

manure per acre, the manure being placed on the land during the winter in small piles of about half a cartload each and spread in the spring. This manure was ploughed under in the spring about six inches deep and harrowed twice with the smoothing harrow before sowing. The land had received no manure or other fertilizer since the spring of 1892, the previous crop was horse beans.

TWO-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.	Weight per bushel.	Rusted.
Bolton	Aug. 7.	91	48	Medium	3½ to 5	51 2	52	Slightly.
Newton	do 7.	94	48 to 52	Fair	3 to 3½	51 2	51	Very slightly.
Danish Chevalier	do 9.	96	42 to 54	Stiff	4 to 5	50 10	49	do
Canadian Thorpe	do 7.	94	48 to 55	Fair	3 to 3½	49 28	50½	do
Kinver Chevalier	do 8.	95	48 to 54	Weak	4½ to 5½	49 8	49½	do
Pacer	do 4.	91	48	Medium	3 to 4	48 6	52	Slightly.
Logan	do 1.	88	48 to 60	Stiff	2½ to 4½	47 44	51	Very slightly.
Victor	do 4.	91	48	Medium	3 to 4½	46 32	51½	do
Leslie	do 1.	88	48 to 52	Stiff	3 to 4	46 27	52	do
Douglas	do 7.	94	48 to 56	Medium	2½ to 4	46 12	46½	do
Sidney	do 3.	90	48 to 52	do	3 to 4½	46 12	50½	do
Dunham	do 1.	88	48 to 58	Fair	2½ to 4	46 7	50½	do
French Chevalier	do 10.	97	42 to 54	Weak	3½ to 5	45 40	48½	do
Nepean	do 4.	91	48 to 58	Fair	3 to 4½	45 30	52	do
Kirby	do 1.	88	42 to 48	Medium	3 to 4½	45 30	51	do
Jarvis	do 5.	92	48 to 56	Stiff	3 to 5	45 5	50½	do
Suffolk Coast Chevalier, No. 1	do 7.	94	48	Weak	3½ to 4½	44 38	48½	do
Thanet	do 8.	95	45 to 51	do	4 to 5	44 28	48	do
Beaver	do 7.	94	44 to 48	Fair	3 to 4	44 8	51½	do
Suffolk Coast Chevalier No. 2	do 7.	94	44 to 48	do	4 to 5	44 8	49½	do
Prize Prolific	do 8.	95	48 to 52	Weak	4 to 5	41 42	46½	do
Prolific (Wrinch)	do 7.	94	42 to 48	do	3½ to 4½	40 40	48½	do
Duck-bill	do 7.	94	48 to 54	Stiff	2½ to 3½	39 28	49½	do
California Prolific	do 7.	94	46 to 52	Fair	3 to 3½	39 28	51½	do
Gordon	do 1.	88	51 to 60	Stiff	2½ to 4½	38 36	52	do
Harvey	do 3.	90	52 to 60	Medium	2½ to 4½	38 31	50½	do
Monck	do 8.	95	51 to 55	do	3½ to 4½	36 42	51½	Slightly.
Rigid	do 8.	95	48 to 55	do	3 to 3½	34 38	50½	do

In the foregoing list of two-rowed varieties there are thirteen new hybrid sorts which have been produced at the experimental farms. The following are the names and parentage of these new forms :

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|---|--------|------------------------------|------|
| 1. Bolton—Swedish (two-rowed)..... | Female | Baxters (six-rowed)..... | Male |
| 2. Pacer—Swedish (two-rowed)..... | do | Baxter's (six-rowed)..... | do |
| 3. Logan—Baxter's (six-rowed)..... | do | Duck-bill (two-rowed)..... | do |
| 4. Victor—Swedish (two-rowed)..... | do | Baxter's (six-rowed)..... | do |
| 5. Leslie—Rennie's Improved (six-rowed)... | do | Duck-bill (two-rowed)..... | do |
| 6. Sidney—Swedish (two-rowed)..... | do | Baxter's (six-rowed)..... | do |
| 7. Dunham—Duck-bill (two-rowed)..... | do | Rennie's Imp. (six-rowed)... | do |
| 8. Nepean—Swedish (two-rowed)..... | do | Baxter's (six-rowed)..... | do |
| 9. Kirby—Rennie's Improved (six-rowed)... | do | Duck-bill (two-rowed)..... | do |
| 10. Jarvis—(four-rowed)..... | do | Canadian Thorpe (two rowed) | do |
| 11. Beaver—Swedish (two-rowed)..... | do | Baxter's (six-rowed)..... | do |
| 12. Gordon—Baxter's (six-rowed)..... | do | Duck-bill (two-rowed)..... | do |
| 13. Harvey—Rennie's Improved (six-rowed)... | do | Duck-bill (two-rowed)..... | do |

Of these results in hybridising Nos. 1, 2, 4, 6, 8 and 11 were the work of the Director at the Central Farm in 1889, Nos. 3, 10 and 12 that of Mr. W. T. Macoun at