2012 Annual Potato Field Day
Texas Potato Variety Development Program

Thursday July 19, 2012

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

Cooperator: Springlake Potato Sales, Inc
2012 Field Day Handbook

Texas Potato Variety Development Program

Creighton Miller, Jeff Koym, and Douglas Scheuring

Department of Horticultural Sciences

Texas A&M University

July 19, 2012

Hosted by Springlake Potato Sales, Inc.
Bruce Barrett
Steve Barrett
Tim Gonzalez
Funds Received to Support
The Texas Potato Variety Development Program
July 1, 2011- June 30, 2012

USDA/NIFA (Special Research Grants Program, Potato Research) $60,000
Zebra Chip (SCRI) $47,163
Zebra Chip Grant from Director’s Office $15,000
USPB Grant for National Chip Breeders Trial – Texas $10,000
Royalty returned to program $64,020

$196,183

Expected July 1, 2012 – June 30, 2013:
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Royalty (Estimated) $60,000

$192,163

In-kind support:
CSS Farms (Milt Carter, Grant Monie, Jerry Henderson, John Wallace and Randy Spevak) $34,500
Springlake Potato Sales (Bruce Barrett, Steve Barrett, Tim Gonzalez, and Cliff Black) $26,500

$61,000

The Texas Potato Variety Development Program Team:
Creighton Miller – Project Leader
Jeff Koym – Research Associate
Douglas Scheuring – Senior Research Associate
Sarah Turner and Tulle Alexander - Graduate Students
Angel Chappell – Student Worker (Tissue Culture/virus eradication)
Mike Jensen – Technical Assistant II
Elizabeth Vielma, Tess McIntyre, and Brianna Bentley – Student Workers
Jim Winder – Tractor Driver
<table>
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<th>sdlgs</th>
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Texas Potato Variety Development Program 2012 Trials

<table>
<thead>
<tr>
<th>Location</th>
<th>Trial</th>
<th>Planted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Springlake</td>
<td>Field Day Red/Specialty (70)</td>
<td>3/24/12</td>
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<tr>
<td></td>
<td>Texas Advanced Small Potato Selections (15)</td>
<td>3/24/12</td>
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<tr>
<td></td>
<td>Texas Advanced Fingerling Selections (21)</td>
<td>3/24/12</td>
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<tr>
<td></td>
<td>Field Day Russets/Chip (65)</td>
<td>3/24/12</td>
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<tr>
<td></td>
<td>Ron French Pesticide Trial (15)</td>
<td>3/29/12</td>
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<tr>
<td></td>
<td>Red Skin/White Flesh (15)</td>
<td>3/27/12</td>
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<td></td>
<td>Texas Advanced Red Selections (8)</td>
<td>3/27/12</td>
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<tr>
<td></td>
<td>Southwest Fingerling (3)</td>
<td>3/29/12</td>
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<tr>
<td></td>
<td>Texas Advanced Red/Purple Skin, Red/Purple Flesh (5)</td>
<td>3/29/12</td>
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<tr>
<td></td>
<td>Red Skin/Yellow Flesh (12)</td>
<td>3/27/12</td>
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<tr>
<td></td>
<td>Texas Advanced Red Skin/Yellow Flesh Selections (3)</td>
<td>3/27/12</td>
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<tr>
<td></td>
<td>White Skin/Yellow Flesh (12)</td>
<td>3/29/12</td>
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<tr>
<td></td>
<td>Chip (12)</td>
<td>3/29/12</td>
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<tr>
<td></td>
<td>Texas Advanced Chip Selections (9)</td>
<td>3/29/12</td>
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<tr>
<td></td>
<td>Texas Advanced White Skin/Yellow Flesh Selections (8)</td>
<td>3/29/12</td>
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<tr>
<td></td>
<td>Russet (27)</td>
<td>3/31/12</td>
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<tr>
<td></td>
<td>Texas Advanced Russet Selections (17)</td>
<td>3/31/12</td>
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<tr>
<td></td>
<td>Commercial Fingerlings (18)</td>
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<td></td>
<td><strong>Total Entries</strong></td>
<td>335</td>
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| Dalhart      | Ron French Pesticide Trial (15)                | 5/9/12  |
|              | National Chip (198)                            | 5/7/12  |
|              | 11 Selections (434)                            | 5/7/12  |
|              | Western Red (6)                                | 5/8/12  |
|              | Texas Advanced Red Selections (19)             | 5/8/12  |
|              | Western Red Skin/Yellow Flesh (3)              | 5/8/12  |
|              | Texas Advanced Red Skin/Yellow Flesh Selections (9) | 5/8/12 |
|              | Western White Skin/Yellow Flesh (4)            | 5/8/12  |
|              | Texas Advanced White Skin/Yellow Flesh Selections (13) | 5/8/12 |
|              | Texas Advanced Small Potato Selections (18)    | 5/8/12  |
|              | Texas Advanced Fingerling Selections (25)      | 5/8/12  |
|              | Texas Advanced Purple Skin/Purple Flesh Selections (6) | 5/8/12 |
|              | Zebra Chip Increase (10)                       | 5/8/12  |
|              | Western and Southwest Chip (12)                | 5/8/12  |
|              | Commercial Variety (8)                         | 5/8/12  |
|              | Texas Advanced Chip Selections (30)            | 5/8/12  |
|              | Western Russets (20)                           | 5/8/12  |
|              | Texas Advanced Russet Selections (50)          | 5/8/12  |
|              | **Total Entries**                              | 870     |
Seedlings for Selection in Texas - 2012

Seedlings planted at Springlake

<table>
<thead>
<tr>
<th>Source</th>
<th>Families</th>
<th>Total Planted</th>
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<tbody>
<tr>
<td>USDA Aberdeen, ID</td>
<td>100</td>
<td>4,726</td>
</tr>
<tr>
<td>North Dakota</td>
<td>133</td>
<td>13,594</td>
</tr>
<tr>
<td>Oregon (Late Planting)</td>
<td>222</td>
<td>16,324</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>455</strong></td>
<td><strong>34,644</strong></td>
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Seedlings planted at Dalhart

<table>
<thead>
<tr>
<th>Source</th>
<th>Families</th>
<th>Total Planted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colorado</td>
<td>82</td>
<td>18,088</td>
</tr>
<tr>
<td>Texas</td>
<td>44</td>
<td>5,440</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>18</td>
<td>3,247</td>
</tr>
<tr>
<td>North Dakota</td>
<td>24</td>
<td>3,590</td>
</tr>
<tr>
<td>Oregon</td>
<td>24</td>
<td>2,184</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>192</strong></td>
<td><strong>32,549</strong></td>
</tr>
</tbody>
</table>

Grand Total – 67,193 seedlings from 647 families (crosses) were planted in 2012.
Red and Specialty Selections/ Varieties

Red Skin/White Flesh Selections

**Dark Red Norland(001)** - Oblong Red. Parentage (Redcoat x ND626). Cross was made and selected in North Dakota. Dark Red Norland is a clonal selection made by Stan Barrett of Texas and propagated by Gene Shaver, Nebraska. Early maturity. Medium vine size. Purple flower color.

- Uses: fresh.
- Strengths: early maturity, dark red tubers, high resistance to PVA and moderate resistance to common scab, PVY and PLRV.
- Weaknesses: tuber color will fade if allowed to fully mature, tubers exhibit variable tuber color and size, enlarged lenticels, will heat sprout and hollow heart, susceptible to PVS and early and late blights, rough, deep eyes, faded red skin, rusting silver scurf, pointed, Rhizoctonia

Cutting Notes: poor skin finish, silver scurf

**Red LaSoda(003)** - 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, flat

**ATTX98453-6R(005)** - Round Red. Parentage (A93490-1R x A91846-5R). Cross was made in Aberdeen, tuberling produced in Texas and selected in Texas.

- Uses: fresh.
- Strengths:
- Weaknesses:

Cutting Notes: large, nice, flat


- Uses: fresh.
- Strengths:
- Weaknesses:

Cutting Notes: nice shape, large tubers

**CO00291-5R(009)** - Round Red. Parentage (CO94019-1R x Rio Colorado). Cross was made and selected in Colorado. Medium late maturity. Large vine size. Dark red purple flower color.

- Uses: specialty.
- Strengths: nice color

Cutting Notes: late, small, yield-, low yield, heat sprouts++, drop+++, light set

Cutting Notes: nice shape, deep red skin color
**OR04131-2(011)**- Round Dark Red. Parentage (Mazama x Modoc). Cross was made in and selected in Oregon. Medium maturity. Small-medium vine size. Purple flower color.

Uses: fresh.
Strengths: 
Weaknesses: 
Cutting Notes: small, poor skin finish, nice shape

**ATTX98453-6R(013)**- 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: BOT- in basket, shallow eyes, smooth, BOT nice, yield+, smooth, light skin color, BOT+, yield+, poor skin finish, no heat sprouts
Weaknesses: some feathering , bad rep, small, yield-
Cutting Notes: deep eyes, flat, nice skin

**CO04159-1R(015)**- 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: 
Weaknesses: 
Cutting Notes: nice shape and skin, hollow heart

**COTX02172-1R(017)**- 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: uniform heavy set++, nice flesh+, small potato
Weaknesses: small
Cutting Notes: nice shape, purple streaks in flesh

**COTX02293-4R(019)**- 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: 
Weaknesses: 
Cutting Notes: small, some hollow heart

**AOTX91861-4R(021)**- Oblong Red. Parentage (Red LaSoda x ND2224-5R). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium-late maturity. Medium vine size. Red-purple flower color.

Uses: fresh.
Strengths: nice flesh yield+ little heat sprouts heavy set, keep, BOT-, nice flesh
Weaknesses: feathering, black heart, drop, variable size, long sprouts, heat sprouts++
Cutting Notes: 

**ATTX01178-1R(023)**- Oblong Red. Parentage (ND5084-3R x Winema). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh.
Strengths: nice, keep, BOT in basket nice, yield+
Weaknesses: feathering++, drop, early, some pointed, large tubers, sticky stolon
Cutting Notes: large tubers, nice shape, hollow heart
**ATTX88481-1P/W(025)** - Oblong Purple. Parentage (A83302-1 x Bison). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

- **Uses**: fresh.
- **Strengths**: nice flesh
- **Weaknesses**: feathering, rough, small, yield-, low yield, feathering, drop
- **Cutting Notes**:

**BTX2332-1R(027)** - 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**: nice red skin, no feathering, nice, yield+, b size BOT- in basket, smooth BOT-
- **Weaknesses**: feathering ,heat sprouts, silver scurf, light set, low yield
- **Cutting Notes**: nice shape and size, BOT, purple streaks in flesh


- **Uses**: fresh.
- **Strengths**: good color+
- **Weaknesses**: poor skin finish++, buff, drop for skin finish, yield-, light set, small, heat sprouts, drop++, silver scurf, poor skin finish
- **Cutting Notes**: large, flat, deep eyes


- **Uses**: fresh.
- **Strengths**: nice flesh, did not oversize, shallow eyes
- **Weaknesses**: late, small, yield-, sticky stolon, feathering+, heat sprouts+
- **Cutting Notes**: nice shape and skin

**NDTX4784-7R(033)** - 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.
- **Strengths**: nice shape, nice appearance, high yield, good color, heavy set BOT+, smooth
- **Weaknesses**: road map, silver scurf, light set, poor skin finish: silver scurf
- **Cutting Notes**: nice shape


- **Uses**: fresh.
- **Strengths**: nice+, nice flesh
- **Weaknesses**: small, yield-, feathering+++, low yield, light set, sticky stolon, drop++++
- **Cutting Notes**:


- **Uses**: fresh.
- **Strengths**: good color nice, yield+, nice shape
- **Weaknesses**: feathering++, ZC?, zipper eye, drop+ light set, drop
- **Cutting Notes**:
**NDTX5438-11R(039)**- 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: nice shape
- Weaknesses: feathering, light set, small
- Cutting Notes:

**Chieftain(041)**- Round Red. Parentage (la1027-18 x La1354). Cross was made and selected at Iowa State University.

- Uses: fresh.
- Strengths:
- Weaknesses: feathering, light set
- Cutting Notes: nice shape, light skin, poor internals (brownspot)

**Rio Rojo - (Protected – PVP)(043)**- Round-oval Red. Parentage (ND1562-4R x NDTX9-1098-11R). Evaluated as NDTX4304-1R. Cross was made in North Dakota and selected in Texas. Early to medium maturity. Medium vine size. Dormancy is similar to Red LaSoda but longer than Dark Red Norland.

- Uses: fresh.
- Strengths: nice shape
- Weaknesses: mixed, light set, rot ZC?, bad rep, low yield
- Cutting Notes: nice skin and shape

**ATTX06246-1R(045)** - Red. Parentage (Gogu Valley x Modoc) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas

- Uses: fresh.
- Strengths small potato+, very dark skin, BOT in basket, good flesh color, nice flesh:
- Weaknesses: no seed, dropped
- Cutting Notes: small, uniform, nice color

**COTX07054-2R(047)**- Oblong Red. Parentage (ATDC9801-3P x CO99076-6R) Cross was made in Colorado and selected in Texas.

- Uses: fresh.
- Strengths: BOT in basket
- Weaknesses: small
- Cutting Notes: small, nice color

**NDTX050070-1R(049)**- Round Red. Parentage (ND 8375b-6R x ND 8347CB-12R). Cross was made in North Dakota and selected in Texas.

- Uses: fresh.
- Strengths: heavy set, small potato
- Weaknesses: b size small, heat sprouts, drop+,
- Cutting Notes: small, nice color, some rot

**NDTX081572B-1R(051)**- Red. Parentage (ND 4659-5R x ND 028940B-102R) Cross was made in North Dakota and selected in Texas.

- Uses: fresh.
- Strengths:
- Weaknesses:
- Cutting Notes: small, nice shape
**NDTX4271-5R(053)** - Round Red. Parentage (NDTX9-1068-1R x ND2050-1R). Cross was made in North Dakota and selected in Texas. Early to medium maturity. Medium vine size.

- Uses: fresh.
- Strengths: smooth nice, good color, nice shape
- Weaknesses: light set+ growth cracks
- Cutting Notes: nice shape and skin, BOT

**NDTX731-1R(055)** - Round Red. Parentage (ND169-10R x ND9476-5). Cross was made in North Dakota and selected in Texas. Early maturity. Medium-large vine size.

- Uses: fresh.
- Strengths: nice, nice red skin finish, nice round shape, parent BOT
- Weaknesses: yield-, ZC?, low yield, poor skin finish, bad rep
- Cutting Notes: nice shape and skin, BOT

**Red Yellow Flesh Selections**

**ATTX98468-5R/Y(057)** - Oblong Red. Parentage (ATD252-5R x A93457-4R). Cross was made in Aberdeen, tuberling produced in Texas and selected in Texas.

- Uses: fresh.
- Strengths: 
- Weaknesses: 
- Cutting Notes: very nice, light skin, FL=3.2

**COTX01403-4R/Y(059)** - Oblong Red/Yellow Parentage (VC1015-7R/Y x Winema). Cross was made in Colorado and selected in Texas.

- Uses: specialty.
- Strengths: nice, BOT+
- Weaknesses: ZC? oversized++, knobs, poor skin finish, poor internals, vascular brownspot, ugly, large tuber, rough, poor shape 1FC =3.0
- Cutting Notes: very nice shape, light skin, large tubers, FL=3.2

**CO04021-2R/Y(061)** - Oblong Red/Yellow. Parentage (ATC98509-1R/Y x US147-96R/Y). Cross was made and selected in Colorado. Medium maturity. Large vine size. Light purple flower color.

- Uses: specialty.
- Strengths: nice, nice flesh+, smooth
- Weaknesses: small light skin,
- Cutting Notes: very large tubers, FL=3.3


- Uses: fresh.
- Strengths: 
- Weaknesses: 
- Cutting Notes: very nice, BOT

**CO04067-8R/Y(065)** - 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: 
- Cutting Notes: nice skin and flesh, FL=3.5
CO04188-4R/Y(067) - Oblong Red. Parentage (ATC98515-1R/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:
Cutting Notes: very nice skin and dark yellow flesh, FL=3.7

ATTX01180-1R/Y(069) - 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: nice flesh FC=3.8 very dark yellow flesh BOT
Weaknesses: feathering, mixed, bad rep, low yield rough shape+
Cutting Notes: purple streaks, nice skin

ATTX88654-2P/Y(071) - Oblong Purple/Yellow. Parentage (PI343201 x Gurney's Purple). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: specialty.
Strengths:
Weaknesses: deep eyes, deep stem attachment
Cutting Notes:


Uses: specialty.
Strengths: smooth, nice, BOT+ FC=2.5
Weaknesses: heat sprouts, small
Cutting Notes: very light yellow flesh, nice shape and skin, FL=2.5

ATTX961014-1R/Y(075) - 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: smooth, very nice, BOT++ FC=2.5
Weaknesses: sliver scurf, small, very light flesh
Cutting Notes: very light yellow flesh, nice shape and skin, red streaks in flesh FL=2.5

ATTX98462-3R/Y(079) - Oblong Red. Parentage (ATD251-5RY x BO811-13RY). Cross was made in Aberdeen, tuberling produced in Texas and selected in Texas.

Uses: fresh.
Strengths:
Weaknesses:
Cutting Notes: very light flesh, hollow heart, FL=2.0
**ATTX98510-1R/Y(081)**- 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: very heavy set, high yield heavy set, FC=2.7
   Weaknesses: deep eyes, 10% ZC?, stem attachment, rough, small, very light flesh+, drop
   Cutting Notes: nice shape, light flesh and skin, FL=3.0

**BTX2103-1R/Y(083)**- 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: nice, small, smooth, keep FC=3.5 BOT
   Weaknesses: some pointed, poor shape, rough
   Cutting Notes: nice shape, light skin and flesh, FL=2.6

**COTX04193-2R/Y(085)**- 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: small potato, nice dark flesh, very heavy set+, b size, BOT small, BOT-, nice flesh++ FC=4.5
   Weaknesses: silver scurf
   Cutting Notes: small, FL=2.8

**COTX04267-1R/Y(087)**- Oblong Red/Yellow. Parentage (CO98012-5R x CO97232-2R/Y). Cross was made in Colorado and selected in Texas. Late maturity. Medium vine size.
   Uses: specialty.
   Strengths: very nice flesh, heavy set FC=4.4
   Weaknesses: light skin, growth cracks, rough, ZC?, small, poor shape
   Cutting Notes: light skin, feathering, FL=3.0

**NDTX050184-1R/Y(089)**- 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: nice skin, heavy set, b size, BOT+ keep, small potato FC=2.5
   Weaknesses: very light flesh, feathering
   Cutting Notes: nice skin and color, FL=2.5

**White Yellow Flesh Selections**

   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: light yellow flesh, nice shape, FL=2.3
**Sierra Gold (Protected - PVP)(091)** - Round-oblong Russet/Yellow. Parentage (Krantz x Delta Gold). Cross was made and selected in Texas. Early maturity. Medium vine size.

- Uses: specialty.
- Strengths: nice, very nice FC=3.0
- Weaknesses: low yield, poor shape, knobs, light set, rot
- Cutting Notes: nice, light yellow flesh, best of trial, FL=2

**Emma(093)** - Round White/Yellow. Parentage (Colleen x Estima). Cross was made and selected by Teagasc Crops Research Centre, Carlow, Ireland. Early maturity. Medium vine size. White flower color.

- Uses: fresh.
- Strengths: high yield, combines earliness with good resistance to the most common potato diseases and good skin finish.
- Weaknesses:
- Cutting Notes: nice shape, light flesh

**Lanorma(095)** - Oval White/Yellow. Parentage (Bydand x Caesar). Cross was made and selected by Den Hartigh BV, Emmeloord, Netherlands. Early maturity. Medium vine size. White flower color.

- Uses: fresh.
- Strengths: very good yield, fairly firm texture, free from discoloration, fairly high dry matter content
- Weaknesses:
- Cutting Notes: nice shape, light flesh

**ATX03564-1Y/Y(097)** - Oblong White/Yellow. Parentage (NDS5507-3YF x Granola). Cross was made in Aberdeen and selected in Texas.

- Uses: fresh.
- Strengths:
- Weaknesses:
- Cutting Notes: skinny, FL=2.5

**CO04013-1W/Y(099)** - Round White. Parentage (ATC98495-1W/Y x CO97237-5W/Y). Cross was made and selected in Colorado. Medium maturity. Medium large vine size. Purple flower color.

- Uses: specialty.
- Strengths: very nice dark yellow flesh
- Weaknesses: heat sprouts very small, grape size, low yield, drop+
- Cutting Notes: nice shape, small, FL=3.0


- Uses: specialty.
- Strengths:
- Weaknesses:
- Cutting Notes: nice shape and flesh, smooth, FL=3.0
COTX04015-3W/Y(103)-Oblong White/Yellow Parentage (ATC98515-1R/Y x ATC98444-1R/Y). Cross was made in Aberdeen and selected in Texas. Medium-late maturity. Large vine size. Lavender flower color
   Uses: specialty.
   Strengths:
   Weaknesses:
   Cutting Notes: nice shape, dark yellow flesh, best of trial, FL=3.5

CO04029-5W/Y(105)-Oval White/Yellow. Parentage (ATC98515-1R/Y x PA99P35-1). Cross was made and selected in Colorado. Medium maturity. Large vine size. Red-purple flower color.
   Uses: specialty.
   Strengths:
   Weaknesses:
   Cutting Notes: nice shape and flesh, FL=3.3

CO04099-3W/Y(107)-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:
   Weaknesses:
   Cutting Notes: nice shape, light flesh, FL=2.5

   Uses: specialty.
   Strengths:
   Weaknesses:
   Cutting Notes: nice shape, dark yellow flesh, FL=3.5

TX1674-1W/Y(111)-Oblong White/Yellow. Parentage (Russet Nugget x Delta Gold). Cross was made and selected in Texas. Medium-late maturity. Medium-large vine size. Lavender flower color.
   Uses: specialty.
   Strengths: smooth few misshaped, oblong to long FC=2.8
   Weaknesses: dumbbell, long rough, drop, heat sprouts CR
   Cutting Notes: small tubers, FL=3.0

NDTX081451CB-1Y/Y(113)-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: heavy set and yield, nice flesh, few culls, small FC=3.0
   Weaknesses: (bad rep, drop?)
   Cutting Notes: buff skin, very nice

BTX1749-1W/Y(115)-Oblong White/Yellow. Parentage (K7-6 x BO925-4). Cross was made in Beltsville, Maryland and selected in Texas. Medium maturity. Large vine size.
   Uses: specialty.
   Strengths: nice flesh
   Weaknesses: low yield, slight russet skin FC=3.0
   Cutting Notes: small, buff skin, FL=3.0
COTX07382-1W/Y(117)-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: few culls, FC=2.0
  Weaknesses: poor internals, rough, oblong to long, knobs
  Cutting Notes: small, nice skin and flesh, FL=3.3

COTX07382-2W/Y(119)-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: high biomass FC=2.0
  Weaknesses: oversized, rough, many culls,
  Cutting Notes: raised eyes, rough, ugly, FL=2.0

ATTX06274-2W/Y(121)-Oblong White Yellow. Parentage (C0A99261-IRY x VC1075-IR) Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Early maturity. Small vine size.

  Uses: fresh.
  Strengths: smooth+ FC=2.4
  Weaknesses: bad rep, drop,
  Cutting Notes: nice flesh, raised eyes, FL=3.5

BTX1544-2W/Y(123)-Oblong White/Yellow. Parentage (BO811-13 x Yukon Gold). Cross was made in Beltsville, Maryland and selected in Texas. Medium maturity. Medium vine size.

  Uses: specialty.
  Strengths: FC=2.5 BOT
  Weaknesses: poor skin appearance, low yield, light set, drop+
  Cutting Notes: buff skin, nice flesh, FL=3.0

NDTX059759-3Pinto/Y(125)-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: FC=2.0
  Weaknesses: poor shape, small tubers, low yield, light set
  Cutting Notes: nice dark yellow flesh, red streaks in flesh FL=3.7

NDTX081803Ab-2Y/Y(127)-Yellow/Yellow. Parentage (793101.3 X ND 039163Ab-209) Cross was made in North Dakota and selected in Texas.

  Uses: specialty.
  Strengths: 
  Weaknesses: 
  Cutting Notes: 

Purple-Red Skin/ Purple-Red Flesh Selections

Purple Majesty(029) - 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: yield+, small, smooth
  Weaknesses: road map, alligator skin, silver scurf
  Cutting Notes: nice shape, very dark flesh, nice shape
**CO03027-2R/R(031)** - Round Red. Parentage (Mountain Rose x POR00PG2-16P/P). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White flower color.
- Uses: specialty.
- Strengths:
- Weaknesses:
- Cutting Notes: nice red flesh

**CO04045-4P/P(033)** - Round Purple. Parentage (CO97215-2P/P x CO97216-1P/P). Cross was made and selected in Colorado. Medium early maturity. Small vine size. White flower color.
- Uses: specialty.
- Strengths:
- Weaknesses:
- Cutting Notes: very dark flesh

**COTX05082-2P/P(035)** - Oblong Purple/Purple. Parentage (CO97227-2P/P x WMSG147-3). Cross was made in Colorado and selected in Texas.
- Uses: specialty.
- Strengths: keep, very dark flesh
- Weaknesses:
- Cutting Notes: very dark flesh, keep for flesh

**Small Potato Selections**

**AOTX06598-1R(001)** - Oblong Russet. Parentage (A031087-79 x ND4659-5R). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.
- Uses: fresh.
- Strengths:
- Weaknesses:
- Cutting Notes: small potato

**ATTX05186-3W/Y(003)** - 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:
- Weaknesses:
- Cutting Notes: small potato

**ATX05186-1R(005)** - Oblong Red. Parentage (A99433-5Y x VC1075-1R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.
- Uses: fresh.
- Strengths:
- Weaknesses:
- Cutting Notes: small potato

**ATX05186-2R(007)** - Oblong Red. Parentage (A99433-5Y x VC1075-1R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.
- Uses: fresh.
- Strengths:
- Weaknesses:
- Cutting Notes: small potato
**ATX08153-1Y/Y (011)**-Round Yellow/Yellow. Parentage (A00286-3Y x 93-1285-6) Cross was made in Aberdeen and selected in Texas.
   - Uses: specialty.
   - Strengths:
   - Weaknesses:
   - Cutting Notes: small potato

**COTX08046-8P/P(013)**- Purple/Purple. Parentage (FF x KP (501) x Magic Molly) Cross was made in Colorado and selected in Texas.
   - Uses: specialty.
   - Strengths:
   - Weaknesses:
   - Cutting Notes:

**COTX08291-7W(017)**-Round White. Parentage (PA99N82-4 x Summit Russet) Cross was made in Colorado and selected in Texas.
   - Uses: specialty.
   - Strengths:
   - Weaknesses:
   - Cutting Notes: small potato

**COTX08376-1R(19)**- Red. Parentage (US147-96 x POR01PG22-1) Cross was made in Colorado and selected in Texas.
   - Uses: specialty.
   - Strengths:
   - Weaknesses:
   - Cutting Notes: small potato

**ATTX05175-1R/Y(023)**-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: heavy set, very dark flesh, TC, nice flesh and skin
   - Weaknesses: drop, too large, light red skin, variable skin color, too small
   - Cutting Notes: small potato

**ATTX98444-16R/Y(025)**-Oblong Red/Yellow. Parentage (A83360-9R X T48YF). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.
   - Uses: specialty.
   - Strengths: nice flesh
   - Weaknesses: light set, poor skin finish, light set, bad rep, poor internal, drop+
   - Cutting Notes: small potato

**ATX05202-3W/Y(027)**-Oblong White/Yellow. Parentage (A00286-3Y x A99433-5Y). Cross was made in Aberdeen and selected in Texas.
   - Uses: specialty.
   - Strengths: heavy set BOT TC, BOT-
   - Weaknesses: poor skin finish, large tubers, too many large tubers, 10% ZC?
   - Cutting Notes: small potato
**ATX07305-1Y/Y(031)** - Yellow/Yellow. Parentage (A99433-5Y x Mila) Cross was made in Aberdeen and selected in Texas
- Uses: specialty.
- Strengths: nice flesh, smooth, heavy set, TC, BOT-, BOT+
- Weaknesses: little rough, big? some nipples, heat sprouts
- Cutting Notes: small potato

**COTX04050-1P/P(033)** - Oblong Purple/Purple. Parentage (CO97215-2P/P x CO97306-2P/P). Cross was made in Colorado and selected in Texas
- Uses: specialty.
- Strengths: heavy set TC, very dark flesh, BOT
- Weaknesses: variable flesh color, all blue like flesh, silver scurf
- Cutting Notes: small potato

**NDTX059886-1Y/Y(035)** - Oblong Yellow/Yellow. Parentage (ND 7192-1 x ND 8178-1Y). Cross was made in North Dakota and selected in Texas.
- Uses: specialty.
- Strengths: TC, baby baker, heavy set
- Weaknesses: variable skin finish, light flesh, round to oblong, light set, bad rep poor rep, light set, larger tubers
- Cutting Notes: small potato

**NDTX071258B-1R(037)** - Round Red. Parentage (ND 039035B-9R x ND 4659-5R) Cross was made in North Dakota and selected in Texas.
- Uses: specialty.
- Strengths: heavy set, not many culls, white flesh, BOT-, TC
- Weaknesses: deep eyes
- Cutting Notes: small potato

**Fingerling Selections**

**Banana(039)** - 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: light set, drop, very small, poor shape, all culls, small curved, pointed
- Cutting Notes: skinny, rough, FL=2.5

**Purple Peruvian(041)** - Long Purple/Purple. Parentage (ND1562-4R x NDTX9-1098-11R).
- Uses: specialty.
- Strengths: nice flesh color
- Weaknesses: all blue like flesh, drop, darker flesh, very small deep eyes, small
- Cutting Notes: very dark flesh, deep eyes, FL=5.0

- Uses: specialty.
- Strengths:
- Weaknesses:
- Cutting Notes: poor shape, red/white flesh
COTX08045-2R(047)-Long Red/Red. Parentage (FF x KP (501) x POR01PG22-1) Cross was made in Colorado and selected in Texas.
   Uses: specialty.
   Strengths:
   Weaknesses:
   Cutting Notes: fingerling

COTX08046-2R(049)-Red. Parentage (FF x KP (501) x Magic Molly) Cross was made in Colorado and selected in Texas.
   Uses: fresh.
   Strengths:
   Weaknesses:
   Cutting Notes: fingerling

COTX08046-3R/R(051)-Long Red/Red. Parentage (FF x KP (501) x Magic Molly) Cross was made in Colorado and selected in Texas.
   Uses: specialty.
   Strengths:
   Weaknesses:
   Cutting Notes: fingerling

COTX08046-9P/P(055)-Long Purple/Purple. Parentage (FF x KP (501) x Magic Molly) Cross was made in Colorado and selected in Texas.
   Uses: specialty.
   Strengths:
   Weaknesses:
   Cutting Notes: fingerling

COTX08056-10R(057)-Red. Parentage (French Fingerling x POR01PG22-2) Cross was made in Colorado and selected in Texas.
   Uses: fresh.
   Strengths:
   Weaknesses:
   Cutting Notes: fingerling

COTX08056-12R/R-Long Red/Red. Parentage (French Fingerling x POR01PG22-2) Cross was made in Colorado and selected in Texas.
   Uses: specialty.
   Strengths:
   Weaknesses:
   Cutting Notes:

COTX08056-5R/R(061)-Red/Red. Parentage (French Fingerling x POR01PG22-2) Cross was made in Colorado and selected in Texas.
   Uses: specialty.
   Strengths:
   Weaknesses:
   Cutting Notes: fingerling
**COTX08056-6R/R(063)** - Long Red/Red. Parentage (French Fingerling x POR01PG22-2) Cross was made in Colorado and selected in Texas.

- Uses: specialty.
- Strengths:
- Weaknesses:
- Cutting Notes: fingerling

**COTX08365-1P/P(067)** - Long Purple/Purple. Parentage (POR01PG16-1 x CO00405-1R) Cross was made in Colorado and selected in Texas.

- Uses: specialty.
- Strengths:
- Weaknesses:
- Cutting Notes:

**COTX08365-4R/R(071)** - Long Red/Red. Parentage (POR01PG16-1 x CO00405-1R) Cross was made in Colorado and selected in Texas.

- Uses: specialty.
- Strengths:
- Weaknesses:
- Cutting Notes: fingerling

**COTX08365-5P/P(073)** - Long Purple/Purple. Parentage (POR01PG16-1 x CO00405-1R) Cross was made in Colorado and selected in Texas.

- Uses: specialty.
- Strengths:
- Weaknesses:
- Cutting Notes: fingerling

**COTX08367-2R/R(075)** - Long Red/Red. Parentage (POR01PG20-12 x CO00405-1R) Cross was made in Colorado and selected in Texas.

- Uses: specialty.
- Strengths:
- Weaknesses:
- Cutting Notes: fingerling

**COTX08376-2R/Y(077)** - Long Red/Yellow. Parentage (US147-96 x POR01PG22-1) Cross was made in Colorado and selected in Texas.

- Uses: specialty.
- Strengths:
- Weaknesses:
- Cutting Notes: fingerling

**COTX08387-1R/R(079)** - Long Red/Red. Parentage (French Fingerling x POR01PG20-12) Cross was made in Colorado and selected in Texas.

- Uses: specialty.
- Strengths:
- Weaknesses:
- Cutting Notes: fingerling
**COTX03187-1W(081)**- Long White. Parentage (A93570-13 x CO96109-4RU). Cross was made in Colorado and selected in Texas.
  Uses: specialty.
  Strengths:
  Weaknesses:
  Cutting Notes: fingerling

**COTX07168-1Ru(083)**- Long Russet. Parentage (A89219-7RU x AC97306-1RU) Cross was made in Colorado and selected in Texas.
  Uses: fresh.
  Strengths:
  Weaknesses: oversized, large tubers, poor internal, very light russet, too fat
  Cutting Notes:

**PTTX05PG07-1W(085)**- Long White. Parentage (POR01PG22-1 x OR00067-7). Cross was made in Prosser, Washington, tuberling produced in Texas and selected in Texas.
  Uses: specialty.
  Strengths: smooth shape, nice flesh, smooth BOT
  Weaknesses: light set, bad rep
  Cutting Notes: fingerling

**TX08378-3R(089)**- Long Red. Parentage (POR01PG20-12 x POR02PG26-5) Cross was made and selected in Texas.
  Uses: fresh.
  Strengths: heavy set, light yellow flesh with red center, BOT
  Weaknesses: oversized
  Cutting Notes: fingerling
Russet, Chip Selections/Varities

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 malformities, mediocre performance in Texas, feathering, sticky stolon, drop
- Cutting Notes: poor shape

Russet Burbank(003)- 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: blocky, small, hollow heart

Russet Norkotah(005)- 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 and early blight Rhizoctonia.
- Cutting Notes: nice shape, large tubers

A01010-1(007)- Long Medium Russet. Parentage (A92303-7 x A96004-8). Cross was made and selected in Aberdeen. Medium maturity. Medium large vine size. White flower color

- Uses: dual.
- Strengths: nice skin, blocky
- Weaknesses: skinny
- Cutting Notes: blocky, small


- Uses: dual.
- Strengths:
- Weaknesses:
- Cutting Notes: skinny
- Uses: dual.
- Strengths:
- Weaknesses:
- Cutting Notes: blocky, pear shaped

- Uses:
- Strengths:
- Weaknesses:
- Cutting Notes: blocky, nice shape

- Uses: dual.
- Strengths:
- Weaknesses:
- Cutting Notes: blocky, nice

**AC00395-2RU(017)**-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: nice skin, blocky+ heavy set
- Weaknesses: small
- Cutting Notes: small

**AO00057-2(019)**-Oblong Russet. Parentage (A91048-3 x A93116-3BSR). Cross was made in Aberdeen, and selected in Oregon. Medium maturity. Medium vine size. White flower color.
- Uses: dual.
- Strengths:
- Weaknesses:
- Cutting Notes: nice, blocky

- Uses: dual.
- Strengths:
- Weaknesses:
- Cutting Notes: small skinny

**AO02183-2(023)**-Long Russet. Parentage (A97236-3 x Premier). Cross was made in Aberdeen, and selected in Oregon. Medium-late maturity. Large vine size. White flower color.
- Uses: dual.
- Strengths:
- Weaknesses:
- Cutting Notes: round
**AO96305-3(025)**-Long Russet. Parentage (A91018-6 x A89152-4). Cross was made in Aberdeen, and selected in Oregon. Medium maturity. Medium vine size. Red-purple flower color.

- Uses: dual.
- Strengths:
- Weaknesses:
- Cutting Notes: small skinny


- Uses: fresh.
- Strengths: blocky
- Weaknesses: light set++, small
- Cutting Notes: small, skinny, rough

**CO03202-1RU(029)**-Oblong White. Parentage (AC96010-3RU x Canela Russet). Cross was made and selected in Colorado. Late maturity. Very large-large vine size. White flower color.

- Uses: dual.
- Strengths:
- Weaknesses: skinny++, many culls+, poor shape
- Cutting Notes: skinny

**CO03276-4RU(031)**-Oblong Russet. Parentage (CO95086-8RU x Blazer Russet). Cross was made and selected in Colorado. Medium maturity. Medium large vine size. White flower color.

- Uses: dual.
- Strengths:
- Weaknesses: light set++, small++,
- Cutting Notes: nice shape

**CO03276-5RU(033)**-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: dual.
- Strengths:
- Weaknesses: low yield, small, light set, low yield, ugly
- Cutting Notes: blocky, some rough

**AOTX02136-1RU(035)**- Oblong Russet. Parentage (A96563-8 x A92030-5). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium-late maturity. Small vine size. White flower color.

- Uses: fresh.
- Strengths:
- Weaknesses:
- Cutting Notes: nice large tubers, some rough

**CO04211-4RU(037)**-Oblong Russet. Parentage (CO96045-1RU x CO98009-3RU). Cross was made and selected in Colorado. Early maturity. Small vine size. White flower color.

- Uses: dual.
- Strengths:
- Weaknesses:
- Cutting Notes: blocky
**CO04220-7RU(039)**- Long Russet. Parentage (CO96109-7RU x Summit Russet). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.
- Uses: dual.
- Strengths:
- Weaknesses:
- Cutting Notes: some curved, hollow heart

**CO04233-1RU(041)**- Oblong Russet. Parentage (CO97138-3RU x Summit Russet). Cross was made and selected in Colorado. Medium-early maturity. Medium vine size. White flower color.
- Uses: fresh.
- Strengths:
- Weaknesses:
- Cutting Notes: blocky

**AOTX96075-1Ru(043)**- Long Russet. Parentage (A84118-3 x A89384-10). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Late maturity. Large vine size. White flower color.
- Uses: fresh.
- Strengths:
- Weaknesses: drop? skinny, small, very low yield
- Cutting Notes:

**AOTX96216-2Ru(045)**- 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: * in basket nice flesh, BOT, blocky, very nice, large tubers
- Weaknesses: oversized, hollow heart, light set
- Cutting Notes: very large, blocky, nice

**AOTX96265-2Ru(047)**- Oblong Russet. Parentage (A90621-4 x A84180-8). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Late maturity. Large vine size. White flower color.
- Uses: fresh.
- Strengths: nice, * in basket nice skin blocky
- Weaknesses: light set, some pointed, hollow heart oblong, round low yield, small+
- Cutting Notes:

**AOTX98152-3Ru(049)**- 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: nice, light russet skin, nice shape, blocky, heavy set++,
- Weaknesses: small
- Cutting Notes: small, blocky

**ATX91137-1Ru(051)**- Oblong Russet. Parentage (A81473-2 x A8343-12) Cross was made in Aberdeen, and selected in Texas. Late maturity. Medium vine size. Lavender flower color.
- Uses: fresh.
- Strengths: heavy set, blocky, BOT-,
- Weaknesses: rough, small, low yield
- Cutting Notes: some pointed, some dry rot
**ATX9332-12Ru(053)** - Oblong Russet. Parentage (A8850-1 x A88288-1). Cross was made in Aberdeen and selected in Texas. Late maturity. Large vine size. White flower color.

- **Uses**: fresh.
- **Strengths**: nice flesh
- **Weaknesses**: oversized, heat sprouts, small, all rot, bad rep, light set
- **Cutting Notes**: poor shape, purple steaks in flesh

**TX4549-1Ru(055)** - 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**: blocky, keep, * in basket, nice, BOT+, heavy set, very nice, blocky, BOT+,
- **Weaknesses**: low yield
- **Cutting Notes**: blocky, nice shape

**Stampede Russet(057)** - 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, * in basket nice shape, nice, blocky
- **Weaknesses**: rot, light set+, low yield 20ZC small+
- **Cutting Notes**: rough, some curved

**ATTX03475-7Ru(059)** - Oblong Russet. Parentage (NDTX4930-5W X NYII2). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Late maturity. Large vine size.

- **Uses**: fresh.
- **Strengths**: very nice, blocky, heavy set
- **Weaknesses**: small, light set, poor internals, slightly pointed
- **Cutting Notes**: nice shape, small


- **Uses**: fresh.
- **Strengths**: * in basket, yield+, BOT
- **Weaknesses**: oversized: low yield, bad rep, rough
- **Cutting Notes**: nice shape

**AOTX95265-3Ru(063)** - Long Russet. Parentage (A89216-9 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium maturity. Medium vine size.

- **Uses**: fresh.
- **Strengths**: oversized, pointed skinny, pointed, light set, light russet skin
- **Cutting Notes**: small curved
**AOTX96084-1Ru(065)** - Oblong Russet. Parentage (A8792-1 X A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium maturity. Large vine size. White flower color.

- **Uses**: fresh.
- **Strengths**:
- **Weaknesses**: light set, oversized, pointed, small, low yield
- **Cutting Notes**: blocky

**AOTX98202-1Ru(067)** - 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**: heavy set, nice shape+, large tubers
- **Weaknesses**: low yield, pointed, knobs, drop?
- **Cutting Notes**: blocky, nice shape

**ATTX03475-10Ru(069)** - Oblong Russet. Parentage (NDTX4930-5W X NYII2). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Medium maturity. Medium vine size.

- **Uses**: fresh.
- **Strengths**: light russet skin, heavy set nice, keep, BOT-, * in basket
- **Weaknesses**: skinny, lot of culls+
- **Cutting Notes**: small, nice shape


- **Uses**: fresh.
- **Strengths**: nice shape, large tubers BOT
- **Weaknesses**: some pointed small, light set
- **Cutting Notes**: large, blocky, nice dark russet

**ATX99013-1Ru(073)** - Long Russet. Parentage (A8893-1 x A91186-2). Cross was made in Aberdeen and selected in Texas. Medium maturity. Medium vine size.

- **Uses**: fresh.
- **Strengths**: nice shape, keep
- **Weaknesses**: low yield, poor shape+, rough, oversized
- **Cutting Notes**: nice shape


- **Uses**: fresh.
- **Strengths**: heavy set+, yield parent, yellow flesh, keep
- **Weaknesses**: poor skin finish, light yellow flesh, small, low yield
- **Cutting Notes**: small, nice yellow flesh, FL=3.0

**COTX07009-8Ru(077)** - Oblong Russet. Parentage (AC97306-1RU x CO99053-3RU) Cross was made in Colorado and selected in Texas. Late maturity. Large vine size. White flower color.

- **Uses**: fresh.
- **Strengths**:
- **Weaknesses**:
- **Cutting Notes**: small
COTX07206-1Ru(079)-Long Russet. Parentage (AC97306-1RU x CO99028-2RU) Cross was made in Colorado and selected in Texas. Late maturity. Large vine size. White flower color.
   Uses: fresh.
   Strengths: nice white flesh
   Weaknesses: skinny
   Cutting Notes: skinny

COTX08080-7Ru(081)-Oblong Russet. Parentage (A95409-1 x CO02098-3RU) Cross was made in Colorado and selected in Texas.
   Uses: fresh.
   Strengths:
   Weaknesses:
   Cutting Notes: blocky, nice shape

COTX08117-1Ru(083)-Oblong Russet. Parentage (A99073-1 X Summit Russet) Cross was made in Colorado and selected in Texas.
   Uses: fresh.
   Strengths:
   Weaknesses:
   Cutting Notes: nice shape and skin

COTX08121-3Ru(085)-Russet. Parentage (AC96052-1RU X Blazer Russet) Cross was made in Colorado and selected in Texas.
   Uses: fresh.
   Strengths:
   Weaknesses:
   Cutting Notes: light russet

TX08350-12Ru(089)-Russet. Parentage (TXA549-1Ru x AC96052-1RU). Cross was made and selected in Texas.
   Uses: fresh.
   Strengths:
   Weaknesses:
   Cutting Notes: large tubers

TXNS410(091)-Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. TXNS410 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah. Early maturity. Medium-large vine size. White flower color.
   Uses: fresh
   Strengths:
   Weaknesses: hollow heart, light set, low yield
   Cutting Notes: small, nice shape
Chip Selections


*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, oversize

*Chip Notes:* nice, hollow heart

*Cutting Notes:* buff skin, nice shape

**Chipeta(093)**-Oblong White. Parentage (WNC612-13 x Wischip). Cross was made in Aberdeen and selected in Colorado. Released by USDA-ARS, Aberdeen, and Colorado Agricultural Experiment Stations. Late maturity. Large vine size. Red-Reddish purple corollas and large yellow anthers.

*Uses:* chip and French fries.
*Strengths:* High yield potential, high specific gravity and low sugar accumulation in storage will occasionally chip out of 40° 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

*Chip Notes:* CR=2

*Cutting Notes:* Rhizoctonia, nice shape

**A00188-3C(095)**-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:*

*Cutting Notes:* growth cracks, nice shape.

**A01143-3C(097)**-Round White. Parentage (COA95070-8 x Chipeta). Cross was made and selected in Aberdeen. Medium late maturity. Medium vine size. White flower color

*Uses:* chip.
*Strengths:*
*Weaknesses: heat sprouts++, low yield, light set

*Chip Notes:* CR=1

*Cutting Notes:* small
AC01151-5W(099)-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 heavy set+
  Weaknesses: heat sprouts, bad rep, small, poor shape, drop, poor internals, brown ring in vascular ring, greenhead
  Chip Notes: CR=1
  Cutting Notes: nice shape

AC03433-1W(101)-Round White. Parentage (A94322-8C x COA96141-4). Cross was made in Aberdeen and selected in Colorado.
  Uses: chip.
  Strengths: nice shape smooth
  Weaknesses: sticky stolon, greenhead
  Chip Notes: CR=1
  Cutting Notes: very nice shape

  Uses: chip.
  Strengths:
  Weaknesses: rough, small, did not size
  Chip Notes: CR=1
  Cutting Notes: nice

  Uses: chip.
  Strengths:
  Weaknesses: ugly, many culls rough+, drop
  Chip Notes: CR=1
  Cutting Notes: flat

  Uses: chip.
  Strengths: nice rep
  Weaknesses: greenheads, small, bad rep
  Chip Notes: CR=1+
  Cutting Notes: nice

  Uses: chip.
  Strengths: nice rep, large tubers, yield+
  Weaknesses: rough, small, bad rep
  Chip Notes: CR=1
  Cutting Notes: nice size and shape
**AC00206-2W(111)**-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:
- Weaknesses:
- Cutting Notes: nice shape, hollow heart


- Uses: chip.
- Strengths:
- Weaknesses:
- Cutting Notes: nice shape


- Uses: chip.
- Strengths: yield+, very nice, keep, BOT+
- Weaknesses: pointed,
- Chip Notes: CR=1
- Cutting Notes: rough

**ATTX03474-3W(117)**-Round White. Parentage (NDTX493O-5W X C0A96141-4). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Late maturity. Large vine size. White flower color.

- Uses: chip.
- Strengths: keep, medium to heavy set
- Weaknesses: bad rep, heat sprouts++, buff, small,
- Chip Notes: CR=1
- Cutting Notes: small


- Uses: chip.
- Strengths:
- Weaknesses:
- Chip Notes: CR=1
- Cutting Notes: shriveled, small

**NDTX060700C-1W(121)**-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:
- Weaknesses: low yield, drop+++ baby baker, russet skin, very small, mixed flesh
- Chip Notes: BOT, CR=1
- Cutting Notes: small
**NDTX071084C-2W(123)**- Round White. Parentage (ND 6809C-3 x ND 860-2) Cross was made in North Dakota and selected in Texas. Early maturity. Medium vine size.
- Uses: chip.
- Strengths: baby baker, nice, small, keep
- Weaknesses:
- Chip Notes: BOT, CR=1
- Cutting Notes: small

**NDTX071109C-1W(125)**- 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: BOT
- Weaknesses: rough
- Chip Notes: BOT, CR=1
- Cutting Notes: large tubers, rough, nice shape

**NDTX071217CB-1W/Y(127)**- 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: specialty.
- Strengths: some pointed, yellow flesh
- Weaknesses:
- Chip Notes: CR=2
- Cutting Notes: nice shape, yellow flesh, FL=3.0

**NDTX081648CB-13W(129)**- White. Parentage (ND 8456-1 x ND7377CB-1) Cross was made in North Dakota and selected in Texas.
- Uses: chip.
- Strengths:
- Weaknesses:
- Cutting Notes: nice
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