

tain variety may lead all the others in both yield and dry matter per acre for one year, or even for a period of years, when the next year's results will show it in last place. The natural and correct conclusion to draw from such a phenomenon is that some change in soil or weather condition influenced that particular variety much more than it did the others. The only way, therefore, to obtain reliable information from a series of variety tests with field roots, is to compare the average yield of each variety for a number of years. By following this method the variety which, say at the end of a period of five years, shows the highest average may, with other factors being equal, be considered as the most useful variety to grow.

VARIETIES RECOMMENDED.

From the average of five years' results from the variety tests conducted at the Dominion Experimental Farm, Ottawa, Ontario, and from the average of the analyses, for the same length of time made by the Dominion Chemist with the same varieties grown at Ottawa, we are prepared to recommend the varieties of mangels, swedes and carrots, mentioned below:—

MANGELS.

Five Years Average.

Variety.	Yield per acre.		Dry matter per acre.	
	Tons.	Lb.	Tons.	Lb.
Giant Half Sugar White	34	450	4	64
Selected Yellow Globe	38	29	4	60
Giant Yellow Intermediate	30	340	3	1,147
Prize Mammoth Long Red	28	277	3	334
Gate Post	28	400	3	96

DESCRIPTION OF VARIETIES.

Giant Half Sugar White is a long, greenish white variety, somewhat rough and ununiform in shape although usually large. It has a fairly heavy top and is often broken in handling. Its keeping quality may be considered as fair.

Selected Yellow Globe is a yellow globe-shaped variety of fairly uniform size and shape. It has a small top and is easy to handle. Its keeping quality is only fair.

Giant Yellow Intermediate is a half long variety, yellowish orange in colour; large but fairly uniform in size and shape with a medium sized top. It is easy to handle and of good keeping quality.

Prize Mammoth Long Red is a large, long, red variety, somewhat ununiform in type and rather inclined to be rough in shape. It has a heavy top and is considered hard to handle. Its keeping qualities are good.

Gate Post is a long, red variety somewhat inclined to be rough in shape and unevenly large in size. The top is rather heavy and the root is sometimes faulted as being disagreeable to handle. Its keeping qualities are good.