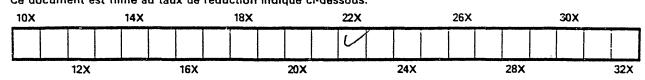
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"The profit of the earth is for all; the King himself is served by the field."-ECCLES. v. 9.

#### GEORGE BUCKLAND, } WILLIAM McDOUGALL, }

VOL. I.

TORONTO, OCTOBER 10, 1849.

No. 10.

EDITORS AND

# The Canadian Agriculturist,

A MONTHLY JOURNAL OF AGRICULTURE, HOR-TICULTURE, MECHANICAL AND GENERAL SCIENCE, DOMESTIC ECONOMY & MISCELLANEOUS INTELLIGENCE: Published by the Proprietors, W. McDougall and Geo. BUCKLAND, on the first of each month, at their Office, near the South-west corner of King and Yorge Streets, Toronto.

IT Subscription ONE DOLLAR, in advance. Advertisements 4d. per line each insertion.

D Societies, Clubs, or local Agents ordering twelve copies and upwards, will be supplied at 3s. 9d. per copy.

IF Money, enclosed in a letter, and addressed to the "Editors of the Agriculturist, Toronto," will come perfectly safe As we shall employ but few agents this year, those who wish to pay for the last, or subscribe for the present volume, need not wait to be called upon.

65 Payment in advance being the only system that will answer for a publication so cheap as ours, we shall send the remainder of the volume to none but those who order and pay for it.

LOCAL AGENTS.—Any person may act as local agent We hope that all those who have heretofore acted as such will continue their good offices, and that many others will give us their influence and assistance in the same way. Any person who will become a local agent may entitle himself to a copy by sending four subscriptions. Those sending tuelve and upwards will be supplied at 3s. 9d. per copy.

MESSRS. DENISON & DEWSON, Attorneys, &c., New Market Buildings, Toronto. January 26, 1849. 2

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March, 1849.

CASH! CASH!! CASH!!!

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Cows and Heifers old enough, are in calf to the proper bulls.

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A Catalogue and description of each animal, will be

given on the day of sale. The awards of Premiums by the American Institute, and Westchester County Agricultural Society, give evidence of my success as a Breeder.

Conveyances will be in waiting at Fordham Depot, Harlem Railroad, to convey persons to the Sale.

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Should the weather prove stormy on the day of Sale, it will be postponed until the next fair day.

#### THOROUGH-BRED STALLIONS FOR SALE.

THE Imported Horse PANMURE, got by Gen. Grosve-nor's celebrated horse Glaucus, and out of Lord Ches-

Le field's celebrated more Graucus, and out of Lott Cres-terfield's celebrated mare La Bayader. Also, the three year old Horse KINGSTON, got by imported Panmure, dam Miss Barrie, by Sir R. Barrie's imported Daghee, granddam Sally Walker by imported Roman, great-granddam by American Eclipse, g.g.g.dam by imported Messenger. Miss Barrie took the first pre-mium for thorough-bred Mare at the Provincial Show for 1849.

PANMURE has proved himself an excellent Stockgetter in the Midland District. The young Horse KINGSTON took the first premium

for three year old thorough-bred Stallion at the Provincial Show of this year. Another colt by the same horse and dam, took the first premium for two year old thoroughbred Stallion; and some of Panmure's colts by common mares also took premiums at the same Exhibition

For further particulars apply to the Editors of the Agriculturist, or to G. A. CUMMING, Esq., Kingston, C. W.

October 1, 1849.

### TO BRICK MAKERS.

A N excellent opportunity offers itself for the purchase of an improved BRICK MOULDING MACHINE, with horse power, capable of Moulding from 20 to 30,000 Brick's per day.

TWO CLAY TEMPERING MACHINES, on a new principle, each Machine can temper a bed of clay, at one time, sufficient for 12,000 Bricks. Apply (if by letter, *post-paid*,) to ROBT. BEEKMAN, AGENT,

No. 6 Wellington Buildings. Toronto, 6th September, 1849. 9-tf.

# NEW CARRIAGE FACTORY.

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HAVE REMOVED their City Carriage Repository to 142, Yonge Street, where they have commenced a Manufactory in all its branches. Parties wishing to purchase for Private or Public Business, are requested to give them a call before purchasing elsewhere, as their facilities are such as to enable them to manufacture cheaper than any other Establishment in Toronto.

Toronto, January 1, 1849. 1-tf N.B .- The public are respectfully invited to an inspection of their Lumber and other Building Materials, as none but the very best will be used.

### MAMMOTH HOUSE,

Removed to the Store next door South of Mr. Elgie's Tavern, Market Square.

HOMAS THOMPSON is happy to inform the Pub-1 lic, that, by the praiseworthy exertions of his friends, he has saved from the destructive Conflagration of 7th April, staple and fancy DRY GOODS, GENERAL CLOTHING, HATS, CAPS, BOO IS, SHOES, &c. &c., to the amount of upwards of \$15,000 ! partially damaged, which will be sold at a great sacrifice. The above Stock, with the early Spring Arrivals now open-ing out, will comprise a splendid assortment of cheap and fashionable Goods, the whole of which he is determined to have cleared out previous to his re-opening the new Mammoth House.

Toronto, 17th April, 1849.

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#### GEORGE B. SPENCER,

(LATE C. ELLIOT,)

CNTINUES every Branch in the above Establish-U ment, as heretofore; and, in addition, keeps constantly on hand a good assortment of Cooking, Parlor. Box, and Air-Tight Stoves, of the most approved patterns.

Also, a Second-hand Engine, with or without the Boiler, Twelve-horse Power, will be sold very cheap for Cash or short payment. Toronto, Jan. 26, 1849. 1-tf

STOVES! STOVES!! STOVES!!!

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No. 116, Yonge Street, Turonio,

HAS constantly on hand Cooking, Box, Parlour an Coal Stoves, of various patterns and sizes, ver cheap for cash.

Also, a New Pattern Hot-air Cooking Stove, jus received, taking three-feet wood, better adapted for th country than the Burr, or any other Stove now in us. It has taken the First Premium at every Fair in th United States, where it has been exhibited

Ploughs, Sugar Kettles, Grist & Saw-Mill Casting Steam Engines, Sleigh Shoes, Dog Irons, and a gener assortment of Castings.

ROWSELL AND THOMPSON; PRINTERS, TORONTO.

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# CANADIAN AGRICULTURIST.

VOL. I.

#### TORONTO, OCTOBER 1, 1849.

No. 10.

#### ANNUAL SHOW OF THE PROVINCIAL AGRICULTURAL ASSOCIATION.

1849, was held at Kingston on the 18th, 19th, 20th 'order for that purpose, could be entered for exhiand 21st of September, according to appoint- bition without trouble; but so much difficulty was ment. The weather was cool and pleasant during thrown in the way by the Customs officer, in the the Fair, affording a most agreeable contrast to the various precautions he thought it necessary to take wet meeting at Hamilton. The grounds consisted to guard against a sale of any of the articles withof ten acres-part of a government reserve in the out payment of duty, that unless some simpler city-and were fenced off and arranged with taste mode can be discovered, we need not expect our and judgment. The show was, upon the whole, excellent-quite equal in most departments to any previous exhibitions-and afforded unmistakable signs of an increasing interest among all classes in the objects and benefits of the Association, and a determination to support it. The people of Kingston extended their hospitality with hearty good-will to the thousands of visitors who flocked from all points of the compass to their renowned city; every bed was called into requisition, and even sofas were found useful to rest many a zealous pedestrian, who had made too many circuits of the show-ground. We shall give a brief sketch of each day's proceedings, with a general review of the whole. It may be proper to state that Mr. Buckland, being the Secretary of the Association, and having had his time and attention completely taken up with the duties of his office, these remarks and the following reports are supplied by the assistant editor. They are not, therefore, to be considered official in any respect, but as the free, independent views of the writer.

THE FIRST DAY was occupied with the entries of stock, implements, &c., and the arrangement of the committees. Notwithstanding the published conditions with which competitors were required to comply, several animals and articles for exhibition did not arrive until Wednesday. This neglect is always productive of confusion in the Secretary's department, besides being unfair to those who conform to the rules, and bring their cattle, &c., in time. A good deal of unnecessary difficulty and delay occurred at the Custom-house, in getting the American articles entered. Messrs. gates on behalf of the State Society. Many other

Rapalje and Briggs of Rochester, brought over quite a number of agricultural implements, which The Exhibition of the Provincial Association for it was supposed, as the Government had given an American friends to contribute to our shows hereafter.

> SECOND DAY .- Wednesday morning, large numbers congregated about the gates, but, except the officers, exhibitors, and members of the Association, no persons were admitted until two o'clock. The Judges, in the meantime, were busy inspecting the various articles exhibited; but owing to the delays that had taken place in making the entries and ticketing the numerous objects offered for competition, they did not get through their examinations until the next day. We are not able to say what number of tickets of admission were sold on Wednesday, but we should judge that five or six thousand people passed through the gates during the day. In the evening, Prof. Johnston delivered a lecture at the City Hall. Some remarks thereon, and an outline of the lecture. will be found in another place. The visitors to the Fair were favored soon after dark with a fantastic display by a society of "Phisiogs," as they call themselves, who paraded through the streets of Kingston, bearing torches-some mounted on horseback, some in waggons, and others on foot. They were dressed and painted in the most outlandish style, and from what we heard, it would seem they have been in the habit of playing off similar antics for some time back.

> THIRD DAY .- The number of visitors to the show-ground on Thursday was considerably larger than on any other day. The Secretary of the New York State Society (B. P. Johnston, Esq.), Col. Sherwood, and Mr. H. Wager, appeared as dele-

American gentlemen paid us a visit also, and the locality of the "carriage road" or the orders of scemed much pleased with what they saw. In the morning a grand review of the troops took place on Barriefield-common. A large concourse of strangers assembled to witness the display, which was very imposing. Upwards of a thousand troops are now quartered at Kingston. After the review, which was some distance from the Fair ground, visitors again poured through the gates in a continuous stream, until the enclosed space was a moving mass of horses, carriages, cattle, and human beings of both sexes, and of all ages, sizes and characters. Fully a third more were upon the ground on Thursday, than on the day previous. The President, Mr. Sheriff Ruttan, delivered the annual Address from a stand in the middle of the ground, during the afternoon. Īι was somewhat lengthy, and embraced a variety of topics. It is much to be regretted that the President thought it necessary to make some allusions and reflections in the course of his address, calculated to hurt the feelings and offend the pride of the American delegates and visitors. It was thought by many-indeed we did not hear an opinion to the contrary-that they could very well have been spared from the address. We will do Mr. Ruttan the justice to say, however, that we do not think he intended to offend by his remarks; but such was undoubtedly their effect; and after so many attentions to Canadian visitors at the New York State fairs, and while a generous rivalry and much good feeling was springing up between the agriculturists of the two countries, which could not but be mut ally beneficial, we deeply regret that any interruption from such a source should have occurred. After the address, the Secretary announced the names of the successful competitors in those classes in which the Judges had completed their awards and returned their books. The Dinner took place in the evening, which we regret to say was not so well attended as was expected. Very few American visitors were present, the greater number having left in the evening boats.

FOURTH DAY-Friday.-When we entered the grounds this morning, there was a bustle on all sides-the exhibitor. looking after their stock, wares, &c., untying their bulls, collecting together their sheep and pigs, unscrewing machinery, and packing up for home. We observed several visitors purchasing tickets this morning, who had certainly come "too late for the fair"; nevertheless, they pushed into the ground at no small risk from the horses, waggons, carts and carriages that were hurrying to and fro, without any regard to to have borrowed new ropes for the occasion.

the Marshal, whose authority appeared by common consent to have ended. Their first was also their "last lingering look," and the panorama of the Cattle Show passed from their view.

#### THE PLOUGHING MATCH

Was to have commenced at 10 o'clock to-day, on the farm of Mr. Flanigan, about a mile and a half from the city. A little before 12 we repaired to the spot, expecting to see a grand array of teams at work; but the ground had not yet been staked out, and those whose duty it was to superintend the operations had not arrived. A few persons volunteered their services, and assigned to the ploughmen their respective lands. There were some thirteen or fourteen entries in the class for men, and but one in that for boys. But such ploughs! and such teams and ploughmen, we venture to say were never before collected together at a ploughing match in Canada West. Their work fully justified the expectations we had formed of them. The land, to be sure, was not the best; it contained numerous small stones, and was of a loose gravelly texture : but a good ploughman will show his skill on such a soil as well as on the best: indeed it is under such circumstances that his skill is needed; and perhaps the fairest way of testing the merits of a number of ploughmen, is to set them at work in a field like that at Kingston. In the present case, every rule that was ever laid down to secure good ploughing, was violated; and every defect that could be imagined in a case of BAD ploughing, whether in the construction or tempering of the ploughs, the training of the teams, or the skill of the ploughmen, was exhibited. We never saw such an exhibition before, and we trust we may never see its like again. In the first place, the lands were staked out at each end of the field, and the ploughmen were allowed to plant small stakes about three or four rods apart in a direct line between the two at either end, in order, we suppose, to run their furrows straight; but even with all this precaution, it was by some deemed necessary to get a man to lead their horses by the head! The co.npetitors were extremely goodnatured and accommodating, for each allowed the other to do as he pleased, without making the slightest demur. A yoke of oxen, with a worn-out Yankee plough, took their place with the rest, and, for aught we could see, did their work as well. Some of the ploughmen carried their reins in the old-fashioned way, over their head; others seemed

behind-from an unwillingness, probably, to spoil ing at Buffalo, and ventured, on behalf of Canada them by cutting, and to add to the picturesqueness. West, to accept a challenge from persons who of the scene. The ploughs were either too new or too old; the new ones clogged and drew hea- New York, but of which, by the way, nothing vily, and the horses being light and badly trained, were obliged to exert their strength to the utmost. Every two or three rods a stone would knock up the plough, when away she would go for another ploughman took hold, and-our fears vanished : rod at least, before the unfortunate ploughman we felt that our country's reputation was safe, and could get her into the ground again. As to stop- 'again breathed freely. Three or four persons tried ping the team and drawing back the plough to the it in turn; an American ploughman was procured. place at which she was thrown out, this seemed but all in vain-this plough did the worst work in not to be thought of. Of course, at the next round the field. Mr. Briggs himself seemed surprised at the sod was either unturned, or a divergence made its performance, but was not able to better it. to the right, exhibiting Hogarth's line of beauty to the admiring spectators. Some of the plough- offered, and more pains taken to secure a good men adopted the former, others the latter alterna- match at the next Exhibition. If the ploughing tive. As to the width of furrow, and the angle at match at our Provincial Show is to be the subor which it was laid, every possible variety was to dinate and wretched thing we have just described. be seen at this ploughing match. The wide fur-it had better be dispensed with; we shall only get row, laid flat. or nearly so, was most in favour, ourselves into disgrace. It should be remarked, though there were not wanting those who prefer- that the land in the neighbourhood of Kingston is red to set the furrow on its edge, so that the growth very rough and stony, and good ploughing not of the grass might not be checked too suddenly, much in request. The prizes were not such as to and leaving an agreeable alternation of fresh earth, induce good ploughmen at a distance to leave and green sod at every furrow. The ploughs were, home at so busy a season as the middle of Sepwith two or three exceptions, of the Yankee-Cana- tember, and the competitors were consequently dian pattern, the share and mould-board being of from the immediate neighbourhood, and they per cast iron, and the stilts or handles considerably haps not the best. longer than in the original Yankee. There were two or three iron Scotch plonghs on the ground, but they were in very bad trim, and did their work in a third or fourth-rate style. We observed also among the competitors a plough belonging to a species that we had long supposed to be extinct. This specimen had already attracted our attention on the Fair ground, where it was exhibited along with some of modern construction, to show by contrast, as we supposed, the progress of improvement. Its owner-a man of the last generation, who no doubt heartily despised the new-fangled inventions of the present day-was of a different opinion; and we must admit that the performance of his competitors was not calculated to remove his prejudice or shake his faith in the superiority of the past. There was but one circumstance that gave us satisfaction on this mortifying occasion. Mr. Briggs, of Rochester, who contributed with one of his best Yankee ploughs. touched the vanity of our neighbours by the free-lowner. Of course, if you happen to meet with the

which were allowed to drag nine or ten feet dom of our remarks on their ploughs and ploughundertook to act on behalf of the great State of further has been said for some time-we, who had done this, to be placed in such a predicament! It was truly awful. But the horses were hitched, the

We sincerely hope that higher prizes will be

#### THE EXHIBITION.

We come now to speak of the Exhibition itselfof the general character of the stock, and the qua lity and appearance of the articles in each department. Our remarks must be brief and general, for the simple reason that we found it impossible to get information that would enable us to be particular. Several members of the press complained of the same difficulty. This evil might be remedied to a great extent by a very simple rule, which we hope to see adopted by the executive committee of the Association, and enforced at our future shows. It arises from the neglect of the owners of cattle, implements, &c., to ticket them with the owner's or maker's name, age and breed of the animal, and name and use of the implement, &c. A person enters the show-ground; he sees a &c. number of horses prancing about-a lot of bulls tied to posts or held by ignorant boys, who can largely to the implement department, was there give you no information about them, at least none When we that you can rely upon; he passes on to the pens saw the tout ensemble which our own people pre- of cows, sheep, hogs, &c.; he may look in, but sented, and the exulting looks of our American except perhaps "Class H., Leicesters," or "Class friend, we trembled for the result. We, who had J., pigs," he can learn nothing of their history or

owner, which not one visitor in a hundred is likely to do, your darkness may be enlightened. Now, an easy remedy would be, to make it imperative upon all exhibitors to attach a ticket or label, with certain specified particulars legibly written thereon, to every distinct article entered for competition. It would be to the interest of the owners to do this, as it would receive a special notice by the press in many cases, as well as a more thorough examination by the spectators.

Horses .- The show of horses was never surpassed in this country-especially in the class for agricultural purposes. The famous Clyde was there, with one of his progeny of similar colour and nearly equal proportions. King Alfred, a beautiful bay, owned by Mr. Ashford of this district, is a splendid animal : for a horse of all work, such as our Canadian farmers approve, he is almost faultless. He has a rather small eye, which lacks boldness; his head too is not quite unexceptionable; but with these exceptions, we could not discover a bad point. He took the first prize, and, we think, justly. We believe he was at Syracuse, and obtained a prize in the foreign class. We were much pleased with a beautiful iron-grey, belonging to the Cornwall Agricultural Society. He was imported from Jefferson county. New York, and cost the Society £100. He is all action, well proportioned, good size, and well adapted for the carriage or saddle. A two year old colt, from the Wellington district, astonished all by his tremendous proportions, while at the same time his carriage was light and graceful. Many persons would not believe the owner's statement as to his age. He took the first and only prize in his class. Blood horses were well represented-not by numbers, but quality. Mercer, owned by John Gibson, jr., of Niagara district, carried off the first prize. He is 13 years old, 15! hands high, and in colour a rich mahogany brown. He was imported from England by Commodore Stockton of the United States navy, at 1 year old. He was sired by Amulus, and belonged to the stud of William IV. His present owner purchased him about three years ago, and paid, as he asserts, £750. He is insured for more than half this sum, or we should be disposed to say that Mr. Gibson they were brown, but we could not ascertain what had made an unsafe investment. Mercer is a particular animal had obtained prizes till the Fair little sprung in the knees, and shows the marks of was over. This is another great defect which age in other respects, but we heard good judges ought by all means to be remedied. Every posassert that there is no better blood in America. sible effort should be made to get the judges' Mr. Cumming, of Kingston, showed a couple of awards by the evening of the second day. When blood colts that will no doubt perform exploits on the public is admitted on the third day, the prize the race-course; but we confess our partiality for animals should be distinguished by appropriate the useful and the strong, rather than the fanciful marks. Unless this be done, half the interest,

and the swift, in horse flesh: a combination of these qualities, as exhibited in Hunter, the Cornwall Society's horse, accords best with our tasto.

DURHAMS .--- Bulls .--- The animals in this class were very good, and quite numerous. The average excellence of the whole number was high, but it did not strike us that any individual exhibited a marked pre-eminence. A two year old bull from the neighbourhood of Cobourg gives promise of great merit at maturity. The bull belonging to R. Wade, Esq., of Hope, to which was awarded the first premium, is a fine animal. Mr. Nightingale's bull, Sir Charles, for size, symmetry, and good points generally, was in our opinion entitled to the third prize at least; but he was objected to, as we have heard, on the ground of impurity of blood. He was bred by Mr. Mair, of Barrie, whom we have heard assert the purity of his ancesters on both sides; but we think there can be but little doubt of his having Devon blood in his veins, and he may therefore be fairly open to objection in a Durham class. The young bulls made a good show-an encouraging feature in this Exhibition, which we believe is one of the good results of these annual meetings. We may expect in two or three years to find good stock of the improved breeds in every township of the province. Cows .--- We noticed two or three first-rate animals; but as a w<sup>h</sup> ·le, we think there was a falling-off from previous shows. Nearly all the Durham cows and heifers offered, belonged to Mr. R. Wade, sen., Mr. R. Wade, jun., and Mr. John Wade, all of Hope, Newcastle district. These gentlemen deserve great praise for their spirited efforts to improve the stock of their neighbourhood. All the prizes, with one or two exceptions, in these classes fell to them.

DEVONS .- The number of Devon cattle was not greater than usual, and the quality about the same. Mr. Ewart of Dundas, Mr. Masson and Mr. Burnham of Cobourg, were the only competitors. We cannot particularize individuals, for the reason already given; nor can we describe even the colour of the animals which took prizes. In the case of Devons we might, to be sure, assume that

and, we might add, half the usefulness, of the almost every variety; some well constructed iron Exhibition is lost.

year, and give our farmers an opportunity of see- manifold implements, however, are not in our ing some pure specimens of that noble breed, opinion the most desirable or convenient. Fanwhich has for some time occupied the first place ning mills, stone cutters, cultivators, reaping in the markets of Smithtield.

those in the young classes being the best. We and dozens of smaller contrivances for facilitating hope to see hereafter much more numerous exhi- the many operations of the farmer, were all there bitions of grade cattle. We believe that crosses in their most approved forms, inviting the inspecof the Durham and other improved breeds, with tion of thousands of visitors. A portable grist mill, the best milking families of our native cattle, will known in the States as "Fitzgerald's patent porbe found most profitable for the common farmer. table Burr stone mill," was exhibited by Mr. Ross Amateurs, or "gentlemen farmers," as they are of Syracuse, New York. The mill, without the called, may patronize the pure breeds exclusively, bolting apparatus, costs \$100, and is capable of but we are far from despising a good cross.

of these pens were first-rate; but as a whole, the American Institute, New York city. He showed sheep of the different breeds were below our some flour ground by this mill, which took the expectations. Mr. Miller, of Markham, showed premium at Syracuse; it was certainly of a very a few choice animals of the Leicester breed. We fine quality. For new settlements, this invention noticed also a very fine shearling ram, belonging will supply a desideratum. Mr. Ross, indeed, to Mr. Cameron of Garden Island. South Downs' asserts, that when its merits become known, every were not more than ordinary. The fine-woolled farmer will be his own miller. He says it is about varieties were few in number, but, so far as we being put up in one of the large flouring establishcould judge, of good quality.

as if the choicest specimens of the several breeds riority, we have no doubt it will come into general had really been selected. In the other classes we use. We may hereafter give a cut, and a more saw individuals that might be matched by a selec- full description of this interesting machine. tion from the yard of almost any good farmer, but Messrs. Rapalge & Briggs, of Rochester, exhibited it would require some pains to find the equals of the best assortment of agricultural implements on the Berkshires and large breeds exhibited on this the ground. Their ploughs were well made, but occasion. The pigs of 1849 were perfect beauties. the pattern will not go down with Canadian

bited were nothing to boast of; we have often seen ploughing. Palmer's and Pennock's grain drills better in the Toronto market. Working oxen made (price \$60) will be more sought after as they are a good show, but we saw none worthy of particular notice.

agricultural implements was very creditable. Evi- finish. We have not space to particularize in this dence of improvement in this important branch of department, but refer the reader to the prize list, home manufacture, was clearly traceable in the on another page, for the names of the successful display of this year. Ploughs were exhibited in competitors.

ploughs, and other iron implements, from the shop AVRSHIRES were better represented than at either of Mr. Fleck of Montreal, attracted great attention. of the previous exhibitions of the Association. There were also imported iron ploughs exhibited, Until last year, if we mistake not, no premiums, from the foundry of Mr. Grey, the celebrated Scotch were offered for this excellent breed. Both they implement maker. The wooden Scotch plough so and the Herefords seem to be neglected in Canada, much in favour in this part of Upper Canada was though probably they are better adapted to the not well represented; we observed but one good country for all purposes than either of the other specimen, which was made, as we have since breeds. We had expected to meet our friend been told, by Mr. McTavish of Darlington. A Soetham, from Black Rock, New York, with a few double-mould board plough and cultivator comof his splendid herd of Herefords, but were disap- | bined, by Mr. Newton of Cobourg, was an object pointed. He will no doubt pay us a visit next of considerable curiosity to the farmers. These ; machines, horse powers for various purposes, GRADE CATTLE .- These made a tolerable show. cheese presses, churns, seed drills, root cutters, grinding ten bushels of wheat in one hour. The SHEEP .-- Leicesters were most numerous. Two proprietor had several medals awarded by the ments at Rochester, in the place of the common Pros.—We never saw a better display: it seemed flat Burr stones, after which, if it proves its supe-FAT CATTLE, SHEEP, &c .- The fat cattle exhi- ploughmen; they are only adapted for crossbetter known. Mr. Vale, of Toronto, exhibited a number of tools and implements of excellent con-IMPLEMENTS .- Taken as a whole, the show of struction, and greatly admired for their beautiful

was admitted by all to be deficient in the variety grapes, from the hot-houses of W. B. Jarvis, Esq., and number of articles. The quality of those Rosedale, Toronto; some very fine long blood exhibited was highly creditable. The blankets, beets, from Messre Leslie & Gordon, Toronto; a counterpanes and cloth, from the manufactory of dish of very large white egg plums, from Edwin Mr. Gamble, were all that could be desired; but Baldwin, Esq., Toronto; some excellent winter we were much disappointed to see so little compe- [cabbages, from William Daniel, and Mr. Sher-Intion. Mr. Drummond, of Toronto, showed some wood, Toronto; and a few specimens of choice beautiful furniture, as also did Mr. Botter of King- apples, from James Fleming, Toronto. There ston. An excellent assortment of stoves, scales, were also some very fine roots of the new yellow and other articles, was exhibited by Mr. Spencer globe mangel wurtzel. The season was early for of this city. Forks, aves, and other tools, were showing Swedish turnips, still the samples shown tion. We trust our woollen manufacturers will the other 202 lbs .- grown by Captain H. Snaw, not be so backward next year.

was good, but not extra. We saw two or three very fine samples of wheat, and some very poor ones-we heard several farmers say that they had much better in their barns. The Canada Company's liberal prize of £25, ought certainly to excite more general competition : Mr. Freeman time. Butter and cheese-the former especiallywere first-rate in quality. We missed the famous Niagara district - and pronounce it excellent. he has got too much matter. We may allude to We hope they will be able to supply the Canada these things in a future number. market, as no one can wish a better article. The hops exhibited were said to be of good quality and district-probably in the neighbourhood of the well cured. The corn, pease, &c., were not wor- Falls. A tremendous turn-out may be expected. thy of particular notice.

Of the contents of Floral Hall, we can hardly trust ourselves to speak in this number; we shall need two or three pages, to do them anything like following :justice. This was the great centre of attraction for the old and the young-the resident of the city and the faimer from his plough. The ladies' handiwork was beyond all praise, and exceeded all former exhibitions. The paintings, drawings, and other works of art, were highly spoken of by those who professed their ability to judge. The fruits and vegetables, to which we chiefly directed our attention, as we were crowded along by the immense mass of human beings constantly moving round the stands, were all so good, that the judges must have had considerable difficulty to decide respecting them. Amongst the articles exhibited in the Horticultural department which did not obtain prizes, we noticed some very fine speci-'a beast, the other but little lower than an angel.

DOMESTIC MANUFACTURES .- This department | mens of black Hamburgh and black St. Peter calle numerous and of excellent quality. Muldid credit to the growers. The prize parsnips Spencer's hot-an apparatus, and the model of a were the largest and best grown we have ever threshing machine, attracted a cood deal of atten- seen; and the two large pumpkins-one 260 lbs., Oakhill, Toronto, were much admired. We would HUSBANDRY.—In this department the display also-notice a very fine bunch of white grapes over 24 lbs. - grown in the open air, by Mr. Thompson, near Bytown; they were awarded the second prize, and well deserved it. There were no flowers worth looking at, the season being late and unfavourable for such productions : in fact. the only flowers exhibited were a few faded speciwas very near taking off the prize for the third mens of cut flowers, from the nurseries of Ellwanger & Barry, Rochester. We find it impossible to mention the names of all the competitors, and must Stilton of our friend Mr. Parsons. Two bottles of again refe; to the premium list. There were sevemustard, of home growth and home manufacture, ral miscellaneous articles, that contributed greatly attracted some notice. We have tried this mus- to the interest of the show, of which we should like tard - made by Messrs. Crawford & Imlach, to speak; but our printer already complains that

> The next Show is to be held in the Niagara Let the farmers of Canada show what they have done, and what they can do, on that occasion.

The Officers of the Association for 1850, are the

JOHN WETENHALL, Esq., M.P., Nelson, President. J. B. MARKS, Esq., Kingston, 1st. Vice-President. T. CLARK STREET, Esq., Niagara Falls, 2nd V. P. T. G. RIDOUT, Esq., Cashier B. U. C., Treasurer. GEO. BUCKLAND, Esq., Toronto, Secretary.

A SUBLIME TRUTH.-Let a man have all the world can give him, he is still miserable, if he has a grovelling, fettered mind.

Let him have his gardens, his fields, his woods, his lawns, for grandeur. plenty, ornament and gratification; while at the same time God is not in all his thoughts. And let another have neither field nor garden; let him look at nature with an enlightened mind—a mind which can see and adore the creator in his works, can consider them as demonstrations of his power, his wisdom, his goodness, and in his poverty, he is far happier than the other in his riches. The one is but little higher than

At a meeting of the officers and delegates of enhall, and E. W. Thomson, with power to add the Provincial Association held in the Committee to their number. Room, on the Show-ground, at Kingston, on Friday, September 21, the president, Henry Ruttan, Highness, Prince Albert, be elected an honorary Esq., in the chair, when the following resolutions | meinber of the Agricultural Association of Upper were adopted :-

1. Moved by Mr. E. W. Thomson, and seconded by the Hon. Adam Fergusson, that John Weten-hall, Esq., M.P.P., of Nelson, be President for

the cusuing year. 2. Moved by Mr. Asa. A. Burnham, and seconded by Mr. D. Matthews, that J. B. Marks, Esq., of Kingston, be first Vice-President.

Moved by the Hon. Adam Fergusson, and seconded by Mr. Wm. McMicking, that Thomas Clark Street, Esq., of Niagara Falls, be second Vice-President.

Treasurer for the cusuing year.

5. Moved by Mr. Marks, and seconded by Mr. R. L. Denison, that Geo. Buckland, Esq., be Secretary for the ensuing year. 6. Moved by Mr. E. W. Thomson, and second-

ed by the Hon. Adam Fergusson, that the next Show of the Provincial Association be held in the

Niagara District; the place to be determined by the Directors, at the annual meeting in February. 7. Moved by Mr. Clapp, and seconded by Mr. Saylor, that the next Exhibition be held during the third week of September, 1850.

8. Moved by the Hon. Adam Fergusson, and seconded by Mr. Angus Cameron, that the thanks of the Association be given to the President for laging the pushess of the armonic of providing and and that he be requested to furnish a copy to the Editors of the Agriculturist for publication..

9. Moved by the Hon. Adam Ferguson, and seconded by Mr. Thomson, that the best thanks of this meeting be given to the Executive Committee for their zealons and valuable services.

10. Moved by Mr. Thomson, and seconded by Mr. John Wetenhall, that the best thanks of this association be given to Mr. March, of Scarborough, for presenting the Canadian Coffee Plant at this Exhibition.

11. Moved by Mr. Marks, and seconded by Mr. Wheitfield, that the best thanks of the Agricultural Association be given to the Canada Company for the continuance of their liberal subscription of £25, for the best 25 bushels of Fall Wheat, the produce of Canada West.

the Canada Company's prize wheat, among the subscriptions in aid of the funds of the Association, Districts represented at this meeting.

13. Moved by Mr. Briggs, and seconded by Mr. J. W. Rose, that the Secretary be empowered to prepare reports of the proceedings of the Association, and that a committee be appointed, with whom the Secretary shall confer, such Committee to consist of Messers. Sheriff Ruttan, John Wet-

\* The address reached us too late, and is too long for the pre-sent number; it shall appear in our next.

14. Moved by the Hon. Adam Fergusson, and seconded by Mr. E. W. Thomson, that His Royal Canada.

15. Moved by Mr. Marks, and seconded by Mr. Thomson, that the following By-Law be submitted for adoption by the Board of Directors at their annual meeting in February next :--

#### BY = LAW.

Whereas by Act 10 & 11 Vic. cap. 61, suadry persons therein named were incorporated under the style and title of "The Agricultural Association of Upper Canada," for the purpose of the improvement of agriculture, and the encouragement of domestic manufactures; it is provided by 4. Moved by Mr. Robert Watson, and seconded the second clause of the above named Act, that by Mr. John Wair, that T. G. Ridout, Esq., be the Constitution may be amended under certain regulations therein mentioned; and whereas it will facilitate the business of said Agricultural Association by making the following regulations:

1st. Be it enacted, &c., That from and after the passing of this By-Law, there shall be an Executive Committee chosen, to consist of not more than fifteen nor less than eleven members, five of whom shall constitute a gaorum for the transaction of business; and that the odice bearers of the Asso ciation, and ex-presidents shall at all times be members thereof.

2nd. Be it, &c., That the Executive Committee appointed in any district for the pn. pose of managing the business of the annual Exhibition, shall making all the necessary arrangements connected therewith, in the same manner and with the same ambority as can be done by the original Board of Directors.

3rd. Be it, &c., That so soon as any committee of management shall be appointed for making arrangements for the annual Exhibition in any district, they may commence their meetings and choose a chairman, secretary and measurer. A minute book, recording the proceedings of each meeting, to be kept by the secretary of said Com mittee, and after every annual Show, to be delivered to the Secretary of the Association, to be, kept among the records in his charge.

4th. Be it, &c., That said Committee shall have power to enclose such ground and erect such buildings, either by contract or otherwise, as they 12. Moved by Mr. John Wetenhall, and second-or a majority of them shall agree upon, for the ed by Mr. E. W. Thomson, that the Secretary of the Executive Committee be directed to distribute shall be empowered to collect money, and receive and pay premiums, and do all manner of things that may be required for effectually carrying on the business of the Association; and no member of the Executive Committee of Management shall be concerned in any contract or work of profit, directly or indirectly, as surety or otherwise, ordered to be performed for the use of the Association.

5th. Be it, &c., That the treasurer of the said Committee shall be required to give security for

the safe-keeping of all monies in his hands, and shall keep a correct account, under specific heads, On Wednesday evening, the second day of the Fair, of all monies received by him either from the Professor Johnston delivered a very interesting Lecture Secretary or Treasurer of the Association, her in the City Hall. Owing to some oversight no suit-Majesty's government, other districts, private able preparation had been made for the occasion — subscriptions, and every other source, as well as even seats, except a few which were in the room, had foll dimensioned and seat and the problem provided, and until within a few minutes before of all disbursements made and premiums paid, the not been provided, and until within a few minutes before erection of buildings, hiring and renting of houses if required, and all other necessary expenses, and the balance of money in his hands remaining (if whom was the writer, strayed into an adjoining room, any) to be paid over to the Treasurer of the Asso- used as a place of worship, where they remained for half ciation, or to the treasurer of the next Executive an hour, expecting every moment to see the Professor, Committee, as shall be directed by the next Gene- until the ladies began to assemble for prayers, and thus ral Board—the said account to be made up in the made them aware of their mistake. We mention these shape of an account current, and transmitted to circumstances, not merely by way of complaint but to the Secretary of the Association, to be kept among account for the thinness of the audience, and in the hope the records in charge of that officer.

Exhibition shall have been voted to be held in Johnston, was composed of some of the most intelligent any district in the province, the Executive Com- of the citizens, and many of the best farmers in the counmittee shall call to their assistance the Secretary 'try. The President, Mr. Ruttan, occupied the chair, of the Association, who will furnish from the President of the Association, J. B. Marks, Esq., and desire for the function as the Committee may several other Association, J. B. Marks, Esq., and desire for the purpose of making the necessary. Professor Johnston was introduced by the President, arrangements for the forthcoming Show; and the and began by an allusion to the difficulty under which said Secretary of the Association shall, if required, he labourd in attempting to address an assemblage of attend in person at the place appointed for the Canadian farmers in a practical or profitable manner, annual exhibition, as often as the Executive Com- with but a slight knowledge of their situation or the mittee shall require.

7th. Be it, &c., That the subscribers and members of the agricultural societies of the district wherein the annual Exhibition may be held, shall be also members of the Association for that year, to address them, but as it would be impossible in the and agricultural societics of the district shall devote scientific information to those who had not already detheir whole funds for the year, including the government grant in aid of the Association. And the office-beaters of other district societies that es. [We must here state, that the learned Professor's shall have made donations, or contributed towards lecture was chiefly extempore. and being unable to the provincial show not less than 25/. for that year, obtain a table or a candle, the writer was obliged to shall also be furnished with badges of membership for fiee entry into the grounds of the Exhibition.

Sth. Be it, &c., That after every annual Exhibition, the Executive Committee shall prepare and transmit a report to the Secretary of the Association, detailing the particulars of their proceedings and condition of the soil; the means to be used to prevent arrangement, the said report to point out from time exhaustion of the soil; and the means to restore it. to time any defect in the by-laws, and recommending such alterations and amendments as they may deem expedient for conducting the business of the annual Exhibition.

as rules and regulations for conducting the show, more than their fathers. Another reason for neglecting shall be prepared for the current year by the to study the means of preventing the exhaustion of the general board, at their annual meeting in the city soil was, the well known fact that the farmers were in lated through the province as early as possible.

#### PROFESSOR JOHNSTON'S LECTURE.

the hour appointed for the lecture, the persons about the premises did not seem to know that such an occurrence was, to take place. Thirty or forty persons, among that such things will be better managed hereafter.

Theaudience, though small compared with the number 6th. Be it, &c., That whenever the annual of persons in the city who were anxious to hear Professor

peculiarities of their soil and climate. He had but just come from the New York State Fair at Syracuse, and consequently had seen but little of Canada.

The Professor then referred to the variety of subjects on which, from his past pursuits, he might be expected have badges accordingly provided; the short space of a single lecture, to communicate much voted considerable attention to the subject, he would confine himself to a few points of a practical character, applicable to the situation and wants of Canadian farmscratch down a few notes on the top of his hat. We can, therefore, give but a very meagre outline of the lecture, and do not pretend to give precisely his language.

The learned lecturer said, there were three considerations of great importance to the farmer in this country. The causes which had, in many places, produced a sterile Most of the early settlers were but little acquainted with the proper means of either preventing exhaustior or restoring to the soil its exhausted elements. The earth yielded abundantly, and they thought it would continue to do so. Their sons grew up in the same 9th. Be it &c., That the premium list, as well belief, and from their situation were not apt to know of Toronto, in the month of Febuary, and circu- the habit of selling their worn-out farms and moving off lated through the province as early as possible. to new land. This was the character of the early farm-INFLUENCE OF MANURE ON ROOTS.—Hoarc, in his thought he was not called upon to do any thing for pos-It was which was rich in fertilizing material, it sent out minute causes, exhaustive culture is the main cause. If he were to enter upon a consideration of all the causes

Treaties on the Vine, states that a hone was placed in terity. as posterity would do nothing for him. It was a vine border, surrounded by dry clay. The vine sent very evident that the produce of wheat in New Brunsa root directly through the clay to the bone. In its pas- wick. New England, and western New York was falling sage it threw out no fibres, but when it reached the bone, off; and though this failure is often attributed to natural ramifications, and by degrees entirely covered it.

which produce exhaustion, it would occupy the whole wider field. Larger Societies like this are also useful, in evening; he would, therefore, briefly consider the exciting emulation between townships and districts, means by which the productive powers of the soil may The man who thinks himself the largest cock on the be maintained.

The use of lime had in many cases restored land .--The use of lime had in many cases restored kind.— (very small, by intering together in large numbers you He had often, at home, seen the best results from the obtain a great amount of intellectual and moral power, use of lime. The use of bones, in various ways, restored 'through the united labours of the most industrious and land that had become incapable of producing corn—by the most intelligent of your class. which he meant all kinds of grain. In some parts of Another mode is, the diffusion of agricultural litera-Canada he believed bones had been used, and had been ture, by the general circulation of such useful periodicals found to improve the land for the production of wheat as the *Canadian Agriculturist*. Indeed, this is one of the and other grain. He would take the opportunity to very best modes of diffusing knowledge among farmers. make the matter plainer by briefly explaining the prinmake the matter planter of this substance, you observation arise forming phosphoric acid. Now, one bushel of Agricultural Society of Scotland, the Royal Agricultural Societies and this substance-phosphoric acid. Society of Scotland, the Royal Agricultural Societies arise forming phosphoric acid. Now, one bushel of this substance-phosphoric acid. Society of Scotland, the Royal Agricultural Societies arise forming phosphoric acid. acid. The growing of grain for a long series of years on the same soil, exhausts this substance. Bones contain the French, and even the Russian Societies keep jourphosphoric acid in large quantity, and actually restore to the soil this substance-the very thing, the absence of which makes it fail to produce. Another mode by of which makes it has to produce. Another most of alternion to the natisations of the row tork black lag-which exhaustion may be prevented, and is commonly ricultural Society. [The learned Professor here exhibit-restored, is the application of manure. In the course of ed a copy of the work, which had been presented to his journey to attend the Fair at Syracuse, he had scen him.] This volume contains 979 pages, and though in land on which crops of corn had been grown, with nothing beyond the occasional application of manure, for 50 years. In the neighbourhood of Picton, N. S., and Prince Edward's Island, he had also seen land on which York. Many of the papers are drawn up with judgment successive crops of corn (wheat, oats, &c.,) had been raised for 50 years and upwards. However such a system may be carried on, it is like taking money out of funds permit, you should by all means publish your your purse, and if you go on will certainly exhaust it. The way to prevent this result, and to make your land produce good crops, is to adopt a proper rotation and a better system of manuring. Gentlemen would know. ings, properly prepared, as in the State of New York, better than he could tell them, the extent to which this gratuitously, or at the public expense, and no doubt a system had been carried on here. In this country, so large amount of good would result from their circultafavourable for the growth of wheat, the average yield tion. These are some of the modes of repairing the was not, as he had been informed, 15 bushels per acre. In parts of the neighbouring State of New York, the average was not 10 bushels; and taking the whole State the average was not 15 bushels. In England it was not uncommon to raise 50 bushels on an acre. He believed in many parts of Canada the land would grow 40 bushels to the acre; and he could see no reason to doubt that the soil of Canada, adapted to growing wheat, might be made to produce an average of 30 bushels.

every man finds his own stock greatly increased. An- off by the evaporation of the water. Now, it is importother means is, the establishment of societies for discus- and that grass, &c., should grow rapidly, which it can-sion, like our Farmers' Clubs at home and in the United not do it the soil is kept too cold. Besides, on dry land States. Questions of practical importance are discussed a ton of grass will go much further as food for cattle. If

dunghill at home, when he comes here finds himself ivery small. By meeting together in large numbers you

observation in reference to your own society. All large societies like this, should have some memorial of nals of their transactions, which are printed and extensively circulated. But he would rather draw their attention to the transactions of the New York State Agso large an amount of matter there may be some nonsense, there must necessarily be a great amount of val-uable information connected with the State of New and skill. Every State has something special which needs to be ascertained and recorded. Whenever your transactions, which would stimulate members to make experiments in order that they should be known. Your Legislature might be induced to publish your proceedeffects of exhausted soils, and to find out and adopt means to prevent your new lands from becoming exhausted. Another practical point he would mention,-considerable benefit might be derived from drainage. There are two kinds generally adopted. The first and most simple kind is surface dramage, resorted to for the purpose of carrying off the water of springs, bogs, &c. This kind of drainage, he was told, would in Canada might be made to produce an average of 30 bushels. Another method of repairing the effects of exhaustion is, the adoption of a better system of husbandry gener-drainage, and was much practised in England and Scot-Another method of lepter system of husbandry gener-land. It had been found very profitable. He would system of rotation, selection of the best varieties of wheat and other grain, and giving proper attention to the other points to be attended to in the general details of farming, such as ploughing, drilling, hoeing, procuring, suitable implements, &c., &c. Now, how is this im-proved system of agriculture to be introduced, and its general adoption by the farmers of the country to be viz... thorough draining. has not yet made much way in brought about ? By diffusing information, by spreading knowledge is your primary schools. But knowledge hy means of societies such as this. Agricultural Socie-may be diffused by other methods also. For example, would become cold,—the heat being carried off by kind of knowledge. When the average amount of knowledge possessed by these societies is considerable, with water. The heat which the plant requires is taken every man finds his own stock greatly increased. Anthe information elicited becomes common property, you were placed in a bog you would find yourself grow and advances the general good. Individual emulation is cold, and you would become wann on a hot soil. It is excited; each tries to outdo his neighbour; their land the same with your cattle. Animals will eat mere on is cultivated better, and improvement spread over a cold soils than on those which are dry and warm,

and yet not thrive so well. On cold, wet land the countries, and he had found as much intellect among animal becomes cold also, and a large portion of them as among any other class. But the real difference what he eats goes to supply the warmth of which he has been deprived. Upon dry lands also, the farmer can get in his seed earlier. A great deal of the line might tell them something of the condition and mode failure in growing wheat was owing to just, which was failure in growing wheat was owing to just, which was more destructive in moist situations. The Genesec Valley, though celebrated for the production of wheat was in many parts subject to the attack of rust; while upon the uplands no fear of rust was entertained. Thus that farmers are scattered over a wide space and have

such as mangel wurtzel, carrots. &c. In your Province, the rest, he was made a minister or a lawyer, while the if you keep much slock through the witter, they cat up the produce of the summer. The hay crop had failed the produce of the summer. The hay crop had failed the found the same opinic prevailed in America. If this year in New Brunswick, in some of the States of the Union, and he believed it had also failed to a considerable extent here. Farmers must, therefore, see the classes in intelligence. But the time is come when importance of providing more food for their stock. Ex- furners must be conviced that they need education, periments at home had proved that the same extent of Those who came early to this country knew but little land would produce a far greater amount of food in the of agriculture, or the modern improvements which shape of green crops. It was more profitable to keep science had brought about; and having got on very well stock over winter, if sufficient food could be raised on with their rule systems, they think it unnecessary that the farm, than to sell at a sacrifice in the fall. He did their sons should know more than thereselves. But not intend to kny down tules or dictate to his hearers, in when hand has been some time cultivated, it will be ima matter of this kind. He threw out the h ut and their possible, unless farmers are caucated to farm profitably, own judgment and experience would guide them. In or to follow out modern systems of agriculture. Under Scotland agriculture is now in a highly advanced state, such circumstances the farmer, to be successful, must But fifty years ago, the farmers there were in the same have a knowledge of principles. The farmer is like the state as to green crops, that you are now. They were physician; he must understand the nature of the disease, obliged, for want of food, to kill their cattle in the fall, in order to prescribe the remedy. He must compound and in the spring of the year no good beef was to be seen in the markets. Since the ultivation of green crops, every famer keeps his stock during winter. Why may not you, by adopting a similar practice, do the same, how much is required in the successful prosecution of how much is required in the successful prosecution of how much is required in the successful prosecution of how much is required in the successful prosecution of how much is required in the successful prosecution of how much is required in the successful prosecution of how much is required in the successful prosecution of with profit and success ?

another, in the improvement of your agriculture.

to work with a bad tool, he not only does his work worse, but he takes a longer time to do it. The em-ployer in such a case pays far more than is necessary. He would save money by improving the implement. And so it is with the farmer.

for their consideration; but he would also like to address to school yourselves, it is your duty to provide suitable them on one or two of the moral points of agriculture. education for your children. This may be obtained in They were such as applied to every country. He re- properly-organized schools. He did not sufficiently unferred to the low position which the agricultural body derstand the condition of this province, to offer any occupy in intelligence. The remark was equally appli-i opinion as to how this instruction may be given in the cable to the farmers as a body at home. The great dis-tinction was to be found in the training of the intellect. The opinion prevailed, he believed, over a great part of of agriculture could be introduced through the agency of North America, that the agricultural body was less in- the common school. A small catechism like this (the telligent than other classes. Now it was not because Professor exhibited a copy of his own little catechism, they were naturally less capable of intellectual improve- which has been introduced with so much success into ment. He had been much among agriculturists in other the schools in Ireland and Scotland], contains all the

one of the most formidable enemies of the wheat less opportunity to study. Another great evil is, that grower would no doubt ultimately be overcome by the education of the agricultural classes has been ne-proper draining. There was another thing which occurred to him do not require education. This is a great mistake. This might be introduced more extensively with advantage. Jalse notion had long existed at home; and if one boy in all the Provinces, viz., the growing of green crops, of the farmer's family showed more eleverness than agriculture. For instance, a bushel of wheat required with profit and success ? Another point not unworthy of consideration is the want of good markets, so universally complained of, not parts of the country the only thing wanted to obtain a market is to give your produce legs, by which it could get to market of itself. He referred to the beef and pork of the Western States, which were driven to a com-venient point on its legs at a little cost. Thus you see how all these different points are connected one with another, in the improvement of your agriculture. shows you how much mind is required to understand their attention — improvement in agricultural imple-ments. He was much interested with the implements by of ten years old understand these elementary prin-teriors, he had that day seen in the show yard. Many of your implements have been defective; but it was evident a great improvement is taking place. If you set a modului of the feature in the state of the state o to farm skilfully, and to overcome him. A skilful system is that which makes a farm produce large crops at less cost than it would otherwise do.

It thus becomes apparent that in order to improve agriculture, and to raise the position of the farmer in the He had thus, he said, selected a few practical points social scale, you must educate him. If you cannot go cient amount of instruction in the elementary principles principles that are necessary. A very little time is had found the ground either covered with snow, or knee required to master them; one hour a day would be suf-(deep in mud. We are in the habit of looking down on ficient. Higher schools might after some time be esta- the farmers of Lower Can da as inferior to us. He blished. good. He had thus dwelt upon a few material facts, farms remarkably well cultivated. There was one espewhich he had ventured to recommend to their notice, t cially, farmed by an Englishman, Mr. Penner, better hoping that some good might result from his observa-1than any he had seen in Upper Canada. He (Mr. W.) tions. expressions of applause.]

seconded by E. W. Thomson, Esq., that the best thanks culture of that part of the country. He spoke in terms of this meeting be given to Professor Johnston for his of culogy of the offorts of Major Campbell to improve highly interesting and instructive lecture .- Carried by farming in Lower Canada. acclamation.

him wherever he may go. And we earnestly hope that begged to propose so valuable a life may long be spared to aid the great "The Lower Canada Agricultural Society." work of advancing the agriculture, not only of our own Empire, but of the whole civilized world.

#### THE DINNER,

society. Preparations were made on quite too tion, but also in the stock. There was much truth in society. Preparations were made on quite too tool, out also in its social. The breeding goes in at season, many farmers had not yet got through the mouth." He paid a high compliment to Major their full work. Thousands did not in consequence. their fall work. Thousands did not in consequence attend the fair at all, and of those who did, hundreds left for their homes during Wednesday and Thursday; which, together with the absence of the Governor General, very well account for the mined the many attractions it presented, and concluded large expectations of the dinner committee being ; the walk with a glass of the best cider he ever drank in disappointed. We copy the following report of his life. If any man could go over Mr. Penner's farm, the toasts, speeches, &c., from our contemporary take a glass of his cider. and forget all about it, he must the *Examiner*, the assistant editor of which was be an ungrateful dog. He would propose on the spot. On comparing our notes with his, we find them so nearly alike that we spare ourselves the trouble of writing them out.

The dinner, on Thursday night, at Mr. McPherson's warehouse, a room of extraordinary dimensions, was a partial failure in point of numbers. Seven or eight hundred were expected, but about one-third of the tables times the number of things were exhibited. Last year, were without occupants. The failure was probably at Cobourg, there was a great improvement in the owing in part to the price of the ticket being placed at arrangements. This time the stock was good, if there a dollar; but in making the arrangements, the com- had been a falling off in number. The ladies of Kingsmittee no doubt had an eye to the somewhat remote ton had certainly produced as good articles as we have probability of the Governor General being present.

The President was supported on his right by E. W. Thomson. Esq., and on the left by Professor Johnston.

The following toasts were given from the chair:

" The Queen."

Song-"The Queen, God bless her," by Mr. Hill, Mayor of Kingston.

"The Queen Dowager, Prince Albert, and the Royal Family."

"The Governor General."

couple of faint "no, no's," which were instantly drowned aud in fact sought out a Canadian wherever he was to in the tremendous burst of enthusiasm with which it be found for the purpose of making him the lion of the was drunk.

"The Army and Navy."

and Mr. Marks, on the part of the navy, returned but confound them they charge us one-fifth of its value thanks.

Model farms would also be productive of great could only say that, around Montreal, he had seen sou.e [The lecture was warmly received by frequent was very well acquainted with the officers of the Lower Canada Agricultural Society, and he could testify that It was moved by the Hon. Adam Fergusson, and they had done all in their power to improve the agai-It would give great satisfaction to the Agricultural Society of Lower Canada, We think it due to Professor Johnston to state, that his when they hear that this is the first toast drank, after services were perfectly gratuitous, and that the best the usual toasts. There should be a good feeling be-wishes of his Canadian fellow subjects will accompany tween the farmers of Upper and Lower Canada. He

Mr. Penner replied. He observed that there is one branch in which almost every young farmer who is brought up in Lower Canada learns to excel, and that is ploughing. A straight furrow is much better in every respect than a crooked one. Improvement has We regret to say, was pecuniarily a loss to the taken place in Lower Canada, not only in the cultivaimproving the agriculture of Lower Canada.

Hon. Adam Ferguson bore testimony to the correctness of what had been stated by Mr. Wetenhall. Mr. Penner's farm is a garden. He had gone over it, exa-

"The Agricultural Association of Upper Canada."

Mr. E. W. Thomson replied. He was President of the Association the two first years of its existence. The first exhibition was got up under very adverse circumstances, and after a notice of only seven weeks. Next year the exhibition was held at Hamilton, and, notwithstanding the rainy weather, more than three had exhibited on any previous occasion.

Mr. Wetenhall, M. P. P., feared that the toast he was about to propose was so similar to that he proposed before, that it would be difficult to add any thing to his previous remarks; but if we were to drink it in silence, it might be said we were ungrateful for kindness received. When he had been at the State fair of the New York Agricultural Society, the greatest attention had been paid to himself and his fellow Canadians. The Secretary had at once supplied them with badges and The announcement of this toast at first elicited a tickets; the Americans showed them every attention, dav. The President in his address said we were indebted to them for a thoroughfare, but we were indebted Captain Dee. of the Rifles, on the part of the military, to them for a great deal more, for a market for our wheat, in duty. He would not give the President a rap or Mr. Wetenhall, M. P. P., regretted that some one attempt to combat his protectionist ideas, for if he did he better acquainted with Lower Canada had not been should infringe one of the fundamental rules of the Socibetter acquaintent with hower Canada had not been should infinite one of the infiniteness a subsolution of the second structure of the ety-that not a word on politics should be breathed, had had little opportunity of seeing the agriculture of The next exhibition would probably be West, near the Lower Canada, as it had always been in the winter Falls, where the Americans would have a good opportu-when he had visited that part of the province, and he nity to come over, and he hoped they would come not as to-day by twos and threes, but by hundreds and thousands (cheers). He begged to propose,

" The Agricultural Society of the State of New York." cans there to reply, he would play the Yankee for once. Mr. F. then replied to the toast. Mr. Marks proposed Mr. G. A. Barber of Toronto, returned thanks. Mr. F. then replied to the toast. Mr. Marks proposed

" The Press."

ence over opinion, and he desired to see it conducted by Society of Ireland." able men, free from scurrility and abuse, and giving a proper direction to public opinion.

Dr. Barker, as the oldest member of the press present, replied. It was not fair to complain of the scurrility of persons were dining together and taking claret, all of the press. can at any time check the scurrility of the pre-s; but think if they could not do something more for agriculin all new countries there is a love of personality, and twe than drink success to the Highlanders. That was so long as any considerable number of persons can be the origin of a society that now counts its thousands of found who are foud of personality and abuse, the press members and distributes its thousands. will never be wholly free from these faults. to return thanks on behalf of his professional friends.

Mr. E. W. Thomson gave

"The Mayor and the Corporation of Kingston."

The Mayor returned thanks. He begged to propose, "The President."

The President returned thanks, and gave

"The Executive Committee of the Association."

Mr. Marks replied. He thought the Legislative grant to the Association ought to be increased to £500 a year, and the District where the exhibition was held might The amount of the Legislative grant, raise £500 more. £250, had not been received. If the Committee did not receive it in time to pay the premiums, they would borrow the money, for it would not do to give a due bill to any man who had earned money here faithfully by competing.

The Chairman gave,

"The Health of Professor Johnston."

Professor Johnston returned thanks. No person, he remarked, who knows much about the agriculture of Europe would have expected such an exhibition in Canada as we have witnessed these two days. It would be quite unfair to compare your shows with those in be quite untail to compare your shows and into an arrival and, the same rate of dury which they into the united States. If canadian, when imported into the United States. If cultural Association. That is a true statement, and I am to take the matter into our own hands, abolish our custilities of the conclusion that in an agricultural. point of view, Canada is progressing. Thear complaints, and well-founded complaints. But can you expect to control the elements, or the minute fungus that comes we know not whence, and goes we know not where ? It is to be hoped that these causes of complaint are passing away, and that in two or three years, the insect and the fungus will be seen no more. The agriculture of any country depends on the rising generation. Within a few years agriculture has taken a step in advance; and this imposes a duty on the young of acquiring what their fathers did not. I was told that the natives of New Brunswick were not so industrious as their fathers were. I do not allude to the Europeans, but to the "blue noses." I know not how it is with you in Canada; but there is a restlessness in the young men of America, which ought to be guarded against. The speaker then recounted some of the advantages that would result result full of promise and encouragement. from the establishment of an agricultural institution, the public works are now bidding fair for yielding a necessity and utility of encouraging such works as the large revenue to the country; and the amount *Canadian Agriculturist*; model farms might be est ture might be diffused through the medium of the pri-mary schools. You have several colleges in the coun-try, and some of them might have professors of agricul-ture, who could also superintend the model farms. I to enter into honourable competion, that the con-try and some of them with the world the model farms. I

consider, and if you do consider them, I feel convinced you will come to a right conclusion.

Mr. E. W. Thompson proposed the health of the Hon. Adam Fergusson said, if there were no Ameri- judges, many of whom were ladies, and had most ardu-

" The Highland Agricultural Society of Scotland, the He spoke of the press as exercising an immense influ- Royal Agricultural Society of England, and the Royal

Hon. Adam Ferguson returned thanks. He had sat for four or five years at the Board of the Highland Soci-ety of Scotland. About fifty years ago, some half dozen The people are to blame in the matter ; they them proprietors, and one of them his father, began to The farmers He begged ought to be well educated; they should know something of the laws of the country, should be acquainted with chemical science and botany; know all the points of cattle and their organic structure. He had a toast to propose, and he did not know how they came to put it into the hands of an old grey-headed fellow like him; but he was always willing to do his duty towards the ladies. Hoping they would get their heart's desire in getting good husbands, he begged to propose,

" The Ladies."

Mr. Mackenzie, of Kingston, a year-worn bachelor, replied in a jocular speech, altogether very funny, and

a little lengthy. He gave "The Ploughmen of Whitby." Mr. Peter Perry replied. He explained the advantages of good ploughing. The farmers he considered the first class of the community, the mechanics next, and the merchants third. The farmers must become their own legislators, and no longer entrust their most im-portant interests to a lot of pettifogging lawyers. He dwelt at considerable length upon the commercial position of the Province. We ought to ask England to endeavour to obtain for us reciprocal free trade with the United States ; and, in the event of the Americans refusing, to impose upon their produce admitted into Engtoms, admit English goods free of duty by the St. Law-rence, and he would defy the d-l to prevent the States bordering on Canada, from being filled with smuggled goods. (Laughter and cheers.) He concluded by giving, "The Ploughmen of Canada."

The assembly then broke up. The whole proceedings of the dinner passed off with enthusiasm and the best possible feeling.

#### WELLAND CANAL.

We insert below the amount of Tolls received, from this important Canal, during each of the first four months after the opening of navigation, for the years 1848-49. The increase of the present year amounting to 53 per cent. over the last, is a Our mention these as matters which you would do well to nection between our improved water communica-

tions and	the great int y be fully and	erests of the	ade and a set forth.	agricul-
A - #1	1849.	)	1848.	

May 5916 4 🙀	April £1745 17 9 May 4650 4 14 June 2761 4 6 July 2566 11 94
£17,994 0 01 11,723 18 2	£11,723 18 2

Increase in 1849. £6,270 1 10}

#### (CIRCULAR.)

# To the Editors of the Agriculturist.

Cobourg, Sept. 22, 1849.

GENTLEMEN,—I beg leave through you and all the public newspapers of the Province, to apologise to the Delegates of the New York State Agricultural Society, who honoured us with their presence during part of our exhibition, for having neglected to read their gratifying letter at the dinner. The bustle and confusion, at the moment this letter was handed me, entirely prevented my recollection from calling it up at the proper time.

I trust, however, that all the papers who may notice our proceedings, will be good enough to copy the enclosed, as also this apology; by which means, I trust, some reparation to the New York State Agricultural Society who honoured us with this delegation, as well as the distinguished gentlemen who composed it, will be made.

> I am, sir, Your obd't servant. H. RUTTAN, President Ag. As. U. C. (COPY.)

Kingston, Sept. 20, 1849.

#### H. RUTTAN, ESQ.,

#### President Provincial Agricultural Association.

DEAR SIR,—It is with great regret that we are obliged, by imperative engagements, to leave this city without partaking of your hospitalities at the Agricultural Dinner, to which we have been favoured with your invitation.

Permit us to express to yourself and to the officers of your Association, our most heart felt thanks for the attentions which have been shewn us, and the facilities we have enjoyed of examining your Exhibition. so creditable to your Association and to the Province. We trust that the interchange of delegates between your Association and our Society will be continued, and prove, as we trust it has heretofore, most salutary.

We ask you, Sir, to offer on our behalt to your Association at your dinner, the following sentiments :---''The "Provincial Agricultural Association of the Province of "Cauada; its exhibition has been most gratifying to the "Delegates from the New York State Agricultural So-"ciety, and they desire, and trust, that its future history " will be one of continued increase, and result in great "good to the agricultural interests of Canada." We have the honour to be, Most respectfully, your obd't servants,

Low Services, Cor'g Sec'y N. Y. State Ag'l Society. J. M. SHERWOOD. Ex-President. HENRY Wasten, Member of Ex-Committee.

It is calculated that the prime cost of the materials used in England and Wales to produce artificial light, viz., coal. oil, tallow, camphine, &c., cannot be less than £11,336,000 per annum.

#### NEW YORK STATE AGRICULTURAL EXHIBITION.

This important affair came off during the second week of September, at Syracuse; and from all we can learn, it has been eminently successful. In point of numbers, both as regards stock, implements and visitors, it far outstripped any of its predecessors, which is saying a good deal, as such of our readers know who attended last year's show at Buffalo. The weather was delightfully fine; and the show grounds were conveniently situated on high ground, about a mile from the city, com-manding in all sides extensive and picturesque views. It would be difficult to find a prettier spot for such a purpose. The countless numbers of well dressed, and, what is better, well behaved people, both on foot and in carriages, pouring in and out the extensive show grounds in one unbroken file, with enjoyment and good will depicted on their countenances, presented a grand and imposing spectacle. We have neither space nor time at present to go into any particulars, and as yet have seen no authenticated reports of the show, which will doubtless appear in the American Agricultural papers. We can only say, in general terms, that such an immense display of live stock and farm produce, with an endless variety of mechanical, horticultural, manufacturing and artistical productions; a large portion of which, being of a high order of merit, are most honourable to the empire state, indicating, in a manner not to be mistaken, the intelligence, enterprise, and rapid progress of its people. Only think that some forty years ago the whole country surrounding this flourishing city was an unbroken wilderness! We must not omit to mention that Professor Johnston's address was received with loud applause by listening thousands; it was a production worthy the high standing of its author, and we hope to transfer it to our pages the earliest opportunity.

#### AGRICULTURAL DISCUSSIONS.

These form an important feature in the proceedings at the annual fairs of the State of New York, which we should like to see adopted at our own. We have now had four annual meetings of the Provincial Association; and though many of the best and most intelligent farmers in Canada have been assembled on these occasions, no public discussions have taken place upon any of the important subjects that invite the attention of the Canadian farmer. The amendment of the present defective statute relating to-agricultural societies, and the government grant; the means that should be adopted for collecting information and statistics upon the agriculture of Canada, and the publication of reports and transactions; the establishment of model farms, and the introduction of agricultural studies into the common schools; the establishment of a chair of agriculture in the Universitythese and similar matters, besides the thousand and one moot points that arise in practical farming, should engage the attention of the enterprising and intelligent farmers that assemble from all parts of the country at these annual gatherings pelled, enterprise stimulated, united action secured. and well-considered plans determined upon and set in motion-all these and many other beneficial results would be speedily brought about by meetings and discussions, properly managed, on these We hope that the Directors of the occasions. Association will see to it, that proper arrangements manufacturer, and the mechanic make, with as little are made for holding such discussions at the next knowledge of their respective occupations, as the farfair, in the Niagara District: suitable subjects should be selected, and some person assigned to introduce them beforehand.

The following report of a discussion at Syracuse, is a sample of those which are held at the New York State fairs. We copy from a Syracuse paper. The report is of course greatly condensed, but the outline will give a tolerable idea of the debate. The subject, we need not say, is a very important oue, and, as our readers are aware, has been brought under public notice here by the editors of this journal on former occasions.

#### MEETING ON THE SUBJECT OF THE ACRICULTURAL SCHOOL.

A conversational meeting, for the discussion of the above subject, was held at the 1st Presbyterian church, last evening.

Mr. Delafield, of Seneca county, on taking the chair, after having stated the object of the meeting, proceeded to remark that if he was not unstaken, about seveneights of the population of this state were agriculturalists, and hence the necessity of such an institution as the one proposed. The subject had already attracted; the attention of the legislators of this state, and a movement had been made in reference to this important mat-He had often asked hunself the question, how it ter. was that the practical farmers had paid so little regard to this subject ? It struck him that they. of all others, needed education-an elementary education in the var-ious branches of knowledge. The farmer needed a knowledge of law to enable him to act in a judicial capacity; a knowledge of medicines, in order to encounter the diseases to which he is subjected while far away from the places where medical skill can be obtained. In short, he needed a general knowledge of the various branches of science. He hoped if there were lawyers in the house, they would not be offended when he said that the farmers could settle their disputes without their aid, and there was no actual necessity for their services. Farmers were too content to let their children receive only the common rudiments of education; they needed something more; they needed a direct knowledge of the matters with which they had to deal. Our schools and colleges instruct their sons in the more abtruse departments of education, but unfortunately led away their minds from the cultivation of the earth, and hence were of little use to the farmer's son. The farmer's son need-ed such an education as would enable him to cultivate the earth intelligently-to know what he does and why he does it to know from facts derived from research, that what he does is right, and not because his father or his neighbors did so before him.

Hon. Samuel Chever, of Saratoga, apologized for not coming prepared to speak, by saying that his friends had taken the liberty of posting him up as one who was to open the discussion in the absence of Mr. Blunt, of N. Y. and this was the first notice he had of the part he was expected to take. He proceeded to remark that education upon any subject presupposed the want of it. He found that this subject of an Agricultural School met with more opposition from farmers than from any other class. Professional and educated men readily yielded assent to it. But, says the farmer " what do we want

now." The fact was, the farmer needed education in his profession just as much as the lawyer and the physician, who were obliged to spend years of time to qualify them for success in their pursuits. The farmer had a mistaken notion that his was a subordinate pursuit. Was it so ? What progress would the merchant, the mer has ordinarily of his? Such a question might startle those who can raise such good crops; but night not the fact of their raising fine crops be perchance because they had hit upon the course which science indicated? What did they know of the nature of the soils they cultivated? What could they tell of the composition of clay, sand or muck ? Science told us that a fertile soil possessed certain elements, and that the observance of one or more of them produced sterility. The farmer in order to re-medy the defect in his soil, tries one after another of the catalogue of ingredients, and perhaps at length gives up his farm, and goes to the west. Another takes the same soil, and by ascertaining what is wanted in it, brings it back to fertility. This was the result of science, which the former occupant did not possess.

It was important to know what elements were contained in the manures applied to the soil. Farmers ought not to expect "to gather grapes of thorns, or figs of thistles."

The subject of draining was another on which the farmer should be enlightened. Draining, to be sure, was not of so much importance in this country as in England and Scotland, and many parts of Germany. With them scarcely a farm but contained some marshy spot where it was needed.

In regard to fencing, the material for the purpose was becoming exhausted, and it was becoming necessary to resort to economy, and to other modes, such as ditching and hedging.

Then in relation to farm stock, who could point out the defects in animals, tell what signs indicated power, endurance, or spright liness ? How often were farmers made a prey to the acts of the horse-dealer ? who made them believe that there was something defective in an animal which he was anxious to purchase. How little did they know of the diseases of the horse, and of the remedies to be administered.

In regard to the soil, chemistry was beginning to teach what materials they had to deal with, and how they were to mix them up. What would we think of a man who should go into a laboratory and mix up promiscuously the various chemical ingredients, in order to see produced certain results ? So m regard to farming, it was necessary to go to work intelligently.

Geology was pointing out the spots where they could expect a good soil; mineralogy was lending its aid. The results of the naturalist were becoming of immense value in ascertaining the habits of the insects that infested vegetation, with a view to arrest their ravages. Farmers needed to know that theirs was not a subordinate calling of the second or third rank. This idea was inherited from their ancestors across the water, where the men who cultivated the soil were hirelings and subordi-nate to the land owners. The farmer's occupation was first of all others, and it was impossible for it to become by education anything else than the highest and most noble of all.

It may be said that it would cost a great deal of money, some \$59,000, to build and endow an institution such as was desired. Was there any reason why farmers, as well as all other classes, should not ask for a pecumary bounty from the State ? The revenues were principally derived from the canal tolls, three-fourths of which came from the transportation of the agricultural products of the farmer, to know about your chemistry and your geology, in and the merchandise received by him in return. The order to raise our corn and potatoes? We know it all amount of canal tolls was about \$3,000,000 annually and the merchandise received by him in return. The All they asked was, to set apart one month's tolls to trinl on four different occasions, and I believe no found this school. Was that too much ? Could legis- individual will be found bold enough to assert that lators refuse this sum to the farmers who were not in the on any one of these occasions it has worked well, habit of asking much for themselves ?

in the discussion, but excused himself on account of fatigue.

Prof. Norton, of Yale College, being called upon, said, that for two or three years, he had been engaged in giving instruction in scientific agriculture, and he had found the great obstacle in the way of improvement in farming. from the fact that the farmers thought they knew as much as was necessary. In the State of Connecticut. three-fourths of the legislators were farmers ; yet it was with the greatest difficulty that a small appropriation could be procured for the diffusion of this branch of knowledge. The fallacy of the argument that farmers knew enough, was shown by the deterioration of farms in many parts of the country. As to any plans, Board of Directors, instead of giving their valuable he was not prepared, nor did he think it proper for him assistance in managing those parts alone of the to recommend any particular one, only he was strongly [ in favor of the general subject of education among farmers.

Mr. Buckland, of Canada, being invited to give his views, said, he concurred in most of the views which had been presented in relation to the connection of a resolution for the purpose of affecting some science with agriculture; but thought that the tendency change in our management. I should be glad to scarcely compatible with ordinary habits of farm busi- have a copy of it; as, in case it should not conness. What was wanted in his opinion, was a such template as great a change as is necessary, I would take the attemption of the scarcely compatible with ordinary habits of the start of the scarcely compatible with ordinary habits of the start of the scarcely compatible with ordinary habits of the start of the scarcely compatible with ordinary habits of the scarcely compatible with ordinary habits of the start of the scarcely compatible with ordinary habits of the start of the scarcely compatible with ordinary habits of the scarcely comp ficient encouragement to really scientific men to induce would take the opportunity of corresponding with them to give their time and services to the subject. An Mr. Marks. education in the science of agriculture might be given in the common schools and higher institutions of learn- valuable paper, and will have it ready for the ing. sufficient for all practical purposes, provided such November number, instruction be practically illustrated by the operations of I remain, a the farm.

The Chairman submitted a few remarks, stating what progress had been made in the district where he resided. mainly through the influence of a small society that was formed some years ago. One man, who at first derided the idea of science being applied to agriculture, at last came to one of the members for information on a particular subject, and generously tendered the individual \$3.

Mr. Allen, of Buffalo, followed with some remarks, which we have not space to give, and offered the follow- in the well-being and welfare of mankind geneing resolution

Resolved .- That this meeting recommend to the next the propriety of making analyses of the following Legislature to pass a law making an appropriation for articles, and publish the RESULTS in the Canadian an Agricultural School.

or two, for the purpose of showing that a knowledge of agricultural science did not tend to create a distaste for manual labor in farming, but on the contrary, he had found upon introducing this branch of study into the institution with which he was connected, that the pupils became more and more anxious, as they pursued their rotten potato to make it sound, and also the constistudies, to follow the occupation of farming.

The meeting was further addressed by Messrs Chever, Buckland and others, and then adjourned to meet on the following evening at the same place, when Professor Mapes of New York, would be present, and submit some remarks upon the subject.

#### MANAGEMENT OF THE PROVINCIAL ASSOCIATION. To the Editors of the Agriculturist.

## Nelson, October 6, 1849.

GENTLEMEN,-I take the earliest opportunity, hoeing and weeding, &c. You have observed since my appointment as president of the Agri- that in land containing considerable marl, and cultural Association of Upper Canada, of addres- being well drained, weeds are not near so numersing you on the system of management adopted by ous as they are where there is a predominance of that association.

Prof. Johnston, of England, was invited to take part or that we can reasonably hope for the introduction of an uniform system of management, until our present system has been entirely changed.

Hitherto the local committees have exercised power which, so far as I know, was never dele-gated to them by the Board of Directors; and as each local committee is of necessity composed of inexperienced men (so far as transacting the business of the society is concerned), it is no wonder that at every succeeding exhibition we have had the blunders of the preceding ones repeated; and so long as the local committees are allowed to assume the legitimate functions of the Board of Directors, instead of giving their valuable business which are of a purely local nature, just so long will we have a repetition of blunders, which have already nearly destroyed the Association.

I was glad to see that Mr. Marks had proposed

I am preparing a letter on the subject, for your

I remain, gentlemen, yours, truly, JOHN WETENHALL.

# SUGGESTIONS FOR ANALYZING, &c. Chatham, Western District,

August 14, 1849.

To the Editors of the Canadian Agriculturist: GENTLEMEN,-As I believe you feel an interest rally, I would beg to submit to your consideration Agriculturist, for the information of all whom it Mr. Evans, of Madison County, desired to say a word may concern, viz. :- To ascertain the potatoe disease, analyze equal given quantities of sound, and also partially decomposed or rotten potatoes ; set the constituents down, in both cases, and see the difference; this will show what is absent in the tuent to prevent the rot when applied. Rust on wheat, sound and unsound straw; smut, sound and unsound grain; different kinds of weeds, mus-

tard, red-root, melons, &c., giving their vulgar name as well as botanical, that farmers may know them at a glance-the latter particularly, with a view of supplying minerals in certain proportions to the soil, so as to promote the growth of large, plump grain, &c., and be too strong for weeds, or a great part of them, thus lessening the labour of vegetable mould and moisture. Also, as a matter The working of this system has now had a fair of still greater importance, analyze human blood,

s 1y at 5 years old, 10, 15, 20 and 25, then 50 or 60, setting down the age and proportions of principles found, opposite the age in each case-that is, of persons in good sound health, and first-rate joyous spirits, at the different ages mentioned; then again at the same periods—5, 10, 15, 20, 25, 50 and 60— the blood of weakly individuals, say labouring under fever, ague, rheumatism, cholera, and other fearful and distressing complaints; set them also down opposite their respective ages-this must be quite true and correct—and then, by compar-ing the proportions of principles found in the blood of sick and healthy persons, you will see what is wanted in the debilitated, unsound or weak blood, to make it good and sound; for just according to the state of the blood, so will the health be: if pare, the health will be good, vigorous and wholesome also. Let the terms used in the explanation of the principles be as plain as possible, so as to be easily understood; and also the grain, vegetables, meat, milk, fruit, &c., containing the greatest amount of good and wholesome principles, and the state in which it ought to be used-as, should flour be bolted very fine, or should not the greater part or whole of the shorts be mixed with the flour, to make the most whole-some or best blood. The blood of different animals deserves enquiry: indeed all grains, flesh, vegetables, fruits—every thing that is used by man and his domestic animals, horses, cattle, sheep, &c.—should be analyzed, to see which is the best adapted to the blood of each; of course the best blood of each must be analyzed also, so that the constituents in the blood of each animal may receive suitable nourishment-for instance, the blood that contains much carbon, will require grain that contains this carbon in the greatest abundance, and the animal will thrive and flourish, or grow better and smarter, the more he gets of it--not too much, however. It would be a treasure for the farmer to know and avail himself of all this !!! and the position which you hold at present points you out as the good instrument. Even your own interest depends on the truth and intelligence of your periodical; for a work of this nature, being cheap and new, and enjoying also as yours does a very wide circulation, will be more eagerly sought after and read with more avidity than books. Do not be afraid of giving the people too much knowledge, for it tends to their virtue and prosperity; knowledge and virtue, joined hand in hand, will make the people happy, or in other words, love each other. I hope you will be able to have it out in the September number, or at least the most important part of it. I have written to the editor of the Genesee Farmer also, to publish an analysis in his paper as above. Which will be the most correct? I enclose you a dollar, for which you will please send me a copy of your journal from the commencement of the year, and oblige

Your humble and obedient servant, MALCOLM WEIR.

[We insert our correspondent's inquiries, and shall be glad to receive any replies from our scientific readers. In case we do not, we will consult the best authorities, and give our correspon- highly prized "Duchess blood" has been for

dent the results of trust-worthy analyses. As to our going into original investigations of some of the most difficult branches of physiology and organic chemistry, we profess ourselves utterly incompetent. Such matters involve considerations belonging to the highest departments of experimental science; even the analysis of a soil (qualitative and quantitative) requires much readiness at manipulation, considerable time, and more patience than many people seem to imagine. The analysis of vegetable and animal products is far more delicate and difficult. We have known from five to ten guineas given to competent chemists in England for a single analysis of inorganic substances. Unless experiments are conducted upon correct principles, and the greatest care used at every stage of the process, the result can only mislead.]

#### DURHAM CATTLE. To the Editors of the Agriculturist.

Woodhill, Canada West, Sep., 1849.

GENTLEMEN,-I take the liberty of soliciting a corner of your journal, to correct (what I conceive to be) an erroneous impression lately made by the publication of an article relating to Improved Short Horn Stock. It appears that Mr. Sherwood of Auburn, N. Y., has lately added to his well known valuable herd, a bull, imported from Mr. Bates of Kirk-leavington, county of York, England. I entirely agree with Mr. Stevens, who purchased this bull for Mr. Sherwood, that, taking into due consideration all the qualities which into due consideration all the qualities which render cattle profitable, there is probably no herd in England which will bear a fair comparison with that of Mr. Bates. This I most readily concede, but I consider the estimate made of Mr. Sher-wood's bull as being rather "broad-cast" sowing, when it is asserted, that "breeders will nowhere else in North America find Mr. Bates's blood in like perfection. If Mr. Stevens means only to express his personal opnion upor Mr. Sherwool's express his personal opinion upon Mr. Sherwood's buil, as a means of obtaining the Duchess blocd through an animal which he considers to be the finest of that tribe in North America, then his opinion will go for its own value, and no more.--If he means to go further than that, I, for one, demur. I knew Mr. Bates for more than 35 demur. I knew Mr. Bates for more than 35 years; I have been acquainted with his stock since 1812. We were ever on terms of the most intimate friendship and correspondence, and I take upon me to assert, without hesitation, that the great and precious feature of his stock, what he always considered his special boast and treasure, was, his possession of the old, pure, Duchess sure, was, nis possession of the old, pure, Duchess blood. To obtain this, he neither spared money nor pains, and I well remember the pride with which he exhibited to me, at Halton Castle, Northumberland, where he then farmed, "Young Duchess," a heifer of a year old, for which he had paid Mr. Colling one hundred and eighty guineas. Now six there is no doubt what was in the the

Now, sir, there is no doubt whatever that this

(see B. Herd Book), was the animal which gave have 12 cwt. off five acres; and I have heard of value to Mr. Bates's herd, along with the Duchess one grower whose crop is totally destroyed. value to Mr. Bates's herd, along with the Duchess one grower whose crop is totally destroyed. blood; and that same tribe of improved short Burning sulphur to windward of the hop-yard, horns may now be had, in the greatest purity and perfection, from Mr. Vail. I hope, sir, that no have been tried, but without effect. one will misunderstand me, or suppose that I Shaking them off, by jarring the poles, and desire for a moment to depreciate Mr. Sherwood's, killing them upon the ground, is the only plan importation. Mr. Sherwood has been long distin-guished for his zeal, skill and success as a breeder of short horns, and (I may add) not more so, than for all the qualities which characterize an how means are not thaving appeared in one season. If means are not he has long been satisfied of the superior qualities discovered of destroying this insect, hop culture of Mr. Bates's blood, and has introduced it into his own herd. I have myself a heifer purchased from him, got by Symmetry, of Mr. Bates's blood, for which I would not accept any ordinary price; and I am well convinced, that the bull which Mr. Datas have new sout to his, with the bull which Mr. Datas have new sout to his, with the bull which Mr. I have the honour to remain, Continuence with the source of the source Bates has now sent to him, will prove an animal of the highest value. All this may be quite true, and yet it may be unfair, and may mislead the public to assert, that from Mr. Sherwood, and from him alone, the Duchess blood can be procured.

'I am aware that these remarks will, by some candid friends, be ascribed to a source not altogether disinterested, and it will be announced, as a sufficient reason for laying them aside, that the writer is known to have partly derived the blood of his own herd from Mr. Vail. Let this go for what it is worth, and I shall content myself with the bull which we have been so fortunate as to procure from Mr. Vail, got by Metcor out of Lady Barrington.

I have the honour to remain, Gentlemen, Yours very truly, ADAM FERGUSSON.

#### INSECTS DESTRUCTIVE TO HOPS. To the Editors of the Agriculturist.

GENTLEMEN,—The valuable hints I have re-ceived from your paper, and the zeal you have evinced in the cause of agriculture, induce me to address you upon a subject of the utmost im-portance to the "hop growers" of this part of kle and knee. Canada, for I feel assured it will meet at your hands with that attention which the graveness of

A few years since, an animal, called here "the measuring caterpillar" (from its striding mode of progress) made its appearance in the early part of July, upon the hons. By also a phonetice. The total hoof and the hair. When the toes turn out the knees hoof and the hair. When the toes turn out the knees hoof and the hair. When the toes turn out the knees hoof and the hair. When the toes turn out the knees hoof and the hair. When the toes turn out the knees hoof and the hair. When the toes turn out the knees hoof and the hair. When the toes turn out the knees hoof and the hair. When the toes turn out the knees hoof and the hair. Breast full; straight on the back; round ribs. proprogress) made its appearance in the early part of Breast full; straight on the back; round ribs, pro-July, upon the hops. By close observation, I jecting out as wide as the hip bones. These are indihave been able to trace this destructive little ani- cations of strength and a good constitution.

years in the possession of Mr. Vail of Troy, and mal to the egg, which is deposited upon the under many valuable animals have been imported by part of the leaf by the miller moth, in the latter that gentleman *direct from Mr. Bates*. Mr. Vail part of June: at a quarter of an inch long it com-knew Mr. Bates well, and I am confident he will mences its destructive peregrinations, and in the knew Mr. Bates well, and 1 an conndent he will intences its destructive peregrinations, and in the readily confirm my assertion, that it was upon the 'course of a few days arrives at its full length of *Duckess* blood Mr. Bates always piqued himself, one inch,—of a pea green colour, with the power and that the introduction of *Belvidere* (a very common to the tribe, of forming a web. For the noble bull) by Mr. Bates into his herd, was more first year or two it did not affec the crop much, to escape the evils of *in and in*, too long continued, but their numbers have lately increased to such a than for any new qualities which he expected degree, that a hop grower, with whom I was that bull to impart. Old *Ketton*, by *Facourite* speaking on the subject, told me he would not see B. Herd Book) was the animal which gave have 12 out of fur across and I have here a low

honourable and an excellent man. I know that having appeared in one season. If means are not

Gentlemen, your obd't servant, WM. MAGRATH. Credit P. O., C. W.

[We shall be obliged if such of our hop growers as have had practical experience in the matter contained in our correspondent's letter, would favour us with the result of their observations,-The caterpillar referred to we have seen on the hop plant in England, but never heard of its doing what it is worth, and I shall content myself with any serious injury-perhaps from the fact of its expressing a hope that every man striving to being unfrequent. The aphie, or "fly," is the improve his stock, may have the like satisfaction, great pest, and it is often destructive to the plan-as my friend, Mr. Wetenhall, and I both enjoy, in tations in England. We will keep this subject in

> MARKS OF A GOOD WORKING OX .--- Mr. Asa G. Sheldon, of Wilmington, who has great experience in cattle,

don, of Wilmington, who has great experience in cattle, particularly in working oxen, and is regarded as the best authority, gives the following:— Long head, broad and oval between the eyes; the eye full, keen and pleasant. Such marks denote ability to receive instruction and a readiness to obey. The short-faced ox starts quick at the whip, and soon for-gets it. The black-eyed ox is inclined to run away. An ox with very large horns near the head is apt to be lazy, and be capnot endure heat well.

lazy, and he cannot endure heat well. Forward legs straight; toes straight forward; hoof broad, not picked; the distance short between the ankle and knee. These properties enable an ox to travel on pavement and hard ground. If the ox toes out, the strain comes on the inside claw, and when travelling on a hard road, he will be lame at the joint between the hoof and the hair. When the toes turn out the knees

# horticulture.

SELECTION OF GOOD FRUITS.

We extract the following interesting remarks on fruit New-England cultivator, Samuel Walker, Esq., of Rox- ported from Europe. bury, now President of the Massachusetts Horticultural Society, from the Report of the American Institute.-Horli ulturist.

with the best European varieties, it is not my intention do before I received Mr. Bridgman's able report. to make any invidious comparison; on trial-the truth, the best judges-the cultivators-simply stating that I are submitted : shall select the best varieties from the catalogues of the, New and the Old World.

APPLES.

European Varieties.

1. Early Red Margaret, 2. Red Astrachan,

Ross Nonpareil,

Dutch Mignonne,

Ribston Pippin, Cornish Gillittower,

10. English Golden Russet.

9. Herefordshire Pearmain,

3. Sops of Wine,

4. Gravenstein,

- American Varieties. Early Harvest
- ٠. Williams' Apple,
- 3. Benoni,
- Parter. 4.
- 5. Ponnne de Neige,
- Baldwin,
   Yellow Belle Fleur,
- 8. Newtown Pippin (green), 9. Rhode Island Greening,
- 10. American Golden Russet,

I will not carry out the comparisons further, but submit a list of American varieties. all of which are deserving of extensive cultivation, viz. :-

5

6.

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Large Yellow Bough, Chandler, Fall Harvey, Jonathan. Minister. Hubbardston. Nonsuch. Rambo. River, one-fourth larger, and equal or superior in flavor, more

PE/	urs.
American Varieties.	European Varieties,
1. Blosdgood,	1. Citron. des Carmes,
2. Dearborn's Scedling,	2. Passans du Portugal,
3. Pratt.	3. Williams* Bonchretien,
4. Knight's Seedling,	4. Flemish Beauty,
5. Tyson,	5. Rostiezer
6. Seckel.	6. Fondante d'Automne,
7. Cushing.	7. Bezi de la Motte,
8. Heathcot,	8. Dovenne Blanc.
9. Andrews,	9. Louise Bonne de Jersey,
10. Buffum.	10. Doyenne Gris,
11. Dix,	11. Beurre Diel,
12. Lawrence,	12. Duchesse d'Angouleme,
13. Columbia,	13. Glout Morceau.
	I will add a list of Europear

varieties of great merit, viz. :---

Louise, Winter Nelis, Paradise d'Automne. Passe Col- mer, or early in autumn. If. at this season, the weather mar, St. C' islain, Vicar of Winkfield, Urbaniste, and should prove quite dry, a regular and abundant watering

PLUMS.		
American Varieties.	European Varieties.	
1. Jefferson,	1. Green Gage,	
2. Columbia,	2. Purple Gage,	
3. Washington.	3. Coo's Golden Drop.	

To this lot of plums, I will add the following American varieties, as worthy of a place in every good collection. viz. :-

Purple Favorite, Huling's Superb, Imperial Gage, Lawrence Favorite, Bleecker's Gage, and Bingham.

CHERRES. — The best varieties of American and European cherries are very dissimilar. I shall therefore submit a list of such varieties as I consider of the best quality. viz. :-

American varieties. - Sparhawk's Honey, Downer's Late. Sweet Montmorency, Manning's Mottled, Downing's Red Chcek.

European varieties .- Black Eagle, Black Heart, Black Tartarian, Downton, Knight's Early Black, Bigarreau, short time plants vegetated from it.

Bigarreau Holland, Elton, Florence, Belle de Choisy, May Duke, and the Late Duke.

By the foregoing statement, it will be perceived that among the well established apples and plums in this country, a majority are the products of America. Of culture and selection of varieties, by that experienced pears and cherries, the greater number have been im-

I will now proceed to the second part of my subject, and notwithstanding my esteemen friend, Thomas Bridgman, Esq., has with ability and good judgment. In submitting the following list of the best American brought the subject of seedlings under the notice of the varieties of apples, pears and plums, in juxtaposition managers, yet I shall not retrain to state all I intended to

I am aware when a word of caution is to be spoken, the whole truth, will be amply sufficient for any pur-lor an error pointed out, that it should be done with canpose. I shall therefore leave the result to the hands of dor and kindness; in that spirit the following remarks

> SEEDLING FRUITS .- My object is to point out an error, may I not rather say, a weakness, on the part of some cultivators of fruits, to overrate their own productions, more especially so when they raise a seedling apple. pear. plum. peach or cherry. having any preten-If their production is of the best quality, sion to merit. and possesses but a single point of superiority. say only a shade of color. or a slight increase of size, in addition to the good qualities of the most choice variety of that class of fruit in the present catalogues. that alone will commend it to other persons, and they will mete out its praise in due season.

No seedling should be recommended for extensive cultivation until it shall have been proved to be suprior in some respects to the variety it most resembles. For instance, if any person should raise a seedling plum St. Lawrence (Corse's). Northern Spy, Esopus Spitzen- beautiful in its appearance, and more productive than burgh, Summer Queen, and Ladies' Sweeting. the Green Gage, then the new variety would soon find its way into every good collection of plums. The same remarks will apply to the Newtown Pippin apple. The person who shall be so fortunate as to raise a seedling apple of equal flavor, better color, and a tree more thifty and productive than the Green Newtown Pippin, will have accomplished something worthy of record and a name. But cultivators, like young fond mothers, are apt to consider their production to be a "non-such;" time, alas! often convinces them of their mistake; and when too late, they find they have only deceived themselves .--Albany Cultivator.

PLANTING STRAWBERRIES .- As a general rule, the spring of the year has been found much the best season Beurre d'Aremberg. Beurre d'Anjou. Beurre Bose. for planting out beds of the strawberry. Bu' it often Eyewood. Henry IV., Van Mons Leon Le Clere, Marie becomes necessary to perform the operation during sum-Eclasserie. For baking—Belmont, Black Worcester, for several days does not always prevent the loss of a Catillac, and Uvedale's St. Germain. difficulty, the writer has adopted the following very simple treatment, which has been quite successful even at midsummer, and in the midst of the recent extraordinary drouth. Nearly all the leaves are pinched off from the plants, except the central and half developed ones; the roots are dipped in a vessel of soft mud, giving them a thick coating; when set out, the earth is well settled about them by means of a copious watering; and then about two inches of rotted manure spread upon the surface. This will keep the soil sufficiently moist with one daily watering, if the weather be very dry, and much less frequently if it be moist.

> DIFFUSION OF SEEDS .- In horing for water at a spot near Kingston-on-Thames, some earth was brought up from a depth of three hundred and sixty fect. This was carefully covered with a hand-glass, to prevent the possibility of the seeds being deposited on it, yet in a

#### SIGNS OF THE VIGOR, MATURITY, AND DECAY IN charged with the horrible murders related of that poison? TREES.

shoots strong and long ; the leaves green, vigorous, and the accursed use to which this tree is turned which he thick, principally at the summit, and fathing late in will tremblingly pour into the car. In the ordeal of the there appear smaller divisions, which follow from below concluded, the proof of innocence or guilt is to make the dication that the tree is very vigorous, and rapidly in-tof the priests. If his stomach is in a condition to reject the tree. Finally, it is a sign of vigor when branches istronger digestion, his stomach retaining the deadly sub-are seen at the summit of the tree, rising above the istance, the demonstration of his guilt is complete, and others, and being much longer; but it is to be observed, the convulsive death-struggles of the misetable man that all trees with round heads do not throw out branches conclude the evidence, to the satisfaction of the assimiwith equal force.

Signs which indicate that the tree is mature.-Generally, and the leaves are put forth only in the spring, and be- whose light green bark and delicate foliage make it concome yellow in the autumn before those of vigorous trees, and at this time the lower leaves are greener than The specimen is from four to five feet high, the natural the upper. The branches incline towards the horizon. and form angles sometimes of sixty or seventy degrees. These apparent signs, and the thinness of the layer deposited by the sap, indicate that the tree makes but small additions to itself, and now it should be cut The nature of the soil should be examined, as down. well as the kind of tree, to enable a judgment whether the tree should be left to increase still further, or whether it will be more proper to fell it. An exact age the flower harvest is not so early by several weeks as cannot be assigned for each species; but it has been ob- in the upper districts of that country, the practice of served that an elm, situated in an insulated plantation, may be felled with advantage, when between seventy

and eighty years of age. Signs of decay in a Tree.—When a tree becomes crowned. (that is. when the upper branches die). it infallibly indicates, especially for isolated trees, that the central wood is undergoing alteration, and the tree passing to decay. When the bark separates from the wood. or when it is divided by separations which pass across it. the tree is in a considerable state of degradation. When the bark is loaded with moss. lichens, or fungi, or is having culled the perfumes of the orange flowers of the marked with black or red spots, these signs of alteration in the bark justify the suspicions of alteration in the of the Arabian jessamine, and a variety of flowers, are wood within. When sap is seen to flow from clefts in brought back, about the beginning of February. to the the bark, it is a sign that the tree will soon die. As to places from which they have been carried. wounds or gutterings, these defects may arise from local ductiveness of the flowers at each respective stage is causes, and are not necessarily the results of old age.—) ascertained by the gradual descent of the boats in the Loudon's Magazine.

sin, where the thermometer not unfrequently sinks to  $15^{\circ}$  or 20° below zero, and where the fertility of the soil induces a very rapid growth in summer, the tenderer caged and fed much on hemp-seed, is particularly liable fruit trees are often severely injured in winter. A cor- to become black. Many years ago, at Ederder y. near respondent of the Prairie Farmer states that sweet ap- Belfast, where a pair of bullfinches had been for some ples are, for the most part, more hardy than acid ones, time kept, the male died, and the f-male, whose grief and better adapted to very severe climates. Out of one for his loss was very evident, soon afterwards monited. hundred and fifty varieties, twenty-two were sweet ap- and assumed a full garb of black. Such hoing considered ples; of the latter, eleven proved themselves more hardy | equivalent to the widow's " weeds," was looked upon as than any other eleven in the whole list, and only three | almost supernatural; and more particularly so when, of the sweet apples appeared to be tender.

THE POISON PLANTS .- " Ah, well may a shudder go through the frame as we hear the name of the next, the Tanghin, or Poison-tree of Madagascar! 'Can such a fair young tree,' we are tempted to exclaim, ' be govern others,

Surely no tale of death is told by these green leaves and Signs announcing the Vigor of a Tree.—The branches, not unattractive aspect? Go to the benighted islander, especially towards the top, are vigorous; the annual and pointing to its glossy foliage, listen to the recit of of unces, principally at the summit, and failing late in our densities point into the car. In the order of the autumn; the bark is clear, fine, united, and nearly of the tanglin a great assembly is summoned to witness the same color from the foot to the large branches. If at trial of an unfortunate wretch, accused, justly or un-the bottom of the veins, or divisions of the thick bark i justly of errme. The accused heard, the mock trial upwards, in the direction of the fibres and live bark accused swallow a nut of the tanghin tree, which is be observed at the bottom of these divisions, it is an in- managed by the direction and under the superintendence creasing in size. If some of the lower branches, stilled this hightful poison, he is pronounced in orent, and is by others, are yellow, languishing, and even dead, this is instantly released to receive the congratulation of his an accidental effect, and is no proof of the languor of triends on his fortunate escape. But it he be a man of bled multitude. It is a mournful truth, that the issue of the taughin ordeal is rather an inclination of the feeling the head of the tree is rounded; the shoots diminish m of the priests towards the accused than of his in-scence length each year, and the farthest shoots add to the length of the branches only by the length of the bud; Well known to the wandering Indian is the shrufs, of the priests towards the accused than of his incocence spicuous in attractiveness even here-the Madioc-plant. stature being eight feet ; and little could the ignorant spectator imagine, from the innocence and luxuriance of its aspect, that in its vessels run a deadly poison, and in its cells lay locked at the same time the wholesome and excellent food we call cassava !"-Wanderings through the Conservatories at Kew.

FLOATING BEE-HOUSES .- In Lower Egypt, where transportation is carried on to a considerable extent. About the end of October, the hives, after being collected together from the different villages, and conveyed up the Nile, marked and numbered by the individuals to whom they belong, are heaped pyramidically upon the boats prepared to receive them, which, floating down the river, and stopping at certain stages of their passage, remain there a longer or shorter time, according to the produce which is afforded by the surrounding country. After travelling three months in this manner, the bees Said, the essence of roses of the Facium, the treasures The prowater, and which is probably noted by a scale of measurement. This industry produces for the Egyptians HARDINESS OF SWEET APPLE TREES .- In Wiscon- delicious honey and abundance of beeswax .- Dr. Beven.

> THE BULLFINCH'S WEEDS .- The bullfinch, when after a year of mourning, she, at moulting time, threw them partially off. and exhibited some white feathers in her wings .- Thompson's Natural History of Ireland.

> It is more difficult to prevent being governed, than to

# Mechanics and General Science.

# IMPORTANCE OF SCIENTIFIC KNOWLEDGE TO PRAC-SCIENTIFIC MEN.

#### Continued.

Again-scientific knowledge amongst the la- cation as the principles of these Sciences. bouring classes would elevate their calling, and whole process of vegetation, the germination induce many mistaken parents to educate their of the seed, the growth of the plant, the composisons for mechanics, instead of thrusting them into, tion of the seed and the plant, the soil and manures,

York. The remaining members of these profes- grown for a century on the same fields. Why this? sions are, of course, in the receipt of very large Again, crops are not always abundant in propor-incomes. This may be regarded as a fair picture tion to the quanity of manure, even though it be of the reality in all overgrown cities; in smaller of the best kind and the culture the most careful, towns and country places, there would not be so during a season the most favourable. Fields great a disproportion of professional men.

A change, however, is taking place in public are not unsuited for another. opinion. On this subject the New York Spectator says: — "In the United States, a revolution is farmer, which thwart his best calculations. But proceeding with respect to this matter, which will they are all subject to fixed and irrevocable laws; proceeding with respect to his hard by the fact of the angle of the an quietly, but surely tend to beneficial results. The and were the practical agriculturists familiar with supply a large portion of the State and Federal equally useless to them, instead of studying che-

I would most earnestly recommend the sons chemistry. of farmers who intend to follow the pursuits of In every department of life, even the most

Philosophy. Farmer's sons in Canada generally devote the winter to study either at the Common School in their own neighbourhood, or at some PORTANCE OF SCIENTIFIC KNOWLEDGE TO PRAC- public Seminary. No subject would open such a THAL MLN, AND OF PRACTICAL KNOWLEDGE TO field for useful or interesting observation to the farmer as Chemistry and Natural Philosophy; none certainly would call for so frequent appli-The That the legal and medical professions are too sours for mechanics, instead of thrusting them into the over crowded professions. That the legal and medical professions are too much crowded needs no demonstration; the proof is before every body's face. Too many practition-ers in both law and medicine, are without proc-what rotation in crops, if any? A few facts will tice. A few the more fortunate, perhaps the older, show the importance of a better knowledge of the or more learned, or best known, enjoy most of source. It is estimated that in New York there source of a competence unless derived from some other source. It is estimated that in New York there bases are not more than £100; another 150 whose receipts are not more than £100; another 150 whose receipts are not more than £100; another 150 whose receipts of ±30; and still another 150 whose re-centers and source, but £60; another 150 with particular kind of straw, is very different from cerupts of ±30; and still another 150 whose re-stimate may be drawn in too dark colours, but tries to be absolutely necessary; but in many of 1 have taken it from a work published in New York. The remaining members of these profeswhich have become unfitted for one kind of grain

Legislature.<sup>27</sup> Such is the language of one of the first papers of New York. Similar sentiments have been expressed in other and influential parts—and for-tunate would it be for hundreds of young men of burden themselves with a Latin dictionary and the present day, if they would follow such advice the present day, if they would follow such advice. Horace, when they need the axe, the lever, or the

their fathers, to study Chemistry and Natural humble, such knowledge would be of incalculable

fore comfortable cottager, for knowing something thorn and the thong, to his own limbs; the other of the nature of soils and manures, which chemis- is clothed with the most exquisite skiil, the worktry teaches,-and something of the habits of ani- manship of many artists. The one records and mals and the qualities and growth of plants, which transmits his thoughts by the knots of the wamhe learns from natural history and chemistry toge- pum; the other converts the dirty rag into beanther. nic nor a peasant, but only having a pot to boil, and with lightning speed upon it, and hands them he is sure to learn from science lessons which down to coming ages. will enable him to cook his morsel better, save his fuel, and both vary his dish and improve it. The art of good and cheap cooking is intimately connected with the principles of chemical philosophy, and has received much, and will receive lized, than there might and may be between the more, improvement from their application." The civilized of the present and no distant day. engaged in them would be more expeditions, safer and wiser operators, by such scientific knowledge as would be applicable to their operations.

condition of man, and how much higher might it apply it to the plough ? why may we not sow, and science have wrought, even in the ordinary avocations of life. The one lives upon the fruits of the chase, obtained by physical force; the other, confident in his knowledge of the laws of nature, in seed time and harvest, sows and reaps in abundance. The one lodges in his rude wigwam, or cave, or crawls into a hollow log; the other resides "the proud lord of his gorgeous mansion" or neat cottage, erected and furnished by the handy workmanship of a hundred artists, his table spread with the productions of all climes, borne across the mighty deep, and over continents, by the power of wind and steam. The bow and arrow and stone tomahawk are the rude implements of the chase and of warfare of the one; the other, skilful in the arts of peace as in those of war, has converted one portion of the earth, upon which he treads, into the musket, the cannon, and the glittering steel, and another into a combustible elastic powder, which, lighted by a spark, hurls the destructive thunderbolt. The one moves timidly along the beach in his bark canoe, propelled by his own feeble hand; the other launches fearlessly upon the broad ocean, in his proud man-of-war, driven by the winds of heaven, or the vapour of the very element through which he moves, neither tide nor tempest impeding his course. Guided by his faithful magnet, which neither slumbers nor sleeps, he safely traverses the trackless deep, through storms and midnight darkness. If he meets a homeward bound vessel upon the ocean, he tells with unerring accuracy his position on the globe, by a small glass formed | working model of an implement, manufactured under his of the sand which we carelessly tread beneath our direction, by our able agricultural engineer, Mr. Slight,

benefit to society, for upon their skilful services feet, and, with a few scratches of a pen, informs depend the lives and happiness of the rest of his distant wife and children and friends of the mankind. "The farm servant, or daily labourer," very spot upon which at that hour he floats. The says Lord Brougham, "whether in his master's one moves snail-like over the land, drawn by his employ, or tending the concerns of his own cot-tage, must derive great practical benefit, must be pest, in his steam-driven car. The one strips the both a better servant and a more thrifty and there- covering from the wild beast, and sews it with the In truth, though a man is neither a mecha- tiful paper, and stamps his thoughts imperishably

But why multiply instances. There is not more difference between the savage and civilized, than between the savage and the beast; and there is not more difference between the savage and eiviart of making and stirring a fire, of washing and any one suppose that we have attained perfection bleaching, of eradicating stains from cloth, are all in the arts of life? Are there no more improve-conducted on philosophical principles; and those ments to be made? Can we add nothing to what our ancestors have left us ? Have they ascended all heights, descended all depths, and explored all space? Cannot we, by standing on the heads of our forefathers, see farther than they? If they How greatly has such knowledge elevated the have applied steam to the car, why may we not elevate him. Compare the savage, as he roams and reap and thrash, by steam; nay, and clear in his native state through the interminable forests away the forest by the same power? If they of our vast continent, with the descendants of the have applied steam to saw and plane, and fit the European living by his side; and behold what art board for the building, why may we not apply it to quarry and cut the stone, to make and lay the brick, and plaster the wall? If they have applied steam to spinning and weaving the delicate fibre, why cannot we cut and sew the coat and shoe, the cloak and the gown, by the same process? Who can doubt vast improvements in all the arts of life, when he sees the success of machinery m forming the delicate pin and watch, the exquisite thread of the silk, the cotton, the linen, and the wool; and the weaving of every pattern, performed with more skill than by the mechanism of the hand? Who can suppose that we have reached the goal of human perfection, and crowded all the powers of nature into the service of man, when he sees him commanding the sun-beam to delineate the "human countenance divine," the lightnings of heaven to record his thoughts, the invisible galvanism to illumine his dwellings, the opaque flinty rock and drifting sand turned into transparent glass, calling down the stars of heaven and magnifying the teaming millions of a drop of water. (To be continued.)

> USEFUL AND INGENIOUS IMPLEMENT FOR MANUAL LABOUR.-It must have struck many of our practical readers, witnessing the rapidity with which mechanical operations are performed upon the soil by means of the horse hoe, the moulding plough, and other machinery, that hand labour, armed with few implements, anything, if at all, in advance of the old Dutch hoe, has been lett far behind: Within the last few days, however, our attention has been called by the inventor, C. K. Sive-wright, Esq., of Cargilfield, Trinity, near this city, to a

has at length been placed upon a par with horse power tions where it is inconvenient, inexpedient, or even when employed in field labour. The implement thus impossible to introduce horse labour. Mr. Sivewright devised by Mr. Sivew, ght was originally a grubber of with the utmost liberality, has authorised us to state five hat hors, arranged triangularly in the ordinary man-that he is anxious only for the adoption of it, wherever ner, and in this state it was found to perform with the it may be found useful, and, in fact, makes a present o, greatest facility all the labour usually effected by means the invention to the public ; nay, in order to facilitate of the Detch hoe in cleaning the ground, stirring the this purpose, he will be happy to send round his garearth between rows and drills, extirpaing weeds, and dener with any one desirous of witnessing the work working and pulverizing the soil to the depth of four which the implement has performed; and the implement inches; the flat hoes being so arranged, as, at each itself is on view at Mr. Slight's, where its advantages entrance, to work a breadth of 17 mches, which, however, might, by means of a contracting and expanding | at a single glauce.-Scottish Agricultural Journal. transverse bar at the base of the triangle, be reduced to thirteen mehes for going between drills. Mr. Sivewright found, that with this implement he could completely prepare his garden ground at Gargillield, extending great advantage which had been derived by farmers in two acres, for crops, in many instances, without resorting Scotland from the analyses of portable manures, upon to the use of any other means whatever; and that, too, which, he estimated, nearly one-half of the green crop with the greatest saving of labour, as it simply required of that country is dependent. The amount of guano, with the greatest saving or about, as it singly explored of that country is dependent. The analysis of 220,000 so with great rapidity. We ought to mention, however, tons. Great adulteration had been practised with that Mr. Sitewright's is a fine light sandy soil, in a guano; and bone-dust had been mixed with ground that Mr. Sitewright's is a fine light sandy soil. beautiful state of pulverization, and presenting less than oyster-shells. Various manufactured manures, of the usual obstruction to the working of machinery. But we constituents of which the farmer could not be acquaint-have no subt that in any garden soil whitever, very ed, were offered for sale. In illustration he related the little nor, afficulty would be presented to the action of following: Some years ago I joined with two or three this particular hand machine. Being composed entirely farmers in the purchase of some tons of nitrate of soda. it to be very easily worked; and being, moreover, sup-ported by a fore-wheel, as in some of Ransomes' cele-bated ploughs, figured in this day's Journal, the shifting of this wheel regulates the doubt to which the the of this wheel regulates the depth to which the hoes and tines may be entered in the soil ; and once entered, they would undoubtedly cut and loosen the stiffest soil, pulled the ship. The adulteration was detected, and immediby a single laborrer. The inventor having accomplished the ship. The adultiviation was detected, and minical-this object, was not satisfied, however, until he had suc- account the farmers - 1 once purchased a quantity of this object, was not satisfied, however, until he had suc-ceeded in converting his hand-grubber, by the simple addition of double mould boards (removing four of the bird time) into an effective effective heat for an analysis of it, but the sample sent to han had bird time) into an effective effective heat for an analysis of it, but the sample sent to han had hind tines). into an effective drill-plough, both for raising been very different from the stock. I found upon taking ridges and earthing or monkling up potatoes, turnips, delivery that all was not right. I then had a sample all and plants growing in drills. The fore-time being left from the stock analysed, and had no difficulty in procurattached to the machine as a cutter, the double mould- ing an abatement of 10 per cent. from difference of boards are joined on to the sides by a hinge passing in value. I cannot conceive how any agriculturist who front, and the earth thrown up is moulded gently down expends his hundreds a-year up in portable manures is upon the ridge by means of a comparatively trifling justified in applying them before being tested, and would upon the ridge by means of a comparativery triang (pastfied in applying them before being as tea, and woard weight hooked on to the back bar of the implement, at the centre. As the implement is drawn along the drill, the tunned-up earth, therefore, passes under the curves of the monold boards, and is beautifully, smoothly, but lightly pressed down upon the sides of the opposite drills, without choking up the lower leaves of the growing product for, without a knowledge of the nature and without choking up the lower leaves of the growing plant, as is too frequently the case with the drill plough. The weight at first attached to the implement, in order to mould down the earth upon the drills, had been twenty-and extensive processes incident to his daily occupation one pounds; but this was found to be unnecessarily must be a matter of mere chance-thus contributing large, and to offer considerable impediment to the labour; more than any thing else to the precariousness of the though still, a good workman could effect a great deal in profits mone which his prosperity depends. I may be a light soil, even with this. A weight of seven pounds, told this is a togent's due to the pre-dimension of the however, has been found by Mr. Sivewright perfectly adequate; and we never say better or more systematically formed drills than he has thrown up in a half-acre plot of potatoes by merus of this implement. The saving of labour is such, that a piece of gaiden ground, which a lof a crop is the consequence, is not the landlord's rent man was formerly five days in hoeing, has been worked by one man, with the machine, in one day. For instance, particle manures, now so important an element in good the had-acte plot in question could be earthed up at the had-acte plot in question could be earthed up at the harming, and for which I would say a chemist's services rate of ordinary labour of which this machine admits, in six hours, an able-bodied labourer, or indeed a lad, could therefore accomplish, single-handed, a whole acre in a day of twelve hours. The simplicity of construction. and necessary cheapness of these machines (for we have no doubt Mr. Slight could turn them out at a most rea- now used in the world. Of these 937 are Asiatie, 587 sonable price). commend them very strengly to market- | European, 276 African, and 1,624 American, languages gardeners, cottagers, small farmers, nursery grounds, and dialects.

of Leith Walk, whereby, cotteris paribus, manual labour gentlemen's and family gardens—in short, in all situawe are sure, may be ascertained by any practical person

> ANALYSES OF MANURES.-At a late meeting of the Highland Agricultural Society. Mr. Finne spoke of the I heard of a cargo shipped to a party in London; a chemist was ordered to examine it before taking it from and extensive processes incident to his daily occupation told tins is a tenant's question, and let him look after his own interest and he will fare the better; but I hold whatever is necessary for the tenant cannot be dispensed with by the landlotd; and if from not having a ready and cheap way of having his manures analysed, the loss endangered ? But I would respectfully submit that these farming, and for which I would say a chemist's services are required, leaving every other consideration, have done much already for the proprietors of land."

### Domestic and Miscellaneous.

FEVER MAKING AND GOLD WASTING .- As nearly as we can calculate, we produce in London, by our present arrangement, 5,000 cases of malignant fever annually, at an average cost of 100% per case, though the figures might be run up considerably higher by including in the estimate certain collateral results. is difficult, or course, to be precise in this item of the account, but almost every conclusion tends to prove that the Thames is the chief delinquent in all serious infringements of sanitary rules. When we come to the other side of the question, the results are more exactly ascertainable. The unnatural uses of the river are indistinetly recorded, but its natural uses are computable to a fraction. As a general rule, it may be said, that the annual value of the sewcrage water of a large town is equivalent to a poll-tax of  $1\ell_{\rm p}$  per head. This estimate has been even run up to 17, 17s., but the more moderate figures would be abundantly large for our purpose. Dr. Arnott, in his Report up on popular Fevers in Edinburgh and Glasgow, says that the drainage now poured into the Thames, estimated by the effects actually produced in the neighbourhood of Edinburgh, would exceed in value 500.000% a-year ; and he sagaciously proceeds to inquire why, if clean water can be pumped into London from twenty miles distance, four water may not be pumped out of it by similar machinery ? We never, it is said. know the value of a blessing till we lose it, but here are we losing daily one of the most precious treasures of an agricultural community with no idea of its value at all. If we are to believe half the figures now before us, " fluid town manure" is a commodity infinitely more valuable than lapis lazuli or platina; in fact, if the true philosopher's stone exists at all, it must be in some concentrated form of this neglected substance. Its collection and preservation would " render us wholly independent of all foreign manures or guano." and would disengage ships enough to have influenced the debate on the navigation laws. It would " clothe the whole Island with verdure, and endue it with inexhaustibe fertility. When we come to details, the allegations are still more astounding. Carrots a foot in diameter, cneumbers two feet in length, pines of an " unusually deep and healthy complexion." and peaches as large as cauliflowers, are among the ready creations of this powerful agent. As to pasture lands, the results are miraculous. On Sir Robert Peel's own model manor at Drayton, it was plainly and credibly shown to the assembled agriculturists that they might, by the aid of this manure raise tons upon tons of milk-giving, fat-producing, muscle-making grass, six times a-ycar!"- Times.

ECONOMY OF FARMING .- In every department of industry, except that of the farmer, special efforts are made to cheapen the expense of producing articles of manufacture. This has resulted in diminishing also the price at which articles are sold, though the profits to the manufacturer, from the extensive sale of his articles. are larger than formerly. Why, then, may it not with propriety be asked, does the farmer in most instances continue in the beaten track of olden time, instead of availing himself of the facilities which have been furnished him for cheapening the cultivation of his farm ? How many farmers content themselves with a preparation for a single crop. instead of adopting a system of manurng that will, by a proper rotation, be available for a succession of crops. How little attention is given, after all, to systems which have been adopted, by which the products of many farmers have been largely increased. and the expenses of cultivation, by the use of improved implements and the right use of manures, have been very materially lessened.

Now it must be evident that any farmer who does

not avail himself of the means within his reach, and thus economize the expenses of his farm, is pursuing a course that must result in great loss, and in permanent injury. It may be said, and doubtless truly, that this deficiency arises from want of information. But are not agricultural journals published at such rates as to bring not only one, but several within the means of every farmer? and can it be excusable in a farmer to make his ignorance his apology, when the necessary means of information are placed within his reach ? Our farmers read far too little of what is going on in the world around In the pages of our agricultural journals, in the them. proceedings of our agricultural societies, information is afforded that would enable one of these farmers greatly to increase his income, whilst at the same time his farm would be rising in value and increasing in fertility. Let me then urge upon the farmers of our country to pationize liberally the agricultural press. Give to their columns the results of experience on their every tarmadd to the usefulness of these works by contributing the results of their observations-and thus make these papers what the editors desire them to be, the repository of the experience of practical farmers. Were this done. I doubt not economy in the management of the farm would prevail every where, as it now does in comparatively few localities.

Much might be accomplished toward attaining the object suggested, economy, if the farmer should become as systematic in his accounts with his farm as he is with individuals. I am pleased to learn that many of our farmers are adopting this system in their operation. Not long since I was permitted to look at a farmer's account for the year; and I found a statement, with all the necessary facts to substantiate it, of the expense of all his crops—that is, what each had cost him per bushel. Thus, wheat 38 cents, oats 13, barley 29, beans 37, &c. Now who cannot see that this farmer can at once determine whether the course he is pursuing is the one best for his interest, or whether a change is necessary ? and, if so, he knows where to make it.—Genesce Farmer.

DISTRIBUTOR FOR LIQUID MANURE .-- While examining the above implement and its performances at the residence of the above gentleman, we noticed an extremely neat distributor for liquid manure, which merits general adoption, as being comprised in an ordinary wheelbarrow, in which is placed a cylinder. apparently of sheet-iron, with a stramer at top, through which the liquid manure is passed, and a pipe and valve at bottom, communicating with a perforated copper tube, hooked up transversely to the stilts of the barrow. The barrow being pushed along, the person in charge of it, by means of the valve, may thus distribute the liquid manure in such quantities, and at such times and places, as he deems proper, without stopping the barrow, as an iron rod attached to the handle, and connected with the valve, enables him to open and shut it at pleasure.—1b.

TRANQUILITY.—Tranquility is the wish of all ;—the good, while pursuing the track of virtue—the great, while pursuing the star of glory—and the httle, while creeping in the sties of dissipation, sigh for tranquility, and make it the great object which they ultimately hope to attain.

How anxiously does the sailor, on the high and giddy mast, when on tempestuous seas, cast his eyes over the foaming billows and anticipate the calm security he hopes to enjoy when he reaches the long wished-for shore! Even kings grow weary of their splendid slavery, and nobles sicken under increasing dignities. All in fact, feel less delight in the actual enjoyment of worldly pursuits, however great and honourable they may be, than in the idea of their being able to relinquish them and retire to

"-Some calm, sequestered spot, The world forgetting-by the world forgot"

ten on this subject, the sprouting being a great annoyance. The same laws govern all timber, but some are more susceptible than others. Where tenacity of life is feeble, a comparative slight cause will produce death. The leaves are the respirative signt cause will plotted death. The leaves are the respiratory organs, or breathing ap-paratus, of plants, and hence, deprive a plant of these, and the health will be greatly impaired; if the plant be tender and the deprivation be persevered in, death will follow. Several years since I selected the red raspberry to make experiments on. This is a very hardy plant. Selected built wather terms to make experiments on. This is a very hardy plant. I selected healthy stems. When the leaves had reached their maturity, before the peticles, or leaf stalks, became woody, I carefully picked them without inflicting any further injury on the plants. Part of the plants never sent out another crop of leaves, and those that did, only furnished a scanty crop of an indifferent quality. These were removed as before, and another fraction, larger than before, failed me. The rest gave a miserable crop of straggling leaves; these were plucked and all the plants died. The roots were left undisturbed, the naked stems uncut till another season, to see if resurrection awaited them; but the work of death was complete. The same experiment, with equal success, has been tried on shrubs and trees. Hence, the atility of sheep in the destruction of briers and bushes. In cutting, cut them when the leaf is mature; a few may sprout, cut these when full leaved. The repetition will be seldom.

THE CANADA GOOSE.—The Canadian, or American wild goose, (Anser canadensis,) and the Chinese goose, (A. cygnoides,) occupy, as a writer observes, " a sort of debateable ground," so that naturalists have been in doubt as to which family they should be referred; and hence some have applied to them the name of swangeese.

The Canadian goose is extensively known. It is a migratory bird, and in its semi-annual journeys, traverses the nothern part of the continent almost from the equator to the pole; and there are but few of the inhabitants of this country that are not familiar with its shrill and animating cry. Its autuannal flight lasts from the middle of August to the middle of October, and the vernal flight from the middle of April to the middle of May. Various stops are made, however, at convenient points, between the winter and summer localities.

It breeds in its wild state only at the north. Its fa-vorite resort is the coast of Labrador, and the region about Hudson's Bay; though Hearne speaks of having seen great numbers within the Arctic circle, pushing their way still northward.

To the inhabitants of the regions where it breeds, the bird is regarded as an important source of subsistence. Its arrival in spring is anxiously looked for, and the Indrans denominate the month the goose moon. It is said that the carcasses of these birds are dealt out as rations to the men employed by the Hudson's Bay Company. "One goose, which when fut weighs about nine pounds, is the daily ration to one of the Company's servants during the season, and is reckoned equivalent to two snowgeese. (.1. hyperborea,) or three ducks, or eight pounds of buffalo and moose meat, or two pounds of pennnican, or a pint of naize and four ounces of suet." [Richardson.] Those which are killed after the weather becomes cool in the fall, are frozen and kept in the feathers for a winter stock of provisions.

Richardson describes the habits of these geese in his Fauna Borcali-Americana, as follows :

" About three weeks after their first appearance, the Canada geese disperse in pairs through the country, hetween the 50th and 67th parallels, to breed, retiring at the same time from the shores of Hudson's Bay. In July, after the young birds are hatched, the parents moult, and vast numbers are killed in the rivers and grass lands .- Genesee Farmer.

TIME FOR CUTTING BUSHES.-Much has been writ- lakes, when from the loss of their quill-feathers, they are unable to fly. When chased by a canoe, and obliged to dive frequently, they soon become fatigued, and make for the shore with the intention of hiding themselves, but as they are not fleet, they fall an easy prey to their pursuers. In autumn they again assemble in flocks on the shores of Hudson's Bay, for three weeks or a month previous to their departure southwards."

The Canada goose has been domesticated and is not an uncommon inhabitant of the poultry-yard, either in this country or in England. It does not breed till it is three years old. It is somewhat larger than the common goose, and its flesh is better; it has also more feathers and of better quality. It is very hardy, and rears its young with much certainty. It is believed to be quite as profitable as the common kind ; and considering its beauty and usefulness, it would seem desirable that it should be multiplied in a domestic state.

The Canada goose will breed with the common. and also with the Chinese goose,—but the hybrid offspring are in all cases, incapable of procreation. Some poultrymen, however, nake it an object to be edimongrels, as they are called. They grow rapidly, and acquire a larger size than either of their parents, and their ficsh is of so fine a flavor, and so highly prized, that it readily commands a higher price in the market. The finest mongrels are produced between the wild and the Bremen, and the wild and the Chinese geese.

It is stated on the authority of Buffon, that the Canadian goose, kept in a domestic state in France, was found to interbreed familiarly with the swans. Have any attempts been made to cause this goose to breed with the American swan, and with what success?

It may be remarked that the wild goose (A. palustris) of Europe, is the parent of our common domestic grose, and of course a distinct species from the Canadian goose, -Albany Cult.

ASHES AS MANURE FOR GRASS LANDS .- There is scarcely any part of this country where leached ashes cannot be obtained in greater or less quantity : and in the vicinity of asheries, abundance may generally be had. If the following remarks by Count Chaptal are applicable to soils, of whatever materials they may be composed, a knowledge of this property of leached ashes would, in many instances, be of great value. At all events, the experiment is easily performed on a moderate scale.

"The ashes, produced by the combustion of wood in our common domestic fires, give rise to some very remarkable results. Without being leached, these ashes are much too active ; but after having been deprived by the action of water, of nearly all their salts, and employed in this state, under the name of buck-ashes, they still produce great effect.

"The action of the buck ashes is most powerful upon moist lands and meadows, in which they not only facilitate the growth of useful plants, but if employed constantly for several years, they will free the soil from weeds. By the use of them, land constantly drenched

with water may be freed from rushes, and prepared for yielding clover and other plants of good kinds." It has heen frequently supposed that ashes applied to wet, heavy soils, is injurious. This is probably owing to the availant heim the presence and the here. to the application being too uneven, and in too large quantities, and to the want of mixing them intimately with the soil. Chaptal says, " Wood ashes possess the double property of amending a wet and clayey soil, by dividing and drying it, and of promoting vegetation by the salts they contain."

It is well known, that the evenly spread and intimately intermixed layer of ashes which soils receive by burning the turf, produces extraordinary effects upon

LIST OF PREMIUMS	GRADE HEIFER, 2 YEARS.	~
AWARDED BY THE PROVINCIAL AGRICULTURAL	1. James Morton, Kingston, M. D.         3 0           2. Hugh Rankin,         "	
ASSOCIATION,	3. " " "	
At Kingston, September, 1849.	GRADE HEIFER, 1 YEAR.	
210 Integatori, Supremotry 1020	1. J. L. Macdonald, Gananoque, J. D 2 10 2. W. S. Macdonald	
CLASS A		0
CLASS ADURHAMS.	GRADE HEIFER, 1849.	v
BULL. $\pounds$ s. d.	1. C. Hinds, Haldimand, New. Dis 1 10	0
1. Ralph Wade, Senr., Hope, New. District 7 10 0	2. John Ovens, Kingston, M. D.	0
2. J. V. S. Masson, Seymour, " 4 0 0	3. Rev. J. Allen, Wolfe Island, M.D 0 10	0
3. G. i ongley, Maitland, Johnstown District 2 0 0	FAT OX OR STEER. 1. C. Hinds, Haldimand, New. Dis 2 10	n
DURHAM BULL, 2 YEARS. 1. M. Jonas, Darlington, New. Dis 5 0 0	2. J. & W. Breden, Kingston, M. D 1 5	ŏ
DURHAM BULL, 1 YEAR.	FAT COW OR HEIFER.	
1. Ralph Wade, Senr., Hope, New. Dis 4 0 0	1. Ralph Wade, Jr., Hope, New. D 2 10	0
2. John Wetenhall, Nelson, G. D	2. J. &. W. Breden, Kingston, M. D 1 5	0
3. John Ovens, Kingston, M. D 1 0 0 DURHAM BULL CALF, 1849.	YOKE WORKING OXEN. 1. John Thompson, Napanee, M. D 3 0	0
1. John Wade, Hope, N. D	2. John D. Purdy, Sydney, V. D	
2. George Miller, Markham, H. D 1 10 0	3. A. Miller, Ernestown, M. D 1 0	0
3. """"" 1 0 0	CLASS F AGRICULTURAL HORSES.	
DURHAM COW. 1. John Wade, Hope, New. Dis	STALLIONS.	~
2. R Wade, Senr.         "         2.10         0           3. Ralph Wade, Jr.         "         1.10         0	1. Joseph Ashford, Toronto, H. D.         10         0           2. James Powell, York,         "         6         5	0
3. Ralph Wade, Jr. " 1 10 0	3. Thos. Nattrass, Cavan, New. D 2 10	ŭ
DURHAM HEIFER, 2 YEARS.	STALLION, 3 YEARS.	
1. Ralph Wade, Senr., Hope, New. Dis.         3         0         0           2. A. Cowan, Jr. Pittsburgh, M. D.         2         0         0		
· DURHAM HEIFER, 1 YEAR.	STALLION, 2 YEARS.	v
1. Ralph Wade, Jr., Hope, New. Dis 2 10 0	1. James Garrey, Elora, Wellington Dis 1 0	0
DURHAM HEIFER, 1849.	GELDING OR FILLY, 2 YEARS.	
1. Ralph J. Wade, Hope, New. Dis 1 10 0	2. A. McIntyre, Pittsburg, " 2 0	0
CLASS BDEVONS.	3. S. Hart, Picton, P. E. D 1 0	
DEVON BULL.	. MATCHED CARRIAGE HORSES.	
1. John Masson, Cobourg, New. D 7 0 0 DEVON BULL, 2 YEARS OLD.	1. Darius Doty, Ingersoll         4         0           2. S. Stevens, Belleville         3         0	
1. Asa A. Burnham, Cobourg, N. D 5 0 0		ŏ
DEVON BULL, 1 YEAR OLD.	DRAUGHT HORSES.	
	1. John Wilson, Oshawa, Home Dis	0
DEVON COW. 1. John Masson, Cobourg, New. Dis 4 0 0	2. John Rennie, Camden, M. D	
2. """"	BROOD MARE AND FOAL.	č
3. Asa A. Burnham, " 1 10 0	1. James Gibson, Kingston, M. D 5 0	0
DEVON HEIFER, 2 YEARS OLD.	2. W. Fairman, Pittsburg " 3 0 4 3. James Creig, Charlottenburg, E. D 1 0	
	CLASS G.—THOROUGH-BRED HORSES.	Ů
DEVON HEIFER, I YEAR. 1. John Masson, Cobourg, New. D	STALLIONS.	
CLASS DAYRSHIRES.	1. John Gibson, St. Catharines, Niag. D 5 0 (	
AYRSHIRE BULL.	2. John Norton, Kingston, M. D	
1. James B. Ewart, Dundas, G. D 7 10 0	STALLION, 3 YEARS.	v
	1. G. A. Cumming. Kingston, M. D 5 0	0
DISCRETIONARY.	STALLION, 2 YEARS.	
John Cookman, Odletown, L. C.	1. John Ovens, Kingston 1 0	0
AVRSHIRE BULLS, 2 YEARS. 1. A. Cameron, Garden Island, M. D 5 0 0	MARE AND FOAL. 1. J. McNince, Pittsburg, M. D 5 0	0
AYRSHIRÈ COW.	CLASS HSHEEP.	÷.
1. James B. Ewart, Dundås, G. D.         4         0         0           2. John Weir, W. Flamborough, "         2         10         0	LEICESTER RAM.	
<sup>2</sup> John Weir, W. Flamborough, "	1. George Miller, Markham, H. D 4 0	Ő
CLASS EGRADE CATTLE.	2. Ralph Wade, jr., Hope, N. D	0
GRADE COW.	SHEARLING RAM.	í
1. Ralph Wade, Jr., Hope, New. Dis 4 0 0	1. A. Cameron. Garden Island, M. D 2 10 (	õ
<sup>2</sup> . John Flanigan, Kingston, M. D 2 10 0 <sup>3</sup> . J. L. Macdonald, Gananoque, J. D 1 10 0	2. E. Archer, York, H. D 1 10 ( 3. John Hawkins, Wolfe Island, H. D 0 15 (	
and a supervision of the second secon		4

2. John Hawkins, Wolfe Island, M. D 1 0	0	BOAR FIG, 1849.           1. J. W. Parmenter, Gananoque, J. D.         200           2. J. Walker, Mill Creek, M. D.         100           3. J. W. Parmenter, Gananoque, M. D.         100
2. John Thompson, Nepcan, D. D 3 0 3. Wm. Holditch, Loughboro', M.D 1 10	0	sow FIG, 1849. 1. Rev. J. Allen, Wolfe Island, M. D 2 0 0 2. John Gordanier, Ernestown 1 10 0 3. Thomas Briggs, Kingston 1 0 0
	0	CLASS JAGRICULTURAL IMPLEMENTS.
2. John Hitchins, "	0	WOODEN PLOUGH. 1. E. McTavish, Darlington, N. D 2 0 0
EWE LAMBS. 1. George Miller, Matkham, H. D 1 10	1	2. A. McIntyre, Pittsburg, M. D 1 10 0 3. John Gilrea, Scarborough, H. D 1 0 0
3. A. Irvin 0 10	0	IRON PLOUGH. 1. J. Newton, Cobourg, N. D
south Downs.—RAM. 1. John Spencer, Whitby. H. D	0 0 0	<ol> <li>A. Fleck, Montreal</li></ol>
SHEARLING RAM. 1. Asa A. Burnham, Cobourg. N. D 2 10	0	FANNING MILL. 1. D. & J. Coon, Prescott, J. D 1 10 0
RAM LAMB. 1. P. Davy, Bath, M. D	0 0	STRAW CUTTER.           1. Richard Tremain, N. D
EWES, TWO SHEARS AND OVER. 1. John Spencer, Whitby, II. D	0	SMUT MACHINE. 1. A. Duncan, sen., Cobourg, N. D 1 10 0
EWE LAMBS. 1. John Dunn, Pittsburg, M. D 1 10	0	2. " " 0 15 0 GRAIN CRACKER.
MERINOS AND SAXONSRAM. 1. A. D. Dougall, Picton, P. E. D	0	1. Peter Bristol, Fredericksburgh 2 0 0 WAGCON, TWO-HORSE.
<ol> <li>Capt. Collaton, Haldimand, N. D</li></ol>	0	1. J. D. Purdy Sidney, V. D.       2 0 0         2. Thomas Armstrong, Camden, M. D.       1 0 0         3. J. Walker, Mill Creek       0 10 0
1. Daniel Hayden, Leeds. J. D.       2 10         2. Capt. Collaton, Haldimand. N. D.       1 10         3. M. Gibson, St. Catharines, N. D.       0 15	0 0 0	HORSE CART. 1. George Mitchell, Gananoque, J. D 1 0 0 2. R.Spooner, Kingston, M. D 0 10 0
RAM LAMB. 1. Capt. Collaton, Haldimand. New. Dist 2 0 2. James Coile, seu., Wolfe Island, M. D 1 0	0 0	WOODEN ROLLER. 1. Joseph Ferris, Kingston, M. D 1 5 0
FAT SHEEP-WETHERS. 1. George Miller, Markham, H. D 3 0 2. Ralph Wade, jr., Hope, N. D 1 10	0 0	REAPING MACHINE. 1. Samuel Chestnut, jr., Pittsburg, M. D 5 0 0 CULTIVATOR.
3. " " 1 0 FAT EWES.	0	
	0	3. C. Penner, Lachine, L. C
CLASS I.—PIGS, LARGE BREED. BOAR PIG, 1 YEAR AND OVER.		HORSE SHOES. 1. Peter Kikluff, Kingston
1. Daniel Hayden, Leeds, J. D	000	3. M. Purser " " 0 5 0
3. Samuel Baldwin, Belleville, V. D 1 0 BREEDING SOW, 1 YEAR AND OVER.		1. Charles Vale, Toronto, H. D
1. Thomas Russell, Lecds, J. D.       3 0         2. J. W. Parmenter, Gananoque, J. D.       2 0         3. Daniel Hayden, Leeds       1 0	0	MANURE FORKS.
воля ріб. 1849. 1. Thomas Russell, Leeds, J. D 2 0 sow ріб. 1849.	0	1. Charles Vale, Toronto, H. D.         0 15 0           2. Skinner & McCullagh, Brockville, J. D.         0 10 0           3. Trickey & Co., Clarke, N. D.         0 5 0
1. Thomas Russell, Leeds, J. D.       2 0         2. "       "         3. Joseph Caniff, Belleville, V. D.       1 0	000	1. Skinner & McCullagh, Brockville, J. D.0 15 02. Charles Vale, Toronto0 10 0
SMALL BREED-BOAR 1 YEAR AND OVER. 1. W. Wilson, Kingston, M. D 3 0	0	
2. James Sparks "		1. Skinner & McCullagh, Brockville, J. D.         0 15 0           2.         "         0 10 0           3.         "         "
1. John Baker, Wolfe Island, M. D	C	OX YOKE AND BOWS.
3. W. Wilson, Kingston, M. D 1 0	U	1. H. Spooner, Kingston, M. D 0 15 0

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GRAIN CRADLE. 1. Skinner & McCullagh, Brockville, J. D. 0 10 (	2. Archibald Ramsay         0 15 0           3. McIntosh & Brush, York, H. D.         0 10 0
DISCRETIONARY. John Scott, Sorel. L. C.— <i>Model Bridges.</i> Chowns & Hamilton, Kingston— <i>Fan Bellows.</i>	FLANNEL, TWELVE YARDS           1. W. Gamble, Etobicoke, H. D.
Alexander Fleck, Montreal, L. C.— Two Ploughs. "Two Harrows. C. Clarke. Paris – Two Thrashers.	SATINETT, TWELVE YARDS. 1. John Dunn, Pittsburg, M. D
Charles Joiner, Loughboro', M. D.—Thrasher. H. Haight, Kingston—Portable Valise. Charles Joiner, Loughboro', M. D.—Potato Plough. A. Fleck, Montreal, L. C.—Drill Plough.	FLANNEL, NOT FACTORY MADE, TEN YARDS.         1. Captain Collaton, Haldimand
Sannel Hurlbert, Prescott—Drill Plough. A. Fleck. Montreal — Subsoil Plough, Drill Harrow. Arched Hurrow, Cheese Press. Skinner & McCullagh, Brockville—Grain Shovel. W. Fairmain, Pittsburg—Fallow Machine.	FULL CLOTH, NOT FACTORY MADE, TEN YARDS.         1. Mary Hitchcock, Wolfe Island, M. D 0 15 0         2. Archibald McAlillan, Kingston, M. D 0 10 0         3. A. Willoughby
Rapalje & Briggs, Rochester, N. Y.—Side Hill Plough. CLASS K.—PLEASURE CARRIAGE, ONE HORSE, 1. Samuel Hart, Picton, P. E. D	1. J. C. Huffman       0 15 0         2. Samuel D. Purdy, Ernestown, M. D 0 10 0         3. H. Huffman       0 5 0
CARRIAGE. TWO HORSE. 1. Frederick Keller, Ernestown, M. D 2 0 0 2. W. H. Gordanier, 1 10 0 FARM HARNESS.	19 William W Millon 0 10 0
1. W. Wilkinson, Kingston, M. D 1 10 0 2. W. Pierson, Cobourg, N. D 1 0 0	
PLEASURE HARNESS. 1. W. Pierson, Cobourg, N. D	LINEN BAGS (TWELVE) MANUFACTURED FROM CANADIAN FLAX. 1. N. A. Briscoe
SADDLE AND BRIDLE.           1. W. Wilkinson, Kingston, M. D.         1         0         0           2.         "         "         0         15         0	W. Gamble, Etobicoke, H. D Horse Blanket, Bear
TRAVELLING TRUNK.           1. H. Haight, Kingston, M. D.         1 10 0           2. """	1. H. Huffman         1 10 0           2. Ralph Wade, jr., Hope, N. D.         1 0 0
SOLE LEATHER.           1. John Dunn, Toronto, H. D.         0 15 0           2.         "         0 10 0           CALF SKIN.         0 10 0	1. John Cowan, Pittsburg, M. D
1. John Dunn, Toronto, H. D.       0 15 0         2.       "       0 10 0         FUR CAP.         1. Mr. Merckle, Belleville, V. D.       0 15 0	3. M. Welburn         0 10 0           MAPLE SUGAR (30 LBS.)         1. Ralph Wade, jr., Hope, N. D.
2. " " 0 10 0 3. " " 0 5 0	3. R. Dinwoodie, N. D.       0 15 0         CLASS N.—CENTRE TABLE.
BOOT MAKERS' WORK. 1. Thomas Thompson, Kingston, M. D 0 15 0	1. Drummond & Thompson, Toronto, H. D.       1       0       0         2. Thomas McDermot.       0       15       0         EASY ARM CHAIR.
2. Samuel Chown, " " 0 10 0 3. Samuel Anglin, " " 0 5 0 DISCRETIONARY.	2. George Bolter, Demorestville, P. E. D. 0 5 0 sofA.
<ul> <li>John Dawson, Kingston, M. D. — Clothes Measuring Machine.</li> <li>CLASS L.—WOOLLEN CARPET, TWELVE YARDS</li> </ul>	2. T. O. Butler, Kingston, M. D 1 10 0
AND OVER. 1. McIntosh & Brush, York, H 2. W. Gamble, Etobicoke 1 0 0	2. W. Hatch, """"" 0 0
WOOLLEN BLANKETS (PAIR).           1. W. Gamble, Etobicoke, H. D.         2000           2. J. Flanigan         1000	OTTOMAN. 1. A. Main, Kingston, M.D 1 0 0 WORK BOX.
COUNTERPANE.	1. A. Duncan         0 10 0           DRESSING CASE.         0 10 0           1. John Searle, Kingston, M. D

WRITING DESK. 1. Drummond and Thompson, Toronto, H. D. 0 10	2. John Hawkins, Wolfe Island         1         5         0           0         3. Jonathan Ferris, Kingston         1         0         0
CLASS OAPPLES, VARIETY OF.	CANADA COMPANY'S PRIZE FALL WHEAT. 1. James Lafferty, West Flamboro, G. D25 0 0
1. Thos. Kirkpatrick, Kingston M. D 0 15 2. Reuben Spooner, Kingston Tp., M.D 0 10	0 0 1. Capt. Shaw, Toronto, H. D 0 15 0
APPLES, TABLE (12). 1. R. Jackson, Kingston, M. D 0 10	2. P. Davy, Bath, M. D 0 10 0
2. Charles Vernon	$\begin{array}{c} 6\\ 6\\ 0\end{array}$ 1. Capt. Shaw, Toronto, H. D
APPLES, WINTER (12).	OATS. 1. Thomas Richmond, Gananoque, J. D 0 10 0
1. R. Jackson, Kingston, M.D.         0 10           2. Henry Turner, Toronto, H. D.         0 7	6 2. P. Davy, Bath, M. D 0 5 0
3. Mr. Fleming, "" 0 5 PEARS, TABLE (12).	1. Mr. Wellburn, Kingston 0 10 0
1. None awarded.	2. Capt. Shaw, Toronto, H. D 0 5 0 INDIAN CORN.
2. Mr. Fleming, Toronto	0 1. N. A. Briscoe, Ernestown 0 10 0
PEARS, WINTER (12). 1. Hon. R. Baldwin, Toronto, H. D 0 10	TIMOTHY SEED. 0 1. Rob. Collins, Camden, M. D 0 15 0
2. The Baron de Longueil, Kingston, M. D 0 7	6 2. Mr. Millroy, """ 0 10 0 CLOVER SEED,
GRAPES. 1. Henry Turner, Toronto, H.D 0 10	o'1. Mr. C. Davy, Ernestown,
2. William Thompson, Nepcan, D. D 0 7 3. Henry Turner, Toronto, H. D 0 5	6 2. J. C. Davy, " 0 15 0 0 FLAX SEED.
BROCOLI (4 HEADS).	1. Capt, Shaw, Toronto, H. D 0 10 0 0 2. John Ferris, Kingston, M. D 0 5 0
1. Henry Turner, Toronto, H. D 0 10 CAULIFLOWER (4 HEADS).	HOPS.
1. Henry Turner, Toronto, H. D 0 10 2. """" " 0 5	0 1. T. Nightingale, Toronto, H.D. 2 10 0 0 2. Joseph Scott, Augusta, J. D 1 10 0
CABBAGE (4 HEADS).	POTATOES.
1. Henry Turner, Toronto, H.D 0 10 2. """"" 0 5	0 <sup>1</sup> . Robt. Collins, Camden
CARROTS (12 FOR TABLE).	SWEDISH TURNIPS. 0 1. George Stanton, St. George, G. D 0 10 0
1. Rev. W. Allen, Wolfe Island, M.D 0 10 2. H. Sherwood, Toronto, H. D 0 5	$0$ 2. Charles Young, Camden, M. D. $\dots 0$ 7 6
WHITE CELERY. 1. Mr. Fleming, Toronto, H. D 0 10	FIELD CARROTS.
1. Mr. Fleming, Toronto, H. D 0 10 RED CELERY.	0 1. Gardener of the Baroness de Longueil, Kingston, M.D.
1. Mr. Fleming, Toronto, H. D 0 10 EGG PLANTS.	0 2. Rev. Mr. Allen, Wolfe Island 0 7 6 MANGEL WURTZEL.
1. Mr. Fleming, Toronto, H. D 0 10	0 1. John Bush. Wolfe Island 0 10 0
2. " " " 0 5 BLOOD BEETS.	0 2. Charles Young, Camden 0 7 6 SUGAR BEET.
1. Gardener of the Baroness de Longueil,	1. Gardener of the Baroness de Longueil,
Kingston, M. D 0 10 2. Mr. Fleming, Toronto, H. D 0 5	0 Kingston, M. D 0 10 0 0 2. Rev. J. Allen, Wolfe Island 0 7 6
WHITE ONIONS. 1 Mr. Fleming, Toronto. II. D 0 10	PARSNIPS.
2. Gardener of the Baroness de Longueil, Kingston, M. D 0 5	Kingston, M. D 0 10 0
YELLOW ONIONS.	W. Daniel, " (Dis.)
1. H. Sherwood, Toronto, H. D	DISCRETIONARY.
RED ONIONS. 1. H. Sherwood, Toronto, H. D 0 10	Enwanger & Darry, Rochester-Variety of Fruus.
2. H. Turner " " 0 5	Sam D Clark Canden-Maddar
SALSIFY. 1. Captain Shaw, Toronto, H. D 0 10 9	Wm. Gordon, Toronto-Squash.
WHITE BEANS.	R. Baldwin, Toronto-Peaches.
1. Mr. Glassford, Glenburnie         0 10           2. John Gilbert, Cobourg         0 5	
WINTER WHEAT. 1. J. Lafferty, West Flamboro', G. D 2 (	
2. Paul Clapp, Hillier, P. E. D	Wm. Gordon, Toronto-Tomatoes.
SPRING WHEAT. 1. R. M. Huffman, Ernestown 2 0	" Peppers.

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### THE CANADIAN AGRICULTURIST.

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CLASS P.	WOOLLEN SOCKS.
COOKING STOVES.	1. Mrs. Brewer, Kingston, M. D.         0 10 0           2. William Tubbs, Picton, P. E. D.         0 5 0
1. GB. Spencer, Toronto 1 0 2. Chowns and Hamilton, Kingston 0 10	WOOLLEN STOCKINGS.
PARLOUR STUVE.	1. T. Stinson, Picton 0 10 0
1. Chowns & Hamilton, Kingston 1 0	2. William Tubbs, Picton 0 5 0 WOOLLEN MITS.
BALANCE SCALES. 1. B. Spencer, Toronto 1 0	1. William Tubbs, Picton 0 10 0
	2. Samuel D. Purdy, Earnestown 0 5 0
3. M. Parsee, Cobourg 0 5	WOOLLEN GLOVES. 1. Mrs. Welburne, Kingston 0 10 0
HOT AIR APPARATUS. 1. G. B. Spencer, Toronto 1 10	GENTLEMEN'S SHIRTS.
BENCH PLANES.	1. Mrs. Mulligan, Kingston 0 15 0
1 117 117 0 00 3 5 4 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
CORN BROOMS.	QUILTS
	1. Miss Ann Skinner, Kingston 1 5 0
2. " " 0 5 3. P. Davy, Bath 0 5	12. Damuel D. Tavior, Gamoen $10.0$
WOODEN PAIL.	
	CLASS R.
WASH TUBS.	1. Miss Clench, Cobourg
	5 2. J. Gillespie, Toronto 1 10 0
HAMES. 1. Male & Toogood, Haldimand, N. D 0 10	WATER COLOURS-PORTRAIT.
	1. Mrs. Hurlburt, Toronto
SADDLE-TREE.	WATER COLOURS-FIGURED.
1. Skinner & McCullagh, Brockville 0 10 2. """""" 0 5	1. Miss Chench, Cobourg 2 0 0
BOARD BULE.	1. Mr. Bull, Toronto
	2. " " 15000 1000000
2. " "	CRAYON PORTRAIT.
1. Isaac Lake, Ernestown 0 10	1. S. Fleming, Toronto         2 10 0           2. Mrs. McGibbon, Kingston         1 10 0
CHURN. 1. Thomas Funnell, Kingston	CRAYON FIGURE.
2. The Baroness de Longueil, Wolfe Island 0 5	1. John Wilkie, Toronto
EARTH AUGER.	2. Mr. Bull, " 1 5 0
1. Charles Vale, Toronto 0 10 ( RIFLE.	CRAYON LANDSCAPE.
1. Augus McLeod (manufactured by Thomas	PENCIL PORTRAIT.
Costen), Montreai 0 15 (	1. Mr. Bull, Toronto 2 0 0
DISCRETIONARY. H. Stone, KingstonGlue.	PENCIL FIGURE.
CLASS QLADIES' DEPARTMENT.	2. John Wetenhall, Nelson, G. D 1 5 0
WOOLLEN OR COTTON NETTING.	WOOD ENGRAVING.
1. Mrs. H. Macdonald, Kingston 0 15 (	
2. " " 0 10 (	STUFFED BIRDS. R. Perkins, sergeant 20th Regiment, Kingston 1 0 0
WOOLLEN OR COTTEN KNITTING. 1. Miss S. J. Gilbert, Cobourg 0 15 (	STAINED GLASS.
2. Mrs. Sharpe, Yonge Street, H. D 0 10 (	1. Mr. Bull, Toronto 1 0 0
EMBROIDERY.	DISCRETIONARY.
1. Margaret Robb, Kingston         1         0         0           2. Sarah McQuceny, "         0         15         0	S. Stacey, Toronto—Penmanship.
RAISED WORSTED WORK.	J. Ramage. Kingston-Silver Work.
	Messrs. Willard & Houlay, Syracuse—Silver Work. Benedict & Barney, Syracuse—Gold Pens.
2. Mrs. F. Harper, Kingston 0 15 ( worsted work.	S. Flerning, Toronto—Design for Diploma.
1. Miss Clay. Nelson, G. D 0 15 (	Norton & Seymour, Syracuse—Silver Work.
george and g	D. Macdonell, Buffalc—Daguerreotype. Mr. Morrison, Toronto—Silver Work.
DISCRETIONARY. 1. Miss Thibodo, Kingston.	CLASS S.
CROTCHET WORK.	POTTERY-BEST SPECIMEN.
1. Miss Gornall, Kingston.	1. Jonathan Peel, Brockville 0 15 0
2. Mrs. Forbes, Spring Grove, M. D. WAX FLOWERS.	2. " . " 0 10 0
1. Miss C. Currie, Niagara	DRAINING TILL. 1. John Wade, Hope, N.D
2. Miss Clench, Cobourg 0 10 (	· · · · · · · · · · · · · · · · · · ·

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	CLASS T.		ROOT CUTTER.
	BOOK BINDING.	^	Rapalje & Briggs, Rochester Co., N. Y., dip. 1 0 0 CORN AND COB CRUSHERS.
1. 2.	Charles Hobrough, Kingston 1 0 G. Goodeve, " 0 15	0 0	Rapalje & Briggs, Rochester, N. Y 1 0 0
1.	WRITING PAPER. John Eastwood, Toronto 1 0	0	REAPING MACHINE. ' G. Gallop, Auburn, N. Y., diploma 2 10 0
	PRINTING PAPER. John Eastwood, Toronto 1 0	0	CULTIVATOR. Rapalje & Briggs, Rochester, N. Y., diplomá, 1 5 0
	LUTTER-PRESS PRINTING.		ASSORTMENT AGRICULTURAL IMPLEMENTS.
1.	E. J. Barker, Kingston 2 10 CLASS V.	v	Rapalje & Briggs, Rochester, N Y., diploma, 5 0 0 DISCRETIONARY.
	PLOUGHMEN-OVER 18 YEARS OF AGE.	_	Gilbert & Co., Boston, diploma-Eolien Piano Forte.
	William Scott, Pittsburg, M. D 4 0 Archibald Rambay, Glenburnie, M. D 3 0	0	[Nore.—Not having the list at hand, we are unable to give the amounts awarded to the discretionary class.
$\tilde{3}$	David E md, Kingston, M. D 2 0	ŏ	The awards consisted of diplomas or small premiums in
	Matthew W. Gow, Glenburnie, M. D 1 0	0	money.]
1.	PLOUGHMEN UNDER 18 YEARS OF AGE. Archibald Christie, Glenburnie, M. D 4 0	0	Editors' Notices, Sc.
	CLASS W.		
1	POULTRY-DORKIN FOWLS.	~	HOME DISTRICT AGRICULTURAL SOCIETY.
2.	Thomas Briggs, Kingston, M. D 0 10	0 0	The Fall Show, of this Society, will be held on Wed-
	POLAND FOWLS.	-	nesday, the 17th October, at Richmond Hill, and a much larger amount than usual of stock and articles for com-
1.	Thomas Kelley, Pittsburg, M. D 0 10	0	petition, as well as of visitors, is expected.
2.	John Duim, " 0 5	0	
1.	FowLS-LARGE BREED. • 0 10	0	' MARKETS.
	Thomas Fannell, "	ŏ	The latest accounts from England contain very fa-
	TURKEYS.		vourable reports of the harvest in the British Islands, which appears to have been almost universally abundant,
1.	John Dunn, Pittsburg 0 10	0	and the grain is said to be of very superior quality.
1	LARGE GEESE.	~	Prices, consequently, continued to fall, but it is thought
2.	Archibald McMillan, Glenburnie 0 10 John Ovens, Kingston 0 5	0	the lowest point had been reached. In the Toronto market, wheat has recently suffered a
	TOP-KNOT DUCKS.	Ū	considerable decline in consequence, chiefly, of the ab-
1.	Thomas Briggs, Kingston 0 10	0	sence of American purchasers.
2.		0	
1.	COMMON DUCKS. Thomas Briggs, Kingston 0 10	0	TORONTO MARKET. Oct. 10, 1849.
2.	John Dunn, Pittsburg, M. D 0 5	Ő	s. d. s. d.
	GUINEA FOWLS.		Flour, per brl. 196lbs 17 6 to 19 6
1.	John Dum, Pittsburg 0 10 Thomas Briggs, Kingston 0 5	00	Wheat, per bushel, 60lbs. $         -$
_	BEST LOT OF POULTRY.		Rye, per bushel, 56lbs 2 6 to 3 2
1.	Thomas Briggs, Kingston 0 10	0	Oats, per bushel, 34lbs 1 0 to <b>e</b> 4 Oatmeal, per bbl, 196lbs 15 0 to 18 0
2.	John Dunn, Pittsburg 0 5	0	Oatmeal, per bbl. 196lbs 15 0 to 18 0 Pease, per bushel, 60lbs 1 6 to 1 01
w	DISCRETIONARY.		Potatoes, per bushel 1 6 to 2 0
44	illiam P. Patrick, Kingston-Fancy Pigeons.		Onions 3 6 to 5 0 Beef, per 100lbs 17 6 to 20 0
	CLASS X.		Timothy, per bushel, 60 lbs 6 0 to 8 0
1.	AGRICULTURAL STALLIONS. C. Schoby, Cayuga Co., N. Ydiploma- 3 0	0	Turkeys, each 2 6 to 3 9
2,	P. Wood, Onedia Co., N. Y	ŏ	Geese, each 1 3 to 2 6 Ducks, per couple 1 0 to 1 6
	THOPOUGH-BRED STALLION. Abraham Butler, Maine Co., N.Y., diploma, 3 0	•	Chickens, per couple 1 6 to 1 9 Pork, per lb 0 21 to 0 33
	SUBSOIL PLOUGH.	Ľ.	Ham, per 100 lb 35 0 to 45 0
1.	Rapalje & Briggs, Rochester Co., N. Y., dip. 1 0	0	Bacon per 100 lbs, $         -$
1.	HARROWS. Rapalje & Briggs, Rochester Co., N.Y 1 .0	0	Lamb per quarter 2 0 to 3 0 Fresh Butter, per lb 0 71 to 0 9
1.	FANNING MILLS. Rapalje & Briggs, Rochester Co., N.Y., dip. 1 0	0	Firkin Butter, per la 0 5 to 0 6
	SEED DRILL. Rapalje & Briggs, Rochester Co., N.Y., dip. 1 0		Lard, per lb 0 4 to 0 4 Apples, per barrel, 10 6 to 13 6
	STRAW CUTTER.		Eggs, per dozen, 0 6 to 0 7
1.	Rapalje & Briggs, Rochester C., N. Y 2 0	0	Fowls, per pair 1 3 to 1 1 Straw; per ton, 25 0 to 30 0
	PORTABLE GRIST MILL.	,	Hay, per ton, 30 0 to 40 0
1.	Charles Ross, Syracuse, N.Y., diploma 2 10	0	Fire Wood 10 0 to 12 0