	3.7
TX17802-5R	TXRed20	251.0	47.4	39.7	7.8	0.0	0.0	201.8	1.8	4.1
Modoc	TXRed20	162.2	108.2	52.4	33.9	22.0	0.0	51.7	2.3	3.7
TX17797-11Y/Y	TXSM20	545.0	103.6	72.3	31.3	0.0	0.0	427.5	13.9	4.4
ATX06264s-4R/Y	TXSM20	400.5	105.1	69.9	35.2	0.0	0.0	290.7	4.7	3.7
TX17773-3R/Y	TXSM20	339.5	59.5	56.1	3.4	0.0	0.0	265.4	14.6	3.5
TX17714-4R	TXSM20	327.4	73.7	59.0	14.6	0.0	0.0	248.7	5.0	3.5
ATTX05175s-1R/Y	TXSM20	318.6	29.7	29.7	0.0	0.0	0.0	288.3	0.6	4.1
TX17742-22P/P	TXSM20	307.5	29.7	29.7	0.0	0.0	0.0	277.7	0.0	3.8
COTX04050s-1P/P	TXSM20	289.8	62.4	61.0	1.4	0.0	0.0	227.4	0.0	3.9
ATTX98444s-16R/Y	TXSM20	215.7	32.0	32.0	0.0	0.0	0.0	170.4	13.3	3.8
TX17815-4P/P	TXSM20	200.7	60.2	47.3	13.0	0.0	0.0	137.6	2.9	3.4
COTX15111-3R	TXSM20	154.4	7.2	7.2	0.0	0.0	0.0	147.2	0.0	3.7
COTX16212-2Y/Y	TXSM20	152.5	6.7	6.7	0.0	0.0	0.0	145.5	0.3	3.7
NDTX081451CBs-1Y/Y	TXW/Y20	686.2	404.5	195.8	112.7	95.9	0.0	276.7	5.0	4.7
Paroli	TXW/Y20	598.3	253.5	139.3	90.1	24.1	0.0	291.8	53.1	4.6
AORTX11913-3Wre	TXW/Y20	538.1	150.2	85.9	54.3	10.1	0.0	372.8	15.1	4.1
ATTX07230-4Yre/Y	TXW/Y20	531.1	250.0	124.8	88.2	37.1	0.0	263.1	18.0	4.2
COTX10118-4Wpe/Y	TXW/Y20	447.5	111.0	61.9	44.2	4.9	0.0	330.4	6.1	4.0
TX17763-2Y/Y	TXW/Y20	443.1	209.4	110.7	63.9	34.8	0.0	229.7	4.0	4.1
CO11250-1W/Y	TXW/Y20	433.3	108.3	76.0	26.7	5.6	0.0	319.7	5.3	3.6
Yukon Gold	TXW/Y20	397.6	264.3	87.5	96.1	80.7	7.8	80.4	45.1	4.0
CO11266-1W/Y	TXW/Y20	346.7	24.7	24.7	0.0	0.0	0.0	320.4	1.5	3.6
POR14PG22-3	TXW/Y20	341.2	9.9	9.9	0.0	0.0	0.0	331.3	0.0	3.8
COTX10138-15Wpe/Y	TXW/Y20	335.9	87.9	78.5	9.3	0.0	0.0	246.6	1.4	4.1
Tacna	TXW/Y20	329.0	187.1	81.2	62.7	43.2	0.0	115.8	26.1	3.5
COTX10012-1Wrdspl/Y	TXW/Y20	324.4	110.3	86.5	20.4	3.4	0.0	202.9	11.3	3.7
CO10064-1W/Y	TXW/Y20	315.3	19.2	19.2	0.0	0.0	0.0	289.0	7.0	3.7
TX17713-2W	TXW/Y20	272.3	48.1	48.1	0.0	0.0	0.0	224.2	0.0	4.1
CO10098-5W/Y	TXW/Y20	234.6	15.3	15.3	0.0	0.0	0.0	178.9	40.4	3.4
Average		362.5	122.2	69.5	35.8	16.9	1.0	230.8	8.5	3.9
L.S.D. (.05)		86.8	52.4	28.8	29.9	22.2	4.2	66.0	13.4	0.2

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

Dalhart  
Table 3b.

Percent by weight of U.S. No. 1, over 18 oz, under 4 oz, culls/No.2 potatoes, specific gravity, tuber type and skin type of 74 entries in the Western, Southwest Regional, and Texas Advanced Red/Specialty Selection Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/ No. 2				
TX17734F-1Y/Y	TXFing20	24.4	16.3	8.0	0.0	0.0	73.9	1.7	1.059	13.0	Long	Yellow
COTX15182F-2Ru	TXFing20	48.5	36.0	12.5	0.0	0.0	50.2	1.4	1.070	15.0	Long	Russet
TX17788F-4R/R	TXFing20	32.1	21.9	10.2	0.0	0.0	63.7	4.1	1.069	14.7	Long	Red
COTX08365F-3P/P	TXFing20	42.4	28.5	13.8	0.0	0.0	54.9	2.7	1.056	12.6	Very Long	Purple
ATX11684F-2W/Y	TXR/Y20	37.4	24.5	12.9	0.0	0.0	51.3	11.3	1.068	14.6	Long	White
PORTX03PG25-2R/R	TXFing20	20.8	20.8	0.0	0.0	0.0	75.1	4.1	1.055	12.3	Long	Red
Banana	TXFing20	0.0	0.0	0.0	0.0	0.0	48.8	51.2	1.061	13.3	Long	White
TX17765-1R/Y	TXR/Y20	22.0	14.8	7.2	0.0	0.0	78.0	0.0	1.061	13.5	Compressed	Red
TX17755-2Psplash	TXR/Y20	41.1	21.1	12.6	7.4	0.6	54.5	3.8	1.057	12.8	Oblong	Purple Splash
Purple Majesty	TXR/Y20	21.6	14.9	6.7	0.0	0.0	76.9	1.5	1.070	15.0	Oblong	Purple
ATX11586-2R/Y	TXR/Y20	24.9	17.2	7.7	0.0	0.0	73.5	1.6	1.068	14.7	Oblong	Red
TX17742-19R/R	TXR/Y20	25.5	19.8	5.7	0.0	0.0	73.9	0.7	1.067	14.5	Oval	Red
NDTX14156-1R/Y	TXR/Y20	44.0	25.3	18.6	0.0	0.0	54.9	1.1	1.055	12.3	Round	Red
NDTX091886-3P/P	TXR/Y20	35.3	25.2	10.1	0.0	0.0	64.5	0.2	1.078	16.4	Round	Purple
TX17805-8R/R	TXR/Y20	50.9	36.3	14.6	0.0	0.0	47.9	1.2	1.062	13.6	Oblong	Red
ATX11633-1RYpinto/Y	TXR/Y20	21.9	21.9	0.0	0.0	0.0	77.7	0.3	1.066	14.3	Compressed	Red Pinto
TX17805-10PYpinto/Y	TXR/Y20	44.9	27.1	7.9	9.9	0.0	54.4	0.7	1.072	15.3	Round	Purple Pinto
COTX16078-9PWpinto/Y	TXR/Y20	12.8	12.8	0.0	0.0	0.0	85.9	1.3	1.061	13.4	Round	Purple Pinto
NDTX092237C-2P/W	TXR/Y20	59.6	22.3	18.7	18.6	0.9	32.8	6.7	1.075	16.0	Oval	Purple
TX17805-1RWpinto/R	TXR/Y20	35.9	22.4	12.7	0.8	0.0	62.0	2.1	1.062	13.6	Round	Red Pinto
Sierra Rose	TXR/Y20	59.2	25.3	16.3	17.7	0.0	38.4	2.4	1.066	14.3	Round	Red
TX17805-12R/R	TXR/Y20	59.6	26.4	19.8	13.4	0.0	35.8	4.6	1.065	14.1	Round	Red
TX17742-23P/P	TXR/Y20	40.5	26.3	14.2	0.0	0.0	59.2	0.3	1.067	14.5	Oblong	Purple
TX17808-2R/Y	TXR/Y20	67.7	23.5	19.3	24.8	0.0	31.0	1.3	1.069	14.8	Round	Red
ATX02263-1R/Y	TXR/Y20	20.8	15.2	5.7	0.0	0.0	77.4	1.8	1.063	13.8	Oval	Red
ATX11549-1P/Y	TXR/Y20	46.0	27.8	16.2	2.0	0.0	50.5	3.5	1.062	13.6	Round	Purple
ATX10265-4R/Y	TXR/Y20	14.5	14.5	0.0	0.0	0.0	79.8	5.7	1.050	11.4	Round	Red
TX17750-1R/R	TXR/Y20	65.1	27.0	28.2	9.8	0.0	27.1	7.8	1.057	12.7	Oblong	Red
Unica	TXR/Y20	23.2	20.1	3.1	0.0	0.0	50.3	26.5	1.056	12.5	Oval	Red
COTX04193s-2R/Y	TXR/Y20	19.8	19.8	0.0	0.0	0.0	77.0	3.2	1.056	12.5	Round	Red
TX17750-8R/R	TXR/Y20	62.2	24.7	17.0	20.6	0.0	34.5	3.3	1.059	13.0	Long	Red
NDTX14156-2RWpinto/Y	TXR/Y20	25.4	19.3	6.2	0.0	0.0	73.9	0.7	1.072	15.4	Oval	Red Pinto
NDTX059759-3R/Y Pinto	TXR/Y20	50.3	28.7	15.8	5.7	0.0	47.3	2.4	1.063	13.7	Oval	Red Pinto
TX14646-1RWpinto/Y	TXR/Y20	73.2	23.8	19.6	29.8	0.0	25.0	1.9	1.059	13.1	Round	Red Pinto
TX17815-1P/P	TXR/Y20	20.6	15.7	4.9	0.0	0.0	74.5	4.8	1.051	11.6	Long	Purple
Average		37.0	21.9	10.5	4.6	0.0	58.2	4.8	1.063	13.8		
L.S.D. (.05)		12.3	8.5	8.2	5.6	1.1	12.2	4.2	0.004	0.6		

Dalhart  
Table 3b.

Percent by weight of U.S. No. 1, over 18 oz, under 4 oz, culls/No.2 potatoes, specific gravity, tuber type and skin type of 74 entries in the Western, Southwest Regional, and Texas Advanced Red/Specialty Selection Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Percent By Weight of U.S. No. 1				Percent By Weight			Specific Gravity	% Solids	Tuber Type	Skin Type
		Total Yield	4-6 oz	6-10 oz	10-18 oz	Over 18 oz.	Under 4 oz.	Culls/No. 2				
Red LaSoda	TXRed20	75.6	16.3	32.2	27.0	4.6	14.1	5.8	1.059	13.0	Round	Red
COTX15083-1R	TXRed20	33.2	27.4	5.8	0.0	0.0	66.5	0.3	1.055	12.3	Round	Red
COTX15111-1R	TXRed20	42.0	22.4	19.6	0.0	0.0	58.0	0.0	1.064	14.0	Compressed	Red
NDTX14156-3P	TXRed20	33.9	25.2	7.1	1.6	0.0	63.2	3.0	1.055	12.2	Oblong	Purple
NDTX071258B-1R	TXRed20	14.0	14.0	0.0	0.0	0.0	84.7	1.2	1.062	13.7	Compressed	Red
A08112-7R	TXRed20	15.6	14.6	1.0	0.0	0.0	84.0	0.4	1.066	14.3	Round	Red
Chieftain	TXRed20	73.3	27.5	29.9	15.9	1.9	23.7	1.0	1.062	13.6	Round	Red
NDTX4784-7R	TXRed20	53.8	29.7	12.0	12.1	1.4	43.8	1.0	1.053	12.0	Compressed	Red
NDTX12248Y-1R	TXRed20	51.5	24.4	19.1	8.0	0.0	48.5	0.0	1.059	13.1	Compressed	Red
TX17733-1R	TXRed20	38.8	28.1	10.7	0.0	0.0	59.6	1.6	1.051	11.6	Oblong	Red
TX17802-5R	TXRed20	19.2	15.7	3.4	0.0	0.0	80.0	0.8	1.060	13.3	Round	Red
Modoc	TXRed20	66.8	32.2	20.3	14.3	0.0	31.5	1.7	1.059	13.1	Round	Red
TX17797-11Y/Y	TXSM20	18.2	12.9	5.3	0.0	0.0	79.8	2.0	1.083	17.4	Compressed	Yellow
ATX06264s-4R/Y	TXSM20	26.3	17.5	8.8	0.0	0.0	72.5	1.2	1.063	13.7	Round	Red
TX17773-3R/Y	TXSM20	17.9	16.9	1.0	0.0	0.0	77.7	4.4	1.051	11.5	Oval	Red
TX17714-4R	TXSM20	21.9	18.0	3.9	0.0	0.0	76.3	1.8	1.045	10.5	Round	Red
ATTX05175s-1R/Y	TXSM20	9.1	9.1	0.0	0.0	0.0	90.7	0.2	1.071	15.1	Round	Red
TX17742-22P/P	TXSM20	9.7	9.7	0.0	0.0	0.0	90.3	0.0	1.064	14.0	Round	Purple
COTX04050s-1P/P	TXSM20	21.3	20.8	0.5	0.0	0.0	78.7	0.0	1.061	13.4	Round	Purple
ATTX98444s-16R/Y	TXSM20	15.1	15.1	0.0	0.0	0.0	78.7	6.2	1.070	15.1	Round	Red
TX17815-4P/P	TXSM20	29.7	22.8	6.8	0.0	0.0	69.2	1.2	1.049	11.2	Long	Purple
COTX15111-3R	TXSM20	3.6	3.6	0.0	0.0	0.0	96.4	0.0	1.055	12.3	Round	Red
COTX16212-2Y/Y	TXSM20	4.1	4.1	0.0	0.0	0.0	95.7	0.2	1.065	14.1	Round	Yellow
NDTX081451CBs-1Y/Y	TXW/Y20	59.3	28.6	16.9	13.9	0.0	39.8	0.8	1.079	16.6	Oval	Yellow
Paroli	TXW/Y20	42.1	23.2	15.0	3.8	0.0	49.0	8.9	1.056	12.6	Round	White
AORTX11913-3Wre	TXW/Y20	27.7	16.2	9.8	1.7	0.0	69.4	2.8	1.060	13.3	Round	White Red Eye
ATTX07230-4Yre/Y	TXW/Y20	47.1	23.5	16.6	7.0	0.0	49.5	3.4	1.055	12.3	Round	Yellow Red Eye
COTX10118-4Wpe/Y	TXW/Y20	24.9	13.7	10.3	0.9	0.0	73.8	1.3	1.057	12.7	Round	White Purple Eye
TX17763-2Y/Y	TXW/Y20	47.5	25.1	14.5	8.0	0.0	51.6	0.9	1.064	13.9	Oval	Yellow
CO11250-1W/Y	TXW/Y20	25.0	17.5	6.0	1.5	0.0	73.8	1.2	1.078	16.4	Oval	White
Yukon Gold	TXW/Y20	66.6	22.1	24.3	20.2	2.0	20.3	11.1	1.071	15.2	Round	White
CO11266-1W/Y	TXW/Y20	6.9	6.9	0.0	0.0	0.0	92.7	0.4	1.067	14.4	Oval	White
POR14PG22-3	TXW/Y20	2.4	2.4	0.0	0.0	0.0	97.6	0.0	1.065	14.1	Round	White
COTX10138-15Wpe/Y	TXW/Y20	25.7	22.9	2.7	0.0	0.0	74.0	0.4	1.067	14.5	Compressed	White Purple Eye
Tacna	TXW/Y20	56.4	24.5	19.6	12.3	0.0	36.2	7.4	1.058	12.9	Round	White
COTX10012-1Wrdspl/Y	TXW/Y20	34.1	27.4	5.8	0.9	0.0	62.8	3.1	1.060	13.3	Round	White Red Splash
CO10064-1W/Y	TXW/Y20	6.2	6.2	0.0	0.0	0.0	91.5	2.3	1.082	17.1	Round	White
TX17713-2W	TXW/Y20	17.5	17.5	0.0	0.0	0.0	82.5	0.0	1.079	16.5	Compressed	White
CO10098-5W/Y	TXW/Y20	6.8	6.8	0.0	0.0	0.0	76.8	16.4	1.090	18.6	Oval	White
Average		31.5	18.6	8.9	4.0	0.3	66.1	2.1	1.062	13.6		
L.S.D. (.05)		12.3	8.5	8.2	5.6	1.1	12.2	4.2	0.004	0.6		

Dalhart  
Table 3c.

Average number of tubers, tuber weight, percent stand 60 days after planting, plant characteristics, percent dead vine at vine kill, length/with, and with/thickness, length cm, with cm, and thickness cm of 74 entries in the Western, Southwest Regional, and Texas Advanced Red/Specialty Selection Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Average Number Tubers/ Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines	Length/ With	With/ Thickness	Length cm	With cm	Thickness cm
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>						
TX17734F-1Y/Y	TXFing20	9.6	3.2	100	1.0	4.2	5.0	3.3	0	1.96	1.17	10.7	5.5	4.7
COTX15182F-2Ru	TXFing20	4.4	4.1	100	1.5	3.5	5.0	3.0	0	2.47	1.04	13.0	5.3	5.1
TX17788F-4R/R	TXFing20	5.8	3.1	100	1.0	4.0	5.0	3.2	0	2.63	1.11	12.6	4.8	4.4
COTX08365F-3P/P	TXFing20	4.5	3.2	100	1.3	3.7	5.0	3.5	0	3.12	0.95	13.3	4.3	4.5
ATX11684F-2W/Y	TXR/Y20	3.2	3.2	100	2.0	3.5	3.5	3.0	25	2.26	1.26	12.0	5.3	4.2
PORTX03PG25-2R/R	TXFing20	8.6	2.4	53	3.0	2.2	5.0	2.8	0	2.77	1.04	12.8	4.6	4.4
Banana	TXFing20	2.5	1.9	81	3.0	2.5	5.0	2.8	0	2.79	0.96	11.3	4.1	4.2
TX17765-1R/Y	TXR/Y20	13.3	2.6	100	1.7	4.0	3.7	3.2	15	0.99	1.17	6.7	6.8	5.9
TX17755-2P/splash	TXR/Y20	9.2	3.8	100	1.7	3.7	5.0	3.0	0	1.36	1.24	8.6	6.3	5.1
Purple Majesty	TXR/Y20	12.7	2.6	100	1.0	4.3	3.0	3.3	40	1.50	1.09	8.8	5.9	5.4
ATX11586-2R/Y	TXR/Y20	9.9	3.3	100	1.7	3.8	5.0	3.2	0	1.56	1.03	9.0	5.8	5.6
TX17742-19R/R	TXR/Y20	9.8	3.3	96	1.0	3.5	5.0	3.3	0	1.53	1.03	8.9	5.8	5.6
NDTX14156-1R/Y	TXR/Y20	10.1	3.1	100	1.3	4.2	5.0	3.2	0	1.15	1.37	7.9	6.9	5.0
NDTX091886-3P/P	TXR/Y20	8.7	3.4	100	1.0	4.3	5.0	3.2	0	1.41	1.11	8.5	6.1	5.5
TX17805-8R/R	TXR/Y20	11.2	2.6	100	1.0	4.0	5.0	3.2	0	1.38	1.14	8.3	6.0	5.3
ATTX11633-1RYpinto/Y	TXR/Y20	11.2	2.7	94	2.7	3.3	4.5	3.2	2	0.90	1.18	6.3	7.0	6.0
TX17805-10PYpinto/Y	TXR/Y20	7.4	3.6	100	1.0	4.0	4.0	3.3	10	1.16	1.22	7.8	6.7	5.5
COTX16078-9PWpinto/Y	TXR/Y20	12.5	2.1	100	2.0	3.5	5.0	3.5	0	1.14	1.14	7.3	6.4	5.6
NDTX092237C-2P/W	TXR/Y20	5.8	4.9	94	1.0	3.3	5.0	3.2	0	1.20	1.22	8.0	6.7	5.5
TX17805-1RWpinto/R	TXR/Y20	6.8	3.8	100	1.0	3.3	5.0	3.3	0	1.31	1.14	8.4	6.4	5.6
Sierra Rose	TXR/Y20	6.0	4.4	97	2.0	3.3	4.5	3.2	5	1.31	1.20	8.5	6.5	5.4
TX17805-12R/R	TXR/Y20	5.4	4.6	100	1.7	3.5	4.0	3.2	10	1.17	1.22	7.8	6.6	5.4
TX17742-23P/P	TXR/Y20	7.2	3.4	97	1.0	3.7	4.0	3.3	10	1.68	1.17	9.6	5.7	4.9
TX17808-2R/Y	TXR/Y20	5.2	4.8	97	1.3	3.5	5.0	3.2	0	1.25	1.35	8.6	6.9	5.2
ATX02263-1R/Y	TXR/Y20	11.2	2.8	78	1.7	3.3	4.0	3.0	15	1.28	1.21	8.1	6.3	5.3
ATX11549-1P/Y	TXR/Y20	6.3	3.6	99	2.7	3.3	2.0	3.0	80	1.10	1.17	7.5	6.9	5.9
ATTX10265-4R/Y	TXR/Y20	8.3	2.7	97	1.3	3.7	3.8	3.2	20	1.32	1.33	8.3	6.3	4.8
TX17750-1R/R	TXR/Y20	7.5	4.9	58	3.0	2.7	4.5	3.0	5	1.56	1.31	9.7	6.3	4.8
Unica	TXR/Y20	7.8	2.6	100	2.0	3.5	5.0	3.0	0	1.43	1.24	9.2	6.5	5.2
COTX04193s-2R/Y	TXR/Y20	6.8	2.8	96	2.0	3.3	2.5	3.3	75	1.15	1.23	7.7	6.7	5.4
TX17750-8R/R	TXR/Y20	6.9	5.1	50	3.0	2.5	5.0	2.8	0	2.16	1.15	12.3	5.7	5.0
NDTX14156-2RWpinto/Y	TXR/Y20	5.3	3.2	100	1.0	3.8	5.0	3.3	0	1.58	1.38	10.0	6.4	4.6
NDTX059759-3R/Y Pinto	TXR/Y20	5.3	3.9	83	1.7	3.2	4.5	3.0	5	1.30	1.23	8.9	6.8	5.6
TX14646-1RWpinto/Y	TXR/Y20	4.1	5.6	67	2.3	2.8	5.0	3.2	0	1.29	1.30	8.8	6.9	5.3
TX17815-1P/P	TXR/Y20	4.1	2.6	83	2.0	3.0	2.0	3.0	3	1.98	1.06	9.7	5.0	4.7
Average		7.6	3.4	92	1.7	3.5	4.4	3.1	9	1.60	1.18	9.3	6.1	5.2
L.S.D. (.05)		2.0	0.6	14	0.7	0.5	0.0	ns	0	0.18	0.13	0.8	0.5	0.6

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

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

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

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



Dalhart  
Table 3c.

Average number of tubers, tuber weight, percent stand 60 days after planting, plant characteristics, percent dead vine at vine kill, length/with, and with/thickness, length cm, with cm, and thickness cm of 74 entries in the Western, Southwest Regional, and Texas Advanced Red/Specialty Selection Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Average Number Tubers/Plant	Average Tuber Weight In oz.	Percent Stand 60 DAP	Plant Characteristics				Percent Dead Vines	Length/With	With/Thickness	Length cm	With cm	Thickness cm
					Plant Type <sup>1</sup>	Vigor <sup>2</sup>	Maturity <sup>3</sup>	Vine Size <sup>4</sup>						
Red LaSoda	TXRed20	5.1	7.0	99	1.3	4.0	5.0	3.3	0	1.19	1.24	8.4	7.1	5.7
COTX15083-1R	TXRed20	10.4	3.2	100	1.3	4.0	5.0	3.3	0	1.05	1.12	7.1	6.8	6.1
COTX15111-1R	TXRed20	9.7	3.4	96	2.5	3.5	5.0	3.0	0	1.02	1.17	6.9	6.8	5.8
NDTX14156-3P	TXRed20	7.3	3.8	97	1.3	3.8	5.0	3.2	0	1.48	1.45	9.7	6.6	4.5
NDTX071258B-1R	TXRed20	11.6	2.3	100	1.3	3.8	3.0	3.0	60	1.04	1.11	6.9	6.6	6.0
A08112-7R	TXRed20	11.2	2.4	100	1.0	4.2	3.7	3.3	15	1.25	1.12	7.8	6.2	5.6
Chieftain	TXRed20	8.3	5.7	67	1.7	3.3	4.0	3.3	15	1.22	1.24	8.2	6.8	5.5
NDTX4784-7R	TXRed20	5.6	4.3	94	1.3	3.5	3.0	3.2	50	1.00	1.15	7.0	7.0	6.1
NDTX12248Y-1R	TXRed20	5.4	4.3	97	2.3	3.0	4.0	3.0	10	1.05	1.15	7.4	7.1	6.2
TX17733-1R	TXRed20	5.9	3.6	89	2.7	2.7	5.0	3.0	0	1.72	1.10	9.8	5.7	5.2
TX17802-5R	TXRed20	7.4	2.6	97	2.7	2.7	5.0	2.8	0	1.15	1.21	7.3	6.4	5.3
Modoc	TXRed20	10.3	5.0	23	3.0	2.0	5.0	3.0	0	1.13	1.06	7.6	6.7	6.4
TX17797-11Y/Y	TXSM20	13.3	3.0	100	1.7	4.3	5.0	3.0	0	0.98	1.19	6.7	6.9	5.8
ATX06264s-4R/Y	TXSM20	10.0	2.9	100	1.7	3.7	2.5	3.3	75	1.10	1.28	7.5	6.8	5.3
TX17773-3R/Y	TXSM20	11.2	2.3	97	2.0	3.3	5.0	3.2	0	1.52	1.18	9.2	6.1	5.2
TX17714-4R	TXSM20	10.4	2.3	100	2.0	3.5	5.0	3.0	0	1.39	1.30	8.5	6.1	4.7
ATTX05175s-1R/Y	TXSM20	11.6	2.0	100	1.3	3.8	5.0	3.2	0	1.06	1.09	6.1	5.8	5.4
TX17742-22P/P	TXSM20	10.5	2.1	100	2.0	3.3	4.0	3.5	10	1.06	1.42	7.5	7.1	5.0
COTX04050s-1P/P	TXSM20	9.2	2.3	100	2.0	3.3	5.0	3.0	0	1.23	1.20	7.8	6.3	5.3
ATTX98444s-16R/Y	TXSM20	8.0	2.2	89	1.7	3.3	4.5	3.0	5	1.20	1.20	7.6	6.3	5.3
TX17815-4P/P	TXSM20	5.3	3.0	92	1.7	3.0	5.0	3.2	0	2.39	1.07	12.5	5.3	4.9
COTX15111-3R	TXSM20	6.3	1.8	100	3.0	2.5	5.0	3.2	0	1.08	1.08	6.0	5.6	5.2
COTX16212-2Y/Y	TXSM20	6.6	1.7	100	2.3	3.0	5.0	2.8	0	1.10	1.02	6.0	5.5	5.4
NDTX081451CBs-1Y/Y	TXW/Y20	12.0	4.2	100	1.3	4.5	5.0	3.0	0	1.27	1.28	8.8	6.9	5.4
Paroli	TXW/Y20	9.7	4.5	100	1.7	3.7	5.0	3.3	0	1.40	1.06	8.7	6.2	5.9
AO RTX11913-3Wre	TXW/Y20	12.6	3.1	100	1.7	3.7	5.0	3.0	0	1.07	1.15	7.3	6.9	6.0
ATTX07230-4Yre/Y	TXW/Y20	26.3	3.0	100	1.7	3.8	5.0	3.2	0	1.07	1.08	7.1	6.6	6.2
COTX10118-4Wpe/Y	TXW/Y20	11.3	2.9	100	1.3	4.0	5.0	3.0	0	1.10	1.29	7.3	6.7	5.2
TX17763-2Y/Y	TXW/Y20	7.2	4.5	100	2.3	3.5	4.0	3.2	15	1.56	1.18	10.5	6.7	5.7
CO11250-1W/Y	TXW/Y20	9.8	3.3	100	2.0	3.7	4.0	3.2	10	1.38	1.15	8.7	6.3	5.5
Yukon Gold	TXW/Y20	4.8	6.2	97	1.7	3.7	4.5	3.3	5	1.14	1.21	8.0	7.0	5.8
CO11266-1W/Y	TXW/Y20	11.8	2.2	100	2.3	3.3	5.0	3.0	0	1.29	1.10	7.9	6.1	5.6
POR14PG22-3	TXW/Y20	11.1	2.3	100	1.7	3.7	5.0	3.2	0	1.22	1.10	6.8	5.6	5.1
COTX10138-15Wpe/Y	TXW/Y20	10.0	2.6	94	3.0	2.7	5.0	3.5	0	0.94	1.10	6.6	7.1	6.5
Tacna	TXW/Y20	7.0	3.4	100	2.0	2.8	5.0	3.8	0	1.28	1.31	8.3	6.5	5.0
COTX10012-1Wrdspl/Y	TXW/Y20	7.3	3.2	100	3.0	3.0	3.0	3.2	60	1.17	1.10	7.7	6.6	6.0
CO10064-1W/Y	TXW/Y20	9.5	2.4	99	1.0	4.0	5.0	3.3	0	1.08	1.22	6.9	6.4	5.3
TX17713-2W	TXW/Y20	8.1	2.4	100	2.5	3.5	2.0	3.0	85	1.01	1.34	7.0	6.9	5.2
CO10098-5W/Y	TXW/Y20	6.7	2.6	100	3.0	3.3	5.0	3.2	0	1.50	1.17	8.6	5.7	5.0
Average		9.5	3.3	95	1.9	3.4	4.6	3.2	9	1.23	1.18	7.8	6.5	5.5
L.S.D. (.05)		2.0	0.6	14	0.7	0.5	0.0	ns	0	0.18	0.13	0.8	0.5	0.6

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

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

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

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

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Table 3d. Flesh color, tuber shape, degree of russeting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 74 entries in the Western, Southwest Regional, and Texas Advanced Red/Specialty Selection Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russeting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>5</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Greening <sup>11</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>11</sup>	Percent Internal Brownspot
TX17734F-1Y/Y	TXFing20	3.5	4.2	1.0	4.2	1.0	4.9	5.0	4.6	5.0	5.0	5.0	0	0	0	0
COTX15182F-2Ru	TXFing20	1.0	5.0	4.2	4.0	4.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX17788F-4R/R	TXFing20	2.3	5.0	1.0	4.0	3.5	5.0	5.0	5.0	4.8	5.0	5.0	0	0	0	0
COTX08365F-3P/P	TXFing20	4.3	5.0	1.0	4.0	5.0	5.0	5.0	5.0	4.9	5.0	5.0	0	0	3	0
ATX11684F-2W/Y	TXR/Y20	3.0	5.0	1.0	4.0	1.5	5.0	5.0	5.0	4.5	5.0	5.0	0	0	0	0
PORTX03PG25-2R/R	TXFing20	4.2	5.0	1.0	4.0	4.5	5.0	5.0	5.0	4.8	5.0	5.0	0	0	0	0
Banana	TXFing20	3.5	5.0	1.0	4.0	1.5	5.0	5.0	5.0	3.0	5.0	5.0	0	0	0	0
TX17765-1R/Y	TXR/Y20	4.5	1.0	1.1	4.0	2.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX17755-2P/splash	TXR/Y20	1.0	2.6	1.0	4.3	3.0	4.9	5.0	5.0	4.9	5.0	5.0	0	0	0	0
Purple Majesty	TXR/Y20	4.5	3.0	1.0	4.2	5.0	5.0	5.0	5.0	4.8	5.0	5.0	0	0	0	0
ATX11586-2R/Y	TXR/Y20	3.5	3.0	1.0	4.0	4.4	4.9	5.0	5.0	4.9	5.0	5.0	0	0	0	0
TX17742-19R/R	TXR/Y20	2.0	2.9	1.0	4.5	4.6	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	0
NDTX14156-1R/Y	TXR/Y20	1.0	2.5	1.0	4.0	4.5	4.9	5.0	5.0	4.9	4.8	5.0	0	0	0	0
NDTX091886-3P/P	TXR/Y20	4.5	2.0	1.1	4.0	5.0	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	0
TX17805-8R/R	TXR/Y20	3.5	2.6	2.3	4.5	4.8	5.0	5.0	4.8	4.9	5.0	5.0	0	0	0	0
ATTX11633-1RYpinto/Y	TXR/Y20	3.6	1.0	1.0	3.8	3.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX17805-10PYpinto/Y	TXR/Y20	3.5	1.4	1.0	4.0	3.9	5.0	5.0	4.8	5.0	5.0	5.0	0	0	0	0
COTX16078-9PWpinto/Y	TXR/Y20	3.5	1.0	1.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX092237C-2P/W	TXR/Y20	1.0	2.7	1.0	4.2	5.0	4.8	5.0	5.0	4.8	5.0	5.0	0	0	0	0
TX17805-1RWpinto/R	TXR/Y20	3.8	2.5	1.0	4.0	4.4	5.0	5.0	4.8	4.8	5.0	5.0	0	0	0	0
Sierra Rose	TXR/Y20	3.5	3.2	1.0	4.3	4.1	5.0	5.0	4.3	4.8	5.0	5.0	0	0	0	0
TX17805-12R/R	TXR/Y20	4.0	1.9	1.3	4.0	4.5	4.9	5.0	5.0	4.8	5.0	5.0	0	0	0	0
TX17742-23P/P	TXR/Y20	3.5	3.3	1.0	4.3	4.8	5.0	5.0	4.9	5.0	5.0	5.0	0	0	0	0
TX17808-2R/Y	TXR/Y20	3.5	3.3	1.0	4.5	4.3	5.0	5.0	4.9	5.0	5.0	5.0	0	0	0	0
ATX02263-1R/Y	TXR/Y20	3.2	1.7	1.0	4.5	4.0	5.0	5.0	5.0	4.8	5.0	5.0	0	0	0	0
ATX11549-1P/Y	TXR/Y20	3.5	1.5	1.1	4.2	5.0	5.0	5.0	4.9	5.0	5.0	5.0	3	0	0	0
ATTX10265-4R/Y	TXR/Y20	4.2	2.0	1.0	4.5	4.0	5.0	5.0	5.0	4.6	5.0	5.0	0	0	0	0
TX17750-1R/R	TXR/Y20	1.0	3.5	1.0	3.9	4.8	4.8	5.0	5.0	4.9	4.8	5.0	0	0	0	0
Unica	TXR/Y20	2.0	2.5	1.3	4.0	3.5	5.0	5.0	2.8	5.0	5.0	5.0	0	0	40	0
COTX04193s-2R/Y	TXR/Y20	4.2	1.0	1.0	4.0	4.2	4.8	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX17750-8R/R	TXR/Y20	1.8	4.5	1.0	4.0	4.1	4.9	5.0	4.9	4.8	5.0	5.0	0	0	0	0
NDTX14156-2RWpinto/Y	TXR/Y20	3.6	3.0	1.0	4.5	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX059759-3R/Y Pinto	TXR/Y20	3.7	2.6	1.0	4.5	4.0	5.0	5.0	4.9	4.9	5.0	5.0	3	0	0	0
TX14646-1RWpinto/Y	TXR/Y20	3.0	3.0	1.0	4.0	4.1	5.0	5.0	4.7	5.0	5.0	5.0	0	0	0	0
TX17815-1P/P	TXR/Y20	4.5	3.8	1.0	4.5	5.0	5.0	5.0	5.0	4.8	5.0	5.0	0	0	0	0
Average		3.2	2.9	1.2	4.1	4.0	5.0	5.0	4.9	4.8	5.0	5.0	0.2	0	1	0
L.S.D. (.05)		0.3	0.3	0.1	0.2	0.5	0.1	ns	0.1	0.3	ns	0.04	5.5	ns	1.7	9.4

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

<sup>6</sup> 1 to 5=none  
<sup>7</sup> 1 to 5=none  
<sup>8</sup> 1 to 5=none  
<sup>9</sup> 1 to 5=none  
<sup>10</sup> 1 to 5=none

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

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Table 3d.

Flesh color, tuber shape, degree of russetting, eye depth, skin color, growth cracks, shatter bruise, scab, knobiness, feathering, percent hollow heart, percent blackspot, percent vascular discoloration, percent internal brownspot of 74 entries in the Western, Southwest Regional, and Texas Advanced Red/Specialty Selection Trial grown near Dalhart, Texas-2020.

Clone name/ID	Trial	Flesh Color <sup>1</sup>	Tuber Shape <sup>2</sup>	Degree of Russetting <sup>3</sup>	Eye Depth <sup>4</sup>	Skin Color <sup>5</sup>	Growth Cracks <sup>6</sup>	Shatter Bruise <sup>7</sup>	Scab <sup>8</sup>	Knobs <sup>9</sup>	Feathering <sup>10</sup>	Greening <sup>11</sup>	Percent Hollow Heart	Percent Blackspot	Percent Vascular Discoloration <sup>11</sup>	Percent Internal Brownspot
Red LaSoda	TXRed20	1.0	2.7	1.0	3.5	3.5	4.9	5.0	5.0	4.5	5.0	5.0	7	0	0	0
COTX15083-1R	TXRed20	1.0	1.0	1.0	4.0	4.5	5.0	5.0	4.9	5.0	5.0	5.0	0	0	0	0
COTX15111-1R	TXRed20	1.0	1.0	1.0	4.1	4.0	5.0	5.0	4.8	5.0	5.0	5.0	0	0	0	0
NDTX14156-3P	TXRed20	1.0	3.0	1.0	4.5	5.0	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	0
NDTX071258B-1R	TXRed20	1.0	1.0	1.0	3.8	3.8	5.0	5.0	5.0	4.8	5.0	5.0	0	0	0	0
A08112-7R	TXRed20	1.0	1.5	1.0	4.5	4.1	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Chieftain	TXRed20	1.0	2.4	1.0	3.8	3.3	5.0	5.0	4.9	4.9	5.0	5.0	3	0	0	27
NDTX4784-7R	TXRed20	1.0	1.0	1.0	4.0	4.3	4.9	5.0	5.0	5.0	4.8	5.0	0	0	0	0
NDTX12248Y-1R	TXRed20	1.0	1.2	1.0	4.0	3.6	5.0	5.0	5.0	5.0	5.0	5.0	3	0	0	0
TX17733-1R	TXRed20	1.1	3.3	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX17802-5R	TXRed20	1.0	1.0	1.0	4.0	4.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
Modoc	TXRed20	1.0	2.3	1.0	4.5	4.0	5.0	5.0	4.9	5.0	5.0	5.0	0	0	0	0
TX17797-11Y/Y	TXSM20	2.6	1.0	1.2	4.0	1.2	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	0
ATX06264s-4R/Y	TXSM20	4.0	1.0	1.0	4.0	4.2	5.0	5.0	4.9	4.9	5.0	5.0	0	3	0	0
TX17773-3R/Y	TXSM20	4.0	2.9	1.0	4.0	4.2	5.0	5.0	4.8	4.6	5.0	5.0	0	0	0	0
TX17714-4R	TXSM20	1.0	1.9	1.0	4.0	3.3	5.0	5.0	5.0	4.8	5.0	5.0	5	0	0	0
ATTX05175s-1R/Y	TXSM20	4.2	1.0	1.0	3.8	4.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
TX17742-22P/P	TXSM20	3.5	1.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX04050s-1P/P	TXSM20	4.8	1.0	1.0	4.5	5.0	5.0	5.0	4.9	5.0	5.0	5.0	0	0	0	0
ATTX98444s-16R/Y	TXSM20	4.1	1.1	1.0	4.0	4.0	5.0	5.0	5.0	4.5	5.0	5.0	0	0	0	3
TX17815-4P/P	TXSM20	4.5	5.0	1.0	4.0	5.0	5.0	5.0	5.0	5.0	4.8	5.0	0	0	0	0
COTX15111-3R	TXSM20	1.0	1.0	1.0	4.0	4.8	5.0	5.0	5.0	5.0	5.0	5.0	3	0	3	0
COTX16212-2Y/Y	TXSM20	4.6	1.0	1.0	3.8	1.4	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
NDTX081451CBs-1Y/Y	TXW/Y20	3.5	2.5	1.0	4.2	1.2	5.0	5.0	4.9	4.9	5.0	5.0	43	0	0	3
Paroli	TXW/Y20	4.1	2.6	1.0	4.5	1.5	4.8	5.0	4.8	4.3	5.0	4.9	0	0	0	0
AORTX11913-3Wre	TXW/Y20	1.0	1.2	1.0	4.0	4.0	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	10
ATTX07230-4Yre/Y	TXW/Y20	2.9	1.0	1.0	4.0	2.0	4.9	5.0	5.0	4.9	5.0	5.0	0	0	0	50
COTX10118-4Wpe/Y	TXW/Y20	4.3	1.5	1.0	4.3	3.0	5.0	5.0	5.0	4.9	5.0	4.9	0	0	0	0
TX17763-2Y/Y	TXW/Y20	3.6	3.6	1.0	4.5	2.0	5.0	5.0	5.0	4.9	5.0	5.0	0	0	0	0
CO11250-1W/Y	TXW/Y20	4.1	2.0	2.0	4.0	1.8	5.0	5.0	4.9	4.8	5.0	5.0	0	3	0	3
Yukon Gold	TXW/Y20	3.3	2.0	1.0	3.8	1.7	4.7	5.0	5.0	4.0	5.0	5.0	13	0	3	33
CO11266-1W/Y	TXW/Y20	4.4	1.0	2.0	4.0	2.5	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
POR14PG22-3	TXW/Y20	2.4	1.0	1.0	3.8	1.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0
COTX10138-15Wpe/Y	TXW/Y20	3.5	1.0	1.2	4.0	2.2	5.0	5.0	4.9	5.0	5.0	4.9	13	0	0	10
Tacna	TXW/Y20	1.0	2.6	1.0	4.0	1.0	5.0	5.0	5.0	4.1	5.0	5.0	10	0	0	20
COTX10012-1Wrdspl/Y	TXW/Y20	4.2	1.0	2.0	4.0	2.0	5.0	5.0	5.0	4.7	5.0	5.0	7	0	0	7
CO10064-1W/Y	TXW/Y20	3.0	1.0	1.3	4.0	2.4	5.0	5.0	5.0	4.7	5.0	5.0	0	0	0	23
TX17713-2W	TXW/Y20	1.6	1.0	1.0	4.0	1.0	5.0	5.0	4.9	5.0	5.0	5.0	0	0	0	0
CO10098-5W/Y	TXW/Y20	4.8	1.8	1.5	4.0	2.3	5.0	5.0	5.0	3.5	5.0	5.0	0	0	0	0
Average		2.6	1.7	1.1	4.0	3.2	5.0	5.0	5.0	4.8	5.0	5.0	2.9	0	0	5
L.S.D. (.05)		0.3	0.3	0.1	0.2	0.5	0.1	ns	0.1	0.3	ns	0.04	5.5	ns	1.7	9.4

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

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

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

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

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

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

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

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

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

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

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

Clone name/ID	Trial	Notes Grading	General Rating Grading
TX17734F-1Y/Y	TXFing20	very smooth, shiny, oblong, scan, nice, shiny, beautiful smooth skin, very nice flesh, lemon yellow flesh, parents, nice shiny skin	3.7, 3.8, 4
COTX15182F-2Ru	TXFing20	soft stolon ends, fingerling russet, it grew too much, less time would be recommended, plant closer and under more stress, parent, cross with fingerlings,	3.8, 3.8,
TX17788F-4R/R	TXFing20	, fingerling, light red flesh, nice, fingerling, light red flesh, nice	3.8, 4.2, 4.2
COTX08365F-3P/P	TXFing20	pigmentation spots around the edges, , fingerling, BOT, it got quite big, it should be grown for a shorter period of time and closer spacing	3.8, 3.8, 4.5
ATX11684F-2W/Y	TXR/Y20	fingerling, not great but better than Banana, yellow skin, yellow flesh, ,	3.6, ,
PORTX03PG25-2R/R	TXFing20	, , fingerling	3.7, 3.6, 3.8
Banana	TXFing20	many knobs, few tubers, ,	2.5, 2.5, 2.5
TX17765-1R/Y	TXR/Y20	high tuber number, uniform size and shape, different red skin, soft red, very high tuber number, pretty uniform size and shape, very round, MIXED yellow and white 50%, yellow flesh is very intense	3.8, 3.8, 4
TX17755-2P splash	TXR/Y20	amethyst splashed, very nice, shiny, BOT, high tuber number, very unique pattern, amethyst purple splash, a little flat, high tuber number, nice, FOR ANGEL	4.6, 4.2, 4.2
Purple Majesty	TXR/Y20	some skin netting, silver scurf?, purple marble flesh, very high tuber number, buff skin, purple marble flesh, some skin netting, nice, purple marbled flesh, include in PVP trial next year	4, 4.2, 4
ATX11586-2R/Y	TXR/Y20	oblong, uniform size and shape, shiny, high tuber number, oblong, nice, shiny,	3.7, 4, 3.8
TX17742-19R/R	TXR/Y20	intense red flesh, tear drops, white and red flesh, white and pink flesh, high tuber number,	4, 4,
NDTX14156-1R/Y	TXR/Y20	flat, nonuniform size/shape, intense red skin, flat,	3.5, 3.6, 3.6
NDTX091886-3P/P	TXR/Y20	intense purple flesh, grey skin, very high tuber number, skin has some netting	4, 3.8, 4
TX17805-8R/R	TXR/Y20	very dark skin, almost maroon, pink flesh, nice, unique maroon skin color, marble red pattern, very high tuber number, uniform size and shape, nice, maroon skin, pink and white flesh, nice	4.2, 4.2, 4.5
ATTX11633-1RYpinto/Y	TXR/Y20	compressed, interesting pinto pattern, small, round, uniform yellow flesh, pomme de terre, apples, very round, deep bud end, some heterogeneity in skin intensity, very round, apples, uniform size and shape, deep eyes, deep bud end, not uniform pinto pattern, some	3.6, 3.7, 3.6
TX17805-10PYpinto/Y	TXR/Y20	only parent, unique skin and flesh pattern, flesh is yellow and red,	3.7, 3.7,
COTX16078-9PWpinto/Y	TXR/Y20	attached dry stolons, nice shape, unique pattern, parent, pink-red flesh even under white skin, pinto white red skin, ,	4, ,
NDTX092237C-2P/W	TXR/Y20	very large, white and purple flesh, some rotten, white flesh with purple vascular wide ring, white and purple flesh	3.7, 3.7, 4.2
TX17805-1RWpinto/R	TXR/Y20	yellow and red flesh, interesting flesh pattern, parent, a little pointed, buff skin, very dark red, fun flesh pattern,	4.2, 4.2,
Sierra Rose	TXR/Y20	BOT, parent, silver scurf?, , very nice, BOT	4.5, 4, 4.5
TX17805-12R/R	TXR/Y20	unique skin color, dark red almost maroon, parent, red marble flesh, flesh looks like red marbled meat, maroon skin color, unique skin color, red flesh	3.8, 3.8, 4
TX17742-23P/P	TXR/Y20	light purple and white flesh, nice, nice, shiny,	3.9, 4.2, 4
TX17808-2R/Y	TXR/Y20	flesh combined yellow and pink, drop, flat, yellow and pink flesh, drop, yellow and pink flesh, dislike flesh, drop	3.8, 3.8, 3.7
ATX02263-1R/Y	TXR/Y20	shiny, pointed, , dislike skin	3.6, 3.6, 3.6
ATX11549-1P/Y	TXR/Y20	, high tuber number, nice, yellow flesh, nice yellow flesh	3.7, 3.8, 3.7
ATTX10265-4R/Y	TXR/Y20	shiny, very intense yellow flesh, shiny, smooth skin, a little flat, 2/10 had internal rot, shiny, some sticky stolons, high tuber number, uniform size and shape, a little flat, intense flesh, nice skin-flesh combination	3.8, 3.8, 3.8
TX17750-1R/R	TXR/Y20	ugly, very light flesh, drop, ugly, very light flesh, drop, ugly skin, dislike flesh	3.4, 3.4, 3.4
Unica	TXR/Y20	many knobs, sprouting, very but shape, pointed, misshapen, rose skin, very light red skin, lots of knobs, bad shape,	3.3, 3.4,
COTX04193s-2R/Y	TXR/Y20	nice, shiny, very smooth, MISSING, nice, shiny	3.8, , 4
TX17750-8R/R	TXR/Y20	very light pink flesh, parent, oblong to long, looks like a sweet potato, white and red flesh,	3.6, 3.8,
NDTX14156-2RWpinto/Y	TXR/Y20	river stone, most are pinto, some are completely red, two groups: pinto and all red, most are pinto, selected only pinto, pinto and all red, most are pinto, selected only pinto	4.2, 4.2, 4
NDTX059759-3R/Y Pinto	TXR/Y20	, , smooth skin, nice, a little flat, some pink in yellow flesh	4, 4, 4.2
TX14646-1RWpinto/Y	TXR/Y20	yellow red skin pinto, large, yellow red flesh, Tissue culture as parent only, ugly flesh: yellow and pink combined, ugly flesh, only parent	3.6, 3.6, 3.6
TX17815-1P/P	TXR/Y20	very dark flesh, ,	3.5, 3.5,

Clone name/ID	Trial	Notes Grading	General Rating Grading
Red LaSoda	TXRed20	big, a little flat, high tuber number, very large potatoes, deep eyes, deep bud end,	3.4, 3.4, 3.5
COTX15083-1R	TXRed20	BOT, very uniform size and shape, intense skin color, high tuber number, enter in TC, produce minitubers, BOT, small-medium tuber, uniform size and shape, very round, intense skin color, snow white flesh, BOT, very nice, very round tubers, high tuber	4.6, 4.5, 4.5
COTX15111-1R	TXRed20	, nice shape and skin color, very round, uniform size and shape,	3.8, 4,
NDTX14156-3P	TXRed20	very flat, River Stone, promote, white flesh with medium purple sections, surprising interior, while flesh and purple streaks, flat, very smooth, shiny, white flesh with purple streaks	4, 4.2, 4
NDTX071258B-1R	TXRed20	dark red eyes, deep eyes, zipper eyes, some skin color variation, very high tuber number, small, dark eyes, nice, variation in skin color between tubers	3.7, 3.8, 3.8
A08112-7R	TXRed20	some skin netting, some variation in skin color, some tubers are more intense than others, few eyes, intense skin color, good shape, high tuber number	3.6, 3.7, 3.8
Chieftain	TXRed20	large, IBS, large,	3.8, 3.4, 3.7
NDTX4784-7R	TXRed20	very nice, check historical data, check storage and dormancy, ask Bruce to test it, produce good seed, promote it, very good, promote, parent, nice	4.5, 4.2, 4
NDTX12248Y-1R	TXRed20	nice, shiny, nice, shiny, very round,	3.7, 3.8, 3.8
TX17733-1R	TXRed20	red purplish skin, oblong, unique skin color, flesh is mainly white but with some pink tint, snow white flesh with a some diffuse pink tint, snow white flesh	3.7, 3.7, 3.7
TX17802-5R	TXRed20	, uniform size and shape, medium-small, nice shape and skin color	4, 4, 4.2
Modoc	TXRed20	very few tubers, declared as missing plot, , few eyes	, 3.5, 3.8
TX17797-11Y/Y	TXSM20	very nice, round, high tuber number, , very high tuber number, yellow market, nice	4.5, 4.5, 4.3
ATX06264s-4R/Y	TXSM20	, nice skin, borderline tuber type (size, shape, color), some skin color variation between tubers, a little flat	3.8, 3.6, 3.8
TX17773-3R/Y	TXSM20	nice intense yellow flesh, smooth skin, nice flesh color, oval to oblong, some tear shape, a little flat, shiny skin	3.5, 3.5, 3.5
TX17714-4R	TXSM20	tear drop shape, .	3.5, 3.5,
ATTX05175s-1R/Y	TXSM20	uniform size and shape, all small, nice, , very nice, all small, uniform size and shape	4.2, 4, 4.2
TX17742-22P/P	TXSM20	dislike flesh, light purple and not uniform, nice, shiny, uniform size and shape, light purple and white, flesh is not good enough,	3.8, 3.8,
COTX04050s-1P/P	TXSM20	careful! mixed white and purple flesh 50%, nice, grey skin	3.9, 3.8, 4
ATTX9844s-16R/Y	TXSM20	, , small	3.8, 3.7, 4
TX17815-4P/P	TXSM20	soft stolon ends, use as parent and then drop, very intense purple flesh, soft stolon ends, a few rotten ends, not a very good fingerling, use as parent before dropping, very intense flesh color, fingerling, soft stolon ends, very intense purple flesh, nice few tubers, very small, very round, nice, very nice intense skin, very round, small, white flesh, very small, very round, very intense	3.4, 3.4, 3.5
COTX15111-3R	TXSM20	skin, share with Kelly	3.6, 3.8, 3.8
COTX16212-2Y/Y	TXSM20	, very nice flesh, small yellow tubers, similar to 175s, beautiful flesh, nice	3.7, 3.7, 3.8
NDTX081451CBs-1Y/Y	TXW/Y20	impressive high yield, parent, small-medium tubers, internal issues in large tubers, send to Jas (CA), high tuber number, BOT, shiny, smooth, tissue culture, parent, IMPRESSIVE HIGH TUBER NUMBER, BOT, watch out for hollow heart	4.5, 4.8, 4.8
Paroli	TXW/Y20	very large in this rep, intense yellow flesh, high tuber number, buttery, soft cut, impressive high yield, high tuber number, nonuniform shape (small are oval, large are oblong) and size, noticeable stolon attachment specially in larger tubers	4.5, 4.5, 4.7
AORTX11913-3Wre	TXW/Y20	unique pattern, red eyes and eye shadow, many tubers, uniform size and shape, , high tuber number, unique pattern, nice, red eye, red eye shadow	4.2, 4, 4.2
ATTX07230-4Yre/Y	TXW/Y20	high tuber number, IBS, high tuber number, parent for yield, tuber number and shape, red eyes and shadow, very high tuber number, very round	4.2, 4.2, 4.2
COTX10118-4Wpe/Y	TXW/Y20	very high tuber number, nice, BOT, PVP, amethyst slashed skin, nice, intense yellow flesh, yellow market, very high tuber yield, uniform size and shape, relatively small	4, 4, 4
TX17763-2Y/Y	TXW/Y20	smooth, yellow skin, oblong, shallow eyes, shiny, yellow flesh, dark lemon yellow flesh, send to Jas (CA), smooth skin, shiny, oblong, change W/Y to Y/Y	3.8, 4, 4.5
CO11250-1W/Y	TXW/Y20	pink eyes, buff skin, nice yellow flesh, buff skin,	3.6, 3.6, 3.6
Yukon Gold	TXW/Y20	, very large, lots of knobs, smooth skin, large, high yield	4, 3.5, 4.6
CO11266-1W/Y	TXW/Y20	small, buff skin, pink eyes, ,	3.7, 3.6, 3.6
POR14PG22-3	TXW/Y20	very high tuber number, uniform size and shape, shiny, , all smalls, high tuber number	3.8, 3.8, 3.7
COTX10138-15Wpe/Y	TXW/Y20	BOT, unique, dark purple eyes and eye shadow, very round, uniform size and shape, many potatoes do not have the dark purple pattern, but seem to have the same shape and overall tuber type,	4, 4.2, 4.2
Tacna	TXW/Y20	it looks much better than in the past, no heat sprouts or other major issues, knobs, it looks much better than in the past, no heat sprouts or other major issues,	3.5, 3.5,
COTX10012-1Wrdspl/Y	TXW/Y20	buff skin, dislike skin texture, buff skin	3.7, 3.7, 3.7
CO10064-1W/Y	TXW/Y20	small, buff skin, 10% ZC, small, buff skin	3.7, 3.6, 3.8
TX17713-2W	TXW/Y20	it was -2R, we changed it to -2W, CHIP - it has high gravity-, .	4, 4.2,
CO10098-5W/Y	TXW/Y20	very intense yellow flesh, .	3.4, 3.4, 3.4

## **2020 4 Hill Chip Selections Trial, Dalhart**

The trial consisted of 322 entries. Nineteen were selected based on tuber appearance. The following nine clones were retained after chipping and (TX18131-2W, ATX15325-3W/Y, COTX17286-6W, COTX17288-1W, COTX17288-3W, COTX17288-4W, TX18042-1Ru, TX18119-1Ru, and TX18170-4W) will be advanced in 2021 (Table 4).

Dalhart  
Table 4

Inventory weight of 9 entries to be advanced  
from the 2020 4 hill chip selection trial grown  
near Dalhart, Texas-2020.

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Variety or Selection	Trial	Inventory Weight
ATX15325-3W	20DAL4hlCh024	20.7
COTX17286-6W	20DAL4hlCh038	14.1
COTX17288-1W	20DAL4hlCh039	28.2
COTX17288-3W	20DAL4hlCh041	14.5
COTX17288-4W	20DAL4hlCh042	26.5
TX18042-1Ru	20DAL4hlCh136	23.6
TX18119-1Ru	20DAL4hlCh217	2.9
TX18131-2W	20DAL4hlCh251	2.7
TX18170-4W	20DAL4hlCh263	6.1

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## **2020 4 Hill Russet Selections Trial, Dalhart**

The trial consisted of 123 entries. Thirteen clones (ATX08323-1Ru, ATX15120-1Ru, ATX15401-1Ru, ATX17051-2Ru, COTX17003-1Ru, COTX17086-2Ru, COTX17105-1Ru, COTX17123-2Ru, COTX17271-1Ru, COTX17304-1Ru, NDTX1791-1Ru, TX18126-5Ru, and TX18138-1Ru) will be advanced in 2021 (Table 5).



Dalhart  
Table 5

Inventory weight of 13 entries to be advanced  
from the 2020 4 hill russet selection trial  
grown near Dalhart, Texas-2020.

---

Variety or Selection	Trial	Inventory Weight
ATX08323-1Ru	20DAL4hlRu446	7.8
ATX15120-1Ru	20DAL4hlRu451	9
ATX15401-1Ru	20DAL4hlRu454	3.5
ATX17051-2Ru	20DAL4hlRu461	6.1
COTX17003-1Ru	20DAL4hlRu469	3.1
COTX17086-2Ru	20DAL4hlRu496	5.3
COTX17105-1Ru	20DAL4hlRu501	2.3
COTX17123-2Ru	20DAL4hlRu507	3.9
COTX17271-1Ru	20DAL4hlRu535	20.4
COTX17304-1Ru	20DAL4hlRu546	8.3
NDTX1791-1Ru	20DAL4hlRu553	20.2
TX18126-5Ru	20DAL4hlRu555	24.3
TX18138-1Ru	20DAL4hlRu557	8.1

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## **2020 4 Hill Red Selections Trial, Dalhart**

The trial consisted of thirty-four entries. Seven clones (NDTX14340-6R, NDTX14342-1R, NDTX1751-1R, NDTX1753Y-1R, NDTX1753Y-3R, TX18332-1R, and TX18334-3R) will be advanced in 2021 (Table 6).

Dalhart  
Table 6

Inventory weight of 7 entries to be advanced  
from the 2020 4 hill red selection trial grown  
near Dalhart, Texas-2020.

---

Variety or Selection	Trial	Inventory Weight
NDTX14340-6R	20DAL4hlRd325	5.9
NDTX14342-1R	20DAL4hlRd326	5
NDTX1751-1R	20DAL4hlRd331	9.1
NDTX1753Y-1R	20DAL4hlRd332	6.9
NDTX1753Y-3R	20DAL4hlRd334	28.2
TX18332-1R	20DAL4hlRd350	4.6
TX18334-3R	20DAL4hlRd352	3.8

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## **2020 4 Hill Red/Yellow Flesh Selections Trial, Dalhart**

The trial consisted of forty entries. Three clones (TX18192-2R/Y, TX18208-2R/Y, and TX18332-2Ryspl/Y) will be advanced in 2021 (Table 7).

Dalhart  
Table 7

Inventory weight of 3 entries to be advanced  
from the 2020 4 hill red yellow flesh selection  
trial grown near Dalhart, Texas-2020.

---

Variety or Selection	Trial	Inventory Weight
TX18192-2R/Y	20DAL4hlSp393	9.2
TX18208-2R/Y	20DAL4hlSp395	2.3
TX18332-2Ryspl/Y	20DAL4hlSp399	7.8

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## **2020 4 Hill Small Potato Selections Trial, Dalhart**

The trial consisted of seven entries. Two clones (NDTX14342s-3R and NDTX1759s-1R) will be advanced in 2021 (Table 8).

Dalhart  
Table 8

Inventory weight of 2 entries to be advanced  
from the 2020 4 hill small potato selection trial  
grown near Dalhart, Texas-2020.

---

Variety or Selection	Trial	Inventory Weight
NDTX14342s-3R	20DAL4hlSp383	27.4
NDTX1759s-1R/Y	20DAL4hlSp392	9.1

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## **2020 4 Hill Fingerling Selections Trial, Dalhart**

The trial consisted of fourteen entries. One clone (COTX17016F-2P/P) will be advanced in 2021 (Table 9).



Dalhart  
Table 9

Inventory weight of 1 entry to be advanced  
from the 2020 4 hill fingerling selection trial  
grown near Dalhart, Texas-2020.

---

Variety or Selection	Trial	Inventory Weight
COTX17016F-2P/P	20DAL4hlSp357	2.1

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## **2020 4 Hill Purple/Red Flesh Selections Trial, Dalhart**

The trial consisted of twelve entries. Two clones (COTX17115-3R/R and COTX17081-4P/P) will be advanced in 2021 (Table 10).

Dalhart  
Table 10

Inventory weight of 2 entries to be advanced  
from the 2020 4 hill red/purple flesh selection  
trial grown near Dalhart, Texas-2020.

---

Variety or Selection	Trial	Inventory Weight
COTX17115-3R/R	20DAL4hlSp363	5.7
COTX17081-4P/P	20DAL4hlSp379	5.4

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## **2020 4 Hill White/Yellow Selections Trial, Dalhart**

The trial consisted of seventeen entries. One clone (TX18337-2W) will be advanced in 2020 (Table 11).

Dalhart  
Table 11

Inventory weight of 1 entry to be advanced from  
the 2020 4 hill white skin yellow flesh selection  
Trial grown near Dalhart, Texas-2020.

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Variety or Selection	Trial	Inventory Weight
TX18337-2W	20DAL4hlSp421	13.5

## Appendix A. General notes on potato varieties or selections- 2020.

A071012-4BF-Long Russet. Parentage (A85331-7 x A01054-4). Cross was made and selected in Idaho. Medium late maturity. Medium-large vine size. White flower color.

Uses: dual

Strength: good size nice shape large

Weakness: pointed, angular, dark bruising, long+, MANY knobs+, pointed

Cutting Notes: light russeting

A07769-4-Oblong Russet. Parentage (PA01N32-1 x Premier Russet). Cross was made and selected in Idaho. Medium early maturity. Small vine size. Red-purple flower color.

Uses: dual

Strength:

Weakness: heat sprouts, light skin, medium

Cutting Notes: golden skin, blocky, light russeting

A08112-7R-Round Red. Parentage (A99331-2RY x COA01406-1R). Cross was made and selected in Idaho. Medium-early maturity. Medium vine size Dk Red-Purple flower color.

Uses: fresh

Strength: very nice, small, uniform size, uniform shape, parent for small size and skin color, intense skin color, good shape, high tuber number

Weakness: heat sprouts late?, some skin netting, some variation in skin color, some tubers are more intense than others, few eyes,

Cutting Notes: intense red skin color, oval

A10021-5TE-Very Long Russet. Parentage (A03921-2 x Mountain Gem Rus). Cross was made and selected in Idaho. Early maturity. Small vine size. White flower color.

Uses: dual

Strength:

Weakness: heat sprouts+, pointed+ light skin, knobs

Cutting Notes: nice russet skin

AC11494-6W-Oval White. Parentage (A05158-3C x 00-3115-11). Cross was made and selected in Colorado. Medium late maturity. Medium vine size. White flower color.

Uses: chip

Strength: bright white flesh, nice

Weakness: deep bud end, compressed

Chip Notes: FC=1.0, CR=3.6, 20% Good chip

AOR08540-1-Oblong Russet. Parentage (A02782-2 x PA01N22-5). Cross was made in Idaho, tuberling produced and selected in Oregon. Medium maturity. Medium-large vine size. White flower color.

Uses: fresh

Strength: nice shape, medium size, uniform size, uniform shape high tuber number+, long

Weakness: pointed skinny, many eyes

AOR10204-3-Long Russet. Parentage (COA05110-3 x A05066-9). Cross was made in Idaho, tuberling produced and selected in Oregon. Early maturity. Medium vine size. Lavender-Purple flower color.

Uses: fresh

Strength: nice skin and shape+, light eyes long, pretty eyes

Weakness: knobs, heat sprouts, pointed++

AOR12197-4-Oblong Parentage (?). Cross was made in Idaho, tuberling produced and selected in Oregon

Uses: chip

Strength:

Weakness:

Chip Notes: FC=2.7, CR=3.8, 13% Good chip

AORTX09033-11W-Oblong White. Parentage (CO96141-4W x Ivory Crisp). Cross was made in Idaho, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength:

Weakness: some dark bruising a little flat, DROP, mixed white and yellow??

Chip Notes: FC=2.0, CR=2.4, 37% Good chip

Cutting Notes:

AORTX09037-1W/Y-Round White. Parentage (Fasan x Ivory Crisp). Cross was made in Idaho, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: high tuber number uniform size, uniform shape,

Weakness: road map dislike skin

Chip Notes: FC=2.6, CR=3.1, 32% Good chip

Cutting Notes:

AORTX09037-4W/Y-Round White. Parentage (Fasan x Ivory Crisp). Cross was made in Idaho, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: impressive high tuber number, very good size for chippers, uniform size, uniform shape

Weakness: DROP, non-uniform yellow flesh, washed-out yellow flesh, some bruising, yellow flesh but not light, lighter tuber ring

Chip Notes: FC=2.5, CR=3.3, 33% Good chip

Cutting Notes:

AORTX09037-5W/Y-Round White. Parentage (Fasan x Ivory Crisp). Cross was made in Idaho, tuberling produced in Oregon, and selected in Texas.

Uses: chip

Strength: nice, high tuber number, buff skin enlarged lenticels, road map, ugly skin, very light yellow skin

Weakness: deep bud end

Chip Notes: FC=2.5, CR=2.3, 55% Good chip

Cutting Notes: too sprouted

AORTX11913-3Wre-Round White-Red Eye. Parentage (A03576-5Y x NDA050237B-1R). Cross was made in Idaho, tuberling produced in Oregon, and selected in Texas.

Uses: fresh

Strength: BOT, high tuber number, uniform shape, uniform size

Weakness:

Cutting Notes: white flesh, vascular discoloration

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

Uses: fresh

Strength: nice shape, nice skin  
Weakness: smallish, few tubers+

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

Uses: fresh  
Strength: large, nice+, long, BOT  
Weakness:

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

Uses: chip  
Strength: buff skin, larger  
Weakness: tubers are not oval to oblong  
Chip Notes: FC=1.2, CR=3.3, 21% Good chip.  
Cutting Notes:

ATTX05175s-1R/Y-Round Red/Yellow. Parentage (A99331-2RY x COA99261-IRY). Cross was made in Idaho, tuberling produced in Texas, and selected in Texas.

Uses: fresh  
Strength: high tuber number, small uniform size, and shape+, all small+, nice, very nice  
Weakness: heat sprouts, compressed tubers  
Cutting Notes: very nice skin, intense yellow flesh, Kelly likes

ATTX07042-3WY-White. Parentage (Western russet EM x A02086-10 EM 500). Cross was made in Idaho, tuberling produced in Texas, and selected in Texas. Early-Medium maturity. Medium vine size. White flower color.

Uses: chip  
Strength: BOT+, impressive high tuber number+, very nice, smooth skin, yellow flesh  
Weakness:  
Chip Notes: FC=2.9, CR=3.2, 11% Good chip  
Cutting Notes:

ATTX07230-4Yre/Y-Round Yellow Red Eye/Yellow. Parentage (AO0286-3Y y x Modoc red 500). Cross was made in Idaho, tuberling produced in Texas, and selected in Texas.

Uses: fresh  
Strength: nice, high tuber number+, parent for yield, red eyes and shadow very round  
Weakness: IBS dislike skin pattern  
Cutting Notes:

ATTX10007-1Ru-Long Russet. Parentage (A02060-3TE x A05013-5TE). Cross was made in Idaho, tuberling produced in Texas, and selected in Texas.

Uses: fresh  
Strength: BOT, enter in TC, parent, light skin, good shape, large, very nice shape, parent for smooth skin long  
Weakness:  
Cutting Notes:

ATTX10265-4R/Y-Oblong Red/Yellow. Parentage (A02267-2PY x US 147-96RIY). Cross was made in Idaho, tuberling produced in Texas, and selected in Texas.



Uses: fresh

Strength: high tuber number, uniform size and shape bright red skin color shiny, very intense yellow flesh, shiny, smooth skin intense flesh, nice skin-flesh combination

Weakness: a little flat+, 2/10 had internal rot, some sticky stolons

Cutting Notes: nice skin and flesh combination

ATTX10333-1W/Y-Round White. Parentage (AFA3976TPS-1 x NY139). Cross was made in Idaho, tuberling produced in Texas, and selected in Texas.

Uses: chip

Strength: medium-large

Weakness: some knobs,

Chip Notes: FC=3.0, CR=3.0, 55% Good chip

Cutting Notes: yellow flesh

ATTX10378-3Ru/Y-Oblong Russet/Yellow. Parentage (Granola x CO00412-5W/Y). Cross was made in Idaho, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: nice yellow flesh+, golden russet skin, nice, parent+, yellow flesh, good shape, light russet

Weakness: road map skin, bad skin, DROP

Cutting Notes: dislike shape

ATTX11633-1RYPinto/Y-Round Red Yellow pinto/Yellow. Parentage (Pinto x ND8555-8R). Cross was made in Idaho, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: compressed, interesting pinto pattern, small, round, uniform yellow flesh, pomme de Terre, apples, very round

Weakness: deep bud end+, some heterogeneity in skin intensity mixed skin color deep eyes, not a uniform pinto pattern, some lighter and darker red,

Cutting Notes: pinto Red LaSoda

ATTX98444s-16R/Y-Oblong Red/Yellow. Parentage (A83360-9R x T48YF). Cross was made in Idaho, tuberling produced in Texas, and selected in Texas.

Uses: fresh

Strength: small+, nice+

Weakness:

Cutting Notes: very intense yellow flesh, Kelly likes

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

Uses: fresh

Strength: shiny

Weakness: pointed+, not uniform shape, DROP, mixed flesh color white and yellow, pears, dislike skin

ATX06264s-4R/Y-Round Red/Yellow. Parentage (A99331-2RY x Durango Red). Cross was made in Idaho and selected in Texas.

Uses: fresh

Strength: nice skin very nice skin color, high tuber number, intense skin color

Weakness: some pointed, attached stolons borderline tuber type (size, shape, color), some skin color variation between tubers, a little flat

Cutting Notes: blue-green fungi on the skin

ATX08322-1Ru-Oblong Russet Parentage (A02516-102LB x PALB0302-1). Cross was made in Idaho and selected in Texas.

Uses: fresh

Strength:

Weakness:

ATX11549-1P/Y-Oval Purple/Yellow. Parentage (Huckleberry Gold x ND8555-8R). Cross was made in Idaho and selected in Texas.

Uses: fresh

Strength: high tuber number, nice, yellow flesh, BOT, nice skin flesh combination, nice skin

Weakness:

Cutting Notes: large tubers

ATX11586-2R/Y-Oblong Red/Yellow. Parentage (A05173-2RY x Mila). Cross was made in Idaho and selected in Texas.

Uses: fresh

Strength: uniform size and shape, shiny+, high tuber number nice, intense red skin, nice, smooth skin, oval

Weakness:

Cutting Notes:

ATX11684F-2W/Y-Long White/Yellow. Parentage (Nicola x POR02PG26-5. Cross was made in Idaho and selected in Texas.

Uses: fresh

Strength:

Weakness: fingerling, not great but better than Banana, yellow skin, yellow flesh

ATX13018-2Ru-Oblong Russet. Parentage (A06015-13TE x A06084-1TE). Cross was made in Idaho and selected in Texas.

Uses: fresh

Strength:

Weakness: road map skin, DROP, bad skin, dislike skin

Cutting Notes:

ATX13134-3W/Y-Round White/Yellow. Parentage (NDA081451CB-1CY x CO02321-4W). Cross was made in Idaho and selected in Texas. Medium-late maturity.

Uses: chip

Strength: yellow flesh, very high tuber number, uniform size, uniform shape

Weakness: various sizes

Chip Notes: FC=3.0, CR=2.3, 45% Good chip

Cutting Notes: yellow flesh

ATX13287-1Ru Parentage (A07774-2VR x CO99053-3Ru). Cross was made in Idaho and selected in Texas.

Uses: fresh

Strength: high gravity, parent, blocky, very nice, blocky, BOT

Weakness:

ATX15008-1Ru-Oblong Russet. Parentage (A09001-14TE x A09004-2TE). Cross was made in Idaho and selected in Texas.

Uses: fresh

Strength: nice shape and size, high tuber number

Weakness:

ATX15025-2Ru-Long Russet. Parentage (A10089-7TE x A09004-2TE). Cross was made in Idaho and selected in Texas.

Uses: fresh

Strength: nice shape+ and skin type

Weakness:

ATX15097-1Ru-Long Russet. Parentage (Castle Russet x A98345-1). Cross was made in Idaho and selected in Texas.

Uses: fresh

Strength: large+, very nice, very good shape

Weakness:

ATX15099-1Ru-Oblong Russet. Parentage (Castle Russet x A10007-3). Cross was made in Idaho and selected in Texas.

Uses: fresh

Strength: good shape, nice skin, very nice shape,

Weakness few tubers

B2869-29-White. Parentage(B0564-8x B1316-5). Developed by USDA-ARS Beltsville.

Uses: chip

Strength:

Weakness: deep bud end+, some compressed tubers

Chip Notes: FC=1.0, CR=3.7, 10% Good chip

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

Uses: fresh

Strength:

Weakness: many knobs, few tubers, chain tubers+, extreme heat sprouts,+ very deformed, light sprouts

Cutting Notes: nice seed

Chieftain-Round Red. Parentage (la1027La1027-18 x La1354). Cross was made and selected at Iowa State University.

Uses: fresh

Strength: large high tuber number, BOT, nice skin color, uniform shape, uniform size

Weakness: IBS a little flat,

Cutting Notes:

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

Uses: dual

Strength: nice skin, nice, high tuber number nice shape, uniform size, uniform shape

Weakness: small heat sprouts

CO10064-1W/Y-Round White/Yellow. Parentage (CO00412-5W/Y x CO04099-4W/Y). Cross was made and selected in Colorado. Medium maturity. Large vine size. Purple flower color.

Uses: fresh

Strength: high tuber number, uniform size  
Weakness: pink eyes small, buff skin, 10% ZC  
Cutting Notes: intense yellow flesh, parent

CO10073-7W-Round White. Parentage (CO02321-4W x CO02024-9W). Cross was made and selected in Colorado. Late maturity. Large vine size. White flower color.

Uses: chip  
Strength: very nice, high tuber number, uniform size and shape  
Weakness:  
Chip Notes: FC=1.0, CR=1.9, 54% Good chip

CO10076-4W-Round White. Parentage (CO03243-3W x CO02024-9W). Cross was made and selected in Colorado. Medium maturity. Medium small vine size. White flower color.

Uses: chip  
Strength:  
Weakness: internals,  
Chip Notes: FC=1.0, CR=3.6, 17% Good chip  
Cutting Notes:

CO10085-1RU-Parentage (CO03364-5RU x Silverton Russet). Cross was made and selected in Colorado. Medium-late maturity. Medium vine size.

Uses: fresh  
Strength: nice skin  
Weakness: sprouts, short few tubers, heat sprouts++ many smalls, non-uniform size chain tubers  
Cutting Notes:

CO10087-4RU-Long Oblong Russet. Parentage (CO03367-1RU x Mercury Russet). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

Uses: fresh  
Strength: high tuber number, nice, blocky very nice shape, size and appearance, uniform size and shape, pretty, BOT, parent  
Weakness: heat sprouts  
Cutting Notes:

CO10091-1RU-Oblong Russet. Parentage (CO03371-4RU x CO98067-7RU). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White flower color.

Uses: fresh  
Strength: intense russet  
Weakness: few tubers, not uniform size, small pointed  
Cutting Notes:

CO10098-5W/Y-Oblong White/Yellow. Parentage (CO04099-3W/Y x CO04099-4W/Y). Cross was made and selected in Colorado. Medium maturity. Medium vine size. Red-purple flower color.

Uses: fresh  
Strength: small, high tuber number, uniform size and shape very intense yellow flesh  
Weakness: heat sprouts+  
Cutting Notes: almost orange flesh color

CO11009-3RU-Russet. Parentage (Fortress Russet x AC96052-1RU). Cross was made and selected in Colorado. Medium maturity. Large vine size.

Uses: process

Strength: nice russet skin long, nice size, good skin+, uniform shape, uniform size, nice shape nice, high tuber number

Weakness: skinny thin, some pointed+, soft stolon ends

Cutting Notes:

CO11023-2W-White. Parentage (AC03433-1W x NY138). Cross was made and selected in Colorado. Medium maturity. Medium vine size.

Uses: chip

Strength: nice BOT

Weakness:

Chip Notes: FC=1.0, CR=4.1, 0% Good chip

Cutting Notes:

CO11023-9W-White. Parentage (AC03433-1W x NY138). Cross was made and selected in Colorado. Late maturity. Medium-large vine size.

Uses: chip

Strength:

Weakness: mixed yellow and white, IBS, creamy

Chip Notes: FC=1.2, CR=1.8, 60% Good chip

Cutting Notes:

CO11037-5W-Oval White. Parentage (BC0894-2W x W2133-1). Cross was made and selected in Colorado. Medium maturity. Medium-large vine size.

Uses: chip

Strength:

Weakness: mixed shapes from round to oblong, not round, not a chipper

Chip Notes: FC=1.0, CR=3.7, 17% Good chip

Cutting Notes:

CO11250-1W/Y-Round White. Parentage (CO99045-1W/Y x POR02PG26-5). Cross was made and selected in Colorado. Medium-late maturity. Large vine size.

Uses: fresh

Strength: medium size, nice yellow flesh

Weakness: heat sprouts, skin road mapping, netted skin pink eyes, buff skin

Cutting Notes: a little flat, oblong, intense yellow flesh

CO11266-1W/Y-White Parentage (CO03060-2W/Y x A99433-5Y). Cross was made and selected in Colorado. Late maturity. Medium vine size.

Uses: fresh

Strength: high tuber number

Weakness: some skin netting, light sprouts, some pointed, dislike skin, heat sprouts small, buff skin, pink eyes

Cutting Notes: pink eyes, intense yellow flesh

CO12152-1RU-Long Russet. Parentage (Dakota Russet x CO06035-3RU). Cross was made and selected in Colorado. Medium maturity. Small vine size. Light purple flower color

Uses: dual

Strength: nice skin uniform size, uniform shape

Weakness: areas of alligator skin enlarged lenticels, short tubers heat sprouts, light skin, medium size

CO12235-3W-Round White. Parentage (AC00206-2W x AC03433-1W). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White flower color

Uses: chip

Strength:

Weakness:

Chip Notes: FC=1.2, CR=2.6, 50% Good chip

CO12293-1W-Oval White. Parentage (CO02024-9W x ND7519-1). Cross was made and selected in Colorado. Medium-late maturity. Large Medium-late vine size. White flower color.

Uses: chip

Strength:

Weakness: bruised,

Chip Notes: FC=1.0, CR=2.7, 30% Good chip

CO12378-1RU-Oblong Russet. Parentage (CO06035-3RU x AO02183-2). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White flower color

Uses: dual

Strength: nice size and shape

Weakness: small, skin stitches, heavy skin, short, heat sprouts, many growth cracks, herbicide damage?

COTX04050s-1P/P-Oblong Purple/Purple. Parentage (CO97215-2P/P x CO97306-2P/P). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: extremely intense purple flesh

Weakness: heat sprouts, skinning grey skin careful! mixed white and purple flesh 50%, DROP

Cutting Notes: intense purple flesh, some variation in flesh color

COTX04193s-2R/Y-Oblong Red/Yellow. Parentage (ATC98515-1R/Y x ND3574-5R). Cross was made in Colorado and selected in Texas. Medium-early maturity. Small vine size.

Uses: fresh

Strength: nice, shiny, very smooth intense skin color, nice, high tuber number, uniform size, uniform shape, nice, smooth skin

Weakness:

Cutting Notes: intense flesh color, Kelly has dropped

COTX08063-2Ru-Russet. Parentage (A93157-6LS x A99073-1). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: high tuber number, very nice, nice shape, use as a parent, high gravity, PVY resistant?

Weakness: skinny bruised skin

Cutting Notes:

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

Uses: fresh

Strength: BOT+, nice, many tubers, parent

Weakness: it had a high virus load in Colorado, heat sprouts, bruises dark

Cutting Notes:

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

Uses: fresh

Strength: parent for fingerlings, purple marble BOT

Weakness: it got quite big, it should be grown for a shorter period of time, and closer spacing  
pigmentation spots around the edges purple flesh with white sections heat sprouts, chain tubers

COTX09022-3RuRE/Y-Oblong Red Eye Russet/Yellow. Parentage (A00286-3Y x CO99100-1RU) Cross was made in Colorado and selected in Texas. Medium early. Large vine size. White flower color.

Uses: fresh

Strength: uniform size+, nice, unique pattern, pink eyes nice, high tuber number+, BOT

Weakness:

Cutting Notes: sprouting, intense yellow flesh

COTX10012-1Wrdspl/Y-White-red splash/Yellow. Parentage (A00286-3Y x ATC00293-1W/Y) Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: buff skin, dislike skin texture small, heat sprouts, few tubers

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

Uses: fresh

Strength: very nice skin+, parent, nice shape+, medium, good size, BOT

Weakness: pointed, DROP, heavy skin

Cutting Notes: heavy russet skin

COTX10118-4Wpe/Y- Round White Purple Eye. Parentage (07S019 x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: very high tuber number, nice, BOT, PVP, amethyst slashed skin, intense yellow flesh, yellow market, very high tuber yield, uniform size and shape, relatively small unique skin color combination, purple eyes, and shadow

Weakness:

Cutting Notes: very intense yellow flesh

COTX10138-15Wpe/Y-White Purple Eye/Yellow. Parentage (AC99329-7PW/Y x AC03534-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: BOT, unique, dark purple eyes and eye shadow, very round, uniform size and shape,

Weakness: visible lenticels, mixed skin pattern some do not have purple eyes, road mapping, dark purple eyes, many potatoes do not have the dark purple pattern but seem to have the same shape and overall tuber type,

Cutting Notes:

COTX12235-2W-Round White. Parentage (AC00206-2W x AC03433-1W). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength: uniform size, uniform shape

Weakness: bruising, all small, some pink tint on stem end, golf balls

Chip Notes: FC=1.0, CR=1.9, 67% Good chip

Cutting Notes:

COTX13029-2Ru/Y-Round Russet/Yellow. Parentage (AC06358-2W/Y x CO07039-3RU/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: keep an eye on this one, intense yellow flesh, round, Yellow Rose class?, it does not need turmeric, tough, round, heavy russet, parent for yellow russets, produce minitubers, Geode very round, high tuber number, heavy russet, Rocky B

Weakness:

Cutting Notes: round, very intense yellow flesh, unique shape-yellow flesh combination

COTX13230-1W-Round White. Parentage (AC06358-2W/Y x CO07044-3RU/Y). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength:

Weakness: skinning, bruising, enlarged lenticels

Chip Notes: FC=1.0, CR=3.1, 35% Good chip

Cutting Notes:

COTX13231-1W-Round White. Parentage (AC98016-6W x Wischip). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength: high tuber number, uniform size, uniform shape

Weakness:

Chip Notes: FC=1.0, CR=3.8, 3% Good chip

Cutting Notes:

COTX13231-4W-Round White. Parentage (AC98016-6W x Wischip). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength:

Weakness: medium-large, scab

Chip Notes: FC=1.0, CR=3.3, 22% Good chip

Cutting Notes:

COTX15083-1R-Red. Parentage (CO01198-2R x NDA050237B-1R). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: very round, intense skin color, snow-white flesh, BOT++, very uniform size and shape, intense skin color, high tuber number, enter in TC, produce minitubers

Weakness: heat sprouts some sticky stolons

Cutting Notes:

COTX15111-1R-Oval Red. Parentage (CO05228-4R x ND8555-8R). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice shape and skin color, very round, uniform size and shape

Weakness:

COTX15111-3R-Oval Red. Parentage (CO05228-4R x ND8555-8R). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: white flesh nice, very nice intense skin very intense skin, share with Kelly



Weakness: few tubers, very small, very round

COTX15123-1Ru-Long Russet. Parentage (CO07205-4RU x A06021-1T). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: many smalls, a little flat, medium

COTX15123-2Ru-Oblong Russet Parentage (CO07205-4RU x A06021-1T). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness:

COTX15123-3Ru-Oblong Russet. Parentage (CO07205-4RU x A06021-1T). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: small+, drop++, alligator skin, dislike skin

COTX15169-1Ru-Oblong Russet. Parentage (CO09139-7RU x A06021-1T). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: good russet skin

Weakness: short

COTX15169-2Ru-Oblong Russet. Parentage (CO09139-7RU x A06021-1T). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: drop+, angular tubers, few tubers, very small, oval

COTX15182-2Ru-Long Russet. Parentage (CO09278-2RU x A06021-1T). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: soft stolon ends, fingerling russet, it grew too much, less time would be recommended, plant closer and under more stress, parent, cross with fingerlings

COTX15271-1Ru-Oblong Russet. Parentage (A03921-2 x Mercury Russet). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: impressive, high tuber number+, very nice shape, nice russet, BOT+, nice, parent

Weakness:

Cutting Notes: nice size and shape, KEEP

COTX16005-1Ru-Oblong Russet. Parentage (A03921-2 x Classic Russet). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness:

COTX16013-5W-Round White. Parentage (AC00206-2W x AC03433-1W). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength: very nice

Weakness: some compressed

Chip Notes: FC=1.0, CR=3.0, 22% Good chip

COTX16054-1Ru-Round Russet. Parentage (CO05068-1RU x A02062-1TE). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength:

Weakness: buff, not russet

Chip Notes: FC=1.0, CR=1.7, 55% Good chip

COTX16078-2W-Round White. Parentage (CO10032-8W x Wischip). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength:

Weakness:

Chip Notes: FC=1.5, CR=3.4, 28% Good chip

COTX16078-4W-Round White. Parentage (CO10032-8W x Wischip). Cross was made in Colorado and selected in Texas.

Uses: chip

Strength: nice shape

Weakness: low tuber number

Chip Notes: FC=1.0, CR=3.8, 10% Good chip

COTX16078-9PWpinto/Y-Round Purplepinto/Yellow. Parentage (CO10032-8W x Wischip). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice shape, unique pattern, parent, pink-red flesh even under white skin, pinto white red skin

Weakness: attached dry stolons

COTX16209-1Ru-Oblong Russet. Parentage (CO09076-3RU x CO07049-1RU). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: nice skin

Weakness: skinny++, small+

COTX16212-2Y/Y-Round Yellow. Parentage (CO09128-3W/Y x CO09128-5W/Y). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength: very nice flesh, small yellow tubers, similar to 175s, beautiful flesh, nice

Weakness:

COTX16217-2Ru-Oblong Russet. Parentage (CO09337-1RU x OR05039-4). Cross was made in Colorado and selected in Texas.

Uses: fresh

Strength:

Weakness: large

Dal17001RuRub-Oblong Russet. Parentage (??).

Uses: fresh

Strength: nice skin, good shape+, good skin

Weakness: non-uniform size pointed small, DROP+

Cutting Notes:

Mackinaw-Round White. Parentage (Saginaw Chipper x Lamoka). Developed by Michigan State University.

Medium-late maturity. Medium vine size. White flower color.

Uses: chip

Strength: Resistant to PVY and late blight, tolerance to common scab, low incidence of internal defects, high specific gravity, resistance to Rhizoctonia uniform size and shape

Weakness: Lamoka is a parent; blackspot bruise susceptibility is comparable to Snowden deep bud end, larger tubers are a little flat, creamy flesh

Chip Notes: FC=1.1, CR=3.4, 13% Good chip

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

Uses: fresh

Strength: intense skin

Weakness: few eyes, very few tubers++

MSW474-1-Round White. Parentage (MSN190-2 x MSP516-A). Developed by Michigan State University.

Uses: chip

Strength:

Weakness: deep bud end++, compressed++, buff skin, prominent shoulders+

Chip Notes: FC=1.0, CR=2.4, 30% Good chip

MSZ063-2-Round White. Parentage (MSR148-4 x McBride). Developed by Michigan State University.

Uses: chip

Strength: nice skin, good size

Weakness: deep bud end, compressed

Chip Notes: FC=1.0, CR=3.3, 20% Good chip

MSZ242-13-Round White. Parentage (MSR169-8Y x MSU383-A). Developed by Michigan State University.

Uses: chip

Strength:

Weakness: buff skin

Chip Notes: FC=1.0, CR=3.3, 24% Good chip

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

Uses: fresh

Strength: smooth skin, nice not as flat as I remember

Weakness: heat sprouts, small, smaller than usual a little flat, some pink in yellow flesh pink streaks in the flesh 10%,

Cutting Notes: pink streaks in the flesh, 50 %

NDTX071258B-1R-Red. Parentage (NY138 x ND 4659-5R). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: bright red skin+, very high tuber number

Weakness: dark red eyes, deep eyes, zipper eyes, some skin color variation

NDTX081451CBs-1Y/Y-Oblong Yellow/Yellow. Parentage (Dakota Diamond x Gala) Cross was made in North Dakota and selected in Texas. Late maturity. Large vine size. White flower color.

Uses: fresh

Strength: send to Jas (CA)impressive high yield++, parent, small-medium tubers BOT, shiny, smooth, tissue culture, parent, IMPRESSIVE HIGH TUBER NUMBER, BOT uniform size, uniform shape

Weakness: internal issues in large tubers, watch out for hollow heart

Cutting Notes: nice, parent

NDTX091886-3P/P-Round Purple/ Purple. Parentage (COND 04082-8RR x ND 7519-1). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: very intense purple flesh, uniform purple flesh, very dark skin, hard to cut very high tuber number

Weakness: grayish skin, flesh mix purple, and yellow heat sprouts, the skin has some netting

NDTX092237C-2P/W-Oblong White. Parentage (ND 049326C-2P x ND 7834-2P). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength:

Weakness: very large, white and purple flesh some rotten, white flesh with purple vascular wide ring noticeable lenticels grayish

Cutting Notes: white flesh with purple splashes

NDTX113030C-3W-Oblong White. Parentage (Dakota Diamond x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: very white flesh, oval

Weakness:

Chip Notes: FC=1.0, CR=2.6, 47% Good chip

Cutting Notes:

NDTX12135-1W-Round White. Parentage (ND8559-20 x M3). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness: mixed white and yellow flesh skinning, bruised skin+,

Chip Notes: FC=1.0, CR=3.3, 26% Good chip

Cutting Notes:

NDTX12203AB-1W-Round White. Parentage (ND028598c-1 x M2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: nice shape, several sizes Ryadg based on MAS, parent, nice shape

Weakness: scab careful: mixed white and yellow flesh

Chip Notes: FC=1.0, CR=2.5, 57% Good chip

Cutting Notes: nice skin, uniform size and shape

NDTX12248Y-1R-Round Red. Parentage (95043.11 x Dakota Ruby). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: nice medium size, nice skin color nice, shiny, very round

Weakness: low tuber number

Cutting Notes:

NDTX1244-3W/Y-Round White. Parentage (AND07358-1Y x ND7192-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: high tuber number+, nice medium-large, nice shape, nice skin

Weakness: angular, attached stolons, skinning, dark bruising

Chip Notes: FC=3.0, CR=2.3, 31% Good chip

Cutting Notes:

NDTX1246-5W/Y-Oval White. Parentage (AND07358-1Y x ND8304-2). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: very high tuber number, good skin, thin russet, move to yellows?

Weakness:

Chip Notes: FC=3.2, CR=1.8, 77% Good chip

Cutting Notes:

NDTX13280CB-3W-Oval White. Parentage (ND081452CB-1 x ND7519-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: high tuber number, some large

Weakness: IBS mainly in vascular area+, DROP+

Chip Notes: FC=1.0, CR=3.2, 30% Good chip

Cutting Notes: nice

NDTX13315CB-1W-Round White. Parentage (ND092181CB-16 x ND7519-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: very smooth skin

Weakness:

Chip Notes: FC=1.0, CR=3.8, 0% Good chip

Cutting Notes:

NDTX14156-1R/Y-Round Red/Yellow. Parentage (ATND99331-2PintoY x ND028742b-12PEY). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: intense red skin

Weakness: flat, nonuniform size/shape, flat

NDTX14156-2RWpinto/Y-Oval Red pinto/Yellow. Parentage (ATND99331-2PintoY x ND028742b-12PEY). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: river stone, most are pinto, some are completely red, two groups: pinto and all red, most are pinto, selected only pinto

Weakness:

NDTX14156-3P-Oval Purple. Parentage (ATND99331-2PintoY x ND028742b-12PEY). Cross was made in North Dakota and selected in Texas.

Uses: fresh

Strength: River Stone, promote, white flesh with medium purple sections, surprising interior, very smooth, shiny

Weakness: very flat, white flesh and purple streaks

NDTX14247CAB-1W-White. Parentage (ND028799C-3 x ND102809AB-2). Cross was made in North Dakota and selected in Texas.

Uses: chip[

Strength: very nice, BOT, nice

Weakness:

Chip Notes:FC=1.0, CR=2.6, 55% Good chip

NDTX14247CAB-2W-White. Parentage (ND028799C-3 x ND102809AB-2). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: impressive high tuber number, BOT++

Weakness:

Chip Notes:FC=1.0, CR=3.2, 23% Good chip

NDTX14252B-2W-White. Parentage (ND028888cB-1 x ND860-2). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: high tuber number, small, uniform size and shape

Weakness: drop, internals

Chip Notes: FC=1.0, CR=3.8, 17% Good chip

NDTX14263BC-3W-White. Parentage (ND028984B-1 x ND113306C-2). Cross was made in North Dakota and selected in Texas.

Uses:

Strength: high tuber number nice++, uniform size and shape+

Weakness: small+, drop, internals

Chip Notes: FC=1.0, CR=2.4, 48% Good chip

NDTX1432Y-2Y/Y-Round Yellow/Yellow. Parentage (93057.1 x ND7799c-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: snaps

Weakness: purple eye deep bud end yellow,

Chip Notes: FC=3.0, CR=3.7, 0% Good chip

Cutting Notes:

NDTX14362AB-1W-Round White. Parentage (ND102809AB-2 x ND028984B-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: very nice+, very round, BOT

Weakness:

Chip Notes: FC=1.0, CR=1.5, 80% Good chip

Cutting Notes:

NDTX1444-5W-Round White. Parentage (Dakota Crisp x ND7799c-1). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength:

Weakness: bruised skin

Chip Notes: FC=1.0, CR=2.6, 27% Good chip

Cutting Notes:

NDTX1482YB-1W-Round White. Parentage (Eva x Missaukee). Cross was made in North Dakota and selected in Texas.

Uses: chip

Strength: BOT, small, golf balls, uniform size and shape, high tuber number, nice it could be a small, uniform size, smooth skin, SMALL?

Weakness:

Chip Notes: FC=1.0, CR=2.3, 55% Good chip

Cutting Notes:

NDTX4784-7R-Round Red. Parentage (ND3574-5R x ND2050-1R). Cross was made in North Dakota and selected in Texas. Early maturity. Medium vine size. Lavender flower color.

Uses: fresh

Strength: produce good seed, promote it, very good, parent, nice skin color very nice, check historical data, check storage and dormancy,

Weakness: growth cracks, DROP

Cutting Notes: intense skin color

OR12133-10-Oblong-long Russet. Parentage (A98345-10 x Silverton Russet) Cross was made and selected in Oregon. Medium-early maturity. Large vine size. White flower color.

Uses: dual

Strength: high tuber number, nice

Weakness: light skin, small pointed, not uniform skin not russet skin, skinny

Cutting Notes:

Paroli-Round White. Parentage (??). Variety produced by Norika. Early maturity. Medium vine size. White flower color

Uses: fresh

Strength: BOT for yellow class, uniform size and shape intense yellow flesh, high tuber number, buttery, soft cut, impressive high yield,

Weakness: enlarged lenticels, dislike skin non-uniform shape (small are oval, large are oblong) and size, noticeable stolon attachment especially in larger tubers

Petoskey-Round White. Parentage (Beacon Chipper x MSG227-2). Cross was made and selected by Michigan State University. Medium to late Maturity. Medium vine size.

Uses: chip

Strength: nice,

Weakness: deep bud end, compressed, buff skin, a little flat

Chip Notes: FC=1.0, CR=3.4, 0% Good chip

POR12NCK50-1-Oblong Russet. Parentage (PA99N82-4 x Western Russet). Cross was made in Prosser, WA, tuberling grown and selected in Oregon. Medium maturity. Large vine size. Lavender-Purple flower color.

Uses: dual

Strength: nice skin and shape, , very nice  
Weakness: heat sprouts, medium size  
Cutting Notes:

POR14PG22-3-Round White. Parentage (POR10PG3-3 x 2xOR2012). Cross was made in Prosser, WA, tuberling grown and selected Oregon. Early-medium maturity. Large vine size. White flower color.

Uses: fresh  
Strength: very high tuber number, uniform size, and shape, shiny, all smalls uniform size,  
Weakness: few tubers, late?, heat sprouts flesh white and creamy mixed  
Cutting Notes:

PORTX03PG25-2R/R-Round Oblong Red/Red. Parentage (PA97B35-1 x PA99P7-2). Cross was made in Prosser, WA, tuberling grown in Oregon and selected in Texas.

Uses: fresh  
Strength: unique shape, oblong to fingerling, BOT, hard to cut  
Weakness:  
Cutting Notes:

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

Uses: fresh  
Strength: BOT, high tuber number, very intense skin color, purple marble  
Weakness: road mapping, dirty look, netted skin, some skin netting, silver scurf?

Ranger Russet-Long Russet. Parentage (Butte x A6595-3). Cross was made and selected in Idaho. Released in 1991 by USDA-ARS and the Colorado, Idaho, Oregon, and Washington Agricultural Experiment Stations. Medium-late maturity. Large vine size. White flower color.

Uses: fresh  
Strength: high tuber numbers,  
Weakness: heat sprouts+++ many eyes, deeper eyes than others skinny, pointed  
Cutting Notes:

Red LaSoda-Oblong Red. Parentage (Triumph x Katahdin). Cross was made and selected in Louisiana. Red LaSoda is a clonal selection from LaSoda made by Louisiana State University. Medium maturity. Medium-large vine size. Purple flower color.

Uses: fresh  
Strength: impressive high yield high tuber number, very large potatoes, nice skin color, nice  
Weakness: big, a little flat deep eyes, deep bud end  
Cutting Notes: Rhizoctonia

Reveille Russet-Oblong Russet. Parentage (A81473-2 x A8343-12) Cross was made in Idaho and selected in Texas. Medium maturity. Medium vine size. Lavender flower color.

Uses: fresh  
Strength: nice shape, nice size BOT  
Weakness: feels soft, not mature?, shrinking, some knobs  
Cutting Notes:

Russet Burbank-Long Russet. Luther Burbank reported the origin of Russet Burbank in 1914 as a chimeric selection from the variety Burbank by Lou Sweet. Lou Sweet was a potato grower in the western slope area of Colorado and was President of the Potato Association of America in 1920. Late maturity. Large vine size. White flower color.



Uses: fresh  
Strength: high tuber number, very white flesh+  
Weakness: bad shape, heat sprout, knobs all deformed skinny++, stolon end rot, misshapen  
Cutting Notes:

Russet Norkotah 223-Oblong-Long Russet. Parentage (ND95264Ru x ND9687-5Ru). Russet Norkotah cross was made and selected in North Dakota. Russet Norkotah 278 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah. Early maturity. Medium vine size. White flower color.

Uses: fresh  
Strength: nice, good skin, good shape, nice russetting  
Weakness: bruises dark  
Cutting Notes:  
Cutting Notes: soft rot ends

Russet Norkotah 278-Oblong-Long Russet. Parentage (ND95264Ru x ND9687-5Ru). Russet Norkotah cross was made and selected in North Dakota. Russet Norkotah 278 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah. Early maturity. Medium vine size. White flower color.

Uses: fresh  
Strength: nice, good size, shorter than RN296  
Weakness:  
Cutting Notes: nice shape,

Russet Norkotah 296-Oblong-Long Russet. Parentage (ND95264Ru x ND9687-5Ru). Russet Norkotah cross was made and selected in North Dakota. Russet Norkotah 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  
Strength: very nice, longer than regular Russet Norkotah  
Weakness: bruises dark  
Cutting Notes: nice shape

Russet Norkotah-Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Released in 1987 by the North Dakota Agricultural Experiment Station. Early-medium maturity. Medium vine size. Corolla is white, and anthers are yellow-orange.

Uses: fresh  
Strength: nice, BOT+, nice shape, good skin  
Weakness:  
Cutting Notes:

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: dual  
Strength:  
Weakness: MANY knobs+, light skin, many heat sprouts pointed  
Cutting Notes:

Sierra Gold-Round-Oblong Russet /Yellow. Parentage (Krantz x Delta Gold). Cross was made and selected in Texas. Early maturity. Medium vine size.

Uses: fresh  
Strength: nice. oval to oblong, nice flesh  
Weakness: bruises dark

Cutting Notes: parent

Sierra Rose-Oblong Red/Yellow. Parentage (A90601-2RDY x Mazama). Cross was made in Idaho, tuberling produced in Texas, and selected in Texas. Early maturity. Medium vine size. Purple flower color.

Uses: fresh

Strength: BOT++, parent very nice,

Weakness: silver scurf?, mixed white and yellow flesh

Cutting Notes: nice

Snowden-Oblong White. Parentage (B5141-6 x Wischip). Cross was made and selected at the University of Wisconsin. Medium-late maturity. Large vine size. White flower color.

Uses: chip

Strength: high tuber number

Weakness: deep bud end, internals

Chip Notes: FC=1.0, CR=3.2, 37% Good chip

Cutting Notes:

Stampede Russet-Oblong-Long Russet. Parentage (BR70101-1 x Lemhi Russet), cross made in Texas, selected in Idaho, and tested extensively in Alberta, Canada. Released in 1101010 by Agriculture and Agri-Food Canada and the Texas Agricultural Experiment Station. Early maturity. Medium vine size. Lavender flower color.

Uses: fresh

Strength: good shape, nice shape, high tuber number, very nice skin, BOT, parent for fresh market, nice skin, nice shape parent

Weakness:

Cutting Notes:

Tacna Parentage ().

Uses: fresh

Strength: it looks much better than in the past, no heat sprouts or other major issues

Weakness: knobs

TX09403-15W-Round White. Parentage (NY138 x Ivory Crisp) Cross was made and selected in Texas.

Uses: chip

Strength: BOT, nice shape

Weakness: medium-large for a chipper

Chip Notes: FC=1.0, CR=2.4, 49% Good chip

Cutting Notes:

TX09403-21W-Round White. Parentage (NY138 x Ivory Crisp) Cross was made and selected in Texas.

Uses: chip

Strength: very round, parent for shape, parent for high yield, BOT

Weakness: large,

Chip Notes: FC=1.0, CR=2.3, 50% Good chip

Cutting Notes:

TX12484-2WZC-Round White. Parentage (TX08402 x NDTX059828-2W). Cross was made and selected in Texas.

Uses: chip

Strength:

Weakness: enlarged lenticels, pinkish

Chip Notes: FC=1.0, CR=3.7, 3% Good chip

Cutting Notes:

TX12484-3WZC-Oblong White. Parentage (TX08402 x NDTX059828-2W). Cross was made and selected in Texas.

Uses: chip

Strength: very nice, confirm ZC tolerance, consider releasing as germplasm, produce clean seed, send to Colorado

Weakness: enlarged lenticels

Chip Notes: FC=1.0, CR=2.1, 40% Good chip

Cutting Notes: long sprouts

TX13590-9Ru-Oblong Russet. Parentage (ND9687-3Ru x ND9852-1Ru). Cross was made and selected in Texas.

Uses: fresh

Strength: blocky+, high tuber number, nice, very nice size and shape parent, TX13590-9Ru has darker skin and larger tubers than TXA549-1Ru, check if we have regional data BOT

Weakness: hollow heart even in relatively small tubers +

Cutting Notes: hollow heart small

TX14646-1W-R/YPinto-Oval White Red/Yellow Pinto. Parentage (NDTX059759-3Pinto x BTX2332-1R). Cross was made and selected in Texas.

Uses: fresh

Strength: nice skin pattern healthy-looking Tissue culture as a parent only

Weakness: yellow pinkish tint flesh, ugly flesh: yellow and pink combined

Cutting Notes: consider entering in tissue culture as a parent and drop from trials

TX17713-2W-Compressed White. Parentage (BTX2332-1R x ATTX98465-1R/Y). Cross was made and selected in Texas.

Uses: chip

Strength: it was -2R, we changed it to -2W, CHIP - it has high gravity

Weakness:

TX17714-4R-Oval Red. Parentage (AOTX93483-1R x NDTX05977s-1W). Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness: teardrop shape

TX17733-1R Parentage (NDTX059761-1R/R x NDTX05977s-1W). Cross was made and selected in Texas.

Uses: fresh

Strength: red purplish skin unique skin color snow white flesh

Weakness: snow white flesh with a some diffuse pink tint,

TX17734-1Y/Y-Oblong Yellow. Parentage (NDTX05977s-1W x NDA081451CB-1CY). Cross was made and selected in Texas.

Uses: fresh

Strength: beautiful smooth skin+, very nice flesh, lemon yellow flesh, parents, nice shiny skin+

Weakness:

TX17734-2W/Y-Round White/Yellow. Parentage (NDTX05977s-1W x NDA081451CB-1CY). Cross was made and selected in Texas.

Uses: chip

Strength: very high tuber number

Weakness: not a chipper, possibly small yellow, mixed flesh (some white, some yellow), teardrops, DROP

Chip Notes: FC=2.6, CR=3.7, 3% Good chip

TX17742-19R/R-Oval Red/Red. Parentage (ATTX98500-3Pu/Y x NDTX059761-1R/R). Cross was made and selected in Texas.

Uses: fresh

Strength: intense red flesh high tuber number

Weakness: teardrops, white and red flesh, white and pink flesh,

TX17742-22P/P-Round Purple/Purple. Parentage (ATTX98500-3Pu/Y x NDTX059761-1R/R). Cross was made and selected in Texas.

Uses: fresh

Strength: nice, shiny, uniform size and shape

Weakness: dislike flesh, light purple and not uniform, light purple and white, the flesh is not good enough,

TX17742-23P/P-Oblong Purple/Purple. Parentage (ATTX98500-3Pu/Y x NDTX059761-1R/R). Cross was made and selected in Texas.

Uses: fresh

Strength: light purple and white flesh, nice, shiny

Weakness:

TX17750-1R/R-Oblong Red/Red. Parentage (AOTX93483-1R x NDTX059761-1R/R). Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness: ugly, very light flesh, drop++, ugly skin, dislike flesh

TX17750-8R/R-Long Red/Red. Parentage (AOTX93483-1R x NDTX059761-1R/R). Cross was made and selected in Texas.

Uses: fresh

Strength: very light pink flesh, parent, oblong to long, looks like a sweet potato, white and red flesh

Weakness:

TX17755-2P splash-Oblong Purple splash. Parentage (ATTX98500-3Pu/Y x NDTX05977s-1W). Cross was made and selected in Texas.

Uses: fresh

Strength: amethyst splashed, very nice, shiny, BOT, high tuber number, very unique pattern FOR ANGEL

Weakness: a little flat,

TX17759-5W-Round White. Parentage (ATX05202s-3W/Y x TX09396-1W). Cross was made and selected in Texas.

Uses: chip

Strength: nice

Weakness: low tuber number,

Chip Notes: FC=1.0, CR=2.7, 17% Good chip

TX17763-2Y/Y-Oblong Yellow. Parentage (ATTX00289-4W x NDTX05977s-1W). Cross was made and selected in Texas.

Uses: fresh

Strength: smooth, yellow skin, oblong, shallow eyes, shiny, yellow flesh, dark lemon yellow flesh, send to Jas (CA) change W/Y to Y/Y

Weakness:

TX17765-1R/Y- Compressed Red/Yellow. Parentage (ATX06264s-4R/Y x Gala). Cross was made and selected in Texas.

Uses: fresh

Strength: high tuber number, uniform size, and shape, pretty uniform size and shape, very round yellow flesh is very intense

Weakness: different red skin, soft red, MIXED yellow and white 50%,

TX17773-3R/Y- Oval Red/Yellow. Parentage (ATTX98500-2Pu/Y x NDTX05977s-1W). Cross was made and selected in Texas.

Uses: fresh

Strength: nice intense yellow flesh, smooth skin, nice flesh color, oval to oblong, shiny skin

Weakness: some tear shape, a little flat

TX17788F-4R/R-Long Red/Red. Parentage (AOR07783-1 x TX12474-1P/P). Cross was made and selected in Texas.

Uses: fresh

Strength: fingerling, light red flesh, nice

Weakness:

TX17797-11Y/Y-Round Yellow/Yellow. Parentage (NDA081451CB-1CY x TX09396-1W). Cross was made and selected in Texas.

Uses: fresh

Strength: very nice, round, high tuber number yellow market

Weakness:

TX17802-5R/R-Round Red. Parentage (COTX04193s-2R/Y x AOTX93483-1R). Cross was made and selected in Texas.

Uses: fresh

Strength: uniform size and shape, medium-small, nice shape and skin color

Weakness:

TX17805-10PYpinto/Y- Round Purple pinto/Yellow. Parentage (NDTX059759-3RY/Y x TX12474-1P/P). Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness: only parent, unique skin and flesh pattern, the flesh is yellow and red,

TX17805-12R/R-Round Red/Red. Parentage (NDTX059759-3RY/Y x TX12474-1P/P). Cross was made and selected in Texas.

Uses: fresh

Strength: unique skin color, dark red almost maroon, parent, red marble flesh, flesh looks like red marbled meat

Weakness:

TX17805-1RWpinto/R-Round Red pinto/Red. Parentage (NDTX059759-3RY/Y x TX12474-1P/P). Cross was made and selected in Texas.

Uses: fresh

Strength: yellow and red flesh, interesting flesh pattern, very dark red, fun flesh pattern, parent

Weakness: a little pointed, buff skin

TX17805-8R/R-Oval Red/Red. Parentage (NDTX059759-3RY/Y x TX12474-1P/P). Cross was made and selected in Texas.

Uses: fresh

Strength: very dark skin, almost maroon, pink flesh, nice marble red pattern, very high tuber number, uniform size and shape,

Weakness:

TX17808-2R/Y-Round Red/Yellow. Parentage (NDTX059759-3RY/Y x ATTX00289-5R/Y). Cross was made and selected in Texas.

Uses: fresh

Strength:

Weakness: flesh combined yellow and pink, flat, dislike flesh, drop+++

TX17815-1P/P-Round Purple/Purple. Parentage (ATTX98500-2Pu/Y x PORTX03-PG25-2R/R). Cross was made and selected in Texas.

Uses: fresh

Strength: very dark flesh

Weakness:

TX17815-4P/P-Long Purple/Purple. Parentage (ATTX98500-2Pu/Y x PORTX03-PG25-2R/R). Cross was made and selected in Texas.

Uses: fresh

Strength: very intense purple flesh

Weakness: soft stolon ends, use as a parent and then drop, a few rotten ends, not a very good fingerling, use as a parent before dropping,

TX17846-1W Parentage (CO07070-10W x NDTX091908AB-2W). Cross was made and selected in Texas.

Uses: chip

Strength: BOT+, very uniform size and shape, smooth skin, very nice, high tuber number, tissue culture, advance, few eyes, impressive, beautiful skin,

Weakness:

Chip Notes: FC=1.0, CR=2.0, 64% Good chip

TXA549-1Ru-Oval Russet. Parentage (ND9687-3Ru x ND9852-1Ru). Cross was made in Texas, selected in Aberdeen, and tested extensively in Alberta, Canada. Medium-late maturity. Medium-large vine size. Purple flower color with White tips.

Uses: fresh

Strength: BOT, large, blocky, parent

Weakness: short

Cutting Notes: very nice shape nice, blocky

Unica Parentage(387521.3 x Aphrodite)

Uses: fresh

Strength:

Weakness: many knobs, sprouting, very but the shape, pointed, misshapen, rose skin, very light red skin, lots of knobs, bad shape,

Vanguard Russet-Long Russet. Parentage (TXA549-1Ru x AOTX98137-1RU). Cross was made and selected in Texas.

Uses: fresh

Strength: BOT+, parent, very nice+, blocky high tuber number

Weakness:

Cutting Notes:

Winterset-Round White/Yellow. Parentage (NY115 x BC0894-2W). Cross was made and selected in Colorado. Medium maturity. Medium vine size. Purple flower color.

Uses: chip

Strength: very smooth skin, high tuber number

Weakness:

Chip Notes: FC=1.2, CR=2.2, 51% Good chip

Yukon Gold-Oblong White/Yellow. Parentage (W5279-4 x Norgleam). Cross was made and selected in Ontario, Canada. Released in 1980 by Agriculture Canada, The University of Guelph, and The Ontario Ministry of Agriculture and Food, Guelph, Ontario. Medium-early maturity. Medium-large vine size. Violet flower color.

Uses: fresh

Strength: very large, smooth skin, large, high yield medium size, nice

Weakness: lots of knobs

Cutting Notes: large tubers

Appendix B. Parentage of potato varieties or selections-2020.

Variety or Selection	Parentage
Ackersegen	Hindenburg x Allerfruheste
Actrice	DENISE x AGATA
Adora	Pimura x Alcmaria
Agria	Quarta x Semlo
Alegria	Divina x 3.169 010-86
All Blue	Unknown
Alpha	Paul Kruger x Preferent
Ambra	Duke of York x Reneta Lub B 43
Asterix	Cardinal x SVP VE 70-9
Atlantic	Wauseon x Lenape
Avalanche	DHS40-1034 9 x Maris Piper
Aziza	Smeenge 69-17 x Smeenge74-5
Baltic Cream	?
Banana	?
Beacon Chipper	??
Bettina	?
Binje	Munstersen x Fransen
Boulder	MS702-80 x NY88
Caesar	Monalisa x Rop B 1176
Carola	
Carrera	
Century	A6789-7 x A6680-5
Chieftain	la1027-18 x La1354
Chipeta	WNC612-13 x Wischip
Clearwater Russet	Bannock x A89152-4
Climax	Bintje x Record
Courage	
Dakota Jewel	ND2223-8R x ND649-4R



<b>Variety or Selection</b>	<b>Parentage</b>
<b>Dark Red Norland</b>	<b>Redkote x ND626</b>
<b>Day-9</b>	
<b>Delikat</b>	
<b>Desiree</b>	<b>Urgenta x Depesche</b>
<b>Diamante</b>	<b>TDV54-30-8 x SVP55-89</b>
<b>Dore</b>	<b>Duke of York x BiermaA7</b>
<b>Eerstelling</b>	<b>Early Primrose x King Kidney</b>
<b>Eigenheimer</b>	<b>Blaue Riesen x Fransen</b>
<b>Electra</b>	<b>C1992/42 x Picasso</b>
<b>Emma</b>	<b>Colleen x Estima</b>
<b>Estima</b>	
<b>Fabula</b>	
<b>Florissant</b>	<b>Premiere x VK 69-491</b>
<b>Fortress Russet</b>	<b>AWN86514-2 x A89384-10</b>
<b>Fortuna</b>	
<b>Foxton</b>	<b>Irene x Maris Piper</b>
<b>Gasora</b>	<b>?</b>
<b>German Butter Ball</b>	
<b>Golden Sunburst</b>	
<b>Granola</b>	<b>3333 60 x 267 04</b>
<b>Green Mountain</b>	<b>Dunmore x Excelsior</b>
<b>Hertha</b>	<b>Dijkhuis61-133 x Konst62-374</b>
<b>Innovator</b>	<b>Shepody x RZ 84-2580</b>
<b>Irish Crispin</b>	<b>Amigo x DH70-699 3a</b>
<b>Ivory Crisp</b>	<b>ND292-1 x A77268-4</b>
<b>Kalkaska</b>	<b>B1254-1 X S440</b>
<b>Keuka Gold</b>	<b>Steuben x Norwis</b>
<b>King Harry</b>	
<b>Krasaua</b>	<b>Visnovske Rohlic x B53</b>
<b>La Rouge</b>	<b>LaSoda x Progress</b>
<b>Lamoka</b>	<b>NY120 x NY115</b>
<b>Lanorma</b>	<b>Bydand x Caesar</b>

<b>Variety or Selection</b>	<b>Parentage</b>
<b>LaRatte</b>	<b>??</b>
<b>Latona</b>	<b>Jaerla x Nicola</b>
<b>Magic Molly</b>	<b>Open pollinated seed ball from Red Beauty</b>
<b>Maris Piper</b>	
<b>Mazama</b>	<b>ND1196-2R x Redsen</b>
<b>MegaChip</b>	<b>Wischip x FYF85</b>
<b>Merlin</b>	<b>Cara x 93/2</b>
<b>Modoc</b>	<b>ND1196-2R x ND2225-1R</b>
<b>Molli</b>	
<b>Mondial</b>	<b>Spunta x Ve 66-295</b>
<b>Morning Gold</b>	<b>Olinda x Y 68-4-103</b>
<b>Nectar</b>	<b>Famosa x Red Cara</b>
<b>NorDonna</b>	<b>ND206-1R x ND821-6R</b>
<b>Norgold-M</b>	<b>ND2475-8 x A119-1</b>
<b>NorValley</b>	<b>NorChip x ND860-2</b>
<b>Olympus</b>	<b>Atlantic x 12601 ab</b>
<b>Oscar</b>	<b>Desiree x VK 64 491</b>
<b>Ottar</b>	<b>Dore x DsxAS-737</b>
<b>Pacific Russet</b>	<b>NDA8694-3 x Century Russet</b>
<b>Penta</b>	<b>Bellona x Estima</b>
<b>Pimpernel</b>	
<b>Platina</b>	
<b>Premiere</b>	
<b>Primica Inta</b>	
<b>Prince Hairy</b>	<b>Hudson x PI 310925</b>
<b>Purple Majesty</b>	<b>ND2008-2 x All Blue</b>
<b>Purple Peruvian</b>	<b>ND1562-4R x NDTX9-1098-11R</b>
<b>Ranger Russet-</b>	<b>Butte x A6595-3</b>
<b>Red Gold</b>	<b>G68211 x G6521-4RY</b>
<b>Red LaSoda</b>	<b>Triumph x Katahdin</b>
<b>Reveille Russet-</b>	<b>A81473-2 x A8343-12</b>
<b>Rio Rojo</b>	<b>ND1562-4R x NDTX9-1098-11R</b>

Variety or Selection	Parentage
Rodeo	Mondial x Bimonda
Rosara	Secura x 2605 77
Rose Gold	Abnaki x G6521-4RY
Reveille Russet	A81473-2 x A8343-12
Russet Burbank	Mutant from Burbank
Russet Legend	Century Russet x WNC672-2
Russet Norkotah	ND9526-4Ru x ND9687-5Ru
Russet Norkotah 112	ND9526-4RU x ND9687-5Ru
Russet Norkotah 223	ND9526-4RU x ND9687-5Ru
Russet Norkotah 278	ND9526-4RU x ND9687-5Ru
Russet Norkotah 296	ND9526-4RU x ND9687-5Ru
Rutt	Laila x Alcmaria
Saginaw Gold	MS321-38 x Michibonne
Sangre	Viking x A6356-9
Sangre10	Viking x A6356-9
Sante	SVPY66-13-636 x AM66-42
Satina	Puntila x 99 73
Shepody	Bake King x F58050
Sierra Gold™	Krantz x Delta Gold
Sierra Rose	A90601-2RDY X MAZAMA
Smiley	?
Snowden	B5141-6 x Wischip
Soraya	?
Sprint	SIRCO x MIN 72-74
Stampede Russet	BR7091-1 x Lemhi Russet
Strobrawa	MPI55 957/54 x Mira
Super Red	
Taisiya-	??
Tebina	?
Ukama	Marijke x Sirtema
Urgenta	Furore x Katahdin
US Blue	?

Variety or Selection	Parentage
Valisa	
Viking	Redskin x Nordak
Vivaldi	TZ 77-148 x Monalisa
Vokal	Primura x Rheinhort
Waneta	??
Winema	Redsen x ND1196-2R
Wendy	??
Yellow Finn	
Yukon Gold	W5279-4 x NorGleam
Numbered Clones	
A071012-4BF	A85331-7 x A01054-4
A07769-4	PA01N32-1 x Premier Russet
A08112-7R	A99331-2RY x COA01406-1R
A10021-5TE	A03921-2 x Mountain Gem Rus
AC11494-6W	A05158-3C x 00-3115-11
AOR08540-1	A02782-2 x PA01N22-5
AOR10204-3	COA05110-3 x A05066-9
AOR12197-4	
AORTX09033-11W	CO96141-4W x Ivory Crisp
AORTX09037-1W/Y	Fasan x Ivory Crisp
AORTX09037-4W/Y	Fasan x Ivory Crisp
AORTX09037-5W/Y	Fasan x Ivory Crisp
AORTX11913-3Wre	A03576-5Y x NDA050237B-1R
AOTX05043-1Ru	A99032-2TE x Summit Russet
AOTX95265-2ARu	A89216-9 x A86102-6
ATTX05175s-1R/Y	A99331-2RY X COA99261-IRY
ATTX07042-3WY	Western russet EM x A02086-10 EM 500
ATTX07230-4Yre/Y	AO0286-3Y y x Modoc red 500
ATTX10007-1Ru	A02060-3TE x A05013-5TE
ATTX10265-4R/Y	A02267-2PY X US 147-96RIY
ATTX10333-1W/Y	AFA3976TPS-1 x NY139
ATTX10378-3Ru/Y	Granola x CO00412-5W/Y
ATTX11633-1RYPinto/Y	Pinto x ND8555-8R
ATTX98444s-16R/Y	A83360-9R X T48YF
ATX02263-1R/Y	Inca Gold x A92653-6R
ATX06264s-4R/Y	A99331-2RY x Durango Red
ATX08322-1Ru	A02516-102LB x PALB0302-1

Variety or Selection	Parentage
ATX11549-1P/Y	Huckleberry Gold x ND8555-8R
ATX11586-2R/Y	A05173-2RY x Mila
ATX11684F-2W/Y	Nicola x POR02PG26-5
ATX13018-2Ru	A06015-13TE x A06084-1TE
ATX13134-3W/Y	NDA081451CB-1CY x CO02321-4W
ATX13287-1Ru	A07774-2VR x CO99053-3Ru
ATX15008-1Ru	A09001-14TE x A09004-2TE
ATX15025-2Ru	A10089-7TE x A09004-2TE
ATX15097-1Ru	Castle Russet x A98345-1
ATX15099-1Ru	Castle Russet x A10007-3
B2869-29	B0564-8x B1316-5
CO10064-1W/Y	CO00412-5W/Y x CO04099-4W/Y
CO10073-7W	CO02321-4W x CO02024-9W
CO10076-4W	CO03243-3W x CO02024-9W
CO10085-1RU	CO03364-5RU x Silvertown Russet
CO10087-4RU	CO03367-1RU x Mercury Russet
CO10091-1RU	CO03371-4RUx CO98067-7RU
CO10098-5W/Y	CO04099-3W/Y x CO04099-4W/Y
CO11009-3RU	Fortress Russet x AC96052-1RU
CO11023-2W	AC03433-1W x NY138
CO11023-9W	AC03433-1W x NY138
CO11037-5W	BC0894-2W x W2133-1
CO11250-1W/Y	CO99045-1W/Y x POR02PG26-5
CO11266-1W/Y	CO03060-2W/Y x A99433-5Y
CO12152-1RU	Dakota Russet x CO06035-3RU
CO12235-3W	AC00206-2W x AC03433-1W
CO12293-1W	CO02024-9W x ND7519-1
CO12378-1RU	CO06035-3RU x AO02183-2
COTX04050s-1P/P	CO97215-2P/P x CO97306-2P/P
COTX04193s-2R/Y	ATC98515-1R/Y x ND3574-5R
COTX08063-2Ru	A93157-6LS x A99073-1
COTX08322-10Ru	Blazer Russet x AC96052-1RU
COTX08365F-3P/P	POR01PG16-1 x CO00405-1R
COTX09022-3RuRE/Y	A00286-3Y x CO99100-1RU
COTX10012-1Wrdspl/Y	A00286-3Y x ATC00293-1W/Y
COTX10080-2Ru	CO03364-5RU x CO98067-7RU
COTX10118-4Wpe/Y	07S019 x AC03534-2R/Y
COTX10138-15Wpe/Y	AC99329-7PW/Y x AC03534-2R/Y
COTX12235-2W	AC00206-2W x AC03433-1W
COTX13029-2Ru/Y	AC06358-2W/Y x CO07039-3RU/Y

Variety or Selection	Parentage
COTX13230-1W	AC06358-2W/Y x CO07044-3RU/Y
COTX13231-1W	AC98016-6W x Wischip
COTX13231-4W	AC98016-6W x Wischip
COTX15083-1R	CO01198-2R x NDA050237B-1R
COTX15111-1R	CO05228-4R x ND8555-8R
COTX15111-3R	CO05228-4R x ND8555-8R
COTX15123-1Ru	CO07205-4RU x A06021-1T
COTX15123-2Ru	CO07205-4RU x A06021-1T
COTX15123-3Ru	CO07205-4RU x A06021-1T
COTX15169-1Ru	CO09139-7RU x A06021-1T
COTX15169-2Ru	CO09139-7RU x A06021-1T
COTX15182-2Ru	CO09278-2RU x A06021-1T
COTX15271-1Ru	A03921-2 x Mercury Russet
COTX16005-1Ru	A03921-2 x Classic Russet
COTX16013-5W	AC00206-2W x AC03433-1W
COTX16054-1Ru	CO05068-1RU x A02062-1TE
COTX16078-2W	CO10032-8W x Wischip
COTX16078-4W	CO10032-8W x Wischip
COTX16078-9PWpinto/Y	CO10032-8W x Wischip
COTX16209-1Ru	CO09076-3RU x CO07049-1RU
COTX16212-2Y/Y	CO09128-3W/Y x CO09128-5W/Y
COTX16217-2Ru	CO09337-1RU x OR05039-4
Dal17001RuRub	??
Mackinaw	Saginaw Chipper x Lamoka
MSW474-1	MSN190-2 x MSP516-A
MSZ063-2	MSR148-4 x McBride
MSZ242-13	MSR169-8Y x MSU383-A
NDTX059759-3RY/Y	ATND 99331-2 Pinto x ND 7834-2P
NDTX071258B-1R	NY138 x ND 4659-5R
NDTX081451CBs-1Y/Y	Dakota Diamond x Gala
NDTX091886-3P/P	COND 04082-8RR x ND 7519-1
NDTX092237C-2P/W	ND 049326C-2P x ND 7834-2P
NDTX113030C-3W	Dakota Diamond x ND7192-1
NDTX12135-1W	ND8559-20 x M3
NDTX12203AB-1W	ND028598c-1 x M2
NDTX12248Y-1R	95043.11 x Dakota Ruby
NDTX1244-3W/Y	AND07358-1Y x ND7192-1
NDTX1246-5W/Y	AND07358-1Y x ND8304-2
NDTX13280CB-3W	ND081452CB-1 x ND7519-1
NDTX13315CB-1W	ND092181CB-16 x ND7519-1

Variety or Selection	Parentage
NDTX14156-1R/Y	ATND99331-2PintoY x ND028742b-12PEY
NDTX14156-2RWpinto/Y	ATND99331-2PintoY x ND028742b-12PEY
NDTX14156-3P	ATND99331-2PintoY x ND028742b-12PEY
NDTX14247CAB-1W	ND028799C-3 x ND102809AB-2
NDTX14247CAB-2W	ND028799C-3 x ND102809AB-2
NDTX14252B-2W	ND028888cB-1 x ND860-2
NDTX14263BC-3W	ND028984B-1 x ND113306C-2
NDTX1432Y-2Y/Y	93057.1 x ND7799c-1
NDTX14362AB-1W	ND102809AB-2 x ND028984B-1
NDTX1444-5W	Dakota Crisp x ND7799c-1
NDTX1482YB-1W	Eva x Missaukee
NDTX4784-7R	ND3574-5R x ND2050-1R
OR12133-10	A98345-10 x Silverton Russet
Paroli	??
Petoskey	Beacon Chipper x MSG227-2
POR12NCK50-1	PA99N82-4 x Western Russet
POR14PG22-3	POR10PG3-3 x 2xOR2012
PORTX03PG25-2R/R	PA97B35-1 x PA99P7-2
Stampede Russet	BR70101-1 x Lemhi Russet
Tacna	
TX09403-15W	NY138 x Ivory Crisp
TX09403-21W	NY138 x Ivory Crisp
TX12484-2WZC	TX08402 x NDTX059828-2W
TX12484-3WZC	TX08402 x NDTX059828-2W
TX13590-9Ru	ND9687-3Ru x ND9852-1Ru
TX14646-1W-R/Ypinto	NDTX059759-3Pinto x BTX2332-1R
TX17713-2W	BTX2332-1R x ATTX98465-1R/Y
TX17714-4R	AOTX93483-1R x NDTX05977s-1W
TX17733-1R	NDTX059761-1R/R x NDTX05977s-1W
TX17734-1Y/Y	NDTX05977s-1W x NDA081451CB-1CY
TX17734-2W/Y	NDTX05977s-1W x NDA081451CB-1CY
TX17742-19R/R	ATTX98500-3Pu/Y x NDTX059761-1R/R
TX17742-22P/P	ATTX98500-3Pu/Y x NDTX059761-1R/R
TX17742-23P/P	ATTX98500-3Pu/Y x NDTX059761-1R/R
TX17750-1R/R	AOTX93483-1R x NDTX059761-1R/R
TX17750-8R/R	AOTX93483-1R x NDTX059761-1R/R
TX17755-2Psplash	ATTX98500-3Pu/Y x NDTX05977s-1W
TX17759-5W	ATX05202s-3W/Y x TX09396-1W
TX17763-2Y/Y	ATTX00289-4W x NDTX05977s-1W
TX17765-1R/Y	ATX06264s-4R/Y x Gala

Variety or Selection	Parentage
TX17773-3R/Y	ATTX98500-2Pu/Y x NDTX05977s-1W
TX17788F-4R/R	AOR07783-1 x TX12474-1P/P
TX17797-11Y/Y	NDA081451CB-1CY x TX09396-1W
TX17802-5R	COTX04193s-2R/Y x AOTX93483-1R
TX17805-10PYpinto/Y	NDTX059759-3RY/Y x TX12474-1P/P
TX17805-12R/R	NDTX059759-3RY/Y x TX12474-1P/P
TX17805-1RWpinto/R	NDTX059759-3RY/Y x TX12474-1P/P
TX17805-8R/R	NDTX059759-3RY/Y x TX12474-1P/P
TX17808-2R/Y	NDTX059759-3RY/Y x ATTX00289-5R/Y
TX17815-1P/P	ATTX98500-2Pu/Y x PORTX03-PG25-2R/R
TX17815-4P/P	ATTX98500-2Pu/Y x PORTX03-PG25-2R/R
TX17846-1W	CO07070-10W x NDTX091908AB-2W
TXA549-1Ru	ND9687-3Ru x ND9852-1Ru
Unica	387521.3 x Aphrodite



## Appendix C. Disposition of Clones

Clone	Texas Trial Level	Class	Disposition for 2020 trials
AORTX09033-11W	TXCH20	Chip	Drop
AORTX09037-4W/Y	TXCH20	Chip	Drop
AORTX09037-5W/Y	TXCH20	Chip	Keep
ATTX10333-1W/Y	EGSS20	Chip	Keep NCPT
ATX13134-3W/Y	NCPT20	Chip	Keep NCPT
COTX12235-2W	TXCH20	Chip	Drop
COTX13230-1W	EGSS20	Chip	Drop
COTX13231-1W	NCPT20	Chip	Drop
COTX13231-4W	NCPT20	Chip	Drop
COTX16013-5W	TXCH20	Chip	Drop
COTX16054-1W	EGSS20	Chip	Keep NCPT
COTX16078-2W	EGSS20	Chip	Drop
COTX16078-4W	EGSS20	Chip	Drop
NDTX113030C-3W	TXCH20	Chip	Keep
NDTX12135-1W	TXCH20	Chip	Keep
NDTX12203AB-1W	TXCH20	Chip	Keep
NDTX1244-3W/Y	TXCH20	Chip	Keep
NDTX1246-5W/Y	TXCH20	Chip	Keep
NDTX13280CB-3W	TXCH20	Chip	Drop
NDTX13315CB-1W	EGSS20	Chip	Drop
NDTX14247CAB-1W	EGSS20	Chip	Keep NCPT
NDTX14247CAB-2W	EGSS20	Chip	Keep NCPT
NDTX14252B-2W	EGSS20	Chip	Drop
NDTX14263BC-3W	EGSS20	Chip	Keep NCPT
NDTX1432Y-2Y/Y	TXCH20	Chip	Drop
NDTX14362AB-1W	TXCH20	Chip	Keep
NDTX1444-5W	NCPT20	Chip	Drop
NDTX1482YB-1W	NCPT20	Chip	Keep NCPT
TX12484-2WZC	TXCH20	Chip	Keep
TX12484-3WZC	NCPT20	Chip	Keep NCPT
TX17734-2W/Y	EGSS20	Chip	Drop
TX17759-5W	EGSS20	Chip	Drop
TX17846-1W	EGSS20	Chip	Keep
Atlantic	WR20	Chip	Keep
TX09403-15W	WR20	Chip	Keep WR
AORTX09037-1W/Y	SW20	Chip	Keep move to WR Red Spec

Clone	Texas Trial Level	Class	Disposition for 2020 trials
ATTX07042-3W/Y	SW20	Chip	Keep move to WR Red Spec
TX09403-21W	SW20	Chip	Drop
ATTX10265-4R/Y	TXR/Y20	Rd/Spec	Keep
ATTX98444s-16R/Y	TXR/Y20	Rd/Spec	Keep
ATX05202s-3W/Y		Rd/Spec	Keep
TX12484-3WZC		Chip	Keep
Atlantic		Chip	Keep
A07781-10LB			Keep
MSDD853-02			Keep
MSDD812-02			Keep
Banana	TXFing20	Rd/Spec	Keep
COTX08365F-3P/P	TXFing20	Rd/Spec	Keep
COTX15182-2Ru	TXFing20	Rd/Spec	Keep
TX17734F-1Y/Y	TXFing20	Rd/Spec	Keep
TX17788F-4R/R	TXFing20	Rd/Spec	Keep
COTX15083-1R	TXRed20	Rd/Spec	Keep
COTX15111-1R	TXRed20	Rd/Spec	Keep
NDTX071258B-1R	TXRed20	Rd/Spec	Keep
NDTX12248Y-1R	TXRed20	Rd/Spec	Keep
NDTX14156-3P	TXRed20	Rd/Spec	
NDTX4784-7R	TXRed20	Rd/Spec	Keep
TX17713-2W	TXRed20	Rd/Spec	Drop
TX17733-1R	TXRed20	Rd/Spec	Drop
TX17742-23P\P	TXRed20	Rd/Spec	Keep
TX17802-5R	TXRed20	Rd/Spec	Keep
ATTX05175s-1R/Y	TXR/Y20	Rd/Spec	Keep
ATTX10265-4R/Y		Rd/Spec	Drop Replace with Mini
ATTX11633-1RYpinto/Y	TXR/Y20	Rd/Spec	Keep
ATTX98444s-16R/Y		Rd/Spec	Drop Replace with Mini
ATX02263-1R/Y	TXR/Y20	Rd/Spec	Drop
ATX11549-1P/Y	TXR/Y20	Rd/Spec	Keep
ATX11586-2R/Y	TXR/Y20	Rd/Spec	Keep
ATX11684F-2W/Y	TXR/Y20	Rd/Spec	Keep
NDTX059759-3R/Y Pinto	TXR/Y20	Rd/Spec	Keep
NDTX091886-3P/P	TXR/Y20	Rd/Spec	Keep move to Chip
NDTX092237C-2P/W	TXR/Y20	Rd/Spec	Keep
NDTX14156-1R/Y	TXR/Y20	Rd/Spec	Drop
Sierra Rose	TXR/Y20	Rd/Spec	Keep
TX14646-1RWpinto/Y	TXR/Y20	Rd/Spec	Drop

<b>Clone</b>	<b>Texas Trial Level</b>	<b>Class</b>	<b>Disposition for 2020 trials</b>
<b>TX17742-19R/R</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>TX17742-5YPpinto/YP</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Drop</b>
<b>TX17750-1R/R</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Drop</b>
<b>TX17750-8R/R</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>TX17755-2Psplash</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>TX17765-1R/Y</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Drop</b>
<b>TX17805-10PYpinto/Y</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Drop</b>
<b>TX17805-12R/R</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>TX17805-13R/R</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Drop</b>
<b>TX17805-1RWpinto/R</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>TX17805-8R/R</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>TX17808-2R/Y</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Drop</b>
<b>TX17815-1P/P</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Drop</b>
<b>Unica</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>COTX04050s-1P/P</b>	<b>TXSM20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>COTX15111-3R</b>	<b>TXSM20</b>	<b>Rd/Spec</b>	<b>Drop</b>
<b>COTX16212s-2Y/Y</b>	<b>TXSM20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>TX17714-4R</b>	<b>TXSM20</b>	<b>Rd/Spec</b>	<b>Drop</b>
<b>TX17742-22P/P</b>	<b>TXSM20</b>	<b>Rd/Spec</b>	<b>Drop</b>
<b>TX17773-3R/Y</b>	<b>TXSM20</b>	<b>Rd/Spec</b>	<b>Drop</b>
<b>TX17797s-11Y/Y</b>	<b>TXSM20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>TX17815-4P/P</b>	<b>TXSM20</b>	<b>Rd/Spec</b>	<b>Drop</b>
<b>AORTX11913-3Wre</b>	<b>TXW/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>ATTX07230-4Yre/Y</b>	<b>TXW/Y20</b>	<b>Rd/Spec</b>	<b>Drop</b>
<b>COTX10012-1Wrdspl/Y</b>	<b>TXW/Y20</b>	<b>Rd/Spec</b>	<b>Drop</b>
<b>COTX10118-4Wpe/Y</b>	<b>TXW/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>COTX10138-15Wpe/Y</b>	<b>TXW/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>NDTX081451CBs-1Y/Y</b>	<b>TXW/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>Tacna</b>	<b>TXW/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>TX17763-2Y/Y</b>	<b>TXW/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>COTX04193s-2R/Y</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>COTX16078-9PWpinto/Y</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>NDTX14156-2RWpinto/Y</b>	<b>TXR/Y20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>Red LaSoda</b>	<b>WR20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>ATX06264s-4R/Y</b>	<b>WR20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>Yukon Gold</b>	<b>WR20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>PORTX03PG25-2R/R</b>	<b>WR20</b>	<b>Rd/Spec</b>	<b>Keep</b>
<b>NDTX14156A-3RWpinto/Y</b>		<b>Rd/Spec</b>	<b>Keep</b>
<b>NDTX14156B-3RWpinto/Y</b>		<b>Rd/Spec</b>	<b>Keep</b>

<b>Clone</b>	<b>Texas Trial Level</b>	<b>Class</b>	<b>Disposition for 2020 trials</b>
NDTX14156C-3R/Y		Rd/Spec	Keep
TX17805-1RWpinto/R	TXR/Y20	Rd/Spec	Keep
Purple Majesty	TXR/Y20	Rd/Spec	Keep
AOTX05043-1Ru	TXRU20	Russet	Drop
ATTX10007-1Ru	TXRU20	Russet	Keep
ATTX10378-3Ru/Y	TXRU20	Russet	Drop
ATX08322-1Ru	TXRU20	Russet	Drop
ATX13018-2Ru	TXRU20	Russet	Drop
ATX13287-1Ru	TXRU20	Russet	Keep
ATX15008-1Ru	TXRU20	Russet	Drop
ATX15025-2Ru	TXRU20	Russet	Drop
ATX15097-1Ru	TXRU20	Russet	Keep
ATX15099-1Ru	TXRU20	Russet	Drop
COTX08322-10Ru	TXRU20	Russet	Keep
COTX09022-3RuRE/Y	TXRU20	Russet	Keep
COTX10080-2Ru	TXRU20	Russet	Drop
COTX13029-2Ru/Y	TXRU20	Russet	Keep
COTX15123-1Ru	TXRU20	Russet	Drop
COTX15123-2Ru	TXRU20	Russet	Drop
COTX15123-3Ru	TXRU20	Russet	Drop
COTX15169-1Ru	TXRU20	Russet	Drop
COTX15169-2Ru	TXRU20	Russet	Drop
COTX15271-1Ru	TXRU20	Russet	Keep
COTX16005-1Ru	TXRU20	Russet	Keep
COTX16209-1Ru	TXRU20	Russet	Drop
COTX16217-2Ru	TXRU20	Russet	Drop
Dal17001RuRua	TXRU20	Russet	Drop
Russet Norkotah 223	TXRU20	Russet	Drop
Russet Norkotah 278	TXRU20	Russet	Keep
Russet Norkotah 296	TXRU20	Russet	Keep
Sierra Gold	TXRU20	Russet	Keep
Stampede Russet	TXRU20	Russet	Keep
TX13590-9Ru	TXRU20	Russet	Keep
TXA549-1Ru	TXRU20	Russet	Keep
Russet Burbank	WR20	Russet	Keep
Russet Norkotah	WR20	Russet	Keep
COTX08063-2Ru	SW20	Russet	Keep
Vanguard Russet	ADVRU20	Russet	Keep
Reveille Russet	ADVRU20	Russet	Keep

<b>Clone</b>	<b>Texas Trial Level</b>	<b>Class</b>	<b>Disposition for 2020 trials</b>
<b>AOTX95265-2ARu</b>	<b>TXRU20</b>	<b>Russet</b>	<b>Drop</b>

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