

ing; length of straw, 41 to 48 inches; all standing well; growth strong and even; very little smut; leaves and stems very slightly rusted.

*Improved Ligowo*.— $\frac{3}{4}$  acre. Sown 6th May; two bushels per acre; came up 12th May, and was ripe 5th August. The time to mature was 91 days. Yield per acre, 70 bushels 15 lbs.; weight per bushel  $39\frac{1}{2}$  lbs. Length of head, 8 to 10 inches, branching; length of straw, 46 to 52 inches; all standing well; growth very strong and even; no smut, and very slightly rusted.

*Joanette*.— $1\frac{1}{2}$  acres. Sown 6th May; one and three-quarter bushels per acre; came up 14th May, and was ripe 8th August. The time to mature was 94 days. Yield per acre, 62 bushels 22 lbs.; weight per bushel,  $34\frac{1}{4}$  lbs. Length of head, 6 to 8 inches, branching; length of straw, 37 to 43 inches; all standing well; growth medium; no smut; leaves and stems very slightly rusted.

*Early Gothland*.—4 acres. Sown on heavy sandy loam. This land was in pasture since 1889 and has had no manure. It was ploughed in the spring of 1895 and cropped with corn and beans that year. It was ploughed in the autumn of 1895 about 8 inches deep and disc-harrowed twice the following spring and harrowed with the smoothing harrow twice before sowing. Sown 7th May;  $1\frac{1}{2}$  bushels per acre; came up 12th May, and was ripe 7th August. The time to mature was 92 days. Yield per acre, 60 bushels 4 lbs.; weight per bushel 40 lbs. Length of head, 6 to 8 inches; half sided; length of straw, 46 to 56 inches; standing fairly well—a few spots lodged; growth very strong and even; a few heads of smut; leaves and stems very slightly rusted.

*Banner*.— $1\frac{3}{4}$  acres. Soil a heavy sandy loam. The land was manured during the winter of 1895-96 with about 12 tons of barn-yard manure per acre, placed in small heaps of about half a cart load each and spread and ploughed under in the spring; then harrowed with the smoothing harrow twice before sowing. Sown 9th May; 2 bushels per acre; came up 14th May, and was ripe 10th August. The time to mature was 93 days. Yield per acre, 64 bushels 13 lbs; weight per bushel 34 lbs. Length of head, 8 to 10 inches, branching; length of straw, 55 to 61 inches; growth very strong and even; standing fairly well, a few small spots lodged; no smut; leaves and stems slightly rusted.

Another field of the Banner was grown, measuring 10 acres. Soil a light sandy loam, which was manured with from 15 to 18 tons of barn-yard manure per acre, in the spring of 1894. It was ploughed late in the autumn of 1895 and disc-harrowed twice in the spring of 1896 and harrowed with the smoothing harrow twice before sowing. Sown 9th May; 2 bushels per acre; came up 16th May, and was ripe 12th August. The time to mature was 95 days. Yield per acre, 47 bushels 16 lbs.; weight per bushel 34 lbs. Length of head, 7 to 10 inches, branching; length of straw, 45 to 51 inches. Made a strong, even growth; standing well; very little smut; leaves and stems very slightly rusted.

*Rosedale*.—3 acres. This plot was almost adjoining the Banner, on similar light soil, which received the same manuring as the Banner, but the manure was applied during the winter of 1894-95, and ploughed under in the spring, after which the land was twice harrowed with the smoothing harrow before sowing. Sown 9th May;  $1\frac{3}{4}$  bushels per acre; came up 15th May, and was ripe 10th August. The time to mature was 93 days. Yield per acre, 59 bushels 25 lbs.; weight per bushel, 38 lbs. Length of head, 7 to 10 inches; half sided; length of straw, 43 to 48 inches; all standing well; growth strong and even; no smut; leaves and stems considerably rusted.

*Bavarian*.—8 acres. Soil a light sandy loam, a small proportion of it peaty. The land was manured during the spring of 1895, the manure being placed out during the winter, in small piles of about half a cart load each; and spread in the spring; the previous crop was oats. It was ploughed in the autumn of 1895 about 8 inches deep and disc-harrowed twice in the spring of 1896 and harrowed with the smoothing harrow twice before sowing. Sown 9th May;  $1\frac{3}{4}$  bushels per acre; came up 19th May, and was ripe 12th August. The time to mature was 95 days. Yield per acre, 46 bushels 17 lbs.; weight per bushel,  $32\frac{3}{4}$  lbs. Length of head, 7 to 10 inches, branching; length of straw, 45 to 51 inches; growth strong and even; all standing well; no smut; leaves and stems very slightly rusted.