

BARC Table 1. Yield, tuber size distribution, and quality characteristics of round whites harvested 126 days after planting on Aroostook State Farm in 2008.

Pedigree	Mkt cwt/A	%Mkt	Tuber Size Distribution					SG	HH ¹	BC ¹	INT ¹
			< 1 7/8"	1 7/8-2 1/4"	2 1/4 - 3 1/4"	3 1/4 - 4"	>4"				
Atlantic	325	89	11.3	62.7	26.1	0	0	1.092	0	0	0
B0766-3	271	94	6.4	39.2	49.4	5.0	0	1.087	2	0	0
B1992-106	230	91	9.4	56.4	34.2	0	0	1.085	0	0	0
B2452-3	224	93	6.6	28.2	56.1	9.2	0	1.071	0	0	0
B2459-13	240	82	18.2	63.8	18.0	0	0	1.095	0	0	0
B2459-6	262	95	5.1	40.3	54.6	0	0	1.083	14	0	0
B2460-23	236	89	11.0	34.5	54.5	0	0	1.084	1	0	0
B2471-12	243	79	20.9	59.1	20.0	0	0	1.083	0	0	0
B2489-6	208	77	22.6	63.3	14.1	0	0	1.085	0	0	0
B2492-7	165	77	23.4	67.6	9.0	0	0	1.064	0	0	0
B2501-10	255	95	5.3	37.3	54.7	2.7	0	1.066	0	0	0
B2575-14	178	88	11.9	60.2	27.9	0	0	1.070	0	0	0
B2575-19	171	92	8.3	58.9	32.8	0	0	1.063	0	0	0
B2588-4	103	56	44.2	53.4	2.5	0	0	1.072	0	0	0
B2589-3	232	75	25.2	65.6	9.2	0	0	1.082	0	0	0
B2613-2	151	67	32.7	59.3	8.0	0	0	1.085	1	0	0
B2614-4	242	90	10.4	64.6	25.0	0	0	1.083	0	0	0
BNC41-13	212	77	23.4	66.0	10.6	0	0	1.085	0	0	0
BNC49-1	375	95	4.8	28.9	63.0	3.0	0.3	1.080	3	0	0
BNC49-2	232	96	4.2	40.3	52.4	3.1	0	1.084	2	0	0
BP153-1	338	98	1.7	17.0	62.7	17.9	0.7	1.073	4	0	0
H Blackwell	322	91	8.7	51.6	39.7	0	0	1.084	0	0	0
GemChip	298	90	9.7	41.9	47.0	1.0	0.4	1.075	6	0	0
Ivory Crisp	251	87	12.9	67.3	19.8	0	0	1.085	0	0	0
LSD (0.05)	66							0.005			

¹ Number of tubers out of 40 with hollow heart, brown center, or other internal defects.

BARC Table 1. Continued.

Temperature Date Pedigree	50F		45F		40F		40-70F		50F		45F		40F		40-70F	
	1/6 Chip ²	Spt ³	1/7 Chip	Spt	1/9 Chip	Spt	1/27 Chip	Spt	2/3 Chip	Spt	2/5 Chip	Spt	2/6 Chip	Spt	2/18 Chip	Spt
Atlantic	6.4	S	7.1	S	9.9	O	8.2	M	7.5	M	8.0	L	10.0	0	8.0	VL
B0766-3	4.6	S	5.9	S	8.9	O	7.6	L	7.0	L	7.0	L	9.0	0	7.4	VL
B1992-106	6.8	M	8.0	M	9.9	O	8.6	S	8.3	VL	8.8	VL	10.0	0	8.3	L
B2452-3	7.2	S	8.2	S	10.0	O	9.5	S	8.5	L	9.0	M	10.0	0	9.1	M
B2459-13	7.3	O	7.8	S	9.5	O	8.2	S	8.0	L	8.3	M	10.0	0	8.1	L
B2459-6	7.9	S	8.3	S	10.0	O	9.7	M	8.7	L	9.0	L	10.0	0	9.5	VL
B2460-23	5.9	M	7.1	M	9.9	O	8.0	L	8.1	VL	8.5	VL	9.8	0	7.8	VL
B2471-12	6.9	M	7.4	M	9.6	O	9.3	M	8.7	VL	9.3	VL	10.0	0	9.8	L
B2489-6	6.0	S	7.3	S	9.0	O	8.5	M	8.0	VL	7.5	L	9.5	0	8.2	L
B2492-7	5.4	S	6.4	S	9.2	O	8.4	M	7.3	S	7.5	S	9.0	0	8.0	M
B2501-10	7.1	L	8.1	L	9.9	O	8.8	M	8.8	VL	9.5	VL	10.0	0	8.6	L
B2575-14	7.2	S	8.3	S	10.0	O	9.8	S	8.5	L	9.4	L	10.0	0	9.8	S
B2575-19	6.9	S	7.9	S	10.0	O	9.4	S	8.3	M	9.2	M	10.0	0	9.8	M
B2588-4	5.4	S	7.1	S	9.9	O	8.5	M	NT	NT	NT	NT	NT	NT	NT	NT
B2589-3	6.2	S	7.3	S	9.7	O	8.5	L	NT	NT	NT	NT	NT	NT	NT	NT
B2613-2	5.3	M	7.0	L	9.6	O	8.9	M	7.8	VL	8.0	VL	10.0	0	8.8	L
B2614-4	6.1	S	7.2	S	9.4	O	8.5	M	7.3	M	8.2	M	9.8	0	8.6	L
BNC41-13	5.9	S	7.0	S	9.6	O	8.4	S	7.3	L	7.5	M	10.0	0	7.8	L
BNC49-1	5.4	S	6.5	S	9.8	O	8.1	S	7.5	L	7.4	L	10.0	0	7.8	M
BNC49-2	5.2	S	6.9	S	9.4	O	8.7	S	7.8	L	7.4	L	10.0	0	8.3	L
BP153-1	7.6	S	7.8	S	9.9	O	10.0	S	8.3	M	8.4	S	10.0	0	10.0	S
H Blackwell	6.4	S	7.3	S	9.5	O	9.3	M	8.0	L	7.8	VL	10.0	0	8.8	L
GemChip	6.0	O	7.4	O	9.7	O	9.0	S	7.5	S	8.0	S	10.0	0	8.8	M
Ivory Crisp	4.6	S	5.8	S	9.1	O	8.1	S	7.0	L	7.0	L	9.0	0	8.0	M

² Chips 1-7 satisfactory. ³ 0 = no sprouts; S < 0.5"; 0.5 ≤ M < 1.5"; 1.5" ≤ L < 2.5"; VL ≥ 2.5".

BARC Table 2. Yield, tuber size distribution, and quality characteristics of round whites harvested 126 days after planting on Aroostook State Farm in 2008.

Pedigree	Mkt cwt/A	%Mkt	Tuber Size Distribution					SG	HH ¹	BC ¹	INT ¹
			< 1 7/8"	1 7/8-2 1/4"	2 1/4 - 3 1/4"	3 1/4 - 4"	>4"				
Atlantic	365	91	9.0	54.4	35.9	0.6	0	1.085	2	0	0
B2627-7	205	81	19.2	57.9	23.0	0.0	0	1.065	0	0	0
B2628-10	203	82	18.1	64.2	17.8	0.0	0	1.083	11	0	0
B2628-4	194	84	16.5	53.6	29.2	0.7	0	1.073	1	0	0
B2628-9	293	90	9.7	56.6	33.7	0.0	0	1.074	3	0	0
B2633-3	187	85	15.3	47.6	36.1	0.9	0	1.066	0	0	0
B2634-13	207	66	33.7	60.4	5.2	0.6	0	1.083	0	0	0
B2634-3	312	86	14.2	55.1	30.1	0.6	0	1.069	0	0	0
B2634-7	251	87	12.9	56.7	28.7	1.7	0	1.067	0	0	0
B2647-3	307	91	9.5	47.4	43.1	0.0	0	1.070	0	0	0
B2684-1	97	38	62.0	37.7	0.3	0.0	0	1.084	0	0	0
B2701-5	200	78	22.3	62.1	15.6	0.0	0	1.070	0	0	0
B2704-2	120	67	32.5	58.9	8.6	0.0	0	1.077	0	0	0
BNC177-5	288	86	14.3	47.3	38.4	0.0	0	1.081	1	0	0
BNC182-5	179	70	30.4	57.8	11.8	0.0	0	1.077	0	0	0
Harley Blackwell	421	91	9.2	52.6	37.4	0.8	0	1.080	1	0	0
Ivory Crisp	124	66	33.9	56.8	9.3	0.0	0	1.077	0	0	0
Snowden	191	71	28.9	62.4	8.8	0.0	0	1.089	0	0	0
Superior	287	90	10.0	48.7	41.2	0.0	0	1.069	0	0	0
LSD (0.05)	65							0.004			

¹ Number of tubers out of 40 with hollow heart, brown center, or other internal defects.

BARC Table 2. Continued.

Temperature Date Pedigree	50F		45F		40F		40-70F		50F		45F		40F		40-70F	
	1/6	1/6	1/7	1/7	1/9	1/9	1/26	1/26	2/2	2/2	2/4	2/4	2/5	2/5	2/18	2/18
	Chip ²	Spt ³	Chip	Spt	Chip	Spt	Chip	Spt	Chip	Spt	Chip	Spt	Chip	Spt	Chip	Spt
Atlantic	6.7	S	7.2	S	9.8	0	8.1	M	7.6	VL	7.8	L	10.0	0	8.0	VL
B2624-7	8.3	M	8.6	M	10.0	0	9.2	S	9.0	VL	9.3	VL	10.0	S	10.0	M
B2628-10	6.9	M	7.4	M	9.4	0	8.1	S	8.0	0	8.0	S	10.0	0	8.3	M
B2628-4	7.3	S	8.0	S	9.7	0	9.2	S	8.8	L	9.3	S	10.0	0	10.0	L
B2628-9	7.7	S	8.0	S	9.8	0	9.2	M	8.0	VL	8.8	L	10.0	0	8.8	VL
B2633-3	7.0	S	7.7	S	9.9	0	8.7	M	7.9	VL	8.1	VL	10.0	0	10.0	L
B2634-13	6.0	M	6.1	L	8.9	0	8.1	S	7.3	VL	7.8	VL	9.5	0	8.3	M
B2634-3	5.8	S	6.2	S	7.8	0	7.9	S	7.1	VL	7.2	VL	8.9	0	8.1	M
B2634-7	7.0	S	8.1	M	9.9	0	7.9	M	8.3	VL	8.5	VL	10.0	0	8.5	L
B2637-4	5.0	0	6.8	S	9.0	0	7.8	S	7.0	0	7.0	0	9.2	0	9.0	M
B2647-3	7.3	0	7.4	S	9.4	0	9.1	S	7.8	M	9.0	M	10.0	0	9.7	M
B2684-1	6.3	M	7.3	M	9.0	S	8.3	S	8.2	M	8.6	M	10.0	M	9.5	M
B2701-5	8.5	M	8.4	S	10.0	0	10.0	S	8.6	M	9.5	M	10.0	0	10.0	M
B2704-2	7.6	S	8.0	S	9.7	0	8.6	S	8.5	M	8.7	S	10.0	0	8.8	M
BNC177-5	6.4	M	6.0	M	9.0	0	8.1	L	7.5	VL	7.8	VL	9.5	0	8.5	VL
BNC182-5	6.4	M	6.6	M	9.3	0	8.5	L	8.0	VL	8.3	VL	9.8	0	9.1	VL
H Blackwell	6.9	S	7.4	S	9.4	0	8.9	S	8.0	VL	8.3	L	9.8	0	9.3	L
Ivory Crisp	5.4	S	5.3	S	8.3	0	7.8	S	7.6	L	7.3	M	9.0	0	8.1	M
Snowden	5.4	S	6.6	S	8.9	0	7.2	M	7.5	L	7.0	L	9.5	0	7.3	L
Superior	7.2	M	7.7	M	10.0	0	9.4	M	8.3	VL	8.9	VL	10.0	0	10.0	L

² Chips 1-7 satisfactory. ³ 0 = no sprouts; S < 0.5"; 0.5 ≤ M < 1.5"; 1.5" ≤ L < 2.5"; VL ≥ 2.5".