EXPERIMENTS with Fertilizers on half plots (one-twentieth acre) of Carrots (Improved Short White), after Oats.

No. of Plot.	Fertilizers applied each year.	Average Yield for five years.	6th Season Improved Short White.	Average Yield for six years.
		Weight of roots per acre.	Weight of roots per acre.	Weight of roots per acre.
		Tons. Lbs.	Tons. Lbs.	Tons. Lbs.
1	Barn-yard manure, well rotted, 15 tons per acre	18 930	21 600	18 1,875
2	Barn-yard manure, fresh, 15 tons per acre	20 1 212	19 1,960	20 1,003
3	Unmanured	14 216	7 860	12 1,990
4	Mineral phosphate, untreated, finely ground, 500 lbs. per acre	13 1,552	10 1,310	13 511
5	Mineral phosphate, untreated, finely ground, 500 lbs.; nitrate of soda, 200 lbs. per acre	16 1,918	12 710	15 1,633
6	Barn-yard manure, partly rotted and actively fermenting, 6 tons per acre; mineral phosphate, untreated, finely ground, 500 lbs. per acre, composted together, intimately mixed, and allowed to heat for several days before using	19 756	17 590	19 61
7	Mineral phosphate, untreated, finely ground, 500 lbs.; nitrate of soda, 200 lbs.; wood ashes, unleached, 1,000 lbs., per acre	15 814	13 1,760	15 305
8	Mineral phosphate, untreated, finely ground, 500 lbs.; wood ashes, unleached, 1, 500 lbs. per acre	12 940	10 1,370	12 345
9	Mineral superphosphate, No. 1, 500 lbs. per acre	10 466	8 460	9 1,798
10	Mineral superphosphate, No. 1, 350 lbs.; nitrate of soda, 200 lbs. per acre	12 950	9 1,740	12 81
11	Mineral superphosphate, No. 1, 350 lbs.; nitrate of soda, 200 lbs.; wood ashes, unleached, 1,500 lbs. per acre	16 864	11 640	15 1,160
12	Unmanured	12 1,604	3 1,230	11 541
13	Bone, finely ground, 500 lbs. per acre	13 856	5 820	12 183
14	Bone, finely ground, 500 lbs.; wood ashes, unleached, 1,500 lbs. per acre	18 740	15 80	17 1,630
15	Nitrate of soda, 200 lbs. per acre	16 1,035	8 980	15 359
16	Muriate of potash, 150 lbs. per acre	17 624	12 1,440	16 1,093
17	Sulphate of ammonia, 300 lbs. per acre	12 588	5 1,050	11 331
18	Sulphate of iron, 60 lbs. per acre	13 408	6 1,000	12 173
19	Common salt (Sodium chloride), 300 lbs. per acre	15 84	8 1,990	14 68
20	Land plaster or gypsum (Calcium sulphate) 300 lbs. per acre	14 1,886	11 1,000	14 738
21	Mineral superphosphate, No. 2, 500 lbs. per acre	12 1,246	7 920	11 1,525

POTATO PLOTS.

The alternate halves of the wheat and barley plots which were occupied by carrots and sugar beets in 1891, 1892 and 1893, were planted with potatoes in 1894, 1895 and 1896. These were planted in rows 2½ feet apart, with the sets about 1 foot apart in the rows.

Those grown in 1896 after wheat were planted 12th May, came up 3rd June, and were dug 5th October. On each of these plots there were seven rows of Early Rose and five rows each of Queen of the Valley, Daisy, Early Sunrise, and May Queen Early.

Those grown after barley were planted 11th May, came up 2nd June, and were dug 30th September. On each of these plots there were seven rows of Burpee's Extra Early, and five rows each of Wonder of the World, Beauty of Hebron, Thorburn and Lee's Favourite. In the tables following the yield of each variety for each plot is given, also the crop in bushels per acre.

The weight of tubers dug of each variety per row as far as they have been tested, five of them for three years, four for two years, and one for one year, are here submitted, arranged in the order of their yield in 1896.