

working. Adjoining these machines were a set of excellent straw cutters, exhibited by the Messrs. Maxwell and Whitelaw, of the Paris Foundry. The same manufacturers show a root cutter and a seed drill. First prizes were awarded for each.

Garden and field rollers, large and small, constructed of wood and iron, formed a conspicuous group among the implements. The exhibitors in this class were S. D. Clarke, of Ernestown, H. Massey, of Newcastle, H. Collard, of Gananoque, and Chown and Cunningham, of Kingston.

J. H. Purdy, of Ernestown, and W. McDonald, exhibited horse hay rakes, apparently well adapted to facilitate hay making.

The most novel implement on the ground was, perhaps, the flax puller exhibited by Oswald & Patterson, of Woodstock. It is difficult to describe this very ingenious machine, without some sort of drawing; but it appears to have proved itself an efficient flax harvester. It has been extensively tried during the last season, and is said to do its work thoroughly, pulling the flax without breaking the fibre or bruising the seed. One driver, and a boy to gather the flax as it is passed from the drum, and throw it aside in bundles, with two others to bind, are all the attendance required; and, with this amount of help, it is said the machine will harvest about three and a half acres per day. This machine is a most important acquisition to the country, and will, no doubt, remove one of the most serious objections against flax growing that has hitherto deterred many from undertaking this branch of agriculture. Immediately below, our readers will find a communication from Mr. Donaldson relative to this new invention.

Our neighbours from the United States compete with us, amongst other things, in the matter of Reapers and Mowers. These were collected together under a shed on another part of the ground, as before stated. The principal exhibitors in this department were Messrs. H. A. Massey, of Newcastle, John Forsyth, of Dumfries, John Herring, of Napanee, and G. F. Herrington, of Valley Falls, New York. The first prize for the best reaper was awarded to Mr. H. A. Massey, of Newcastle, who exhibited Wood's patent reaping machine. The same exhibitor obtained a first prize for the best mowing machine, and the third for the mower and reaper combined. Mr. John Herring obtained the third prize for his mower, and also exhibited a combined mower and reaper, which was a self-raker. To Mr. John Forsyth, of Napanee, was awarded the first prize for a combined mower and reaper. The second prize in the same class was awarded to Mr. G. F. Herrington, of New York. This is also a self-raker. The same maker exhibited and obtained the second prize for a mowing machine, about which there appeared to be a great many conveniences and advantages, especially in the facility with which the sickle can be regulated and elevated, so as to pass over obstacles or work on uneven ground.

Under the same shed were shown some highly decorated spring market waggons, by Mr. T. Scott, of Newburg, Mr. R. S. Clarke, of Ernestown, and Hart & Son, of Picton. G. White, of Kingston, and G. Lindsay, of Gananoque, were the only exhibitors of lumber waggons.

In the same compartment with the dairy implements was a really beautiful display of field and garden tools, comprising hay and potato forks, scythes, hay knives, &c. The material and general finish were most admirable, and prizes to the number of sixteen were awarded to the exhibitors, Whiting & Cowan, of Oshawa.

In another part of the grounds, and not far from the main Exhibition building, there was a small display of gates, and one solitary model of fencing. Several of the gates were deserving of high commendation. The exhibitors were Messrs. Rykert, who showed the Grantham gate, R. Lucas, of Trafalgar, R. Lewis, of Melbourne, and some others. The last-named exhibitor, though he failed to obtain a premium, showed several varieties of gates which seemed extremely convenient, and simple in construction and working. Mr. Stephen Washburn exhibited his patent picket fence, by small models, and showed how easily it could be adapted for a variety of purposes, such as a hay rack, a feeding rack, sheep pen, fruit ladder, and various other uses.

In connection with the department of agricultural machinery, it should be stated that James Brown, of Toronto, showed a model of R. T. Sutton's grain dryer, which would seem to work well.

Flax-Pulling Machine.

Mr. JOHN A. DONALDSON, of Toronto, writes as follows:—

I have just returned after visiting the farm of the Rev. Dr. Freeland, township of Mono, a short distance from the thriving village of Oraugerville, in the

county of Wellington, where I witnessed a flax-pulling machine at work, being drawn by two horses, similar to a reaper or grass mower. This machine will pull from three to four acres per day, and can be worked by two hands, the driver and another man. Boys will answer in both cases. It was doing the work well, not leaving a single stalk behind, either long or short. Like all new discoveries, its construction is very simple, being a cylinder of wood, with a belt which secures the flax and delivers it as fast as one hand can make the beets or small sheaves, the binding and shocking taking the same time as in all ordinary cases.

I have little doubt, now that the idea has been discovered, that great improvements will be made, and I hope next season to see a machine produced on the same principle that will pull double the quantity. However, Dr. Freeland deserves great credit for securing this machine and for the great interest he has shown in promoting the growth of flax in this country. In order to show the farmers in his neighborhood that he meant what he said, he put in no less than fifty acres last spring on his own farm, and a finer crop I have never seen in any part of the Province. A large portion of it will produce from two to three tons to the acre. There is a certainty about this crop which attends few others if only put in early in the spring. There is sure to be a good return of seed as well as fibre. Another great object is the adding another crop in rotation. Those who think the flax crop exhausting to the land should see Dr. Freeland, who has several acres where flax was grown last year, looking as well as any other part of his crop. Mr. Church, of Caledon, who has lately erected one of the finest scutching mills in the country at the Credit Falls, will also show a second crop on his farm, equal if not better than the first.

While saying a few words on this important subject, I cannot help thinking, from what I have seen lately, that our back townships are best calculated for the growth of this valuable plant; it being less liable to be injured by the frosts, and in no case is it affected by the midge or weevil. Those who have not given it a trial will be safe in doing so, from the fact that there are properties in the soil, after it has refused wheat, that will produce a good crop of flax. With the new pulling machine, there is no doubt many farmers will give this crop a trial, who would not venture otherwise, and I have no doubt of their success. Samples can be seen at my office, 14 Front street, from the farm of Dr. Freeland—one four feet long. The market for seed is opening favourably; from \$1.50 to \$1.60 per bushel can be had, of only 56 lbs to the bushel—1 lbs less than wheat.

Stock Department.

Show of Stock at the Provincial Exhibition.

HORSES

Of blooded horses there were but two entries, and but one of the animals could be discovered in the stables; "Kenneth," now the property of Mr. Dainty, of Cobourg, was alone in his glory. Of a rich, golden bay colour, and nearly perfect in form, no better specimen of the class could be desired. Though of the mature age of fifteen years, he is as sprightly and active as a deer, exhibiting no signs of advancing age. It is much to be regretted that more attention is not paid by our breeders to this, the highest type of the horse.

AGRICULTURAL HORSES.

Of this class there were by far the largest number of entries. A great proportion of them were large and heavy animals, and entitled quite as much to be classed among the draught as the agricultural horses. There is no doubt but weight is of good value in a horse intended for the plough; but for the general work of Canadian farmers the heavier of the "road and carriage" class will be found more generally useful than those that are styled agricultural horses.

Belonging to this class is the "Canadian Farmer"—a horse owned by Mr. James Anderson, of Ameliasburg, and which deserves special notice. He is a fine animal, of a red sorrel colour, and stands nearly seventeen hands high. He is four years old, and weighs sixteen hundred weight. Mr. H. Cosbrane exhibited a newly imported horse, named "Bounce," and a fine mare, two years old. The latter took the first prize at the Royal Agricultural Society, Bury-St. Edmunds, England, in the present year. They are both fine specimens of their class. "Frontenac," owned by the Agricultural Society of the county of Frontenac, is a fine horse for a three-year old, and stands about seventeen hands high. The "Wm. Wallace," exhibited by Mr. James Morrow, of Tecumseh,

is a large, powerful animal, and well formed. Mr. Robert Ferris, of Richmond Hill, exhibited "Young Robin Hood," which, though not so heavy as some of his competitors, is a noble specimen of the Canadian farm horse. Mr. Lawrence Sinclair, of Rattan, showed a yearling colt of great promise. He is well formed, and large for his age. He stands about sixteen and a half hands high, and weighs about twelve cwt. The "Cumberland," owned by Mr. Thos. Evans, stands well in his class. He took the third prize last year at the Provincial Fair at Toronto. A bay mare, two years old, sired by the "Comet," an immense animal, owned by Mr. John Miller of Pickering, is one of the finest of its class. Though only two years old she is already fully developed. This mare is owned by Mr. Silas Inch, of Oshawa. Mr. James Lowry, of Scarborough, also exhibited a fine mare and colt. Mr. Van Sleik showed a large three-year old, which had few equals on the Exhibition ground. It is untrained yet, though, from its appearance, it should be able to earn its own living without difficulty. Robert Augdon, of Brewers Mills, had a fine three-year old mare on exhibition. She stands fifteen and a half hands high, and shows good breeding. A two year old, owned by Mr. John Dixon, of Etobicoke, deserves particular notice. It is a fine animal, sired by the "Tom Thumb," and took the first prize last year in her class. Mr. J. C. Stark exhibited a bay filly of large proportions, though scarcely equal in strength and symmetry to some of the other competitors in the same class. The "Farmer's Glory" is a fine, large horse, owned by Mr. Peter Pollard, of Clark, Durham. It is an animal of great strength and good action, and of a stock imported from Yorkshire. Perhaps the finest brood mare and colt exhibited in this class were those owned by Mr. Robert Beith, of Darlington

ROAD AND CARRIAGE HORSES.

In this class there were a large number of competitors of various styles and of an excellent grade. Mr. Davis, of Richmond Hill, exhibited "Blackhawk Morgan," who has before figured largely in the prize lists, and was in fine trim. He is sixteen hands high, and in form, temper and action, fully justified the estimation in which he has been held on former occasions. Mr. Davis also showed a matched pair of mares of the same strain; the same that took the first prize last year in Toronto. Lewis Gerald, of Kingston, showed "Hambletonian," from old "Hambletonian," a fine chestnut stallion of medium size and good action; not likely, however, to rival "Dexter" or "General Butler," who have sprang from the same stock. There were also a number of horses from imported "Shales Rattler," all of them fairly entitled to rank as first class light carriage horses. Mr. John Ward, of Napanee, exhibited a three year old colt of this stock, a coal black, with white feet behind, that can hardly be surpassed by any of his age. Mr. Felix Graham, of Thurlow, had an aged stallion of the "Rattler" stock, very perfect in style and action. Mr. T. Dockstader, of Sidney, showed a two year old colt, and Mr. Dennis Hurley, of Tyendinaga, a yearling, which both exhibit in a marked degree the good points of this stock. Mr. P. M. Clark, of Earnestown, a young "Sir Charles" of good appearance, and Messrs. Lake and Fraser, of Fredericksburg, a pair of two year old fillies, broken to harness, and claimed by their owners to be the fastest team of their age in the Province. They are of the Tippoo stock, well-known as good roadster horses. Mr. S. Inch and Mr. John Wilson, of Oshawa, each showed a two year old; the former a Kennet colt, and the latter a Blackhawk, both good colts. Mr. Bonner, of Toronto, exhibited a three year old mare, from "Young Toronto Chief," which probably had not her superior on the grounds. Mr. S. R. Miller, of Earnestown, also showed a first-rate mare of the same age, a light bay, of Tippoo descent; and Ebenezer Fretts, of Fredericksburg, a fine black two year old filly. "Foxhunter," owned by Mr. J. C. Murray, of Wolf's Island, about completes the lighter class of carriage horses worthy of notice—a game-looking black horse with white stockings.

Among the heavier horses of this class, George Murray, of York Township, exhibited a brown "Coachboy," who has already appeared in the roll of honour at our Provincial Fairs. "Volunteer Coachman," entered by Mr. Henry Kerby, of Pickering, is another fine specimen of the large coach horse. Mr. Dainty, of Cobourg, exhibited two good mares, with foals, from "Kennett"; Mr. Reuben Spencer, of Kingston Township, an excellent mare with foal; and Mr. James Lowery, a mare and foal in the same class.

The difficulty of judging between heavy coach and light carriage and roadster horses had again to be encountered by the Judges. A separate classification of the two kinds would contribute very materially to lighten the labours of the Judges, and give satisfaction to the exhibitors. In number and in quality, the show of horses of this class was very superior.

HEAVY DRAUGHT.

In this class there was a very marked improvement on previous exhibitions. Several fine imported ani-