

Fodder Corn. 64 varieties of fodder corn were grown at the station during 1891 and 1892. They were all planted upon duplicate plots each year. The seed was dropped in hills 5 links or 39.6 inches apart both ways. Seeding took place in 1892, on May 14th, with one set of plots, and on May 28th with the duplicate plots. Four plants were allowed to grow in each hill in 1891 and five in 1892. Thorough shallow cultivation was given the rows both ways.

The results from seven varieties which gave the highest yields for two years, are as follows :

Varieties.	Kind of Corn.	Condition of grain when harvested.	Yield of ears per acre when harvested.	Average yield of crop per acre 1891-1892.
Mammoth White Surprise.....	white dent...	water	lb.	tons.
Brazilian Flour	white flint...	water	1,894	22.2
Chester County Mammoth.....	yellow dent...	water	484	22.0
Mastodon Dent	yellow dent...	water	2,340	20.9
Blunt's Prolific	white dent...	late milk..	5,717	20.0
Coud's Early Yellow	yellow dent...	early milk..	2,508	20.0
Thoroughbred White Flint.....	white flint...	dough	6,898	20.0
			8,494	19.9

The varieties mentioned in the above list, although heavy yielders, are somewhat late in reaching maturity. The Thoroughbred White Flint which has been grown at this station for several years and also distributed over Ontario for co-operative tests, has shown itself to be well suited to the southern portions of the Province. Of the earlier maturing varieties the Mammoth Coban, Salzer's South Dakota, Salzer's North Dakota, Wisconsin Earliest White Dent and Compton's Early have done exceedingly well. The Giant Beauty and the Silver Flint are very promising of the varieties grown for one year only.

CONCLUSIONS.

The following conclusions may be safely drawn from the different experiments summarised in the Bulletin :

- (1) That several of the most promising varieties of roots, potatoes and fodder corn are comparatively new in Ontario.
- (2) That the roots and potatoes grown for two years, mentioned in this bulletin, gave the following yields per acre: Mangels 920.4 bush., Fall Turnips 769.6 bush., Swede Turnips 712.9 bush. and Potatoes 149.7 bus.
- (3) That white fleshed turnips gave better yields than the yellow fleshed varieties; the long shaped Mangels better than the globe varieties; the white Carrots better than the yellow varieties and the dent corns better than the flint varieties.