

experiments. The time of the Convention was taken up too much with debates; more papers on agriculture should be read, and less time occupied in useless debating.

Mr. ANDERSON asked what was going to be done with the seventy-five dollars granted by the Minister of Agriculture.

Mr. CAMPBELL wanted a few experiments of some kind made, even though they were on a small scale.

Professor JAMES said that each member of the Union should be an experimenter himself, and report at the meeting next year. He did not think they should want for assistance from the Government, but on the contrary, go right ahead, experimenting in the field, garden, dairy, or elsewhere, and report the result at next session of the Union. He would be only too happy to assist them all in his power.

On the suggestion of President Mills, the matter was finally settled by the formation of a Committee composed of the following gentlemen: Professor Brown, Professor James, Professor Panton, and Messrs. Anderson, Ramsay, and Zavitz, to confer with the Minister of Agriculture, and make necessary arrangements for future experiments.

REPORT OF EXPERIMENTS CONDUCTED BY MEMBERS OF THE UNION IN 1866.

The object of the experiments was to test the effects of salt, gypsum or land-plaster and superphosphates upon wheat, oats and barley.

The plots were one-fortieth of an acre in area in each case.

The cereals sent out were twelve pounds of white fife wheat, eight and a-half pounds of barley, and seven and a-half pounds of black tartarian oats, each for four plots or one-tenth of an acre.

The fertilizers were ten pounds of salt, ten pounds of gypsum, and ten pounds of superphosphate. The analysis accompanying the superphosphate was as follows:—

Phosphoric acid, thirteen per cent.; ammonia, two per cent.; potash, one and a-quarter per cent.

Each experimenter would, therefore, have wheat, oats or barley growing on four similar plots treated as follows: One, no manure; two, salt; three, gypsum; four, superphosphate.

Grain and fertilizers were sent to twelve members of the Union, wheat to four, oats to four, and barley to four. Eight completed the experiments and replied in full; four made incomplete reports.

The experimenters were requested to observe and report upon the following points:—

1. Previous cropping and fertilizing.
2. State of soil and condition at time of sowing; date of sowing.
3. Time of appearance of grain on each plot.
4. General growth and comparative condition of grain on the four plots, from time to time.
5. Date of maturity and harvesting.
6. Weight and condition of straw and grain, separately.
7. General observations on the weather.
8. Conclusions as to the value of each of the fertilizers.

I.	J. J.
II.	J. G.
III.	E. M.
IV.	T. R.
V.	Geo. C.
VI.	C. A.
VII.	E. Lich.
VIII.	A. L. F.

Average of experiments on

Wheat

Barley

Oats

All complete reports.