

2012 Annual Potato Field Day Texas Potato Variety Development Program



Thursday July 19, 2012

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

Cooperator: Springlake Potato Sales, Inc

2012 Field Day Handbook

Texas Potato Variety Development Program

Creighton Miller, Jeff Koym, and Douglas Scheuring

Department of Horticultural Sciences



Texas A&M University

July 19, 2012

Hosted by Springlake Potato Sales, Inc.

Bruce Barrett

Steve Barrett

Tim Gonzalez

**Funds Received to Support
The Texas Potato Variety Development Program
July 1, 2011- June 30, 2012**

USDA/NIFA (Special Research Grants Program, Potato Research)	\$60,000
Zebra Chip (SCRI)	\$47,163
Zebra Chip Grant from Director's Office	\$15,000
USPB Grant for National Chip Breeders Trial – Texas	\$10,000
Royalty returned to program	\$64,020
	\$196,183

Expected July 1, 2012 – June 30, 2013:

USDA/NIFA (Special Research Grants Program, Potato Research)	\$60,000
Zebra Chip (SCRI)	\$47,163
Zebra Chip Grant from Director's Office	\$15,000
USPB Grant for National Chip Breeders Trial – Texas	\$10,000
Royalty (Estimated)	\$60,000
	\$192,163

In-kind support:

CSS Farms (Milt Carter, Grant Monie, Jerry Henderson, John Wallace and Randy Spevak)	\$34,500
Springlake Potato Sales (Bruce Barrett, Steve Barrett, Tim Gonzalez, and Cliff Black)	\$26,500
	\$61,000

The Texas Potato Variety Development Program Team:

Creighton Miller – Project Leader
 Jeff Koym – Research Associate
 Douglas Scheuring – Senior Research Associate
 Sarah Turner and Tulle Alexander - Graduate Students
 Angel Chappell – Student Worker (Tissue Culture/virus eradication)
 Mike Jensen – Technical Assistant II
 Elizabeth Vielma, Tess McIntyre, and Brianna Bentley – Student Workers
 Jim Winder – Tractor Driver

2012 Springlake Plot Plan

RLS										sdlgs		sdlgs		sdlgs		late sdlgs	
RLS										sdlgs		sdlgs		sdlgs		late sdlgs	
RLS										sdlgs		sdlgs		sdlgs		late sdlgs	
RLS			French							sdlgs		sdlgs		sdlgs		late sdlgs	
RLS										sdlgs		sdlgs		sdlgs		late sdlgs	
RLS					P-R/P-R					sdlgs		sdlgs		sdlgs		late sdlgs	
RLS										sdlgs		sdlgs		sdlgs		late sdlgs	
RLS										sdlgs		sdlgs		sdlgs		late sdlgs	
RLS												sdlgs		sdlgs		late sdlgs	
RLS					Swfing				TXWH/Y			sdlgs		sdlgs		late sdlgs	
RLS												sdlgs		sdlgs		late sdlgs	
RLS							WH/Y					sdlgs		sdlgs		late sdlgs	
RLS	small/fing											sdlgs		sdlgs		late sdlgs	
RLS					TXRU									sdlgs		late sdlgs	
RLS														sdlgs		late sdlgs	
RLS														sdlgs		late sdlgs	
RLS														sdlgs		late sdlgs	
RLS					TXRD		TXRD/Y		TXCH				TXCH			late sdlgs	
RLS														sdlgs		late sdlgs	
RLS														sdlgs		late sdlgs	
RLS														sdlgs		late sdlgs	
RLS														sdlgs		late sdlgs	
RLS														sdlgs		late sdlgs	
RLS														sdlgs		late sdlgs	
RLS														sdlgs		late sdlgs	
RLS	FDTRD/SPC	Blank	FDTRU/CH	Blank	RDW	Blank	RD/Y	Blank	CHIP	Blank	RUSS	Blank	TXRU	Blank	sdlgs		late sdlgs
1-2	3-12	13-14	15-24	25-26	27-36	37-38	39-48	49-50	51-60	61-62	63-72	73-74	75-84	85-86	87-100		101-140

Commercial Fingerling

Texas Potato Variety Development Program 2012 Trials

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

Seedlings for Selection in Texas - 2012

Seedlings planted at Springlake

Source	Families	Total Planted
USDA Aberdeen, ID	100	4,726
North Dakota	133	13,594
Oregon (Late Planting)	222	16,324
Total	455	34,644

Seedlings planted at Dalhart

Source	Families	Total Planted
Colorado	82	18,088
Texas	44	5,440
Wisconsin	18	3,247
North Dakota	24	3,590
Oregon	24	2,184
Total	192	32,549

Grand Total – 67,193 seedlings from 647 families (crosses) were planted in 2012.

2012 Field Day Trial in Entry Order

Red and Specialty Selections/ Varieties

Red Skin/White Flesh Selections

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

Uses: fresh.

Strengths: early maturity, dark red tubers, high resistance to PVA and moderate resistance to common scab, PVY and PLRV.

Weaknesses: tuber color will fade if allowed to fully mature, tubers exhibit variable tuber color and size, enlarged lenticels, will heat sprout and hollow heart, susceptible to PVS and early and late blights, rough, deep eyes, faded red skin, rusting silver scurf+, pointed, Rhizoctonia

Cutting Notes: poor skin finish, silver scurf

Red LaSoda(003)- Oblong Red. Parentage (Triumph x Katahdin). Cross was made and selected in Louisiana. Red LaSoda is a clonal selection from LaSoda made by Louisiana State University. Medium maturity. Medium-large vine size. Purple flower color.

Uses: fresh.

Strengths: high yields, wide adaptability nice white flesh.

Weaknesses: deep eyes, light color, occasional hollow heart, occasional growth cracks, susceptible to PVX, PVY, PVS, PVM, PLRV, early and late blights, scab, corky ring spot, bacterial wilt, and Rhizoctonia, tubers can over-size and have poor skin set.

Cutting Notes: deep eyes, flat

ATX98453-6R(005)- Round Red. Parentage (A93490-1R x A91846-5R). Cross was made in Aberdeen, tuberling produced in Texas and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: large, nice, flat

CO00277-2(007)R- Round Red. Parentage (Colorado Rose x CO94065-2R). Cross was made and selected in Colorado. Early Maturity. Medium vine size. Red-purple flower color.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: nice shape, large tubers

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

Uses: specialty.

Strengths: nice color

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

Cutting Notes: nice shape, deep red skin color

OR04131-2(011)- Round Dark Red. Parentage (Mazama x Modoc). Cross was made in and selected in Oregon. Medium maturity. Small-medium vine size. Purple flower color.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: small, poor skin finish, nice shape

ATTX98453-6R(013)- Round Red. Parentage (A93490-1R x A91846-5R). Cross was made in Aberdeen, tuberling produced in Texas and selected in Texas. Late maturity. Medium-large vine size. Lavender flower color.

Uses: fresh.

Strengths: BOT- in basket, shallow eyes, smooth, BOT nice, yield+, smooth, light skin color, BOT+, yield+, poor skin finish, no heat sprouts

Weaknesses: some feathering , bad rep, small, yield-

Cutting Notes: deep eyes, flat, nice skin

CO04159-1R(015)- Round Red. Parentage (AC97521-1R/Y x CO99076-6R). Cross was made and selected in Colorado. Medium-early maturity. Medium vine size. Purple flower color.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: nice shape and skin, hollow heart

COTX02172-1R(017)-Oblong Red. Parentage (CO94065-2R x ND3574-5R). Cross was made in Colorado and selected in Texas. Medium early maturity. Medium vine size. Lavender flower color.

Uses: fresh.

Strengths: uniform heavy set+++ , nice flesh+, small potato

Weaknesses: small

Cutting Notes: nice shape, purple streaks in flesh

COTX02293-4R(019)-Oblong Red. Parentage (CO94065-2R x ND3574-5R). Cross was made in Colorado and selected in Texas. Medium early maturity. Medium vine size. Lavender flower color.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: small, some hollow heart

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

Uses: fresh.

Strengths: nice flesh yield+ little heat sprouts heavy set, keep, BOT-, nice flesh

Weaknesses: feathering, black heart, drop, variable size, long sprouts, heat sprouts++

Cutting Notes:

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

Uses: fresh.

Strengths: nice, keep, BOT in basket nice, yield+

Weaknesses: feathering+++ , drop, early, some pointed, large tubers, sticky stolon

Cutting Notes: large tubers, nice shape, hollow heart

ATTX88481-1P/W(025)- Oblong Purple. Parentage (A83302-1 x Bison). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh.

Strengths: nice flesh

Weaknesses: feathering, rough, small, yield-, low yield, feathering, drop

Cutting Notes:

BTX2332-1R(027)- Round Red. Parentage (B1523-4 x Super Red Norland). Cross was made in Beltsville, MD and selected in Texas. Medium maturity. Large vine size. Lavender flower color

Uses: fresh.

Strengths: nice red skin, no feathering, nice, yield+, b size BOT- in basket, smooth BOT-

Weaknesses: feathering, heat sprouts, silver scurf, light set, low yield

Cutting Notes: nice shape and size, BOT, purple streaks in flesh

COTX94216-1R(029)- Round Red. Parentage (Purple Peruvian x Chipeta). Cross was made in Colorado and selected in Texas. Medium maturity. Medium vine size. Purple flower color.

Uses: fresh.

Strengths good color+:

Weaknesses: poor skin finish++, buff, drop for skin finish, yield-, light set, small, heat sprouts, drop++, silver scurf, poor skin finish

Cutting Notes: large, flat, deep eyes

COTX94218-1R(031)- Round Red. Parentage (Red Ruby x Red Gold). Cross was made in Colorado and selected in Texas. Medium maturity. Large vine size. Lavender flower color.

Uses: fresh.

Strengths: nice flesh, did not oversize, shallow eyes

Weaknesses: late, small, yield-, sticky stolon, feathering+, heat sprouts+

Cutting Notes: nice shape and skin

NDTX4784-7R(033)- Round Red. Parentage (ND3574-5R x ND2050-1R). Cross was made in North Dakota and selected in Texas. Early maturity. Medium vine size. Lavender flower color

Uses: fresh.

Strengths: nice shape, nice appearance, high yield, good color, heavy set BOT+, smooth

Weaknesses: road map, silver scurf, light set, poor skin finish: silver scurf

Cutting Notes: nice shape

ATTX98453-11BR(035)- Round Red. Parentage (A93490-1R X A91846-5R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Early-medium maturity. Small-medium vine size. Lavender flower color.

Uses: fresh.

Strengths: nice+, nice flesh

Weaknesses: small, yield-, feathering+++, low yield, light set, sticky stolon, drop++++

Cutting Notes:

NDTX5003-2R(037)- Round Red. Parentage (ND3504-3R x ND2050-1R). Cross was made in North Dakota and selected in Texas. Very early maturity. Small vine size. Lavender flower color

Uses: fresh.

Strengths: good color nice, yield+, nice shape

Weaknesses: feathering++, ZC?, zipper eye, drop+ light set, drop

Cutting Notes:

NDTX5438-11R(039)- Round Red. Parentage (ND4339-10R x ND4269-9R). Cross was made in North Dakota and selected in Texas. Late maturity. Medium vine size. Lavender flower color.

Uses: fresh.

Strengths: nice shape

Weaknesses: feathering, light set, small

Cutting Notes:

Chieftain(041)- Round Red. Parentage (La1027-18 x La1354). Cross was made and selected at Iowa State University.

Uses: fresh.

Strengths:

Weaknesses: feathering, light set

Cutting Notes: nice shape, light skin, poor internals (brownspot)

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

Uses: fresh.

Strengths: nice shape

Weaknesses: mixed, light set, rot ZC?, bad rep, low yield

Cutting Notes: nice skin and shape

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

Uses: fresh.

Strengths small potato+, very dark skin, BOT in basket, good flesh color, nice flesh:

Weaknesses: no seed, dropped

Cutting Notes: small, uniform, nice color

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

Uses: fresh.

Strengths: BOT in basket

Weaknesses: small

Cutting Notes: small, nice color

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

Uses: fresh.

Strengths: heavy set, small potato

Weaknesses: b size small, heat sprouts, drop+,

Cutting Notes: small, nice color, some rot

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

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: small, nice shape

NDTX4271-5R(053)- Round Red. Parentage (NDTX9-1068-1R x ND2050-1R). Cross was made in North Dakota and selected in Texas. Early to medium maturity. Medium vine size.

Uses: fresh.

Strengths: smooth nice, good color, nice shape

Weaknesses: light set+ growth cracks

Cutting Notes: nice shape and skin, BOT

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

Uses: fresh.

Strengths: nice, nice red skin finish, nice round shape, parent BOT

Weaknesses: yield-, ZC?, low yield, poor skin finish, bad rep

Cutting Notes: nice shape and skin, BOT

Red Yellow Flesh Selections

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

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: very nice, light skin, FL=3.2

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

Uses: specialty.

Strengths: nice, BOT+

Weaknesses: ZC? oversized++, knobs, poor skin finish, poor internals, vascular brownspot, ugly, large tuber, rough, poor shape 1FC =3.0

Cutting Notes: very nice shape, light skin, large tubers, FL=3.2

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

Uses: specialty.

Strengths: nice, nice flesh+, smooth

Weaknesses: small light skin,

Cutting Notes: very large tubers, FL=3.3

AC03534-2R/Y(063)-Oval Red/Yellow. Parentage (ATA98472-2Y x Mazama). Cross was made in Aberdeen, and selected in Colorado. Medium maturity. Medium vine size. Purple flower color.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: very nice, BOT

CO04067-8R/Y(065)- Oval Red. Parentage (CO97232-1R/Y x ATC98444-1R/Y). Cross was made and selected in Colorado. Medium-early maturity. Large vine size. Red-purple flower color.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: nice skin and flesh, FL=3.5

CO04188-4R/Y(067)-Oblong Red. Parentage (ATC98515-1R/Y x ATC98444-1R/Y). Cross was made and selected in Colorado. Medium-early maturity. Large vine size. Red-purple flower color.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: very nice skin and dark yellow flesh, FL=3.7

ATTX01180-1R/Y(069)- Oblong Red/Yellow Parentage (ND5084-3R x A92657-1R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Medium maturity. Small vine size. Lavender flower color.

Uses: specialty.

Strengths: nice flesh FC=3.8 very dark yellow flesh BOT

Weaknesses: feathering, mixed, bad rep, low yield rough shape+

Cutting Notes: purple streaks, nice skin

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

Uses: specialty.

Strengths:

Weaknesses: deep eyes, deep stem attachment

Cutting Notes:

ATTX961014-1BR/Y(073)- Oblong Red/Yellow. Parentage (A90601-2RDY X MAZAMA). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Early maturity. Medium vine size. Purple flower color.

Uses: specialty.

Strengths: smooth, nice, BOT+ FC=2.5

Weaknesses: heat sprouts, small

Cutting Notes: very light yellow flesh, nice shape and skin, FL=2.5

ATTX961014-1R/Y(075)- Oblong Red/Yellow. Parentage (A90601-2RDY X MAZAMA). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Early maturity. Medium vine size. Purple flower color.

Uses: specialty.

Strengths: smooth, very nice, BOT++ FC=2.5

Weaknesses: sliver scurf, small, very light flesh

Cutting Notes: very light yellow flesh, nice shape and skin, red streaks in flesh FL=2.5

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

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: very light flesh, hollow heart, FL=2.0

ATX98510-1R/Y(081)- Oblong Red/Yellow. Parentage (T48YF X A93456-6R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Late maturity. Large vine size. Lavender flower color

Uses: specialty.

Strengths: very heavy set, high yield heavy set, FC=2.7

Weaknesses: deep eyes, 10% ZC?, stem attachment, rough, small, very light flesh+, drop

Cutting Notes: nice shape, light flesh and skin, FL=3.0

BTX2103-1R/Y(083)- Oblong Red/Yellow. Parentage (BO811-13 x ARS-W82-21285-1). Cross was made in Beltsville, Maryland and selected in Texas. Late maturity. Medium vine size. Red-purple flower color

Uses: specialty.

Strengths: nice, small, smooth, keep FC=3.5 BOT

Weaknesses: some pointed, poor shape, rough

Cutting Notes: nice shape, light skin and flesh, FL=2.6

COTX04193-2R/Y(085)- Oblong Red/Yellow. Parentage (ATC98515-1R/Y x ND3574-5R). Cross was made in Colorado and selected in Texas. Medium-early maturity. Small vine size.

Uses: specialty.

Strengths: small potato, nice dark flesh, very heavy set+, b size, BOT small, BOT-, nice flesh++
FC=4.5

Weaknesses: silver scurf

Cutting Notes: small, FL=2.8

COTX04267-1R/Y(087)- Oblong Red/Yellow. Parentage (CO98012-5R x CO97232-2R/Y). Cross was made in Colorado and selected in Texas. Late maturity. Medium vine size.

Uses: specialty.

Strengths: very nice flesh, heavy set FC=4.4

Weaknesses: light skin, growth cracks, rough, ZC?, small, poor shape

Cutting Notes: light skin, feathering, FL=3.0

NDTX050184-1R/Y(089)- Round Red/Yellow. Parentage (ND 028577-6RY x ND 8555-8R). Cross was made in North Dakota and selected in Texas. Late maturity. Large vine size. Lavender flower color.

Uses: specialty.

Strengths: nice skin, heavy set, b size, BOT+ keep, small potato FC=2.5

Weaknesses: very light flesh, feathering

Cutting Notes: nice skin and color, FL=2.5

White Yellow Flesh Selections

Yukon Gold(089)- 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: light yellow flesh, nice shape, FL=2.3

Sierra Gold (Protected - PVP)(091)- Round-oblong Russet/Yellow. Parentage (Krantz x Delta Gold). Cross was made and selected in Texas. Early maturity. Medium vine size.

Uses: specialty.

Strengths: nice, very nice FC=3.0

Weaknesses: low yield, poor shape, knobs, light set, rot

Cutting Notes: nice, light yellow flesh, best of trial, FL=2

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

Uses: fresh.

Strengths: high yield, combines earliness with good resistance to the most common potato diseases and good skin finish.

Weaknesses:

Cutting Notes: nice shape, light flesh

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

Uses: fresh.

Strengths: very good yield, fairly firm texture, free from discoloration, fairly high dry matter content

Weaknesses:

Cutting Notes: nice shape, light flesh

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

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: skinny, FL=2.5

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

Uses: specialty.

Strengths: very nice dark yellow flesh

Weaknesses: heat sprouts very small, grape size, low yield, drop+

Cutting Notes: nice shape, small, FL=3.0

OR04036-5(101)-Blocky Yellow/Yellow. Parentage (POR02PG26-5 x AO93487-2R). Cross was made in and selected in Oregon. Early maturity. Small vine size. Purple flower color.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: nice shape and flesh, smooth, FL=3.0

COTX04015-3AW/Y(103)-Oblong White/Yellow Parentage (ATC98515-1R/Y x ATC98444-1R/Y). Cross was made in Aberdeen and selected in Texas. Medium-late maturity. Large vine size. Lavender flower color

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: nice shape, dark yellow flesh, best of trial, FL=3.5

CO04029-5W/Y(105)-Oval White/Yellow. Parentage (ATC98515-1R/Y x PA99P35-1). Cross was made and selected in Colorado. Medium maturity. Large vine size. Red-purple flower color.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: nice shape and flesh, FL=3.3

CO04099-3W/Y(107)-Oval White/Yellow Parentage (VC1002-3W/Y x ATC98495-1W/Y). Cross was made and selected in Colorado. Early maturity. Medium large vine size. Red-purple flower color.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: nice shape, light flesh, FL=2.5

CO04099-4W/Y(109)-Round White/Yellow. Parentage (VC1002-3W/Y x ATC98495-1W/Y). Cross was made and selected in Colorado. Medium maturity. Large vine size. Red-purple flower color.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: nice shape, dark yellow flesh, FL=3.5

TX1674-1W/Y(111)-Oblong White/Yellow. Parentage (Russet Nugget x Delta Gold). Cross was made and selected in Texas. Medium-late maturity. Medium-large vine size. Lavender flower color.

Uses: specialty.

Strengths: smooth few misshaped, oblong to long FC=2.8

Weaknesses: dumbbell, long rough, drop, heat sprouts CR

Cutting Notes: small tubers, FL=3.0

NDTX081451CB-1Y/Y(113)- Oblong Yellow/Yellow. Parentage (Dakota Diamond x Gala) Cross was made in North Dakota and selected in Texas. Late maturity. Large vine size. White flower color

Uses: specialty.

Strengths: heavy set and yield, nice flesh, few culls, small FC=3.0

Weaknesses: (bad rep, drop?)

Cutting Notes: buff skin, very nice

BTX1749-1W/Y(115)- Oblong White/Yellow. Parentage (K7-6 x BO925-4). Cross was made in Beltsville, Maryland and selected in Texas. Medium maturity. Large vine size.

Uses: specialty.

Strengths: nice flesh

Weaknesses: low yield, slight russet skin FC=3.0

Cutting Notes: small, buff skin, FL=3.0

COTX07382-1W/Y(117)-Oblong White/Yellow. Parentage (Blazer Russet x Innovator) Cross was made in Colorado and selected in Texas. Medium maturity. Medium vine size. White flower color.

Uses: specialty.

Strengths: few culls, FC=2.0

Weaknesses: poor internals, rough, oblong to long, knobs

Cutting Notes: small, nice skin and flesh, FL=3.3

COTX07382-2W/Y(119)-Oblong White/Yellow. Parentage (Blazer Russet x Innovator) Cross was made in Colorado and selected in Texas. Medium maturity. Medium vine size. White flower color.

Uses: specialty.

Strengths: high biomass FC=2.0

Weaknesses: oversized, rough, many culls,

Cutting Notes: raised eyes, rough, ugly, FL=2.0

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

Uses: fresh.

Strengths: smooth+ FC=2.4

Weaknesses: bad rep, drop,

Cutting Notes: nice flesh, raised eyes, FL=3.5

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

Uses: specialty.

Strengths: FC=2.5 BOT

Weaknesses: poor skin appearance, low yield, light set, drop+

Cutting Notes: buff skin, nice flesh, FL=3.0

NDTX059759-3Pinto/Y(125)-Oblong Pinto/Yellow. Parentage (ATND 99331-2 Pinto x ND 7834-2P). Cross was made in North Dakota and selected in Texas.

Uses: specialty.

Strengths: FC=2.0

Weaknesses: poor shape, small tubers, low yield, light set

Cutting Notes: nice dark yellow flesh, red streaks in flesh FL=3.7

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

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes:

Purple-Red Skin/ Purple-Red Flesh Selections

Purple Majesty(029) -Oblong Purple/Purple. Parentage (ND2008-2 x All Blue). Cross made and selected in Colorado. Late maturity. Large vine size. Blue flower color

Uses: specialty.

Strengths: yield+, small, smooth

Weaknesses: road map, alligator skin, silver scurf

Cutting Notes: nice shape, very dark flesh, nice shape

CO03027-2R/R(031) - Round Red. Parentage (Mountain Rose x POR00PG2-16P/P). Cross was made and selected in Colorado. Medium maturity. Medium vine size. White flower color.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: nice red flesh

CO04045-4P/P(033) - Round Purple. Parentage (CO97215-2P/P x CO97216-1P/P). Cross was made and selected in Colorado. Medium early maturity. Small vine size. White flower color.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: very dark flesh

COTX05082-2P/P(035) - Oblong Purple/Purple. Parentage (CO97227-2P/P x WMSG147-3). Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths: keep, very dark flesh

Weaknesses:

Cutting Notes: very dark flesh, keep for flesh

Small Potato Selections

AOTX06598-1R(001)-Oblong Russet. Parentage (A031087-79 x ND4659-5R). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: small potato

ATX05186-3W/Y(003)-Oblong White/Yellow. Parentage (A99433-5Y x VC1075-1R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: small potato

ATX05186-1R(005)-Oblong Red. Parentage (A99433-5Y x VC1075-1R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: small potato

ATX05186-2R(007)-Oblong Red. Parentage (A99433-5Y x VC1075-1R). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: small potato

ATX08153-1Y/Y (011)-Round Yellow/Yellow. Parentage (A00286-3Y x 93-1285-6) Cross was made in Aberdeen and selected in Texas

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: small potato

COTX08046-8P/P(013)- Purple/Purple. Parentage (FF x KP (501) x Magic Molly) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes:

COTX08291-7W(017)-Round White. Parentage (PA99N82-4 x Summit Russet) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: small potato

COTX08376-1R(19) - Red. Parentage (US147-96 x POR01PG22-1) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: small potato

ATX05175-1R/Y(023)-Round Red/Yellow. Parentage (A99331-2RY X COA99261-IRY). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: specialty.

Strengths: heavy set, very dark flesh, TC, nice flesh and skin

Weaknesses: drop, too large, light red skin, variable skin color, too small

Cutting Notes: small potato

ATX98444-16R/Y(025)-Oblong Red/Yellow. Parentage (A83360-9R X T48YF). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas.

Uses: specialty.

Strengths: nice flesh

Weaknesses: light set, poor skin finish, light set, bad rep, poor internal, drop+

Cutting Notes: small potato

ATX05202-3W/Y(027)-Oblong White/Yellow. Parentage (A00286-3Y x A99433-5Y). Cross was made in Aberdeen and selected in Texas.

Uses: specialty.

Strengths: heavy set BOT TC, BOT -

Weaknesses: poor skin finish, large tubers, too many large tubers, 10% ZC?

Cutting Notes: small potato

ATX07305-1Y/Y(031)- Yellow/Yellow. Parentage (A99433-5Y x Mila) Cross was made in Aberdeen and selected in Texas

Uses: specialty.

Strengths: nice flesh, smooth, heavy set, TC, BOT-, BOT+

Weaknesses: little rough, big? some nipples, heat sprouts

Cutting Notes: small potato

COTX04050-1P/P(033)- Oblong Purple/Purple. Parentage (CO97215-2P/P x CO97306-2P/P). Cross was made in Colorado and selected in Texas

Uses: specialty.

Strengths: heavy set TC, very dark flesh, BOT

Weaknesses: variable flesh color, all blue like flesh, silver scurf

Cutting Notes: small potato

NDTX059886-1Y/Y(035)- Oblong Yellow/Yellow. Parentage (ND 7192-1 x ND 8178-1Y). Cross was made in North Dakota and selected in Texas.

Uses: specialty.

Strengths: TC, baby baker, heavy set

Weaknesses: variable skin finish, light flesh, round to oblong, light set, bad rep poor rep, light set, larger tubers

Cutting Notes: small potato

NDTX071258B-1R(037)-Round Red. Parentage (ND 039035B-9R x ND 4659-5R) Cross was made in North Dakota and selected in Texas.

Uses: specialty.

Strengths: heavy set, not many culls, white flesh, BOT-, TC

Weaknesses: deep eyes

Cutting Notes: small potato

Fingerling Selections

Banana(039)- Long White. Parentage (Grown in British Columbia for over 90 years. Research indicates that the variety might have been introduced to early settlers and natives by Russian fur traders. The exact origin, parental lines or breeding techniques used in its development are not known.)

Uses: specialty.

Strengths:

Weaknesses: light set, drop, very small, poor shape, all culls, small curved, pointed

Cutting Notes: skinny, rough, FL=2.5

Purple Peruvian(041)- Long Purple/Purple. Parentage (ND1562-4R x NDTX9-1098-11R).

Uses: specialty.

Strengths: nice flesh color

Weaknesses: all blue like flesh, drop, darker flesh, very small deep eyes, small

Cutting Notes: very dark flesh, deep eyes, FL=5.0

CO03134-4RF/RW (043)-Long Red. Parentage (Laratte x PA97B36-3). Cross was made and selected in Colorado. Medium maturity. Medium-large vine size. Red-purple flower color.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: poor shape, red/white flesh

COTX08045-2R/R(047)-Long Red/Red. Parentage (FF x KP (501) x POR01PG22-1) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: fingerling

COTX08046-2R(049)-Red. Parentage (FF x KP (501) x Magic Molly) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: fingerling

COTX08046-3R/R(051)-Long Red/Red. Parentage (FF x KP (501) x Magic Molly) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: fingerling

COTX08046-9P/P(055)-Long Purple/Purple. Parentage (FF x KP (501) x Magic Molly) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: fingerling

COTX08056-10R(057)-Red. Parentage (French Fingerling x POR01PG22-2) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: fingerling

165COTX08056-12R/R-Long Red/Red. Parentage (French Fingerling x POR01PG22-2) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes:

COTX08056-5R/R(061)- Red/Red. Parentage (French Fingerling x POR01PG22-2) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: fingerling

COTX08056-6R/R(063)-Long Red/Red. Parentage (French Fingerling x POR01PG22-2) Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: fingerling

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

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes:

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

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: fingerling

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

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: fingerling

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

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: fingerling

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

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: fingerling

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

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: fingerling

COTX03187-1W(081)-Long White. Parentage (A93570-13 x CO96109-4RU). Cross was made in Colorado and selected in Texas.

Uses: specialty.

Strengths:

Weaknesses:

Cutting Notes: fingerling

COTX07168-1Ru(083)-Long Russet. Parentage (A89219-7RU x AC97306-1RU) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses: oversized, large tubers, poor internal, very light russet, too fat

Cutting Notes:

PTTX05PG07-1W(085)-Long White. Parentage (POR01PG22-1 x OR00067-7). Cross was made in Prosser, Washington, tuberling produced in Texas and selected in Texas.

Uses: specialty.

Strengths: smooth shape, nice flesh, smooth BOT

Weaknesses: light set, bad rep

Cutting Notes: fingerling

TX08378-3R(089)- Long Red. Parentage (POR01PG20-12 x POR02PG26-5) Cross was made and selected in Texas.

Uses: fresh.

Strengths: heavy set, light yellow flesh with red center, BOT

Weaknesses: oversized

Cutting Notes: fingerling

Russet, Chip Selections/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 malformities, mediocre performance in Texas, feathering, sticky stolon, drop

Cutting Notes: poor shape

Russet Burbank(003)- Long Russet. Luther Burbank reported the origin of Russet Burbank in 1914 as a chimeric selection from the variety Burbank by Lou Sweet. Lou Sweet was a potato grower in the western slope area of Colorado and was President of the Potato Association of America in 1920. Late maturity. Large vine size. White flower color.

Uses: dual.

Strengths: Tolerant to scab, good long term storage.

Weaknesses: susceptible to Fusarium and Verticillium wilts, PLRV, PVY and net necrosis, Jelly-end and sugar-end develop in tubers when plants are subjected to stress, stress results in knobs, pointed ends and dumbbells, many culls, Rhizoctonia++, rough, poor shape, skinny

Cutting Notes: blocky, small, hollow heart

Russet Norkotah(005)- Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. Released in 1987 by the North Dakota Agricultural Experiment Station. Early-medium maturity. Medium vine size. Corolla is white and anthers are yellow-orange.

Uses: fresh.

Strengths: uniform tuber shape, excellent appearance, and resistance to hollow heart, shallow eyes, high percentage of #1 tubers, tolerance to common scab and silver scurf, nice flesh.

Weaknesses: weak vine, susceptibility to early dying, most virus, especially PVY, and late blight, and very susceptible to Verticillium wilt and early blight Rhizoctonia.

Cutting Notes: nice shape, large tubers

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

Uses: dual.

Strengths: nice skin, blocky

Weaknesses: skinny

Cutting Notes: blocky, small

A02138-2(009)-Oblong Light Russet. Parentage (A96563-8 x Premier R). Cross was made and selected in Aberdeen. Medium-early maturity. Medium vine size. White flower color.

Uses: dual.

Strengths:

Weaknesses:

Cutting Notes: skinny

A022507-2LB(011)-Oblong-Long Russet. Parentage (EGA09702-2 x GemStar R). Cross was made and selected in Aberdeen. Medium-late maturity. Medium vine size. White flower color.

Uses: dual.

Strengths:

Weaknesses:

Cutting Notes: blocky, pear shaped

A03158-2TE(013)-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:

Strengths:

Weaknesses:

Cutting Notes: blocky, nice shape

A99029-3E(015)-Oblong Russet. Parentage (A9230-5 x Summit R). Cross was made and selected in Aberdeen. Medium maturity. Medium vine size. White flower color.

Uses: dual.

Strengths:

Weaknesses:

Cutting Notes: blocky, nice

AC00395-2RU(017)-Long Russet. Parentage (A95523-12 x A84118-3). Cross was made in Aberdeen, and selected in Colorado. Late maturity. Very large vine. Light purple flower color.

Uses: dual.

Strengths: nice skin, blocky+, heavy set

Weaknesses: small

Cutting Notes: small

AO00057-2(019)-Oblong Russet. Parentage (A91048-3 x A93116-3BSR). Cross was made in Aberdeen, and selected in Oregon. Medium maturity. Medium vine size. White flower color.

Uses: dual.

Strengths:

Weaknesses:

Cutting Notes: nice, blocky

AO02060-3(021)-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:

Weaknesses:

Cutting Notes: small skinny

AO02183-2(023)-Long Russet. Parentage (A97236-3 x Premier). Cross was made in Aberdeen, and selected in Oregon. Medium-late maturity. Large vine size. White flower color.

Uses: dual.

Strengths:

Weaknesses:

Cutting Notes: round

A096305-3(025)-Long Russet. Parentage (A91018-6 x A89152-4). Cross was made in Aberdeen, and selected in Oregon. Medium maturity. Medium vine size. Red-purple flower color.

Uses: dual.

Strengths:

Weaknesses:

Cutting Notes: small skinny

CO03187-1RU(027)-Long White. Parentage (Rio Grande Russet x A9304-3). Cross was made and selected in Colorado. Very-early maturity. Medium vine size. Light purple flower color.

Uses: fresh.

Strengths: blocky

Weaknesses: light set++, small

Cutting Notes: small, skinny, rough

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

Uses: dual.

Strengths:

Weaknesses: skinny++, many culls+, poor shape

Cutting Notes: skinny

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

Uses: dual.

Strengths:

Weaknesses: light set++, small++,

Cutting Notes: nice shape

CO03276-5RU(033)-Long Russet. Parentage (CO95086-8RU x Blazer Russet). Cross was made and selected in Colorado. Medium early maturity. Medium large vine size. Purple flower color.

Uses: dual.

Strengths:

Weaknesses: low yield, small, light set, low yield, ugly

Cutting Notes: blocky, some rough

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

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: nice large tubers, some rough

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

Uses: dual.

Strengths:

Weaknesses:

Cutting Notes: blocky

CO04220-7RU(039)-Long Russet. Parentage (CO96109-7RU x Summit Russet). Cross was made and selected in Colorado. Early maturity. Medium vine size. White flower color.

Uses: dual.

Strengths:

Weaknesses:

Cutting Notes: some curved, hollow heart

CO04233-1RU(041)-Oblong Russet. Parentage (CO97138-3RU x Summit Russet). Cross was made and selected in Colorado. Medium-early maturity. Medium vine size. White flower color.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: blocky

AOTX96075-1Ru(043)- Long Russet. Parentage (A84118-3 x A89384-10). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Late maturity. Large vine size. White flower color.

Uses: fresh.

Strengths:

Weaknesses: drop? skinny, small, very low yield

Cutting Notes:

AOTX96216-2Ru(045)- Long Russet. Parentage (A89216-9 x A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Late maturity. Large vine size. White flower color

Uses: fresh.

Strengths: * in basket nice flesh, BOT, blocky, very nice, large tubers

Weaknesses: oversized, hollow heart, light set

Cutting Notes: very large, blocky, nice

AOTX96265-2Ru(047)- Oblong Russet. Parentage (A90621-4 X A84180-8). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Late maturity. Large vine size. White flower color

Uses: fresh.

Strengths: nice, * in basket nice skin blocky

Weaknesses: light set, some pointed, hollow heart oblong, round low yield, small+

Cutting Notes:

AOTX98152-3Ru(049)- Oblong Russet. Parentage (A88338-1 X A9201-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium early maturity. Medium vine size. Lavender flower color.

Uses: fresh.

Strengths: nice, light russet skin, nice shape, blocky, heavy set++,

Weaknesses: small

Cutting Notes: small, blocky

ATX91137-1Ru(051)- Oblong Russet. Parentage (A81473-2 x A8343-12) Cross was made in Aberdeen, and selected in Texas. Late maturity. Medium vine size. Lavender flower color.

Uses: fresh.

Strengths: heavy set, blocky, BOT-,

Weaknesses: rough, small, low yield

Cutting Notes: some pointed, some dry rot

ATX9332-12Ru(053)- Oblong Russet. Parentage (A8850-1 x A88288-1). Cross was made in Aberdeen and selected in Texas. Late maturity. Large vine size. White flower color.

Uses: fresh.

Strengths: nice flesh

Weaknesses: oversized, heat sprouts, small, all rot, bad rep, light set

Cutting Notes: poor shape, purple steaks in flesh

TXA549-1Ru(055)- Oval Russet. Parentage (ND9687-3Ru x ND9852-1Ru). Cross was made in Texas, selected in Aberdeen and tested extensively in Alberta, Canada. Medium-late maturity. Medium-large vine size. Purple flower color with White tips.

Uses: dual.

Strengths: blocky, keep, * in basket, nice, BOT+, heavy set, very nice, blocky, BOT+,

Weaknesses: low yield

Cutting Notes: blocky, nice shape

Stampede Russet(057)-Oblong-Long Russet. Parentage (BR7091-1 x Lemhi Russet), cross made in Texas, selected in Idaho and tested extensively in Alberta, Canada. Released in 1999 by Agriculture and Agri-Food Canada and the Texas Agricultural Experiment Station. Early maturity. Medium vine size. Lavender flower color.

Uses: fresh.

Strengths nice, * in basket nice shape, nice, blocky

Weaknesses: rot, light set+, low yield 20ZC small+

Cutting Notes: rough, some curved

ATX03475-7Ru(059)-Oblong Russet. Parentage (NDTX4930-5W X NYII2). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Late maturity. Large vine size.

Uses: fresh.

Strengths: very nice, blocky, heavy set

Weaknesses: small, light set, poor internals, slightly pointed

Cutting Notes: nice shape, small

AOTX95265-1Ru(061)-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: * in basket, yield+, BOT

Weaknesses: oversized: low yield, bad rep, rough

Cutting Notes: nice shape

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

Uses: fresh.

Strengths:

Weaknesses: oversized, pointed skinny, pointed, light set, light russet skin

Cutting Notes: small curved

AOTX96084-1Ru(065)-Oblong Russet. Parentage (A8792-1 X A86102-6). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium maturity. Large vine size. White flower color.

Uses: fresh.

Strengths:

Weaknesses: light set, oversized, pointed, small, low yield

Cutting Notes: blocky

AOTX98202-1Ru(067)-Oblong Russet. Parentage (A9201-6 X A9014-2). Cross was made in Aberdeen, tuberling produced in Oregon, and selected in Texas. Medium maturity. Medium vine size. Lavender flower color.

Uses: fresh.

Strengths: heavy set, nice shape+, large tubers

Weaknesses: low yield, pointed, knobs, drop?

Cutting Notes: blocky, nice shape

ATX03475-10Ru(069)-Oblong Russet. Parentage (NDTX4930-5W X NYII2). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Medium maturity. Medium vine size.

Uses: fresh.

Strengths: light russet skin, heavy set nice, keep, BOT-, * in basket

Weaknesses: skinny, lot of culls+

Cutting Notes: small, nice shape

ATX84378-6Ru(071)-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: nice shape, large tubers BOT

Weaknesses: some pointed small, light set

Cutting Notes: large, blocky, nice dark russet

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

Uses: fresh.

Strengths: nice shape, keep

Weaknesses: low yield, poor shape+, rough, oversized

Cutting Notes: nice shape

COTX05095-2Ru/Y(075)-Long Russet/Yellow. Parentage (CO99045-1W/Y X AO96164-1). Cross was made in Aberdeen and selected in Texas. Medium. Medium vine size. White flower color.

Uses: fresh.

Strengths: heavy set+, yield parent, yellow flesh, keep

Weaknesses: poor skin finish, light yellow flesh, small, low yield

Cutting Notes: small, nice yellow flesh, FL=3.0

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

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: small

COTX07206-1Ru(079)-Long Russet. Parentage (AC97306-1RU x CO99028-2RU) Cross was made in Colorado and selected in Texas. Late maturity. Large vine size. White flower color.

Uses: fresh.

Strengths: nice white flesh

Weaknesses: skinny

Cutting Notes: skinny

COTX08080-7Ru(081)-Oblong Russet. Parentage (A95409-1 x CO02098-3RU) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: blocky, nice shape

COTX08117-1Ru(083)-Oblong Russet. Parentage (A99073-1 X Summit Russet) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: nice shape and skin

COTX08121-3Ru(085)-Russet. Parentage (AC96052-1RU X Blazer Russet) Cross was made in Colorado and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: light russet

TX08350-12Ru(089)-Russet. Parentage (TXA549-1Ru x AC96052-1RU). Cross was made and selected in Texas.

Uses: fresh.

Strengths:

Weaknesses:

Cutting Notes: large tubers

TXNS410(091)-Oblong-Long Russet. Parentage (ND9526-4Ru x ND9687-5Ru). Cross was made and selected in North Dakota. TXNS410 is a mutant strain selection made in 1989 by Texas from the variety Russet Norkotah. Early maturity. Medium-large vine size. White flower color.

Uses: fresh

Strengths:

Weaknesses: hollow heart, light set, low yield

Cutting Notes: small, nice shape

Chip Selections

Atlantic(091)-Round White. Parentage (Wauseon x Lenape). 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 50°, uniform tuber size and shape, tolerant to scab and Verticillium wilt, resistant to pink eye and highly resistant to race A of golden nematode, PVX and tuber net necrosis

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

Chip Notes: nice, hollow heart

Cutting Notes: buff skin, nice shape

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

Uses: chip and French fries.

Strengths: High yield potential, high specific gravity and low sugar accumulation in storage will occasionally chip out of 40° storage, resistant to most internal and external defects including second growth, growth cracks, hollow heart, heat necrosis and blackspot bruises. Also resistant to leaf roll- induced net necrosis, Verticillium wilt, and both foliar and tuber phases of early blight BOT-++.

Weaknesses: Irregular shape, may oversize, buff skin, variable tuber size, skin feathering, some russet patches, green heads, susceptible to Rhizoctonia, common scab, and Fusarium dry rot, late maturity, deep eyes

Chip Notes: CR=2

Cutting Notes: Rhizoctonia, nice shape

A00188-3C(095)-Round Buff. Parentage (A91790-13W x Dakota Pearl). Cross was made and selected in Aberdeen. Medium-early maturity. Medium vine size.

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes: growth cracks, nice shape.

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

Uses: chip.

Strengths: nice

Weaknesses: heat sprouts++, low yield, light set

Chip Notes: CR=1

Cutting Notes: small

AC01151-5W(099)-Oblong White. Parentage (COA96142-7 x NDA2031-2). Cross was made in Aberdeen and selected in Colorado. Medium maturity. Medium vine size. Purple flower color.

Uses: chip.

Strengths: nice shape heavy set+

Weaknesses: heat sprouts, bad rep, small, poor shape, drop, poor internals, brown ring in vascular ring, greenhead

Chip Notes: CR=1

Cutting Notes: nice shape

AC03433-1W(101)-Round White. Parentage (A94322-8C x COA96141-4). Cross was made in Aberdeen and selected in Colorado.

Uses: chip.

Strengths: nice shape smooth

Weaknesses: sticky stolon, greenhead

Chip Notes: CR=1

Cutting Notes: very nice shape

CO02024-9W(103)-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: rough, small, did not size

Chip Notes: CR=1

Cutting Notes: nice

CO02033-1W(105)-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: ugly, many culls rough+, drop

Chip Notes: CR=1

Cutting Notes: flat

CO02321-4W(107)-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: nice rep

Weaknesses: greenheads, small, bad rep

Chip Notes: CR=1+

Cutting Notes: nice

CO03243-3W(109)-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: nice rep, large tubers, yield+

Weaknesses: rough, small, bad rep

Chip Notes: CR=1

Cutting Notes: nice size and shape

AC00206-2W(111)-Round White. Parentage (AC87340-2 x Dakota Pearl). Cross was made in Aberdeen, and selected in Colorado. Medium maturity. Medium-large vine size. White flower color.

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes: nice shape, hollow heart

AC03452-2W(0113)-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:

Weaknesses:

Cutting Notes: nice shape

ATTX03474-2W(115)-Round White. Parentage (NDTX4930-5W X C0A96141-4). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Medium-early maturity. Large vine size.

Uses: chip.

Strengths: yield+, very nice, keep, BOT+

Weaknesses: pointed,

Chip Notes: CR=1

Cutting Notes: rough

ATTX03474-3W(117)-Round White. Parentage (NDTX4930-5W X C0A96141-4). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Late maturity. Large vine size. White flower color.

Uses: chip.

Strengths: keep, medium to heavy set

Weaknesses: bad rep, heat sprouts++, buff, small,

Chip Notes: CR=1

Cutting Notes: small

ATTX03475-2W(119)-Round Buff. Parentage (NDTX4930-5W X NYII2). Cross was made in Aberdeen, tuberling produced in Texas, and selected in Texas. Early maturity. Small vine size.

Uses: chip.

Strengths:

Weaknesses:

Chip Notes: CR=1

Cutting Notes: shriveled, small

NDTX060700C-1W(121)-Round White. Parentage (NDTX 7560C-4 x NDTX 7192-1). Cross was made in North Dakota and selected in Texas. Early maturity. Small vine size. White flower color.

Uses: chip.

Strengths:

Weaknesses: low yield, drop+++ baby baker, russet skin, very small, mixed flesh

Chip Notes: BOT, CR=1

Cutting Notes: small

NDTX071084C-2W(123)-Round White. Parentage (ND 6809C-3 x ND 860-2) Cross was made in North Dakota and selected in Texas. Early maturity. Medium vine size.

Uses: chip.

Strengths: baby baker, nice, small, keep

Weaknesses:

Chip Notes: BOT, CR=1

Cutting Notes: small

NDTX071109C-1W(125)-Round White. Parentage (ND 7226C-17 x ND 860-2) Cross was made in North Dakota and selected in Texas. Late maturity. Large vine size.

Uses: chip.

Strengths: BOT

Weaknesses: rough

Chip Notes: BOT, CR=1

Cutting Notes: large tubers, rough, nice shape

NDTX071217CB-1W/Y(127)- Round White. Parentage (ND 028801CB-1 x ND 039004B-2Y) Cross was made in North Dakota and selected in Texas. Medium maturity. Medium vine size.

Uses: specialty.

Strengths: some pointed, yellow flesh

Weaknesses:

Chip Notes: CR=2

Cutting Notes: nice shape, yellow flesh, FL=3.0

NDTX081648CB-13W(129)- White. Parentage (ND 8456-1 xND7377CB-1) Cross was made in North Dakota and selected in Texas.

Uses: chip.

Strengths:

Weaknesses:

Cutting Notes: nice

Prefix Source Key for Numbered Advanced Selections:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

CO = cross made and selected in Colorado

COTX = cross made in Colorado and selected in Texas

DT = cross made in North Dakota and selected in Texas

FL = cross made and selected by Frito-Lay

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

MN = cross made and selected in Minnesota

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

MWTX = cross made by USDA/ARS Madison, Wisconsin and selected in Texas

ND = cross made and selected in North Dakota

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

NDC = cross made in North Dakota and selected in Colorado

NDO = cross made in North Dakota and selected in Oregon

NDTX = cross made in North Dakota and selected in Texas

NY = cross made and selected in New York

OR = cross made and selected in Oregon

PA = cross made and selected in Prosser, Washington

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

TX = cross made and selected in Texas

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

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

TXND = cross made in Texas and selected in North Dakota

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

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

VC = cross made in Lethbridge, Alberta and selected in Colorado

Variety strain "numbers" = selections (strains) out of various varieties made by Gene Shaver in Nebraska

Variety strain "letters" = selections (strains) out of various varieties made by Warren Trank in Nebraska



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