

frequent disadvantage. The single mowers were used in one field by one set of judges, and the trial of the combined machine under another set of judges was going on at the same time in the field adjoining. The machines were first started round the field, not all at once, but consecutively. Afterwards each machine was driven by one of the judges over the same portion of the field, with the dynamometer attached, subjecting each to the test as nearly as possible under exactly the same circumstances. The gentlemen who acted in the onerous capacity of judges deserve to have it mentioned that they discharged their very difficult task with singular care, patience and impartiality. The greater part of the day was occupied in this important investigation. The machines were of excellent manufacture and elicited general admiration for the work they performed.

SINGLE REAPERS.

Six of these competed, though many more were entered. The name of the competitors will be mentioned in giving the results of the dynamometer test. The great curiosity in this class was the Marsh Harvester, which was followed by an immense crowd. It cut the grain well; but it was a question among the spectators whether they would not rather bind the sheaves on the ground than on the platform of the harvester. It seems pretty hard work for the two binders to manage all the grain, even in this not very heavy crop. The hurry with which the binders must be performed tends, moreover, to leave the sheaves not in the best order. The machine is nevertheless a step in the right direction, and many farmers who have tried it speak highly of its merits. With regard to the other machines, we cannot here discuss their various merits and peculiarities. Most of them are well known, and a summary of the results of the dynamometer with each will be all that most readers will care for. With the single machines the drafts were as follows, the width of cut being also taken into account?

Exhibitor.	Reaper.	Cut.	Draft.
		ft. in.	lbs.
A R Han's	Burdick	5 9	200
Brown & Patterson	Johnston	5 3	228½
L D Sawyer	Johnston	5 4	220
J Watson	Dropper	6 0	175
Massey	Woods	5 9	205
Paxton, Tate & Co.	Marsh Harvester	4 8	368½

COMBINED REAPERS.

These were tested in a similar manner, and were on the ground in great force, and came more nearly up to the actual number of entries than any other class of implements at the trial. The following is a summary of the drafts as shown by the dynamometer. As will be seen, there was a remarkable uniformity in this respect:—

Exhibitor.	Reaper.	Cut.	Draft.
		ft. in.	lbs.
Massey	Hubbard	5 6	225
A Harris	Kirby	5 0	203
W Bingham	Dodge	5 6	241
W Bingham	Buckeye	5 0	225
J Forsyth	Johnston	5 0	233
J Forsyth	Johnston	5 0	225
L D Sawyer	Dodge	4 8	250
J Watson	Johnston	5 0	233

Noxon Bros	Ohio Buckeye	5 6	225
Noxon Bros	Standard	5 6	233
J H Grout	Dodge	5 0	250
J Eastwood	Ohio Buckeye	5 0	225
J Eastwood	Ohio Buckeye	5 0	225
Oswald & Patterson	Ohio Buckeye	5 0	236

THRESHING MACHINES.

There was not an extensive competition in this class of machines, four only being on the ground. Each was tested separately with a load of sheaves brought from the field where the reapers had just been at work. The machines shewn were Mr. Watson's agitator vibrating machine and his double-cylinder thresher; and those of Glasgow & MacPherson, of Clinton, and Maxwell & Whitelaw, of Paris. The work of each was thorough, delivering the grain very clean, and apparently threshed out completely. The first machine set to work was Mr. Watson's double cylinder, which threshed in excellent style 24 bushels in 30 minutes, without any effort in haste. Macpherson's next threshed 18 bushels in 17 minutes; Watson's agitator followed, and turned out 24 bushels in 18 minutes; and Maxwell and Whitelaw threshed 28 bushels in 18 minutes.

The grain was plump and even, turning out well in proportion to the straw, and the crop of the whole field will no doubt prove an excellent one—a promising index of the harvest in that neighborhood.

STRAW-CUTTERS.

After the trial of threshers, two horse-power straw-cutters, one exhibited by J. Watson, the other by Maxwell and Whitelaw, were set to work. The machines were very similar in construction, and did excellent work.

The trial of the pea-harvester did not take place, as there was no field of that crop in the vicinity ready; but the committee proposed to leave the trial of this much-needed implement with the County Agricultural Society, who will, it is hoped, agree for a competition shortly and report to the Agricultural and Art Association.

The following is the reward of prizes:—

PRIZE LIST.

SINGLE MOWERS.

- 1st Prize, Brown & Patterson, Whitby.
- 2nd " Bell & Son, St. George.
- 3rd " J Watson, Ayr.

SINGLE REAPERS.

- 1st Prize, Brown & Patterson, Whitby.
- 2nd " Harris & Son, Beamsville.
- 3rd " L D Sawyer, Hamilton.

COMBINED MOWERS.

- 1st Prize, J Forsyth, Dundas.
- 2nd " Noxon Brothers, Ingersoll.
- 3rd " A Harris & Son, Beamsville.

COMBINED REAPERS.

- 1st Prize, J Forsyth, Dundas.
- 2nd " Noxon Brothers, Ingersoll.
- 3rd " J H Grout, Grimsby.

HORSE HAY-MAKE.

- 1st Prize, J Davis, Guelph.
- 2nd " J Soutar, Chatham.
- 3rd " J Watson, Ayr.