

TEST OF STUBBLE FALL PLOUGHED, SPRING PLOUGHED, WITHOUT PLOUGHING AND FALLOWED LAND.

In this test two acres of stubble land was ploughed in the fall of 1892, two acres of stubble ploughed with a gang plough at the time of seeding, two acres of stubble land sown by press drill without ploughing and not touched before or after using drill, and two acres of fallow were sown. The stubble in all cases had been fallowed in summer of 1891 and had produced a crop of Red Fife in 1892.

The fallow land gave much the better result, and the fall ploughing the result expected, and the result that has always been had in our experience, a much smaller crop no matter how well the work may be done. Spring-ploughing and the plot sown by the press-drill without ploughing, gave a fine crop of straw and a good yield of grain, but the sample was shrunken.

TEST OF FALL AND SPRING PLOUGHING AND PRESS-DRILL ON STUBBLE COMPARED WITH SUMMER FALLOW.

Name of Variety.	Mode of Cultivation.	Sown.	Headed.	Ripe.	Matured in.	Height.	Condition.	Yield per acre.	Weight per bush.
					Days.	Ft. in.		Bus. lbs.	Lbs.
Red Fife..	Fall ploughing; stubble..	May 2	July 15	Aug. 21	112	4 4	Light...	22 10	59
do ..	Spring do do ..	do 2	do 18	do 23	114	4 6	Medium	31 30	60
do ..	Press-drill; stubble.....	do 2	do 15	do 21	112	4 6	Medium	29 50	59½
do ..	Fallow.....	do 3	do 21	do 23	113	4 7	Good...	37 50	60

SMUT TESTS.

Two kinds of seed were used in these tests; one badly affected by smut and the other almost entirely free from it.

The same treatment was given in each case namely, one pound of bluestone in one and one half pails of water to 5, 7 and 10 bushels wheat; all mixed on the barnfloor and turned over several times. The heads were counted on six feet square in each plot.

RESULTS OF SOWING SMUTTY WHEAT, TREATED AND UNTREATED.

Name of Variety.	Treatment.	Sown.	Headed.	Ripe.	Good heads.	Smutty heads.	Yield per acre.	Weight per bush.
							Bus. lbs.	Lbs.
<i>Seed badly affected.</i>								
Red Fife.....	Untreated.....	May 4	July 23	Aug. 29	1,452	251	24 10	57½
do ..	1 lb. to 10 bush.....	do 4	do 23	do 27	1,648	8	34 20	59½
do ..	1 lb. to 7 bush.....	do 4	do 23	do 27	1,760	9	33 50	60½
do ..	1 lb. to 5 bush.....	do 4	do 23	do 27	1,590	6	31 20	61½
<i>Seed not badly affected.</i>								
Red Fife.....	Untreated.....	do 4	do 23	do 26	1,480	28	28 10	60½
do ..	1 lb. to 10 bush.....	do 4	do 23	do 26	1,536	3	28 20	60½
do ..	1 lb. to 7 bush.....	do 4	do 23	do 26	1,700	2	30 30	60
do ..	1 lb. to 5 bush.....	do 4	do 23	do 26	Record lost.		29 ..	60