

Experimental Farms

the Central Farm in 1892, and Nos. 5, 7, 9 and 13 that of Dr. A. P. Saunders at the branch farm at Agassiz in 1892. All these have been carefully watched and selected ever since they were originated, all six-rowed sports have been rejected and the types of most of them are now fairly well fixed.

The chief objects in view in producing these hybrids of two-rowed and six-rowed barley were to endeavour to add to the list of vigorous and productive sorts, to bring about earlier ripening in the two-rowed varieties and longer heads with a greater propensity to stooling in the six-rowed sorts which would probably bring larger crops.

FIELD CROP OF TWO-ROWED BARLEY.

Canadian Thorpe.—Three acres. Sown on light sandy loam. The land received a light dressing of barn-yard manure—about 10 tons per acre—in the spring of 1896; was previously manured in the spring of 1895 with 8 tons of barn-yard manure per acre; the previous crop was corn. The land was ploughed in the spring of 1896 about 6 inches deep and harrowed with the smoothing harrow before sowing. Sown 5th May; 2 bushels per acre; came up 11th and 12th May, and was ripe 6th August. The time to mature was 93 days. Yield per acre, 30 bushels 6 lbs; weight per bushel, 52½ lbs. Length of head 2½ to 3¼ inches; two-rowed; length of straw, 33 to 38 inches; all standing well; growth medium and somewhat uneven; some smut; leaves and stems slightly rusted.

SIX-ROWED BARLEY—TEST OF VARIETIES.

Name of Variety.	Date of Ripening.	No. of days Maturing.	Length of Straw.	Character of Straw.	Length of Head.	Yield per Acre.		Proportion Rusted.
						Bush. Lbs.	Lbs	
			Inches.		Inches.			
Odessa ..	July 29.	86	46 to 50	Fair	2½ to 3	69	8	49 None.
Royal ..	do 29.	86	41 to 46	do	2¾ to 3	62	4	48½ Slightly.
Champion ..	do 26.	82	50 to 54	do	2½ to 3	61	12	42½ None.
Mensury ..	do 30.	87	48 to 54	do	3 to 4	61	2	47½ Very slightly.
Baxter's ..	do 26.	83	48 to 52	do	2½ to 2¾	60	46½	46½ Slightly.
Trooper ..	do 29.	85	39 to 44	Stiff	2 to 3	58	46	49½ do
Summit ..	do 29.	86	36 to 46	Fair	2½ to 3	58	46	51 None.
Phoenix ..	do 25.	82	42 to 48	do	2 to 2¾	58	36	47 do
Excelsior ..	do 26.	82	48 to 53	do	2¾ to 3	57	24	44 do
Pioneer ..	Aug. 1.	89	42 to 48	do	2½ to 3	56	32	51 Slightly.
Stella ..	July 26.	83	42 to 45	do	2¾ to 3½	55		49 None.
Common ..	do 26.	83	40 to 46	do	2½ to 3½	54	38	48½ do
Mansfield ..	Aug. 1.	88	43 to 52	do	2½ to 3½	53	36	47½ do
Nugent ..	July 31.	88	42 to 48	do	2½ to 3	50	10	47½ Slightly.
Yale ..	do 31.	88	48 to 56	Stiff	2½ to 3	49	23	47½ Very slightly.
Albert ..	Aug. 3.	91	55 to 58	Fair	3½ to 4½	49	8	47 do
Brome ..	July 31.	88	44 to 48	do	2½ to 3	48	36	48½ Slightly.
Oderbruch ..	Aug. 1.	88	43 to 47	Stiff	2½ to 3	48	26	49½ None.
Empire ..	do 1.	89	48 to 54	Fair	2½ to 3	47	14	50 Slightly.
Rennie's Improved ..	July 26.	83	42 to 49	Stiff	2 to 2¾	47	4	48 None.
Blue (long head) ..	Aug. 2.	89	42 to 46	Fair	2¾ to 3½	47	4	43½ Very slightly.
Claude ..	do 1.	88	36 to 45	do	2¾ to 4	46	32	45½ Slightly.
Vanguard ..	July 24.	81	34 to 42	Stiff	2¾ to 3½	46	32	47 None.
Petschora ..	do 23.	80	36 to 48	do	3 to 3½	45	40	46½ do
Blue (short head) ..	Aug. 8.	95	36 to 40	do	1¾ to 2	45	40	42½ Slightly.
Garfield ..	July 31.	88	51 to 60	do	2½ to 3	44	18	47½ do
Success ..	do 24.	80	36 to 48	do	2 to 3	43	46	45½ None.
Argyle ..	Aug. 3.	91	48 to 54	Fair	2¾ to 3½	43	16	46½ Slightly.
Surprise ..	do 1.	89	30 to 48	Stiff	2 to 2¾	41	2	50½ do