

Experimental Farms.

TEST OF SOWING DIFFERENT QUANTITIES OF SEED PER ACRE.

In this test Red Fife was used and sown on 3rd May. The highest yield was obtained from $1\frac{1}{4}$ bushels per acre closely followed by $1\frac{1}{2}$ bushels seed. All the plots ripened together.

Name of Variety.	Seed per acre.	Sown.	Headed.	Ripe.	Matured in.	Height.	Yield per acre.	Weight per bush.
	Bush.				Days.	Ft. in.	Bus. lbs.	
Red Fife.....	1	May 3..	July 23..	Aug. 28..	118	4 6	38 50	62 $\frac{1}{2}$
do	1 $\frac{1}{4}$	do 3..	do 23..	do 27..	117	4 6	40 00	60 $\frac{1}{2}$
do	1 $\frac{1}{2}$	do 3..	do 23..	do 27..	117	4 6	39 40	62 $\frac{1}{2}$
do	1 $\frac{3}{4}$	do 3..	do 23..	do 27..	117	4 6	37 30	61 $\frac{1}{2}$

TEST OF LAND TREATED WITH SUPERPHOSPHATE OF LIME AND FIELD LIME.

In this test three plots of $\frac{1}{6}$ th acre each were sown with Red Fife at the rate of $1\frac{1}{2}$ bushels per acre. On one plot 50 pounds of superphosphate of lime was sown; a second plot had 60 pounds of field lime (air slacked) sown on it, and the third plot was untreated.

The plot on which field lime was used gave at the rate of 4 bushels per acre more than either of the other two. The superphosphate of lime plot was one day earlier in ripening.

The details of the test are as follows:—

Name of Variety.	Treatment per acre.	Sown.	Headed.	Ripe.	Matured in.	Height.	Yield per acre.	Weight per bush.
					Days.	Ft. in.	Bus. lbs.	Lbs.
Red Fife.....	50 lbs. Sup. ph. lime.....	May 4..	July 22..	Aug. 26..	115	4 6	36 ..	61
do	60 lbs. field lime.....	do 4..	do 21..	do 27..	116	4 6	40 50	62 $\frac{1}{2}$
do	Untreated.....	do 4..	do 21..	do 27..	116	4 6	36 20	60 $\frac{1}{2}$

TEST OF BROADCAST, DRILL AND PRESS-DRILL SOWING.

Red Fife was used also in this test and the three plots were sown on the same date. The broad-cast plot was so much injured by winds that it was ploughed up and re-sown on 29th May.

Name of Variety.	How Sown.	Sown.	Headed.	Ripe.	Matured in.	Height.	Yield per acre.	Weight per bush.
					Days.	Ft. in.	Bus. lbs.	Lbs.
Red Fife.....	*Broadcast	May 29..	Aug. 2..	Aug. 29..	93	4 6	25 40	60
do	Drill	do 4..	July 23..	do 28..	117	4 8	36 18	62 $\frac{1}{2}$
do	Press-drill.....	do 4..	do 21..	do 26..	115	5 ..	38 20	62 $\frac{1}{2}$

*Re-sown May 29th.