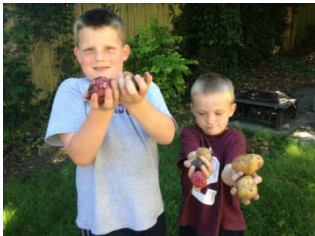


# 2013 Annual Potato Field Day Texas Potato Variety Development Program



Wednesday July 24, 2013

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

Cooperator: Springlake Potato Sales, Inc

Cover: **Planting** Upper R -Springlake 2013 , L-R Mike Jensen, Douglas Scheuring, and Jim Winder. Upper L - Dalhart 2013, L-R - Ronald French, Jammie Moore, Albert Patton III, and Luz Serrato-Diaz. Driver - Gerardo Ramirez

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
	<b>\$203,163</b>

**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
	<b>\$207,163</b>

**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
	<b>\$70,000</b>

**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

Location	Trial	Planted	
Springlake	Red White Flesh (9)	3/29/13	
	Texas Advanced Selection Red (7)	3/29/13	
	Texas Advanced Selection Small Potatoes (15)	3/29/13	
	Texas Advanced Selection Fingerling (5)	3/29/13	
	Red/Purple Skin Red/Purple Flesh (3)	3/29/13	
	Red Skin Yellow Flesh (10)	3/29/13	
	Chip (14)	4/1/13	
	Field Day Russets/Chip (86)	3/27/13	
	Texas Advanced Chip Selection (12)	4/1/13	
	Field Day Red/Specialty (51)	3/27/13	
	Sara Kammlade Trial (25)	3/27/13	
	White Skin Yellow Flesh (10)	4/1/13	
	Russet (31)	4/1/13	
	Texas Advanced Selection White Skin Yellow Flesh (5)	4/1/13	
	Texas Advanced Selection Russets (17)	4/1/13	
	SP-Fert (4)	4/2/13	
	French (10)	4/2/13	
	SP-Fert (4)	4/2/13	
	SP-Fert (4)	4/2/13	
	Commercial Fingerling (13)	4/4/13	
	<b>Total Entries            304</b>		
Dalhart	Ron French Pesticide Trial (15)	5/9/13	
	National Chip (198)	5/7/13	
	11 Selections (434)	5/7/13	
	Western Red (6)	5/8/13	
	Texas Advanced Red Selections (19)	5/8/13	
	Western Red Skin/Yellow Flesh (3)	5/8/13	
	Texas Advanced Red Skin/Yellow Flesh Selections (9)	5/8/13	
	Western White Skin/Yellow Flesh (4)	5/8/13	
	Texas Advanced White Skin/Yellow Flesh Selections (13)	5/8/13	
	Texas Advanced Small Potato Selections (18)	5/8/13	
	Texas Advanced Fingerling Selections (25)	5/8/13	
	Texas Advanced Purple Skin/Purple Flesh Selections (6)	5/8/13	
	Zebra Chip Increase (10)	5/8/13	
	Western and Southwestern Chip (12)	5/8/13	
	Commercial Variety (8)	5/8/13	
	Texas Advanced Chip Selections (30)	5/8/13	
	Western Russets (20)	5/8/13	
	Texas Advanced Russet Selections (50)	5/8/13	
		<b>Total Entries            870</b>	

## Seedlings for Selection in Texas - 2013

### Seedlings planted at Springlake

Source	Families	Total Planted
Oregon	183	18,048
Total	183	18,048

### Seedlings planted at Dalhart

Source	Families	Total Planted
Colorado	64	20,380
Texas	68	11,489
Aberdeen	58	7,003
North Dakota	67	6,300
Oregon	23	2,192
Total	280	47,364

**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

**Ranger Russet (001)**-Long Russet. Parentage (Butte x A6595-3). Cross was made and selected in Aberdeen. Released in 1991 by USDA-ARS, and the Colorado, Aberdeen, Oregon and Washington Agricultural Experiment Stations. Medium-late maturity. Large vine size. White flower color.

Uses: dual

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

**Shepody (004)**-Long White. Parentage (Bake King x F58050). Selected in New Brunswick, Canada and released by Agriculture Canada, - New Brunswick in 1980. Medium-late maturity. Medium vine size. Light violet flower color with white tips.

Uses: Early 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

**Russet Norkotah 278 (006) (Protected - PVP)**-Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Russet Norkotah 278 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah. Early maturity. Medium-large vine size. White flower color.

Uses: fresh

Strengths: good yield, uniform tuber shape, excellent appearance, resistance to hollow heart, some increased resistance to early dying and environmental stresses, lower N requirement, more vigorous, and higher yielding than Russet Norkotah, heavy net, BOT

Weaknesses: five to ten days later than Russet Norkotah. Can produce a higher percentage of misshapen tubers than Russet Norkotah (especially under heat stress, Rhizoctonia)

Cutting Notes: nice

**A02062-ITE (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

**A02138-2(008)**-Oblong Light Russet. Parentage (A96563-8 x Premier Russet). Cross was made and selected in Aberdeen. Medium-early maturity. Medium vine size. White flower color.

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

**A02507-2LB (010)**-Oblong-long Russet. Parentage (EGA09702-2 x GemStar Russet). Cross was made and selected in Aberdeen. Med-Late maturity. Medium vine size. White flower color.

Uses: dual

Strengths:

Weaknesses:

Cutting Notes: very nice

**A03158-2TE (011)**-Long Russet. Parentage (A98292-2 x A98104-4). Cross was made and selected in Aberdeen. Medium-late maturity. Medium vine size. White flower color.

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

**A001114-4(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

**A002060-3(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

**CO05024-11RU (019)**-Oblong Russet. Parentage (Rio Grande Russet x Sage Russet). Cross was made and selected in Colorado. Medium maturity. Large vine size. White flower color.

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

**CO05152-5RU (025)**-Oblong Russet. Parentage (AC99375-1RU x Blazer Russet). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

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:

**AOTX95265-1Ru (034)**-Long Russet. Parentage (A89216-9 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Early maturity. Medium vine size. White flower color.

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:

**ATX84378-6Ru (039)**-Oblong-Long Russet. Parentage (A79141-9 x ND329-1). Cross was made in Aberdeen, and selected in Texas. Medium-early maturity. Medium vine size. White flower color.

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:

**TXNS410 (049)**-Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Russet Norkotah 410 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah. Early maturity. Early maturity. Medium-large vine size. White flower color.

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

### **White Skin Yellow Flesh**

**Yukon Gold (050)**-Oblong White/Yellow. Parentage (W5279-4 x Norgleam). Cross was made and selected in Ontario, Canada. Released in 1980 by Agriculture Canada, The University of Guelph, and The Ontario Ministry of Agriculture & Food, Guelph, Ontario. Medium-early maturity. Medium-large vine size. Violet flower color.

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

**A02267-1Y (051)**-Round Yellow/Yellow. Parentage (Inca Gold x ND5256-7R). Cross was made and selected in Aberdeen. Med-late maturity. Med-large vine size. Med Red-purple flower color.

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

**CO05037-3W/Y (053)**-Round White. Parentage (AC99330-1P/Y x CO97227-2P/PW). Early maturity. Med-Large vine size. Light Purple flower color.

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



**COTX07382-2W/Y (058)**-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: 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

**CO02321-4W (061)**-Oblong White. Parentage (NY115W x BC0894-2W). Cross was made and selected in Colorado. Medium maturity. Medium-large vine size. Purple flower color.

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

**Atlantic (066)**-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: nice large tubers

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

**AC03452-2W (067)**-Round White. Parentage (A98423-1C x COA96141-2C). Cross was made in Aberdeen and selected in Colorado. Medium maturity. Medium-large vine size. White flower color.

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

**AC05153-1W (068)**-Round White. Parentage (A91814-5 x Chipeta). Cross was made in Aberdeen and selected in Colorado. Very early maturity. Medium-small vine size. White flower color.

Uses: fresh

Strengths:

Weaknesses:

Cutting Notes: pressure bruise

Chip Notes: Chip Color Rating=3, Stem-end Discoloration +, % Zebra Chip: 3

**CO02024-9W (069)**-Round White. Parentage (A91790-13W x CO95051-7W). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White flower color.

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

**CO02033-1W (070)**-Oblong White. Parentage (A91790-13W x S440). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White flower color.

Uses: chip

Strengths:

Weaknesses: too oblong, poor shape, flat, drop+

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

**CO03243-3W (072)**-Round White. Parentage (BC0894-2W x A91790-13). Cross was made and selected in Colorado. Medium maturity. Large vine size. Light purple flower color.

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

**CO05061-6W (073)**-Round White. Parentage (ATDC9801-3P x BC0894-2W). Cross was made and selected in Colorado. Early maturity. Medium-small vine size. Blue-purple flower color

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/Y (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

**CO05211-4R (005)**-Round Red. Parentage (CO98012-5R x CO00278-4R). Cross was made and selected in Colorado. Early maturity. Medium vine size. Red-Purple flower color.

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

**COTX02293-4R (008)**-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: 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**

**AC05175-3P/Y (015)**-Oval Purple. Parentage (A99331-2R/Y x COA99261-1RY). Cross was made in Aberdeen and selected in Colorado. Very early maturity. Dark purple flower color. Small vine size.

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

**ATTX961014-1BR/Y (017)**-Oblong Red/Yellow. Parentage (A90601-2RDY X Mazama). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Selected for lower incidence of anthocyanin streaking. Early maturity. Medium vine size. Purple flower color.

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

**CO05037-2R/Y (023)**-Oblong Red. Parentage (AC99330-1P/Y x CO97227-2P/PW). Cross was made and selected in Colorado. Medium maturity. Medium vine size. Red-Purple flower color.

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

**CO05062-2P/P (026)**-Round Purple. Parentage (ATDC9801-3P x CO97227-2P/PW). Cross was made and selected in Colorado. Medium maturity. Medium vine size. Blue flower color.

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

**ATX05175-1R/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

**ATX05186-3W/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

**ATX06246-1R (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

Chip Notes: Stem-end Discoloration++, % Zebra Chip: 0

**ATX98444-16R/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

**ATX05186-2R (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 finish, 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: nice skin, light flesh

Chip 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: nice skin, light flesh

Chip 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 resend to CA

Weaknesses: deep eyes lenticels++, drop, poor internals

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=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





<http://potato.tamu.edu>