

Another experiment in which equally striking and important results were obtained may be described as follows :—In 1897 two plots adjoining each other and uniform as regards size and character of soil, were selected : No. 1 was sown with barley and a grass mixture containing clover seed ; No. 2 was similarly sown, with the exception that there was no clover seed in the grass mixture. In 1898 two crops of hay were taken off each plot. In the spring of 1899 they were ploughed and sown with Bavarian oats. The yield per acre on No. 1 was 46 bushels 4lbs. ; that on No. 2, 36 bushels 6 lbs., an increase of 9 bushels 22 lbs. of grain to the acre on the plot which had grown clover over that on the plot sown with grass seed only. This increase was practically due to the fertilizing constituents set free by the decay of the clover roots only, for in 1898 two crops of hay had been taken off.

INDIAN CORN AFTER CLOVER.

In 1897 a number of plots were sown with grain and clover, check plots being left throughout the series upon which grain only was grown. The clover was allowed to remain through the winter, and on May 23rd, 1868 (at which date there was a heavy mat of growth), ploughed under. It was planted with Indian corn. The yields in detail are to be found in the report of the Experimental Farms for 1898. I will now merely state that the average yield from three plots that had previously grown clover was 16 tons 240 lbs. of fodder corn, while that from the plots on which there had been no clover was 13 tons 380 lbs.

POTATOES AFTER CLOVER.

The following experiment shows that, as with grain and fodder corn, an increased yield of potatoes was obtained by preparing the land with clover.

Plots Nos. 1 and 2, of similar size and character of soil, and adjoining each other were selected in the spring of 1898. No. 1 was sown with grain and clover ; No. 2 with grain only. In May, 1899 (there being an excellent growth of clover on No. 1), the plots were ploughed and planted with potatoes. The yield of potatoes was, on No. 1, at the rate of 146 bushels 27 pounds per acre ; on No. 2, 104 bushels 57 pounds per acre.