

less hardy varieties. Between the 12th and 22nd of May, there was frost on six different nights, and on one occasion a minimum thermometer on the College grounds registered only 22 degrees above zero. This late spring frost checked the growth of the crop considerably, but did not seem to do much injury further than this.

The past year has furnished us an excellent opportunity for studying the comparative hardness of the different varieties under test, and some valuable object lessons under this head were furnished the thousands of Ontario farmers who visited the College in the month of June and witnessed the work which is being carried on in the Experimental Department.

VARIETIES TESTED.

One hundred and two varieties of winter wheat were under test. The plots, as already intimated, were situated side by side and were exactly uniform in size. They were separated from each other by paths three feet wide. All the varieties were sown by hand at the rate of two bushels per acre, on September 6th, 1894, and the germination was quite uniform throughout. The varieties ripened between the 16th and 24th of July, which was about a day later than in 1894. The amount of rust and smut was small this season.

The following table gives the number of varieties tested and reported on within the past six years and also the average yields for each of these years :

Year.	Number of varieties grown each year.	Average weight of grain per measured bushel.	Average yield of—	
			Straw per acre.	Grain per acre.
1890.....	15	lbw. 60.0	tons. 2.4	bush. 30.9
1891.....	23	63.3	2.0	52.9
1892.....	44	60.5	3.2	42.6
1893.....	52	58.4	2.1	29.9
1894.....	80	60.8	4.0	16.7
1895.....	101	60.4	1.2	26.1

It will be observed that there are great variations in the average results for the different years as given in the above table. The highest record in quality and yield of grain was made in 1891. That year an excellent opportunity was given for a comparison of the different varieties when grown under climatic conditions very favorable for the best development of the plants. In the years 1892 and 1894, much valuable information was obtained in regard to the compara-

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