

Cornell Cooperative Extension

Eastern NY Commercial Horticulture Program

2022 Potato Variety Trial

Data Tables

Chuck Bornt and Natasha Field

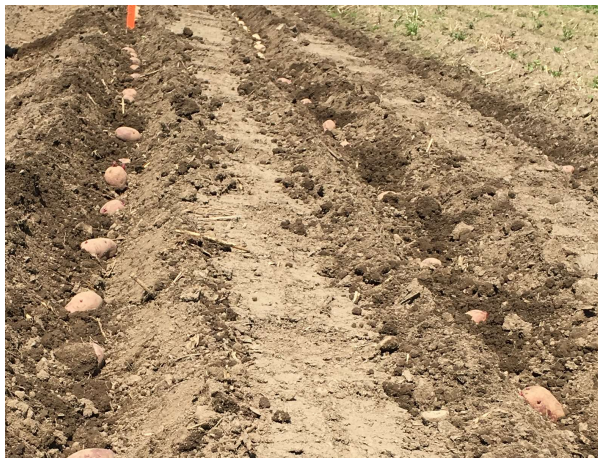


Table 1: Summary of Varieties in Trial

| Variety | Source | Skin/Flesh | Total Marketable Yield (Cwt) |
|----------------|-------------------------|-----------------------------|------------------------------|
| R213-2 | Cornell University | White/Yellow | 292 |
| R15-4 | Cornell University | White/White | 281 |
| AF6340-6 | University of Maine | Russet | 274 |
| WAF14096-5 | University of Wisconsin | White/Yellow | 269 |
| AF11611-2 | University of Maine | White-Pink Splotch/Yellow | 252 |
| NDAF12238Y-2 | University of Maine | Red/White | 251 |
| MSBB343-2Y | University of Michigan | White/Yellow | 236 |
| AF5707-1 | University of Maine | Russet | 235 |
| NDAF1489-4 | University of Maine | White-Purple Splotch/Yellow | 226 |
| NDAF113484B-1 | University of Maine | Red/White | 220 |
| AF5414-1 | University of Maine | Red/Pink | 218 |
| AF6194-4 | University of Maine | White/White | 202 |
| AF5762-8 | University of Maine | Russet | 201 |
| AF6289-2 | University of Maine | Red/White | 199 |
| WI3103-2Y | University of Wisconsin | White/Yellow | 197 |
| Caribou Russet | University of Maine | Russet | 196 |
| T61-4 | Cornell University | White/Yellow | 194 |
| AF5412-3 | University of Maine | Purple/Purple | 193 |
| WI5248-17Y | University of Wisconsin | White/Yellow | 189 |
| NY118 | Cornell University | Red/White | 188 |
| WI5234-5Y | University of Wisconsin | White/Yellow | 167 |
| MSCC553-1R | University of Michigan | Red/White | 164 |
| AF5819-2 | University of Maine | White/White | 164 |
| T59-1 | Cornell University | Red/White | 156 |
| NY171 | Cornell University | White-Purple Splotch/White | 154 |
| MSBB371-1YS | University of Michigan | White-Purple Splotch/White | 152 |
| MCAA182-2R | University of Michigan | Red/White | 148 |
| Natascha | Childstock Farm | White/Yellow | 139 |
| Baltic Rose | Childstock Farm | Red/Yellow | 123 |
| WI5240-2Y | University of Wisconsin | White/Yellow | 105 |

Planting Date: 4/29/22 Harvest Date: 10/11/22

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 | | | Yield of Marketable Tubers by | | | % of Marketable Yield by Size | | |
|----------------|-----------------------------|------------------------------|-------------------------------|---------------------|--------------|-------------------------------|---------------------|--------------|-------------------------------|--------------|-----------|
| | | | 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" (%) |
| R213-2 | White/Yellow | 292 | 47 | 223 | 23 | 93 | 446 | 45 | 16 | 76 | 8 |
| R15-4 | White/White | 281 | 108 | 165 | 8 | 216 | 330 | 16 | 38 | 59 | 3 |
| AF6340-6 | Russet | 274 | 109 | 152 | 13 | 219 | 303 | 26 | 40 | 55 | 5 |
| WAF14096-5 | White/Yellow | 269 | 51 | 216 | 2 | 101 | 432 | 4 | 19 | 80 | 1 |
| AF11611-2 | White-Pink Splotch/Yellow | 252 | 38 | 187 | 26 | 77 | 375 | 52 | 15 | 74 | 10 |
| NDAF12238Y-2 | Red/White | 251 | 58 | 174 | 18 | 116 | 349 | 37 | 23 | 70 | 7 |
| MSBB343-2Y | White/Yellow | 236 | 119 | 109 | 8 | 238 | 218 | 15 | 51 | 46 | 3 |
| AF5707-1 | Russet | 235 | 105 | 116 | 15 | 209 | 231 | 30 | 45 | 49 | 6 |
| NDAF1489-4 | White-Purple Splotch/Yellow | 226 | 30 | 177 | 19 | 61 | 354 | 37 | 13 | 78 | 8 |
| NDAF113484B-1 | Red/White | 220 | 64 | 147 | 9 | 127 | 294 | 18 | 29 | 67 | 4 |
| AF5414-1 | Red/Pink | 218 | 81 | 121 | 17 | 161 | 241 | 34 | 37 | 55 | 8 |
| AF6194-4 | White/White | 202 | 77 | 121 | 4 | 153 | 243 | 8 | 38 | 60 | 2 |
| AF5762-8 | Russet | 201 | 98 | 92 | 10 | 196 | 184 | 21 | 49 | 46 | 5 |
| AF6289-2 | Red/White | 199 | 68 | 125 | 7 | 135 | 250 | 13 | 34 | 63 | 3 |
| WI3103-2Y | White/Yellow | 197 | 42 | 136 | 18 | 84 | 272 | 37 | 21 | 69 | 9 |
| Caribou Russet | Russet | 196 | 146 | 43 | 8 | 291 | 87 | 15 | 74 | 22 | 4 |
| T61-4 | White/Yellow | 194 | 0 | 106 | 87 | 0 | 213 | 174 | 0 | 55 | 45 |
| AF5412-3 | Purple/Purple | 193 | 102 | 86 | 6 | 204 | 172 | 11 | 53 | 45 | 3 |
| WI5248-17Y | White/Yellow | 189 | 12 | 165 | 12 | 24 | 329 | 25 | 6 | 87 | 7 |
| NY118 | Red/White | 188 | 115 | 71 | 3 | 230 | 141 | 6 | 61 | 37 | 2 |
| WI5234-5Y | White/Yellow | 167 | 10 | 125 | 32 | 20 | 250 | 63 | 6 | 75 | 19 |

See next page for the rest of the varieties

Planting Date: 4/29/22 Harvest Date: 10/11/22

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 | | | Yield of Marketable Tubers by | | | % of Marketable Yield by Size | | |
|-------------|----------------------------|------------------------------|-------------------------------|---------------------|--------------|-------------------------------|---------------------|--------------|-------------------------------|--------------|-----------|
| | | | 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" (%) |
| MSCC553-1R | Red/White | 164 | 38 | 116 | 11 | 75 | 232 | 22 | 23 | 71 | 7 |
| AF5819-2 | White/White | 164 | 52 | 108 | 4 | 104 | 215 | 9 | 32 | 66 | 3 |
| T59-1 | Red/White | 156 | 24 | 120 | 12 | 48 | 240 | 25 | 15 | 77 | 8 |
| NY171 | White-Purple Splotch/White | 154 | 77 | 67 | 9 | 154 | 135 | 19 | 50 | 44 | 6 |
| MSBB371-1YS | White-Purple Splotch/White | 152 | 21 | 122 | 9 | 42 | 244 | 18 | 14 | 80 | 6 |
| MSAA182-2R | Red/White | 148 | 4 | 113 | 31 | 8 | 225 | 62 | 3 | 76 | 21 |
| Natascha | White/Yellow | 139 | 38 | 89 | 12 | 76 | 178 | 24 | 27 | 64 | 9 |
| Baltic Rose | Red/Yellow | 123 | 53 | 63 | 7 | 105 | 127 | 13 | 43 | 52 | 5 |
| WI5240-2Y | White/Yellow | 105 | 12 | 82 | 11 | 24 | 164 | 22 | 11 | 78 | 11 |

Planting Date: 4/29/22 Harvest Date: 10/11/22

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

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 | | | | | | | | | | | |
| AF5414-1 | Red/Pink | 218 | 81 | 121 | 17 | 161 | 241 | 34 | 37 | 55 | 8 |
| AF5412-3 | Purple/Purple | 193 | 102 | 86 | 6 | 204 | 172 | 11 | 53 | 45 | 3 |
| Baltic Rose | Red/Yellow | 123 | 53 | 63 | 7 | 105 | 127 | 13 | 43 | 52 | 5 |
| Red Skin, White Flesh | | | | | | | | | | | |
| NDAF12238Y-2 | Red/White | 251 | 58 | 174 | 18 | 116 | 349 | 37 | 23 | 70 | 7 |
| NDAF113484B-1 | Red/White | 220 | 64 | 147 | 9 | 127 | 294 | 18 | 29 | 67 | 4 |
| AF6289-2 | Red/White | 199 | 68 | 125 | 7 | 135 | 250 | 13 | 34 | 63 | 3 |
| NY118 | Red/White | 188 | 115 | 71 | 3 | 230 | 141 | 6 | 61 | 37 | 2 |
| MSCC553-1R | Red/White | 164 | 38 | 116 | 11 | 75 | 232 | 22 | 23 | 71 | 7 |
| T59-1 | Red/White | 156 | 24 | 120 | 12 | 48 | 240 | 25 | 15 | 77 | 8 |
| M5AA182-2R | Red/White | 148 | 4 | 113 | 31 | 8 | 225 | 62 | 3 | 76 | 21 |
| Russet | | | | | | | | | | | |
| AF6340-6 | Russet | 274 | 109 | 152 | 13 | 219 | 303 | 26 | 40 | 55 | 5 |
| AF5707-1 | Russet | 235 | 105 | 116 | 15 | 209 | 231 | 30 | 45 | 49 | 6 |
| AF5762-8 | Russet | 201 | 98 | 92 | 10 | 196 | 184 | 21 | 49 | 46 | 5 |
| Caribou Russet | Russet | 196 | 146 | 43 | 8 | 291 | 87 | 15 | 74 | 22 | 4 |

See next page for the rest of varieties

Planting Date: 4/29/22 Harvest Date: 10/11/22

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

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

| Variety | Skin/Flesh | Total Marketable Yield (Cwt) | Yield of Marketable Tubers by | | | Yield of Marketable Tubers by | | | % of Marketable Yield by Size | | |
|---------------------------------|-----------------------------|------------------------------|-------------------------------|---------------------|--------------|-------------------------------|---------------------|--------------|-------------------------------|--------------|-----------|
| | | | 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 | | | | | | | | | | | |
| R15-4 | White/White | 281 | 108 | 165 | 8 | 216 | 330 | 16 | 38 | 59 | 3 |
| AF6194-4 | White/White | 202 | 77 | 121 | 4 | 153 | 243 | 8 | 38 | 60 | 2 |
| AF5819-2 | White/White | 164 | 52 | 108 | 4 | 104 | 215 | 9 | 32 | 66 | 3 |
| NY171 | White-Purple Splotch/White | 154 | 77 | 67 | 9 | 154 | 135 | 19 | 50 | 44 | 6 |
| White Skin, Yellow Flesh | | | | | | | | | | | |
| R213-2 | White/Yellow | 292 | 47 | 223 | 23 | 93 | 446 | 45 | 16 | 76 | 8 |
| WAF14096-5 | White/Yellow | 269 | 51 | 216 | 2 | 101 | 432 | 4 | 19 | 80 | 1 |
| AF11611-2 | White-Pink Splotch/Yellow | 252 | 38 | 187 | 26 | 77 | 375 | 52 | 15 | 74 | 10 |
| MSBB343-2Y | White/Yellow | 236 | 119 | 109 | 8 | 238 | 218 | 15 | 51 | 46 | 3 |
| NDAF1489-4 | White-Purple Splotch/Yellow | 226 | 30 | 177 | 19 | 61 | 354 | 37 | 13 | 78 | 8 |
| WI3103-2Y | White/Yellow | 197 | 42 | 136 | 18 | 84 | 272 | 37 | 21 | 69 | 9 |
| T61-4 | White/Yellow | 194 | 0 | 106 | 87 | 0 | 213 | 174 | 0 | 55 | 45 |
| WI5248-17Y | White/Yellow | 189 | 12 | 165 | 12 | 24 | 329 | 25 | 6 | 87 | 7 |
| WI5234-5Y | White/Yellow | 167 | 10 | 125 | 32 | 20 | 250 | 63 | 6 | 75 | 19 |
| MSBB371-1YS | White-Purple Splotch/Yellow | 152 | 21 | 122 | 9 | 42 | 244 | 18 | 14 | 80 | 6 |
| Natascha | White/Yellow | 139 | 38 | 89 | 12 | 76 | 178 | 24 | 27 | 64 | 9 |
| WI5240-2Y | White/Yellow | 105 | 12 | 82 | 11 | 24 | 164 | 22 | 11 | 78 | 11 |

Planting Date: 4/29/22 Harvest Date: 10/11/22

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

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) | |
| AF5707-1 | 235 | 49 | 0 | 49 | 0 | 0 | 17% |
| AF5412-3 | 193 | 16 | 15 | 0 | 0 | 1 | 8% |
| MSBB343-2Y | 236 | 14 | 6 | 0 | 8 | 0 | 6% |
| Baltic Rose | 123 | 14 | 1 | 0 | 0 | 13 | 10% |
| Caribou Russet | 196 | 14 | 7 | 0 | 0 | 4 | 7% |
| WI3103-2Y | 197 | 13 | 11 | 0 | 0 | 0 | 6% |
| WI5234-5Y | 167 | 12 | 9 | 0 | 0 | 3 | 7% |
| NDAF113484B-1 | 220 | 10 | 8 | 0 | 2 | 0 | 4% |
| AF11611-2 | 252 | 9 | 8 | 0 | 0 | 1 | 3% |
| NY171 | 154 | 9 | 9 | 0 | 0 | 0 | 5% |
| AF5414-1 | 218 | 7 | 3 | 0 | 0 | 4 | 3% |
| NDAF1489-4 | 226 | 7 | 6 | 0 | 0 | 1 | 3% |
| MSCC553-1R | 164 | 7 | 0 | 0 | 0 | 7 | 4% |
| Natascha | 139 | 6 | 5 | 0 | 0 | 1 | 4% |
| WI5240-2Y | 105 | 5 | 5 | 0 | 0 | 0 | 5% |
| AF6340-6 | 274 | 4 | 4 | 0 | 0 | 0 | 1% |
| MSBB371-1YS | 152 | 4 | 4 | 0 | 0 | 0 | 3% |
| R213-2 | 292 | 3 | 3 | 0 | 0 | 0 | 1% |
| AF6194-4 | 202 | 3 | 3 | 0 | 1 | 0 | 2% |
| NDAF12238Y-2 | 251 | 3 | 2 | 0 | 1 | 1 | 1% |
| AF6289-2 | 199 | 3 | 2 | 0 | 0 | 1 | 2% |
| R15-4 | 281 | 3 | 1 | 0 | 2 | 0 | 1% |
| MSAA182-2R | 148 | 3 | 2 | 0 | 0 | 1 | 2% |
| AF5762-8 | 201 | 3 | 2 | 0 | 0 | 1 | 1% |
| T61-4 | 194 | 2 | 2 | 0 | 0 | 1 | 1% |
| AF5819-2 | 164 | 2 | 2 | 0 | 0 | 0 | 1% |
| WI5248-17Y | 189 | 0 | 0 | 0 | 0 | 0 | 0% |
| T59-1 | 156 | 0 | 0 | 0 | 0 | 0 | 0% |
| WAF14096-5 | 269 | 0 | 0 | 0 | 0 | 0 | 0% |
| NY118 | 188 | 0 | 0 | 0 | 0 | 0 | 0% |

*Some varieties had additional culls due to PVY, rhizoctonia or other factors that are included in the total culls but not in the listed columns

Planting Date: 4/29/22 Harvest Date: 10/11/22

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

Table 5: Comments

| Variety | Comments |
|----------------|--|
| AF11611-2 | Purple spotted skin. Oblong to round shape, a few misshape culls. Shallow eyes, medium dark yellow flesh. |
| AF5412-3 | Dark purple skin, muted. Big size, oblong round shape. Medium deep eyes with some raised. A few misshapes. Purple starburst flesh. |
| AF5414-1 | Medium dark skin. Pink flesh. Round to oblong shape. A few misshapes. |
| AF5707-1 | Russet. Good shape and size. Scab problem. Most of the scab is on the younger tubers. Eyes are very shallow. |
| AF5762-8 | Russet. Some knobs. Typical russet shape. Huge tubers. Typical russet skin. Good size. Hollow heart issues in the chef's. Bright white flesh. |
| AF5819-2 | Round slightly oblong shape. Bright white skin. Shallow eyes. Good size, lots of large A's. Had a bunch of rodent damage |
| AF6194-4 | White skin. Round to slightly oblong shape. Good size, a lot of large A's. Few shallow eyes. |
| AF6289-2 | Medium dark red skin. Oblong to round shape. Shallow eyes. Uniform in shape and size. A lot of large A's, not a ton of chef's. |
| AF6340-6 | Russet. Perfect russet shape. Good size, not too big, not too small. Shallow eyes. A's are larger, chef's are smaller and good for general market. Very uniform |
| Baltic Rose | Medium dark red skin. Round to oblong shaped. Good size. Some knobs and misshapes. Dark yellow flesh. Some sprouting. Little bit of skin texture. Biggest chef's may have hollow heart but most are solid. |
| Caribou Russet | Nice russet shape. Russeted skin. Good size. Corky browning going on in the larger tubers this year. Lots of chef's. |
| MSAA182-2R | Not huge. Beautiful dark red skin. Really nice round round shape. Shallow eyes. Not a lot of culls. Size is decent. Bright white flesh |
| MSBB343-2Y | Pretty very round, white skin. Yellow flesh. Good size. A lot of growth cracks. Little bit of skin texture. Pale yellow flesh. |
| MSBB371-1YS | White skin with purple blush around the eye. Round to flat round with some oblongs. Shallow eyes. Good size, a lot of good size A's not a lot of chefs. Creamy yellow flesh. |
| MSCC553-1R | Dark red skin. Round round shape. A few misshapes. Had some rodent damage. Good size. Big chef's and A's. Odd round eyes. Bright white flesh. |
| Natascha | Yellow skin. Oblong shape. Smaller size, lots of medium A's. Few chef's. Culls mostly greeners. Slightly raised eye. |
| NDAF113484B-1 | Medium red skin. Round round shape. A lot of large A's. Generally consistent good yielding. Shallow eyes. Bright white flesh. |
| NDAF12238Y-2 | Pretty medium dark red skin. Good size. Oblong to round shape. Medium eyes. Fairly uniform. |

Table 5: Comments

| Variety | Comments |
|------------|---|
| NDAF1489-4 | White skin with purple blush around the eye. Size is impressive. Some knobs. Round to flat round with some oblongs. Medium dark yellow flesh. Smooth skin. Lots of shallow eyes to raised eyes. A small amount of rhizoctonia issues on the stem end. |
| NY118 | Light red skin. Round round shape. Large size. Consistent producer even if the plants don't look good. Medium eyes. White flesh. |
| NY171 | White skin with purple splotch. Nice size. Oblong shape. Shallow eyes. Skin is smooth. Greeners can be hard to pick out because of the purple blotch. White skin |
| R15-4 | Bright white skin. Shallow eyes. Flat round to slightly oblong shape. Great yield. Good size, lots of chef's and large A's. |
| R213-2 | Very pretty. Few chef's, lots of large A's. Oblong shape. Buff colored skin. Shallow eyes. Slight pink eye. A few knobs. A little bit of sprouting in storage. Uniform in size and shape. Buff white/light yellow flesh. Overall, really nice |
| T59-1 | Light red skin. Good size. Oblong shape. Skin slightly textured. Medium eyes. Good amount of chef's and large A's. Bright white flesh. |
| T61-4 | Fingerling, very oblong and thin. Decent size. Catching on the grader. Looks nice. Buff white/yellow flesh similar to Yukon and firm. Very shallow eyes |
| W13103-2Y | White skin. Good size. Starting to sprout already in storage. Smooth skin. Yellow flesh. |
| W15234-5Y | Round shape to slightly oblong. Nice yellow skin. Fair amount of chef's. Buff skin. Culls are greeners. Shallow eyes. All potatoes had internal browning issues. Threw it out. Nice medium yellow flesh. |
| W15240-2Y | Shallow eyes, few. Mostly oblong. Nice A's. Stem end discoloration probably rhizoctonia. Most culls were green. Internal browning issues. Medium yellow flesh. |
| WAF14096-5 | Round round shape. Good size, lots of decent size A's. Pink eye, white skin. Skin has a little texture to it. Most tubers sprouting in storage. Shallow eye. Yellow flesh. |
| W15248-17Y | Round round shape. Skin has some texture. Mostly A's, very few chefs. Yellow flesh. |