

# Cornell Cooperative Extension

Eastern NY Commercial Horticulture Program

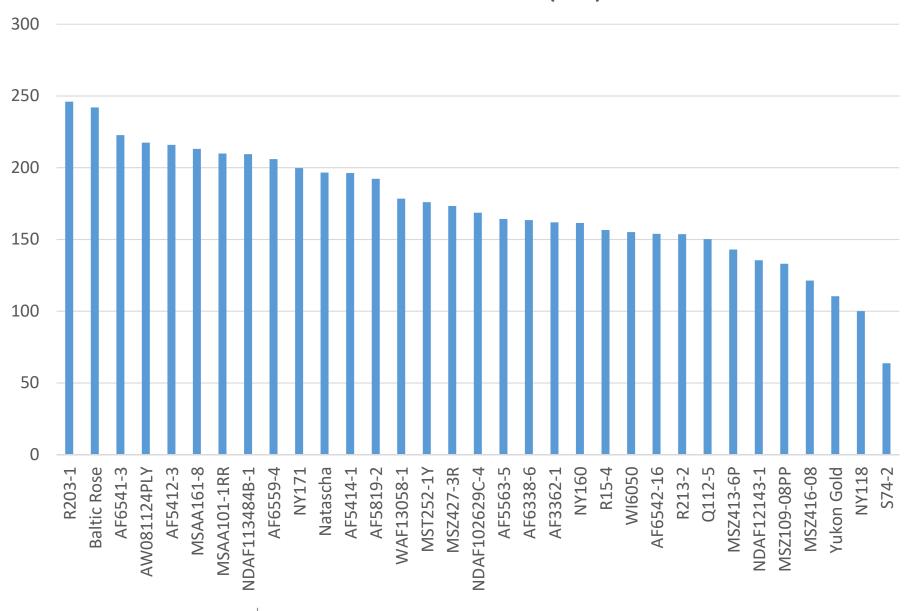
### **2021 Potato Variety Trial**







#### **Total Marketable Yield (Cwt)**



Cornell Cooperative Extension | Eastern NY Commercial Horticulture Program

#### Trial Information

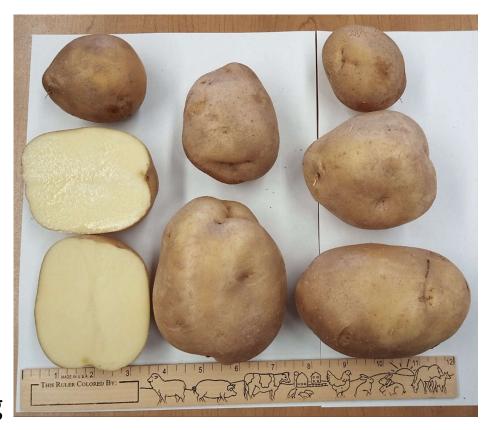
- Columbia County
- Conventional
- Row spacing: 30", in row spacing: 12"
- Planted 5/14/21
- Irrigated
- Harvested November 1<sup>st</sup> and graded November 18<sup>th</sup> 19<sup>th</sup> and 22<sup>nd</sup> using grader with chains set at various lengths as seen in data
- Taste testing information may come later

# White Skin, White Flesh Lines



#### AF5563-5

- University of Maine
- White skin, white flesh
- Shape is mostly oblong and round
- Huge size with a ton of chef's
- Smooth skin, nice color
- Shallow eyes
- Some misshapes and cracks
- Hollow heart issues on the big chef's



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
164	98	65	2	59	39	1

#### AF5819-2

- University of Maine
- White skin, white flesh
- Mostly rounded shape
- Few shallow eyes
- Good size, a lot of large A's and chef's
- Some stem end discoloration and PVY issues found
- Culls otherwise were mostly greeners



		f Marketable Distributio		% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
192	77	108	8	40	56	4

#### AF6559-4

- University of Maine
- White skin, white flesh
- Shape is very round and slightly oblong
- Very uniform
- Excellent size, chef's are nice but not too big
- Medium eyes
- Bright clean skin
- Small amount of cracking



		f Marketable Distributio		% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
206	54	141	11	26	68	5

#### NADF102629C-4

- University of Maine
- White skin, white flesh
- Round shape with some oblongs, very nice looking
- Skin has a little bit of texture to it, buff color
- Shallow eyes
- Great size, with mostly large A's and some chef's, all very uniform
- Culls were mostly greeners



		Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>	l	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)	
169	36	115	18	21	68	10	

#### NY171

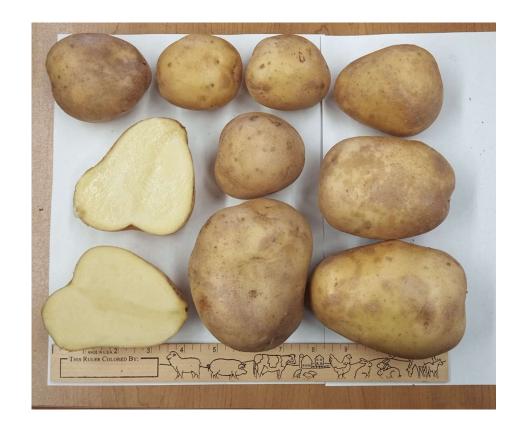
- Cornell University
- White skin with dark purple splashes, white flesh
- Oblong and flat shape
- Very nice looking overall
- Skin is smooth and bright
- Some eyes are raised but mostly shallow
- Some variation in sizes, chef's, A's and B's all present and look nice
- Culls were mostly greeners



		Marketable Distributio		% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>	l	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
200	83	99	18	41	50	9

### Q112-5

- Cornell University
- White skin, white flesh
- Shape is variable, round or oblong flat
- Smooth skin, bright color
- Good size, with plenty of chef's and A's
- Few culls, mostly greeners
- Overall, very nice



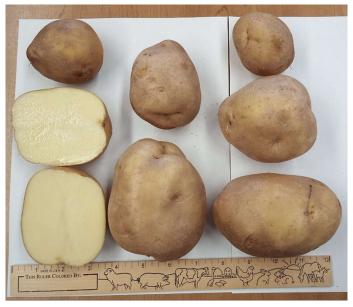
		f Marketable Distributio		% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
150	30	110	10	20	73	7

#### R15-4

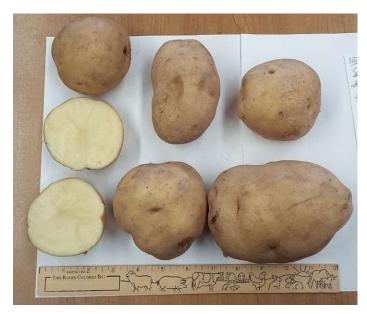
- Cornell University
- White skin, white flesh
- Shape is flattened and oblong, some of them are lumpy and inconsistent in shape
- Skin has a little texture
- A few cracks
- Shallow eyes
- Culls were mostly greeners with some cracks



		Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)	
157	64	87	6	41	56	4	

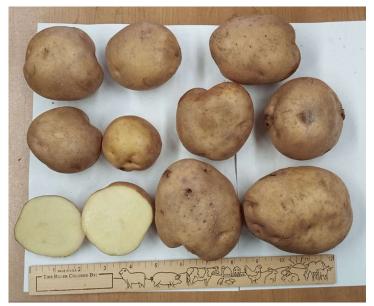


AF5563-5

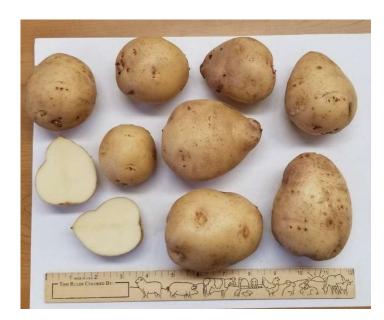


AF6559-4

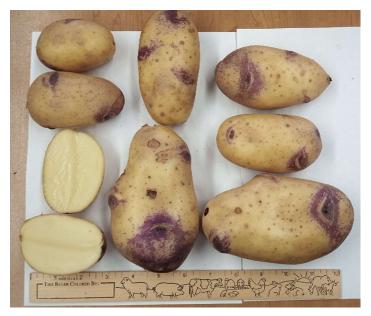
Cornell Cooperative Extension | Eastern NY Commercial Horticulture Program

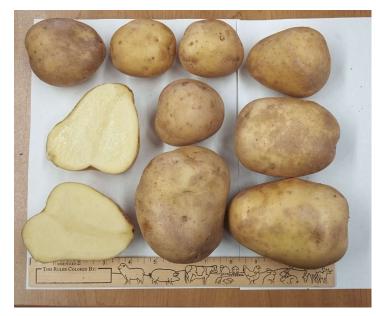


AF5819-2



NADF102629C-4



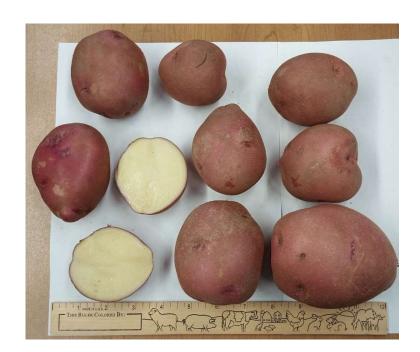


NY171 Q112-5



R15-4

# Red Skin White Flesh Lines



#### MSZ427-3R

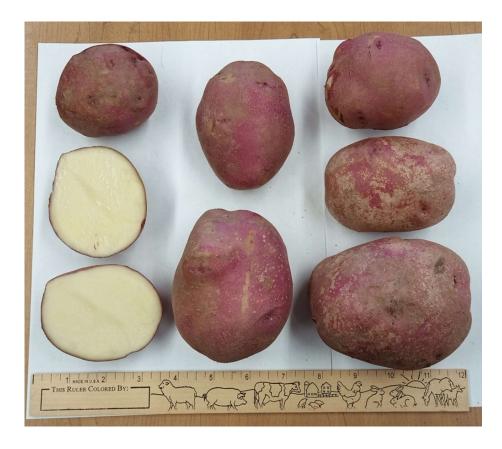
- Michigan State University
- Red skin, white flesh
- Skin can be a little paler with some scruff
- Shape is round with some flatter oblongs
- Medium eyes
- No major cull issues
- Good size



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
173	54	111	8	31	64	5

#### NDAF113484B-1

- University of Maine
- Red skin, white flesh
- Liked this variety in past years' trials as well
- Round, round shape that was very nice
- Skin can be a little scruffy
- Shallow eyes
- Very few culls
- Good size and variety of sizes
- Lots of really big A's and B's also nice



		Marketable Distributio		% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
209	77	128	4	37	61	2

#### NDAF12143-1

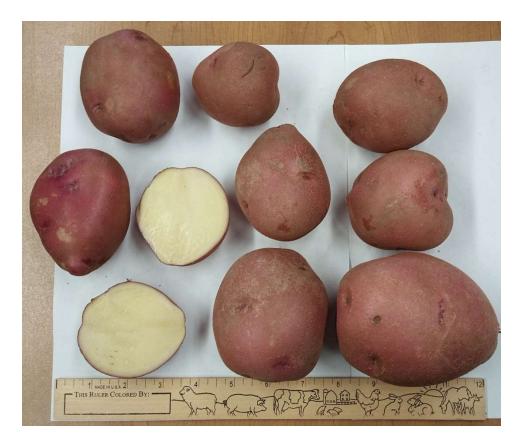
- University of Maine
- Red skin, white flesh
- Nice dark red color
- Medium eyes
- Round shape
- Similar to the NDAF113484B-1 if a little smaller overall
- A few growth cracks but not major



		Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)	
135	21	106	9	16	78	6	

#### NY118

- Cornell University
- Red skin, white flesh
- Nice light red skin
- Oblong to round shape
- Chef's and A's are round to slightly flattened, B's are round
- Didn't yield well in 2021
- Medium eyes
- Uniform in size, mostly A's and some chef's



		Marketable Distributio		% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
100	17	73	10	17	73	10

### NY160

- Cornell University
- Pink skin, white flesh
- Skin is smooth
- Shallow eyes
- Not a big potato with some nice A's but a lot of B's
- Round shape to slightly oblong
- No major cull issues



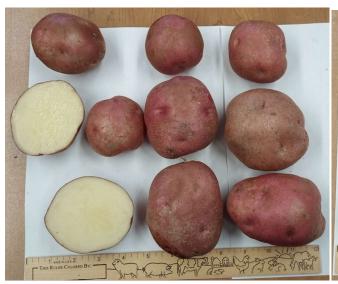
		Marketable Distributio		% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
161	5	124	32	3	77	20

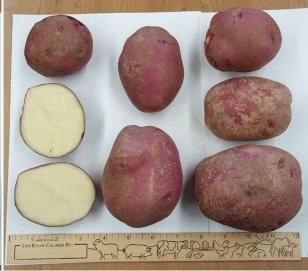
#### S74-2

- Cornell University
- Red skin, white flesh
- Medium to dark red skin, very nice looking
- Small size, high setting type
- Nice, round shape
- Lots of small A's and B's
- Nice looking



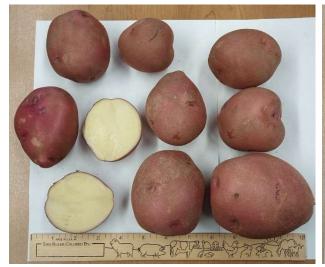
	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
64	0	44	20	0	69	31



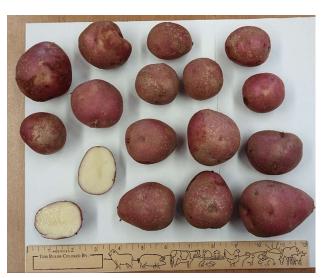




MSZ427-3R NADF113484B-1 NDAF12143-1







NY118 NY160 S74-2

# Red Skin Yellow Flesh Lines



### Baltic Rose

- Childstock Farm
- Red skin, dark yellow flesh
- Lighter red skin color
- Flat round to flat oblong shape
- A little texture to skin, has tiny white spots all over it
- Shallow eyes
- Second highest yielding in 2021, highest yielding in 2020
- Chef's showed some hollow heart, may be better to harvest as large A's
- Culls are mostly knobs and misshapes but there wasn't many in comparison to 2020
- Tubers tend to sprout quickly
- Favorite tasting in 2019



		Marketable Distributio		% of Marketable Yield by Size Distribution		
Total larketable eld (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
242	36	181	25	15	75	10

#### MSAA161-1RY

- Michigan State University
- Dark red skin, yellow flesh
- Round shape with some oblong chef's
- Medium eyes
- Skin is very dark and needed to be washed to tell if it was red or purple
- Good size



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
213	83	121	9	39	57	4

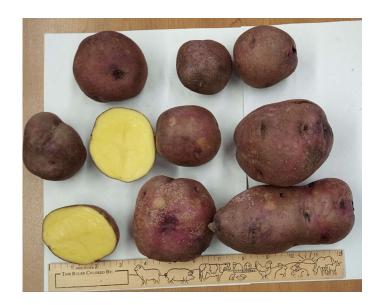
#### MSZ416-08RY

- Michigan State University
- Red skin, light yellow flesh
- Medium dark red skin, skin texture mutes the color
- Round, round shape with a few oblongs
- Few shallow eyes
- A lot of growth crack culls
- Good size
- A few starting to sprout when graded



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>	l	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
121	51	60	11	42	49	9



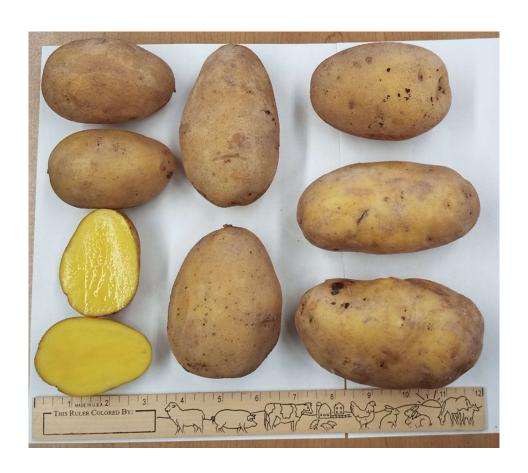


Baltic Rose MSAA161-1



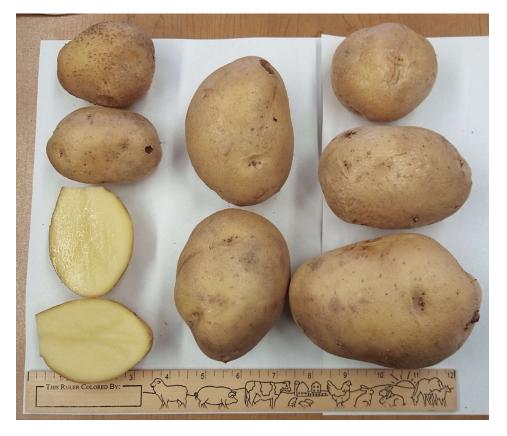
MSZ416-08RY

# White Skin Yellow Flesh Lines



#### AF6541-3

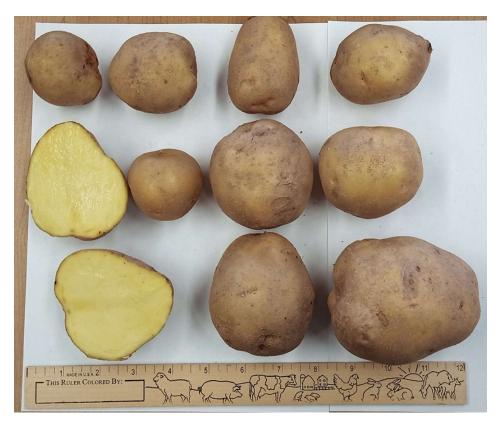
- University of Maine
- White skin, light yellow flesh
- Very shallow eyes
- Shape is oblong and round
- Good size, a lot of large A's and chef's



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
223	104	107	12	47	48	5

#### AF6542-16

- University of Maine
- White skin, yellow flesh
- Round to oblong shape
- On the smaller side
- Skin is a nice smooth white
- Few, medium eyes
- A few misshapes



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
154	14	112	28	9	73	18

#### MST252-1Y

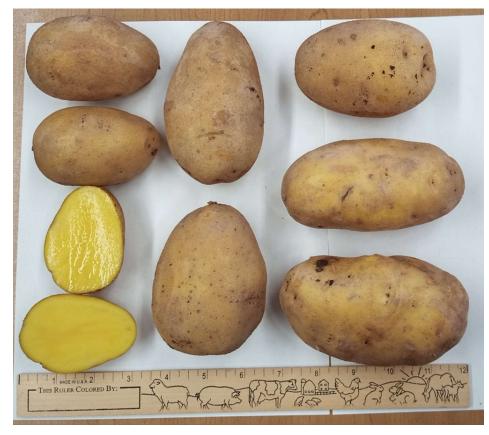
- Michigan State University
- White skin, yellow flesh
- Round shape with some slightly oblong
- Culls were mostly growth cracks
- Had a lot of bacterial soft rot issues as well
- Smooth skin
- Small A's



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
176	61	110	5	35	63	3

#### Natascha

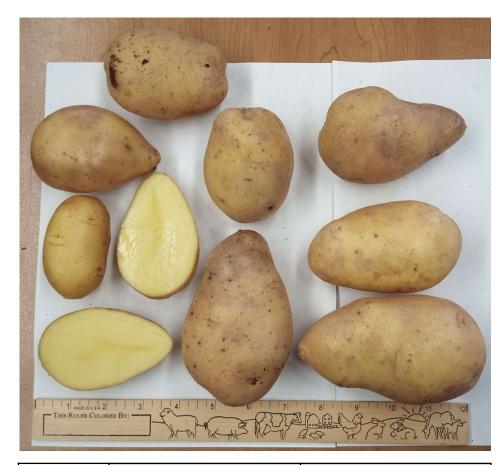
- Childstock Farm
- Bright white skin, dark yellow flesh
- Oblong to slightly round and flat shape, some points
- Skin is smooth
- Decent size, mostly good size A's, nice B's
- Culls are greeners and knobs
- Good yield, overall nice and it has done well in previous trials for yield and taste



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
197	51	125	21	26	64	11

### R203-1

- Cornell University
- White skin, light yellow flesh
- Oblong shape
- Eyes are raised and a little lumpy
- Mostly smooth skin
- Highest yielding this year
- Good size
- Culls were mostly greeners



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
246	124	108	14	50	44	6

#### R213-2

- Cornell University
- White skin, yellow flesh
- Flatter, slightly oblong shape
- Skin has a little texture
- Shallow eyes
- On the smaller side



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
154	8	118	27	5	77	18

# WAF13058-1

- University of Maine
- White skin, yellow flesh
- Round round shape.
- Smooth skin
- Eyes are shallow to medium
- Size is inconsistent
- Culls were mostly growth cracks and knobs
- Had a decent amount of scab



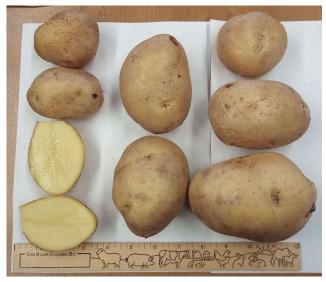
	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
178	73	90	16	41	50	9

#### Yukon Gold

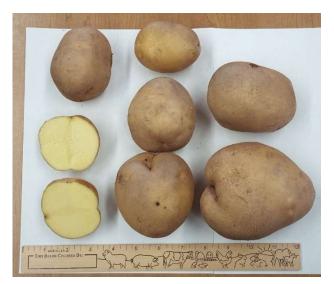
- Cornell University
- White skin, yellow flesh
- Skin had a lot of texture which muted the color
- Mostly round with some slightly flattened and oblong
- Good size, decent amount of Chef's and large A's
- Few culls, cracks and misshapes



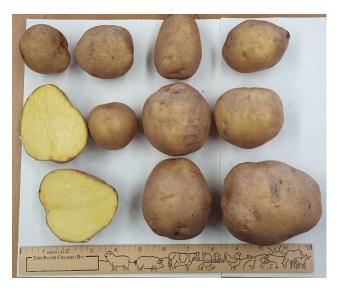
		f Marketable Distributio		% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
110	58	49	3	53	44	3



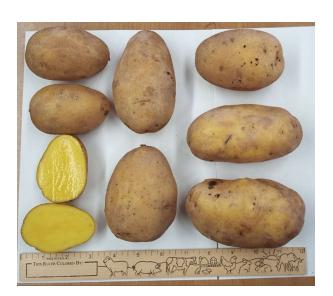
AF6541-3



MST252-1Y



AF6542-16



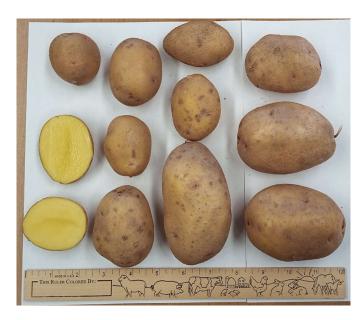
Natascha



R203-1



WAF13058-1



R213-2



Yukon Gold

# **Specialty Lines**



#### AF5412-3

- University of Maine
- Dark purple skin, starburst purple flesh
- Oblong shape similar to a russet, some points and lumps
- Some weird shapes present
- Sized up well, a lot of Chef's and large A's
- Deep eyes



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
216	149	61	5	69	28	3

#### AF5414-1

- University of Maine
- Dark red skin, rose red/purple flesh
- Consistently high yielding, some years highest yielding but generally excellent
- Mostly oblong shape, some flat some round
- Skin is fairly smooth
- Can be a little a little lumpy but not a major issue
- Good size range, Chef's are very large and A's are also nice
- One of the best tasting in 2018 and 2019
- Flesh stays a bright pink after cooking



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
196	76	110	10	39	58	5

### AW081124P/Y

- University of Wisconsin-Madison
- Dark purple skin, dark yellow flesh
- Very round shape
- Consistent shape and size
- On the smaller side, small A's and B's



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
217	8	158	51	4	73	24

#### MSAA101-1

- Michigan State University
- Dark red skin, pink flesh
- Variable shape, some round, some oblong, especially larger tubers
- Skin is really nice color
- Medium eyes
- Good size
- Lot's of large A's that are really nice



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
210	45	151	14	21	72	7

#### MSZ109-08PP

- Michigan State University
- Purple skin, dark purple flesh
- Round to slightly oblong shape
- A bit lumpy and a few misshapes
- Shallow to raised eyes
- Skinned badly on the grader
- Not super high yielding but a really nice potato



	Yield of Marketable Tubers by Size Distribution (cwt.)				% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)	
133	33	91	9	25	68	7	

#### MSZ413-6P

- Michigan State University
- Purple skin, white flesh
- Nice color
- Round and flat shape, some slightly oblong
- Good yielding, nice size range
- Very few culls
- Skinned a bit on the grader
- Shallow eyes
- A lot of large A's



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
143	11	122	9	8	86	7

## WI6050-3P/Y

- University of Wisconsin-Madison
- Dark purple skin, light yellow flesh
- Shape is variable, round rounds to oblongs
- Decent size, a lot of nice A's, not a lot of chef's
- No major cull issues



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
155	4	114	37	3	73	24



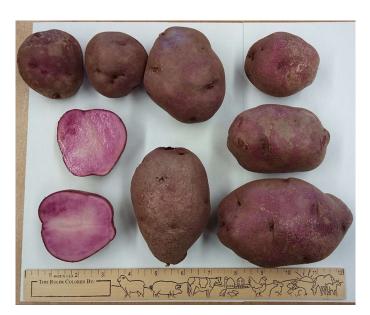
AF5412-3



AW081124P/Y



AF5414-1



MSAA101-1





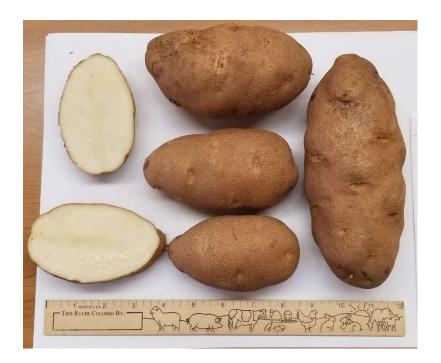


MSZ413-6P



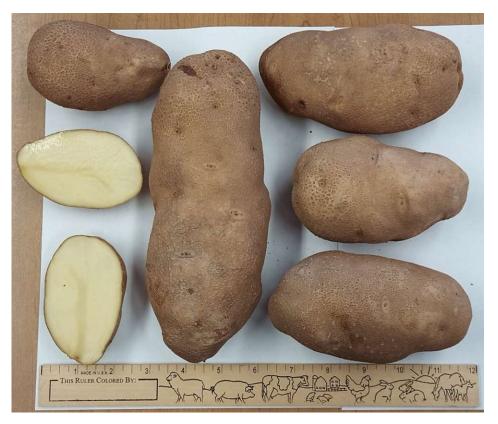
WI6050-3P/Y

### Russets



#### AF3362-1

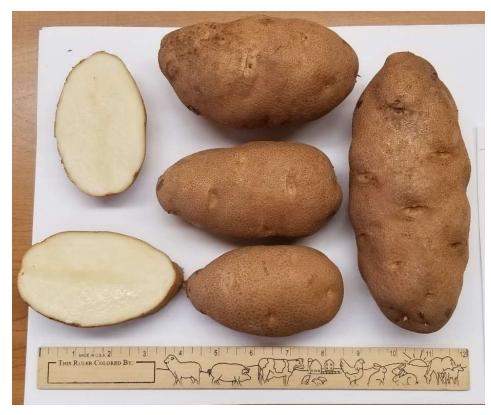
- Trade name is Caribou Russet
- University of Maine
- Oblong, round russet shape
- In 2018, had some issues with misshapes and internal issues but did well in 2019, 2020 and 2021
- Lots of chefs, large A's and large B's, consistent and nice
- Some growth cracks and a few knows and misshapes



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>		#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
162	112	45	5	69	28	3

#### AF6338-6

- University of Maine
- Oblong, round russet shape
- Very pretty looking
- Heavy russeting on the skin
- Some growth cracks, with some being very deep
- Huge size, a lot of chef's
- Hollow heart issues, especially in the rounder chef's
- Shallow eyes



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) <sup>1</sup>	l	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
163	98	57	9	60	35	5

Thank you to our farm collaborator Samascott Orchards And thank you to our seed suppliers: Ralph Child, Childstock Farms, Inc.

Dr. Greg Porter, University of Maine Potato Breeding Program Dr. Walter De Jong, Cornell University Potato Breeding Program Dr. David Douches, Michigan State University Potato Breeding Program Dr. Jeffrey Endelman, University of Wisconsin-Madison Plant Breeding and Plant Genetics

The Eastern New York Commercial Horticulture Program is a **Cornell Cooperative Extension Partnership between Cornell** University and the CCE Associations in the 17 Eastern New York counties.

