

Table 1: Summary of Varieties in Trial

Variety	Source	Skin/Flesh	Total Marketable Yield (Cwt)
R203-1	Cornell University	White/Yellow	246
Baltic Rose	Childstock Farm	Red/Yellow	242
AF6541-3	University of Maine	White/Yellow	223
AW081124PLY	University of Wisconsin-Madison	Purple/Yellow	217
AF5412-3	University of Maine	Purple/Purple Starburst	216
MSAA161-8	Michigan State University	Purple-Red/Yellow	213
MSAA101-1RR	Michigan State University	Red/Red	210
NDAF113484B-1	University of Maine	Red/White	209
AF6559-4	University of Maine	White/White	206
NY171	Cornell University	White with Purple/White	200
Natascha	Childstock Farm	White/Yellow	197
AF5414-1	University of Maine	Red/Pink	196
AF5819-2	University of Maine	White/White	192
WAF13058-1	University of Maine	White/Yellow	178
MST252-1Y	Michigan State University	White/Yellow	176
MSZ427-3R	Michigan State University	Red/White	173
NDAF102629C-4	University of Maine	White/White	169
AF5563-5	University of Maine	White/White	164
AF6338-6	University of Maine	Russet	163
AF3362-1	University of Maine	Russet	162
NY160	Cornell University	Pink/White	161
R15-4	Cornell University	White/White	157
WI6050	University of Wisconsin-Madison	Purple/Yellow	155
AF6542-16	University of Maine	White/Yellow	154
R213-2	Cornell University	White/Yellow	154
Q112-5	Cornell University	White/White	150
MSZ413-6P	Michigan State University	Purple/White	143
NDAF12143-1	University of Maine	Red/White	135
MSZ109-08PP	Michigan State University	Purple/Purple	133
MSZ416-08	Michigan State University	Red/Yellow	121
Yukon Gold	Locally Sourced	White/Yellow	110
NY118	Cornell University	Red/White	100
S74-2	Cornell University	Red/White	64

Planting date: 5/14/21 Harvest date: 11/1/21

Trial specifics: Row spacing = 30 inches In-row spacing = 12 inches Plot length = 80 feet

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

Variety	Skin/Flesh	Total Marketable Yield (Cwt)	Yield of Marketable Tubers by Size Distribution (Cwt)			Yield of Marketable Tubers by Size Distribution (50 lb bags)			% of Marketable Yield by Size Distribution		
			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" (%)
R203-1	White/Yellow	246	124	108	14	247	216	28	50	44	6
Baltic Rose	Red/Yellow	242	36	181	25	72	362	50	15	75	10
AF6541-3	White/Yellow	223	104	107	12	207	214	24	47	48	5
AW081124PLY	Purple/Yellow	217	8	158	51	16	317	102	4	73	24
AF5412-3	Purple/Purple Starburst	216	149	61	5	298	122	11	69	28	3
MSAA161-8	Purple-Red/Yellow	213	83	121	9	167	242	17	39	57	4
MSAA101-1RR	Red/Red	210	45	151	14	89	302	29	21	72	7
NDAF113484B-1	Red/White	209	77	128	4	153	257	9	37	61	2
AF6559-4	White/White	206	54	141	11	109	281	22	26	68	5
NY171	White with Purple/White	200	83	99	18	165	198	36	41	50	9
Natascha	White/Yellow	197	51	125	21	101	250	42	26	64	11
AF5414-1	Red/Pink	196	76	110	10	152	220	20	39	56	5
AF5819-2	White/White	192	77	108	8	153	215	16	40	56	4
WAF13058-1	White/Yellow	178	73	90	16	145	180	32	41	50	9
MST252-1Y	White/Yellow	176	61	110	5	121	220	10	35	63	3
MSZ427-3R	Red/White	173	54	111	8	108	222	16	31	64	5
NDAF102629C-4	White/White	169	36	115	18	72	230	35	21	68	10
AF5563-5	White/White	164	98	65	2	195	130	4	59	39	1
AF6338-6	Russet	163	98	57	9	195	114	18	60	35	5
AF3362-1	Russet	162	112	45	5	223	90	10	69	28	3
NY160	Pink/White	161	5	124	32	10	249	64	3	77	20

See next page for the rest of the varieties

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

Variety	Skin/Flesh	Total Marketable Yield (Cwt)	Yield of Marketable Tubers by Size Distribution (Cwt)			Yield of Marketable Tubers by Size Distribution (50 lb bags)			% of Marketable Yield by Size Distribution		
			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" (%)
R15-4	White/White	157	64	87	6	127	174	12	41	56	4
WI6050	Purple/Yellow	155	4	114	37	8	227	75	3	73	24
AF6542-16	White/Yellow	154	14	112	28	28	223	57	9	73	18
R213-2	White/Yellow	154	8	118	27	17	236	54	5	77	18
Q112-5	White/White	150	30	110	10	60	220	20	20	73	7
MSZ413-6P	Purple/White	143	11	122	9	22	244	19	8	86	7
NDAF12143-1	Red/White	135	21	106	9	42	212	17	16	78	6
MSZ109-08PP	Purple/Purple	133	33	91	9	66	182	17	25	68	7
MSZ416-08	Red/Yellow	121	51	60	11	101	120	22	42	49	9
Yukon Gold	White/Yellow	110	58	49	3	116	98	7	53	44	3
NY118	Red/White	100	17	73	10	34	145	20	17	73	10
S74-2	Red/White	64	0	44	20	0	88	39	0	69	31

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

Variety	Skin/Flesh	Total Marketable Yield (Cwt)	Yield of Marketable Tubers by Size Distribution (Cwt)			Yield of Marketable Tubers by Size Distribution (50 lb bags)			% of Marketable Yield by Size Distribution		
			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											
AW081124PLY	Purple/Yellow	217	8	158	51	16	317	102	4	73	24
AF5412-3	Purple/Purple Starburst	216	149	61	5	298	122	11	69	28	3
MSAA101-1RR	Red/Red	210	45	151	14	89	302	29	21	72	7
AF5414-1	Red/Pink	196	76	110	10	152	220	20	39	56	5
WI6050	Purple/Yellow	155	4	114	37	8	227	75	3	73	24
MSZ413-6P	Purple/White	143	11	122	9	22	244	19	8	86	7
MSZ109-08PP	Purple/Purple	133	33	91	9	66	182	17	25	68	7
Red Skin, White Flesh											
NDAF113484B-1	Red/White	209	77	128	4	153	257	9	37	61	2
MSZ427-3R	Red/White	173	54	111	8	108	222	16	31	64	5
NY160	Pink/White	161	5	124	32	10	249	64	3	77	20
NDAF12143-1	Red/White	135	21	106	9	42	212	17	16	78	6
NY118	Red/White	100	17	73	10	34	145	20	17	73	10
S74-2	Red/White	64	0	44	20	0	88	39	0	69	31
Red Skin, Yellow Flesh											
Baltic Rose	Red/Yellow	242	36	181	25	72	362	50	15	75	10
MSAA161-8	Purple-Red/Yellow	213	83	121	9	167	242	17	39	57	4
MSZ416-08	Red/Yellow	121	51	60	11	101	120	22	42	49	9
Russet											
AF6338-6	Russet	163	98	57	9	195	114	18	60	35	5
AF3362-1	Russet	162	112	45	5	223	90	10	69	28	3

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

Variety	Skin/Flesh	Total Marketable Yield (Cwt)	Yield of Marketable Tubers by Size Distribution (Cwt)			Yield of Marketable Tubers by Size Distribution (50 lb bags)			% of Marketable Yield by Size Distribution		
			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 Flesh											
NY171	White with Purple/White	200	83	99	18	165	198	36	41	50	9
AF6559-4	White/White	206	54	141	11	109	281	22	26	68	5
AF5819-2	White/White	192	77	108	8	153	215	16	40	56	4
NDAF102629C-4	White/White	169	36	115	18	72	230	35	21	68	10
AF5563-5	White/White	164	98	65	2	195	130	4	59	39	1
R15-4	White/White	157	64	87	6	127	174	12	41	56	4
Q112-5	White/White	150	30	110	10	60	220	20	20	73	7
White Skin, Yellow Flesh											
R203-1	White/Yellow	246	124	108	14	247	216	28	50	44	6
AF6541-3	White/Yellow	223	104	107	12	207	214	24	47	48	5
Natascha	White/Yellow	197	51	125	21	101	250	42	26	64	11
WAF13058-1	White/Yellow	178	73	90	16	145	180	32	41	50	9
MST252-1Y	White/Yellow	176	61	110	5	121	220	10	35	63	3
AF6542-16	White/Yellow	154	14	112	28	28	223	57	9	73	18
R213-2	White/Yellow	154	8	118	27	17	236	54	5	77	18
Yukon Gold	White/Yellow	110	58	49	3	116	98	7	53	44	3

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

Variety	Total Marketable Yield (Cwt)	Cull Total (cwt)	Cull Distribution				Cull % of Total Yield
			Green (cwt)	Scab (cwt)	Cracks (cwt)	Mishapes /knobs (cwt)	
AF6338-6	163	76	0	0	71	4	32%
WAF13058-1	178	42	4	9	27	3	19%
AF6541-3	223	25	0	25	0	0	10%
MSZ416-08	121	25	0	0	25	0	17%
AF5412-3	216	21	11	0	0	9	9%
AF3362-1	162	20	7	0	7	7	11%
R15-4	157	14	10	0	5	0	8%
R203-1	246	12	12	0	0	1	5%
AF5563-5	164	12	5	0	7	0	7%
MST252-1Y	176	10	0	0	10	0	5%
AF5414-1	196	9	7	0	0	2	4%
NDAF12143-1	135	9	6	0	0	1	6%
NDAF113484B-1	209	8	2	0	2	0	4%
Yukon Gold	110	8	1	7	0	0	7%
AF6559-4	206	8	8	0	0	0	4%
Natascha	197	8	6	0	0	3	4%
AF5819-2	192	7	7	0	0	0	4%
NY171	200	7	7	0	0	0	4%
MSAA101-1RR	210	6	5	0	1	0	3%
AW081124PLY	217	6	6	0	0	0	3%
Baltic Rose	242	6	3	0	0	3	2%
MSZ427-3R	173	6	2	0	4	0	3%
MSZ109-08PP	133	5	5	0	0	0	4%
AF6542-16	154	5	2	0	3	0	3%
MSAA161-8	213	5	5	0	0	0	2%
Q112-5	150	4	4	0	0	0	2%
NDAF102629C-4	169	3	8	0	0	0	2%
NY160	161	3	2	0	0	1	2%
NY118	100	3	3	0	0	0	3%
S74-2	64	2	2	0	0	0	3%
MSZ413-6P	143	2	0	0	1	0	1%
R213-2	154	1	0	0	0	0	0%
WI6050	155	0	0	0	0	0	0%

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Table 5: Comments

Variety	Comments
AF3362-1	Caribou Russet. We like this one a lot. Lighter russeting. Some growth cracks. Good size. A few knobs and misshapes.
AF5412-3	Purple skin, medium purple flesh with a white starburst. Oblong, bumpy shape. Some misshapes. Big size. Some teardrop shapes as well. Deep eyes. Consistent shape.
AF5414-1	Red skin, pink flesh. Mostly oblong round shape. Skin is smooth if muted. Dark red skin. No major cull issues. Chef's flatten out. Medium eyes.
AF5563-5	White skin, white flesh. Big size! Shallow eyes. Misshapes and cracks present. Mostly oblong and round shape. Hollow heart issues in the large chef's
AF5819-2	White skin. Nice looking. Large A's. Mostly round shape. Shallow, few eyes. Some stem end discoloration. Some PVY issues found.
AF6338-6	Russet. Very pretty looking. Heavy russeting on the skin. Some growth cracks, some are really deep. Huge size, a lot of chef's. Shallow eyes. Hollow heart issues, especially in the rounder chef's.
AF6541-3	White skin. Good size. Lot of large A's and chef's. Very shallow eyes. Oblong and round and long shape. Some scab issues.
AF6542-16	White skin. Round to oblong shape. On the smaller side. Skin is really nice smooth white. A few misshapes. Medium, few eyes.
AF6559-4	White skin, white flesh. Pretty round shape, slightly oblong. Very uniform. Excellent size. Chef's are nice but not too big. Medium eyes. Bright skin, pretty clean. A little bit of cracking.
AW081124PLY	Purple skin, yellow flesh. Very round shape. Consistent size and shape. On the smaller side, small A's and B's. Pale yellow flesh.
Baltic Rose	Red skin, yellow flesh. Some have sprouted. Decent size. Mostly oblong to round shape. Shallow eyes
M5AA101-1RR	Red skin, red flesh. Nice color on the skin. Good size. Some knobs. Shape is mostly oblong round. Medium eyes. Pretty consistent. Lots of large A's that are really nice. Few culls. Flesh is starburst purple/red
M5AA161-1	Purple-red skin, yellow flesh. Good size. Some growth cracks. Big size. Round round shape, with some chef's slightly flattened. Medium eyes.
MST252-1Y	Large size. Growth crack issues. White skin, yellow flesh. Round shape with some slightly oblong. Smooth skin. Bacterial soft rot issues. A's are small.
MSZ109-08PP	Purple skin, purple flesh. Nice looking. Round to slightly oblong shape. A little bit lumpy. A few misshapes. Not super high yielding but really nice. Shallow to raised eyes. Skinned badly on the grader.
MSZ413-6P	Purple skin, white flesh. Really nice smooth, very pretty skin. Shallow eyes. Good size. Mostly round shape. A lot of large A's. No major cull issues. Really nice overall.
MSZ416-08RY	Red skin, yellow flesh. Nice round shape. A lot of growth cracks. Decent size. A few starting to sprout. A few misshapes. Shallow eyes and few.
MSZ427-3R	Red skin, on the paler side. Good size. Shape is round with some flatter oblongs. Medium eyes. No major issues.
NDAF102629C-4	White skin, white flesh. Round round shape. Decent size, a lot of larger A's. No major cull issues. Skin is a buff white, a little bit of texture to it. Shallow eyes.

Table 5: Comments

Variety	Comments
NDAF113484B-1	Red skin, white flesh. Round shape, slightly oblong. Excellent size, a lot of chefs. Skin isn't bad, a little scruffy but pretty clean. Eyes are large and deep. Overall shape and size is really nice.
NDAF12143-1	Red skin, white flesh. Nice dark color. Medium eyes. Round shape. Similar to the other NDAF red line. On the smaller side. A few growth cracks but nothing major.
Natascha	White skin, yellow flesh. Oblong and flattened to round flat - more russet shape. Shallow eyes. Decent size. Can have issues on a traditional grader because of the shape. Very consistent size and shape. Had a little bit of stem end issues this year. A few misshapes.
NY118	Didn't yield well this year. Round shape. Red skin, white flesh. Medium eyes. Pretty uniform in size, mostly A's and some chefs.
NY160	Pale pink skin, white flesh. Skin is smooth. Eyes are shallow. Not a big potato. Some nice A's but a lot of B's. Round to slightly oblong shape. No major issues.
NY171	White skin with purple blotches, white flesh. Oblong flattened shape. Size is okay. Skin is smooth. Eyes are shallow. Catches on a traditional grader due to shape
Q112-5	White skin. We've liked it in previous years. Size is variable but a good mix. Flat and round shape. No major cull issues.
R15-4	Flat shape, oblong. A few cracks. White skin. Shallow eyes. Some of them are lumpy, shape is inconsistent. Skin has a little texture.
R203-1	Oblong shape. Nice white skin. Good size. A little lumpy due to raised eyes. Slightly tapered on one end, similar to russet shape. Culls mostly greeners. A little bit of scurf to the skin but mostly smooth
R213-2	White skin, yellow flesh. Kinda small but not bad. Flatter, slightly oblong shape. Skin is a little textured. Shallow eyes. No shape issues.
S74-2	Red skin. Nice shape, mostly rounds. On the smaller side, with some decent A's and a bunch of B's. Shallow eye.
WAF13058-1	White skin. Round round shape. Smooth skin. Eyes are shallow to medium. Size is inconsistent. Some growth cracks. Some bad scab. Some knobs. Too many culls due to scab
WI6050-3PLY	Purple skin, yellow flesh. Dark skin color. Decent size, a lot of nice A's, not many chef's. Medium eyes. Shape is variable, round rounds to oblongs. No major culls issues.
Yukon Gold	White skin, yellow flesh. Big, mostly flat, rounded. Nice shape. Some growth cracks and misshapes. Pretty standard.