

2022 OHIO POTATO GERMPLASM EVALUATION REPORT

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IN COOPERATION WITH
THE
NORTHEAST REGIONAL PROJECT (NE-1731)



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
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OHIO POTATO GERMPLASM EVALUATIONS - 2022

Summary

Ohio cooperates with private and public breeders in the U.S. and elsewhere in evaluating varieties and experimental lines of fresh and processing potatoes. A total of one hundred-twenty distinct varieties and experimental lines developed in two breeding programs were evaluated in 2022 (Table 1). Entries were placed into one of four experiments completed at the Ohio Agricultural Research and Development Center at The Ohio State University (OARDC) in Wooster, Ohio. The experiments are the Northeast Regional Project 1731 (NE-1731), Triple Observation (OBT), Double Observation (OBD) and Single Observation (OBS). Named varieties were included in one study, and numbered entries in four studies. Entries were contributed by breeding programs in Maine (ME) and New York (NY). Entries are listed in Table 2 and include a total of one hundred-nine varieties contributed by ME, three by NY, and eight varieties as standards.

The studies were established to evaluate the growth and market traits of each entry when grown under non-irrigated conditions in Ohio. The fact that the trials at OARDC are not irrigated tends to affect the performance of individual entries. Marketable yield of six varieties for 2012-2022 at OARDC are shown in Figure 1.

Procedures

Planting, Stand Establishment and Cultural Practices

Seed potatoes were cut on April 26-27, 2022 and allowed to cure under recommended temperature and humidity conditions. Plots were established on May 2, 2022. All entries in the NE-1731 experiment were replicated three times. Entries in the Observation studies were replicated once, twice or three times depending on the study. Percent stand was recorded at 4 and 5 weeks after planting.

Table 3 and Figure 2 contain plot management and climatic data for the study site, located on a well-drained Wooster silt loam. Pest, weed, and disease pressure were minimized using procedures and materials consistent with local commercial practices, including weekly pesticide applications. Vine kill was applied on September 9, 2022.

Crop Maturity, Yield and Quality

Weeks 6-10 after planting, plots were inspected 3-4 days per week to record the first date when at least 50% of plants in a plot were flowering. The average flowering date was calculated across plots for each entry. First plot to reach 50% flower was June 18 and considered Day 0 of maturity period. Between weeks 11-18 after planting, visually estimated the percentage of senescence in each plot 13 times and calculated the average date for each entry when at least 75% was reached. Maturity period was calculated from flowering to vine kill to be 83 days. Maturity period was split into 3 categories: early (0-27 days), mid (28-55 days), late (56+ days). Average dates and maturity data presented in Table 4.

The center 10' of each 30' plot in the NE-1731 and Observation trials were harvested on September 22-23, 2022. Tubers were initially placed in a barn under ambient conditions until September 29, 2022 and were then transferred to humidified refrigerated (50°F) storage.

On September 29, 2022, tubers were graded. At grading, the total weight of tubers produced by each genotype (across multiple plots, if present) was recorded. The entire harvested weight of each genotype was retained and graded for the NE-1731 and Observation plots. The weight of tubers in the A-size (US #1), B-size, and cull categories was recorded. These weights were also expressed as percentages of the weight of the graded

potatoes, and percentages were then applied to the total weight of the potatoes harvested for each genotype to calculate its marketable yield (cwt/A).

After grading, tubers were retained for internal and external quality ratings and chipping quality evaluations. Tubers set aside for quality ratings and for chipping were retained in humidified refrigerated (50°F) storage until October 18, 2022.

Tubers were rated for internal and external quality on October 4-November 1, 2022. Ten randomly selected, A-size tubers, collected at grading, were scored for tuber shape, skin and flesh color, surface texture, eye depth, general appearance, and the presence or absence of hollow heart, brown center, internal necrosis, and vascular discoloration using accepted protocols. (See Tuber Data Rating System on p.29). Tubers with colored skins (reds, purples, pinks) or colored flesh (yellows, pinks) were further rated using a Sherwin-Williams color fan deck. Two to three tubers were compared against paint chips to determine the best color match. Digital images representing internal and external quality of each NE-1731 genotype and any Observation genotypes with colored skins or colored flesh were recorded.

Chipping Quality Evaluation

Tubers were held in refrigerated humidified storage (50°F) until October 18, 2022. They were removed and held under ambient conditions (approx. 70-73°F) until being processed on October 19-20, 2022.

Chipping quality evaluation began with measurements of specific gravity on October 13-14, 2022. Eight pounds of potatoes were placed in a hydrometer. Tuber and water temperatures and raw specific gravity was recorded. Specific gravity data was adjusted using correction factor values of either -0.0011, -0.0020 or -0.0029 as indicated by the SNAC International (See Correction Table for Specific Gravity on page 30).

On October 19 and 20, a subset of four potatoes was selected and peeled using a Rotato Express electric potato peeler or by hand for all NE-1731 entries and non-colored skin (browns, tans, buffs, creams, whites) or flesh (whites, creams) entries in OBT, OBD and OBS. Peeled potatoes were sliced to a thickness of 0.049-0.051 inches using a Hobart meat slicer (Model 410). Slices were rinsed in cold water and 20 slices fried in a Commercial Pro Model CPF32 electric fryer containing corn oil donated by Shearer's Foods, Inc. at 177-178°C (350-352°F) for approximately 3:00 minutes. After frying, the sample was visually evaluated for color using color standards in the Potato Chip Color Reference Chart published by the Snack Food Association. Chips that are very light in color are scored "1" and very dark chips are scored "6". The number of chips out of twenty with blister(s) greater than 1 cm (0.39 in) in diameter was recorded.

Results

Yield, tuber characteristics, and chipping quality data are presented in Tables 5-11. Total yield and US #1 yield averaged 281 and 231 (cwt/A) across all studies respectively, with a range of 101-452 (total) and 55-416 (US #1). Average total yield in the NE-1731 study was 331 cwt/A among varieties and 330 cwt/A among the selections, with a study range of 192-447 cwt/A. Of the 120 entries evaluated, overall tuber appearance was rated poor-fair (scale rating of 1-3), fair-good (scale rating of 4-6), and good-excellent (scale rating of 7-9) in 5, 81, and 34 entries, respectively.

1. Entries having an overall appearance rating of ≥ 7 (good-excellent) at grading:

- NE-1731: Katahdin, Kennebec, Superior, AF 5819-2, AF 5931-1, AF 5933-4, MSAFB 609-12, NY 163, NY 165
- Triple Observation: AF 5973-3, AF 6165-9, AF 6522-1, AF 6526-7, AF 6541-3, AF 6550-2, AF 6551-4
- Double Observation: AF 6618-2, AF 6668-3, AF 6680-2, AF 6694-1, AF 6717-1, AF 6735-2, NDAF

14188-5

- Single Observation: AF 6872-11, AF 6883-4, AF 6888-9, AF 6888-15, AF 6889-4, AF 6892-6, AF 6903-3, AF 6926-8, AF 6969-3, AF 6979-3, NDAF 1710Y-1
2. Entries having an overall appearance rating of ≥ 7 (good-excellent) at grading and marketable yield \geq the study average:
- NE-1731: Katahdin, AF 5819-2, AF 5931-1, AF 5933-4, MSAFB 609-12, NY 165
 - Triple Observation: AF 5973-3, AF 6165-9, AF 6522-1, AF 6526-7, AF 6550-2, AF 6551-4
 - Double Observation: AF 6680-2, AF 6735-2, NDAF 14188-5
 - Single Observation: AF 6926-8, AF 6969-3
3. Entries having a chip score of ≤ 3 :
- NE-1731: Atlantic, Snowden, AF 5819-2, AF 5931-1, AF 5933-4, CO 10098-5W/Y, MSAFB 609-12, MSAFB 635-15, NY 163, NY 165
 - Triple Observation: AF 5973-3, AF 6165-9, AF 6200-7, AF 6206-5, AF 6526-7, AF 6541-3, AF 6543-2, AF 6550-2, AF 6551-4, AF 6567-4, AF 6601-2, AF 6603-5, WAF 16107-2
 - Double Observation: AF 6618-2, AF 6552-3, AF 6655-1, AF 6664-8, AF 6669-10, AF 6671-10, AF 6675-1, AF 6680-2, AF 6687-3, NDAF 14188-5, WAF 17045-2, WAF 17049-2
 - Single Observation: AF 6872-11, AF 6876-18, AF 6878-22, AF 6880-9, AF 6881-4, AF 6883-4, AF 6883-8, AF 6886-3, AF 6892-6, AF 6894-5, AF 6894-12, AF 6898-1, AF 6901-8, AF 6908-2, AF 6926-8, AF 6951-8, AF 6952-6, AF 6957-10, AF 6978-1, AF 6980-1, AF 6981-4

Table 1. Breeding programs participating in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Number	Program	Genotype Codes	2022 experiments				Total
			NE-1731	Triple Observation	Double Observation	Single ¹ Observation	
1	Univ. Maine	AAF, AF, CO, MSAFB, NDAF, WAF	12	23	24	50	109
2	Cornell Univ.	NY	3				3
3	Various	named	8				8
	Total		23	23	24	50	120

¹ Refers to number of single row replicates. All other experiments contained two (Double Observation) or three (NE-1731, Triple Observation) replicates.

Table 2. Varieties and experimental lines planted in the potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

NE-1731	Experiments			Single Observation
	Triple Observation	Double Observation		
1 Atlantic	24 AAF 11546-3	47 AF 6618-2	71 AF 6867-1	95 AF 6903-3
2 Chieftain	25 AF 5973-3	48 AF 6652-3	72 AF 6868-6	96 AF 6907-15
3 Dark Red Norland	26 AF 6165-9	49 AF 6655-1	73 AF 6871-4	97 AF 6908-2
4 Katahdin	27 AF 6200-4	50 AF 6664-8	74 AF 6871-14	98 AF 6908-7
5 Kennebec	28 AF 6200-7	51 AF 6664-9	75 AF 6872-11	99 AF 6911-4
6 Snowden	29 AF 6206-3	52 AF 6665-3	76 AF 6876-18	100 AF 6926-8
7 Superior	30 AF 6206-5	53 AF 6668-3	77 AF 6877-12	101 AF 6930-1
8 Yukon Gold	31 AF 6522-1	54 AF 6669-10	78 AF 6878-15	102 AF 6932-4
9 AF 5280-5	32 AF 6526-7	55 AF 6671-10	79 AF 6878-18	103 AF 6932-6
10 AF 5819-2	33 AF 6541-3	56 AF 6675-1	80 AF 6878-22	104 AF 6938-4
11 AF 5931-1	34 AF 6543-2	57 AF 6680-2	81 AF 6880-9	105 AF 6942-5
12 AF 5933-4	35 AF 6550-2	58 AF 6684-9	82 AF 6881-4	106 AF 6951-8
13 AF 6194-4	36 AF 6551-4	59 AF 6687-3	83 AF 6883-4	107 AF 6952-6
14 AF 6289-2	37 AF 6552-2	60 AF 6692-1	84 AF 6883-8	108 AF 6955-1
15 CO 10098-5W/Y	38 AF 6567-4	61 AF 6693-1	85 AF 6886-3	109 AF 6956-8
16 CO 15205-4R	39 AF 6575-6	62 AF 6694-1	86 AF 6888-9	110 AF 6957-10
17 CO 15211-1R	40 AF 6601-2	63 AF 6694-8	87 AF 6888-15	111 AF 6963-1
18 MSAFB 609-12	41 AF 6603-5	64 AF 6705-2	88 AF 6889-4	112 AF 6963-8
19 MSAFB 635-15	42 NDAF 141Y-3	65 AF 6717-1	89 AF 6892-6	113 AF 6965-5
20 NDAF 113484B-1	43 NDAF 1489-4	66 AF 6735-2	90 AF 6894-5	114 AF 6969-3
21 NY 163	44 NDAF 12238Y-2	67 NDAF 14188-5	91 AF 6894-12	115 AF 6978-1
22 NY 165	45 WAF 14096-5	68 NDAF 14280CB-1	92 AF 6896-1	116 AF 6979-3
23 NY 171	46 WAF 16107-2	69 WAF 17045-2	93 AF 6898-1	117 AF 6980-1
		70 WAF 17049-2	94 AF 6901-8	118 AF 6981-4
				119 NDAF 1710Y-1
				120 NDAF 1727Y-1

Figure 1. Yield of marketable, A-size tubers for 6 varieties grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2012-2022.

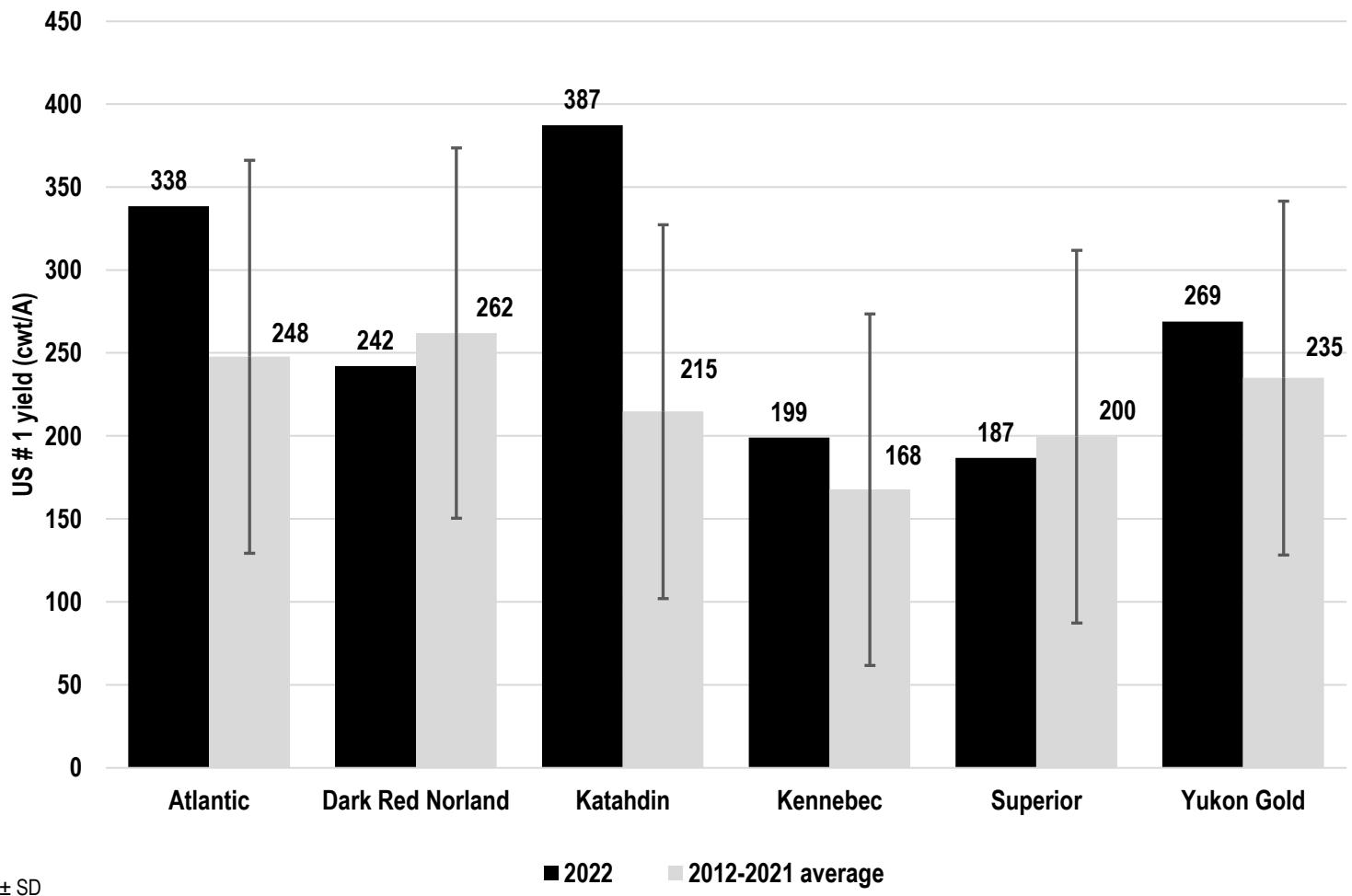
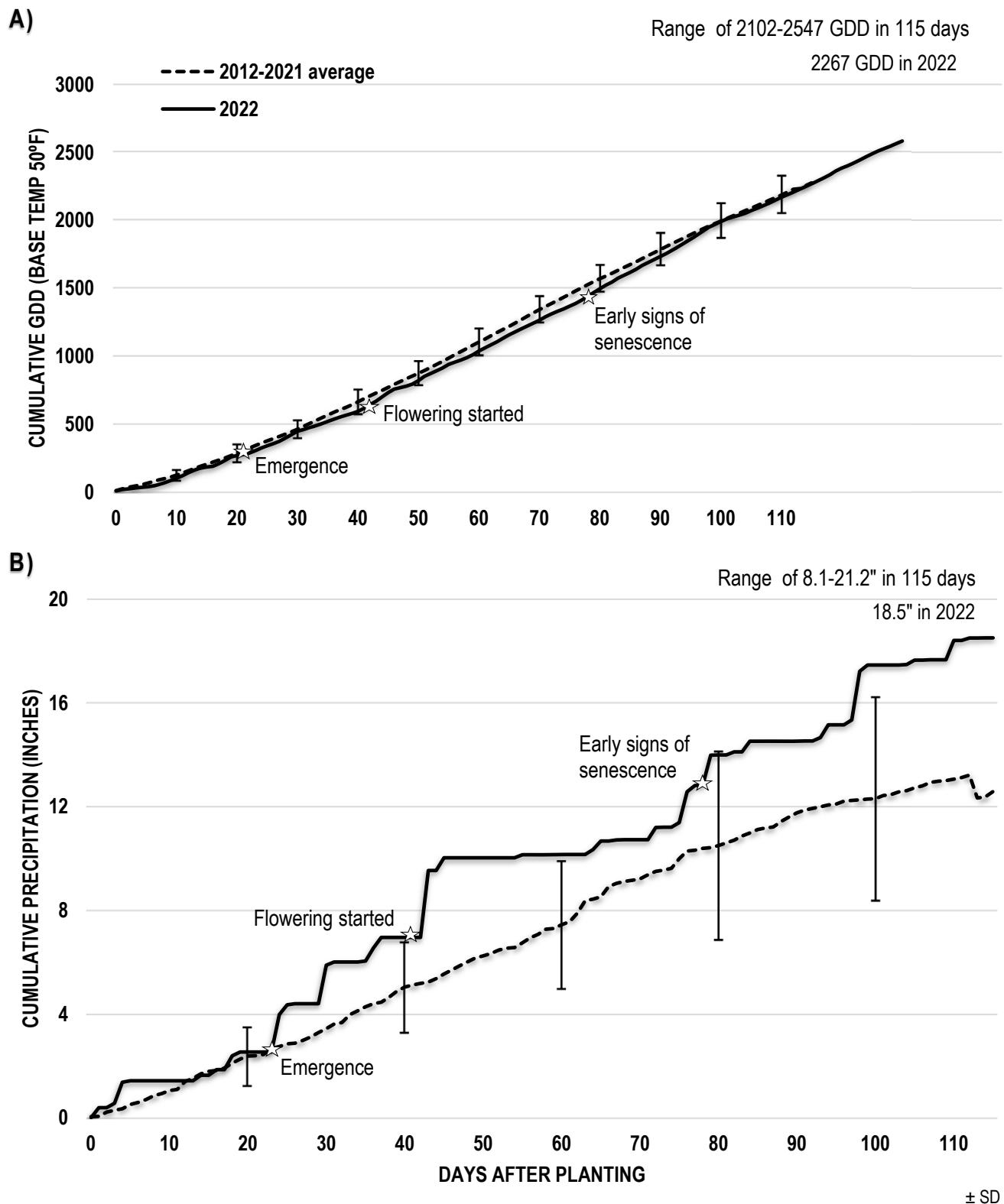


Table 3. Cultural, nutrient, and pest management practices for the potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Date planted	May-2
Date vine kill	Sep-9
2021 main crop	Fallow
Spacing (ft.) within, between row	1 x 3.6
Plot width, length (ft.)	3.6 x 30
Soil conditions at planting	Moist
Irrigation (inches)	None
Dates hilled	13-Jun
	21-Jun

	Date	Product	Rate (A)
Fertilizer	May-2	10-20-20	400 pounds
Insecticide	May-2	Admire	8 ounces
Herbicide	May-1	Dual Magnum	2 pints
		Sencor	1 pound
Cover Sprays	Jun-9	Bravo	1.5 pints
		Radiant	8 ounces
	Jun-23	Quadris	6 ounces
	Jun-30	Manzate	2 pounds
		Warrior	1.5 ounces
	Jul-7	Bravo	1.5 pints
		Coragen	5 ounces
	Jul-14	Quadris	6 ounces
	Jul-21	Bravo	1.5 pints
		Warrior	1.9 ounces
	Jul-28	Gavel	2 pounds
	Aug-4	Quadris	8 ounces
	Aug-11	Bravo	1.5 pints
		Radiant	10 ounces
	Aug-18	Miravis Prime	10 ounces
	Aug-25	Bravo	1.5 pints
Vine kill	Sep-9	Interline	21 ounces

Figure 2. Historical A) cumulative growing degree days (GDD) and B) cumulative precipitation for potato germplasm evaluations at OSU-OARDC in Wooster, OH in 2012-2022 from planting through 115 days after planting. GDD was calculated using the Baskerville-Emin method¹.



¹ Baskerville, G. L.; Emin, P. 1969. Rapid estimation of heat accumulation from maximum and minimum temperatures. Ecology 50:514-517.

Table 4. Estimated dates to flowering, senescence and maturity for entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	Flower ¹	Senescence ²	Maturity ³	Entry	Flower	Senescence	Maturity
1 Atlantic	18-Jun	6-Sep	L	32 AF 6526-7	18-Jun	1-Sep	L
2 Chieftain	27-Jun	27-Aug	L	33 AF 6541-3	20-Jun	18-Aug	L
3 Dark Red Norland	19-Jun	11-Aug	M	34 AF 6543-2	20-Jun	27-Aug	L
4 Katahdin	23-Jun	6-Sep	L	35 AF 6550-2	21-Jun	4-Sep	L
5 Kennebec	23-Jun	28-Aug	L	36 AF 6551-4	21-Jun	NA	L
6 Snowden	21-Jun	NA	L	37 AF 6552-2	25-Jun	NA	L
7 Superior	19-Jun	17-Aug	L	38 AF 6567-4	18-Jun	NA	L
8 Yukon Gold	27-Jun	28-Aug	L	39 AF 6575-6	21-Jun	24-Aug	L
9 AF 5280-5	18-Jun	11-Aug	M	40 AF 6601-2	18-Jun	25-Aug	L
10 AF 5819-2	23-Jun	27-Aug	L	41 AF 6603-5	19-Jun	4-Sep	L
11 AF 5931-1	24-Jun	31-Aug	L	42 NDAF 141Y-3	23-Jun	29-Aug	L
12 AF 5933-4	23-Jun	2-Sep	L	43 NDAF 1489-4	NA	28-Aug	L
13 AF 6194-4	27-Jun	6-Sep	L	44 NSAF 12238Y-2	20-Jun	31-Aug	L
14 AF 6289-2	NA	28-Aug	L	45 WAF 14096-5	22-Jun	NA	L
15 CO 10098-5W/Y	4-Jul	26-Aug	L	46 WAF 16107-2	22-Jun	31-Aug	L
16 CO 15205-4R	24-Jun	31-Aug	L				
17 CO 15211-1R	27-Jun	31-Aug	L	47 AF 6618-2	19-Jun	6-Sep	L
18 MSAFB 609-12	25-Jun	6-Sep	L	48 AF 6652-3	19-Jun	6-Sep	L
19 MSAFB 635-15	21-Jun	NA	L	49 AF 6655-1	27-Jun	NA	L
20 NDAF 113484B-1	21-Jun	27-Aug	L	50 AF 6664-8	27-Jun	NA	L
21 NY 163	22-Jun	18-Aug	L	51 AF 6664-9	27-Jun	NA	L
22 NY 165	18-Jun	2-Sep	L	52 AF 6665-3	24-Jun	NA	L
23 NY 171	21-Jun	2-Sep	L	53 AF 6668-3	22-Jun	26-Aug	L
				54 AF 6669-10	27-Jun	NA	L
24 AAF 11546-3	19-Jun	2-Sep	L	55 AF 6671-10	21-Jun	23-Aug	L
25 AF 5973-3	22-Jun	6-Sep	L	56 AF 6675-1	19-Jun	6-Sep	L
26 AF 6165-9	18-Jun	NA	L	57 AF 6680-2	27-Jun	NA	L
27 AF 6200-4	18-Jun	NA	L	58 AF 6684-9	19-Jun	6-Sep	L
28 AF 6200-7	19-Jun	6-Sep	L	59 AF 6687-3	21-Jun	26-Aug	L
29 AF 6206-3	18-Jun	NA	L	60 AF 6692-1	27-Jun	23-Aug	L
30 AF 6206-5	18-Jun	NA	L	61 AF 6693-1	25-Jun	17-Aug	L
31 AF 6522-1	NA	31-Aug	L	62 AF 6694-1	27-Jun	19-Aug	L

¹Average date when at least 50% of the plants were flowering. (NA=never reached 50%). See page 1 for reference.

²Average date when at least 75% of plants had senescence (NA=never reached 75% before vine kill). See page 1 for reference.

³ Maturity categories: E=early, M=mid, L=late

Table 4 (cont.). Estimated dates to flowering, senescence and maturity for entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	Flower ¹	Senescence ²	Maturity ³	Entry	Flower	Senescence	Maturity
63 AF 6694-8	24-Jun	24-Aug	L	91 AF 6894-12	24-Jun	NA	L
64 AF 6705-2	27-Jun	NA	L	92 AF 6896-1	21-Jun	23-Aug	L
65 AF 6717-1	27-Jun	NA	L	93 AF 6898-1	21-Jun	23-Aug	L
66 AF 6735-2	22-Jun	NA	L	94 AF 6901-8	27-Jun	NA	L
67 NDAF 14188-5	21-Jun	31-Aug	L	95 AF 6903-3	21-Jun	23-Aug	L
68 NDAF 14250CB-	24-Jun	NA	L	96 AF 6907-15	21-Jun	26-Aug	L
69 WAF 17045-2	18-Jun	26-Aug	L	97 AF 6908-2	21-Jun	NA	L
70 WAF 17049-2	21-Jun	6-Sep	L	98 AF 6908-7	21-Jun	30-Aug	L
				99 AF 6911-4	27-Jun	NA	L
71 AF 6867-1	NA	23-Aug	L	100 AF 6926-8	24-Jun	6-Sep	L
72 AF 6868-6	NA	6-Sep	L	101 AF 6930-1	27-Jun	16-Aug	L
73 AF 6871-4	21-Jun	NA	L	102 AF 6932-4	21-Jun	6-Sep	L
74 AF 6871-14	21-Jun	6-Sep	L	103 AF 6932-6	27-Jun	23-Aug	L
75 AF 6872-11	24-Jun	NA	L	104 AF 6938-4	27-Jun	NA	L
76 AF 6876-18	24-Jun	6-Sep	L	105 AF 6942-5	21-Jun	19-Aug	L
77 AF 6877-12	21-Jun	30-Aug	L	106 AF 6951-8	27-Jun	NA	L
78 AF 6878-15	21-Jun	NA	L	107 AF 6952-6	01-Jul	6-Sep	L
79 AF 6878-18	29-Jun	6-Sep	L	108 AF 6955-1	27-Jun	NA	L
80 AF 6878-22	21-Jun	6-Sep	L	109 AF 6956-8	21-Jun	19-Aug	L
81 AF 6880-9	21-Jun	6-Sep	L	110 AF 6957-10	27-Jun	6-Sep	L
82 AF 6881-4	29-Jun	23-Aug	L	111 AF 6963-1	27-Jun	6-Sep	L
83 AF 6883-4	18-Jun	26-Aug	L	112 AF 6965-5	24-Jun	6-Sep	L
84 AF 6883-8	18-Jun	NA	L	113 AF 6965-5	27-Jun	NA	L
85 AF 6886-3	NA	2-Sep	L	114 AF 6969-3	21-Jun	NA	L
86 AF 6888-9	21-Jun	6-Sep	L	115 AF 6978-1	24-Jun	NA	L
87 AF 6888-15	NA	6-Sep	L	116 AF 6979-3	21-Jun	16-Aug	L
88 AF 6889-4	24-Jun	26-Aug	L	117 AF 6980-1	24-Jun	2-Sep	L
89 AF 6892-6	21-Jun	NA	L	118 AF 6981-4	21-Jun	26-Aug	L
90 AF 6894-5	21-Jun	NA	L	119 NDAF 1710Y-1	18-Jun	NA	L
				120 NDAF 1727Y-1	4-Jul	16-Aug	L

¹Average date when at least 50% of the plants were flowering. (NA=never reached 50%). See page 1 for reference.

²Average date when at least 75% of plants had senescence (NA=never reached 75% before vine kill). See page 1 for reference.

³Maturity categories: E=early, M=mid, L=late

Table 5. Yield (cwt/A) of entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	Total	US #1	Entry	Total	US #1
1 Atlantic	371.1	338.4	32 AF 6526-7	371.1	336.3
2 Chieftain	317.4	252.1	33 AF 6541-3	237.0	205.6
3 Dark Red Norland	272.7	242.1	34 AF 6543-2	254.8	206.3
4 Katahdin	429.2	387.2	35 AF 6550-2	380.0	281.0
5 Kennebec	299.5	198.9	36 AF 6551-4	330.8	305.6
6 Snowden	447.1	415.9	37 AF 6552-2	429.2	392.3
7 Superior	219.1	186.7	38 AF 6567-4	205.7	99.0
8 Yukon Gold	295.1	268.9	39 AF 6575-6	304.0	217.1
9 AF 5280-5	290.6	242.9	40 AF 6601-2	357.7	332.1
10 AF 5819-2	362.1	337.4	41 AF 6603-5	375.5	346.0
11 AF 5931-1	313.0	281.1	42 NDAF 141Y-3	375.5	309.3
12 AF 5933-4	375.5	342.5	43 NDAF 1489-4	308.5	233.4
13 AF 6194-4	281.7	248.6	44 NSAF 12238Y-2	380.0	259.3
14 AF 6289-2	335.3	276.7	45 WAF 14096-5	451.6	335.0
15 CO 10098-5W/Y	192.2	55.4	46 WAF 16107-2	299.5	254.1
16 CO 15205-4R	286.1	226.9	47 AF 6618-2	214.6	189.6
17 CO 15211-1R	420.3	360.5	48 AF 6652-3	261.5	203.2
18 MSAFB 609-12	393.4	351.4	49 AF 6655-1	275.0	228.0
19 MSAFB 635-15	353.2	320.3	50 AF 6664-8	207.9	155.0
20 NDAF 113484B-1	317.4	289.0	51 AF 6664-9	234.7	189.5
21 NY 163	268.2	207.6	52 AF 6665-3	234.7	205.6
22 NY 165	411.3	372.1	53 AF 6668-3	207.9	183.2
23 NY 171	344.3	256.5	54 AF 6669-10	207.9	176.1
24 AAF 11546-3	438.1	354.2	55 AF 6671-10	107.3	91.0
25 AF 5973-3	295.1	260.2	56 AF 6675-1	194.5	162.5
26 AF 6165-9	384.5	332.2	57 AF 6680-2	308.5	244.2
27 AF 6200-4	389.0	317.2	58 AF 6684-9	302.7	273.9
28 AF 6200-7	290.6	250.4	59 AF 6687-3	234.7	157.0
29 AF 6206-3	424.7	380.0	60 AF 6692-1	147.5	116.3
30 AF 6206-5	375.5	304.3	61 AF 6693-1	181.1	137.2
31 AF 6522-1	308.5	271.2	62 AF 6694-1	160.9	112.6

Table 5 (cont.). Yield (cwt/A) of entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	Total	US #1	Entry	Total	US #1
63 AF 6694-8	100.6	74.6	91 AF 6894-12	268.2	241.0
64 AF 6705-2	301.8	250.9	92 AF 6896-1	442.6	390.7
65 AF 6717-1	275.0	210.7	93 AF 6898-1	264.9	212.9
66 AF 6735-2	328.6	262.6	94 AF 6901-8	254.8	161.1
67 NDAF 14188-5	275.0	239.8	95 AF 6903-3	241.4	178.8
68 NDAF 14250CB-1	254.8	227.0	96 AF 6907-15	308.5	278.7
69 WAF 17045-2	248.1	210.3	97 AF 6908-2	308.5	269.6
70 WAF 17049-2	194.5	154.0	98 AF 6908-7	201.2	186.4
			99 AF 6911-4	308.5	266.3
71 AF 6867-1	NA	NA	100 AF 6926-8	321.9	293.5
72 AF 6868-6	174.4	128.0	101 AF 6930-1	201.2	154.1
73 AF 6871-4	214.6	196.3	102 AF 6932-4	254.8	219.6
74 AF 6871-14	268.2	150.6	103 AF 6932-6	268.2	220.6
75 AF 6872-11	214.6	179.4	104 AF 6938-4	335.3	271.4
76 AF 6876-18	147.5	105.9	105 AF 6942-5	120.7	75.9
77 AF 6877-12	268.2	248.6	106 AF 6951-8	241.4	223.1
78 AF 6878-15	241.4	151.8	107 AF 6952-6	268.2	146.2
79 AF 6878-18	134.1	98.4	108 AF 6955-1	228.0	182.8
80 AF 6878-22	241.4	209.4	109 AF 6956-8	174.4	74.0
81 AF 6880-9	254.8	239.1	110 AF 6957-10	268.2	249.8
82 AF 6881-4	174.4	164.6	111 AF 6963-1	348.7	264.4
83 AF 6883-4	147.5	129.1	112 AF 6965-5	402.4	339.3
84 AF 6883-8	160.9	143.6	113 AF 6965-5	268.2	217.4
85 AF 6886-3	295.1	251.0	114 AF 6969-3	308.5	272.2
86 AF 6888-9	201.2	168.4	115 AF 6978-1	348.7	280.1
87 AF 6888-15	254.8	226.9	116 AF 6979-3	201.2	142.8
88 AF 6889-4	281.7	202.7	117 AF 6980-1	375.5	258.7
89 AF 6892-6	241.4	193.8	118 AF 6981-4	295.1	241.2
90 AF 6894-5	147.5	96.8	119 NDAF 1710Y-1	295.1	227.9
Average	280.8	230.7	120 NDAF 1727Y-1	201.2	135.6

Table 5 (cont.). Yield (% by wt) of entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	US #1	B-size	Entry	US #1	B-size
1 Atlantic	91.2	3.2	32 AF 6526-7	90.6	4.1
2 Chieftain	79.4	9.8	33 AF 6541-3	86.7	8.2
3 Dark Red Norland	88.8	8.6	34 AF 6543-2	81.0	8.6
4 Katahdin	90.2	2.7	35 AF 6550-2	73.9	4.0
5 Kennebec	66.4	5.0	36 AF 6551-4	92.4	2.5
6 Snowden	93.0	2.6	37 AF 6552-2	91.4	0.8
7 Superior	85.2	5.9	38 AF 6567-4	48.1	3.3
8 Yukon Gold	91.1	2.1	39 AF 6575-6	71.4	13.0
9 AF 5280-5	83.6	7.8	40 AF 6601-2	92.8	2.5
10 AF 5819-2	93.2	4.5	41 AF 6603-5	92.1	2.2
11 AF 5931-1	89.8	4.2	42 NDAF 141Y-3	82.4	10.7
12 AF 5933-4	91.2	6.1	43 NDAF 1489-4	75.7	12.3
13 AF 6194-4	88.3	2.1	44 NSAF 12238Y-2	68.2	14.4
14 AF 6289-2	82.5	7.3	45 WAF 14096-5	74.2	14.3
15 CO 10098-5W/Y	28.8	33.2	46 WAF 16107-2	84.8	3.8
16 CO 15205-4R	79.3	12.9			
17 CO 15211-1R	85.8	10.3	47 AF 6618-2	88.4	7.8
18 MSAFB 609-12	89.3	4.3	48 AF 6652-3	77.7	6.5
19 MSAFB 635-15	90.7	4.7	49 AF 6655-1	82.9	5.8
20 NDAF 113484B-1	91.0	6.1	50 AF 6664-8	74.6	3.5
21 NY 163	77.4	7.7	51 AF 6664-9	80.8	1.7
22 NY 165	90.5	4.3	52 AF 6665-3	87.6	8.7
23 NY 171	74.5	8.7	53 AF 6668-3	88.1	4.2
			54 AF 6669-10	84.7	8.5
24 AAF 11546-3	80.8	12.5	55 AF 6671-10	84.8	10.6
25 AF 5973-3	88.2	4.0	56 AF 6675-1	83.5	7.1
26 AF 6165-9	86.4	8.1	57 AF 6680-2	79.1	7.9
27 AF 6200-4	81.5	1.0	58 AF 6684-9	90.5	3.0
28 AF 6200-7	86.2	2.0	59 AF 6687-3	66.9	2.1
29 AF 6206-3	89.5	4.0	60 AF 6692-1	78.8	10.3
30 AF 6206-5	81.0	7.4	61 AF 6693-1	75.8	16.3
31 AF 6522-1	87.9	8.1	62 AF 6694-1	70.0	22.0

* % culls = 100% minus the sum of % US #1 and % B-size

Table 5 (cont.). Yield (%, by wt) of entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	US #1	B-size	Entry	US #1	B-size
63 AF 6694-8	74.2	16.9	91 AF 6894-12	89.8	2.7
64 AF 6705-2	83.1	3.1	92 AF 6896-1	88.3	3.6
65 AF 6717-1	76.6	9.2	93 AF 6898-1	80.4	6.3
66 AF 6735-2	79.9	5.0	94 AF 6901-8	63.2	5.1
67 NDAF 14188-5	87.2	3.6	95 AF 6903-3	74.0	7.4
68 NDAF 14250CB-1	89.1	7.6	96 AF 6907-15	90.3	4.3
69 WAF 17045-2	84.8	6.1	97 AF 6908-2	87.4	4.6
70 WAF 17049-2	79.2	3.4	98 AF 6908-7	92.6	1.1
			99 AF 6911-4	86.3	4.3
71 AF 6867-1	NA	NA	100 AF 6926-8	91.2	3.3
72 AF 6868-6	73.4	15.4	101 AF 6930-1	76.6	8.8
73 AF 6871-4	91.5	1.6	102 AF 6932-4	86.2	8.2
74 AF 6871-14	56.1	2.7	103 AF 6932-6	82.2	10.4
75 AF 6872-11	83.6	6.2	104 AF 6938-4	80.9	6.8
76 AF 6876-18	71.7	11.0	105 AF 6942-5	62.9	16.1
77 AF 6877-12	92.7	5.0	106 AF 6951-8	92.4	0.0
78 AF 6878-15	62.9	4.8	107 AF 6952-6	54.5	3.1
79 AF 6878-18	73.4	12.5	108 AF 6955-1	80.2	0.8
80 AF 6878-22	86.7	1.7	109 AF 6956-8	42.5	4.0
81 AF 6880-9	93.8	2.4	110 AF 6957-10	93.1	4.3
82 AF 6881-4	94.4	2.3	111 AF 6963-1	75.8	10.4
83 AF 6883-4	87.5	10.9	112 AF 6965-5	84.3	3.3
84 AF 6883-8	89.2	6.1	113 AF 6965-5	81.1	6.2
85 AF 6886-3	85.1	7.5	114 AF 6969-3	88.2	4.4
86 AF 6888-9	83.7	3.0	115 AF 6978-1	80.3	5.5
87 AF 6888-15	89.0	4.0	116 AF 6979-3	71.0	7.4
88 AF 6889-4	72.0	8.2	117 AF 6980-1	68.9	4.1
89 AF 6892-6	80.3	2.5	118 AF 6981-4	81.7	4.2
90 AF 6894-5	65.6	9.6	119 NDAF 1710Y-1	77.2	6.7
Average	81.2	6.5	120 NDAF 1727Y-1	67.4	5.3

* % culls =100% minus the sum of % US #1 and % B-size

Table 6. Tuber skin and flesh characteristics of entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	Skin ¹ Color	Flesh Color	Skin Texture	Entry	Skin Color	Flesh Color	Skin Texture
1 Atlantic	6	3	5	32 AF 6526-7	7	3	6
2 Chieftain	2	2	6	33 AF 6541-3	7	2	6
3 Dark Red Norland	2	2	7	34 AF 6543-2	6	3	6
4 Katahdin	7	2	7	35 AF 6550-2	7	2	7
5 Kennebec	7	3	7	36 AF 6551-4	7	1	6
6 Snowden	6	2	6	37 AF 6552-2	7	3	6
7 Superior	6	3	6	38 AF 6567-4	6	2	6
8 Yukon Gold	6	4	6	39 AF 6575-6	1	4	7
9 AF 5280-5	7	2	7	40 AF 6601-2	7	2	6
10 AF 5819-2	6	1	6	41 AF 6603-5	7	2	6
11 AF 5931-1	7	2	7	42 NDAF 141Y-3	3	1	8
12 AF 5933-4	6	1	5	43 NDAF 1489-4	7, 1	4	8
13 AF 6194-4	6	2	6	44 NSAF 12238Y-2	2	1	8
14 AF 6289-2	2	2	7	45 WAF 14096-5	7	3	6
15 CO 10098-5W/Y	7	5	7	46 WAF 16107-2	7	2	6
16 CO 15205-4R	3	2	7	47 AF 6618-2	6	2	7
17 CO 15211-1R	2	1	7	48 AF 6652-3	7	3	6
18 MSAFB 609-12	6	2	6	49 AF 6655-1	6	2	6
19 MSAFB 635-15	6	2	6	50 AF 6664-8	7	2	6
20 NDAF 113484B-1	2	1	7	51 AF 6664-9	7	4	7
21 NY 163	7	2	7	52 AF 6665-3	6	2	7
22 NY 165	6	2	6	53 AF 6668-3	7	2	6
23 NY 171	7, 1	2	8	54 AF 6669-10	7	2	6
24 AAF 11546-3	2	1	7	55 AF 6671-10	6	2	6
25 AF 5973-3	7	2	6	56 AF 6675-1	7	3	6
26 AF 6165-9	7	2	6	57 AF 6680-2	7	3	8
27 AF 6200-4	6	3	6	58 AF 6684-9	6	2	5
28 AF 6200-7	6	2	5	59 AF 6687-3	7	2	6
29 AF 6206-3	6	1	7	60 AF 6692-1	3	1	7
30 AF 6206-5	7	1	6	61 AF 6693-1	2	2	7
31 AF 6522-1	7	2	6	62 AF 6694-1	1	1	7

¹ See reference table for rating system on page 29.

Table 6 (cont.). Tuber skin and flesh characteristics of entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	Skin ¹ Color	Flesh Color	Skin Texture	Entry	Skin Color	Flesh Color	Skin Texture
63 AF 6694-8	3	2	8	94 AF 6901-8	7	2	6
64 AF 6705-2	1	2	7	95 AF 6903-3	6	3	6
65 AF 6717-1	6	2	4	96 AF 6907-15	7	1	7
66 AF 6735-2	6	2	8	97 AF 6908-2	7	3	6
67 NDAF 14188-5	6	2	5	98 AF 6908-7	6	2	6
68 NDAF 14250CB-1	2	4	6	99 AF 6911-4	6	2	6
69 WAF 17045-2	6	2	5	100 AF 6926-8	6	2	5
70 WAF 17049-2	7	2	6	101 AF 6930-1	2	2	7
				102 AF 6932-4	2	1	7
71 AF 6867-1	6	2	7	103 AF 6932-6	3	1	7
72 AF 6868-6	6	4	6	104 AF 6938-4	2	1	7
73 AF 6871-4	6	4	6	105 AF 6942-5	3	1	6
74 AF 6871-14	7	2	7	106 AF 6951-8	7	2	5
75 AF 6872-11	6	3	5	107 AF 6952-6	7	2	6
76 AF 6876-18	7	1	6	108 AF 6955-1	7	2	7
77 AF 6877-12	6	2	7	109 AF 6956-8	6	2	6
78 AF 6878-15	6	2	7	110 AF 6957-10	6	2	6
79 AF 6878-18	6	3	7	111 AF 6963-1	3	1	7
80 AF 6878-22	7	2	6	112 AF 6965-5	3	2	7
81 AF 6880-9	6	2	6	113 AF 6965-5	3	1	7
82 AF 6881-4	7	1	6	114 AF 6969-3	7	2	7
83 AF 6883-4	7	2	6	115 AF 6978-1	7	1	6
84 AF 6883-8	6	1	6	116 AF 6979-3	6	1	6
85 AF 6886-3	6	2	7	117 AF 6980-1	6	1	6
86 AF 6888-9	7	2	7	118 AF 6981-4	7	2	7
87 AF 6888-15	6	2	7	119 NDAF 1710Y-1	7	3	7
88 AF 6889-4	7	4	6	120 NDAF 1727Y-1	3	1	7
89 AF 6892-6	7	3	6				
90 AF 6894-5	6	1	7				
91 AF 6894-12	6	2	6				
92 AF 6896-1	7	2	5				
93 AF 6898-1	6	2	6				

¹ See reference table for rating system on page 29.

Table 7. Tuber skin and flesh colors of entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	<u>Skin</u>		<u>Flesh</u>	
	TDRS ¹	SW ²	TDRS	SW
1 Atlantic			3	6687
2 Chieftain	2	6305		
3 Dark Red Norland	2	6305		
5 Kennebec			3	6687
7 Superior			3	6694
8 Yukon Gold			4	6695
14 AF 6289-2	2	6572		
15 CO 10098-5W/Y			5	6682
16 CO 15205-4R	3	6306		
17 CO 15211-1R	2	6305		
20 NDAF 113484B-1	2	6299		
24 AAF 11546-3	2	6299		
27 AF 6200-4			3	6900
32 AF 6526-7			3	6694
34 AF 6543-2			3	6687
37 AF 6552-2			3	6900
39 AF 6575-6	1	6286	4	6695
42 NDAF 141Y-3	3	6572		
43 NDAF 1489-4			4	6901
44 NDAF 12238Y-2	2	6305		
45 WAF 14096-5			3	6695
48 AF 6652-3			3	6694
51 AF 6664-9			4	6688
56 AF 6675-1			3	6694
57 AF 6680-2			3	6687
60 AF 6692-1	3	6306		
61 AF 6693-1	2	6299		
62 AF 6694-1	1	6286		
63 AF 6694-8	3	6306		
64 AF 6705-2	1	6285/6839		
68 NDAF 14280CB-1	2	6573	4	6901

¹ Tuber Data Rating Sytem. See reference table on page 29.

² Sherwin Williams color number. See text on page 2.

Table 7 (cont.). Tuber skin and flesh colors of entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	<u>Skin</u>		<u>Flesh</u>	
	TDRS ¹	SW ²	TDRS	SW
72 AF 6868-6			4	6695
73 AF 6871-4			4	6695
75 AF 6872-11			3	6900
79 AF 6878-18			3	6688
87 AF 6888-15			2	6900
88 AF 6889-4			4	6901
89 AF 6892-6			3	6694
95 AF 6903-3			3	6688
97 AF 6908-2			3	6694
101 AF 6930-1	2	6312		
102 AF 6932-4	2	6572		
103 AF 6932-6	3	6572		
104 AF 6938-4	2	6580		
105 AF 6942-5	3	6312		
111 AF 6963-1	3	6313		
112 AF 6963-8	3	6312		
113 AF 6965-5	3	6312		
119 NDAF 1710Y-1			3	6900
120 NDAF 1727Y-1	3	6313		

¹ Tuber Data Rating System. See reference table on page 29.

² Sherwin Williams color number. See text on page 2.

Table 8. External tuber characteristics of entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	Shape ¹	Eye Depth	Entry	Shape	Eye Depth
1 Atlantic	3	1	32 AF 6526-7	1	3
2 Chieftain	2	3	33 AF 6541-3	2	5
3 Dark Red Norland	3	1	34 AF 6543-2	2	7
4 Katahdin	3	5	35 AF 6550-2	2	5
5 Kennebec	4	5	36 AF 6551-4	3	5
6 Snowden	3	3	37 AF 6552-2	3	5
7 Superior	4	3	38 AF 6567-4	4	3
8 Yukon Gold	4	3	39 AF 6575-6	3	7
9 AF 5280-5	3	5	40 AF 6601-2	2	3
10 AF 5819-2	2	5	41 AF 6603-5	3	3
11 AF 5931-1	3	3	42 NDAF 141Y-3	2	5
12 AF 5933-4	2	5	43 NDAF 1489-4	3	3
13 AF 6194-4	4	5	44 NSAF 12238Y-2	1	5
14 AF 6289-2	3	5	45 WAF 14096-5	3	5
15 CO 10098-5W/Y	4	5	46 WAF 16107-2	2	5
16 CO 15205-4R	3	3	47 AF 6618-2	3	5
17 CO 15211-1R	3	3	48 AF 6652-3	2	3
18 MSAFB 609-12	4	5	49 AF 6655-1	2	5
19 MSAFB 635-15	2	1	50 AF 6664-8	3	3
20 NDAF 113484B-1	3	3	51 AF 6664-9	3	5
21 NY 163	3	5	52 AF 6665-3	3	5
22 NY 165	3	5	53 AF 6668-3	2	5
23 NY 171	5	5	54 AF 6669-10	3	5
24 AAF 11546-3	3	5	55 AF 6671-10	2	5
25 AF 5973-3	2	1	56 AF 6675-1	2	3
26 AF 6165-9	3	5	57 AF 6680-2	2	5
27 AF 6200-4	3	5	58 AF 6684-9	4	3
28 AF 6200-7	3	5	59 AF 6687-3	4	5
29 AF 6206-3	2	3	60 AF 6692-1	4	3
30 AF 6206-5	2	5	61 AF 6693-1	2	1
31 AF 6522-1	2	3	62 AF 6694-1	3	3

¹ See reference table for rating system on page 29.

Table 8 (cont.). External tuber characteristics of entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	Shape ¹	Eye Depth	Entry	Shape	Eye Depth
63 AF 6694-8	2	5	91 AF 6894-12	3	5
64 AF 6705-2	2	3	92 AF 6896-1	3	5
65 AF 6717-1	2	3	93 AF 6898-1	3	5
66 AF 6735-2	2	5	94 AF 6901-8	3	5
67 NDAF 14188-5	2	5	95 AF 6903-3	2	5
68 NDAF 14250CB-1	2	3	96 AF 6907-15	3	5
69 WAF 17045-2	2	3	97 AF 6908-2	3	3
70 WAF 17049-2	4	3	98 AF 6908-7	3	3
			99 AF 6911-4	2	3
71 AF 6867-1	3	5	100 AF 6926-8	3	3
72 AF 6868-6	3	5	101 AF 6930-1	4	5
73 AF 6871-4	3	5	102 AF 6932-4	3	7
74 AF 6871-14	4	5	103 AF 6932-6	3	7
75 AF 6872-11	2	5	104 AF 6938-4	4	5
76 AF 6876-18	3	7	105 AF 6942-5	2	5
77 AF 6877-12	3	5	106 AF 6951-8	5	5
78 AF 6878-15	3	5	107 AF 6952-6	3	7
79 AF 6878-18	2	5	108 AF 6955-1	3	5
80 AF 6878-22	4	5	109 AF 6956-8	4	7
81 AF 6880-9	4	5	110 AF 6957-10	4	5
82 AF 6881-4	2	3	111 AF 6963-1	3	5
83 AF 6883-4	4	7	112 AF 6965-5	3	5
84 AF 6883-8	3	5	113 AF 6965-5	3	7
85 AF 6886-3	4	5	114 AF 6969-3	3	5
86 AF 6888-9	2	5	115 AF 6978-1	4	5
87 AF 6888-15	2	3	116 AF 6979-3	2	5
88 AF 6889-4	4	5	117 AF 6980-1	3	5
89 AF 6892-6	3	3	118 AF 6981-4	3	5
90 AF 6894-5	3	5	119 NDAF 1710Y-1	2	5
			120 NDAF 1727Y-1	3	5

¹ See reference table for rating system on page 29.

Table 9. Internal tuber defects for entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	% tubers ¹ with hollow heart	% tubers with brown center	Entry	% tubers with hollow heart	% tubers with brown center
1 Atlantic	0	40	32 AF 6526-7	0	0
2 Chieftain	0	20	33 AF 6541-3	0	0
3 Dark Red Norland	0	0	34 AF 6543-2	0	0
4 Katahdin	10	0	35 AF 6550-2	0	0
5 Kennebec	10	10	36 AF 6551-4	0	0
6 Snowden	10	0	37 AF 6552-2	0	0
7 Superior	0	10	38 AF 6567-4	0	0
8 Yukon Gold	10	20	39 AF 6575-6	0	0
9 AF 5280-5	0	0	40 AF 6601-2	0	0
10 AF 5819-2	0	0	41 AF 6603-5	0	0
11 AF 5931-1	0	0	42 NDAF 141Y-3	0	0
12 AF 5933-4	0	0	43 NDAF 1489-4	0	0
13 AF 6194-4	0	0	44 NSAF 12238Y-2	0	0
14 AF 6289-2	0	20	45 WAF 14096-5	0	0
15 CO 10098-5W/Y	0	0	46 WAF 16107-2	0	0
16 CO 15205-4R	0	0	47 AF 6618-2	0	0
17 CO 15211-1R	0	0	48 AF 6652-3	0	0
18 MSAFB 609-12	0	0	49 AF 6655-1	10	0
19 MSAFB 635-15	0	0	50 AF 6664-8	0	0
20 NDAF 113484B-1	0	0	51 AF 6664-9	0	0
21 NY 163	0	0	52 AF 6665-3	0	0
22 NY 165	0	0	53 AF 6668-3	0	0
23 NY 171	0	10	54 AF 6669-10	0	0
24 AAF 11546-3	0	0	55 AF 6671-10	0	0
25 AF 5973-3	0	0	56 AF 6675-1	0	0
26 AF 6165-9	0	0	57 AF 6680-2	0	0
27 AF 6200-4	0	0	58 AF 6684-9	10	0
28 AF 6200-7	0	0	59 AF 6687-3	0	0
29 AF 6206-3	0	0	60 AF 6692-1	10	0
30 AF 6206-5	0	0	61 AF 6693-1	0	0
31 AF 6522-1	0	0	62 AF 6694-1	0	0

¹ % of tubers out of 10 tubers that contain the defect.

Table 9 (cont.). Internal tuber defects for entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	% tubers ¹ with hollow heart	% tubers with brown center	Entry	% tubers with hollow heart	% tubers with brown center
63 AF 6694-8	0	0	91 AF 6894-12	0	0
64 AF 6705-2	0	0	92 AF 6896-1	0	0
65 AF 6717-1	0	0	93 AF 6898-1	0	0
66 AF 6735-2	0	0	94 AF 6901-8	0	0
67 NDAF 14188-5	0	0	95 AF 6903-3	0	0
68 NDAF 14250CB-1	0	0	96 AF 6907-15	0	0
69 WAF 17045-2	10	0	97 AF 6908-2	10	0
70 WAF 17049-2	0	0	98 AF 6908-7	0	0
			99 AF 6911-4	0	0
71 AF 6867-1	NA	NA	100 AF 6926-8	0	0
72 AF 6868-6	0	0	101 AF 6930-1	0	0
73 AF 6871-4	20	30	102 AF 6932-4	0	0
74 AF 6871-14	0	20	103 AF 6932-6	0	0
75 AF 6872-11	0	0	104 AF 6938-4	0	0
76 AF 6876-18	0	10	105 AF 6942-5	0	0
77 AF 6877-12	0	0	106 AF 6951-8	0	10
78 AF 6878-15	0	0	107 AF 6952-6	0	0
79 AF 6878-18	0	0	108 AF 6955-1	0	0
80 AF 6878-22	0	0	109 AF 6956-8	11	0
81 AF 6880-9	0	0	110 AF 6957-10	0	0
82 AF 6881-4	0	0	111 AF 6963-1	0	0
83 AF 6883-4	0	0	112 AF 6965-5	0	0
84 AF 6883-8	0	0	113 AF 6965-5	0	0
85 AF 6886-3	0	0	114 AF 6969-3	0	0
86 AF 6888-9	0	0	115 AF 6978-1	0	0
87 AF 6888-15	0	10	116 AF 6979-3	0	0
88 AF 6889-4	0	0	117 AF 6980-1	0	0
89 AF 6892-6	0	0	118 AF 6981-4	0	0
90 AF 6894-5	10	0	119 NDAF 1710Y-1	0	0
			120 NDAF 1727Y-1	0	0

¹ % of tubers out of 10 tubers that contain the defect.

Table 9 (cont.). Internal tuber defects for entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	% tubers ¹ with necrosis	% tubers with vasc. discoloration	Entry	% tubers with necrosis	% tubers with vasc. discoloration
1 Atlantic	0	10	32 AF 6526-7	0	10
2 Chieftain	0	0	33 AF 6541-3	0	30
3 Dark Red Norland	10	20	34 AF 6543-2	0	40
4 Katahdin	10	20	35 AF 6550-2	0	10
5 Kennebec	10	20	36 AF 6551-4	0	10
6 Snowden	0	10	37 AF 6552-2	0	10
7 Superior	0	0	38 AF 6567-4	0	0
8 Yukon Gold	0	0	39 AF 6575-6	0	10
9 AF 5280-5	0	10	40 AF 6601-2	0	0
10 AF 5819-2	0	40	41 AF 6603-5	0	0
11 AF 5931-1	0	10	42 NDAF 141Y-3	0	0
12 AF 5933-4	0	0	43 NDAF 1489-4	0	0
13 AF 6194-4	0	0	44 NSAF 12238Y-2	0	10
14 AF 6289-2	10	0	45 WAF 14096-5	0	0
15 CO 10098-5W/Y	0	10	46 WAF 16107-2	0	10
16 CO 15205-4R	0	20			
17 CO 15211-1R	10	10	47 AF 6618-2	0	0
18 MSAFB 609-12	0	0	48 AF 6652-3	0	30
19 MSAFB 635-15	0	20	49 AF 6655-1	0	10
20 NDAF 113484B-1	0	30	50 AF 6664-8	0	10
21 NY 163	0	10	51 AF 6664-9	20	30
22 NY 165	0	20	52 AF 6665-3	0	10
23 NY 171	0	20	53 AF 6668-3	0	0
			54 AF 6669-10	10	10
24 AAF 11546-3	0	10	55 AF 6671-10	0	0
25 AF 5973-3	0	20	56 AF 6675-1	0	10
26 AF 6165-9	0	20	57 AF 6680-2	0	10
27 AF 6200-4	0	10	58 AF 6684-9	0	20
28 AF 6200-7	0	0	59 AF 6687-3	10	10
29 AF 6206-3	0	20	60 AF 6692-1	10	0
30 AF 6206-5	0	20	61 AF 6693-1	0	10
31 AF 6522-1	0	10	62 AF 6694-1	0	30

¹ % of tubers out of 10 tubers that contain the defect.

Table 9 (cont.). Internal tuber defects for entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	% tubers ¹ with necrosis	% tubers with vasc. discoloration	Entry	% tubers with necrosis	% tubers with vasc. discoloration
63 AF 6694-8	0	20	91 AF 6894-12	0	60
64 AF 6705-2	0	0	92 AF 6896-1	0	20
65 AF 6717-1	0	10	93 AF 6898-1	0	30
66 AF 6735-2	0	10	94 AF 6901-8	0	20
67 NDAF 14188-5	0	20	95 AF 6903-3	0	10
68 NDAF 14250CB-1	0	0	96 AF 6907-15	0	10
69 WAF 17045-2	10	20	97 AF 6908-2	0	40
70 WAF 17049-2	0	0	98 AF 6908-7	0	10
			99 AF 6911-4	0	30
71 AF 6867-1	NA	NA	100 AF 6926-8	0	0
72 AF 6868-6	0	10	101 AF 6930-1	0	10
73 AF 6871-4	0	20	102 AF 6932-4	0	0
74 AF 6871-14	0	0	103 AF 6932-6	0	30
75 AF 6872-11	0	10	104 AF 6938-4	0	50
76 AF 6876-18	0	0	105 AF 6942-5	0	10
77 AF 6877-12	0	0	106 AF 6951-8	0	10
78 AF 6878-15	0	30	107 AF 6952-6	0	40
79 AF 6878-18	0	10	108 AF 6955-1	0	20
80 AF 6878-22	0	10	109 AF 6956-8	0	22
81 AF 6880-9	0	10	110 AF 6957-10	0	20
82 AF 6881-4	0	0	111 AF 6963-1	0	10
83 AF 6883-4	0	0	112 AF 6965-5	0	0
84 AF 6883-8	0	20	113 AF 6965-5	0	0
85 AF 6886-3	0	0	114 AF 6969-3	0	10
86 AF 6888-9	0	20	115 AF 6978-1	0	0
87 AF 6888-15	0	0	116 AF 6979-3	0	0
88 AF 6889-4	0	30	117 AF 6980-1	0	0
89 AF 6892-6	0	10	118 AF 6981-4	0	30
90 AF 6894-5	0	0	119 NDAF 1710Y-1	0	20
			120 NDAF 1727Y-1	0	0

¹ % of tubers out of 10 tubers that contain the defect.

Table 10. Overall quality for entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	Overall ¹ Appearance	% tubers ² with defects	Entry	Overall Appearance	% tubers with defects
1 Atlantic	5	50	32 AF 6526-7	7	10
2 Chieftain	5	20	33 AF 6541-3	7	30
3 Dark Red Norland	5	20	34 AF 6543-2	5	40
4 Katahdin	7	30	35 AF 6550-2	7	10
5 Kennebec	7	30	36 AF 6551-4	7	10
6 Snowden	5	20	37 AF 6552-2	5	10
7 Superior	7	10	38 AF 6567-4	5	0
8 Yukon Gold	5	20	39 AF 6575-6	5	10
9 AF 5280-5	5	10	40 AF 6601-2	5	0
10 AF 5819-2	7	40	41 AF 6603-5	5	0
11 AF 5931-1	7	10	42 NDAF 141Y-3	5	0
12 AF 5933-4	7	0	43 NDAF 1489-4	5	0
13 AF 6194-4	5	0	44 NSAF 12238Y-2	5	10
14 AF 6289-2	5	30	45 WAF 14096-5	5	0
15 CO 10098-5W/Y	5	10	46 WAF 16107-2	5	10
16 CO 15205-4R	5	20	47 AF 6618-2	7	0
17 CO 15211-1R	5	20	48 AF 6652-3	5	30
18 MSAFB 609-12	7	0	49 AF 6655-1	5	20
19 MSAFB 635-15	5	20	50 AF 6664-8	5	10
20 NDAF 113484B-1	5	30	51 AF 6664-9	5	50
21 NY 163	7	10	52 AF 6665-3	5	10
22 NY 165	7	20	53 AF 6668-3	7	0
23 NY 171	5	30	54 AF 6669-10	5	20
24 AAF 11546-3	5	10	55 AF 6671-10	5	0
25 AF 5973-3	7	20	56 AF 6675-1	5	10
26 AF 6165-9	7	20	57 AF 6680-2	7	10
27 AF 6200-4	5	10	58 AF 6684-9	5	30
28 AF 6200-7	5	0	59 AF 6687-3	5	20
29 AF 6206-3	5	20	60 AF 6692-1	5	10
30 AF 6206-5	5	20	61 AF 6693-1	5	10
31 AF 6522-1	7	10	62 AF 6694-1	7	30

¹ See reference table for rating system on page 29.

² % of tubers out of 10 tubers that contain defects.

Table 10 (cont.). Overall quality for entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	Overall ¹ Appearance	% tubers ² with defects	Entry	Overall Appearance	% tubers with defects
63 AF 6694-8	5	20	91 AF 6894-12	5	60
64 AF 6705-2	5	0	92 AF 6896-1	5	20
65 AF 6717-1	7	10	93 AF 6898-1	3	30
66 AF 6735-2	7	10	94 AF 6901-8	3	20
67 NDAF 14188-5	7	20	95 AF 6903-3	7	10
68 NDAF 14250CB-1	5	0	96 AF 6907-15	5	10
69 WAF 17045-2	5	30	97 AF 6908-2	5	40
70 WAF 17049-2	5	0	98 AF 6908-7	5	10
			99 AF 6911-4	5	30
71 AF 6867-1	3	NA	100 AF 6926-8	7	0
72 AF 6868-6	5	10	101 AF 6930-1	5	10
73 AF 6871-4	5	50	102 AF 6932-4	5	0
74 AF 6871-14	5	20	103 AF 6932-6	5	30
75 AF 6872-11	7	10	104 AF 6938-4	3	50
76 AF 6876-18	5	10	105 AF 6942-5	5	10
77 AF 6877-12	5	0	106 AF 6951-8	5	20
78 AF 6878-15	5	30	107 AF 6952-6	5	40
79 AF 6878-18	5	10	108 AF 6955-1	5	20
80 AF 6878-22	5	10	109 AF 6956-8	3	33
81 AF 6880-9	5	10	110 AF 6957-10	5	20
82 AF 6881-4	5	0	111 AF 6963-1	5	10
83 AF 6883-4	7	0	112 AF 6965-5	5	0
84 AF 6883-8	5	20	113 AF 6965-5	5	0
85 AF 6886-3	5	0	114 AF 6969-3	7	10
86 AF 6888-9	7	20	115 AF 6978-1	5	0
87 AF 6888-15	7	10	116 AF 6979-3	7	0
88 AF 6889-4	7	30	117 AF 6980-1	5	0
89 AF 6892-6	7	10	118 AF 6981-4	5	30
90 AF 6894-5	5	10	119 NDAF 1710Y-1	7	20
			120 NDAF 1727Y-1	5	0

¹ See reference table for rating system on page 29.

² % of tubers out of 10 tubers that contain defects.

Table 11. Specific gravity and chip quality for entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	Specific Gravity ¹	Chip Color ²	% Blister ³	Entry	Specific Gravity	Chip Color	% Blister
1 Atlantic	1.079	1	15	32 AF 6526-7	1.079	2	5
2 Chieftain	1.060	5	10	33 AF 6541-3	1.065	1	10
3 Dark Red Norland	1.060	5	5	34 AF 6543-2	1.078	3	5
4 Katahdin	1.064	4	10	35 AF 6550-2	1.080	2	15
5 Kennebec	1.061	5	0	36 AF 6551-4	1.060	1	15
6 Snowden	1.078	2	25	37 AF 6552-2	1.075	4	20
7 Superior	1.063	5	0	38 AF 6567-4	1.081	3	10
8 Yukon Gold	1.069	4	15	39 AF 6575-6	1.069	ND	ND
9 AF 5280-5	1.060	4	0	40 AF 6601-2	1.069	3	10
10 AF 5819-2	1.060	2	30	41 AF 6603-5	1.075	3	5
11 AF 5931-1	1.060	3	15	42 NDAF 141Y-3	1.063	ND	ND
12 AF 5933-4	1.081	2	25	43 NDAF 1489-4	1.065	ND	ND
13 AF 6194-4	1.066	4	5	44 NSAF 12238Y-2	1.060	ND	ND
14 AF 6289-2	1.060	4	0	45 WAF 14096-5	1.064	ND	ND
15 CO 10098-5W/Y	1.086	3	5	46 WAF 16107-2	1.075	3	0
16 CO 15205-4R	1.071	6	10	47 AF 6618-2	1.086	2	15
17 CO 15211-1R	1.061	5	0	48 AF 6652-3	1.076	3	5
18 MSAFB 609-12	1.077	1	10	49 AF 6655-1	1.079	3	35
19 MSAFB 635-15	1.070	2	15	50 AF 6664-8	1.075	3	0
20 NDAF 113484B-1	1.060	4	10	51 AF 6664-9	1.083	ND	ND
21 NY 163	1.074	1	50	52 AF 6665-3	1.071	4	10
22 NY 165	1.071	2	0	53 AF 6668-3	1.068	4	0
23 NY 171	1.062	5	0	54 AF 6669-10	1.088	2	20
24 AAF 11546-3	1.060	ND	ND	55 AF 6671-10	1.082	1	5
25 AF 5973-3	1.084	1	0	56 AF 6675-1	1.071	3	25
26 AF 6165-9	1.091	2	10	57 AF 6680-2	1.074	3	15
27 AF 6200-4	1.072	4	20	58 AF 6684-9	1.078	4	30
28 AF 6200-7	1.085	2	0	59 AF 6687-3	1.073	2	5
29 AF 6206-3	1.076	4	15	60 AF 6692-1	1.061	ND	ND
30 AF 6206-5	1.085	3	15	61 AF 6693-1	1.062	ND	ND
31 AF 6522-1	1.073	4	10	62 AF 6694-1	1.060	ND	ND

¹ Corrected values. See calculations on page 2 and reference table on page 31 for starch and dry matter conversions.

² SFA Standard (1=light, 6 =dark).

³ Percentage of chips that developed blisters greater than 1 cm in diameter during the frying process.

ND=No data collected.

Table 11 (cont.). Specific gravity and chip quality for entries grown in potato germplasm evaluations at the OSU-OARDC in Wooster, OH in 2022.

Entry	Specific ¹ Gravity	Chip ² Color	% ³ Blister	Entry	Specific Gravity	Chip Color	% Blister
63 AF 6694-8	1.062	ND	ND	91 AF 6894-12	1.084	3	5
64 AF 6705-2	1.060	ND	ND	92 AF 6896-1	1.080	4	20
65 AF 6717-1	1.067	4	10	93 AF 6898-1	1.082	3	0
66 AF 6735-2	1.066	5	0	94 AF 6901-8	1.074	3	20
67 NDAF 14188-5	1.072	3	10	95 AF 6903-3	1.079	ND	ND
68 NDAF 14250CB-1	1.060	ND	ND	96 AF 6907-15	1.069	4	15
69 WAF 17045-2	1.071	2	0	97 AF 6908-2	1.077	3	15
70 WAF 17049-2	1.096	1	5	98 AF 6908-7	1.079	4	0
				99 AF 6911-4	1.075	4	15
71 AF 6867-1	ND	ND	ND	100 AF 6926-8	1.070	2	30
72 AF 6868-6	ND	ND	ND	101 AF 6930-1	1.060	ND	ND
73 AF 6871-4	1.072	ND	ND	102 AF 6932-4	1.061	ND	ND
74 AF 6871-14	1.068	ND	ND	103 AF 6932-6	1.060	ND	ND
75 AF 6872-11	1.079	3	50	104 AF 6938-4	1.060	ND	ND
76 AF 6876-18	ND	2	30	105 AF 6942-5	ND	ND	ND
77 AF 6877-12	1.069	4	15	106 AF 6951-8	1.069	2	15
78 AF 6878-15	1.077	5	20	107 AF 6952-6	1.065	2	10
79 AF 6878-18	ND	ND	ND	108 AF 6955-1	1.067	ND	ND
80 AF 6878-22	1.079	1	45	109 AF 6956-8	ND	4	10
81 AF 6880-9	1.072	2	30	110 AF 6957-10	1.074	3	20
82 AF 6881-4	1.065	3	30	111 AF 6963-1	1.067	ND	ND
83 AF 6883-4	1.089	3	10	112 AF 6965-5	1.064	ND	ND
84 AF 6883-8	1.079	3	5	113 AF 6965-5	1.074	ND	ND
85 AF 6886-3	1.074	2	60	114 AF 6969-3	1.065	5	10
86 AF 6888-9	1.073	4	30	115 AF 6978-1	1.074	2	0
87 AF 6888-15	1.069	ND	ND	116 AF 6979-3	1.070	4	0
88 AF 6889-4	1.083	ND	ND	117 AF 6980-1	1.074	2	15
89 AF 6892-6	1.075	2	25	118 AF 6981-4	1.065	2	5
90 AF 6894-5	ND	3	5	119 NDAF 1710Y-1	1.073	ND	ND
				120 NDAF 1727Y-1	1.060	ND	ND

¹ Corrected values. See calculations on page 2 and reference table on page 31 for starch and dry matter conversions.

² SFA Standard (1=light, 6 =dark).

³ Percentage of chips that developed blisters greater than 1 cm in diameter during the frying process.

ND=No data collected.

TUBER DATA RATING SYSTEM

Skin Color

1. Purple
2. Red
3. Pink
4. Dark Brown
5. Brown
6. Tan
7. Buff
8. White
9. Cream

Skin Texture

1. Part. russet
2. Heavy russet
3. Mod. russet
4. Light russet
5. Netted
6. Slight netting
7. Mod. smooth
8. Smooth
9. Very smooth

Shape

1. Round
2. Mostly round
3. Round to oblong
4. Mostly oblong
5. Oblong
6. Oblong to long
7. Mostly long
8. Long
9. Cylindrical

Eye Depth

1. Very deep
2. --
3. Deep
4. --
5. Intermediate
6. --
7. Shallow
8. --
9. Very Shallow

Appearance

1. Very poor
2. -
3. Poor
4. -
5. Fair
6. -
7. Good
8. -
9. Excellent

Flesh Color

1. White
2. Cream
3. Light Yellow
4. Med. Yellow
5. Dark Yellow/Orange
6. Pink
7. Red
8. Blue
9. Purple

TEMPERATURE CORRECTION

The pulp temperature of the potatoes and the temperature of the water shall be recorded immediately before testing and the specific gravity reading corrected as indicated in the following table:

Correction Factors for Specific Gravity of Potatoes*
(Corrected to Zero Base of 50° Tuber Temperatures and 50° Water Temperature)

Water Temperature Degrees Fahrenheit

Tuber Temperature	38°	40°	45°	50°	55°	60°	65°	70°	75°	80°
38°	-.0021	-.0020	-.0018	-.0018	-.0020	-.0023	-.0029	-.0038	-.0047	-.0056
40°	-.0017	-.0018	-.0014	-.0014	-.0016	-.0019	-.0025	-.0034	-.0043	-.0052
45°	-.0009	-.0008	-.0006	-.0006	-.0008	-.0011	-.0017	-.0026	-.0035	-.0044
50°	-.0003	-.0002	0	0	-.0002	-.0005	-.0011	-.0020	-.0029	-.0038
55°	+.0001	+.0002	+.0004	+.0004	+.0002	-.0001	-.0007	-.0016	-.0025	-.0034
60°	+.0004	+.0005	+.0007	+.0007	+.0005	+.0002	-.0004	-.0013	-.0022	-.0031
65°	+.0005	+.0006	+.0008	+.0008	+.0008	+.0003	-.0003	-.0012	-.0021	-.0030
70°	+.0006	+.0007	+.0009	+.0009	+.0007	+.0004	-.0002	-.0011	-.0020	-.0029
75°	+.0007	+.0008	+.0010	+.0010	+.0008	+.0005	-.0001	-.0010	-.0019	-.0028
80°	+.0008	+.0009	+.0011	+.0011	+.0009	+.0006	0	-.0009	-.0018	-.0027
85°	+.0009	+.0010	+.0012	+.0012	+.0010	+.0007	+.0001	-.0008	-.0017	-.0026
90°	+.0010	+.0011	+.0013	+.0013	+.0011	+.0008	+.0002	-.0007	-.0016	-.0025
95°	+.0011	+.0012	+.0014	+.0014	+.0012	+.0009	+.0003	-.0006	-.0015	-.0024
100°	+.0012	+.0013	+.0015	+.0015	+.0013	+.0010	+.0004	-.0005	-.0014	-.0023

* To apply correction factor, change actual specific gravity reading by adding or subtracting the appropriate factor according to the plus or minus sign.

This table is copied and referenced from the Snack Food Association's (nka SNAC International) Potato Hydrometer Information and Instructions Booklet

Conversion Table for Specific Gravity of Potato Tubers to Content of Starch and Dry Matter % (Calculated from Von Scheele equations: % starch = $17.565 + 199.07$ (Sp. Gr.-1.0988); % dry matter = $24.181 + 211.04$ (Sp. Gr.-1.0988)

Specific Gravity	Starch %	Dry Matter %	Specific Gravity	Starch %	Dry Matter %
1.050	7.85	13.88	1.081	14.02	20.43
1.051	8.05	14.09	1.082	14.22	20.64
1.052	8.25	14.31	1.083	14.42	20.85
1.053	8.45	14.32	1.084	14.62	21.06
1.054	8.65	14.73	1.085	14.82	21.27
1.055	8.85	14.94	1.086	15.02	21.48
1.056	9.04	15.15	1.087	15.22	21.69
1.057	9.24	15.38	1.088	15.41	21.90
1.058	9.44	15.57	1.089	15.61	22.11
1.059	9.64	15.78	1.090	15.81	22.33
1.060	9.84	15.99	1.091	16.01	22.54
1.061	10.04	16.21	1.092	16.20	22.75
1.062	10.24	16.42	1.093	16.41	22.96
1.063	10.44	16.63	1.094	16.61	23.17
1.064	10.64	16.84	1.095	16.81	23.38
1.065	10.84	17.05	1.096	17.01	23.59
1.066	11.04	17.26	1.097	17.21	23.89
1.067	11.23	17.47	1.098	17.41	24.01
1.068	11.43	17.68	1.099	17.60	24.22
1.069	11.63	17.89	1.100	17.80	24.44
1.070	11.83	18.10	1.101	18.00	24.65
1.071	12.03	18.32	1.102	18.20	24.86
1.072	12.23	18.53	1.103	18.40	25.07
1.073	12.43	18.74	1.104	18.60	25.28
1.074	12.63	18.95	1.105	18.80	25.49
1.075	12.83	19.16	1.106	19.00	25.70
1.076	13.03	19.37	1.107	19.20	25.91
1.077	13.22	19.58	1.180	19.40	26.12
1.078	13.42	19.79	1.109	29.60	26.34
1.079	13.62	20.00	1.110	19.79	26.55
1.080	13.82	20.21	1.111	19.99	26.76

Factors Affecting the Specific Gravity of the White Potato in Maine. Maine Agricultural Experiment Station. Bulletin 583. May 1959.

External and Internal Quality Images for NE-1731 and Selected Observation Entries



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COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES



1 - Atlantic



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AND ENVIRONMENTAL SCIENCES



2 - Chieftain



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AND ENVIRONMENTAL SCIENCES



3 - Dark Red Norland



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4 - Katahdin



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5 - Kennebec



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6 - Snowden



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7 - Superior



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8 - Yukon Gold



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9 - AF 5280-5



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10 - AF 5819-2



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11-AF 5931-1



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12 - AF 5933-4



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13 - AF 6194-4



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14 - AF 6289-2



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15 - CO 10098-5W/Y



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16 - CO 15205-4R



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17- CO 15211-1R



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18 - MSAFB 609-12



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19 - MSAFB 635-15



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20 - NDAF 113484B-1



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21 - NY 163



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22 - NY 165



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23 - NY 171



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24 - AAF 11546-3



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39 - AF 6575-6



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42 - NDAF 141Y-3



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43 - NDAF 1489-4



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44 - NDAF 12238Y-2



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45 - WAF 14096-5



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51 - AF 6664-9



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60 - AF 6692-1



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61 - AF 6693-1



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62 - AF 6694-1

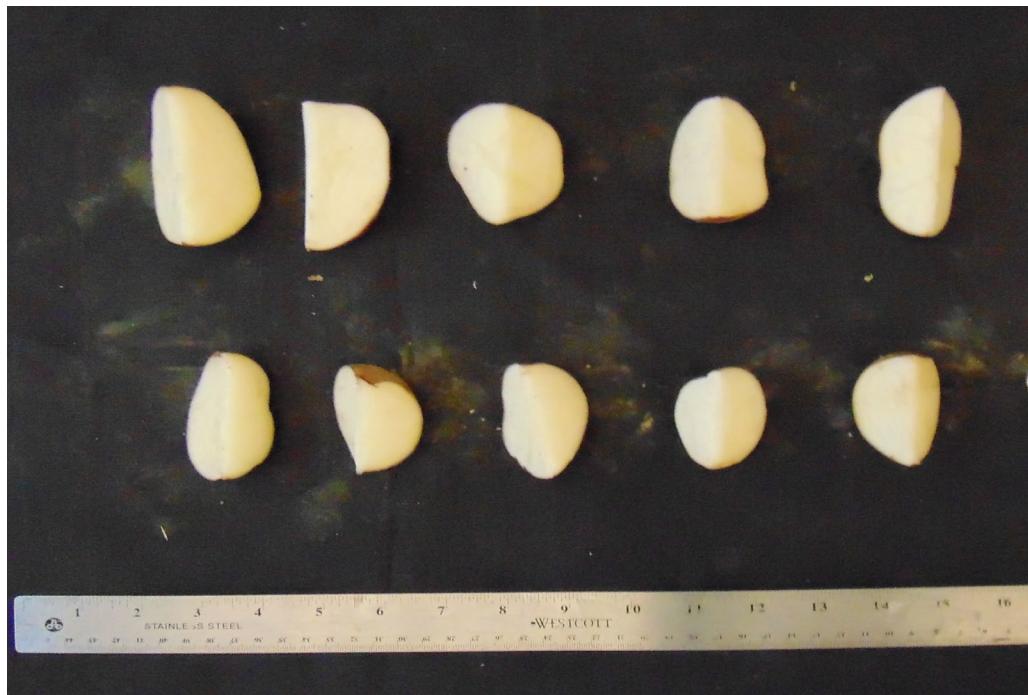


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63 - AF 6694-8



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64 - AF 6705-2



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68 - NDAF 14280CB-1



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72 - AF 6868-6



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73 - AF 6871-4



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74 - AF 6871-14



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101 - AF 6930-1



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102 - AF 6932-4



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103 - AF 6932-6

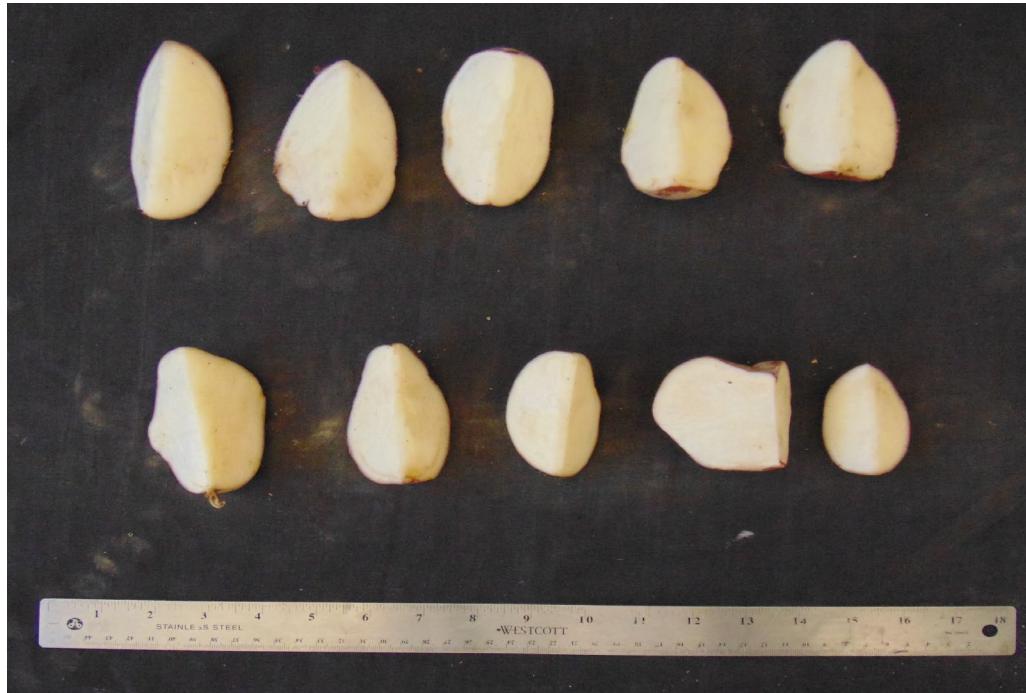


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105 - AF 6942-5



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108 - AF 6955-1



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111 - AF 6963-1



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112 - AF 6963-8



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113 - AF 6965-5

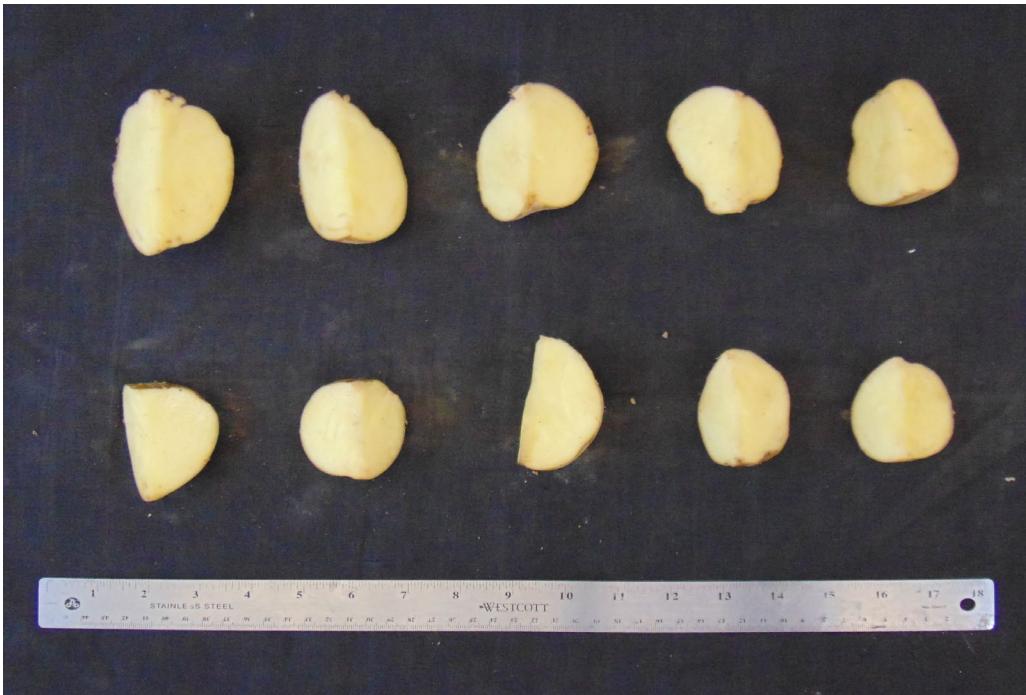


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119 - NDAF 1710Y-1



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120 - NDAF 1727Y-1



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