

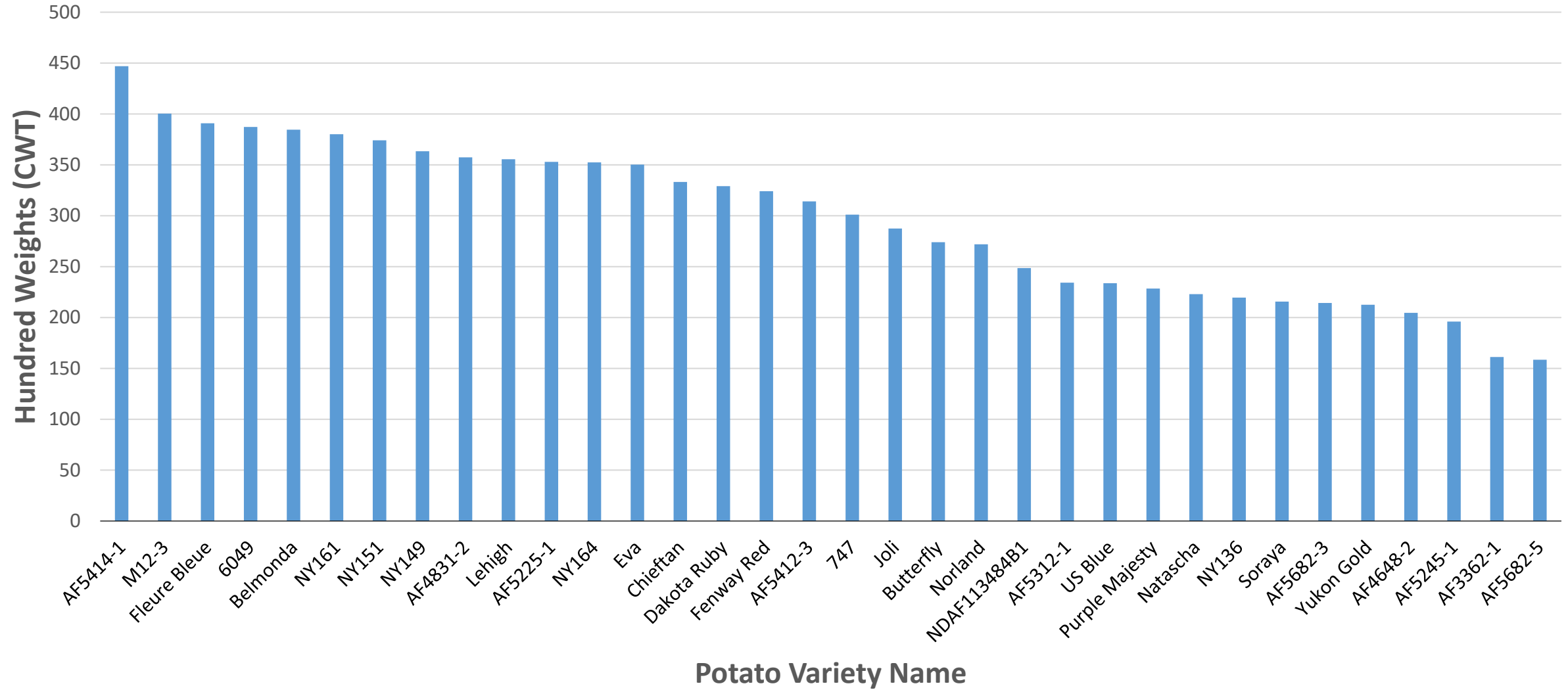


Cornell Cooperative Extension

Eastern NY Commercial Horticulture Program



Total Marketable Yield (Chefs, A's and B's)



Trial Information

- Schoharie County on a Barbour loam
- Conventional
- Row spacing: 40", in row spacing: 9"
- Planted May 17th
- Dryland plot
- Harvested November 26th and graded January 4th using grower grader with chains set at various lengths as seen in data

White Skin Lines

- AF4648-2
- 747
- AF5682-3
- Eva
- Joli
- NY 151



AF4648-2

- White skin, white flesh
- Very nice round shape
- Very uniform
- Mostly large A's with a few B's, not many chefs
- Heavily muted skin with some texture, some silver scurf
- Deep apical end eyes with some raised lenticels on other eyes.



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	23	144	38	11	70	19

NY 151

- White skin, white flesh
- Love the shape, round round
- Shallow to medium eyes
- Skin is smooth with little texture
- Few blemishes
- Bright white flesh
- Nice inside, no hollow heart
- Lots of chefs
- Fairly uniform



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt)¹	122	217	35	33	58	9

Eva

- White skin, white flesh
- Love the shape, round round to slightly flattened round
- Looks really good this year
- A tiny bit of sca
- Nice white skin, fairly bright
- A few cracks
- Few, shallow eyes



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) ¹	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
350	145	196	9	41	56	3

AF5682-3

- White skin, white flesh
- Nice bright white skin
- Fairly blemish free and smooth
- Medium eyes
- Firm tuber
- Bright white flesh
- Oblong shape
- A little scab present
- Large tubers
- Good potential



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	214	115	11	41	54	5

747

- White skin, white flesh
- Flat, round, slightly oblong shape
- Fair amount of misshapes, some knobs, some beaks, some dumbbells
- A fair amount of cracks
- Skin variable, some smooth and bright, some textured and muted, some russetting
- Few, shallow eyes



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) ¹	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
301	16	193	92	5	64	31

Joli

- White skin, white flesh
- Oblong, round shape
- Few, very shallow eyes
- Bright white skin, very smooth
- Attractive looking
- Nice white flesh
- Good potential



Total Marketable Yield (Cwt) ¹	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
287	56	174	57	20	60	20



747



Eva



AF4648-2



Joli



AF5682-3



NY 151

Red Skin Lines

- NY 164
- AF4831-2
- Chieftan
- Dakota Ruby
- Fenway Red
- NDAF113484B1
- Norland
- NY 136



NY 164

- Red skin, white flesh
- Light to medium skin, a little muted but not bad
- A little bit of scab and silver scurf
- Nice size and fairly uniform tubers
- Nice round to oblong shape
- Eyes are shallow to medium
- White flesh with a little stem end discoloration
- Few culls



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	105	214	33	30	61	9

AF4831-2

- Red skin, white flesh
- Medium to dark red skin
- Shape, most are oblong round
- Some decently sized chefs
- A little bit of silver scurf
- Nice bright white flesh
- Big size



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) ¹	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
357	58	234	65	16	65	18

NDAF 113484B-1

- Red skin, white flesh
- Nice medium to dark red skin
- Shape is nice
- Eyes are shallow but have a shoulder
- Culls mostly cracks
- Skin has a little texture due to silver scurf
- Good size, with decent chefs
- May have a good disease resistance package
- Would like to see it again



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	91	139	19	37	56	7

Dakota Ruby

- Purply-red skin, white flesh
- Fairly uniform
- Fairly deep eye, especially on the apical end
- Not a large variety, mostly A's
- Culls are mostly growth cracks
- Some silver scurf causing color muting
- Shape is oblong to some round
- Nice bright white flesh



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt)¹	36	226	67	11	69	20

Fenway Red

- Very light red skin, white flesh
- Round round shape, very nice
- Culls are mostly misshapes and greens
- Medium eyes with deep on apical end
- Firm flesh
- Bright white flesh
- Disappointed in the variable color, some pink, some medium red but overall light
- Good size



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	123	173	28	38	53	9

Norland

- Muted red skin, white flesh
- Lots of skin blemishes
- Oblong to round shape
- Medium eyes with deeper apical eyes
- Already soft



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	92	150	30	34	55	11

NY 136

- Muted red skin, white flesh
- Some scab and a little silver scurf
- Flesh is off white like a creamy white
- Large size
- Issue with cracking due to harvesting when cold
- Medium to deep eyes
- Mostly oblong with smaller tubers being more rounded



Total Marketable Yield (Cwt) ¹	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
220	97	100	23	44	46	10

Chieftan

- Light red, almost pink skin, white flesh
- Some scab
- Eyes are fairly deep
- Shape is oblong, slightly flattened
- Flesh is a nice, bright white
- Good size
- Skin color is slight muted, a little silver scurf



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	333	174	18	42	52	5



NY 136



NDAF113484B-1



AF4831-2



NY 164



Chieftan



Norland



Fenway Red



Dakota Ruby

Yellow Flesh Lines

- NY 161
- NY 149
- 6049
- AF5682-5
- AF5225-1
- Belmonda
- Butterfly
- Lehigh
- Natascha
- Soraya
- Yukon Gold



NY 161

- White skin with purple splash, yellow flesh
- Variable in shape, some oblongs, some rounds
- Culls are misshapes
- The purple splash around eyes is inconsistent, with maybe 30 to 40 percent have the purple
- Some silver scurf mutes the color even more
- Eyes are shallow to medium
- Deeper eyes have more purple color
- Nice dark yellow flesh, darker than Yukon Gold.
- A little skin texture, netting



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) ¹	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
380	122	212	46	32	56	12

NY 149

- Beige-y white skin, pale yellow flesh
- Lovely shape, mostly round with flattened rounds
- A little skin texture, some netting
- Some eyes have a slight pink to them
- Shallow to medium eye
- Fairly uniform
- Overall, an attractive potato



Total Marketable Yield (Cwt) ¹	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
363	57	268	39	16	74	11

AF5225-1

- Bright white skin, cream flesh
- A little bit of skin texture
- Mostly round
- Eyes are few and shallow
- Firm flesh
- Nice shape, nice skin color
- Few blemishes



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	104	224	25	29	64	7

AF5682-5

- Muted white skin, yellow flesh
- A lot of texture and netting to skin, muting color
- Eyes are fairly shallow
- Flattened oblong shape
- Internal issues, hollow heart and browning
- Some scab
- Lots of culls, knobs, misshapes and growth cracks



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) ¹	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
159	41	97	21	26	61	13

Lehigh

- White muted skin, pale yellow flesh
- Impressive size, a lot of chefs and large A's
- A little skin russeting
- Beautiful shape, mostly rounds
- Eyes are medium deep
- Muted skin, some silver scurf



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	172	174	9	48	49	3

Yukon Gold

- White skin, pale yellow flesh
- Nice potato
- Nice shape, round, slightly flattened
- Some pink around eyes
- Eyes are shallow to medium
- Some stem end discoloration in the flesh



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	212	98	9	50	46	4

Belmonda

- Nice bright white skin, dark yellow flesh
- Oblong, tear drop shaped
- Not big tubers
- Few blemishes
- Very few, shallow eyes with a few raised
- A few odd shapes
- Beautiful dark yellow skin
- Some texture due to silver scurf



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) ¹	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
385	23	263	99	6	68	26

Butterfly

- Yellow skin, nice yellow flesh
- High setting B type, lots of tubers
- Round to flat round, with a few oblongs
- A few tear shapes, some dumbbells
- A's are small
- Smooth skin with little blemishes
- Eyes are shallow and few



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	274	47	227	0	17	83

6049

- Dark red skin, butter yellow flesh
- Excellent shape, mostly round with a little oblong
- A few misshapes and knobs
- Medium to deep eyes
- Very few chefs and a lot of smaller A's
- A lot of doubles ended up as culls
- A little skin blemish
- Firm flesh



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	387	23	270	94	6	24

Soraya

- Bright yellow skin, dark yellow flesh
- A lot of misshapes, knobs, dumbbells
- Very shallow eyes with most raised, giving it a slightly lumpy look
- Beautiful skin with few blemishes
- Mostly oblong, long tubers with smaller being rounds
- Way too many misshapes to be completely culled out



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	61	131	23	28	61	11

Natascha

- Bright yellow skin, dark yellow flesh
- Smooth, clean skin with few blemishes
- Eyes are fairly shallow
- Very attractive potato
- Moist flesh
- Shape is oblong
- On the smaller side, lots of A's and B's
- Culls were mostly misshapes



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	4	119	100	2	53	45



NY 161



NY 149



AF5225-1



Lehigh



Belmonda



AF5682-5



Yukon Gold



Butterfly



6049



Soroya



Natascha

Specialty Lines

- AF5245-1
- AF5412-3
- AF5414-1
- Fleure Bleue
- M12-3
- Purple Majesty
- US Blue



AF5414-1

- Magenta-purple-red skin, rose red/purple flesh
- A really beautiful potato
- Medium to slightly deep eye
- Oblong but rounded
- Can be a little lumpy, like Chieftan
- Good size
- Firm flesh
- Fairly uniform



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	447	65	303	79	14	68
						18

AF5245-1

- Bright purple skin, bright white flesh
- Looks really nice and is uniform
- Mostly oblong round with some flattened tubers
- Eyes are deep, especially on the apical end but few
- A little scab and silver scurf



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	45	127	25	23	65	13

AF5412-3

- Blue skin, purple blue flesh
- Oblong with some knobs
- Fairly deep eyes with some raised lenticels
- Few B's
- Chefs are oblongs, A's are flat oblongs to round oblongs
- Flesh is purple blue with a flash of white on outside, very attractive
- Fair amount of silver scurf



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	314	147	33	43	47	11

Fleure Bleue

- Dark blue/purple skin, starburst medium dark purple with white ring
- Fingerling
- Long, thin shape with tapering at stem end
- Very shallow and small eyes
- Not very lumpy
- Culls are rattails and misshapes



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	35	135	220	9	35	56

US Blue

- Blue skin, with starburst blue flesh
- Fingerling
- Long, oblong round
- Big for a fingerling
- Lots of shallow eyes
- Some knobs and misshapes, bottlenecks
- Didn't run well through the grader, with some getting caught in the chains
- Muted blue skin with various issues
- Not the prettiest but a solid fingerling that will produce a decent amount of large tubers



Total Marketable Yield (Cwt) ¹	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
234	31	89	114	13	38	49

Purple Majesty

- Dark blue skin, dark purple flesh
- Smaller than US Blue but prettier
- Medium to slightly deep eyes
- No blemishes
- Some misshapes like dumbbells and pointed ends
- Flesh stays purple after cooking
- Fewer bumps



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) ¹	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
228	1	47	181	1	20	79

M12-3

- Dark blue/purple skin, starburst light purple flesh
- Skin stayed a muted color after washing with some scab and silver scurf
- Shape is round to flat round with a few slightly oblong
- Medium eye



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Total Marketable Yield (Cwt) ¹	71	295	35	18	74	9



AF5414-1



AF5245-1



M12-3



AF5412-3



Fleure Bleue



US Blue



Purple Majesty

Russets

- AF3362-1 (Caribou Russet)
- AF5312-1



AF3362-1

- Russet
- Trade name is Caribou Russet
- Didn't do well this year – nice tubers are nice but bad ones are very bad
- A little PVY, a little wireworm a little scab
- A lot of culls due to misshapes
- Some shallow, some raised eyes
- Some alligator hide
- Some internal issues, browning



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) ¹	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
161	83	65	14	51	40	8

AF5312-1

- Russet
- Some alligator hide
- Some knobs and tear shaped
- Around the eyes tends to be bright white
- Size is okay
- A little scurf
- Tubers have knobs
- Some growth cracks, which might be PVY
- Eyes are shallow but make them look lumpy



	Yield of Marketable Tubers by Size Distribution (cwt.)			% of Marketable Yield by Size Distribution		
Total Marketable Yield (Cwt) ¹	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
234	63	148	23	27	63	10



AF3362-1



AF5312-1

Thank you to our farm collaborators, Jake Hooper and Max Morningstar.

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Dr. Walter De Jong, Cornell University Potato Breeding Program

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.

