

Dawson. The drafts of the respective implements were as follows: A. Harris & Son, width of cut 4 feet 8 inches, draft 205 lbs.; Oswald & Patterson, cut 4 feet 3 inches, draft 275 lbs.; Bingham, both machines cut 4 feet 3 inches, draft 250 lbs.; Grant, cut 4 feet 3 inches, draft 240 lbs.; Noxon, Standard, cut 4 feet 6 inches, draft 230 lbs.; Noxon, Buckeye, cut 4 feet 3 inches, draft 220 lbs.; Watson, Clipper, cut 4 feet 4½ inches, draft 225 lbs.; L. D. Sawyer, cut 4 feet 8 inches, draft 280 lbs.; Forsyth, Buckeye, cut 4 feet 3 inches, draft 225 lbs.; Forsyth, Ohio, cut 4 feet 3 inches, draft 210 lbs.; Massey, Hubbard, cut 4 feet 6 inches, draft 275 lbs.; Eastwood, Buckeye, cut 4 feet 3 inches, draft 250 lbs.; Eastwood Ohio, cut 4 feet 3 inches, draft 250 lbs.

It was quite a late hour and growing dark before this part of the trial was completed.

#### PLOUGHING.

Towards the latter part of the afternoon a commencement was made with the trial of ploughs. The ground selected for this purpose was a cleared portion of the same field in which the mowers had been competing. Strips of land, 12 feet wide and about 30 rods in length, were staked out for the separate implements to plough each a land. Only a few had been set to work when the coming on of evening put a stop to the proceedings.

The ground was very unfavourable for the purpose, being not only rough, hilly, hard and dry, but very stony. It was almost impossible, therefore, to exhibit really good work. The following competitors started with their ploughs:—Watson, with a plough with a wrought-iron beam, steel mould-board and cast landside; Morley, of Thorold, with his well-known iron plough, so well adapted in ordinary cases for sod; Chisholm, of Paris, with an iron plough; Wilkinson, of Gormley; and Gray, of Edinburgh, Scotland, with an iron plough. The principal interest of this part of the trial centred in Gray's double furrow plough. This implement was seen at great disadvantage on account of the nature of the ground, besides being started without being properly adjusted. The latter error was remedied after a few furrows had been ploughed, and the work was much improved by the alteration. The plough was drawn by three splendid and powerful grey horses, who, under the adverse circumstances, scarcely worked with the ease which better ground would have allowed. Notwithstanding these drawbacks, the performance of the double plough elicited much admiration. The trial will be resumed to-morrow. Besides the three greys already mentioned, a number of the teams on the ground were very splendid animals. The team which drew Mr. Harris' combined mower, and was selected to draw all the implements of the same class in the trial of drafts, was especially noticeable and was a truly noble-looking pair of well-matched and powerful animals.

After the day's work a dinner was given to the judges and other visitors, by the officers of the Brant Agricultural Society, at Sinclair's Gore Hotel.

#### SECOND DAY.

The trial of Agricultural Implements was resumed next day under the favourable influence of splendid weather. The day was all that could be wished, fine, without being sultry, and indeed just the temperature to suit both visitors and competitors. The crowd was not so great as on the previous day, for many who had come from a distance had been compelled to return home to attend to harvest work or other pressing business. To those who were able to remain this was an advantage, as there was less crowding about the machines at work, and less running over the fields. Many, however, were no doubt disappointed in being obliged to forego the principal attraction of the competition, namely, the testing of reapers, which the threatening state of the weather on the previous day and the want of preparation had postponed till the second day of the trial. Even then it was not till an advanced hour of the morning that this part of the competition was fairly under weigh.

#### TRIAL OF HORSE RAKES.

The first part of the day's proceedings was the trial of horse rakes. In this class, the number of entries as usual exceeded the actual number of competitors on the field. Four machines were started to work. These were all sulky rakes with steel teeth, and were exhibited respectively by Massey, of Newcastle, Watson, of Ayr; Davis, of Guelph; and J. Soutar, of Chatham. All the machines made clean work, and were managed by the driver with ease; but the lightness of the crop scarcely admitted of a fair test. Indeed, in the case of these steel-teeth implements, the slight resistance of the hay to be gathered caused the teeth to press somewhat too much on the ground and bring up roots and earth to some extent. This could have been remedied had the lightness of the crop been foreseen and the pressure adjusted, as the machine of Soutar, for instance, allows, by using lighter springs and raising the teeth higher. This exhibitor also laboured under the disadvantage of employing a driver unaccustomed to his machine. The result of the competition, as regards the award of prizes, will be seen in the premium list appended to this report.

#### PLOUGHS.

Early in the forenoon the ploughs that were on the ground and which had on the previous day been at work on their strips of land only one of which, however, was completed—were submitted to the test of the dynamometer, with the following results:—Gray's champion iron single-furrow plough, a strong and excellent implement manufactured in Scotland and exhibited by the im-

porter and agent, Mr. Rennie, of Toronto, showed an average draft of 500 lbs. The weight of the plough itself is 180 lbs. The strip of land selected for the trial being on a hill-side gave an opportunity of observing the effect of an acclivity, and it was noticeable how little the draft was increased in ascending the hill—not more indeed on an average than 25 lbs. The next plough tested was that manufactured by Eyer & Bros., Richmond Hill, an implement with iron beam and wood shafts. The weight of this plough is 140 lbs. and the draft was 475 lbs. The plough of George Wilkinson, of Gormley, a plough similar in construction to the last, and weighing 140 lbs., was next tested, and showed a draft of 450 lbs. The next implement brought on the ground was another of Gray's iron ploughs but of a lighter construction, weighing 150 lbs. This was also exhibited by Mr. Rennie. The draft was 460 lbs. Mr. Wilkinson showed a second plough entirely of iron, weighing 175 lbs., the draft of which was 475 lbs.

J. Morley, of Thorold, showed his well-known iron plough. Its weight is 130 lbs and the draft 450 lbs.

James Chisholm, of Paris, completed the list of actual competitors on this occasion. His is also an iron plough—weight, 175 lbs; draft, 450.

The judges for this class of implements were,—A. McKellar, M. P. P.; Mr. George Bell, of Tuckersmith, and Mr. Robson, of Falkirk. They expressed themselves well pleased with the quality of the work done by all the ploughs, under very disadvantageous circumstances, and found it a very difficult matter to award the prizes; and it was with much reluctance that they did not assign a premium to the excellent implement exhibited by Mr. Wilkinson, which, however, they considered well entitled to high commendation. The double furrow plough was not submitted to the test of the dynamometer on account of the very stony nature of the ground.

#### CULTIVATORS.

The same judges attended a test of cultivators on some fallow ground at a distance from all the other farm operations going on at the trial, and therefore but little noticed. The exhibitors were, J. Morgan, of Markham; B. Bell & Son, St. George; Thomas Clarke, Darlington; C. Thair, Guelph; J. Borer, Dundas. All were good implements, and it was no easy matter to decide upon their merits. That of J. Morgan, though not successful at the present trial, has carried off many prizes, and is certainly a thoroughly good machine, simple in construction and easily worked.

#### HARROWS.

The trial of harrows, like that of cultivators and ploughs, was only on a limited scale. The implements were all iron section harrows, very similar in construction and excel-