

FIELD CROPS OF CORN.

Thirteen varieties of corn were sown on half acre plots all in the same field. The soil was a sandy loam of fair quality with a strip of peaty soil and another of clay loam running across it. The plots were so arranged as to give to each about the same variety of soil. The land was manured in the spring of 1896 with about 12 tons of barn-yard manure per acre. The previous crop was experimental plots of grain on the sandy loam and roots and horse beans on the other portions. It was ploughed late in the autumn about 8 inches deep, and the manure spread in the spring was ploughed under about 6 inches deep and harrowed with the smoothing harrow before planting. The corn was all planted in hills three feet apart each way on 22nd May, came up 4th to 6th June and was cut for silo on 25th September. The weight of crop from these varieties, and their condition when cut was as follows:—

	YIELD PER ACRE.	
	Tons.	Lbs.
Early Mastodon—Height 9 to 11 feet, well cobbled, grain formed but in a watery condition	15	1750
Pride of the North—Height 10 to 12 feet, well cobbled, grain formed but in a watery condition	16	910
Leaming—Height 9 to 11 feet, well cobbled, grain nearly in the early milk stage	17	1150
Cuban Giant—Height 9 to 12 feet, ears formed but in an immature watery condition	17	190
Red Cob Ensilage—Height 10 to 12 feet, well cobbled, but grain not formed	21	1830
Pearce's Prolific—Height 7 to 8 feet, well cobbled, in dough stage, beginning to ripen	13	370
Giant Prolific Ensilage—Height 10 to 12 feet, well cobbled, grain forming but in watery condition	17	120
Champion White Pearl—Height 9 to 11 feet, well cobbled, ears in early milk stage	19	338
White Cap Yellow Dent—Height 9 to 11 feet, well cobbled, grain in dough stage	15	1210
Sanford—Height 9 to 11 feet, well cobbled, grain in dough stage	12	1674
King of the Earliest—Height 8 to 10 feet, well cobbled, grain in dough stage	11	1012
Early Huron Dent—Height 8 to 10 feet, well cobbled, grain in dough stage	10	680
Canada White Flint—Height 8 to 10 feet, well cobbled, grain in dough stage	13	860

Rural Thoroughbred White Flint.—3½ acres.—This field was adjoining the thirteen half acre plots just referred to, and the soil and treatment was the same. It was sown 23rd May, came up 6th June and was cut 24th September. Height 8 to 10 feet, well cobbled, grain formed, but not yet in early milk. Yield per acre 14 tons 970 lbs.

Longfellow—3 acres.—Soil a sandy loam of fair quality which received a dressing of barn-yard manure about 18 tons per acre early in the spring of 1894. Has received no manure since. The previous crop was oats seeded with Mammoth Red clover 8 lbs. per acre. After the oat crop was harvested the clover was allowed to grow until the 25th of May following, by which time it had attained a height of 12 to 14 inches and had formed a heavy mat of foliage. This was ploughed under about 6 inches deep, disc harrowed twice and harrowed twice with the smoothing harrow which brought the land into good condition for planting. Planted in hills three feet apart each way 30th May, came up 9th June and was cut 21st September. Height 7 to 10 feet, well cobbled, grain well advanced in the dough stage. Yield per acre, 14 tons 615 lbs.