

Background and Objective

- ❖ E.S. Cropconsult Ltd. has been working with BC potato growers on varietal selections since 2004.
- ❖ The objectives of this project were to evaluate the agronomic and culinary qualities of new varieties under BC growing conditions.

Methods

- ❖ The demonstration (ten hills per variety) and replicated plots (20 hills per variety replicated three times) of the 2021 BC PVT were planted at Felix Farms in Delta BC on May 14th, 2021.
- ❖ The demonstration plots were harvested for display on August 18th, 2021 (Fig. 1).
- ❖ The replicated plots were top-killed on September 10th and harvested October 7th and 8th, 2021 (119 growing days after planting).
- ❖ There were three irrigation events.
- ❖ There were several high heat events that did impact the growth of the potatoes.
- ❖ The plots were managed in conjunction with the surrounding crop of potatoes.



Figure 1. Demonstration plots were harvested for display on August 18th, 2021.

Heat Stress Highlights

Impacts of Heat- A number of varieties showed stress responses to the heat, including chaining, sprouting of tubers, and misshapen tubers. The varieties showing the severe heat stress symptoms included Torino, Mozart, Libertie, Noblesse, FV 16661-01, and Harmony (Figs. 2&3).



Figure 2. Varieties Torino, Mozart, and Libertie were amongst varieties displaying heat stress symptoms during the 2021 PVT.

Impacts of Heat (continued)-



Figure 3. Varieties Noblesse, FV 16661-01, and Harmony were amongst varieties displaying heat stress symptoms during the 2021 PVT.

Variety Highlights

Specialty varieties- Three specialty varieties were included in the replicated trial (Fig.4)

Midnight (25 t/ac)



Carminelle (25 t/ac)



Cerisa (18 t/ac)

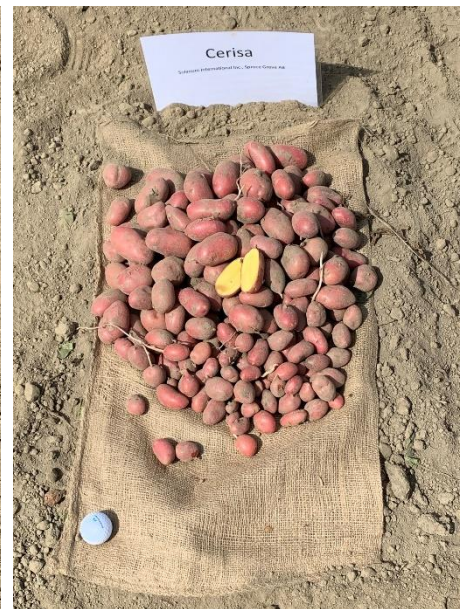


Figure 4. Specialty varieties along with their replicated trial yield (t/ac). Golf ball for size reference.

Red skinned varieties- Nine varieties including the industry standard Chieftain (Fig. 5)

Standard: Chieftain 24 t/ac

Lollipop 12 t/ac

MSW343-2R 19 t/ac



CO99076-6R 19 t/ac

Fenway Red 23 t/ac

Autumn Rose 26 t/ac



Crimson Tide 27 t/ac

Elmo 28 t/ac

Cerata KWS 33 t/ac



Figure 5. Red skinned varieties along with their replicated trial yield (t/ac). Star denoting highest yielding variety. Golf ball for size reference.

Red skinned yellow fleshed varieties- Six varieties including the industry standard Mozart (Fig. 6)

Standard: Mozart 27 t/ac



F14119 23 t/ac



Red Apple 24 t/ac



Rooster 27 t/ac



Torino 27 t/ac



Rosi 35 t/ac



Figure 6. Red skinned yellow flesh varieties along with their replicated trial yield (t/ac). Star denoting highest yielding variety. Golf ball for size reference.

Russet varieties- Ten varieties including the industry standard Russet Norkotah (Fig. 7)

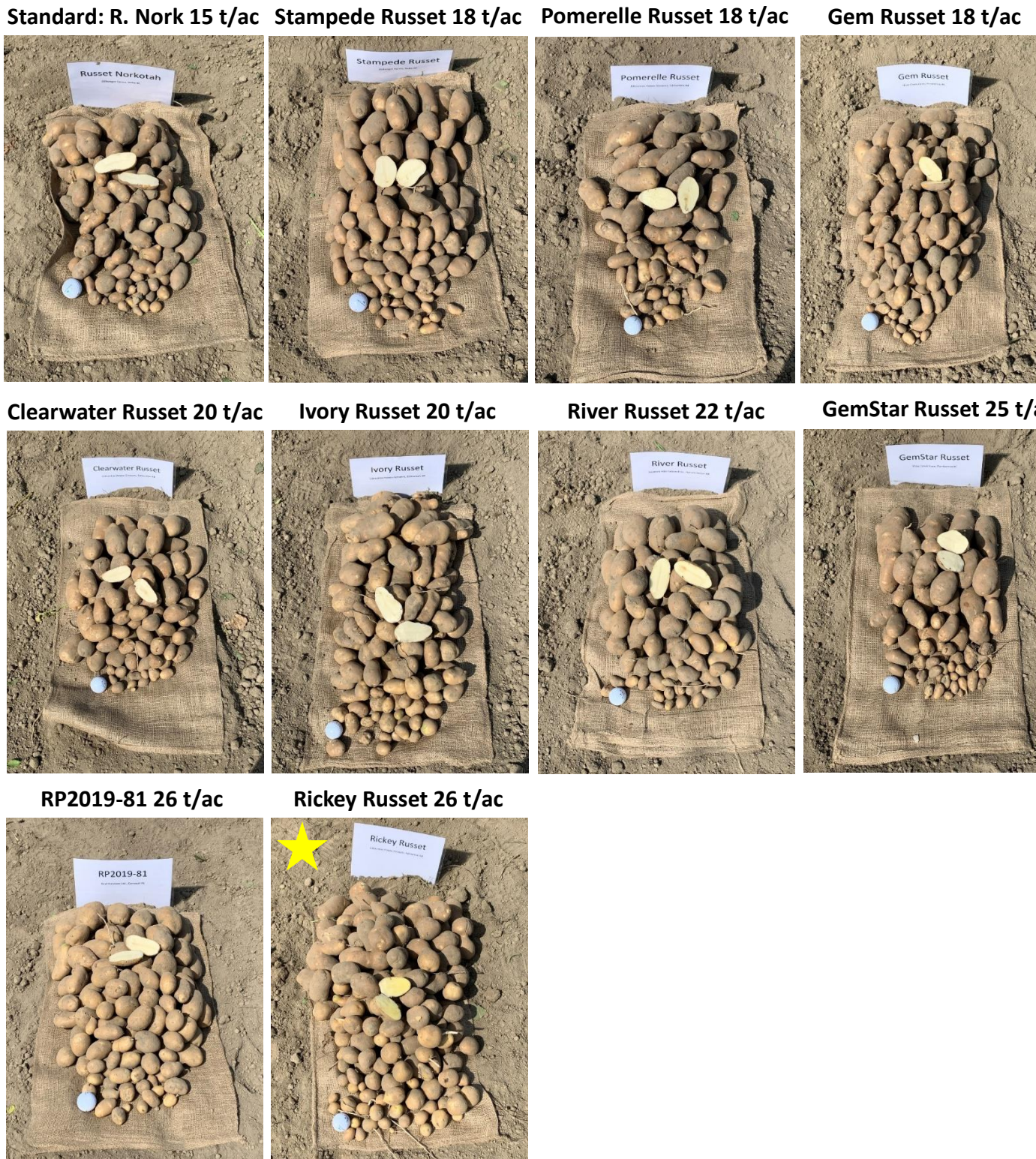


Figure 7. Russet varieties along with their replicated trial yield (t/ac). Star denoting highest yielding variety. Golf ball for size reference.

Dual purpose/processing varieties- Four varieties including the industry standard Kennebec (Fig. 8)

Standard: Kennebec 23 t/ac

Divaa 18t/ac

Meister 25 t/ac

Jennifer 28 t/ac



Figure 8. Dual purpose/processing varieties along with their replicated trial yield (t/ac). Star denoting highest yielding variety. Golf ball for size reference.

White skinned varieties- Eight varieties (Fig. 9)

Sifra 22 t/ac

White Beauty 24 t/ac

Libertie 25 t/ac

Abbott 25 t/ac



Whitney 25 t/ac

Audrey 28 t/ac

Harmony 29 t/ac

Avalanche 31 t/ac



Figure 9. White skinned varieties along with their replicated trial yield (t/ac). Star denoting highest yielding variety. Golf ball for size reference.

Yellow skinned/flesh varieties- 19 varieties including the industry standard Yukon Gold (Figs. 10&11)

**Standard:
Yukon Gold 19 t/ac**

Clairette 17 t/ac

FV16324-08 17 t/ac

HZD06-1668 20 t/ac



Rock 20 t/ac

Erika 22 t/ac

Acoustic 23 t/ac

HZD08-1059 23 t/ac



Merida 24 t/ac

Noblesse 24 t/ac

Alegria 24 t/ac

Arizona 25 t/ac



Figure 10. Yellow skinned/flesh varieties along with their replicated trial yield (t/ac). Golf ball for size reference.

Yellow skinned/flesh varieties (continued)-

Nectar 27 t/ac



Alaska Gold 28 t/ac



Constance 29 t/ac



Agata 30 t/ac



Bonnata KWS 30 t/ac



Soprano 30 t/ac



Electra 32 t/ac



Figure 10. Yellow skinned/flesh varieties along with their replicated trial yield (t/ac). Star denoting highest yielding variety. Golf ball for size reference.

Field Day Feedback

Variety	Skin/Flesh Colour	% Interested	Comments
Atlantic	Buff/White	0	Medium yield. Round buff white. Some heat stress. Skinning. Misshapen. Expected more. Flaky skin.
CV12267-1	Russet/White	10%	Medium yield. Long pale russet. Some heat stress. Even shape but some skinning. Good shape. Even whiter skin.
CV13007-1	Russet/White	3%	Medium yield. Long pale russet. Some heat stress. Skinning. No russetting. Too white skin.
CV13010-5	Russet/White	3%	Large yield. Long, heavy russet. Heat stress with sprouts and stolons. Some malformed. Too knotty. Slightly small. Too skinny. Not uniform in size.
CV15129-1	Red/White	20%	Large yield, small round creamer. Uniform in size and shape but small. No visible heat stress. Good colour and shape.
F160025-03	Red/White	30%	Medium yield. Round. Bright, shiny. Smooth skin. Nice colour. Vibrant red. Looks good on a plate. Pretty.
F160032-06	White/White	17%	Low yield. Round. Bright – ok. Nice skin. Good appearance and size.
F160032-16	White/White	3%	Low yield. Round. Buff – meh. Nice shape. Fairly clean/smooth. Russetting.
F160036-02	Russet/Cream	7%	Low yield. Long pale russet. Good size on bigs. Terrible.
RP2009-2R	Red/Yellow	7%	Medium yield. Uniform, long (fingerling?). Nice skin/flesh colour. Skinning. Good if can grow bigger.
Rosmara	Red/Yellow	7%	Medium yield. Variable shape and size. Bright eyes. Skinning.
Carminelle	Red/Yellow	7%	Large yield. Long, uniform fingerling. Some malformed. Too small. Is it a banana type? Awkward shape.
Midnight	Purple/Purple	10%	Medium yield. Round. Rough skin. Nice colour. Not for commercial? Very good niche for restaurant. Smooth. Novelty.
Paroli	Yellow/Yellow	13%	Medium yield. Round to oval. Some malformed.
RP2011-02Y	Yellow/Yellow	7%	Very large yield. Round. Very small.
Rickey Russet	Russet/White	13%	Large yield. Variable shape. Dumbbells. Rough skin. Some malformed. Good russet. How do they cook? Small.
Russet Norkotah	Russet/White	17%	Medium yield. Some misshapen. Rough. Nice skin. Not uniform enough. Pretty good.
Stampede Russet	Russet/White	40%	Large yield. Uniform, good profile. Small. Nice skin. Nice looking. Good shape and colour. Pretty good.
Clearwater Russet	Russet/White	20%	Medium yield. Nice (on small side). Good shape. Nice skin. Uniform shape. Like the size. Would make good homemade fries.
Gem Russet	Russet/White	20%	Medium yield. Uniform. Skinning. Some malformed. Rough. Nice shape. Small.
GemStar Russet	Russet/White	17%	Low yield. Uniform. Heavy russet. Nice skin. Fairly smooth. Rough. Nice shape.
Ivory Russet	Russet/White	7%	Large yield. Long. A little bumpy. Warty. Misshapen. Rough. Looks like a sweet potato.
Pomerelle Russet	Russet/White	7%	Medium yield. Long. Bright eyes. Nice skin. Too warty. Too shiny. Looks like a sweet potato. Too long.
River Russet	Russet/White	13%	Medium yield. Round. Some spindle. Rough, nice skin. Blocky. Decent size and shape. Deep eyes. Too round.
RP 2019-81	Russet/White	27%	Large yield. Very uniform size and shape. Flaky russet. Rough skin. Not uniform. Slightly misshapen. Good size and russetting. Consistent shape.
F160038-07	Russet/White	7%	Low yield. Bumpy, long, medium size russet. Smooth.
F160046-05	Russet/White	3%	Low yield. Light russet. Obvious brow. Malformed.
FV16004-7	Red/White	40%	Low to medium yield. Round to oval. Bright, smooth. Nice shape and colour. Nice skin. Good uniformity.
FV16062-1	Russet/White	10%	Medium yield. Long. Heavy russet. Nice skin. Uniform. Tear drop shape. Too shiny.

Field Day Feedback (continued)

Variety	Skin/Flesh Colour	% Interested	Comments
FV16604-1	Russet/White	17%	Large yield. Oval. Light russet. Nice shape. Big, uniform. Rough skin.
FV16661-01	Buff/White	7%	Large yield. Round to oval. Knobby. Many fused from heat. Many malformed. Unusable in restaurant. Irregular sizing.
Norland	Red/White	17%	Medium yield. Round. Uniform. Nice colour. Nice shape. Smooth.
Ranger Russet	Russet/White	0%	Low yield. Oval to long. Light russetting.
Russet Burbank	Russet/White	7%	Medium yield. Knobby. Many malformed. Deep eyes. Rough. Yuck! Irregular/interesting shape.
HZD06-1668	Yellow/White	10%	Medium yield. Small, oval. Shiny. Skinning. Creamers.
HZD08-1059	Yellow/White	7%	Medium yield. Round to oval. Shiny. Some malformed. Good shape and colour.
RP2001-14Y	Yellow	7%	Medium yield. Round. Bright. Small. A little heat damaged. Stolon. Skinning. Uniform shape.
Abbott	White/White	7%	Medium yield. Oval. Big. Uniform shape. Rough. Malformed. Looks like a Kennebec type.
Audrey	White/White	37%	Large yield, Round to oval. Smooth. Many small stolons. Beauty. Dark lenticels. Needs to be bigger. Pretty white.
Avalanche	White/White	10%	Large yield. Round to oval. Buff. Heat damage.
Harmony	White/White	7%	Large yield. Round. Many stolon. Heat sprouts.
Libertie	White/White	7%	Large yield. Round to oval. Stolons, chaining. Heat sprouts.
Sifra	White/White	13%	Medium yield. Round. Stolons attached. Heat sprouts.
White Beauty	White/White	13%	Medium yield. Round. Smooth. Very light. Little stolons. Skinning. Disc shaped.
Whitney	White/White	43%	Large yield. Round. Smooth. Beauty. Nice shape and colour. Uniform size.
Rock	Yellow/White	23%	Large yield. Round to oval. Shiny. Many small. Potential, late blight. Nice skin and flesh. Uniform shape.
Divaa	White/White	7%	Medium yield. Long. Smooth. Nice skin. Irregular shape. Needs to be bigger. Too skinny. Great name.
Jennifer	White/White	13%	Large yield. Round to oval. Chaining. Nice skin. Too round. Too small.
Kennebec	White/White	13%	Low yield. Oval. Shiny. Irregular shapes. Many malformed.
Meister	White/White	3%	Large yield. Uniform oval. Fused. Shiny. Irregular shape. Rough. Not consistent.
Shepody	Buff/White	0%	Low to medium yield. Odd shape.
Snowden	Buff/White	0%	Medium yield. Round. Buff white. Rough skin. Irregular shapes.
VF140855-03	Russet/White	13%	Low to medium yield. Oval to long. Nice shape. Uniform size. Light russet. Nice skin. Too skinny.
VF140855-07	Russet/Cream	3%	Low to medium yield. Oval to long. Uniform size, variable shape. Pale russet. Stolons.
VF140855-11	Russet/White	3%	Low yield. Long. Medium russet. Stolons. Heat.
VF160109-01	Purple/White	3%	Medium yield. Round to oval, skinny. Dark red. Heat. Small. Irregular sizing. Full colour.
VF160011-05	Russet/Cream	7%	Medium yield. Long & skinny. Variable shape. Medium russet. Nice skin. Smooth, small. Too small.
VF160017-05	Russet/Cream	3%	Low yield. Variable shape. Pale/light russet. Nice skin. Great shape.
VF160019-03	Russet/Cream	7%	Low yield. Long, variable shape. Medium russet.
Acoustic	Yellow/White	3%	Low yield. Oval, blocky. Stolons. Heat. Smooth rough? Irregular shape. Disappointed in this one.
Agata	Yellow/White	17%	Low yield. Oval. Good. Nice skin.
Alaska Gold	Yellow/White	3%	Low yield. Oval. Shiny. Stolons. Misshapen. Heat stress. Not useable. Excessive stolons. I thought Alaska Gold had pink eyes?
Alegria	Yellow/White	10%	Low yield. Oval to long. Variable shape. Nice skin (some rough, irregular). Great colour.

Field Day Feedback (continued)

Variety	Skin/Flesh Colour	% Interested	Comments
Arizona	Yellow/Yellow	33%	Low yield. Round to oval. Bright, small. Nice shape & skin. Better for restaurants. Not yellow enough.
Constance	Yellow/Yellow	20%	Low yield. Bright yellow. Dark lenticel. Heat stress.
Electra	Yellow/Yellow	7%	Low yield. Very smooth, nice. Nice snap.
Erika	Yellow/Yellow	7%	Low yield. Long, shiny, pretty. Nice skin. Can it be bigger?
FV16324-08	Yellow/Yellow	7%	Low yield. Round. Uniform size. Nice shape! Skinning.
Merida	Yellow/Yellow	23%	Low yield. Round to oval. Nice skin & shape. Good for restaurants. Gorgeous colour! Does it stay that colour after cooking?
Nectar	Yellow/Yellow	7%	Low yield. Oval. Chaining. Heat stress. Skinning. Too many small.
Soprano	Yellow/Yellow	7%	Low yield. Oval. Little tuber/secondary tuber. Heat stress. Nice skin. No big ones.
Yukon Gold	Yellow/Yellow	17%	Medium yield. Looks good. Irregular shape.
Bonnata KWS	Yellow/Yellow	7%	Low yield. Oval. Chaining, fusing. Snowman. Heat stress. Malformed.
Clairette	Yellow/Yellow	3%	Medium yield. Round to oval. Smooth. Small. Heat stress. Irregular shape.
Noblesse	Yellow/Yellow	13%	Low yield. Round, uniform. Shiny. Need more time. Heat sprouts. Irregular shape. Nice yellow flesh. Too small.
VF160019-04	Russet/Cream	3%	Low to medium yield. Long. Variable shape. Light russet.
VF160022-01	Russet/Cream	3%	Medium yield. Oval. Too light. Nice skin.
VF160087-06	Russet/Cream	3%	Low yield. Long. Russet. Too big. Rough skin.
VF160090-05	Russet/Cream	17%	Low yield. Rough skin. Heavy russet. Malformed. Nice looking russet.
VF160090-09	Russet/Cream	3%	Medium yield. Long. Stolons. Lots of smalls. Good russetting. No middle size.
VF160099-01	Red/White	20%	Medium yield. Round. Bright, smooth, shiny. Stolons. Nice looking.
Vigor	Yellow/Yellow	17%	Large yield. Yellow. Round to oval. Stolons. Nice skin. Rough.
WV10620-2	Russet/Yellow	10%	Medium yield. Oval. Too light buff. Nice shape. Skinning. No market? Poor russet colour.
WV10655-1	Russet/White	0%	Medium yield. Round to oval. Variable size. Huge. Rough skin. Poor colour. Too round. Nice flesh colour.
Cerisa	Red/Yellow	7%	Low yield. Fingerling. Smooth. Heat stress/holding. Narrow. Nice shape & colour.
F14119	Red/Yellow	13%	Low yield. Uniform size and shape. Round. Very light red. Stolons. Nice. Skinning. Poor colour. Nice flesh colour.
Mozart	Red/Yellow	10%	Medium yield. Oval. Snowmen. Very light. Lots of smalls. Too pale but tastes nice.
Red Apple	Red/Yellow	10%	Medium yield. Round. Nice dark red. Uniform but small. Too small.
Rooster	Red/Yellow	3%	Medium yield. Round to oval. Small & too pale. Nice skin. Ugly colour.
Rosi	Red/Yellow	13%	Large yield. Round to oval. Uniform size. Too pale. Nice size and shape. Nice colour.
Torino	Red/Yellow	0%	Low to medium yield. Round to oval. Shiny. Heat stress, stolon, chaining. Sprouts. Too many smalls.
Autumn Rose	Red/White	10%	Low to medium yield. Round. Uniform size. A little small. Less stolon. Rough skin. Irregular sizes.
Cerata KWS	Red/White	13%	Low to medium yield. Round. Uniform size. Light red. Stolon. Has potential. Rough skin. Nice white colour.
Chieftain	Red/White	30%	Low to medium yield. Round. Looks great. Less stolon. Rough skin.
CO99076-6R	Red/White	47%	Low to medium yield. Round. Uniform. Dark red. Irregular shape. Great colour & shape.
Crimson Tide	Red/White	7%	Low to medium yield. Small. Round to oval. Irregular shape and size. Pink.

Field Day Feedback (continued)

Variety	Skin/Flesh Colour	% Interested	Comments
Elmo	Red/White	37%	Low to medium yield. Round. Pale red. Snowman. Stolons. Heat. Very rough skin. A bit too light. Too russet. Great size, cute name!
Fenway Red	Red/White	17%	Large yield. Round. Good colour. 3 rd set. Heat. Nice shape. Sprouts. Malformed. Stems holding on.
Lollipop	Red/White	0%	Low yield. Small round. Heat. Irregular shape. Too small.
MSW343-2R	Red/White	10%	Low yield. Round. Uniform. Bright. Nice skin, irregular shape. A bit warty. Good sizing. Large size.

Varieties Selected for Culinary and Post-Harvest Disease Assessment

Variety	Colour	Use
Chieftain	Red	Fresh - Boil
CO99076-2R	Red	Fresh - Boil
Elmo	Red	Fresh - Boil
Clearwater Russet	Russet	Fresh-Bake or dough/bread
Gem Russet	Russet	Fresh-Bake or dough/bread
RP2019-81	Russet	Fresh-Bake or dough/bread
Stampede Russet	Russet	Fresh-Bake or dough/bread
Audrey	White	Fresh - Any use
Whitney	White	Fresh - Any use
Agata	Yellow	Fresh - Salad or Mash
Arizona	Yellow	Fresh - Salad or Mash
Constance	Yellow	Fresh - Salad or Mash
Merida	Yellow	Fresh - Salad or Mash

Replicated Trial Results

Planted May 14th, 2021 and harvested October 7th and 8th. The crop was irrigated three times.

Specialty	Average yield (t/ac)	Uniform shape	Uniform size	Overall appearance	Comments
Midnight	25	4	4	3.5	Variable white splash in purple flesh
Carminelle	25	2	4	4	Fingerling generally good
Cerisa	18	4	4	4	Fingerling
Reds	Average yield (t/ac)	Uniform shape	Uniform size	Overall appearance	Comments
Lollipop	12	4	4	4	Small-creamers
MSW343-2R	19	4	4	4	
CO99076-6R	19	4	4	4	Nice! Crisp
Fenway Red	23	4	4	4	
Chieftain	24	5	5	5	
Autumn Rose	26	3	4	3.5	
Crimson Tide	27	4	4	4	
Elmo	28	2.5	4	3	Very flaky - elephant hide
Cerata KWS	33	4	4	4	Scaly - elephant hide
Red skin/yellow flesh	Average yield (t/ac)	Uniform shape	Uniform size	Overall appearance	Comments
F14119	23	4	4	4	Flaky skin
Red Apple	24	3	4	3	Many small tubers
Rooster	27	3	4	4	
Mozart	27	4	4	4	Flaky skin - elephant hide
Torino	30	3	4	4	Waxy flesh
Rosi	35	4	4	4	Stem end browning but less than last year
Russets	Average yield (t/ac)	Uniform shape	Uniform size	Overall appearance	Comments
Russet Norkotah	15	3	4	3	
Stampede Russet	18	5	5	5	Very nice, slight pink eye
Pomerelle Russet	18	4	4	4	Low yield
Gem Russet	18	4	4	3	Knobby
Clearwater Russet	20	4	4	4	
Ivory Russet	20	2	3	3	Very knobby
River Russet	22	5	4	4	Heat stolons
GemStar Russet	25	4	4	4	Really nice looking
RP 2019-81	26	4	4	4	Nice, uniform
Rickey Russet	26	3	4	4	Yellow and white
Dual purpose	Average yield (t/ac)	Uniform shape	Uniform size	Overall appearance	Comments
Divaa	18	2	4	3	
Kennebec	23	4	4	4	
Meister	25	3	4	3	Smooth but misshapen
Jennifer	28	2	4	3.5	

Replicated Trial Results (continued)

Planted May 14th, 2021 and harvested October 7th and 8th. The crop was irrigated three times.

White skinned	Average yield t/ac	Uniform shape	Uniform size	Overall appearance	Comments
Sifra	22	4	4	4	Heat stolons
White Beauty	24	4	4	4	High moisture content
Libertie (105/2/w/06)	25	4	4	4	Nice bright skin, heat stolons, stem end browning
Abbott	25	4	4	4	Purple eyes
Whitney	25	4	4	4	
Audrey	28	3	4	4	
Harmony	29	4	4	4	
Avalanche	31	4	4	3.5	
Yellow skinned	Average yield t/ac	Uniform shape	Uniform size	Overall appearance	Comments
Clairette	17	4	4	4	
FV16324-08	17	4	4	4	
Yukon Gold	19	5	5	5	
HZD06-1668	20	3	4	4	
Rock	20	4	4	3	Too small, low yield
Erika	22	3	4	3.5	Smooth, pretty, some knobby
Acoustic	23	4	4	4	Smooth
HZD08-1059	23	3	4	3.5	Waxy
Merida	24	5	5	5	
Noblesse	24	4	4	4	
Alegria	24	4	4	3.5	Flaky/russet skin
Arizona	25	4	4	4	Cutworm, greening, many large - good profile
Nectar	27	4	4	4	Bright pink eyes, stemend browning
Alaska Gold	28	3	4	3.5	
Constance	29	5	5	5	Smooth, bright
Agata	30	5	5	5	
Bonnata KWS	30	4	4	4	Smooth skin
Soprano	30	3	4	3.5	
Electra	32	4	4	4	

Yield is the average of 20 hills in 3 plots of each variety converted to tons per acre (not graded). Uniformity of shape and size are on a scale of 0-5 with 5 being most desirable and 0 least desirable. Grown for approximately 110 days (from planting to top kill).

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