

Experimental Farms.

Two other varieties of corn were planted in the same field as the Longfellow, on similar land which had similar treatment, as follows:—

Mammoth Eight-rowed Flint.— $3\frac{1}{4}$ acres. Planted in hills 3 feet apart each way on 30th May; came up 8th and 9th June, and was cut 19th September. Height, 7 to 10 feet well cobbied, grain in the dough stage. Yield per acre, 13 tons 1,205 lbs.

Angel of Midnight.— $3\frac{1}{2}$ acres. Planted in hills 3 feet apart each way on 30th May; came up 8th and 9th June, and was cut 18th September. Height, 7 to 10 feet, well cobbied, grain in the dough stage. Yield per acre, 15 tons 328 lbs.

EXPERIMENTS WITH TURNIPS.

Of turnips fourteen varieties were tested during the past season on plots all adjoining each other and all having similar treatment. The soil was a rather light sandy loam of good quality. The previous crop was experimental plots of grain. Soon after harvest, in 1895, the land was ploughed very shallow, about two inches deep and harrowed with a smoothing harrow to cover and start weed seeds and shed grain. It was manured in the autumn of 1895 with about 12 tons of barn-yard manure to the acre, which was ploughed under soon after spreading about 8 inches deep. In the spring the land was again ploughed about 8 inches deep, harrowed with the smoothing harrow made up in drills two feet apart and subsequently rolled with a heavy land roller which flattened the drills about one half leaving a firm seed bed. Two sowings were made of each sort of seed at the rate of 3 lbs. per acre, the first on 8th May, the second on 22nd May, and the roots on both sets of plots were pulled on the 15th of October. The yield per acre has been calculated from the weight of roots obtained from two rows each 99 feet long.

TURNIPS—TEST OF VARIETIES.

| Name of Variety. | Yield per Acre. 1st Plot. | | Yield per Acre. 2nd Plot. | | Yield per Acre. 2nd Plot. | |
|------------------------|---------------------------|-------|---------------------------|------|---------------------------|-------|
| | Tons. | Lbs. | Bush. | Lbs. | Tons. | Lbs. |
| Hartley's Bronze..... | 45 | 90 | 1,501 | 30 | 30 | 1,710 |
| Carter's Elephant..... | 41 | 335 | 1,372 | 15 | 28 | 1,090 |
| Purple Top Swede..... | 40 | 1,180 | 1,353 | 30 | 29 | 740 |
| Mammoth Clyde..... | 37 | 250 | 1,237 | 30 | 25 | 215 |
| Perfection..... | 37 | 250 | 1,237 | 30 | 21 | 570 |
| Giant King..... | 36 | 600 | 1,210 | | 25 | 1,535 |
| Prize Purple Top..... | 34 | 1,630 | 1,160 | 30 | 22 | 220 |
| Marquis of Lorne..... | 33 | 660 | 1,111 | | 23 | 1,190 |
| Jumbo or Monarch..... | 33 | 330 | 1,105 | 30 | 21 | 1,615 |
| Prize Winner..... | 32 | 1,395 | 1,089 | 55 | 23 | 860 |
| Selected Champion..... | 32 | 1,010 | 1,083 | 30 | 20 | 1,910 |
| East Lothian..... | 31 | 425 | 1,040 | 25 | 21 | 1,230 |
| Sutton's Champion..... | 30 | 1,380 | 1,023 | | 22 | 880 |
| Skirving's..... | 28 | 485 | 941 | 25 | 21 | 1,670 |

FIELD PLOTS OF TURNIPS.

The fourteen varieties of turnips which were sown in the uniform test plots were also sown in a field crop in plots of one-tenth acre each side by side. This land was a heavy sandy loam which was sown with oats in 1895 and at the same time seeded with Mammoth Red clover about 8 lbs. per acre. This made a good catch and grew rapidly after the oat crop was harvested. It was ploughed under on 25th May following by which time it had formed a fine mat of foliage from 12 to 14 inches high. The land was harrowed with the spade-harrow several times and subsequently with the smoothing harrow and in this way the soil was pulverized and brought into good condition for the turnip crop. Drills were made two feet apart and the drills subsequently rolled with a heavy land roller which flattened them about one half, leaving a firm seed bed. The