

Cornell Cooperative Extension Eastern NY Commercial Horticulture Program 2023 Potato Variety Trial

Data Tables

Chuck Bornt and Natasha Field





Variety	Source	Skin Color/Flesh Color	Total Marketable Yield (cwt)
MSBB371-1	University of Michigan	White Purple Splash/White	715
NDAF1414-3	University of Maine/USDA	Red/White	503
AF6689-4	University of Maine	White/White	494
MSCC282-2	University of Michigan	Purple/Purple	486
AF6340-6	University of Maine	Russet	451
Baltic Rose	Childstock Farm	Red/Yellow	395
AF5707-1	University of Maine	Russet	381
WAF14096-5	University of Wisconsin	White/Yellow	367
AF5819-2	University of Maine	White/White	343
R213-2	Cornell University	White/Yellow	328
Natascha	Childstock Farm	White/Yellow	312
AF6194-4	University of Maine	White/White	309
Satina	Fedco Seeds	White/White	295
AF5414-1	University of Maine	Red/Pink	293
MSCC553-1R	University of Michigan	Red/White	265
AF5412-3	University of Maine	Purple/Purple	240
Vivaldi	Fedco Seeds	White/Yellow	238
NDAF1223384-2	University of Maine/USDA	Red/White	229
AF5762-8	University of Maine	Russet	224
AF6694-1	University of Maine	Russet	191
NDAF113484B-1	University of Maine/USDA	Red/White	190
NY171	Cornell University	White Purple Splash/White	132
MSZ416-8RY	University of Michigan	Red/Yellow	128
NY178	Cornell University	White/White	115
CO10098-5Y	University of Maine	White/Yellow	66
MSAA182-3R	University of Michigan	Red/White	24

Planting Date: 5/9/23 Harvest Date: 10/25/23

Trial specifics: Row spacing = 34 inches In-row spacing = 9 inches Plot length = 56 feet

			Yield of Marketable Tubers by Size Distribution (Cwt)				Aarketable ribution (50	-	% of Marketable Yield by Size Distribution		
Variety	Skin/Flesh	Total Marketable Yield (Cwt)	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
	White Purple										
MSBB371-1	Splash/White	715	71	555	89	142	1110	179	10	78	13
NDAF1414-3	Red/White	503	37	428	37	75	856	75	7	85	7
AF6689-4	White/White	494	165	279	50	330	558	100	33	57	10
MSCC282-2	Purple/Purple	486	223	250	13	445	501	26	46	52	3
AF6340-6	Russet	451	166	245	41	331	489	82	37	54	9
Baltic Rose	Red/Yellow	395	41	323	32	82	646	63	10	82	8
AF5707-1	Russet	381	114	222	46	227	444	91	30	58	12
WAF14096-5	White/Yellow	367	15	296	57	30	591	113	4	81	15
AF5819-2	White/White	343	76	241	27	152	482	53	22	70	8
R213-2	White/Yellow	328	42	243	43	83	485	87	13	74	13
Natascha	White/Yellow	312	21	246	44	43	492	89	7	79	14
AF6194-4	White/White	309	71	221	17	143	442	33	23	71	5
Satina	White/White	295	94	171	29	189	341	59	32	58	10
AF5414-1	Red/Pink	293	21	225	48	42	449	96	7	77	16
MSCC553-1R	Red/White	265	59	194	13	117	388	25	22	73	5
AF5412-3	Purple/Purple	240	69	150	22	138	299	44	29	62	9
Vivaldi	White/Yellow	238	45	164	29	89	329	57	19	69	12
NDAF1223384-2	Red/White	229	16	182	31	31	365	61	7	80	13
AF5762-8	Russet	224	76	123	24	153	246	49	34	55	11

Table 2: Yield and Distribution of Yield by Size (Highest to Lowest Yield)

See next page for the rest of the varieties

Planting Date: 5/9/23 Harvest Date: 10/25/23

Trial specifics: Row spacing = 34 inches In-row spacing = 9 inches Plot length = 56 feet

				Yield of Marketable Tubers by Size Distribution (Cwt)			1arketable ribution (50	•	% of Marketable Yield by Size Distribution		
Variety	Skin/Flesh	Total Marketable Yield (Cwt)	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
AF6694-1	Russet	191	15	137	39	30	274	79	8	72	21
NDAF113484B-1	Red/White	190	19	153	18	37	307	35	10	81	9
	White Purple										
NY171	Splash/White	132	32	85	15	63	170	31	24	64	12
MSZ416-8RY	Red/Yellow	128	6	86	37	12	172	74	4	67	29
NY178	White/White	115	4	101	10	8	202	20	3	88	9
CO10098-5Y	White/Yellow	66	0	0	66	0	0	133	0	0	100
MSAA182-3R	Red/White	24	0	24	0	0	49	0	0	100	0

Table 2: Yield and Distribution of Yield by Size (Highest to Lowest Yield)

Planting Date: 5/9/23 Harvest Date: 10/25/23

Trial specifics: Row spacing = 34 inches In-row spacing = 9 inches Plot length = 56 feet

			Yield of Marketable Tubers by Size Distribution (Cwt)			Yield of Marketable Tubers by Size Distribution (50 lb bags)			% of Marketable Yield by Size Distribution		
Variety	Skin/Flesh	Total Marketable Yield (Cwt)	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
Specialty				•							
MSCC282-2	Purple/Purple	486	223	250	13	445	501	26	46	52	3
Baltic Rose	Red/Yellow	395	41	323	32	82	646	63	10	82	8
AF5414-1	Red/Pink	293	21	225	48	42	449	96	7	77	16
AF5412-3	Purple/Purple	240	69	150	22	138	299	44	29	62	9
MSZ416-8RY	Red/Yellow	128	6	86	37	12	172	74	4	67	29
Red Skin, White Fle	sh										
NDAF1414-3	Red/White	503	37	428	37	75	856	75	7	85	7
MSCC553-1R	Red/White	265	59	194	13	117	388	25	22	73	5
NDAF1223384-2	Red/White	229	16	182	31	31	365	61	7	80	13
NDAF113484B-1	Red/White	190	19	153	18	37	307	35	10	81	9
MSAA182-3R	Red/White	24	0	24	0	0	49	0	0	100	0
Russet					· · · ·						
AF6340-6	Russet	451	166	245	41	331	489	82	37	54	9
AF5707-1	Russet	381	114	222	46	227	444	91	30	58	12
AF5762-8	Russet	224	76	123	24	153	246	49	34	55	11
AF6694-1	Russet	191	15	137	39	30	274	79	8	72	21

Table 3: Yield and Distribution of Yield Sorted by Type of Potato

See next page for the rest of varieties

Planting Date: 5/9/23 Harvest Date: 10/25/23

Trial specifics: Row spacing = 34 inches In-row spacing = 9 inches Plot length = 56 feet

			Yield of Marketable Tubers by Size Distribution (Cwt)			Yield of Marketable Tubers by Size Distribution (50 lb bags)			% of Marketable Yield by Size Distribution		
Variety	Skin/Flesh	Total Marketable Yield (Cwt)	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (> 3")	#1 "A's" (> 2 1/2")	"B's" (< 2")	Chef's (%)	#1 "A's" (%)	"B's" (%)
White Skin, White I	Flesh										
MSBB371-1	White Purple Splash/White	715	71	555	89	142	1110	179	10	78	13
AF6689-4	White/White	494	165	279	50	330	558	100	33	57	10
AF5819-2	White/White	343	76	241	27	152	482	53	22	70	8
AF6194-4	White/White	309	71	221	17	143	442	33	23	71	5
Satina	White/White	295	94	171	29	189	341	59	32	58	10
NY171	White Purple Splash/White	132	32	85	15	63	170	31	24	64	12
NY178	White/White	115	4	101	10	8	202	20	3	88	9
White Skin, Yellow	Flesh										
WAF14096-5	White/Yellow	367	15	296	57	30	591	113	4	81	15
R213-2	White/Yellow	328	42	243	43	83	485	87	13	74	13
Natascha	White/Yellow	312	21	246	44	43	492	89	7	79	14
Vivaldi	White/Yellow	238	45	164	29	89	329	57	19	69	12
CO10098-5Y	White/Yellow	66	0	0	66	0	0	133	0	0	100

Table 3: Yield and Distribution of Yield Sorted by Type of Potato

Planting Date: 5/9/23 Harvest Date: 10/25/23

Trial specifics: Row spacing = 34 inches In-row spacing = 9 inches Plot length = 56 feet

Variety	Total Marketable Yield (Cwt)	Cull Total (cwt)*	Green (cwt)	Scab (cwt)	Cracks (cwt)	Mishapes /knobs (cwt)	Other (cwt)	Cull % of Total Yield
MSAA182-3R	24	78	0	0	48	31	0	76%
AF5707-1	381	33	0	33	0	0	0	8%
Satina	295	31	0	16	6	9	0	10%
MSZ416-8RY	128	15	0	0	11	0	4	11%
MSBB371-1	715	14	4	0	1	9	0	2%
Vivaldi	238	9	0	8	0	0	1	4%
AF6689-4	494	8	4	0	2	1	2	2%
NDAF113484B-1	190	7	0	0	7	0	0	4%
MSCC282-2	486	7	3	0	0	4	0	1%
AF5762-8	224	6	0	0	6	0	0	3%
AF5819-2	343	6	0	0	2	0	4	2%
NDAF1223384-2	229	6	0	0	5	1	0	3%
AF6340-6	451	6	0	3	0	2	0	1%
AF5412-3	240	6	2	0	0	1	3	2%
Baltic Rose	395	5	0	0	0	5	0	1%
Natascha	312	4	4	0	0	1	0	1%
AF6194-4	309	3	2	0	1	0	0	1%
AF6694-1	191	3	1	0	0	1	1	1%
WAF14096-5	367	2	2	0	0	1	0	1%
NY178	115	2	1	0	1	0	0	2%
NDAF1414-3	503	2	0	0	1	0	1	0%
NY171	132	2	0	0	0	2	0	1%
R213-2	328	2	1	1	0	0	0	0%
AF5414-1	293	1	0	0	1	0	0	0%
MSCC553-1R	265	0	0	0	0	0	0	0%
CO10098-5Y	66	0	0	0	0	0	0	0%

Table 4: Cull Information and Distribution (Highest to Lowest Cull Weight)

Planting Date: 5/9/23 Harvest Date: 10/25/23

Trial specifics: Row spacing = 34 inches In-row spacing = 9 inches Plot length = 56 feet

Table 5: Comments

Comments
Red skin, pink flesh. Good size. Oblong to slightly oblong shape. Few culls are cracks. One of
our favorites over several years of trials
Russet. Uniform. Good size. Oblong with great russet skin. Big scab issues, possibly seed piece
issues. Shallow eyes. Uniform size and shape. Firm and moist flesh.
Russet. Typical russet shape and skin. Size is okay, some nice big ones, but a lot of variation.
Mostly shallow eyes with a few raised ones. A few cracks. Biggest ones (1.2lb tuber) have
hollow heart but everything smaller was fine. Lots on the border between A and Chef size.
White skin, bright white flesh. Nice shape. Fairly smooth skin. Medium eyes. Very uniform. Lots
of large A's, good production. Round round shape. Very firm flesh. Had a small amount of PVY.
White skin, bright white flesh. Mostly oblong to slightly round shape. Size is decent, lots of
large A's and good size chef's. Smooth skin. Shallow eyes. Basically no culls. A tiny amount of
watercore. A small knob on the stem end which is a little odd.
Decent yield. Russet. Pretty smooth skin. Shallow eyes. Size is good, most are in the ideal
russet size. A little bit of scab. Internal browning in the large chef's, at the growing point end.
Bright white flesh.
Buff cream skin, dark yellow flesh. Variable shape. A's are round, chef's are oblong. Pink
splotches on the skin. Good size. Medium eyes. A little fusarium present. Very firm flesh.
Reddish-purple skin, bright white flesh. Oblong to round shape. Shallow eyes. Hardly any culls.
Not huge size, but decent producer.
Medium red skin, deep yellow flesh. Decent yield this year. Skin is smooth. Culls are knobs or
secondary small potatoes connected by roots. Eyes are shallow. Shape is mostly oblong. Very
uniform. Thick stems that stay attached sometimes.
Bad yield. All B's. Buff white skin, almost orange flesh. Very weird. Smooth skin.
So much scab, to the point where they are misshapen. No other notes since this is such a
problem.
Huge yield this year. Round round shape. White skin, slightly buff, mostly smooth. Shallow
eyes. Dark yellow flesh. Slight pink tinge to the eyes. Very uniform. A lot of A's, both large and
small, not a lot of chef's. A little watercore. Culls were almost entirely knobs.
Light purple skin, starburst purple flesh with a large white color core. Nice shape, round round.
Nice size. Overall yield was good. Medium to deep eyes. Culls are mostly greeners. A tiny bit of
scab.
Red skin, white flesh. A little texture to skin, medium to dark red. Round round shape. A little
bit of scab. Had some tubers that rotted in the bag. Few, shallow eyes. Basically no culls other
than the bad tubers.
Had some issues, scab, fusarium, cracks. Round round shape. Shallow eye. Some texture to the
skin. Red skin, buff cream flesh.

Table 5: Comments continued

Variety	Comments
	Bright white skin, dark yellow flesh. A little texture to the skin but mostly smooth. Oblong
Natasha	shape with a few that have pointed ends. Shallow eye. Very uniform. A lot of large A's, few
Natascha	chefs, lots of nice size B's. Culls are primarily misshapes or knobs but not many. Very firm flesh.
	Red skin, white flesh. Culls are cracks. Not huge size this year. Oblong round shape. Some
NDAF113484B-1	raised eyes, some shallow eyes.
	Light red skin, white flesh. Mostly oblong shape, teardrop shape. Culls are cracks. Skin is
NDAF1223384-2	smooth. Shallow eyes.
	Medium red skin, bright white flesh. Round round to slightly oblong shape. Some kind of rot
	issue, but high yielding despite it. Culls probably rotted out because very few. Uniform size and
NDAF1414-3	shape. Maybe some kind of stem end issue on the bad ones.
	Surprisingly bad yield considering how well they've produced in the past. Oblong shape. White
NY171	skin with purple blotch, bright white flesh. Firm. Some knobs and misshapes.
	Really nice looking. Oblong shape. White skin, white flesh. Decent size, but not high yielding.
NY178	Few, shallow eyes. Internal browning issues, possibly start of hollow heart.
	White skin, medium yellow flesh. Good size. Slightly oblong to flat shape. Shallow eyes. Very
R213-2	uniform in size and shape. Skin has a tiny bit of texture. Most eyes have a slight pink tinge.
NZ13-Z	Early white variety. Round to flat round shape. Lots of scab, some cracks, knobs and
	misshapes. Eyes are medium shallow. A little PVY. White skin, pale yellow flesh. A little bit of
Satina	water core and browning internally. Very firm flesh.
	White skin, buff, pale yellow flesh. Some scab. Early variety. Oblong shape. Very shallow eyes
Vivaldi	or a few raised ones. Smooth skin. Uniform. A tiny amount of PVY. Very moist flesh.
	White skin with purple splotches, pale yellow flesh. Smaller size, mostly A's and B's. Smooth
WAF14096-5	skin. Oblong, slightly flattened shape. Only culls were greens. Shallow eyes.