

with the broadcast seeder. The straw was longer where the press-drill was used and the grain ripened 3 days in advance of either of the other two.

Name of Variety.	Sown.	Headed.	Ripe.	Ma- tured in.	Height.		Weight of Straw.	Yield per Acre.		Weight per Bushel
					Days.	Ft. in.		Lbs.	Bush. lbs.	
California Prolific, press-drill.	May 8	July 20	Aug. 19	104	4	8	226	55	..	49
do common drill.	do 8	do 20	do 18	101	4	6	163	48	..	48
do broadcast seeder.	do 8	do 23	do 19	104	4	6	182	45	20	47½

TEST OF STUBBLE VS. FALLOW.

In this test four acres of stubble were ploughed in the fall of 1892 and four acres fallowed during the same year. Two bushels per acre of California Prolific Barley were sown by drill. The stubble land used was in rather a low place and was situated alongside of a railway embankment, both of which helped the grain when the hot winds came. The embankment especially breaking the force of the hot blasts as they passed over.

Name of Variety.	Land.	Sown.	Headed.	Ripe.	Ma- tured in.	Height.		Yield per Acre.		Weight per Bushel.
						Days.	Ft. in.	Bush. lbs.	Lbs.	
California Prolific	Fallow	May 9.	July 20.	Aug. 14.	98	4	2	48	10	48
do	Fall ploughing of stubble	do 9.	do 17.	do 12.	96	4	1	41	32	47

TEST OF SOWING DIFFERENT QUANTITIES OF SEED PER ACRE—ONE-TENTH ACRE PLOTS

In these experiments California Prolific was again used. The soil was a heavy clay loam, which had been fallowed and was in good order. Two bushels per acre gave the best return, and the crop matured in two days less time than either 1¼ or 1½ bushels.

Name of Variety.	Quantity of Seed per Acre.	Sown.	Headed.	Ripe.	Ma- tured in.	Height.		Weight of Grain and Straw.	Yield per Acre.		Weight per Bnshel.
						Days.	Ft. in.		Lbs.	Bush. lbs.	
California Prolific	2	May 8	July 20.	Aug. 14.	99	4	3	308	48	14	48½
do	1½	do 8	do 20.	do 16.	101	4	3	316	44	28	49
do	1¼	do 8	do 20.	do 16.	101	4	4	229	43	44	47