

## FIELD CROPS OF PEASE.

*Daniel O'Rourke.*—2 acres. The soil was a sandy loam of fairly good quality which received a dressing of about 12 tons of barn-yard manure per acre, in the autumn of 1895 when it was ploughed under. In the spring of 1896 the land was disc-harrowed twice and harrowed twice with the smoothing harrow before sowing. Sown 1st May  $2\frac{1}{2}$  bushels per acre, came up 11th May and was ripe 7th August. The time to mature was 99 days. Yield per acre 50 bush. 59 lbs. Weight per bushel  $63\frac{1}{4}$  lbs. The growth was medium but the vines were well podded.

*Pride.*—1 acre. This was sown alongside of Daniel O'Rourke but the land was higher and lighter in character. The manuring and treatment was the same. Sown 1st May  $2\frac{1}{2}$  bushels per acre, came up 11th May and was ripe 8th August. The time to mature was 100 days. Yield per acre 26 bush. 3 lbs., weight per bush. 64 lbs. The growth was medium and the vines were fairly well podded.

Six varieties of cross-bred pease were sown on sandy loam of fair quality, in plots of one-sixth acre each. The previous crop was oats. This land received a dressing of barn-yard manure in the spring of 1893 at the rate of about 10 tons per acre. It also received a coat of unleached ashes in the spring of 1896 of about 150 bushels per acre. The land was ploughed late in the autumn of 1895 about 8 inches deep and ploughed again from 5 to 6 inches deep early in the spring of 1896 and harrowed twice with the smoothing harrow before sowing.

*Prince.*—Sown 2nd May; 3 bushels per acre; up 10th May, and was ripe 14th August. The time to mature was 104 days. Yield per acre; 47 bushels 18 lbs.; weight per bushel 62 lbs. Length of pod  $2\frac{1}{2}$  to 3 inches; length of vine 60 to 84 inches.

*Paragon.*—Sown 2nd May: 3 bushels per acre; up 10th May; and was ripe 12th August. The time to mature was 102 days. Yield per acre 47 bushels; weight per bushel  $63\frac{1}{4}$  lbs. Length of pod  $2\frac{1}{2}$  to 3 inches; length of vine 60 to 72 inches.

*Alma.*—Sown 2nd May; 2 bushels per acre; up 10th May, and was ripe 13th August. The time to mature was 103 days. Yield per acre 45 bushels 42 lbs.; weight per bushel 64 lbs. Length of pod  $2\frac{1}{4}$  to  $2\frac{3}{4}$  inches; length of vine 72 inches.

*Vincent.*—Sown 2nd May; 3 bushels per acre; up 10th May, and was ripe 8th August. The time to mature was 98 days. Yield per acre 45 bushels 30 lbs.; weight per bushel 63 lbs. Length of pod  $2\frac{1}{2}$  to 3 inches. Length of vine 60 to 72 inches.

*Fenton.*—Sown 2nd May; 3 bushels per acre; up 10th May, and was ripe 13th August. The time to mature was 103 days. Yield per acre 41 bushels 24 lbs.; weight per bushel 62 lbs. Length of pod  $2\frac{1}{2}$  to 3 inches. Length of vine 60 inches.

*Tracey.*—Sown 2nd May;  $2\frac{1}{2}$  bushels per acre; up 10th May, and was ripe 15th August. The time to mature was 105 days. Yield per acre 37 bushels 30 lbs.; weight per bushel 62 lbs. Length of pod  $2\frac{1}{4}$  to  $2\frac{3}{4}$  in.; Length of vine 84 inches.

## RESULTS OF EARLY MEDIUM AND LATE SOWING.

These tests were all conducted on similar land on  $\frac{1}{10}$  acre plots, the plots adjoining each other. The soil was a sandy loam which received a light dressing of barn-yard manure, about 12 tons per acre in the autumn of 1895, when it was ploughed under. In the spring a sufficient quantity of the land for the first set of plots was disc-harrowed twice and harrowed with the smoothing harrow twice before sowing, the first sowing being made as soon as the land was in condition to receive the seed. The oats were sown at the rate of  $2\frac{1}{4}$  bushels per acre, the barley 2 bushels, the spring wheat  $1\frac{1}{2}$  bushels and the pease at the rate of  $2\frac{1}{2}$  bushels per acre. A sufficient portion of the land set aside for the subsequent sowings was worked up from week to week in the manner described, as it was needed, and in this way any weeds which had started were killed and each series of plots were given the same chance at the start as far as condition of soil was concerned.