2013 Annual Potato Field Day
Texas Potato Variety Development Program

Wednesday July 24, 2013

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

Cooperator: Springlake Potato Sales, Inc
Lower L – Dr. Miller’s grandsons Jackson and Ryan proudly displaying their 2013 harvest.  
Dr. Miller inspecting 2013 Springlake plots
2013 Field Day Handbook

Texas Potato Breeding and Variety Development Program

Creighton Miller, Jeff Koym, and Douglas Scheuring

Department of Horticultural Sciences

Texas A&M University

July 24, 2013

Hosted by Springlake Potato Sales, Inc.

Bruce Barrett
Steve Barrett
Tim Gonzalez
Funds Received to Support
Texas Potato Breeding and Variety Development Program
July 1, 2012- June 30, 2013

USDA/NIFA (Special Research Grants Program, Potato Research) $56,000
Zebra Chip SCRI Program $47,163
USPB Grant for National Chip Breeders Trial – Texas $10,000
Royalty returned to program $90,000

$203,163

Expected July 1, 2013 – June 30, 2014:
USDA/NIFA (Special Research Grants Program, Potato Research) $60,000
Zebra Chip SCRI Program $47,163
USPB Grant for National Chip Breeders Trial – Texas $10,000
Royalty (Estimated) $90,000

$207,163

In-kind support:
CSS Farms (Milt Carter, Grant Monie, Jerry Henderson, John Wallace and Randy Spevak) $35,000
Springlake Potato Sales (Bruce Barrett, Steve Barrett, Tim Gonzalez, and Cliff Black) $35,000

$70,000

The Texas Potato Breeding and Variety Development Program Team:

Creighton Miller – Project Leader
Jeff Koym – Senior Research Associate
Douglas Scheuring – Senior Research Associate
Julien Levy – Post Doctoral Research Associate
Tulle Alexander - Graduate Student
Elizabeth Vielma – Student Worker (tissue culture/virus eradication)
Mike Jensen – Technical Assistant II
Tess McIntyre, Brianna Bentley, and Craig Black – Student Workers
Jim Winder – Tractor Driver
### Texas Potato Breeding and Variety Development Program 2013 Trials

<table>
<thead>
<tr>
<th>Location</th>
<th>Trial</th>
<th>Planted</th>
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<tr>
<td>Springlake</td>
<td>Red White Flesh (9)</td>
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<tr>
<td></td>
<td>Texas Advanced Selection Red (7)</td>
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<td></td>
<td>Texas Advanced Selection Small Potatoes (15)</td>
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<td>Texas Advanced Selection Fingerling (5)</td>
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<td>Red/Purple Skin Red/Purple Flesh (3)</td>
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<td>Red Skin Yellow Flesh (10)</td>
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<td>Chip (14)</td>
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<td>Field Day Russets/Chip (86)</td>
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<td>Texas Advanced Chip Selection (12)</td>
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<td>Field Day Red/Specialty (51)</td>
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<td>Sara Kammlade Trial (25)</td>
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<td>White Skin Yellow Flesh (10)</td>
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<td>Russet (31)</td>
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<td></td>
<td>Texas Advanced Selection White Skin Yellow Flesh (5)</td>
<td>4/1/13</td>
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<td>Texas Advanced Selection Russets (17)</td>
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<td></td>
<td>French (10)</td>
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<td>SP-Fert (4)</td>
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<td>Commercial Fingerling (13)</td>
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<td><strong>Total Entries</strong></td>
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<td>Dalhart</td>
<td>Ron French Pesticide Trial (15)</td>
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<td>National Chip (198)</td>
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<td>11 Selections (434)</td>
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<td>Western Red (6)</td>
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<td>Texas Advanced Red Selections (19)</td>
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<td>Western Red Skin/Yellow Flesh (3)</td>
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<td>Western White Skin/Yellow Flesh (4)</td>
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<td>Texas Advanced Small Potato Selections (18)</td>
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<td>Texas Advanced Fingerling Selections (25)</td>
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<td>Texas Advanced Purple Skin/Purple Flesh Selections (6)</td>
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<td>Zebra Chip Increase (10)</td>
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<td>Western and Southwestern Chip (12)</td>
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<td>Commercial Variety (8)</td>
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<td>Texas Advanced Chip Selections (30)</td>
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<td>Western Russets (20)</td>
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<td>Texas Advanced Russet Selections (50)</td>
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<td><strong>Total Entries</strong></td>
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Seedlings for Selection in Texas - 2013

Seedlings planted at Springlake

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<tr>
<th>Source</th>
<th>Families</th>
<th>Total Planted</th>
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<tr>
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<td>183</td>
<td>18,048</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>183</strong></td>
<td><strong>18,048</strong></td>
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Seedlings planted at Dalhart

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<thead>
<tr>
<th>Source</th>
<th>Families</th>
<th>Total Planted</th>
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<tr>
<td>Colorado</td>
<td>64</td>
<td>20,380</td>
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<tr>
<td>Texas</td>
<td>68</td>
<td>11,489</td>
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<tr>
<td>Aberdeen</td>
<td>58</td>
<td>7,003</td>
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<tr>
<td>North Dakota</td>
<td>67</td>
<td>6,300</td>
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<tr>
<td>Oregon</td>
<td>23</td>
<td>2,192</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>280</strong></td>
<td><strong>47,364</strong></td>
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Grand Total – 65,412 seedlings from 463 families (crosses) were planted in 2013.
2013 Field Day Trial in Entry Order

Russet, White Skin Yellow Flesh, Chip Selections/Varieties

Russet Selections


Uses: dual
Strengths: dual purpose, medium to high specific gravity, good fry color from 45° storage, resistance to internal defects including hollow heart, brown center, net necrosis and sugar ends, high yield of large tubers, resistance to early dying
Weaknesses: susceptibility to scab, tendency for deep eyes, susceptibility to stress induced malformations, mediocre performance in Texas, feathering, sticky stolon, drop
Cutting Notes: long and skinny
Chip Notes: Chip Color Rating=3, % Zebra Chip: 28

**Russet Burbank (002)**-Long Russet. Luther Burbank reported the origin of Russet Burbank in 1914 as a chimeric selection from the variety Burbank by Lou Sweet. Lou Sweet was a potato grower in the western slope area of Colorado and was President of the Potato Association of America in 1920. Late maturity. Large vine size. White flower color.

Uses: dual
Strengths: Tolerant to scab, good long term storage
Weaknesses: susceptible to Fusarium and Verticillium wilts, PLRV, PVY and net necrosis, Jelly-end and sugar-end develop in tubers when plants are subjected to stress, stress results in knobs, pointed ends and dumbbells, many culls, Rhizoctonia++, rough, poor shape, skinny
Cutting Notes: long and rough
Chip Notes: Chip Color Rating=3, % Zebra Chip: 14

**Russet Norkotah (003)**-Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Released in 1987 by the North Dakota Agricultural Experiment Station. Early-medium maturity. Medium vine size. Corolla is white and anthers are yellow-orange.

Uses: fresh
Strengths: uniform tuber shape, excellent appearance, and resistance to hollow heart, shallow eyes, high percentage of #1 tubers, tolerance to common scab and silver scurf, nice flesh
Weaknesses: weak vine, susceptibility to early dying, most virus, especially PVY, and late blight, and very susceptible to Verticillium wilt, early blight and Rhizoctonia
Cutting Notes: nice shape, large tubers
Chip Notes: Chip Color Rating=3, % Zebra Chip: 0


Uses: Early harvest processing
Strengths: Good early yields, high percentage of large tubers, resistance to black spot bruise
Weaknesses: Specific gravity is variable and erratic; sugars accumulate during storage, fries dark from 45° storage, very susceptible to common scab, PVX, PVY, early and late blight, Verticillium wilt and pinkeye, enlarged lenticels, heat sprouts, and knobs
Cutting Notes: flat
**Stampede Russet (005)**-Oblong-Long Russet. Parentage (BR7091-1 x Lemhi Russet), cross made in Texas, selected in Idaho and tested extensively in Alberta, Canada. Released in 1999 by Agriculture and Agri-Food Canada and the Texas Agricultural Experiment Station. Early maturity. Medium vine size. Lavender flower color.

- Uses: fresh
- Strengths: nice flesh, smooth, high yield
- Weaknesses: small, light set, pointed
- Cutting Notes: large tubers
- Chip Notes: Chip Color Rating=2, % Zebra Chip: 2


- Uses: fresh
- Strengths: good yield, uniform tuber shape, excellent appearance, resistance to hollow heart, some increased resistance to early dying and environmental stresses, lower N requirement, more vigorous, and higher yielding than Russet Norkotah, heavy net, BOT
- Weaknesses: five to ten days later than Russet Norkotah. Can produce a higher percentage of misshapen tubers than Russet Norkotah (especially under heat stress, Rhizoctonia)
- Cutting Notes: nice

**A02062-1TE (007)**-Long Russet. Parentage (A97201-4 x A97299-1). Cross was made and selected in Aberdeen. Medium maturity. Medium vine size. White flower color.

- Uses: dual
- Strengths:
- Weaknesses:
- Cutting Notes: large, nice shape


- Uses: dual
- Strengths: nice flesh, BOT-
- Weaknesses: skinny, pointed, drop+
- Cutting Notes: blocky, small
- Chip Notes: Chip Color Rating=2, % Zebra Chip: 0

**A02424-83LB (009)**-Oblong White Parentage (AO96781-4 x A97229-1). Cross was made and selected in Aberdeen. Medium maturity. Large vine size. White flower color.

- Uses: dual
- Strengths:
- Weaknesses:
- Cutting Notes: flat, blocky


- Uses: dual
- Strengths:
- Weaknesses:
- Cutting Notes: very nice

- Uses: dual
- Strengths: heavy set
- Weaknesses: skinny, too long, drop, rough, drop for TX, skinny+
- Cutting Notes: blocky, deep eyes
- Chip Notes: Chip Color Rating= 2, % Zebra Chip: 0

**AC00395-2RU (012)**-Long Russet. Parentage (A95523-12 x A84118-3). Cross was made in Aberdeen, and selected in Colorado. Late maturity. Very large vine. Light purple flower color.

- Uses: dual
- Strengths: heavy set
- Weaknesses: blocky+, drop, pointed, small
- Cutting Notes: small, blocky
- Chip Notes: Chip Color Rating=2, Brown Center -, % Zebra Chip: 0

**AO01114-4(013)**-Oblong-long Russet. Parentage (AO92017-6 x A86102-6). Cross was made and selected in Aberdeen. Medium-late maturity. Medium-large vine size. White flower color.

- Uses: dual
- Strengths:
- Weaknesses:
- Cutting Notes: small, blocky

**AO02060-3(014)**-Oblong-long Russet. Parentage (A97201-4 x Premier Russet). Cross was made in Aberdeen, and selected in Oregon. Medium-late maturity. Small-medium vine size. White flower color.

- Uses: dual
- Strengths: BOT-, large, nice flesh, nice
- Weaknesses: yield-, cream colored flesh, some pointing
- Cutting Notes: nice shape
- Chip Notes: Chip Color Rating=1, Brown Center -, BOT, % Zebra Chip: 0

**AOTX96216-2Ru (015)**-Long Russet. Parentage (A89216-9 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Late maturity. Large vine size. White flower color

- Uses: fresh
- Strengths: size parent, large tubers, ATX84378-1Ru-like, keep
- Weaknesses: oversized, rough, pointed, very early
- Cutting Notes: growth cracks, ugly, drop
- Chip Notes: Chip Color Rating=2, Brown Center -, % Zebra Chip: 5

**AOTX98152-3Ru (016)**-Oblong Russet. Parentage (A88338-1 X A9201-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium early maturity. Medium vine size. Lavender flower color.

- Uses: fresh
- Strengths: blocky, advance, BOT+, yield+
- Weaknesses: heat necrosis
- Cutting Notes: blocky, nice shape
- Chip Notes: Chip Color Rating=2, Stem-end discoloration -, Mahogany Browning -, BOT, % Zebra Chip: 0
**ATX91137-1Ru (017)**-Oblong Russet. Parentage (A81473-2 x A8343-12) Cross was made in Aberdeen, and selected in Texas. Medium-early maturity. Medium vine size. Lavender flower color.

Uses: fresh
Strengths: yield+, advance, BOT+, keep, fast bulk, somewhat blocky, BOT
Weaknesses: larger tubers can have raised eyes, some pointed
Cutting Notes: nice shape
Chip Notes: Chip Color Rating=2, % Zebra Chip: 0

**CO03276-5RU (018)**-Long Russet. Parentage (CO95086-8RU x Blazer Russet). Cross was made and selected in Colorado. Medium early maturity. Medium large vine size. Purple flower color.

Uses: fresh
Strengths:
Weaknesses: pointed, culls+, skinny, drop+++ , 20% heat necrosis
Cutting Notes: small, blocky
Chip Notes: Chip Color Rating=3, % Zebra Chip: 7


Uses: dual
Strengths:
Weaknesses:
Cutting Notes: nice shape

**CO05040-1RU (020)**-Oblong Russet. Parentage (Sage Russet x A96095-3). Cross was made and selected in Colorado. Medium maturity. Large vine size. White flower color.

Uses: dual
Strengths:
Weaknesses:
Cutting Notes: blocky, full shape

**CO05068-1RU (021)**-Oblong Russet. Parentage (AWN86514-2 x CO98009-3RU). Cross was made and selected in Colorado. Medium maturity. Large-very large vine size. White flower color.

Uses: dual
Strengths:
Weaknesses:
Cutting Notes: nice shape

**CO05110-6RU (022)**-Oblong Russet. Parentage (COA96054-3 x CO98009-3RU). Cross was made and selected in Colorado. Very early-early maturity. Medium vine size. Red-Purple flower color.

Uses: dual
Strengths:
Weaknesses:
Cutting Notes: large, nice shape

**CO05132-2RU (023)**-Long Russet. Parentage (Blazer Russet x CO99100-1RU). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

Uses: dual
Strengths:
Weaknesses:
Cutting Notes: small
**CO05149-3RU (024)**-Long Russet. Parentage (AC96052-1RU x CO99100-1RU). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

Uses: dual
Strengths:
Weaknesses:
Cutting Notes: skinny


Uses: fresh.
Strengths:
Weaknesses:
Cutting Notes: blocky, nice shape

**CO05175-1RU (026)**-Long Russet. Parentage (CO94035-15RU x AC96052-1RU). Cross was made and selected in Colorado. Medium maturity. Large vine size. White flower color.

Uses: dual
Strengths:
Weaknesses:
Cutting Notes: small, nice shape

**CO05189-2RU (027)**-Oblong Russet. Parentage (CO97138-7RU x AC92009-4RU). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

Uses: fresh
Strengths:
Weaknesses:
Cutting Notes: small, flat

**CO05189-3RU (028)**-Oblong Russet. Parentage (CO97138-7RU x AC92009-4RU). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White flower color.

Uses: dual
Strengths:
Weaknesses:
Cutting Notes: small, blocky

**OR05039-4 (029)**-Long White. Parentage (AO95245-2 x PA00N29-3). Cross was made and selected in Oregon. Early maturity. Medium vine size. White flower color.

Uses: process
Strengths:
Weaknesses:
Cutting Notes: pointed

**POR06V12-3 (030)**-Oblong-Long Russet. Parentage (PA00V6-4 x PA01N22-1). Cross was made and selected in Oregon. Med-late maturity Med-large vine size White flower color.

Uses: dual
Strengths:
Weaknesses:
Cutting Notes: blocky, nice skin and shape
TXA549-1Ru (031)- Oval Russet. Parentage (ND9687-3Ru x ND9852-1Ru). Cross was made in Texas, selected in Aberdeen and tested extensively in Alberta, Canada. Medium-late maturity. Medium-large vine size. Purple flower color with White tips.

Uses: dual
Strengths: BOT for shape, nice flesh, blocky, smooth
Weaknesses: low yield
Cutting Notes: blocky
Chip Notes: Chip Color Rating=2, % Zebra Chip: 17

COTX08322-10Ru (032)- Oblong Russet. Parentage (Blazer Russet x AC96052-1RU) Cross was made in Colorado and selected in Texas.

Uses: fresh.
Strengths: keep
Weaknesses:
Cutting Notes:

COTX09052-2Ru (033)- Russet. Parentage (CO03202-1RU x CO98067-7RU) Cross was made in Colorado and selected in Texas.

Uses: fresh.
Strengths:
Weaknesses:
Cutting Notes:


Uses: fresh
Strengths: nice, keep
Weaknesses: lots of culls, pointed
Cutting Notes:
Chip Notes: Chip Color Rating=2, % Zebra Chip: 0

AOTX98202-1Ru (035)- Oblong Russet. Parentage (A9201-6 X A9014-2). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium maturity. Medium vine size. Lavender flower color.

Uses: fresh
Strengths: nice shape and flesh, BOT for type, keep
Weaknesses: light skin
Cutting Notes:
Chip Notes: Chip Color Rating=2, Stem-end discoloration -, % Zebra Chip: 0

ATTX07023-2Ru (036)- Russet. Parentage (A01754-4 EM x A0082-6 EM 500) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh
Strengths:
Weaknesses:
Cutting Notes:

ATTX07039-2Ru (037)- Long-Russet. Parentage (Stampede Russet EM x AO0385-2 EM 400) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh
Strengths:
Weaknesses:
Cutting Notes:
**ATTX07039-4Ru (038)**-Long Russet. Parentage (Stampede russet EM x AO0385-2 EM 400) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

- **Uses:** fresh
- **Strengths:**
- **Weaknesses:**
- **Cutting Notes:**


- **Uses:** fresh
- **Strengths:** blocky, keep, BOT
- **Weaknesses:** light set, a little rough
- **Cutting Notes:**
- **Chip Notes:** Chip Color Rating=2, Dark -, % Zebra Chip: 0

**COTX05095-2Ru/Y (040)**-Long Russet/Yellow. Parentage (CO99045-1W/Y x AO96164-1). Cross was made in Colorado and selected in Texas. Medium maturity. Medium vine size. White flower color.

- **Uses:** fresh
- **Strengths:** small, smooth, heavy set, keep, Sierra Gold like, nice yellow flesh, keep for flesh
- **Weaknesses:**
- **Cutting Notes:**
- **Chip Notes:** Chip Color Rating=3, % Zebra Chip: 18

**COTX08258-6Ru (041)**-Long Russet. Parentage (PA98V6-1 x Blazer Russet) Cross was made in Colorado and selected in Texas.

- **Uses:** fresh
- **Strengths:**
- **Weaknesses:**
- **Cutting Notes:**

**COTX09042-2Ru (042)**-Long Russet. Parentage (CO99053-3RU x CO03202-1RU) Cross was made in Colorado and selected in Texas.

- **Uses:** fresh
- **Strengths:**
- **Weaknesses:**
- **Cutting Notes:**

**COTX09075-4Ru (043)**-Long Russet. Parentage (CO03380-2RU x CO99100-1RU) Cross was made in Colorado and selected in Texas.

- **Uses:** fresh
- **Strengths:**
- **Weaknesses:**
- **Cutting Notes:**

**COTX09097-2Ru (044)**-Long Russet. Parentage (A95409-1 x CO99100-1RU) Cross was made in Colorado and selected in Texas.

- **Uses:** fresh
- **Strengths:**
- **Weaknesses:**
- **Cutting Notes:**
**COTX09101-1Ru (045)**-Long Russet. Parentage (A96104-2 x CO03202-1RU) Cross was made in Colorado and selected in Texas.

- Uses: fresh
- Strengths:
- Weaknesses:
- Cutting Notes:

**COTX09196-1Ru (046)**-Long Russet. Parentage (AO00057-2 x CO98067-7RU) Cross was made in Colorado and selected in Texas.

- Uses: fresh
- Strengths:
- Weaknesses:
- Cutting Notes:

**TX08350-12Ru (047)**-Long Russet. Parentage (TXA549-1Ru x AC96052-1RU). Cross was made and selected in Texas.

- Uses: fresh
- Strengths: high yield, keep
- Weaknesses: small, smooth, blocky, light set, internals??, drop
- Cutting Notes:
- Chip Notes: Chip Color Rating=1, BOT, % Zebra Chip: 0

**TX08352-5Ru (048)**-Long Russet. Parentage (TXA549-1Ru x AOTX98137-1RU). Cross was made and selected in Texas.

- Uses: fresh
- Strengths:
- Weaknesses: Cutting Notes:


- Uses: fresh
- Strengths: nice flesh BOT
- Weaknesses: low yield
- Cutting Notes:
- Chip Notes: Chip Color Rating=3, % Zebra Chip: 0

**White Skin Yellow Flesh**


- Uses: specialty
- Strengths: attractive yellow flesh tubers with red eyes, good yield, resistant to mild mosaic, moderately resistant to PLRV.
- Weaknesses: can exhibit some feathering, Susceptible to PVY and common scab, hollow heart and internal heat necrosis can be a problem, Plant establishment is irregular, particularly from basal end seed pieces.
- Cutting Notes: very nice
- Chip Notes: Chip Color Rating=3, 1% dark, Stem-end Discoloration +, Sugar End +, % Zebra Chip: 0

- **Uses:** specialty
- **Strengths:**
- **Weaknesses:**
- **Cutting Notes:** small, rough

**CO04099-3W/Y (052)**-Oval White/Yellow Parentage (VC1002-3W/Y x ATC98495-1W/Y). Cross was made and selected in Colorado. Early maturity. Medium large vine size. Red-purple flower color.

- **Uses:** specialty
- **Strengths:** high yield
- **Weaknesses:** drop, poor skin finish, poor internals, ZC?
- **Cutting Notes:**
- **Chip Notes:** Chip Color Rating=3, Mahogany Browning -, BOT-, % Zebra Chip: 0


- **Uses:** specialty.
- **Strengths:**
- **Weaknesses:**
- **Cutting Notes:** nice flesh

**COTX04015-3AW/Y (054)**-Oblong White/Yellow Parentage (ATC98515-1R/Y x ATC98444-1R/Y). Cross was made in Colorado and selected in Texas. Medium-late maturity. Large vine size. Lavender flower color

- **Uses:** specialty.
- **Strengths:** very nice flesh, advance?
- **Weaknesses:** heart shaped, pointed, drop++
- **Cutting Notes:** poor shape
- **Chip Notes:** Chip Color Rating=3, Stem-end Discoloration -, BOT-, % Zebra Chip: 0

**TXYG057 (055)**-Oblong-White. Parentage (W5279-4 x Norgleam). TXYG057 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold.

- **Uses:** specialty
- **Strengths:**
- **Weaknesses:**
- **Cutting Notes:** nice shape, light flesh

**TXYG079 (056)**-Oblong-White. Parentage (W5279-4 x Norgleam). TXYG079 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

- **Uses:** specialty
- **Strengths:**
- **Weaknesses:**
- **Cutting Notes:** nice shape, light flesh

**COTX07382-1W/Y (057)**-Oblong White/Yellow. Parentage (Blazer Russet x Innovator) Cross was made in Colorado and selected in Texas. Medium maturity. Medium vine size. White flower color.

- **Uses:** specialty
- **Strengths:** keep, few culls, nice shape, BOT-, Flesh Color=1.5
- **Weaknesses:** light flesh, low yield, uneven color
- **Cutting Notes:** smaller tubers
- **Chip Notes:** Chip Color Rating=3, Stem-end Discoloration +, Sugar Ends -, % Zebra Chip: 0

- Uses: specialty
- Strengths: Flesh Color=2.0
- Weaknesses: pointed, low yield+, light flesh+
- Cutting Notes: smooth
- Chip Notes: Chip Color Rating=3, Stem-end discoloration +, Sugar Ends -, % Zebra Chip: 0

**NDTX059759-3Pinto/Y (059)** - Oblong Pinto/Yellow. Parentage (ATND 99331-2 Pinto x ND 7834-2P). Cross was made in North Dakota and selected in Texas.

- Uses: specialty
- Strengths: purple streaks, Flesh Color=3.5
- Weaknesses: some shape problems, low yield
- Cutting Notes: pinto, some purple streaks

**TX08385-1Y/Y (060)** – Oblong Yellow/Yellow. Parentage (COTX03025-1P/P x 93-1285-6). Cross was made and selected in Texas.

- Uses: specialty
- Strengths:
- Weaknesses:
- Cutting Notes: very nice


- Uses: chip
- Strengths:
- Weaknesses: large tubers, light set, some too oblong
- Cutting Notes: small
- Chip Notes: Chip Color Rating=1, Stem-end Discoloration -, % Zebra Chip: 0

**Chip**

**Chipeta (062)** - Oblong White. Parentage (WNC612-13 x Wischip). Cross was made in Aberdeen and selected in Colorado. Released by USDA-ARS, Aberdeen, and Colorado Agricultural Experiment Station. Late maturity. Large vine size. Red-Reddish purple corollas and large yellow anthers.

- Uses: chip and French fries
  - Strengths: High yield potential, high specific gravity and low sugar accumulation in storage, will occasionally chip out of 40o storage, resistant to most internal and external defects including second growth, growth cracks, hollow heart, heat necrosis and blackspot bruises. Also resistant to leaf roll-induced net necrosis, Verticillium wilt, and both foliar and tuber phases of early blight, BOT.
  - Weaknesses: Irregular shape, may oversize, buff skin, variable tuber size, skin feathering, some russet patches, green heads, susceptible to Rhizoctonia, common scab, and Fusarium dry rot, late maturity, deep eyes
- Cutting Notes: hollow heart, scab
- Chip Notes: Chip Color Rating =1, Stem-end discoloration +, Sugar Ends -, % Zebra Chip: 0
**A00188-3C (063)**-Round Buff. Parentage (A91790-13W x Dakota Pearl). Cross was made and selected in Aberdeen. Medium-early maturity. Medium vine size.

- Uses: chip
- Strengths:
- Weaknesses: poor shape, lots of culls, rough
- Cutting Notes: large tubers, nice shape
- Chip Notes: Chip Color Rating=1, Stem-end Discoloration -, Mechanical Damage -, Sugar Ends -, % Zebra Chip: 0

**AC00206-2W (064)**-Round White. Parentage (AC87340-2 x Dakota Pearl). Cross was made in Aberdeen, and selected in Colorado. Medium maturity. Medium-large vine size. White flower color.

- Uses: chip
- Strengths: very nice+, size parent, BOT+
- Weaknesses: can over size
- Cutting Notes: nice shape
- Chip Notes: Chip Color Rating= 1, Stem-end Discoloration -, Tuber Moth -, Mechanical Damage -, BOT, % Zebra Chip: 0

**AC01151-5W (065)**-Oblong White. Parentage (COA96142-7 x NDA2031-2). Cross was made in Aberdeen and selected in Colorado. Medium maturity. Medium vine size. Purple flower color.

- Uses: chip
- Strengths: nice shape
- Weaknesses: poor internals, lots of B’s
- Cutting Notes: nice shape
- Chip Notes: Chip Color Rating=1, Stem-end Discoloration -, Sugar Ends -, Tuber Moth -, Scab -, Mechanical Damage -, % Zebra Chip: 0


- Uses: chip
- Strengths: high yield, high specific gravity, low sugar buildup in storage, chips well directly from field, short term storage at 50°, uniform tuber size and shape, tolerant to scab and Verticillium wilt, resistant to pink eye and highly resistant to race A of golden nematode, PVX and tuber net necrosis
- Weaknesses: very poor internals, very susceptible to internal heat necrosis, particularly in sandy soils in warm dry seasons, susceptible to hollow heart, shatter bruise, Rhizoctonia and storage rots, buff skin, and oversize
- Cutting Notes: nice large tubers
- Chip Notes: Chip Color Rating= 1, nice, hollow heart, Stem-end Discoloration -, Mechanical Bruise +, % Zebra Chip: 0


- Uses: chip
- Strengths: nice, heavy set+
- Weaknesses: tuber moth, deep nose, small
- Cutting Notes: nice shape
- Chip Notes: Chip Color Rating=1, BOT, Stem-end Discoloration -, Tuber Moth -, Mechanical Bruise -, % Zebra Chip: 0

- Uses: fresh
- Strengths:
- Weaknesses:
- Cutting Notes: pressure bruise
- Chip Notes: Chip Color Rating=3, Stem-end Discoloration +, % Zebra Chip: 3


- Uses: chip
- Strengths: nice shape
- Weaknesses: lots of B's, uniformly small
- Cutting Notes: nice shape
- Chip Notes: Chip Color Rating=1, Tuber Moth/Green Head -, Stem-end Discoloration -, % Zebra Chip: 0


- Uses: chip
- Strengths: too oblong, poor shape, flat, drop+
- Weaknesses: small
- Cutting Notes: small
- Chip Notes: Chip Color Rating=2, Stem-end Discoloration= 13, Drop, Shape- , % Zebra Chip: 0

**AC03433-1W (071)** - Round White. Parentage (A94322-8C x COA96141-4). Cross was made in Aberdeen and selected in Colorado.

- Uses: chip
- Strengths: nice flesh, nice shape
- Weaknesses: low yield+, light set
- Cutting Notes: some purple streaks, nice shape
- Chip Notes: Chip Color Rating=1, Mechanical Damage=1, Green Heads=2, Stem-end Discoloration=2, Tuber Moth=1, 1 Stem-end Discoloration=1, BOT, % Zebra Chip: 0


- Uses: chip
- Strengths: BOT+, nice shape, smooth, nice, parent
- Weaknesses:
- Cutting Notes: large tubers
- Chip Notes: Chip Color Rating=1, Stem-end Discoloration=4, Sugar Ends=1, % Zebra Chip: 0


- Uses: chip
- Strengths:
- Weaknesses:
- Cutting Notes: large tubers

**Waneta (074)** - Oblong White. Parentage (NY 120 x NY 115). Cross made and selected at Cornell University.

- Uses: chip
- Strengths:
- Weaknesses: poor shape
- Cutting Notes:
**Atlantic (075)**- 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.

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

Weaknesses: very poor internals, very susceptible to internal heat necrosis, particularly in sandy soils in warm, dry seasons, susceptible to hollow heart, shatter bruise, Rhizoctonia and storage rots, buff skin, and oversize

Cutting Notes: large tubers

Chip Notes: Chip Color Rating = 1, nice, hollow heart, Stem-end Discoloration -, Mechanical Bruise +, % Zebra Chip: 0

**COTX09022-5Ru/Y (076)**- Oblong Russet. Parentage (A00286-3Y x CO99100-1Ru) Cross was made in Colorado and selected in Texas.

Uses: chip

Strengths: 

Weaknesses: 

Cutting Notes: some red splash color

**NDTX060700C-1W (077)**- Round White. Parentage (NDTX 7560C-4 x NDTX 7192-1). Cross was made in North Dakota and selected in Texas. Early maturity. Small vine size. White flower color.

Uses: chip

Strengths: yield++

Weaknesses: very poor internals, drop, very low yield, small

Cutting Notes: small

Chip Notes: Chip Color Rating = 1, keep, send to Nat Chip?, Tuber Moth/Green Heads -, Stem-end Discoloration -, Mahogany Browning -, % Zebra Chip: 0

**NDTX071109C-1W (078)**- Round White. Parentage (ND 7226C-17 x ND 860-2) Cross was made in North Dakota and selected in Texas. Late maturity. Large vine size.

Uses: chip

Strengths: nice, keep, John Wallace, Nat. Chip, nice, to tissue culture, BOT, nice shape, color and flesh, yield+,

Weaknesses: low yield

Cutting Notes: deep eyes, rough

Chip Notes: Chip Color Rating = 1, keep, send to Nat. Chip, nice, BOT, Stem-end Discoloration -, BOT, % Zebra Chip: 0

**NDTX071217CB-1W (079)**- Round White. Parentage (ND 028801CB-1 x ND 039004B-2Y) Cross was made in North Dakota and selected in Texas. Medium maturity. Medium vine size.

Uses: chip

Strengths: BOT for yellow flesh, move to yellow if dose not chip

Weaknesses: 

Cutting Notes: nice yellow flesh

Chip Notes: Chip Color Rating = 2, keep, send to Nat. Chip, Yellow, Stem-end Discoloration -, shape?, nice, % Zebra Chip: 0
**NDTX081644CAB-2W (080)**-Round White. Parentage (ND 8331Cb-3 X ND 028804CAb-5) Cross was made in North Dakota and selected in Texas.

- **Uses:** chip
- **Strengths:** heavy set
- **Weaknesses:** very small, small potato?
- **Cutting Notes:** small
- **Chip Notes:** Chip Color Rating=1, keep, send to Nat Chip, Mechanical Damage -, Stem-end Discoloration -, Tuber Moth -, % Zebra Chip: 0

**NDTX081648CB-13W (081)**-Round White. Parentage (ND 8456-1 xND7377CB-1) Cross was made in North Dakota and selected in Texas.

- **Uses:** chip
- **Strengths:** nice, nice shape
- **Weaknesses:**
- **Cutting Notes:** smooth skin
- **Chip Notes:** Chip Color Rating=1, keep, send to Nat Chip, Stem-end Discoloration -, Green Heads -, % Zebra Chip: 0

**NDTX081648CB-1W (082)**-Round White. Parentage (ND 8456-1 xND7377CB-1) Cross was made in North Dakota and selected in Texas.

- **Uses:** chip
- **Strengths:** very nice shape
- **Weaknesses:** hollow heart
- **Cutting Notes:** buff
- **Chip Notes:** Chip Color Rating=1, keep send to Nat. Chip, Scab -, Stem-end Discoloration -, BOT, % Zebra Chip: 0

**NDTX081648CB-2W (083)**-Round White. Parentage (ND 8456-1 xND7377CB-1) Cross was made in North Dakota and selected in Texas.

- **Uses:** chip
- **Strengths:** smooth, uniform, heavy set
- **Weaknesses:** lots of B's, yield+
- **Cutting Notes:** small
- **Chip Notes:** Chip Color Rating=1, keep send to Nat. Chip, Stem-end Discoloration -, Mechanical damage -, % Zebra Chip: 0

**NDTX081648CB-4W (084)**-Round White. Parentage (ND 8456-1 xND7377CB-1) Cross was made in North Dakota and selected in Texas.

- **Uses:** chip
- **Strengths:** nice, to tissue culture, nice shape
- **Weaknesses:** some buff, hollow heart, poor internals
- **Cutting Notes:** nice shape
- **Chip Notes:** Chip Color Rating=2, keep send to Nat. Chip, Tuber Moth -, Stem-end Discoloration -, BOT, %Zebra Chip: 0

**NDTX091908AB-2W (085)**-Round White. Parentage (Ebt 6-21-5 X ND 7519-1) Cross was made in North Dakota and selected in Texas.

- **Uses:** chip
- **Strengths:** very smooth, very nice
- **Weaknesses:**
- **Cutting Notes:** nice shape
- **Chip Notes:** Chip Color Rating=1, keep send to Nat Chip, Mechanical Damage -, Stem-end Discoloration -, Tuber Moth -, % Zebra Chip: 0
**TX08352-2Ru (086)**-Oblong Russet. Parentage (TXA549-1Ru x AOTX98137-1RU). Cross was made and selected in Texas.

- **Uses:** chip
- **Strengths:**
- **Weaknesses:**
- **Cutting Notes:** blocky

Purple Fill (087)

Purple Fill (088)

Purple Fill (089)

Purple Fill (090)
Red White Flesh, Red Yellow Flesh, Specialty Selections/Varieties

Red Skin White Flesh

**Red LaSoda (001)**-Oblong Red. Parentage (Triumph x Katahdin). Cross was made and selected in Louisiana. Red LaSoda is a clonal selection from LaSoda made by Louisiana State University. Medium maturity. Medium-large vine size. Purple flower color.

- Uses: fresh
- Strengths: high yields, wide adaptability, nice white flesh
- Weaknesses: deep eyes, light color, occasional hollow heart, occasional growth cracks, susceptible to PVX, PVY, PVS, PVM, PLRV, early and late blights, scab, corky ring spot, bacterial wilt, and Rhizoctonia, tubers can over size and have poor skin set
- Cutting Notes: deep eyes
- Chip Notes: Chip Color Rating=3+, 10% Dark, % Zebra Chip: 7

**Chieftain (002)**-Round Red. Parentage (Ia1027-18 x Ia1354). Cross was made and selected at Iowa State University.

- Uses: fresh.
- Strengths: nice flesh
- Weaknesses: light skin, feathering, poor internals, light set
- Cutting Notes: very light red skin color
- Chip Notes: Chip Color Rating=2, Stem-end Discoloration +, Mahogany Browning -, % Zebra Chip: 3

**ATTX98453-6R (003)**-Round Red. Parentage (A93490-1R x A91846-5R). Cross was made in Aberdeen, tuberling produced in Texas and selected in Texas. Late maturity. Medium-large vine size. Lavender flower color.

- Uses: fresh.
- Strengths: nice, smooth, shallow eyes, yield+, BOT, release
- Weaknesses: feathering, light skin color
- Cutting Notes: nice skin
- Chip Notes: Chip Color Rating=2, Stem-end Discoloration +, % Zebra Chip: 0

**BTX2332-1R (004)**-Round Red. Parentage (B1523-4 x Super Red Norland). Cross was made in Beltsville, MD and selected in Texas. Medium maturity. Large vine size. Lavender flower color.

- Uses: fresh
- Strengths: heavy set, yield+
- Weaknesses: small, feathering, buff, poor skin finish, silver scurf, heat sprouts
- Cutting Notes: nice flesh, some purple streaks
- Chip Notes: Chip Color Rating=2, Stem-end Discoloration -, Sugar Ends -, % Zebra Chip: 0


- Uses: fresh
- Strengths:
- Weaknesses:
- Cutting Notes: small

**CO05228-4R (006)**-Oblong. Red. Parentage (CO99256-2R x CO00292-9R). Cross was made and selected in Colorado Early maturity. Medium vine size. Red-Purple flower color.

- Uses: fresh
- Strengths:
- Weaknesses:
- Cutting Notes: nice color and shape
COTX02172-1R (007)-Oblong Red. Parentage (CO94065-2R x ND3574-5R). Cross was made in Colorado and selected in Texas. Medium early maturity. Medium vine size. Lavender flower color.
   Uses: fresh
   Strengths: nice skin
   Weaknesses: light set, drop?
   Cutting Notes: purple streaks in the flesh
   Chip Notes: Chip Color Rating=3, Stem-end Discoloration -, Sugar Ends -, % Zebra Chip: 3

   Uses: fresh
   Strengths: keep, nice shape and flesh
   Weaknesses: light set, drop? small
   Cutting Notes: nice skin
   Chip Notes: Chip Color Rating=2, Stem-end Discoloration +, Sugar Ends +, Tuber Moth -, % Zebra Chip: 0

NDTX5438-11R (009)-Round Red. Parentage (ND4339-10R x ND4269-9R). Cross was made in North Dakota and selected in Texas. Late maturity. Medium vine size. Lavender flower color.
   Uses: fresh
   Strengths: dark skin, BOT for color
   Weaknesses:
   Cutting Notes: some large tubers, nice color

COTX07054-2R (010)-Oblong Red. Parentage (ATDC9801-3P x CO99076-6R) Cross was made in Colorado and selected in Texas.
   Uses: fresh
   Strengths: heavy set, keep
   Weaknesses: small, lots of B's
   Cutting Notes: small
   Chip Notes: Chip Color Rating=2, Stem-end Discoloration -, Sugar Ends -, % Zebra Chip: 0

NDTX050070-1R (011)-Round Red. Parentage (ND 8375b-6R x ND 8347CB-12R). Cross was made in North Dakota and selected in Texas.
   Uses: fresh
   Strengths: nice skin, smooth
   Weaknesses: feathering, small++, lots of B's
   Cutting Notes: smooth
   Chip Notes: Chip Color Rating=3, Sugar Ends -, % Zebra Chip: 25

NDTX081572B-1R (012)-Round Red. Parentage (ND 4659-5R x ND 028940B-102R) Cross was made in North Dakota and selected in Texas.
   Uses: fresh
   Strengths: no bruising, small, nice flesh, keep
   Weaknesses: low yield
   Cutting Notes: small, internal brownspot

NDTX092231C-1R (013)-Round Red. Parentage (ND 049326C-2P x AND 00272-1R) Cross was made in North Dakota and selected in Texas.
   Uses: fresh
   Strengths: 
   Weaknesses: 
   Cutting Notes: nice skin
**TX08375-1R (014)**-Oblong Red. Parentage (CO97222-1R/R x POR02PG26-5). Cross was made and selected in Texas.

*Uses:* fresh
*Strengths:*
*Weaknesses:*
*Cutting Notes: nice skin

**Red/Purple Yellow Flesh**


*Uses: specialty
*Strengths:*
*Weaknesses:*
*Cutting Notes: light yellow flesh, nice dark skin

**ATTX01180-1R/Y (016)**-Oblong Red/Yellow Parentage (ND5084-3R x A92657-1R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Medium maturity. Small vine size. Lavender flower color.

*Uses: specialty
*Strengths: BOT, nice flesh, nice skin very dark flesh, nice internals, did not fade
*Weaknesses: pointed, feathering
*Cutting Notes: purple streaks, poor shape
*Chip Notes: Chip Color Rating=3, Stem-end Discoloration -, % Zebra Chip: 0


*Uses: specialty
*Strengths: yield +
*Weaknesses: Faded, poor skin finish, some rough
*Cutting Notes: nice skin, light yellow flesh
*Chip Notes: Chip Color Rating=3, Stem-end Discoloration -, Sugar Ends -, % Zebra Chip: 0

**ATTX961014-1R/Y (018 (Sierra Rose))**-Oblong Red/Yellow. Parentage (A90601-2RDY X Mazama). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Early maturity. Medium vine size. Purple flower color.

*Uses: specialty
*Strengths:*
*Weaknesses: light red skin and light yellow flesh
*Cutting Notes: nice skin, light flesh
*Chip Notes: Chip Color Rating=3, Hollow Heart -, % Zebra Chip: 0%

**ATTX98510-1R/Y (019)**-Oblong Red/Yellow. Parentage (T48YF X A93456-6R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Late maturity. Large vine size. Lavender flower color

*Uses: specialty
*Strengths: nice skin color
*Weaknesses: small, drop, light skin and flesh
*Cutting Notes: nice skin, shape and flesh
*Chip Notes: Chip Color Rating=3, Stem-end Discoloration +, % Zebra Chip: 0
**BTX2103-1R/Y (020)**-Oblong Red/Yellow. Parentage (BO811-13 x ARS-W82-21285-1). Cross was made in Beltsville, Maryland and selected in Texas. Late maturity. Medium vine size. Red-purple flower color
Uses: specialty
Strengths: yield+, heavy set, buff skin, nice flesh, light skin, nice shape
Weaknesses: deep nose
Cutting Notes: nice skin and flesh, some anthocyanin streaking
Chip Notes: Chip Color Rating=3, Stem-end Discoloration -, Sugar End -, % Zebra Chip: 0

**CO04067-8R/Y (021)**-Oval Red. Parentage (CO97232-1R/Y x ATC98444-1R/Y). Cross was made and selected in Colorado. Medium-early maturity. Large vine size. Red-purple flower color.
Uses: specialty
Strengths:
Weaknesses: small+
Cutting Notes: nice skin
Chip Notes: Chip Color Rating=3, Stem-end Discoloration -, Sugar Ends -, Mahogany Browning -, % Zebra Chip: 2%

**CO04159-1R (022)**-Round Red. Parentage (AC97521-1R/Y x CO99076-6R). Cross was made and selected in Colorado. Medium-early maturity. Medium vine size. Purple flower color.
Uses: specialty
Strengths: nice skin finish, good color++,
Weaknesses: small++, hollow heart, drop
Cutting Notes:
Chip Notes: Chip Color Rating=3+, Stem-end Discoloration +, % Zebra Chip: 3

Uses: specialty
Strengths:
Weaknesses:
Cutting Notes: oblong to long, nice flesh

**COTX01403-4R/Y (024)**-Oblong Red/Yellow Parentage (VC1015-7R/Y x Winema). Cross was made in Colorado and selected in Texas.
Uses: specialty
Strengths: BOT, nice size, shape and flesh
Weaknesses: light skin, eye brows
Cutting Notes: nice skin, light flesh
Chip Notes: Chip Color Rating=3, Stem-end Discoloration -, Mahogany Browning +, Brown Center - %, Zebra Chip: 0

**Small /Fingerling**

**Purple Majesty (025)**-Oblong Purple/Purple. Parentage (ND2008-2 x All Blue). Cross made and selected in Colorado. Late maturity. Large vine size. Blue flower color
Uses: specialty
Strengths: nice shape, yield
Weaknesses: small, All Blue-type flesh, road map, poor skin finish, alligator hide, poor skin finish
Cutting Notes: nice shape, very dark flesh
- Uses: specialty
- Strengths:
- Weaknesses:
- Cutting Notes: nice round shape, very dark flesh

**COTX05082-2P/P (027)**-Oblong Purple/Purple. Parentage (CO97227-2P/P x WMSG147-3). Cross was made in Colorado and selected in Texas. Medium maturity. Small vine size.
- Uses: specialty
- Strengths: keep for flesh
- Weaknesses: deep eyes, small, light set, yield-, rough, poor skin finish
- Cutting Notes: rough, very dark flesh

**ATTX05175-1R/Y (028)**-Round Red/Yellow. Parentage (A99331-2RY X COA99261-IRY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.
- Uses: specialty
- Strengths: nice shape, light color, heavy set, BOT, lighter skin color, sort by skin color, nice color, keep, resend to CA
- Weaknesses:
- Cutting Notes: dark flesh, light skin

**ATTX05186-3W/Y (029)**-Oblong White/Yellow. Parentage (A99433-5Y x VC1075-1R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.
- Uses: specialty
- Strengths: keep, send to CA, nice shape, yield +, uniform size profile
- Weaknesses: some buff, road map
- Cutting Notes: nice

**ATTX06246-1R (030)**-Round Red. Parentage (Gogu Valley x Modoc) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.
- Uses: specialty
- Strengths: heavy set, lots of B's, BOT, to tissue culture, heavy set, small potato candidate
- Weaknesses: small, silver scurf, buff
- Cutting Notes: nice skin and shape

**ATTX98441-16R/Y (031)**-Oblong Red/Yellow. Parentage (A83360-9R X T48YF). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.
- Uses: specialty
- Strengths: (Looked good in CA trial), resend to CA
- Weaknesses: poor shape, pointed, drop++
- Cutting Notes: nice flesh

**ATTX05186-2R (032)**-Oblong Red. Parentage (A99433-5Y x VC1075-1R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.
- Uses: specialty
- Strengths:
- Weaknesses: poor shape, deep eyes, drop? Drop in CA
- Cutting Notes: nice skin
**ATX05202-3W/Y (033)** - Oblong White/Yellow. Parentage (A00286-3Y x A99433-5Y). Cross was made in Aberdeen and selected in Texas.
- Uses: specialty
- Strengths: uniform size, buff skin, uniform shape, light buff skin, nice flesh, resend to CA
- Weaknesses: lighter set, larger tubers, not uniform flesh color
- Cutting Notes: nice flesh

**ATX06264-4R/Y (034)** - Round Red/Yellow. Parentage (A99331-2RY x Durango Red). Cross was made in Aberdeen and selected in Texas.
- Uses: specialty
- Strengths: keep resend to CA, not bad shape and color, dual, small potato, uniform size, heavy set
- Weaknesses: some misshapen, poor skin finish
- Cutting Notes: nice skin and flesh

**ATX07305-1W/Y (035)** - Yellow/Yellow. Parentage (A99433-5Y x Mila) Cross was made in Aberdeen and selected in Texas.
- Uses: specialty
- Strengths: resend to CA, better skin finis, heavy set
- Weaknesses: poor shape, shape?? uneven flesh, drop++,
- Cutting Notes: smooth

**COTX04050-1P/P (036)** - Oblong Purple/Purple. Parentage (CO97215-2P/P x CO97306-2P/P). Cross was made in Colorado and selected in Texas.
- Uses: specialty
- Strengths: nice shape, resend to CA
- Weaknesses: lenticels, feathering
- Cutting Notes: nice skin and flesh

**COTX04193-2R/Y (037)** - Oblong Red/Yellow. Parentage (ATC98515-1R/Y x ND3574-5R). Cross was made in Colorado and selected in Texas. Medium-early maturity. Small vine size.
- Uses: specialty
- Strengths: nice flesh, small, to tissue culture, BOT, Flesh Color =4.5 (dark yellow)
- Weaknesses: 
- Cutting Notes: Chip Color Rating=3, Stem-end Discoloration ++, % Zebra Chip: 0

**NDTX050184-1R/Y (038)** - Round Red/Yellow. Parentage (ND 028577-6RY x ND 8555-8R). Cross was made in North Dakota and selected in Texas. Late maturity. Large vine size. Lavender flower color.
- Uses: specialty
- Strengths: very nice shape and color, small potato, BOT, good color, light flesh keep, small potato, heavy set+++,
- Flesh Color =2.3 (medium yellow)
- Weaknesses: 
- Cutting Notes: Chip Color Rating=3, Stem-end Discoloration +, Tuber Moth -, % Zebra Chip: 0

**NDTX059886-1W/Y (039)** - Oblong Yellow/Yellow. Parentage (ND 7192-1 x ND 8178-1Y). Cross was made in North Dakota and selected in Texas.
- Uses: specialty
- Strengths: smooth, heavy set, resend to CA
- Weaknesses: poor skin finish, larger tubers,
- Cutting Notes: nice skin and flesh
**NDTX071258B-1R (040)** Round Red. Parentage (ND 039035B-9R x ND 4659-5R) Cross was made in North Dakota and selected in Texas.
- **Uses**: specialty
- **Strengths**: nice flesh, heavy set, nice shape, nice size, nice skin
- **Weaknesses**: resend to CA
- **Cutting Notes**: nice shape and skin

**NDTX081451CB-1W/Y (041)** Oblong Yellow/Yellow. Parentage (Dakota Diamond x Gala) Cross was made in North Dakota and selected in Texas. Late maturity. Large vine size. White flower color.
- **Uses**: specialty
- **Strengths**: smooth, heavy set, parent, small potato, to tissue culture, BOT
- **Flesh Color**: Flesh Color=2.5
- **Weaknesses**: drop for hollow heart on one rep
- **Cutting Notes**: nice shape and skin

**Banana (042)** - Banana-Long White. Parentage (Grown in British Columbia for over 90 years. Research indicates that the variety might have been introduced to early settlers and natives by Russian fur traders. The exact origin, parental lines or breeding techniques used in its development are not known.)
- **Uses**: specialty
- **Strengths**:
- **Weaknesses**: skinny, dumb bell, rough, heat sprouts, small, rough
- **Cutting Notes**: rough

**Purple Peruvian (043)** - Long Purple/Purple. Parentage (??).
- **Uses**: specialty
- **Strengths**: Purple flesh, darker flesh than All Blue, no heat sprouts, smooth earthy flavor, some tolerance to frost, scab, late blight.
- **Weaknesses**: rough, deep eyes
- **Cutting Notes**: All Blue-like flesh

**COTX08365-1P/P (044)** Long Purple/Purple. Parentage (POR01PG16-1 x CO00405-1R) Cross was made in Colorado and selected in Texas.
- **Uses**: specialty
- **Strengths**: nice color, better yield, BOT
- **Weaknesses**: poor yield, small
- **Cutting Notes**: nice shape and skin

**COTX08365-3P/P (045)** Long Purple. Parentage (POR01PG16-1 x CO00405-1R) Cross was made in Colorado and selected in Texas.
- **Uses**: specialty
- **Strengths**: nice profile, All Blue-type flesh, BOT, send to CA
- **Weaknesses**:
- **Cutting Notes**: nice skin and flesh

**TX08378-3R/R (046)** Long Red. Parentage (POR01PG20-12 x POR02PG26-5) Cross was made and selected in Texas.
- **Uses**: specialty
- **Strengths**: drop?, red streaks in flesh, growth cracks
- **Weaknesses**: oversized
- **Cutting Notes**: poor shape
**F07049 (047)**- Canadian entry. See small potato trial
- Uses: fresh
- Strengths:
- Weaknesses:
- Cutting Notes:

**F07027 (048)**- Canadian entry. See white skin yellow flesh trial
- Uses: fresh
- Strengths:
- Weaknesses:
- Cutting Notes:

**F07060 (049)**- Canadian entry. See white skin yellow flesh trial
- Uses: fresh
- Strengths:
- Weaknesses:
- Cutting Notes:

**Rochdale Gold (050)**- Canadian entry. See white skin yellow flesh trial
- Uses: fresh
- Strengths:
- Weaknesses:
- Cutting Notes:

**STP00-10 (051)**- Canadian entry. See russet trial.
- Uses: fresh
- Strengths:
- Weaknesses:
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 = 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
MB = cross made in Minnesota and selected in Maine (Beltsville, Maryland program)
MN = cross made and selected in Minnesota
MS “letter” = cross made and selected in Michigan with ‘letter’ indicating year of selection with 1988(A)
as year 1 of the program
MWTX = cross made by USDA/ARS Madison, Wisconsin and selected in Texas
ND = cross made and selected in North Dakota
NDA= cross made in North Dakota and selected in Idaho (Aberdeen)
NDC = cross made in North Dakota and selected in Colorado
NDO = cross made in North Dakota and selected in Oregon
NDTX = cross made in North Dakota and selected in Texas
NY = cross made and selected in New York
OR = cross made and selected in Oregon
PA = cross made and selected in Prosser, Washington
POR = cross made in Prosser, Washington and selected in Oregon
TX = cross made and selected in Texas
TXA = cross made in Texas and selected in Idaho (Aberdeen)
TXAV = cross made in Texas, selected in Idaho (Aberdeen) and reselected in Alberta, Canada
TXND = cross made in Texas and selected in North Dakota
TXNS "numbers" = Texas selections (strains) out of Russet Norkotah made by Texas program
TXYG “numbers” = Texas selections (strains) out of Yukon Gold made by Texas program
VC = cross made in Lethbridge, Alberta and selected in Colorado
Variety strain "numbers" = selections (strains) out of various varieties made by Gene Shaver in Nebraska
Variety strain "letters" = selections (strains) out of various varieties made by Warren Trank in Nebraska