

2011 Annual Potato Field Day Texas Potato Variety Development Program



Wednesday July 20, 2011

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

Cooperator: Springlake Potato Sales, Inc



The 2011 Field Day is dedicated to Frank Barrett who passed away December 31, 2010. Frank was a longtime grower/cooperator with the Texas Potato Breeding and Variety Development Program.

Frank was born Oct. 29, 1922, in Wendell, Idaho, to Fred and May Roberts Barrett. He grew up in Wendell, working on his father's potato farm and graduating from high school in 1940.

After the 1940 potato harvest, he moved with his parents, four brothers and three sisters to Hereford to help establish the family's potato growing and shipping business in the Texas Panhandle.

Frank served in many leadership capacities, including Student Body President at what is now West Texas A&M University and later as member of its Board of Regents.

He remained active in the potato business until his last days, with 2010 constituting the family's 101st consecutive year to produce a potato crop. In 2004, he was named to the Texas Fruit and Vegetable Growers Hall of Fame. He will be missed.

2011 Field Day Handbook

Texas Potato Variety Development Program

Creighton Miller, Jeff Koym, and Douglas Scheuring

Department of Horticultural Sciences



Texas A&M University

July 20, 2011

Hosted by Springlake Potato Sales, Inc.

Bruce Barrett

Funds Received to Support
The Texas Potato Variety Development Program
July 1, 2010- June 30, 2011

USDA/NIFA (Special Research Grants Program, Potato Research)	\$45,800
Royalty returned to program	\$63,000
Zebra Chip (State Initiative)	\$31,500
Zebra Chip (SCRI)	\$47,163
	\$187,463

Expected but not received:

USDA/NIFA (Special Research Grants Program, Potato Research)	\$60,000
Zebra Chip (State Initiative)	\$31,500
Zebra Chip (SCRI)	\$47,163
Royalty (Estimated)	\$60,000
	\$198,663

In-kind support:

CSS Farms (Milt Carter, Grant Monie, Jerry Henderson, John Wallace and Randy Spevak)	\$34,500
Springlake Potato Sales (Bruce Barrett, Tim Gonzales, 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
 Payal Saha and Anupama Pathi – Graduate Student Worker (Tissue Culture/virus eradication)
 Mike Jensen – Technical Assistant II
 Rafe Wenner, Angel Chappell, and Elizabeth Vielma – Student Workers

2011 Springlake Plot Plan

	Late sdgls	Late sdgls			sdgls		Late sdgls		Late sdgls							RLS
	Late sdgls	Late sdgls			sdgls		Late sdgls		Late sdgls							RLS
	Late sdgls	Late sdgls			sdgls		Late sdgls		Late sdgls							RLS
	Late sdgls	Late sdgls			sdgls		Late sdgls		Late sdgls				French		French	RLS
	Late sdgls	Late sdgls			sdgls		Late sdgls		Late sdgls							RLS
	Late sdgls	Late sdgls			sdgls		Late sdgls		Late sdgls							RLS
	Late sdgls	Late sdgls			sdgls		Late sdgls		Late sdgls							RLS
	Late sdgls	Late sdgls			sdgls											RLS
	Late sdgls	Late sdgls			sdgls				RD/Y						TXRD/Y	RLS
	Late sdgls	Late sdgls			sdgls		TXWH/Y									RLS
	Late sdgls	Late sdgls			sdgls											RLS
	Late sdgls	Late sdgls			sdgls										R-P/R-P	RLS
	Late sdgls	Late sdgls			sdgls											RLS
	Late sdgls	Late sdgls			sdgls					TXRU		TXCH				RLS
	Late sdgls	Late sdgls			sdgls										TXFING	RLS
	Late sdgls	Late sdgls			sdgls											RLS
	Late sdgls	Late sdgls			sdgls		WH/Y									RLS
	Late sdgls	Late sdgls			sdgls				TXRD							RLS
	Late sdgls	Late sdgls			sdgls										TXSM	RLS
	Late sdgls	Late sdgls			sdgls											RLS
	Late sdgls	Late sdgls			sdgls											RLS
	Late sdgls	Late sdgls			sdgls											RLS
	Late sdgls	Late sdgls			sdgls											RLS
	Late sdgls	Late sdgls			sdgls											RLS
	Late sdgls	Late sdgls			sdgls											RLS
	Late sdgls	Late sdgls			sdgls											RLS
	Late sdgls	Late sdgls			sdgls		CHIP		RDW		RU		FDTRU/CH		FDTRD/SPC	RLS
Cage Study	Trap Study	Late sdgls	Comm Fing	Blank	sdgls	Blank	Fill	Blank	Fill	Blank	Fill	Blank	Fill	Blank	Fill	
180-175	174-127	126-115	114-105	104-103	102-63	62-61	60-51	50-49	48-39	38-37	36-27	26-25	24-15	14-13	12-3	2-1

Texas Potato Variety Development Program 2011 Trials

Location	Trial	Planted	
Springlake	Field Day Red/Specialty (56)	3/21/11	
	Texas Advanced Small Potato Selections (9)	3/21/11	
	Texas Advanced Fingerling Selections (5)	3/21/11	
	Texas Advanced Red/Purple Skin Red/Purple Flesh (4)	3/21/11	
	Texas Advanced Red Skin Yellow Flesh Selections (6)	3/21/11	
	Field Day Russets/Chip (85)	3/21/11	
	Texas Advanced Chip Selections (22)	3/21/11	
	Russet (26)	3/23/11	
	Texas Advanced Russet Selections (13)	3/23/11	
	Red White Flesh (17)	3/22/11	
	Texas Advanced Red Selections (6)	3/22/11	
	Red Skin Yellow Flesh (10)	3/22/11	
	Chip (13)	3/22/11	
	White Skin Yellow Flesh (11)	3/22/11	
	Texas Advanced White Skin Yellow Flesh Selections (4)	3/22/11	
	Ron French (15)	3/24/11	
	First Year Seedlings Early (35,001)	3/24/11	
	First Year Seedlings Late (23,459)	5/6/11	
	Dalhart	Zebra Chip Sprout (27)	5/2/11
		Texas Advanced Red Selections (23)	5/2/11
		10 Red Selections (35)	5/2/11
		Texas Advanced Red Skin Yellow Flesh Selections (15)	5/2/11
10 Red Skinned Yellow Flesh (7)		5/2/11	
Texas Advanced Small Potato Selections (12)		5/2/11	
10 Small Potato Selections (10)		5/2/11	
Texas Advanced Fingerling Selections (9)		5/2/11	
10 Fingerling Selection (43)		5/2/11	
Texas Advanced Purple Skin Purple Flesh Selections (3)		5/2/11	
10 Purple Skin Purple Flesh Selection (5)		5/2/11	
Texas Advanced White Skin Yellow Flesh Selections (13)		5/2/11	
10 White Skin Yellow Flesh Selections (25)		5/2/11	
Western and Southwest Chip (16)		5/3/11	
Texas Advanced Chip Selections (22)		5/3/11	
10 Chip Selections (134)		5/3/11	
Texas Advanced Russet Selections (39)		5/3/11	
10 Russet Selection (219)		5/3/11	
Seedlings (40,868)		5/4/11	

Seedlings for Selection in Texas - 2011

Seedlings planted at Springlake

Source	Families	Total Planted
Aberdeen	68	6,362
Oregon	117	7,991
North Dakota	173	20,648
Colorado (Planted May 6)	98	23,459
Total	456	58,460

Seedlings planted at Dalhart

Source	Families	Total Planted
Colorado	70	16,474
Texas	135	24,394
Total	205	40,868

Grand Total – 99,328 seedlings from 661 families (crosses) were planted in 2011.

2011 Field Day Trial in Entry Order

Red and Specialty Selections/ Varieties

Small Potato Selections

ATX05175-1R/Y(001) - Round Red/Yellow. Parentage (A99331-2RY x C0A99261-IRY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: specialty.

Strengths: nice shape

Weaknesses:

Cutting Notes: nice shape, flesh color 2.8/5.0

ATX98444-16R/Y(003) -Oblong Red/Yellow. Parentage (A83360-9R x T48YF). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: specialty.

Strengths: very nice, nice skin finish, nice size and shape BOT

Weaknesses: silver scurf some big tubers

Cutting Notes: nice shape and skin, flesh color 2.5/5.0

ATX02263-1R/Y(005) -Oblong Red/Yellow. Parentage (Inca Gold x A92653-6R). Cross was made in Aberdeen and selected in Texas.

Uses: specialty.

Strengths: slight buff BOT-, BOT

Weaknesses: some pointed, too big, drop?

Cutting Notes: nice oblong shape, flesh color 1.5/5.0

ATX03546-1W/Y(007) -Oblong White/Yellow. Parentage (ATA98472-2Y x A97523-1RY). Cross was made in Aberdeen and selected in Texas.

Uses: specialty.

Strengths: nice skin finish, small potato very yellow flesh

Weaknesses: heat sprouts

Cutting Notes: very small, flesh color 2/5.0

ATX05202-3W/Y(009) -Oblong White/Yellow. Parentage (A00286-3Y x A99433-5Y). Cross was made in Aberdeen and selected in Texas.

Uses: specialty.

Strengths: nice, heavy set, nice flesh, nice skin finish, BOT

Weaknesses:

Cutting Notes: nice shape, flesh color 2/5.0

ATX07305-1Y/Y(011) - Oblong Yellow/Yellow. Parentage (A99433-5Y x Mila). Cross was made in Aberdeen and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: very small, flesh color 1.5/5.0

COTX04050-1P/P(013) -Oblong Purple/Purple. Parentage (CO97215-2P/P x CO97306-2P/P).Cross was made in Colorado and selected in Texas

Uses: specialty.

Strengths: Anthocyanin studies, solid purple flesh, keep BOT++

Weaknesses: med buff skin, white center

Cutting Notes: very dark flesh, smooth, flesh color 5 /5.0

COTX05037-4Y/Y(015) -Oblong Yellow/Yellow. Parentage (AC99330-1P/Y x CO97227-2P/PW). Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: BOT+

Weaknesses: some big tubers, poor shape, processing problems, chain tubers, Rhizoctonia, poor shape, drop++

Cutting Notes: very small, flesh color 2.5/5.0

NDTX059886-1Y/Y(017) -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 nice parent, BOT+

Weaknesses: internal??, some big tubers low yield too large

Cutting Notes: small, uniform, flesh color 2/5.0

Fingerling Selections

Banana(019) -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: heavy set

Weaknesses: greenheads, Rhizoctonia, crooked, rough, second growth, lenticels, curved, poor shape, heat sprouts

Cutting Notes: poor shape, skinny, curved, smooth, light yellow flesh

Purple Peruvian(021) -Long Purple/Purple. Parentage (??).

Uses: specialty

Strengths: purple with white flesh

Weaknesses: deep eyes drop

Cutting Notes: deep eyes, rough, nice flesh, some white in the flesh, deep eyes

CO03094-5RF/RW(023) - Long Red. Parentage (Austrian Crescent x Huckleberry). Cross was made and selected in Colorado. Medium maturity. Medium vine size. Red-purple flower color.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: pointed, skinny, red flesh, ugly

COTX03187-1W (025) -Long White. Parentage (AC89536-5RU x A9304-3). Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: nice flesh, smooth very white flesh

Weaknesses: second growth, can oversize lenticels

Cutting Notes: too large??

PTTX05PG07-1W (027) -Long White. Parentage (POR01PG22-1 x OR00067-7). Cross was made in Prosser, WA, tuberling produced in Texas and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses: Rhizoctonia low yield+,

Cutting Notes: very nice fingerling shape,

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

Red Skin/White Flesh Selections

Dark Red Norland(037) -Oblong Red. Parentage (Redkote 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, russeting silver scurf+, pointed Rhizoctonia

Cutting Notes: nice shape

Red LaSoda(039) -Oblong Red. Parentage (Triumph x Katahdin). Cross was made and selected in Louisiana. Red LaSoda is a clonal selection from LaSoda made by Louisiana. 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 on over-sized tubers, 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: nice, small uniform shape

ATTX01178-1R(041) -Oblong Red. Parentage (ND5084-3R x Winema). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Early maturity. Medium vine size. Lavender flower color.

Uses: fresh.

Strengths: nice shape

Weaknesses: Rhizoctonia+, Red LaSoda like, deep eyes, drop

Cutting Notes: very nice shape and size

ATTX98453-6R(043) - Round Red. Parentage (A93490-1R x A91846-5R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Medium maturity. Medium vine size . Lavender flower color.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: nice color and shape.

CO00291-5R(045) -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:

Weaknesses:

Cutting Notes: poor shape and skin, ugly.

CO99076-6R(047)Round Red. Parentage (AC91848-1 x Rio Colorado).Cross was made and selected in Colorado. Early maturity. Medium vine size. Red-purple flower color.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: uniform, nice shape

CO99256-2R(049) -Oblong Red. Parentage (Rio Colorado x Colorado Rose).Cross was made and selected in Colorado. Medium maturity. Large vine size. Purple flower color.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: very small, poor shape.

COTX02172-1R(051) -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: anthocyanin streaking in flesh.

NDTX5438-11R(053) -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: yield, heavy set, nice skin finish, nice flesh, BOT+

Weaknesses: skin finish?, low yield, silver scurf, some pointed, mixed shape, silver scurf, Rhizoctonia++

Cutting Notes: very nice

AOTX91861-4R(055) -Oblong Red. Parentage (Red LaSoda x ND2224-5R). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh.

Strengths: yield+ Red LaSoda like, yield+, advance to SW

Weaknesses: deep eyes, Rhizoctonia++, drop?

Cutting Notes: nice, large tubers, nice flesh

ATX88481-1P/W(057) –Oblong Purple. Parentage (A83302-1 x Bison). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: nice skin, poor shape, feathering, drop

ATX98453-11BR(059) -Round Red. Parentage (A93490-1R x A91846-5R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh.

Strengths: Nice shape & color, nice internals, nice skin finish, BOT+

Weaknesses:

Cutting Notes:

BTX2332-1R(061) -Round Red. Parentage (B1523-4 x Super Red Norland). Cross was made in Beltsville, MD. and selected in Texas. Medium maturity. Large vine size.

Uses: fresh.

Strengths: yield+, heavy set BOT+++

Weaknesses: Rhizoctonia+, oversize poor internals

Cutting Notes: anthocyanin streaking in flesh, nice shape and color, roads map

COTX94216-1R(063) -Round Red. Parentage (Purple Peruvian x Chipeta). Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths: nice shape, yield+, heavy set

Weaknesses: zipper eyes, road map, poor skin finish, silver scurf, Rhizoctonia+, second growth, deep eyes, drop++

Cutting Notes: uniform shape, nice

COTX94218-1R(065) -Round Red. Parentage (Red Ruby x Red Gold). Cross was made in Colorado and selected in Texas. Medium maturity. Large vine size.

Uses: fresh.

Strengths: yield, white flesh, nice shape

Weaknesses: late, Rhizoctonia sticky stolon, drop+++

Cutting Notes: small, uniform

NDTX4784-7R(067) -Round Red. Parentage (ND3574-5R x ND2050-1R). Cross was made in North Dakota and selected in Texas.

Uses: fresh.

Strengths: nice shape, keep BOT-

Weaknesses: low yield Rhizoctonia+++ , road map, poor skin finish, drop

Cutting Notes: nice shape, nice flesh, and color

NDTX5003-2R (069) -Round Red. Parentage (ND3504-3R x ND2050-1R). Cross was made in North Dakota and selected in Texas.

Uses: fresh.

Strengths: nice, nice flesh, BOT

Weaknesses: Rhizoctonia+

Cutting Notes: pressure bruise nice shape

ATX03516-2R(071) -Oblong Red. Parentage (A961014-12RY x NDTX4271-5R). Cross was made in Aberdeen and selected in Texas.

Uses: fresh.

Strengths: nice color and shape, nice skin finish, smooth, keep

Weaknesses: sticky stem, small

Cutting Notes: very large tubers, nice flesh and skin, shape very nice, BOT

Rio Rojo(073) -(Protected – PVP). - 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: BOT

Weaknesses: can oversize, light set

Cutting Notes: small

NDTX731-1R (075) -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: very nice, nice shape and color, yield+, BOT

Weaknesses: deep eyes, poor skin finish, drop+

Cutting Notes: small

NDTX4271-5R(077) -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: nice flesh, very nice, keep, BOT-, BOT+

Weaknesses: skin finish?

Cutting Notes: small

NDTX050070-1R(079) -Oblong Red. Parentage (ND 8375b-6R x ND 8347CB-12R). Cross was made in North Dakota and selected in Texas.

Uses: fresh.

Strengths: heavy set, B size, small

Weaknesses:

Cutting Notes: very small, uniform

Red Yellow Flesh Selections

A99331-2RY (081) –Oblong Red/Yellow. Parentage (Satina x PA99P35-1). Cross was made in Prosser, Washington, tuberling produced in Oregon, and selected in Oregon. Medium-early maturity. Medium-vine size. Red purple flower

Uses: specialty.

Strengths: nice+

Weaknesses: rough silver scurf, poor skin finish

Cutting Notes: feathering, white eyes, flesh color 2/5.0

ATTX98510-1R/Y (083) - 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

Weaknesses: oversized, some anthocyanin streaking

Cutting Notes: BOT, very nice flesh, hollow heart, flesh color 3.5/5.0

CO01399-10P/Y (085) -Round Purple/Yellow. Parentage (VC1015-5P/Y x Colorado Rose). Cross was made and selected in Colorado. Medium maturity. Large vine size. Purple flower color.

Uses: specialty.

Strengths:

Weaknesses: poor internals, late++ poor skin finish, drop

Cutting Notes: nice shape and skin, flesh color 2.5/5.0.

COTX01403-4R/Y (087) - Oblong Red/Yellow. Parentage (VC1015-7R/Y x Winema). Cross was made in Colorado and selected in Texas. Early maturity. Small vine size. Lavender flower color

Uses: specialty.

Strengths: nice color, nice, dark red skin, dark yellow flesh, BOT

Weaknesses:

Cutting Notes: nice shape and skin, flesh color 2.5/5.0

ATX88654-2P/Y (089) - Oblong Purple/Yellow. Parentage (PI34320 x Gurney's Purple). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Early maturity. Small vine size. Purple flower color.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: good skin set, flesh color 2.5/5.0

ATX01180-1R/Y (091) - 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:

Weaknesses:

Cutting Notes: nice, anthocyanin streaking in flesh, flesh color 2.5/5.0.

CO04021-2R/Y (093) - 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:

Weaknesses:

Cutting Notes: flesh color 2.8/5.0

ATX961014-1R/Y (095) - 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: nice yield smooth, BOT-, BOT+++

Weaknesses: smaller tubers Rhizoctonia+, silver scurf, roadmap, heat sprouts

Cutting Notes: flesh color 2.5/5.0

ATX961014-1BR/Y(097) - 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: keep, BOT,

Weaknesses: ZC?, vascular discoloration

Cutting Notes: very light yellow flesh, flesh color 2/5.0

BTX2103-1R/Y(099) - Oblong Red/Yellow. Parentage (BO811-13 x ARS-W82-21285-1). Cross was made in Beltsville, Maryland and selected in Texas.

Uses: specialty.

Strengths: very heavy set, B's uniform, nice yield, BOT

Weaknesses: poor shape and skin, drop?

Cutting Notes: nice skin and shape, flesh color 3/5.0

ATX03515-1R/Y(101) -Oblong Red/Yellow. Parentage (A961014-12RY x NDC5281-2). Cross was made in Aberdeen and selected in Texas.

Uses: fresh.

Strengths: nice flesh smooth, BOT

Weaknesses: low yield+, light skin, drop+

Cutting Notes: small, very light flesh, flesh color 1.5/5.0

ATX05175-3R/Y(103) -Oblong Red. Parentage (A99331-2RY x VC1075-1R). Cross was made in Aberdeen and selected in Texas.

Uses: fresh.

Strengths: very yellow flesh, small potato??

Weaknesses: poor shape+, drop

Cutting Notes: small, uniform, flesh color 2/5.0

COTX04188-3R/Y(105) -Oblong Red/Yellow. Parentage (ATC98515-1R/Y x ATC98444-1R/Y). Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses: mix white and yellow flesh, low yield+ silver scurf, drop++, sticky stolon

Cutting Notes: small, uniform, flesh color 2.5/5.0

COTX04193-2R/Y(107) -Oblong Red/Yellow. Parentage (ATC98515-1R/Y x ND3574-5R). Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: nice color, nice, dark red skin, dark yellow flesh, BOT

Weaknesses:

Cutting Notes: small, smooth, flesh color 2/5.0

COTX04267-1R/Y(109) -Oblong Red/Yellow. Parentage (CO98012-5R x CO97232-2R/Y). Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: small, light skin, very yellow, nice yellow, keep, BOT

Weaknesses: drop?

Cutting Notes: small, flesh color 2/5.0

NDTX050184-1R/Y(111) -Oblong Red/Yellow. Parentage (ND 028577-6RY x ND 8555-8R). Cross was made in North Dakota and selected in Texas.

Uses: fresh.

Strengths: yield nice, small, heavy set, small potato, BOT

Weaknesses:

Cutting Notes: small, very light flesh color 1.5/5.0

Russet, White Yellow, 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 purpose.

Strengths: dual purpose, medium to high specific gravity, good fry color from 45o storage, resistance to internal defects including hollow heart, brown center, net necrosis and sugar ends, high yield of large tubers, resistance to early dying.

Weaknesses: susceptibility to scab, tendency for deep eyes, susceptibility to stress induced malformities, mediocre performance in Texas, feathering sticky stolon drop

Cutting Notes:

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:

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 Uses especially PVY, and late blight, and very susceptible to Verticillium wilt and early blight Rhizoctonia, low yield.

Cutting Notes: nice shape, flesh, and color

A98345-1(007) -Long Russet. Parentage (Ranger Russet x Premier). Cross was made and selected in Aberdeen. Medium maturity. Medium vine size. White flower color.

Uses: dual.

Strengths: blocky

Weaknesses: heat sprouts+, drop+

Cutting Notes: blocky, rough, small, anthocyanin streaking in flesh

A00324-1(009) - Long Light Russet. Parentage (Ranger Russet x Premier Russet). Cross was made and selected in Aberdeen. Medium early maturity. Medium large vine size. Red purple flower color

Uses: dual.

Strengths:

Weaknesses:

Cutting Notes: rot, small, skinny

A01010-1(011) - 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:

Weaknesses:

Cutting Notes: poor shape, growth cracks, knobs, rough.

A01025-4(013) - Long Medium Russet. Parentage (A96095-3 x Premier Russet). Cross was made and selected in Aberdeen. Medium maturity. Medium large vine size. White flower color

Uses: dual.

Strengths:

Weaknesses:

Cutting Notes: rough, anthocyanin streaking in flesh

A02060-3TE(015) - Long Light Russet. Parentage (A97201-4 x Premier Russet). Cross was made and selected in Aberdeen. Medium late maturity. Medium vine size. White flower color

Uses: dual.

Strengths:

Weaknesses:

Cutting Notes: hollow heart, pointed, anthocyanin streaking in flesh

AC99375-IRU(017) -Oblong Russet. Parentage (AWN86514-2 x A89384-10). Cross was made in Aberdeen, and selected in Colorado. Medium maturity. Large vine. White flower color.

Uses: Dual.

Strengths: blocky++, very white flesh

Weaknesses: small, Rhizoctonia, heat sprouts, poor shape, drop++,

Cutting Notes: anthocyanin streaking in flesh.

AOTX96265-2Ru(019) -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: long nice shape, advance to WR, BOT-, BOT+

Weaknesses: large tubers Rhizoctonia, hollow heart drop

Cutting Notes: blocky, nice shape.

CO99053-3RU(021) -Long Russet. Parentage (AC91014-2 x Silverton Russet). Cross was made and selected in Colorado. Late maturity. Large vine size. White flower color

Uses: dual.

Strengths: repeat, BOT-

Weaknesses: Rhizoctonia, too long, skinny, rot, drop

Cutting Notes:

CO99053-4RU(023) -Long Russet. Parentage (AC91014-2 x Silverton Russet). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

Uses: fresh.

Strengths:

Weaknesses: Rhizoctonia, pointed, skinny, light skin

Cutting Notes:

CO99100-IRU(025) -Oblong Russet. Parentage (AC93047-1 x Silverton Russet). Cross was made and selected in Colorado. Early maturity. Small-medium vine size. White flower color.

Uses: dual.

Strengths: nice flesh and shape, smooth, BOT-

Weaknesses: low yield

Cutting Notes:

AC00395-2RU(027) - 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: fresh.

Strengths:

Weaknesses:

Cutting Notes:

AOTX96075-1RU(029) -Oblong Russet. Parentage (A84118-3 x A89384-10). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium maturity. Medium large vine size. White flower color..

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes:

CO03187-1RU(031) -Long White. Parentage (Rio Grande Russet x A9304-3). Cross was made and selected in Colorado. Very Early-early maturity. Medium vine size. Light purple flower color.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes:

CO03202-1RU(033) -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: fresh.

Strengths:

Weaknesses:

Cutting Notes:

CO03276-4RU(035) -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: fresh.

Strengths:

Weaknesses:

Cutting Notes:

CO03276-5RU(037) -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:

Cutting Notes:

Stampede Russet(039) -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: blocky, light net smooth, nice shape and skin

Weaknesses:

Cutting Notes: large tubers

AOTX96216-2RU(041) -Long Russet. Parentage (A89216-9 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium-early maturity. Large vine size.

Uses: fresh.

Strengths: nice shape+, large, large tubers very nice interior, ATX84378-6Ru like, parent BOT-

Weaknesses: rough Rhizoctonia

Cutting Notes: very large tubers, nice shape.

AOTX98152-3RU(043) -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+, keep, BOT++

Weaknesses: rot+ Rhizoctonia+, large tubers rough, poor internals, drop++

Cutting Notes: blocky, nice shape.

ATX91137-1RU(045) -Oblong Russet. Parentage (A81473-2 x A8343-12) Cross was made in Aberdeen, and selected in Texas.

Uses: fresh.

Strengths: nice shape, send to ROB, smooth, blocky, high yield, BOT+

Weaknesses: Rhizoctonia

Cutting Notes: nice shape.

ATX9202-3RU(047) -Oblong Russet. Parentage (A8343-12 x A8495-1) Cross was made in Aberdeen, and selected in Texas.

Uses: fresh.

Strengths: blocky high yield, nice interior, nice flesh, send to ROB, BOT

Weaknesses: Rhizoctonia, poor shape, rough, deep eyes, drop+

Cutting Notes:

ATX9332-12RU(049) -Oblong Russet. Parentage (A8850-1 x A88288-1). Cross was made in Aberdeen and selected in Texas.

Uses: fresh

Strengths: nice interior

Weaknesses: poor skin finish, stem end darkening, skin not very nice, drop+++

Cutting Notes:

TXA549-1RU(051) -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: yield+, blocky keep, BOT+++,

Weaknesses: Rhizoctonia, large tubers

Cutting Notes: nice shape, blocky BOT.

AOTX02060-1Ru(053) -Oblong Russet. Parentage (A97201-4 x A93157-6LS). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh.

Strengths: blocky nice+, nice flesh, keep+, BOT

Weaknesses: deep eyes light set, growth cracks drop+

Cutting Notes:

AOTX95265-1Ru(055) -Long Russet. Parentage (A89216-9 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Early maturity. Large vine size.

Uses: fresh.

Strengths: long, nice internals, Norkotah like, nice shape, Advance to WR, keep

Weaknesses: rot, some pointed

Cutting Notes: small.

AOTX95265-3Ru(057) -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: long, good shape, nice, BOT-

Weaknesses:

Cutting Notes: small.

AOTX96084-1Ru(059) -Oblong Russet. Parentage (A8792-1 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh.

Strengths: nice, long

Weaknesses: some pointed, oversize, rot, drop

Cutting Notes: sprouts+++

AOTX98202-1Ru(061) -Oblong Russet. Parentage (A9201-6 x A9014-2). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh.

Strengths: BOT+

Weaknesses: poor shape, pointed, drop?

Cutting Notes: blocky, nice shape.

ATX03475-10Ru(063) - Oblong Light Russet. Parentage (NDTX4930-5W x NYII2). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh.

Strengths: keep

Weaknesses:

Cutting Notes: blocky, nice shape, light russet

ATX03475-7Ru(065) - Oblong White. Parentage (NDTX4930-5W x NYII2). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh.

Strengths: keep

Weaknesses:

Cutting Notes:

ATX84378-6Ru(067) -Oblong-Long Russet. Parentage (A79141-9 x ND329-1). Cross was made in Aberdeen, and selected in Texas.

Uses: fresh.

Strengths: blocky, large tubers, nice white flesh, BOT

Weaknesses: light set growth cracks, rough

Cutting Notes: blocky.

ATX99013-1Ru(069) -Long Russet. Parentage (A8893-1 x A91186-2). Cross was made in Aberdeen and selected in Texas.

Uses: fresh.

Strengths: nice flesh, Advance to SWR, keep+

Weaknesses: curved, Rhizoctonia skinny drop+

Cutting Notes: small.

ATX99194-3Ru(071) -Oblong Russet. Parentage (A94137-1 x GemStar Russet). Cross was made in Aberdeen and selected in Texas.

Uses: fresh.

Strengths: blocky+

Weaknesses: poor skin finish, drop++, drop?

Cutting Notes: sprouts++.

COTX05095-2Ru/Y(073) -Long Russet. Parentage (CO99045-1W/Y x AO96164-1). Cross was made in Aberdeen and selected in Texas.

Uses: fresh.

Strengths: keep

Weaknesses:

Cutting Notes: yellow flesh color 2.5/5.0

TXNS410(075) -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: nice shape

Weaknesses: yield-

Cutting Notes: small

Chip Selections

Atlantic(077) -Round White. Parentage (Wauseon x B5141-6). Cross was-made in Beltsville, Maryland, and selected in Maine. Released in 1976 by USDA-ARS, Florida, Virginia, New Jersey and Maine Agricultural Experiment Stations. Medium maturity. Medium vine size. Pale lavender flower color. Uses: Chip.

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

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

Cutting Notes: large tubers.

Chipeta(079) -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 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: very nice

A01143-3C(081) - Round Scaly-Buff. 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:

Cutting Notes: feathering, nice shape

AC01151-5W(083) - Round 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:

Weaknesses:

Cutting Notes: nice shape, poor internals, brown ring in vascular ring.

CO00188-4W(085) - Round White. Parentage (A90490-1W x BC0894-2W). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes: large tubers, nice shape.

CO00197-3W(087) -Oblong White. Parentage (A91790-13W x NDTX4930-5W). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

Uses: chip.

Strengths: nice flesh

Weaknesses: shape?, Rhizoctonia++, rough, pointed, drop

Cutting Notes: nice shape.

CO00270-7W(089) -Round White. Parentage (BC0894-2W x A91790-13W). Cross was made and selected in Colorado. Early-medium maturity. Medium vine size. Purple flower color.

Uses: chip.

Strengths:

Weaknesses: Rhizoctonia

Cutting Notes: nice shape

CO02024-9W(091) -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:

Weaknesses:

Cutting Notes: nice shape.

CO02033-1W(093) -Round 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:

Cutting Notes: nice shape.

CO02321-4W(095) -Round White. Parentage (NY115W x BC0894-2W). Cross was made and selected in Colorado. Medium maturity. Medium large vine size. Light purple flower color.

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes: nice shape.

AC03433-1W(097) - Round White. Parentage (A94322-8C x COA96141-4). Cross was made in Aberdeen, and selected in Colorado. Late maturity. Large vine. Light purple flower color.

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes: nice shape.

CO03243-3W(099) -Oblong White. Parentage (BC0894-2W x A91790-13W). Cross was made and selected in Colorado. Early-medium maturity. Medium vine size. Purple flower color.

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes: nice shape, poor internals, browning in vascular ring.

Snowden(101) -Oblong White. Parentage (B5141-6 x Wischip) Cross was made at the University of Wisconsin. Late maturity. White flower color

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes: small

(Waneta) NY138(103) -Oblong White. Parentage (?). Cross made and selected at Cornell University.

Uses: chip.

Strengths: smooth

Weaknesses:

Cutting Notes: no sprouts.

AOTX95295-1W(105) -Round White. Parentage (A89804-7 x Ranger Russet). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: chip.

Strengths: nice

Weaknesses:

Cutting Notes: shriveled, long sprouts.

AOTX95309-3W(107) -Round White. Parentage (A9055-8LS x A89163-3LS). Cross was made in Aberdeen, produced in Oregon, and selected in Texas. Late maturity. Large vine size.

Uses: chip.

Strengths: smooth

Weaknesses: rough, flat, drop

Cutting Notes:

ATTX03446-4W(109) -Oblong White. Parentage (A96920-17 x MSI152A). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: chip.

Strengths: keep

Weaknesses:

Cutting Notes: shriveled, sprouts++.

ATTX03474-1W(111) -Round White. Parentage (NDTX4930-5W x C0A96141-4). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: chip.

Strengths: keep

Weaknesses:

Cutting Notes: small.

ATTX03474-2W(113) - Round White. Parentage (NDTX4930-5W x C0A96141-4). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: chip.

Strengths: keep

Weaknesses:

Cutting Notes:

ATTX03474-3W(115) -Oblong White. Parentage (NDTX4930-5W x C0A96141-4). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: chip.

Strengths: keep

Weaknesses:

Cutting Notes: very nice.

ATTX03475-2W(117) - Oblong White. Parentage (NDTX4930-5W x NYII2). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: chip.

Strengths: keep

Weaknesses:

Cutting Notes: large tubers.

ATTX03475-6W(119) - Oblong White. Parentage (NDTX4930-5W x NYII2). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: chip.

Strengths: keep

Weaknesses:

Cutting Notes: buff skin.

ATTX03476-2W(121) -Oblong White. Parentage (NDTX493O-5W x Chipeta). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh.

Strengths: keep

Weaknesses:

Cutting Notes: rough, large

COTX02377-1W (123) -Round White-Buff. Parentage (Dakota Pearl x Chipeta). Cross was made in Colorado and selected in Texas.

Uses: chip.

Strengths:

Weaknesses: growth cracks, drop

Cutting Notes: small.

COTX03270-1W(125) -Oblong White-Buff. Parentage (CO95007-1RU x AC96052-1RU). Cross was made in Colorado and selected in Texas.

Uses: chip.

Strengths:

Weaknesses: greenheads, some pear shape, poor internals, 10%PRV, pointed, small drop+++

Cutting Notes: small.

COTX03303-1W(127) -Oblong White. Parentage (CO96083-7RU x Silverton Russet). Cross was made in Aberdeen and selected in Texas.

Uses: fresh.

Strengths: keep

Weaknesses:

Cutting Notes: buff, small, poor internals, brownspot.

FL1833(129) -Round White. Parentage (?). Cross was made and selected by FRITO LAY CO.

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes: nice yellow flesh.

FL1867(131) -Round White. Parentage (FL 162 x ATLANTIC). Cross was made and selected by FRITO LAY CO.

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes: small, shriveled, poor internals, brownspot.

FL1922(133) -Round White. Parentage (FL 1207 x AUK). Cross was made and selected by FRITO LAY CO.

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes: small, shriveled.

FL2048(135) -Oblong White. Parentage (?). Cross was made and selected by FRITO LAY CO.

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes: large tubers.

FL2053(137) -Round White. Parentage (??). Cross was made and selected by FRITO LAY CO.

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes: small

NDTX060700C-1W(139) -Round White. Parentage(NDTX 7560C-4 x NDTX 7192-1). Cross was made in North Dakota and selected in Texas

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes: poor internals

TX03196-1W(141) -Round White. Parentage (NDTX4748-7R x Adora). Cross was made and selected in Texas.

Uses: chip.

Strengths: salad?

Weaknesses: small+ drop

Cutting Notes: no sprouts.

White Yellow Flesh Selections

Yukon Gold(143) -Oblong White/Yellow. Parentage (W5279-4 x Norglean). 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: large tubers, flesh color 2/5.0

A99433-5Y(145) - Round Yellow. Parentage (Chipeta x MSG274-3). Cross was made and selected in Aberdeen. Medium late maturity. Medium large vine size. White flower color.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: rough, flesh color 2/5.0

ATC00293 -1W/Y(147) -Oblong White/Yellow. Parentage (Agria x TXA1655-1DY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Colorado. Medium maturity. Large vine size. Purple flower color.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: nice yellow flesh 3.5/5.0

CO04013-1W/Y(149) -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:

Weaknesses:

Cutting Notes: nice shape, flesh color 2.5/5.0

CO04117-5PW/Y(151) -Oblong White. Parentage (Inca Gold x US147-96R/Y). Cross was made and selected in Colorado. Very early-early maturity. Small vine size.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes:

TX1674-1W/Y(153) - Long White/Yellow. Parentage (Russet Nugget x Delta Gold). Cross was made and selected in Texas.

Uses: specialty.

Strengths: nice shape and skin

Weaknesses: light flesh

Cutting Notes: skinny, flesh color 2/5.0

Sierra Gold(155) -(TX1523-1Ru/Y) (Protected – PVP) - Round-oblong Russet/Yellow. Parentage (Krantz x Delta Gold). Cross was made and selected in Texas. Early maturity. Medium vine size.

Uses: specialty.

Strengths: very nice BOT+

Weaknesses: heat sprouts+, Rhizoctonia, light set

Cutting Notes: nice, flesh color 2/5.0

TXYG055(157) -Oblong-White. 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. TXYG055 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

Uses: specialty

Strengths:

Weaknesses:

Cutting Notes: large tubers, flesh color 2/5.0

TXYG057(159) -Oblong-White. 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. TXYG057 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

Uses: specialty

Strengths:

Weaknesses:

Cutting Notes: large tubers, flesh color 2/5.0

TXYG079(161) -Oblong-White. 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. TXYG079 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

Uses: specialty

Strengths:

Weaknesses:

Cutting Notes: large tubers, flesh color 2/5.0

TXYG098(163) -Oblong-White. 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. TXYG098 is a mutant strain selection made in 1997 by Texas from the variety Yukon Gold

Uses: specialty

Strengths:

Weaknesses:

Cutting Notes: nice shape and skin, flesh color 2/5.0

BTX1544-2W/Y(165) - 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:

Weaknesses:

Cutting Notes: flesh color 2/5.0

BTX1749-1W/Y (167) -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: keep for ZC

Weaknesses: deep nose, Rhizoctonia, drop

Cutting Notes: flesh color 2/5.0

NDTX059759-3Pinto/Y (169) -Oblong Pinto/Yellow. Parentage (ATND 99331-2 Pinto x ND 7834-2P). Cross was made in North Dakota and selected in Texas.

Uses: fresh.

Strengths: purple streaking at stem end advance to SW/WR

Weaknesses: flat do not let oversize Rhizoctonia

Cutting Notes: nice red color.

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



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