

Heirloom Flint Corn Variety Evaluation

University of Vermont Extension



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Ames 2355

Kernels are rounded and thin. Kernels are cream and pale yellow. Yield was less than most other varieties in this trial.



Variable	Value	Units	Notes
Days to tassel	62	Days after planting	
Days to harvest	168	Days after planting	
Plant height	226	cm	
Ear height	78	cm	Height from ground to ear attachment point
Population	11,616	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	299	Lbs. per acre	
Cob color	White		
Kernel yield	1385	Lbs. per acre	Corrected to 13% moisture
Test weight	14.6	Lbs. per bushel	
Lodging	2	0 (none) – 5 (severe)	
Ear disease	2	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Dark Yellow King Philip

Produced very tall plants with large ears attached to stalk high off ground. The stalks were thick and strong producing very good standability late into the season. Some variation in plant maturity was noted. Kernels are reddish with gold center and are very flinty. Kernels are very rounded and larger than most varieties in this trial.



Variable	Value	Units	Notes
Days to tassel	-	-	
Days to harvest	138	Days after planting	
Plant height	228	cm	
Ear height	94	cm	Height from ground to ear attachment point
Population	15,391	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	802	Lbs. per acre	
Cob color	White		
Kernel yield	3,783	Lbs. per acre	Corrected to 13% moisture
Test weight	61.0	Lbs. per bushel	
Lodging	0	0 (none) – 5 (severe)	
Ear disease	0	0 (none) – 3 (severe)	
Uniformity	-	-	

Parker's Flint

Produced plants of moderate height and stalk strength contributing to decent standability. Ears lower on stalk. Shorter relative maturity appeared well-adapted to the region. Kernels are golden and are very flinty. Kernels are bright gold with a hint of red and are very flinty. Rows and kernel size vary in consistency in size and shape.



Variable	Value	Units	Notes
Days to tassel	62	Days after planting	
Days to harvest	126	Days after planting	
Plant height	185	cm	
Ear height	43	cm	Height from ground to ear attachment point
Population	18,876	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	601	Lbs. per acre	
Cob color	White		
Kernel yield	2637	Lbs. per acre	Corrected to 13% moisture
Test weight	62	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	0	0 (none) – 3 (severe)	
Uniformity	0	0 (not uniform) – 1 (uniform)	

Winnebago Flint

The color of these kernels varies from slightly tinted pink to cream, and a slight few bright gold. Kernels are very rounded, thick and not very flinty.



Variable	Value	Units	Notes
Days to tassel	62	Days after planting	
Days to harvest	168	Days after planting	
Plant height	179	cm	
Ear height	82	cm	Height from ground to ear attachment point
Population	15,682	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	610	Lbs. per acre	
Cob color	White		
Kernel yield	1224	Lbs. per acre	Corrected to 13% moisture
Test weight	59.8	Lbs. per bushel	
Lodging	2	0 (none) – 5 (severe)	
Ear disease	2	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Tuscarora

Kernel color varies from creamy white to gold, most with a red center. Kernels have a wide rounded top and are very thin.



Variable	Value	Units	Notes
Days to tassel	63	Days after planting	
Days to harvest	166	Days after planting	
Plant height	219	cm	
Ear height	94	cm	Height from ground to ear attachment point
Population	18,005	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	2033	Plants per acre	Plants that did not form an ear
Cob yield	366	Lbs. per acre	
Cob color	40% Red 60% White		
Kernel yield	1855	Lbs. per acre	Corrected to 13% moisture
Test weight	60.8	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	0	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Gigi Hall

Produced plants of moderate height with prolific tillering. Decent stalk strength and standability. Ears lower to the ground but with husks tight to ears. Lots of Fusarium present on ears. Shorter relative maturity appeared well-adapted to the region. Kernels are variable but mostly dark blue with interspersed white and pink. Kernels are larger than most in this variety and are very thin and rectangular.



Variable	Value	Units	Notes
Days to tassel	59	Days after planting	
Days to harvest	126	Days after planting	
Plant height	181	cm	
Ear height	43	cm	Height from ground to ear attachment point
Population	16,523	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	497	Lbs. per acre	
Cob color	White		
Kernel yield	1963	Lbs. per acre	Corrected to 13% moisture
Test weight	59.5	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	0	0 (none) – 3 (severe)	
Uniformity	0	0 (not uniform) – 1 (uniform)	Uneven plant maturity and ear dry down

Washonge Corn

Produced tall plants with moderate strength and standability and long thin cream-colored ears. Little to no ear disease present. Shorter relative maturity appeared well-adapted to the region. Kernels are slightly variable, mostly creamy white with interspersed yellow. Cobs have between 10-12 rows. Slightly shorter and thicker than most flint varieties in this trial. Kernel size and shape vary across cob.



Variable	Value	Units	Notes
Days to tassel	63	Days after planting	
Days to harvest	138	Days after planting	
Plant height	208	cm	
Ear height	76	cm	Height from ground to ear attachment point
Population	18,876	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	621	Lbs. per acre	
Cob color	White		
Kernel yield	3,123	Lbs. per acre	Corrected to 13% moisture
Test weight	60.8	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	0	0 (none) – 3 (severe)	
Uniformity	-	0 (not uniform) – 1 (uniform)	

Johnny Cake Corn

Produced very tall plants with lots of tillers. Stalks were very strong with good standability despite height. Produce very long, full ears high on plant with lots of husk cover. Little ear disease except where insect damage was evident. Moderate relative maturity appeared well-adapted to the region. Kernels are golden color, very flinty, on very thin long ears.



Variable	Value	Units	Notes
Days to tassel	62	Days after planting	
Days to harvest	138	Days after planting	
Plant height	238	cm	
Ear height	101	cm	Height from ground to ear attachment point
Population	14,520	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	842	Lbs. per acre	
Cob color	White		
Kernel yield	4,245	Lbs. per acre	Corrected to 13% moisture
Test weight	62.3	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	0	0 (none) – 3 (severe)	
Uniformity	-	0 (not uniform) – 1 (uniform)	

Rhee Flint

Produced short plant with ears very low to ground. Stalks weak with poor standability. Ear diseases present. Kernels are very flinty and mostly white with golden yellow kernels interspersed.



Variable	Value	Units	Notes
Days to tassel	55	Days after planting	
Days to harvest	118	Days after planting	
Plant height	166	cm	
Ear height	46	cm	Height from ground to ear attachment point
Population	15,682	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	383	Lbs. per acre	
Cob color	White		
Kernel yield	1794	Lbs. per acre	Corrected to 13% moisture
Test weight	61.4	Lbs. per bushel	
Lodging	3	0 (none) – 5 (severe)	
Ear disease	2	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Sac Blue

Kernel color varies from deep blue/purple, gold, creamy white and pink, but are mostly light yellow. Kernels are squatty. Sac Blue produced a much lower yield than most varieties in this trial.



Variable	Value	Units	Notes
Days to tassel	63	Days after planting	
Days to harvest	168	Days after planting	
Plant height	173	cm	
Ear height	42	cm	Height from ground to ear attachment point
Population	19,457	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	871	Plants per acre	Plants that did not form an ear
Cob yield	171	Lbs. per acre	
Cob color	White		
Kernel yield	683	Lbs. per acre	Corrected to 13% moisture
Test weight	60.7	Lbs. per bushel	
Lodging	2	0 (none) – 5 (severe)	
Ear disease	3	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Creek

Produced plants of moderate height approximately 5-6', with ears very low to ground. Stalks were thin with moderate standability. Lots of ear disease present as well as insect damage. Ears variable in kernel color and irregular kernel shapes. Kernels mostly dark blue but with yellow, white, and pink interspersed. Kernels less flinty in appearance.



Variable	Value	Units	Notes
Days to tassel	59	Days after planting	
Days to harvest	118	Days after planting	
Plant height	193	cm	
Ear height	32	cm	Height from ground to ear attachment point
Population	19,747	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	290	Plants per acre	Plants that did not form an ear
Cob yield	340	Lbs. per acre	
Cob color	White		
Kernel yield	1896	Lbs. per acre	Corrected to 13% moisture
Test weight	50	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	3	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Wa-haa-ha-kow

Produced short plant with ears very low to ground. Stalks weak with poor standability. Stalks lacked the resilience to carry the ears to maturity. Ears short with 10+ rows of kernels. Ear diseases including smut present. Kernels mostly white with dark yellow interspersed. Kernels floury type, not flinty.



Variable	Value	Units	Notes
Days to tassel	59	Days after planting	
Days to harvest	118	Days after planting	
Plant height	143	cm	
Ear height	48	cm	Height from ground to ear attachment point
Population	19,166	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	453	Lbs. per acre	
Cob color	White		
Kernel yield	1297	Lbs. per acre	Corrected to 13% moisture
Test weight	50.7	Lbs. per bushel	
Lodging	3	0 (none) – 5 (severe)	
Ear disease	2	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Winnebago Spotted

Kernels were mostly colored off white, all speckled with dark blue or purple with light yellow and golden lightly interspersed. Shape and size of kernels vary widely across sample.



Variable	Value	Units	Notes
Days to tassel	63	Days after planting	
Days to harvest	168	Days after planting	
Plant height	166	cm	
Ear height	82	cm	Height from ground to ear attachment point
Population	15,391	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	290	Plants per acre	Plants that did not form an ear
Cob yield	331	Lbs. per acre	
Cob color	White		
Kernel yield	2050	Lbs. per acre	Corrected to 13% moisture
Test weight	51	Lbs. per bushel	
Lodging	5	0 (none) – 5 (severe)	
Ear disease	2	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Wa ruch skaw

Kernels were very rounded and small. Kernel color was mostly light gold with hints of bright gold and red interspersed.



Variable	Value	Units	Notes
Days to tassel	-	Days after planting	
Days to harvest	168	Days after planting	
Plant height	167	cm	
Ear height	90	cm	Height from ground to ear attachment point
Population	13,939	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	531	Lbs. per acre	
Cob color	White		
Kernel yield	1460	Lbs. per acre	Corrected to 13% moisture
Test weight	60.4	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	1	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Winnebago Mixed

Kernels were primarily dark blue/purple with a creamy white center and a few gold or white kernels interspersed. Kernels are fairly squat with rounded sides.



Variable	Value	Units	Notes
Days to tassel	-	Days after planting	
Days to harvest	168	Days after planting	
Plant height	227	cm	
Ear height	75	cm	Height from ground to ear attachment point
Population	13,939	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	276	Lbs. per acre	
Cob color	White		
Kernel yield	1626	Lbs. per acre	Corrected to 13% moisture
Test weight	52.7	Lbs. per bushel	
Lodging	3	0 (none) – 5 (severe)	
Ear disease	3	0 (none) – 3 (severe)	
Uniformity	0	0 (not uniform) – 1 (uniform)	

Assiniboine

Produced short plant with ears low to ground. Stalks with moderate standability. Ear disease present but not severe. Ears short with variable number of rows and kernel types (i.e., flinty vs floury). Kernels also variable in color with majority white and yellow but with blue interspersed.



Variable	Value	Units	Notes
Days to tassel	53	Days after planting	
Days to harvest	126	Days after planting	
Plant height	116	cm	
Ear height	40	cm	Height from ground to ear attachment point
Population	17,424	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	633	Lbs. per acre	
Cob color	White		
Kernel yield	3,364	Lbs. per acre	Corrected to 13% moisture
Test weight	55.4	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	1	0 (none) – 3 (severe)	
Uniformity	0	0 (not uniform) – 1 (uniform)	

Bear Island Chippewa

Produced short to moderate height plants approximately 5' tall with moderate tillering. Plants with moderate-low standability and ears formed low to ground. plant with ears low to ground. Stalks with moderate standability. Ear disease very prevalent. Kernels variable in color, mostly creamy white but some yellow and some darker bronze color. Kernels flinty type.



Variable	Value	Units	Notes
Days to tassel	54	Days after planting	
Days to harvest	118	Days after planting	
Plant height	174	cm	
Ear height	51	cm	Height from ground to ear attachment point
Population	16,843	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	470	Lbs. per acre	
Cob color	30% Red 70% White		
Kernel yield	2396	Lbs. per acre	Corrected to 13% moisture
Test weight	13.6	Lbs. per bushel	
Lodging	2	0 (none) – 5 (severe)	
Ear disease	3	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Longfellow

Produced moderate to tall (~5-9') plants of very good strength and standability. Ears are very long, thin with 8 rows of flinty kernels. Very little disease present. Plants somewhat variable in height and maturity. Kernels golden yellow with few dark kernels interspersed.



Variable	Value	Units	Notes
Days to tassel	59	Days after planting	
Days to harvest	138	Days after planting	
Plant height	234	cm	
Ear height	87	cm	Height from ground to ear attachment point
Population	17,424	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	650	Lbs. per acre	
Cob color	White		
Kernel yield	3,594	Lbs. per acre	Corrected to 13% moisture
Test weight	61.7	Lbs. per bushel	
Lodging	0	0 (none) – 5 (severe)	
Ear disease	1	0 (none) – 3 (severe)	
Uniformity	0	0 (not uniform) – 1 (uniform)	

Salzer's White Flint

Produced moderately tall (5-6') plants with durable stalks and ears positioned moderately high off ground. Despite low population of established plants, relatively high kernel yields were attained. However, the relatively long maturation time could pose challenges in years with shorter growing season windows or cooler weather. Kernels are a mix of creamy white and light and dark shades of golden yellow.



Variable	Value	Units	Notes
Days to tassel	-	Days after planting	
Days to harvest	166	Days after planting	
Plant height	177	cm	
Ear height	70	cm	Height from ground to ear attachment point
Population	9293	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	711	Lbs. per acre	
Cob color	White		
Kernel yield	4115	Lbs. per acre	Corrected to 13% moisture
Test weight	60.9	Lbs. per bushel	
Lodging	0	0 (none) – 5 (severe)	
Ear disease	1	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Twitchell's Pride

Produced moderately tall (~5-6') plants with moderate standability. Ears were long and thin with 8 rows of flinty, golden kernels, but many had evidence of poor pollination or tip fill and ear disease was prevalent. The relatively short maturity would be well suited to the region.



Variable	Value	Units	Notes
Days to tassel	53	Days after planting	
Days to harvest	118	Days after planting	
Plant height	198	cm	
Ear height	65	cm	Height from ground to ear attachment point
Population	16,553	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	302	Lbs. per acre	
Cob color	White		
Kernel yield	1338	Lbs. per acre	Corrected to 13% moisture
Test weight	61.4	Lbs. per bushel	
Lodging	2	0 (none) – 5 (severe)	
Ear disease	2	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

NRC 5280

Produced moderate to short plants with moderate standability. Ears were large with many rows of flinty, golden kernels, but many had evidence of poor pollination or tip fill and ear disease was prevalent. The relatively short maturity would be well suited to the region, however, maturity was variable across plants.



Variable	Value	Units	Notes
Days to tassel	55	Days after planting	
Days to harvest	118	Days after planting	
Plant height	152	cm	
Ear height	51	cm	Height from ground to ear attachment point
Population	15,682	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	700	Lbs. per acre	
Cob color	White		
Kernel yield	2027	Lbs. per acre	Corrected to 13% moisture
Test weight	60.3	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	3	0 (none) – 3 (severe)	
Uniformity	0	0 (not uniform) – 1 (uniform)	

NRC 5282

Produced moderately tall (~5-6') thin-stalked plants with moderate tillering and moderate standability. Ears were moderately long and thin with 8 rows of flinty, golden kernels. Insect damage and disease on ears were present. The relatively short maturity would be well suited to the region.



Variable	Value	Units	Notes
Days to tassel	54	Days after planting	
Days to harvest	126	Days after planting	
Plant height	196	cm	
Ear height	60	cm	Height from ground to ear attachment point
Population	21,780	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	595	Lbs. per acre	
Cob color	Variable*		*80% red, 20% white
Kernel yield	3199	Lbs. per acre	Corrected to 13% moisture
Test weight	59.2	Lbs. per bushel	
Lodging	2	0 (none) – 5 (severe)	
Ear disease	1	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

NRC 5285

Produced tall thin-stalked plants with lots of tillers and moderate to low standability. Ears were set low on plants and had disease present. Ears were moderately long and thin with 8 rows of flinty, light golden kernels. Seed yield was moderate to low in comparison to other varieties. The relatively short maturity would be well suited to the region.



Variable	Value	Units	Notes
Days to tassel	55	Days after planting	
Days to harvest	118	Days after planting	
Plant height	207	cm	
Ear height	63	cm	Height from ground to ear attachment point
Population	20,618	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	549	Lbs. per acre	
Cob color	White		
Kernel yield	2349	Lbs. per acre	Corrected to 13% moisture
Test weight	61.0	Lbs. per bushel	
Lodging	2	0 (none) – 5 (severe)	
Ear disease	2	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Longfellow Flint

Produced tall plants with good standability. Ears were set high on plants and were filled to tips. Some ear disease present. Ears were long and thin with 8 rows of flinty, dark golden kernels. The relatively short maturity would be well suited to the region.



Variable	Value	Units	Notes
Days to tassel	61	Days after planting	
Days to harvest	138	Days after planting	
Plant height	200	cm	
Ear height	97	cm	Height from ground to ear attachment point
Population	11,906	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	218	Lbs. per acre	
Cob color	White		
Kernel yield	1021	Lbs. per acre	Corrected to 13% moisture
Test weight	62.2	Lbs. per bushel	
Lodging	0	0 (none) – 5 (severe)	
Ear disease	2	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Tama Flint

Produced very tall plants with good standability. Ears were set very high on plants but some ear disease present. Kernels were deep burgundy, dark blue and purple with a creamy white center. The later maturation time of this variety is less suitable to this region.



Variable	Value	Units	Notes
Days to tassel	62	Days after planting	
Days to harvest	168	Days after planting	
Plant height	252	cm	
Ear height	101	cm	Height from ground to ear attachment point
Population	14,230	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	441	Lbs. per acre	
Cob color	25% Red 75% White		
Kernel yield	2151	Lbs. per acre	Corrected to 13% moisture
Test weight	58.8	Lbs. per bushel	
Lodging	0	0 (none) – 5 (severe)	
Ear disease	2	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

King Philip

Produced tall plants with good standability. Ears were set very high on plants but some ear disease present. Higher incidence of barren plants compared to other varieties. Kernels were red and very flinty. King Philip was one of the highest yielding varieties. The later maturation time of this variety is less suitable to this region.



Variable	Value	Units	Notes
Days to tassel	62	Days after planting	
Days to harvest	166	Days after planting	
Plant height	187	cm	
Ear height	102	cm	Height from ground to ear attachment point
Population	14,230	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	581	Plants per acre	Plants that did not form an ear
Cob yield	880	Lbs. per acre	
Cob color	Variable*		50% red, 50% white
Kernel yield	3632	Lbs. per acre	Corrected to 13% moisture
Test weight	60.9	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	2	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Eight-row (PI 217463)

Produced tall plants with strong stalks and good standability. Ears were set low on plant for height and some ear disease present. Ears were long and thin with kernels yellow to dark golden color and flinty. The shorter maturation time of this variety is suitable to this region.



Variable	Value	Units	Notes
Days to tassel	59	Days after planting	
Days to harvest	118	Days after planting	
Plant height	245	cm	
Ear height	61	cm	Height from ground to ear attachment point
Population	23,522	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	613	Lbs. per acre	
Cob color	Variable*		*90% white, 10% red
Kernel yield	2745	Lbs. per acre	Corrected to 13% moisture
Test weight	61.3	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	2	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Eight-row (PI 217464)

Produced tall plants with strong stalks and good standability. Ears were set low on plant for height and lots of ear disease present. Ears were very long and thin with light golden, flinty kernels. Seed yield was moderate compared to other varieties. The shorter maturation time of this variety is suitable to this region.



Variable	Value	Units	Notes
Days to tassel	55	Days after planting	
Days to harvest	118	Days after planting	
Plant height	238	cm	
Ear height	68	cm	Height from ground to ear attachment point
Population	15,972	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	523	Lbs. per acre	
Cob color	White		
Kernel yield	3050	Lbs. per acre	Corrected to 13% moisture
Test weight	60.8	Lbs. per bushel	
Lodging	2	0 (none) – 5 (severe)	
Ear disease	3	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Eight-row (PI 217465)

Produced tall plants with strong stalks and good standability. Ears were set low on plant for height and some ear disease present. Ears were very long and thin with golden, flinty kernels. Seed yield was low compared to other varieties. The shorter maturation time of this variety is suitable to this region.



Variable	Value	Units	Notes
Days to tassel	59	Days after planting	
Days to harvest	138	Days after planting	
Plant height	198	cm	
Ear height	69	cm	Height from ground to ear attachment point
Population	8422	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	531	Lbs. per acre	
Cob color	White		
Kernel yield	2123	Lbs. per acre	Corrected to 13% moisture
Test weight	62.5	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	2	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Flint (PI 217466)

Produced moderate to short plants with moderate strength and standability. Ears were low to ground with some disease present. Ears were moderately long with more than 8 rows of flinty, golden kernels. The shorter maturation time of this variety is suitable to this region.



Variable	Value	Units	Notes
Days to tassel	59	Days after planting	
Days to harvest	138	Days after planting	
Plant height	146	cm	
Ear height	42	cm	Height from ground to ear attachment point
Population	9583	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	366	Lbs. per acre	
Cob color	White		
Kernel yield	2122	Lbs. per acre	Corrected to 13% moisture
Test weight	60.8	Lbs. per bushel	
Lodging	0	0 (none) – 5 (severe)	
Ear disease	2	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Flint (PI 217467)

Produced moderate to tall plants with lots of tillering and moderate standability. Plants were variable in height ranging from 5-7'. Ears were low to ground with little husk cover contributing to the prevalence of ear diseases. Ears were moderately long with 8 rows of flinty, golden kernels. The shorter maturation time of this variety is suitable to this region.



Variable	Value	Units	Notes
Days to tassel	59	Days after planting	
Days to harvest	138	Days after planting	
Plant height	196	cm	
Ear height	63	cm	Height from ground to ear attachment point
Population	20,038	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	195	Lbs. per acre	
Cob color	White		
Kernel yield	928	Lbs. per acre	Corrected to 13% moisture
Test weight	62.4	Lbs. per bushel	
Lodging	0	0 (none) – 5 (severe)	
Ear disease	3	0 (none) – 3 (severe)	
Uniformity	0	0 (not uniform) – 1 (uniform)	

Golden Flint

Produced moderately tall plants with good standability. Ears with little disease but experienced heavy bird pressure. Ears moderately long in length with golden flinty kernels. The shorter maturation time for this variety is suitable for this region.



Variable	Value	Units	Notes
Days to tassel	55	Days after planting	
Days to harvest	126	Days after planting	
Plant height	188	cm	
Ear height	61	cm	Height from ground to ear attachment point
Population	15,682	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	392	Lbs. per acre	
Cob color	White		
Kernel yield	1858	Lbs. per acre	Corrected to 13% moisture
Test weight	60.6	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	0	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Yellow Flint

Produced tall plants with good standability. Ears high off ground with some disease present. Ears short with yellow flinty kernels. Seed yield was moderate to high compared to other varieties. However, the longer maturation time required for this variety may not be suitable for this region in years with cooler weather or shortened growing season.



Variable	Value	Units	Notes
Days to tassel	61	Days after planting	
Days to harvest	168	Days after planting	
Plant height	222	cm	
Ear height	71	cm	Height from ground to ear attachment point
Population	13,939	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	889	Lbs. per acre	
Cob color	Variable*		*75% white, 25% red
Kernel yield	3998	Lbs. per acre	Corrected to 13% moisture
Test weight	59.4	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	2	0 (none) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Amber Flint

Produced tall plants with good standability. Ears low to ground with disease present and some kernel sprouting. Ears short with golden to amber flinty kernels. The earlier maturation timing for this variety would be suitable for this region.



Variable	Value	Units	Notes
Days to tassel	59	Days after planting	
Days to harvest	126	Days after planting	
Plant height	194	cm	
Ear height	56	cm	Height from ground to ear attachment point
Population	19,457	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	348	Lbs. per acre	
Cob color	90% Red 10% White		
Kernel yield	1544	Lbs. per acre	Corrected to 13% moisture
Test weight	60.3	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	1	0 (none to little) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Dakota Squaw

Produced moderate height plants with very low strength leading to poor standability. Ears very low to ground with lots of disease present and some kernel sprouting. Ears variable in size and rows of kernels. Kernels variable in color, most being dark brown to red but some ears yellow to white (see photo).



Variable	Value	Units	Notes
Days to tassel	54	Days after planting	
Days to harvest	126	Days after planting	
Plant height	162	cm	
Ear height	34	cm	Height from ground to ear attachment point
Population	17,424	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	290	Plants per acre	Plants that did not form an ear
Cob yield	270	Lbs. per acre	
Cob color	90% White 10% Red		
Kernel yield	1278	Lbs. per acre	Corrected to 13% moisture
Test weight	59.7	Lbs. per bushel	
Lodging	4	0 (none) – 5 (severe)	
Ear disease	2	0 (none to little) – 3 (severe)	
Uniformity	0	0 (not uniform) – 1 (uniform)	

Smut Nose

Produced tall plants with moderate standability. Ears positioned high off ground but some disease present. Seed yield moderate to high compared to other varieties. However, the longer maturation timing of this variety may be less suitable for this region especially in years with cooler temperatures or a shortened growing season.



Variable	Value	Units	Notes
Days to tassel	62	Days after planting	
Days to harvest	168	Days after planting	
Plant height	210	cm	
Ear height	73	cm	Height from ground to ear attachment point
Population	15,682	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	781	Lbs. per acre	
Cob color	Variable*		*80% white, 20% red
Kernel yield	3955	Lbs. per acre	Corrected to 13% moisture
Test weight	60.2	Lbs. per bushel	
Lodging	2	0 (none) – 5 (severe)	
Ear disease	2	0 (none to little) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Knowlton

Produced moderately tall plants with moderate standability. Ears low to ground with some disease present. Ears long and thin with golden flinty kernels. Relatively short maturity would be suitable for this region.



Variable	Value	Units	Notes
Days to tassel	55	Days after planting	
Days to harvest	126	Days after planting	
Plant height	176	cm	
Ear height	37	cm	Height from ground to ear attachment point
Population	13,649	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	258	Lbs. per acre	
Cob color	White		
Kernel yield	1526	Lbs. per acre	Corrected to 13% moisture
Test weight	61.2	Lbs. per bushel	
Lodging	2	0 (none) – 5 (severe)	
Ear disease	0	0 (none to little) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

G7406

Produced moderately tall plants with moderate to poor standability. Ears low to ground disease present. Ears long with golden to amber colored flinty kernels. Relatively short maturity would be suitable for this region.



Variable	Value	Units	Notes
Days to tassel	55	Days after planting	
Days to harvest	126	Days after planting	
Plant height	196	cm	
Ear height	48	cm	Height from ground to ear attachment point
Population	10,745	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	183	Lbs. per acre	
Cob color	White		
Kernel yield	871	Lbs. per acre	Corrected to 13% moisture
Test weight	59.8	Lbs. per bushel	
Lodging	2	0 (none) – 5 (severe)	
Ear disease	1	0 (none to little) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Comstock Family Flint

Produce moderate to tall plants of variable height with moderate tillering and standability. Many plants produced two ears. Ears moderate to short with variable-colored flinty kernels ranging from yellow to dark red but not mixed on one ear. Some ear disease present. Short maturity well suited to this region.



Variable	Value	Units	Notes
Days to tassel	55	Days after planting	
Days to harvest	118	Days after planting	
Plant height	202	cm	
Ear height	52	cm	Height from ground to ear attachment point
Population	18,005	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	772	Lbs. per acre	
Cob color	Variable*		*60% white, 40% red
Kernel yield	4109	Lbs. per acre	Corrected to 13% moisture
Test weight	60.5	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	1	0 (none to little) – 3 (severe)	
Uniformity	0	0 (not uniform) – 1 (uniform)	

Rhode Island Double White

Produced tall plants with good standability. Ears positioned very high off ground with little disease. Kernel yield high compared to other varieties. However, later maturity may not always be suitable in this region, especially in years with cool temperatures or weather conditions that shorten the growing season.



Variable	Value	Units	Notes
Days to tassel	62	Days after planting	
Days to harvest	168	Days after planting	
Plant height	215	cm	
Ear height	103	cm	Height from ground to ear attachment point
Population	15,972	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	290	Plants per acre	Plants that did not form an ear
Cob yield	804	Lbs. per acre	
Cob color	White		
Kernel yield	4493	Lbs. per acre	Corrected to 13% moisture
Test weight	61.8	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	1	0 (none to little) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Pride of the Plains

Produced plants of moderate to short stature with severe stalk rot, poor strength and standability. Ears were very low to ground leaving them susceptible to rain splash from ground and predation by ground pests. Ears were short to moderate length with white floury kernels. Shorter maturity is suitable for this region.



Variable	Value	Units	Notes
Days to tassel	54	Days after planting	
Days to harvest	126	Days after planting	
Plant height	142	cm	
Ear height	22	cm	Height from ground to ear attachment point
Population	13,939	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	73	Lbs. per acre	
Cob color	White		
Kernel yield	349	Lbs. per acre	Corrected to 13% moisture
Test weight	52.3	Lbs. per bushel	
Lodging	5	0 (none) – 5 (severe)	
Ear disease	0	0 (none to little) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Wampum Flint

Produced tall plants with poor upper stalk strength but moderate to good standability. Ears relatively low position on plant with some disease present. Kernel yield moderate compared to other varieties. Later maturity could present challenges in some parts of the region, especially in years with cool temperatures or a shortened growing season.



Variable	Value	Units	Notes
Days to tassel	59	Days after planting	
Days to harvest	168	Days after planting	
Plant height	203	cm	
Ear height	59	cm	Height from ground to ear attachment point
Population	13,649	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	836	Lbs. per acre	
Cob color	White		
Kernel yield	3632	Lbs. per acre	Corrected to 13% moisture
Test weight	56.8	Lbs. per bushel	
Lodging	2	0 (none) – 5 (severe)	
Ear disease	2	0 (none to little) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Bronze Beauty

Produced moderately tall plants with good standability. Ears moderately high off ground with some disease present. Ears variable in size but most moderately long and thin. Kernels bronze to dark brown in color with wide range in cob coloration (photo). Seed yield high compared to other varieties. Later maturity could present challenges for some parts of the region, especially in years with cool temperatures or shortened growing seasons.



Variable	Value	Units	Notes
Days to tassel	63	Days after planting	
Days to harvest	168	Days after planting	
Plant height	175	cm	
Ear height	54	cm	Height from ground to ear attachment point
Population	16,843	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	877	Lbs. per acre	
Cob color	Variable*		*Wide range from white to dark red (photo)
Kernel yield	4187	Lbs. per acre	Corrected to 13% moisture
Test weight	60.9	Lbs. per bushel	
Lodging	0	0 (none) – 5 (severe)	
Ear disease	2	0 (none to little) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Wilbur's Rhode Island Flint

Produced moderate to tall plants with decent standability. Ears moderately high off ground with little disease present. Ears very long and thin with cream to golden colored flinty kernels. Shorter maturity well suited to the region.



Variable	Value	Units	Notes
Days to tassel	62	Days after planting	
Days to harvest	138	Days after planting	
Plant height	199	cm	
Ear height	69	cm	Height from ground to ear attachment point
Population	14,230	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	369	Lbs. per acre	
Cob color	White		
Kernel yield	1576	Lbs. per acre	Corrected to 13% moisture
Test weight	59	Lbs. per bushel	
Lodging	0	0 (none) – 5 (severe)	
Ear disease	1	0 (none to little) – 3 (severe)	
Uniformity	0	0 (not uniform) – 1 (uniform)	

Wakefield's Rhode Island Flint

Produced tall plants with moderate tillering and good strength and standability. Ears high off ground but with some disease present. Ears moderately long and thin with cream and golden flinty kernels. Shorter maturity is well suited to this region.



Variable	Value	Units	Notes
Days to tassel	-	Days after planting	
Days to harvest	138	Days after planting	
Plant height	214	cm	
Ear height	95	cm	Height from ground to ear attachment point
Population	13,068	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	290	Plants per acre	Plants that did not form an ear
Cob yield	32	Lbs. per acre	
Cob color	White		
Kernel yield	131	Lbs. per acre	Corrected to 13% moisture
Test weight	48.4	Lbs. per bushel	
Lodging	0	0 (none) – 5 (severe)	
Ear disease	1	0 (none to little) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Gray's Rhode Island Flint

Produced moderately tall plants with good strength and standability. Ears moderately low to ground with some disease present. Ears moderately long and thin with cream and golden flinty kernels. Later maturity could present challenges for some parts of the region, especially in years with cool temperatures or shortened growing seasons.



Variable	Value	Units	Notes
Days to tassel	63	Days after planting	
Days to harvest	168	Days after planting	
Plant height	189	cm	
Ear height	51	cm	Height from ground to ear attachment point
Population	14,810	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	290	Plants per acre	Plants that did not form an ear
Cob yield	276	Lbs. per acre	
Cob color	White		
Kernel yield	1628	Lbs. per acre	Corrected to 13% moisture
Test weight	61.9	Lbs. per bushel	
Lodging	0	0 (none) – 5 (severe)	
Ear disease	2	0 (none to little) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

Canada Yellow Flint

Produced moderately tall plants with good stalk strength and standability. Ears high up on plant with some disease present. Ears short with thin, golden, flinty kernels. Shorter maturity is suitable to the region.



Variable	Value	Units	Notes
Days to tassel	62	Days after planting	
Days to harvest	138	Days after planting	
Plant height	162	cm	
Ear height	79	cm	Height from ground to ear attachment point
Population	19,747	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	84	Lbs. per acre	
Cob color	White		
Kernel yield	491	Lbs. per acre	Corrected to 13% moisture
Test weight	60.5	Lbs. per bushel	
Lodging	0	0 (none) – 5 (severe)	
Ear disease	1	0 (none to little) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	

6-Nations

Produced tall plants with good stalk strength and standability. Ears were relatively low to ground for height of plant. Ears were long and thin with ear diseases present. Kernels are large, white to cream colored, and floury. Shorter maturity is suitable to the region.



Variable	Value	Units	Notes
Days to tassel	55	Days after planting	
Days to harvest	126	Days after planting	
Plant height	208	cm	
Ear height	54	cm	Height from ground to ear attachment point
Population	15,682	Plants per acre	Seeded at about 26,000 seeds per acre
Barren plants	0	Plants per acre	Plants that did not form an ear
Cob yield	781	Lbs. per acre	
Cob color	White		
Kernel yield	4266	Lbs. per acre	Corrected to 13% moisture
Test weight	52.3	Lbs. per bushel	
Lodging	1	0 (none) – 5 (severe)	
Ear disease	2	0 (none to little) – 3 (severe)	
Uniformity	1	0 (not uniform) – 1 (uniform)	