

well attended in the hoeing season, as the crop was very clean. Measured off 25 feet square, which produced 715½ lbs., equal 884 ½ 60 bushels per acre, or 25 tons 85lbs. Mr. Weir gave the following as his mode of culture:—Soil, sand loam, barley stubble, 12 loads of farm yard manure per acre, and ploughed in the fall 9 inches deep with the trench plough, cross ploughed in the spring as soon as the land became sufficiently dry, then harrowed and rolled until a fine tilth was secured; ploughed a second time about the 1st June, and again harrowed and rolled; commenced sowing on the 6th June, and finished on the 11th June; used 2¼ lbs of seed per acre; drills 28 inches asunder, in which was sown 300 lbs. of bone dust per acre. In the same field Mr. Weir had a considerable piece of Kohl Rabi, the first we have seen growing in the field in the Province. We hope he will give the result of his experience in this as a field crop, through the columns of the Canadian *Agriculturist*.

5th. Mr. Wm. Crawford, Ancaster, three acres of purple top Swede—a fair crop, with but few blanks, and very clean; soil clay loam, after barley stubble, twelve loads of farm yard manure per acre, ploughed in fall and thoroughly cultivated in spring; drills twenty-eight inches asunder, seed sown 15th June. Produce of 25 feet square, 572¾ lbs., equal to 668 12 00ths bushels per acre, or 20 tons, 92 lbs.

WEDNESDAY, October 21.

6th. William A. Cooley, Ancaster, 5 acres old purple top Swede. Soil, clay loam and black alluvial, after oat and pea stubble; twenty load of farm yard manure per acre, and ploughed in fall with trench plough, cultivated in spring, ploughed again, harrowed and rolled in the beginning of June, drills 24 inches asunder; seed sown 16th, 17th, and 25th of June, at rate of 3 lbs. per acre. Produce of 25 feet square, 598½ lbs., equal to 698 15 60ths bushels per acre, or 20 tons 18 cwt. 75 lbs.

7th. Thomas Dunbar, Ancaster, six acres Laing's and purple top, bulbs small. Produce of 25 feet square, 490¾ lbs., equal to 572 32 60ths, bushels per acre, or 17 tons 3 cwt. 52lbs.

Mr. Dunbar also competed with carrots, white Belgian, roots very small. Measured off 25 feet by 12½ feet, producing 166½ lbs., equal to 388 50 60ths bushels per acre, or 11 tons, 13 cwt. 10 lbs. We did not get his mode of culture.

8th. Mr. Jonathan Kelly, Ancaster, two acres Skirvings and Laings, bulbs large and well shaped. Soil, sand loam, clover sod, manured with farm yard manure and ploughed in fall, cultivated May 15th, ploughed second time June 1st, and harrowed, drills 28 inches asunder, seed sown June 25 and 26. Measured off 25 feet square, producing 598 lbs.,

equal to 691 50 60ths bushels per acre, or 20 tons 15 cwt. 50 lbs.

We also report that there were several pieces of mangold wurzel entered, but were not measured, in consequence of their being so very far short of crops.

We have great satisfaction in being able to speak in the highest terms of the appearance of the whole of the fields which we examined, with the exception of one or two.

We have been enabled, through the Secretary, to furnish the subjoined table, showing the maximum and the minimum yields of the competitions since 1859.

Having, we believe, fully ascertained the above mentioned facts, we feel it our duty to award the prizes as follows:—

**TURNIPS.**—1st, Thomas Stock, East Flamboro; 2nd, John Weir, West Flamboro; 3rd, Wm. A. Cooley, Ancaster; 4th, Jonathan Kelly, Ancaster.

**CARROTS.**—1st, H. R. O'Reilly, East Flamboro; 2nd, Thomas Stock, East Flamboro.

TABLE SHOWING THE YIELD OF THE DIFFERENT PIECES ENTERED FOR COMPETITION.

No.	Names.	Township.	Yield per acre.	
			Tons.	cwt. lbs.
1.	Thomas Stock,	E. Flamboro,	25	6 43
2.	John Weir,	W. Flamboro,	23	0 38
3.	W. A. Cooley,	Ancaster,	20	18 5
4.	Jonathan Kelly,	do,	20	5 10
5.	Wm. Crawford,	do,	20	0 52
6.	Thomas Dunbar,	do,	17	3 51
7.	Clarkson Applegarth,	E. Flamboro,	13	4 28

#### CARROTS.

1.	H. R. O'Reilly,	E. Flamboro,	23	8 70
2.	Thomas Stock,	do,	17	5 60
3.	Thomas Dunbar,	Ancaster	11	13 30

TABLE SHOWING THE MAXIMUM AND MINIMUM YIELD OF TURNIPS FROM 1859 TO 1863.

Year.	Pieces Entered.	Maximum Yield.			Minimum Yield.		
		Tons.	cwt.	lbs.	Tons.	cwt.	lbs.
1859.	6	26	11	0	11	10	
1860.	15	39	0	0	21	12	
1861.	10	32	0	0	25	0	
1862.	11	39	0	0	21	7	
1863.	10	25	6	45	13	4	2

All of which is respectfully submitted.

JAMES McMONIES.

JOHN SMITH.

THOMAS HATT.

Hamilton, Oct. 22nd, 1862.

## PATENTS OF INVENTION.

BUREAU OF AGRICULTURE AND STATISTICS  
PATENT OFFICE.—Quebec, Oct. 15, 1863.—His Excellency the Governor General has been pleased to grant Letters Patent of Invention for a period of fourteen years, from the dates thereof, to the following persons, viz:—

Valentine Mitchell, junior, of the township of Cavan, in the County of Durham, machine and farmer, for "A Wood Cutting Machine." (Dated 12th January, 1863.)

Thomas Webster, of the Village of Brantton, in the County of Peel, for "Improved Motion for Straw Cutters."—(Dated 12th January, 1863.)