

Experimental Farms.

CROSS-BRED WHEATS.

The result of the tests of the cross-bred wheats during the past season, was not very satisfactory. All gave a large quantity of straw and there were fair yields of nearly all the sorts tried, but the grain was poor except in two cases and these were not equal to Red Fife. This was caused to a great extent, no doubt, by the hot winds of August 6th, as other varieties sown alongside the cross-bred sorts were, with few exceptions as badly hurt.

Stanley and Alpha, beardless sorts, give promise of being the most valuable of all thus far tested. These two gave 35·10 and 32·10 respectively per acre, of fairly good grain and were 4 and 5 days earlier than Red Fife sown alongside for comparison. The results of a test of 12 varieties of these cross-bred wheats sown on $\frac{1}{10}$ th acre plots have been given and the yields of 9 varieties which were sown on acre plots will be found below. The small plots are of new sorts, tested here for the first time, and have occupied too small an area to admit of a satisfactory calculation as to yield per acre.

TESTS OF CROSS-BRED WHEATS ON ONE ACRE PLOTS.

Name of Variety.	Cross between	Sown.	Headed.	Ripe.	Matured in.	Height.	Yield	Weight
					Days.		per Acre.	per Bushel.
					Days.	Ft.	Bush.	Lbs.
Abundance.....	Ladoga and Red Fife.	May 2.	July 21.	Aug. 19.	110	4·7	24	56½
Carleton.....	do do	do 2.	do 19.	do 19.	110	4·7	37·15	58
Ottawa.....	do do	do 2.	do 19.	do 19.	110	4·7	20	56½
Stonewall.....	do do	do 2.	do 19.	do 18.	109	4·7	22·24	57½
Trial.....	do do	do 2.	do 19.	do 18.	109	4·7	27·15	60
Advance.....	Ladoga and White Fife	do 2.	do 19.	do 20.	111	4·7	28·9	59
Manifold.....	do do	do 2.	do 23.	do 20.	111	4·6	31·20	59½
Albert.....	Ladoga and Red Fife.	do 2.	do 18.	do 18.	109	4·7	25·27	57
A. No. 1.....	do do	do 2.	do 15.	do 15.	106	4·7	30·40	58½

SMALL PLOTS.

New Hybrids.....	Red Fife and Club Bombay.	May 4.	July 21.	Aug. 22.	111	4·6	Plot small and no yield taken.
	Red Fife and Ladoga.	do 4.	do 22.	do 23.	112	4·6	
	Anglo-Canadian and Karachi.	do 4.	do 12.	do 24.	113	4·7	do
	Red Fife and Ladoga (Red Chaff.)	do 4.	do 21.	do 23.	112	4·7	do
	Spiti Valley and Red Fife (beardless.)	do 4.	do 10.	do 22.	111	4·7	do

GENERAL RESULT OF WHEAT TESTS FOR 1893.

On account of there being no spring or fall frosts to injure any of the varieties of wheat tested, it may safely be said that Red Fife has given the best results in every respect.

The result of the wheat tests, on the whole, the past season, has not been altogether satisfactory. While the crop of straw in all the varieties was large, the hot winds in August injured the grain in all the late kinds considerably, and caused it to ripen prematurely, but early sorts, such as the Gehun, which were well advanced before the hot winds came suffered less. The result of the injury is not so much observed in the yield as in the weight and quality of the grain.