The following observations and notes were made by the experimenters :---

## I.-J. B. Muir, North Bruce.

Previous Cropping.—Previous to 1886 no systematic course of cropping had been adopted, but corn, potatoes, millet, etc., had been grown upon it from time to time.

*Previous Treatment.*—For the past eight or ten years it has been plowed in autumn and generally received from ten to twelve loads of barnyard manure per acre yearly. A small quantity of wood ashes were thrown upon it from time to time every winter. In September, 1885, a light topdressing of fresh meadow muck was spread, and allowed to be exposed for the winter.

State of Soil, Etc.—Land selected was in fair state of cultivation, and not exhausted by previous cropping. The surface soil varies from a clay loam to clay, with heavy clay sub-soil, only partially drained, on gentle slope to east and south.

In spring of 1886 weather was wet and cold. Land plowed May 12th, then harrowed, rain prevented sowing till 18th.

Appearance of Grain.—First blades on gypsum plot on 23rd, on 24th large percentage up in all plots; wheat came out quite thin.

Weather.—Severe frosts early in season, dry later on. In time the plots fertilized by salt and superphosphate became more healthy and vigorous looking than the other two, especially the plot where no fertilizer was used. During the latter part of June and early part of July, quite a percentage of this latter plot turned yellow in the leaf, and was very unhealthy looking for a time. As the season of growth advanced, the salt and superphosphate plots became more uniform and healthy-looking than their companions, and after the grain shot out, the salt plot seemed to gain on its rival, ripening a day or two earlier; had a brighter, stiffer and healthier-looking straw, and when threshed, a plumper and more uniform grain.

On 22nd August, wheat on salt plot was ripe and ready to cut, on 24th all were cut. Had the grain on the superphosphate plot filled out as well in proportion, as that from the salt, it would certainly have ranked first in point of yield, as there was a more vigorous growth of vegetable matter from this plot, than from any of the others.

Conclusions.—From the results of this experiment, I consider salt to be the most economical and beneficial fertilizer to apply to our land at the present time. It is inexpensive and convenient, may be obtained in abundance in this locality, and would certainly be used profitably, even if there was no greater return than the improved quality of the grain it would secure. Judging by the return from the superphosphate plot, it would not pay to use this fertilizer at present prices on our land. Gypsum, apparently, has no value, and is not required by the land in our locality.

## II.-J. G. McKay, Underwood P. O., Bruce Co.

*Previous Cropping.*—Last crop peas; land never manured before; four crops taken off since broken up from sod soil.

Sowing, Weather, Etc.—Sowed wheat forenoon of May 14th, rained seven p.m. of same day. Fore part of season was very dry (June). July 7th doing fairly well. On July 15th the salt plot headed out, superphosphate plot half headed out, gypsum plot just starting. July 20th all headed out. August 13th heavy hail, which hurt the grain, shelling about one-fourth. August 16th, rain, salt plot the ripest. August 23rd, rain all day. August 30th, salt plot cut. September 1st, other plots cut; superphosphate plot being a little riper than the gypsum. The salt plot had a little more clay in it than the others.

## 111.-E. M. Zavitz, Coldstream P. O., Middlesex Co.

*Previous Cropping.*—Roots up till last two years, when plots 1 and 4 were under strawberries; only manure has been barnyard.

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