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# ONTARIO FARMER; 

## A MONTHLY JOURNAL OF



VOL. I.
TORONTO, OCTOBER, 1869.
No. 10.

## THE PROVINCIAL EXHIBITION.

In this age of daily newspapers, an event of so much general interest as a Provincial Exhibition is in danger of becoming an "old, old story" before agricultural monthlies are able to chronicle it. But the "slow monthlies," as they are sometimes called, have some advantages over the fast dailies. They have time for review, correction, and condensation. It is their's to sift mattersto choose the salient points of a narrative, and give conclusions deliberately arrived at, rather than impressions hastily formed. There is one feature of decided superiority which belongs to the montllies, they are not so ephemeral in their duration as the dailies. It is the doom of didies, and even weeklies, to be used for all minner of purposes after they have been once read, and sometimes before. They are of inconFenient size for preservation, but are extremely handy for lighting fires, doing up parcels, and seeving a variety of useful turns. About twentyfour hours is, we imagine, the average existence of a daily newspaper, while a weekly may posaibly survive a fortnight. It is unusual to find a file of a weekly paper, while he who should :indulge in the freak of keeping all the numbers Dia daily paper, would be regarded as a most eccentric individual. It is otherwise with a monthly. Its chance of being preserved is gocd, and it may even be exaltcd to the dignity of a bound book at the year's end. In that shape it map continue to narrate the tale of a ProTincial Exhibition to a period when a large bonas Trould fail to unearth a single daily or Weekly issued during or immediately after fair timo.

It is always a welcome thing to chronicle success. Nuid dy aspires to de a historian of failure. It is therefore a very pleasant task to record the listory of the Exhibition of 1869, for it was a complete success. Now and then, when some important event is about to come off, every thing seems to conspire in its favour. In other cases there is apparently a conspiracy for disappointment and defeat. In the present instance, almost every conceivable circumstance befriended and smiled upon the affair. The success was not achieved in the face of odds and difficulties, but was a result to which all the antecedents and. concomitants infallibly conducted. An abundant harvest had just been gathered in, putting every hody into good spirits, and inciining them to holiday-keeping. The place where the Exhibition was held is the centre of an unusually fine, and comparatively old agricultural, district. The weather was all that could be desired, a preliminary rain laying the dust for the occasion, and four superb fair days following immediately thereafter. Last, but not least, the presence of royalty and greatness added an irresistible attraction. It is not often that an exhibition in the Colonies can buast the attendance of a Prince of the blood, a Governor-General, and Lieutenant-Governor, with their ladies, at one and the same time, and no doubt this uncommon circumstance drew thousands to London, who would not have gone to see such every day things as horses and cattle, sheep and pigs, huge turnips and nice bunches of grapes. Certain it is that the attendance was more numerous than at any former Frovincial Fair. On Wednesday more than 26,000 tickets were sold, and on Thursday, upwards of 25,000 ; 'so that on
these two days the numan part of the Exhibition alone was worth going far to see.
It is undeniable that London is a fine poini for a Provincial Exhibition. Not only dọ the number, intelligence, and wealth of the surrounding agricultural population secure a goodly display of animals and products, and a large concourse of visitors, but the city hau many advantages from its rentral and accessible position, its disproportionately large annount of hotel accommodation, the hospitable disposition of its inhabitants, and the business energy of its leading. men. London is especially worthy of honourable mention in connection with a Provincial Exhilitioun, as being itself a remarkable standing evidence of the rapid growth of a new country, and the certainty with which settlers in Canada thrive and prosper. On thise heads we can speak frum the recurd, having known London from an early period in its history. Our acquaintance with it stretches bacls to the year of the rebellion, 183n. It was then reached from Toronto and Hamilton by a stage-c....h, that lumbered alung thr ugh stumpy defilis, and: orer curduruy roads, and struggled through the horrid mud of the Grand River, and other caismal swamps. The journey frum Toronto thither, now performed so easily and quickly on either of the twu railroads, was, thirty years agu, a must furuidable undertuking-a thing of peril and risk, a tasle for time a:ad patience, requiring. buth nerve aud muscle, mural courage and fhysical endurance. Stunps, cordurog, and mud held sway then in Dundaw Street, nuw the prin... cipal business thuruughifare of Lundon, and boasting as fine blocks of stores as any city inthe Duminion. Thirty gears ago the primeval furest hugged the city closely. Our first. experiences with the ase, with lugging, burning off, and ${ }^{2}$ rutitirg in the first crop, were gained within five minutes walk of the present City Hall and Markct. `The fine names burrowed from London the grat. seemed burlesque, and the fresh memory of the real Pall Mall, Covent Garden MarLet, Blackfriar's Bridge, \&c., provoked a smile at the expcnse of the presuming settlers, who dared to picture a future for their infant city not. unworthy the name and fame of its Britigh prototype. But London the great has no feason, now to be ashamed of London the less. The river
of the latter is but a bahe compared with "Father Thames;" its area is only limited, its population is but small, its commerice is comprised within narrow bounds, and its edifices do not approach the palatial grandeur of the world's metropolis; yet, thougin the infant is not the giant's peer, it may have in it a germ of gigantic gro sth, which coming ages will develop. The Canadian London is as truly a marvel, when its age, of less than half a century, is taken into account, as the British London, which history telles us was a place of considerable importance as long agu as the reign of Nero,-half a century only after the birth of Christ.
Londou is beautifully situated on an elevated plateau, at the junction of the Northern and Easternbranches of the river Thames. Those who have never been fortunate enough to see it, will get sume general ideas of its appearance.from the accumparying illustration. The view here giren ? is of the western part of the city. The river Thames, the $\mathbb{G}$. W. Railway Bridge, the Cuwts House, the Epiṣcopal and Roman Cathulio Churches are conspicuous objects in the picture, which, although it necessarily shows but a jant of the city, will at once be rtwognized as a faith. ful representation of the locality by all whu are acquainted with it.

The Exhibition grounds, buildings and ap purtenances, were exceedingly pleasant, wis venient, and suitable. The grounds are hish, dry, and gently sloping toward a hollow in whech an artificial sheet of water, Lake Horn, reposech, at unce adding beauty to the scene, and furaish ing an ample supply of the element necessary if the comfort of the stock, and the purposes d mawhinery exlibibitors. The main Exhibitom baduing is of white brick, and, therefore, mory durithle and permanent than the Crystal Palacez uf Turonto and Hamilton, which are bựth d woud and glass. We give herewith an ergar ius of the London building, from which it nill lu a wen by strangers that it is a structure of re spectable size, eqgd of neat and tasteful actis tectural style. Ample accommouation ny pruvided for stock; indeed, the pens and stall were in oxcess of the demand. So far as x. could, juduge, very complete and admirable M. rangemonts wero made, and we question if Provincial Exhibition was ever held, in onf
nection with which there was less complaint on cient accommodation for their animals and the part of exhibitors of inconvenient or insuffi- articles.

general way, and notice, in passing, such matters as are of special interest. The entries, as a whole, were largely in excess of last year. Still some of the classes were hardly up to last year's mark. This observation is particularly applicable to the class of Short Horn cattle. Owing to a stringent application of the rule requiring entiles to be made on or befote August 10th, the superb herd owned by M. H. Cochrane, Esq., of Compton, Quebec, was prohibited from makitg its appearance on the show ground. The action of the Board in this case is very generaily cundemned by all right-thinking people, and not a fuw suspect motives of no creditable kind as having influenced the gentleman who is well
known to be the leading spirit in its councils and proceedings. "Red-tapeism" is made to bear the brunt of the blame, by an influential joumal, which in all cases labours hard to put the best face on the questionable doings of the Board and its inspiring officer. The facts, as alleged in reference to this matter, are that the rulu above referred to has heretofore been very much of a dead letter, and that the stringent application of it so as to exclude Mr. Cochrane's fine animaln, was sudden, and without provious intimation of rigid adherence to the letter of the law. Moreover, it is affirmed that up to, and even after, the rojection of Mr. Cochrane's entries, the entries of other parties were taken. The Secre-


THE PROVINCIAL EXHIBITION BUILDING.
tary's reply to Mr. Cochrane's letter forwarding entries, was dated August 20th. That official is nut noted for promptitude, and it may be easily seen how strictly and literally the rule was applied. The cause of delay assigned by Mr. Cochrane was the non-arrival of pedigrees from England belonging to newly-imported animals, and when it is considered that the intending exhibitor belongs to a sister province, and is, therefore, in the position of a stranger and a visitor, to whom all possible courtesy was due, and, moreover, that he is a gentleman who has invested a larger amount in the improvement of stock than any one else in the Dominion, it does
seem outrageous that the rule should $n_{i}$ i hare been strained in his favour, rather than against lim. If the Board felt obliged, by a sense of duty, to exclude the belated entries, they might at least have expressed their deep regret, and invited Mr. Cochrane to show his animals, though ther could not compete for premiums We have that gentleman's own authority for saying that had he been assured his animals could have accommodation on the show ground, he would have brought them, although they wene not permitted to compete for premiums. Loos at it as you will, it is a petty and sorry affair, and reflects no honour on the exclusionista

The Short Hom class was farther weakened by the nartial absence of Mr. F. W. Stone's animals, and the total absence of those owned by Hon. D. Cluristie. Mr. Stone did not return from a visit to England until the very eve of the Exhibition, and it is, therefore, not surprising that only a portion of his herd should have made its way to Iondon. But we fail to find any valid cxcuse for Mr. Christie, who, we understand, pleads the risk to costly animals, and his unwillingness to put them into slow condition, arguments which, if of force at all, would spoil the Exhibition altogother. Surely Mr. Christie, as a prominent breder, a conspicuous member of the Board, and a zealous promoter of the Provincial Exhibition, should set his fellow-stock-men a better example than one which would leave the stalls utterly empiy of our finest and choicest animals. As it was, the Prince of Wales' Prize for the best herd of Short Houns had only two competitors, when, if Messrs. Cochrane, Stone and Christie had come out in force, there would have been at least five competitors for it.
It is believed that the sale of tickets at the zecent Exhibition was largely in excess of any previous occasion of the kind. The total number sold was 60,100 . Beside these there is reason to think a large number of tickets were fraudulently sold by collusion with dishonest gate-keepers. How many were thus dealt with has not been ascertained, but at least five thousand tickets are said to have been sold in this way. Some parties were arrested on suspicion of being concerned in this fraud, but it is questionable if their guilt will be made clear. From the regular sale of tickets, however, a very large amount of money has been received into the treasury of the Association, and we shall watch with some interest, as will sur readers we have no doubt, for the details of its disposal. With little else to do but manage the yearly exhibition, we do not see why the Association of sgriculture and Arts should not be self-supporting, or even a money-making concern, nor can we understand what need or use there is for a grant of $\$ 10,000$ per annum in aid of it.
The Fruit Growers' Association, the Association of Mechanics' Institutes, the Entomological Society, and the Association of Agriculture and Arts, all had thẹir annual meetings during Ex-
hibition week. Reports of their prnceedings will be found elsewherc. A Convention of Beekeepers met by prior appointment on the Tuesday evening, and organized an Association, which met on the two subsequent evenings, and whose annual meeting will henceforth be a fea iure in our Provincial Exhibition programme.
From the report of the annual meeting of the Association of Agriculture and Arts, elsewhere given, it will be seen that a vigorous effort was made to carry next year's Exhibition to Ottawa. It was, however, decided by a majority of ten votes, that it should go in due course to Toronto. A still more vigorous endeavour is to be made next year to fix it at Ottawa for 1871.

ANNUAL MEETING OF THE AGRICULTURAL ASSOCIATION.

The amual meeting of the Directors of the Agricultural and Arts Association was held on the evening of Sept. 23rd, in the Court House, -t':e President, E. Mallory, Esq., in the chair. The Council and sixty-eight delegates were present.

The minutes of Jast meeting were read and ap proved.

Auditors were then elected for the current year, Messis. E. A. McNaughton, Co. Clerk of Cobourg, and Geo. W. Murton, of Guelph, were chosen to this office.
The place for holding the Exhibition of 1870 next came up for discussion.
James Jolenson, Esq., of Sunnyside, moved that the neat annual meeting be held at Ottawa.

It was moved in amendment by Mr. Stock, That it be held at Toronto.
An animated debat:, ensued. Mr. Johnson, the Hon. Mr. Skead, the Hon. Malcolm.Cameron, Mr. Wright (of ${ }_{2}^{2} \mathrm{Ottaria}$ ), the Hon. David Christie, Paris, Dr. Beattie, Cobourg, and others, spoke strongly in favor of Ottawa as an act of justice towards that section.
The Mayor of Toronto, S. B. Harman, Esq., on behalf of that city, offered the Association all the necessary guarantees of accommodation. On behalf of Ottawa, Hon. Mr. Skead did the same, stating that buildings had been prepared. If this did not satisfy he would give his cheque for $\$ 10,000$ as security.

Mr. Stock, Mhyor Harman, Ald. Dickie and Metcalf, spoke in favor of Toronto.

On $\Omega$ division the vote stood:-For Toronto, 45 ; for Ottawa, 35.
Mr. Shier moved that the thanks of the Association be tendered to the city of London for the excellent accommodation afforded during the Exhibition. Carried.

Dr. Beattie moved a vote of thanks to the Grand Trunk R. R. Co. for the liberal treatment the Association had received at their hands. Carried.
Prof. Bucklaud moved a vote of thonks to Mr. Jas. Johnson and the Local Committee for the satisfactory and efficient manner in which thoir duties had been discharged. Carried.

The following is the annual address of the President to the Association :-
address of the president of the agriciltURAL SOCIETY ${ }^{n}$,
Mr. Vice-President and Gentlemen:
As it has long been the custom for the President of the Board of Agriculture to deliver an address during the Annual Exhibition, I need not apologise for standing where I do at present, and at empting to address you upon the great subjects to advance which this Exhibition has been held. But when I look around me and see so many gentlemen far better qualified to address you than I am-professional men, eminent scholars, and men whose voices have for years been leard in our legislative halls-and when I call to mind that these subjects have litherto been so ably discussed by my predecessors, I can assure you, gentlemen, it is with great diffiderice that I, a farmer of the old school, with but limited acquirements, make the attempt.

I am happy to know that we meet together at thiis time under very auspicious circumstances; our Province has this year been blessed with an abundant harvest, and our numerous and heary crops have generally becn secured in excellent order, for which may we be truly grateful to that Being, who, after the husbandman may plant and water, alone can give the increase.
Since the lasi Provincial Eshibition was held in Hamilton, a new Agricultural Act has been passed, which we trust, will have the effect of adrancing the best interests of the agriculturist, the manufacturer and the artizan, and thereby promote the welfare of the country generally; and our being assembled here is a proof that we are anxious to do our part towards causing the new law to be a boon to the Province of Oniario, which we represent. I am not vain enough to suppose that, after all that has been said, and the many rolumes that have been written upon the interesting subject of agriculture, and its concomitants, that I can say anything new, or anything that will enlighten this'intelligert audience
-and I will not spend the time, nor insult your superior judgment by giving my humble opinion as to the merit or demerit of the very excellent and almost innunerable articles, and the hundreds of superior animals that have been on exhibition during the week-"Ye yourselves have seen and car testify."

Nor will I trouble you with dry statistics. But as the most of us are so constituted that we seem to require line upon line, and procept upon precept, to urge us on in a secular pathiway of duty, as well as in a religious one, I have thought that perhaps I could not spend a fow moments more profitably than in alluding to a few genoral topics, or self-evident facts, that we are all more or less interested in; that, in the language of another, "may stir up your pure minds by way of remenibrance."

And if I shall have succeeded in causing any of my brother farmers, or any of my hearers, to form and act upon the resolution that they will do something (if only by example) that will improve the locality where they reside, either morally or physically, or in any way ameliorate the condition of our fellow-creatures, I shall be fully satisfied. I havie no doubts but you will agree with me in the opinion that a pursuit which engages the attention of more than fourfifths of our population, and is so intimately interworen with the interests of all classes that its prosperity gives life and energy to all other pursuits, which is the true fulndation of national wealth, and upon which commerce, arts and manufactures depend for their very existence, is one of so much importance that to give it encouragement by all legitimate means is the duty of the philanthropist, the patriot and the statesman ; and fully justifies our legislature in making liberal grants from year to year, to aid in the great work of agriculture and the mechanic arts.

As an art, agriculture has been practiced from remote antiquity ; but the applications of scionce which teach us the laws of nature, are of more recent date, and yet those laws must be understood in some mensure, if success is to be obtained.

No branch of art is so dependent upon the processes of nature as that of the farmcr. Do what he will, pursue what he will, attempt what he will, he is sure to fail if he contravenes Nature's laws. To teach ail that is known of these lams, is the business of Science ; and although agricultural instruction can be obtained in our University College; and although we have'a Professor of Agriculture fully capahle of teaching its various brainches, andsceholarships ereoted by the Senate of the University, and have had an. experimental farm carried on at great expense, still but very little has been done toward diffusing scientific lenowledge among farmers' sons generally. Now, if scientific knowledge is so valuable to the farmer, why not have it taught in our common schools, where our sons can be surrounded with the moral influence of the domestic circle, while being qualiiied to act mell their part in the great duties of life?

Some persons may say that the expense is too great ; that we cannot afford to employ teachers, and maintain them year after year, qualified to teach all these varied branches; others may say that to educate the masses of the people is to make them dissatisfied and unwilling to abide by the laws of the land. In answer to all these objections, we have but to say that the heaviesit tax we pay is to ignorauce; it burdens us in every department of life; it is a tax to which we pay directly more than we pay for the support of our government. Indirectly, we pizy it for our errors, for our failutes, for our visions, for our rices, and a large share of our disappointed hopes. On the other hand, it is intelligence, inoral and intellectual, which purifies the heart and elevates the man. It is intelligence-a broad and substantial knowledge of truthwhich restores to man the image of his Maker -his high place in the scale of created beings.
A great change has taken place in the public mind within a few years. A spirit of inquiry and investigation is aroused; much of this, no doubt has been brought about by the establis.1ment of Township and County Agricultural Societies and Fämers' Clubs, where mind häs been brought into contact with mind, and stimulated thought and action-where the exyerience of many, under viried circumstances, has been made known for the benefit of all. The establishing of numerous agricultural journals, that scatter broadcast over the land knowledge and experience, and the result of scientific investigation, have likewise been officient agencies in working this change in the public mind.
Agriculture, horticulture, the mechanic arts and commerce, have already received great aid from the application of science, and if we were to judge of the inture by the past, we would say they were destined to reach a degree of perfection such as the rrorld has not yet seen, and of Thich tre can scarcely conceive. Each exert an influence upon the others-any improvement in one produces corresponding improvement in others-and these are only steps onward into a field continually opening wider and wider to the viers of him who will watch the constant changes that are taking place. Notwithstanding all the scientific and other improvements that have been made, and the bright prospect of a glorious finture for the farmers of Canada, we must not forget that to insure success a sure foundation must he laid, by giving to the youths who will succeed ug such education or instruction as will especially fit them for the industrial pursuits of life.
Ithink the proper aim of education should be to train the mind and aliso the body for active exertion-to make both the body and the mind instruments of the will. The waining which the pugilist receives, that merely or mostly developes the physical powers. is degrading to man; that which cultivates the intellect at the expense of the body is also wrong. We want rigorous minds in vigorous boaies, capiable of coneentrating and using with equal facility all thielr varied yowers, a knowledge of fáçts aird
principles that can be applied to the varied waints of life.

This will in some measure be aciomplished when all honest bodily labour is considered honorable. Indeed, the effects of such a feeling are alrendy manifest, in the general prosperity, the rapid increase of population, the accumulation of wealth, the enterprise and activity eve where seen throughout our country, where boaily la. bour, so far from being considered degrading and the badge of slavery, is honored and respec 'ed.

I think I may say that it is one of the distinguishing features of the present age, and one too of its brightest promises, that the industrial pursuits of the husbandman and the labourer in mechanic arts are assuming an importance and dignity of rank hitherto only allotted to the favoured sons of fortune. Itliis indication of the popular sentimest is a gratifying proof that civilization and true refinement are advancing.

Though the tilling of the earth is coeval with the history of man, who, as he came from the hands of his Creator in all his primitive innocence, was adapted and destined to till the ground, yet but little is left on record since his expulsion from Eden to attest any high degree oi knowledge or scientific research into the qualities and varied adaptation of different soils for increased productions of their manifold powers. But of late years the efforts of the ablest pens, and the best store rooms of the laboratory of the chemist, are occupied in investigations, and in analyzing all the component parts of tillable earths, to ascertain and define their superior adaptation to one over another species of cultivation. Sufficient advancement has already been made to demonstrate the utility and advantage of the union of scientific attainments with mechanical force, in compelling the earth to yield the greatest amount of increase.

Although book farming and essays upon agriculture lave been too often made the theme of derision, and pronounced impracticable even by men of otherwise sound judgment, it is nov a matter of great satisfaction, that so rapid has been the progress of an awakened and enlightened public sentiment in reference to the great industrial pursuits of man, connected with the soil and kindred employments of the mechanical arts, that Agricullural Associations now number among their visitors and active participants the most wealthy, liberal-minded and best educated of our land, ocular proofs of which have been given at this our Twenty-fourth Annual Exhibition, by the attendance of his Royal Highness, Prince Arthur, the highly respected son of our noble and beloved Queen; His Excellency the Governor-General of the Dominion of Canada ; the Lieat. -Governor of Ontario, and many other distinguished individuals.

In the history of nations it will we round that in proportion as attention has been given to the healthfü, innocent and useful pursuits of agxiculture, prosperity, peace and happiness have been the attendant blessings on such employments ${ }_{3}$ and the more multiplied the owners of the soil, and consequeiutly thie smalle farmis; the
grenter has been the production, and the more secure and solid has been society.

It was not in the days of Cincinnatus, when from four to seven acres constituted a farm, that Rome was over-run with barbarians, but when large landed estates were owned by one proprietor, and worked by slaves, that the downfall conmenced; and Egypt was laid under tribute, to furnish from the fertile valley of the Nilo, those grains, which, prior to that time, were raised in abundance in her own rich soil. it is true that the fine arts of architecture, sculpture and painting have attained to great eminence, even where the taste for agricultural pursuits was not general; but their overthrow and destruction may be traced to the want of that settled and peaceful employment of the masses, which is to be found only in the independent and self relying labours of the husbandman.

It is but a natural inference from the wisdom and goodness of the Great Artificer of the universe, that the highest development of the human family is to be obtained from•pursuing, with active and intelligent diligence, that sphere of duty which, with unerring certainty, has been pointed out and made necessary by the declaration of Heaven's own word-"In the sweat of thy face shalt thou eat bread till thou return unto the ground." Though this may seem to be, as it really is, the language of displeasure, is it not a blessing in disguise? for is it not the highest wisdom and truest glory of any Leople to cultivate, honour and cherish the lifeennobling employment of honest and useful industry? And since science has upened now fields of discuvery-calling in as handmaids, mineralogy and geology, to instruct and edifythe occupation of the farmer is no ionger that menial office, associated with slowness of speech and dullness of mind, but one calculated to inspire the loftiest thoughts and noblest sentiments; as contrining more that is beautiful, varied and wonderful in the mechanism of flowers, plants and shrubs, as well as in the germination, growth, and perfection of the infinite variety of fruits and grains, all subject to harmmious laws, inviting the research and acquaintance of the humblest of the tillers of the soil. In the words of another, "The husbandman, as he gues forth to plough and sow, enters into the laboratory of the God of nature, where all around him-above, beneath-evinces design, wisdom, and goodness, challenging the highest efforts of genius, as well as exciting the admiration and gratitude of the least contemplative and unlearned." If, as it has been said, the undevout astronomer is mad, what shall be said of him who, as he walks amid flowering shrubs and"ripening fields, inhaling the sweet odours of nature's incense, does not feel that honour and dignity are associated with the cooperator in Heaven's laws in bringing to the Wighest state of perfection all that is pleasant to the eye, agreeable to the taste, and useful in the economy of man's abode? I have often thought that, notwithstanding the necessity that exists for accumulating property, in order that we
may provide for our households, and those that are dependent upon us, and assisi in maintain. ing the numerous benevolent and other useful institutions of our country, that there is too great a desire to acquire wealth, which, when obtained, will not-as experience has too often 1 prove. -give to the body ease, or to the mind $\|$ true enjoyment; but, on the contrary, in too many cases, the improper use of it has ruined not only the nobleman, but some of the noblest of our felloy-creatures. The intense anxiety to become rich is a great and standing obstacle to both moral and invellectuad improvement, and calculated to smother our noblest aspirations, as well as the finer feelings of our nature. Wealth, sought for its own sake alone, narrows the mind and depraves the heart; but when pursued, as Burns says,

> Not for to hide it in a hedge,
> No for a train attendant;
> But for the glorious privilege
> Of being independent: -
and not for that selfish mutive only, but to diffuse happiness around us, extending comfort and relief where charity demands, and to employ it to embellish and beautify the land and the social state, its pursuit enlarges and quichens the understanding, and emnobles the heart. A man who has such motive: for action is ever employed usefully and succ ensfully, and life to him is a perpetual feast. The farm is of less importance than the farmei ; the mind, as well iss the soil, must receive a due share of attention, and virtue and refinement be cultivated, and the moral elevation of our sountry effected, ere we can expect the blessings of peace and true prosperity to be ours as a people or a nation.

With many of our farmers and mechanics there seems to be a great want of attention to architectural beauty and rurai tastefulness, and other refining and home-adorming attractions.
In travelling from Kingston to Londou this summer, I thought how little time and labour it would take for the owners of some hundreds of those cold and dreary-looking places, that biighteyed children and loving mothers were obliged to call home, to make them look more like places worthy of so sweet an appellation.

An increased attention to landscape and ornamental gardening, to the cultivation of fruits and flowers, shribs, \&c., in many parts of the Province, would add greatly to the attractive pleasantness of our homes, and the comfort, the health, and the moral excellence of our families. And much of this is the appropriate work of tender hands and loving hearts-

> "Whose eyes are bright with pleasure, Whose brows with wreaths are crowned."

With proper means and encouragement our wives and daughters can do much toward beautifying the grounds around our dwellings, and making our homes lovely with bright blossoms and sweet flowers-changing a dreary aspect into one of inviting beauty and cheerfulness,
uniting our families more closely in the bonds of fanily affection, and turning their hearts in i adoration to the grear Author of mature's lovely and wonderful productions-" "To look through pature up to nature's God."
Hlowers heighten the enderrments of home, and cxert a refining and subduing influence for good on the tender and expanding minds for rhose proper development and cultivation parents are eminently responsible; they reach the purest fountains of feeling in the human heart, and embellish the crowning felicities of life.

> "There is a language in each flower That opens to the eye; A woiceless, buta manic power, Dotb in earth's bosoman lie."

Tis strange that any one should be willing to forego the grateful and sympathetic pleasure that their presence always affords.
In looking over the show-grounds to-day, and while examining the numerous improved farming inplements, and the many labour-saving machines, I felí into a sort oî reverie ; my mind reverted back to the year 1817, when I first became a resident of Upper Canada, and settled in old Lennox and Addington, where I saw the farmers at work with their one-handled wooden plough, (the first one your speaker owned was of that kind in 1824), the triangle wooden tooth harrow, the scythe and hook to cut peas with, and no rake hut the one worked by hand, and all other farming tools of the rudest kinds. I almost felt that I had been born some fifty years too soon to farm it to advantage, or with any great degree of cumfort. Had any person at that time been far-seeing enough to have predicted that in the year 1869, the farmer would be seen sitting upon a comfortable spring seat, riding through his fields with an umbrella over his head, enjoying the luxury of his meerschaum pipe, and cutting down more grain, or raking up more hay, than six or eight nen could then do in the same length of time with the perspiration straaming from their brows, he would have been called a visionary. Another proof that "truth is stranger than fiction." Although it can hardly seem possible, may we not fondly hope that in this progressive age, at the expiration of anlother fifty years, that the boys of to-day can then look back and see as much improvement as We can now see in the same length of time.
If new inventions continue to be "sought. out,' 'and new discoveries continue to be made, the most fertile imagination must fail to see, or even in a feeble manner comprehend, the extent of the improvements with which man will be blessed within the next half century.
In conclusion, I would say, be ours the task as an Agricultural Association, and as loyal British subjects, who revere the limited monarchical government under: which we live, and by which our civil and religious rights are fully protected, to uphold the institutions of our country, to elevate the moral standard of the body politic, and to assist in developing the vast resources of our Dominion; looking forward to
the time, and at no distant day, when not only Canadn, as now constituted, will have arrived at a high state of improvement, but the three millions of square miles of the prairies and forests of the great North-West-which is soon to become a part of our noble Confederacy-shall also give place to cultivated fields and happy homes, having, by the wise and judicious management of our Government, been settled by an industrious and intelligent people, who will cause the virgin soil of that far off country to yield its richest treasures, and the now howling wilderness to "blossom as the rose."

## ROYALTY AND VICE-ROYALTY AT THE PROVINCIAL EXHIBITION.

The tour of Prince Arthur and thie GovernorGeneral from East to West of our fairDominion, has been one continued ovation, and nowhere did the loyal enthusiasm of the Canadian people gush forth more spontancously and freely than at London, where the presence of these distinguished visitors added no small eclat to the recent exhibition. Arches and multifarious decorations, mottoes and transparencies, addresses and cheers, testified to the heartiness with which the Queen's Representative and the Queen's Son were welcomed to the hospitalities and festivities of the Forest City. It is out of the sphere of this journal to go into the lengthened details respecting the visit and reception of the Prince, which haveso fitly crowded the coiumns of the newspapers of late, and secured for them such extensive sale and perusal ; or to give in full the various addresses and replies which have been interchanged on the many occasions of the Prince's and Govermor-General's appearance before the public; but inasmuch as the royal and vice-regal visitors were the guests of the Association of Agriculture and Arts during thcir stay in London, and their presence contributed in no small degree to the surcess of the Exhibition, it is eminently proper that we should employ a page or two in chronicling a few particulars of the interesting and auspicious event.
In our July issue, there appeared a capital portrait of 'His Excellency Sir John Young, and along with it, a few details of his personal and: official history. Yet we cannot resist ine temptation to quote a paragraph respecting him which appeared in the London Acloertiser one day during Exhibition week, and formed part of that journal's narrative of the official and royal visit.
"As the official representative of the Sovereign, Sir John Young claims first attention. It is only a few months since he entered on his elevated duties as Governor General of the confederate provinces. He brought with. him a marked reputation, and has grown rapidly in

Canadian esteem. He promises, in fact, to be one of the most respected and useful servants of the Crown in this quarter of the Empire. He has all the sagacity that usually results from mature years, superior faculties, and long and delicate experience in prominent official situa-

H. R. H. PHINCE AHTHUR.
tions. Though bom in Bombay, of Trish parentage, Sir John Young was educated for the English bar, and for a considerable time had the honor of being a member of the British Parliament. Onder Sir Robert Peel, he was Secretary of the Treasury ; in Lord Aberdeen's Guvernment he held the appointment, of Chief Secretary for Freland. Afterwards he was sent out as

Loud High Commissioner of the Ionian Islands; and hiad vacated the Governorship of New South Wales immediately before his arrival in this eountry. In these varied and responsible offices he conducted himself with manifest judgment and ability, and, as evidence of the esteem mith which he is regarded by Her Majesty for his services, he wears sereril orders, which haie a
real significance when borne by one of his mark and reputation. Since his arrival in Canada his most delicate undertaking has been the visit to Nova Scotia, and the wisdom, tact, and frank ntterances of His Excellency have to all appearance acted like oil cast upon the waters. The opportine anival of Prince Arthur on the same scene his undoultedly co-operated with Sir John Young's influence in reviving the good feelings of the Blue-noses, and in rendering inportant aid to thie Union cause."
We are indebted to the journal just named for the use of the accompanying excellent wood cut of lis Royal Highness, Prince Arthur, and for the following interesting details respecting him:
"Prince Arthur is the seventh child and third
son of Her Majesty Oueen Yictoria son of Her Majesty, Queen Victoria. He was born on the 1st May, 1850, and is thus in the trentieth year of his age. Reports have described him as goodlooking, intelligent, and quite effable in his manners, qualities which have already made hini a favorite in the country. He was named after the late Arthur Wellesley, Duke of Wellington, who stood god-father to the Prince at the baptismal font. His third name, Patrick, was bestowed on him in compliment to the people of Ireland. While Her Majesty's second son, Alfred Einest, was froin his birth destined to the navy; the young Prince, about to be stationed at Montreal, was as early set apart for the military service. It was, moreover, his orn choice, so soon as he could make a preference, and he appears in the Dominion to perform duties in connection with his regiment, the Rifle Brigade, in which he holds the rank of Lientenant. At a banquet given him in England before his voyage across the Atlantic, his health was proposed by the Duke of Cambridge, tho addressed him as 'Gunner Prince Arthur Patrick,' and in the course of his ineat reply, the Prince used these words: 'It has been the greatest pleasure of my life to be associatcd with the Royal Artillery at Woolwich, and I trust to continue worthy of the good feeling which you have evinced towards me this evening. It is now seven years since I commenced to study for the army. From the time I was a very young boy it was nyy earliest and earmest wish, my highest ambition, to become a Woolwich cadet. The hope lias been fulfilled. I have the honor and pleasure of serving in both corps-the Royal Engineers and Royal Artillery--and I am now bound to Canada to join other corps.'
Ever since he landed in British Norih America, liis progress westivard has been 2 hearty and enthnsiastic ovation, partly for his own sake, but chielly, and of this no oue will be pruder than himself, because he is a son of our beloved Sorereign, for in no place is she regarded with.more affection than on Canadian territory. These shouts of welcome, and all the delicate efforts made to render the visit of the Prince in every respect agreeable to his feelings, are the natural and orerflorring tokens of the people's attachment to the throne of England and their inter-
est in the welfare of the reigning family. The Prince of Wales beheld similar manifestations a few years ago, and Prince Arthur will carry home with him to Windsor the tale that our loyal devotion continues fresh and unabated."

## THE SOCLAL, MORAL, AND RELIGIOUS ASPECIS OF THE RECENT PROVINCIAL EXHIBITION.

The Christian Guardian in an admirablè article on the late Exhibition, brings out some higher viers of it well worthy of being taken by an enlightened and religious people. We have much pleasurein transferring to our columns the following extracts from the article in question, and in giving the sentiments they contain our hearty endorsement:-

The Exhibition was, in all respects, a great success. In former times the warlike Indian displayed the scalps of his enemies as the trophies of his power, and more civilized warriors still display the cannon or banners won from the foe; but here we beheld the trophies of nobler victories, and the signs of truer progress. The trophies of the warrior are only the melancholy memorials of selnish ambition and cruel and inhuman strife; but in these annual exhibitions, we behold the results of honest toil, of growing civilization, of mechanical skill and application, and of mental culture and refinement, which prophecy of a better and brighter futuro.
"In the Pentateuch, the land of promise is glowingly described as 'a land of wheat, and barley, and vines, and fig-trees, and pomegranates; a land of oil olive and honey; a land wherein thou shalt eat bread without scarceness, thou shalt not lack anything in it; a land whose stones are iron, and out of whose hills thou mayest dig brass.' But it was impossible to survey the rich treasures of forest and mine, of manufactory and field, here spread in vieri, without feeling that even this description would fali far short of fitly characterizing this goodly land which the Lord our God his given us. 'The lines have fallen unto us in pleasant places, and we hare a goodly heritage.'

Although the Provincial Fair brings together a greaier number of vampires and impostors of all grades, than are ever brought together on any other occasion in Canada, yet there can be no doubt that these shows tre on the whole lighly beneficial to the country. Men engaged in agricultural pursuits, and in the various mechanical and manufacturing departments, see that is being done by others in the same department of industry ; and those who are most backward are prompted ond instructed by the example of the more incelligent and successful. The best method of attaining success in each kind of work is made pablic; and eren the most successful may learn something from those who are behind them in some respects. Buit
especiallyare these Exhibitions valuable, because they vindicate the dignity of honest toil. At a time when so many seem to think useful toil a disgrace, and genteel idleness respectable, it is salutary to see the highest in rank, and the most cultivated in mind paying willing tribute to the hardy workers in every sphere of industry, as the benefactors of all clssses of society, and the grand army of peace, upon whose intelligence and industry we depend for the development of the rich resources of our goodly national inheritance. Nor can the derout Christian survey, from year to year, the bountiful provisions of Divine Providence, to supply our wants, without being prompted to exclaim :-'O bless the Lord, for $\mathrm{H}_{\mathrm{e}}$ is good; for his mercy entureth forever!'"

## ENTOMOLOGICAL SOCIETY.

The annual meeting of the Entomological Society of Canada was held on Wednesday evening, September 22, Mr. W. Saunders, of London, Vive-President, in the chair. The reports of the Secretary and Treasurer were read and adopted. The latter document'showed a small surplus on hand. The Secretary made a statement of the progress and success of the Canadian Entomologist, a monthly, published in Toronto, and edited by the Rev. C. J. S. Bethune, M.A. The following officers were elected for the ensuing year :-President, Prof. Croft, Toronto University; Vice-Presidents, E. B. Reed, London, and B. Billings, Ottawa; Secretary-Treasurer, Rev. C. J. S. Bethune, M.A., Credit; Curator, W. Osler, University College, Toronto; Council, Messrs. J. Petit, Grimsby; G. J. Bowles, Quebec; W. Cowper, Ottawa. The following were elected Honorary Members:-Baron R. Ostensacken, Rus Zoological Museum, Cambridge, Mass.; Dr. Asasian, Consul-General at New York; Dr. Hagar Fitch, New York. Corresponding members elected: Rev. Dr. Morris, Baltimore, Md.; F. G. Sanborn, Boston; 0 . Urban, Albert Míseum, Exeter, England. The meeting then proceeded to examine a number of specimens previous to adjournment.

## YORK AND TORONTO UNION EXHIBITION.

The United Exhibition of the West Riding of York, Toronto Electoral Division, and York Township Asricultural Societies, was held in the Queen's Park, Toronto, on the 29th and 30th of September. The weather was magnificent, and the general character of the display and attendance of visitors concluted to make the experiment of amalgamation successful, though the show in some departments was not worthy of the occasion. The collection of fruits and flowers was, as usual, coming from some of the best professional and amateur horticulturists in the Pro-
vince, first-class in quality, and very beautiful. The field products were good in roots, particularly mangolds, and ridiculously limited as to grain, though good samples were shown of each kind. Of live stock there was a considerable number of entries, and some good animals, among which were Mr. George Miller's Short-Horns, but no suitable accommodation was provided for them. The cattle wandered promiscuously, as in a pasture. The pigs were not unloaded, but remained boxed up in the waggons that bruught them to the ground. The sheep alone, of which there were some fine lots, were provided with pens. There were some good horses. Among the farm implements (very few in number) were Eyre's drain-tile ditcher; a sod-presser (exhibited at Hamilton, in 1867); by Atkinson \& Bros., Fitobicoke; a plough with mouldboard hardened by a special process, shown by B. Plowman, Weston: and Wilcox's triple roller. There was much in the Exhibition to interest and instruct, and we commend tine plan of uniting several societies for one good show; but to ensure proper accommodation and arrangements, it is necessary that all entries should be made by an early and fixed date, prior to the show, and not allowed on the very day of exhibition, and up to the last moment of the judges making their examination. -Globe.

酎-Renorts of the New York State Eair, and of other foreign exhibitions, are in type, but unavoidably laid over until our next issue.
zo- The Vaughan Agricultural Scciety's Fall Exhubition will be held at Berwick, on Tuesday and Wednesday, the 26 th and 27 th dass of October.

## EDITOR'S BOOK TABLE.

Messrs. Harper and Bros., of New York, have sent us sample copies of the following nerf publications of theirs :-
Five Acres Too Mrch, by Robert B. Roosevelt, pp. 296. This is a clever, but somewhat overdone, burlesque on country life, by a New York lawyer, who, captivated by the pictures of rural pleasure and profit, dramn in such books as "Ten Acres Enough," tries his hand with five acres, makes a great many ludicrous mistakes, and finds that country life, to use a homely phrase, "is not what it is cracked up to be" by certain enthusiastic authors and editors of rural publications and periodicals. Perhaps it is not more overdone in the way of burlesque, than scme of the works referred to are in the way of enlogy. It will be a vade mecun of misdom and raillery to
all that class of persons who decry the country, and laud the town. A respected member of our family, who is ationgly inclined in that direction, regards tinis book as a prize, and will, we fear, metaphorically speaking, often throw it at our innocent head.
Edropean Vineyands, by William J. Flagg, pp. 332. An interesting account of vine-cult.re and wine-making, as practised in the chief orape-growing districtis of Southexn Europe. The author writes from personal observation, and gives the result of "three seasons in European vineyards." Evidently an intelligent and observant man, he presents his readers with a large amount of useful information. We dissent in toto, howerer, from his concluding sdvice. After giving directions how to make rine, and laying no smail stress on having it "thorvughly red," he says:-"Drink that wine, you and your wife and your little ones; drink it for breakfast, drink it for dinner, drink it for supper; drink it, in short, whenever you are dry, or wet, or cold, or tired. * * * Thus cas you obtain in abundance a purer drink than water, a cheaper drink than sugared water, and a healthier one than any. Thus may you bring tranquility and cheerfulness beneath your rooftree, and conientment and affection to your freside-live a menry life, and

> -Die a good old man.'"

We have read infinitely better advice in a far older and wiser book than "Flagg on Vinejards," couched in the following terms:-"Look not thon upon the wine when it is red, when it gireth his colour in the cap, when it moveth itself aright. At the last, it biteth like a serpent, and stingeth like an adder."
Sigets and Sexsations in France, Geryant, And Switzerlanti ; or experiences of an American journalist in Europe. By Edward Gould Buffum, pp. 310. A very readable book of modern travel, by an "American journalist" not unknown to fame, and author of "Six Months in the Gold Mines," \&c. Some idea of the work may be gathered? from the following enumeration of a ferr of the topics treated in it: -"The Bubbles of Champrgne," "Fiombourg and Baden-Baden," "A tramp in the Bernese Oberland," "The Foundling Hospital of Paris," "A Chamber of Horrors," "The Clozerie de

Silas," "The Quartier Latin," "The Catacombs of Paris," "Religious Freedomin France," etc.

The Wedding Day mi all Ages and Countries. By Edward J. Wood, author of "The Curiosities of Clocks and Watches from the Earliest Times," and "Giants and Dwarfs," p.p. 299. The title of this book sufficiently sets forth its nature, and the subject, need it be said, is one of such universal interest, that surely this publication will not be a drug in the niarket.

My Davgeater Elefor, p.p. 257, in pape: covers. A cosy, quiet, interesting, instructive, new novel.

Cord and Creese, p.p. 199, in paper covers. A terrible, tragical, "blood and thunder" style of novel.

The Dodae Club, or Italy in 1859, p.p. 133, in paper covers. A ridiculous, farcical narrative of travels in France and Italy, performed by a company self-styled the "The Dadge Club," from their purpose of "dodging" all those humbugs and swindles which usually make European travel so ruinously expensive. So absurd a publication, that we can't muster patience enough to read it.

The author, Mr. or Dr. "W. H. Smith," we don't know which is his proper title-also authon of "Canada, Past, Present, and Future," has laid on our table Part I. of

Suitr's Favily Physiclas, a work which is to be issued in 8 parts, at half a dollar each, to subscribers only. Each part will contain 64 pages, demy octavo. We do not feel qualified to criticise this work. It treats upon subjects on which no man should venture to speak or write, who in not qualified by a thorough medical education. We can ai least confiaently praise the typography, which is the work of our orm excellent publishers, Messrs. Hunter, Rose $\& C_{0}$.

Mr. T. J. Day, of Guelph, sends us the October numbers of -

Bow Bercs, which he sends by mail, post paid, to any address in Canada at $\$ 2.25$ per annum.
Sudday Magaznie, sent in like manner to any P.O. in the Dominion for $\$ 2$ a year. A new volume begins with this number.
Good Words, \$1.75.

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## AGRICULTURAL IMPLEMENTS AT THE <br> LATE PROVINCIAL EXEIBITION.

Nothing shows mure conclusively the progress agriculture is making, from year to year, than the number and effectiveness of the implements by which the farmer's toil is lessened, and his various operations expedited. The time will never come when farming will cease to require muscle and sweat, but there is an increasing demand for head work, nut only in the management of soils and crops, but in the use of those mechanical appliances by which the soil is worked, and crops are put in, harvested, and prepared for market. No one could survey the large and varied collection of farm implements on exhibitive at the recent Provincial Show, without feeling proud at once of the mechanical and agricultural condition of the country. Not only were the implement classes included in the prize list for the most part well filled, but a large number of extra entries were made, many of which were highly commended by the judges, and deemed worthy of extra prizes. Our space admits of but a brief enumeration of the more noticeable objects in this department. The question where to begin, is, however, a bewildering one, for the implements were not arranged on the ground according to any rule, whether of nature or art. If we take the most conspicuous articles, we shall begin with the threshing-machines; if we obey the order of nature, we shall begin with the ploughs, or more properly perhaps the stump extractors, of which apparently effectire ones were exhibited by $J$. Scott, of Vienna, J. Douglass of the same place, and Gilmer \& Berkholder, of Lowville. Taking things in their natural order, therefore, we proceed to speak of the pluughs. Of these, there was a very full assortment.

Geo. Gray, of London, shnwed a number of ploughs of both iron and wood, a double-mouid plough, a three-horse double furrow wheel plough, and a gang plough-a fine assortment.

Ploughs of various styles, too numerous for us to enumerate their points of difference, were also shown by H. Kirkbride, Goderich; R. Leon, Stratford; G. Williamson, Seaforth; J. Humphrey, Stratford ; J. Adair, St. Mary's; J. Lauric, Sarnia; J. Ohisholm, Paris; D. McTavish, Clinton; R. Tindall, Stratford; George

McSherry, Ingersoll ; B. C. Battram, Shakespeare ; Jnc. Morley, Thorold; G. Fair, Milbank; ©. Thain, Gualpl: W. Yiollon, Chathan; J. Walker, Westminster ; d. \& O. McClary and Stewart, Bruce \& Co., London.
J. W. Neads, Bowmanville, and J. Laurie, Sarnia, showed double-hiorse French ploughs.

The only subsoil plough we observed was shown by J. Morley, of Thorold. There was a very excellent display of cultivators, also of horse-hoes and scuffeis, hoth wood and iron. The chief exhibitor of two-horse iron cultivaturs was T. Clarke, Hampton; and of wooden implements of the same class, A. Anderson, $G$. Gray, James \& Walker, Stewart, Bruce \& Co. of London; J. Laurie, of Sarnia; and Farewell \& Co., of Hamiltou. Single horse-hoes or cultivators were shown also in considerable number and variety by the same makers, and by $G$. Gray, G. Murray, Geo. White, D. Davis, all of London; and by John Watson, of Ayr ; P. Thompson, Arva; and J. Laurie, of Sannia.
H. Colliard, of Gananuyne, showed an excellent combined machine, it cultivator, horse-hue, and double-mould board plough, all in one: Harrows, both of wood and iron, were present in force. H. Collard, of Gananoque, shored his section harrows in two, three, four, and fire sections. Others of various kinds were shown by W. Stewart, Devizes; T. Stacey, St. Thomas; H. Howard, London; and B. C. Battram, Shakespeare. J. Fraser, of Teeswater, exhibited a chain harrow, quite a novelty in this country, though common in some parts of Scotland. F. Robeits, of Bradford, showsed a thistle-cutter, capahle of being attached to either a plough or cultivator. Seed-drills were numerous, the chief exhibitors being W. Walker, Westminster; J. Forsyth, Dundas ; Adams, Wisner \& Co., Brantford; Iundy \& James, Uxbridge; Maxwell \& Whitlaw, of Paris; and last, but not least, J. Watson, of Ayr, whose grain drill took a first prize at the last two New York State Fairs. A corn-planter, ingeniously contrived for its purpose, was shown by D. McCullock, of $\}$ Kemptville, and a machine for sowing seel, rolling, and spreading plaster, hy Switzer, of Norwich.

Of horse makes, there were sereral varietiesJames Sontas \& Co.; of Chatham, showing an excellent one, with spring steel teeth, a seat for the driver, and well arranged lever power for lifting the rake, and otherwise controlling the machine. W. Craig, of Nilestorn, showed one without a driver's seat; and Huffernan, Wright, \& Close, of Napance, cxlijited a machine for harvesting peas in connection with a horse rake.

Two ditching machines were on the groundone which has been sumetime before the public, made by Gilmer $\mathbb{E}$ Berliholder, of Lowville and another, a more recent invention, Carter's patent, manufactured by Dyre Bros., of Rich mond Hill. The linst-nancel has already ron some favour at egriculural exhibitions in the: U. S: It was in operation on the Fednesdas morning, outside the Exhibition grounds; and gave evidence of what it could do, to a number
of intorested spectators. What can we say of the eeapors and mowers but that their name was "legion?" Assuredly, there was never so large an airray of them at any provious Provincial Exhibition. A bare list of them is well-nigh out of the question. Ball's Ohio is evidently a favoorite machine, and was shown by several makers. There vere ailso the Ball's Ohio and Buckeye Combined, Wood's Patent, Dodge's Self-Raker, the Cayuga Chief, Marsh Harvester, and Ayr Combined; a pretty full list, when their various modifications and cumbinations are talken into account. The exhibitors in this very full class were Massey, of Newcastle ; Haggert Bros., of Erampton; Paston, Tate \& Co., Port Perry ; Harris \& Son, Beamsville ; Conway, of Whitby; J. L. Green, of Waterford ; L. D. Sawyer \& Co., Hamilton; J. Lawrence, Palerme ; J. Watson, of Ayr; Stewart \& Bruce, London; J. Forsyth, Dundas; James Elliott, of London; Gale \& Co., St. Catharines ; W. \& F. Haggert, St. Mary's ; and Noxon \& Brothers, Ingersoll.
The Canadian farmer, who cannot bo suited rith a mower and reaper by some one or other of the gentlemen just named, deserves to mow his hay with a scythe, and reap his grain with a sickle, without the least pity for his hard fate. The threshing machines, from their size and brilliant painting, made a truly imposing array, and there can be little doubt that, as in the case of the last-named implenents, our farmere have an excellent opportunity for supplying themselves well. The chief exhibitors in this class were Eastwood \& Mann, lingersoll ; McPherson, Glasgow \& Co., Fingal ; J. Watson, Ayr; Hargert Bros., Brampton (who "loyally named the thresher they exhibited "Prince Arthur"); Maxwell \& Whitlaw, Paris; E. Leonard, LonCou: Hyslop \& Roland, Chatham; last and least is to size of machine, Joseph Sharman, of Stratford, whose "Little Giant," capable of being worked by four horses, and taking up but a small amount of room, is well worthy the attention of prosperous farmers, who can keep a stationary thresher on their own premises.
The space we can devote to this department. of the exhibition is well-nigh exhausted; not so, however, our imploment notes. A combined. lay-rake and elevator, shown by H. Sells, of Tienna, is deserving of mention, if only as a benevolent endeavour to free the farmer from the back-aching toil of loading hay with the fork. But it ip said to work well, and for the sake of poor suffering humanity, we hope it does. Horse pitchforlss of various shapes and sizes were shown, most of them attached to derricks, and in actual operation. $P$ Grand, Clinton; S . Raymond, Ringwood; and G. W. Abrams, Gananoque; were the leading exlibitors in this line. J. Augur, of Point Abino, showed a contrivance for lifting the whole lond of hay, bodily, on to a stack or barn mow. A similar contrirance mas exlubited by James Dennis, of New. marlet, who had on the greund the nodel of a barn, constructed on very instionious and economicaj principles, and especially adapted for the micas.prinaples, and especialy adapted for the
convenient and expeditious unloading of hay.

A number of irm and wooden rollers were shown, the most noticeable being a triple roller, made by S. Wilcox, Glandford, so contrived as completely to cover the ground, and readily to surmount all obstacles. Other rollers were shown by H. McIntosh, Birr; and A. Kennedy, Strathallan.
H. J. Lennox, of Lynden, showed a potatodigger," which works with revolving teeth, that throw out the tubers. A much simpler implement, for the same purpose, however, was shown by J. Watson, of Ayr. It is a kind of plough, with a cuw-catcher attachment in front, and can hardly fail to do its worke thoroughly. Straw-cutters were exhibited by J. Watson, Ayr; Maxwell \& Whitlaw, Paris; J. Jackson, Seneca; and a novel affair for the same purpose by E .' Price, of Vienna. A machine for making ditch tiles, and capable of turning out 2700 tiles per hour, was shown by D. MceIntosh, London. Farm waggons were in very linited supply, shown by Edgcomb \& Boston, of Iona, and John Plummer, London. The last-named exhibitor also showed some serviceable farm carts. Farm gates and sections of fence were exhibited by W. James, of Springford ; J. Calcott, St. Thomas ; S. Washburn, St. George ; C. Jones, London; R. Beattie, Ionn; and L. Wisner, Roseville. A clover huller and cleaner was exhibited by L. D. Sawyer \& Co., Hamilton; a grain cracker, and corn and cob cr: sher by $C$. H. Waterons \& Co., Brantford ; and sawing machines by Stewart, Bruce \& Co., and E. Leonard, London; T. \& J. Wallser, Brampton; and B. Mitchell, Millbrools. A. Tait, Dewart, showed grain cradles and hay rakes; J. Coombs, Saltfleet, barley forks; and Dr. McLinn, Scotland, hay racks. Fumps were shown in great variety by Bowes \& Sanderson, Sebringrille; J. Cousins, London ; N. Reynolds, London; and Geo. Harding, Toronto.

## FIELD PRODUCTS AT THE RECENT PROVINCLAL EXHIBITION.

The chief interest in this department always connects itself with the samples of wheat, not only in view of the fect that this is pre-eminently $a$ wheat-growing country (note the fact, ye old country people who have lately been lyingly told that Canadians can't grow wheat, and live chiefly by lumbering), but also because of the :iberal prizes offered in the class of fall wheat, the Canada Company giving $\$ 100$ for the best lot of 25 bushels, and the Association $\$ 40$ for the second best, and $\$ 20$ for the third best. $\Delta$ less number of entries than usual were made this year for the Canada Company's prize, for what reason we know not; aud the much-to-be-coveted honour was awarded to Mr. James B. Hay, of Waterdown, Wentworth Co., for a very fine
sample of Die. 4 wheat. ' The second prize went to Mr. J. T. Blagden, of Carlisle, in the same county, whose wheat was also of the Diehl variety. Mr. J. Smith, of Fairfield Plains, Brant County, won the third prize. The samples of two bushel entries were of good-but not extra quality, and the same may be said of the entire grain class. The specimens were fair, but presented nothing specially worthy of mention. Beside the great staple, wheat, there were bags of barley, rye, oats, field and marrowfat peas, Indian corn, timothy and clover, Alsike clover, flax seed, turnip seed, buck wheat, tares, millet, and 112 Ht bales of hops, exhibited under the head of graine. The show of roots and vegetables was exceedingly good. It has been a fine season for 1 tatoes, and, as might have been expected, they were on exhibition in great variety and of large size. There were no fewer than 105 samples of potatces, and in addition to old and well-hnown surts, there was a considerable sprinkling of new varieties. Among these were 15 lots of the justly celebrated Early Rose, and sjecimens of Patterson's Regent, Prince of Wales, Shaker Fancy, Colebrook Seedling, White Piolific, Melto, Albert's Own, Cote and Bishop's Seedling. Several of these are unknown to us, and as yet to fame. The turnips were exceedingly smooth and handsome specimens, but we have seen larger, and, on the whole, it would seem that a dropping season is not so favuurable, in this climate, to a full development of this valuable root as one in which rain and sunshine altemate. The Swedes put in a better appearance as to quality than the Whites, and both first and second prizes were taken by that county, which of all others perhaps in the Province, knows best how to grow and use the tumip-the County of Wellington. The field carrots were uncommonly good, as also were the mangolds, especially those of the Globe variety. Fine samples of Kohl Rabi were shown, a field product worthy of being more widely cultivated by Canadian farmers. Parsnips and chicory, squashes and pumpkins, were shown, also an article which it is not desirable should be either grown or used extensively in this or any other Christian country, tobacco leaf. A. Shaw, of Kingston, took the prize for the best ten pounds of "the weed," in a cured state.

## WHO OR WHAT CAN BEAT IT?

We have frequently spoken of and copied items concerning Mr. Charles Arnold's new Hybrid Wheat, and if we were to judge by the results of this year's production, we do not think that enough lins been said about it. Last week Mr. Arnold threshed the grain with the following results. On one acre of ground he sowed 30 pounds of seed, (one-fourth of the usual quantity)
and on threshing it out ho found his retum to be fifty-one bushels ind two quarts of good fair grain, veighing 61 lbs to the bushel. Of one variety he sowed 7 lbs ., and his retum was I7 bushels and two quarts.. From the above results we must conclude that as a productive wheat the new varieties being brought to perfection by Mr. Arnold exceed all other whent now before the public, and his undertaking is deserving of the greatest encouragement from the Canadian Board of Agriculture.-Paris Transcript. [Which it is not likely to get.-Ed. O.F.]

## Che Citur \$tat.

## THE IMPORTED BULL, GENERAL NAPIER.

The last importation of Shoit Horns made by M. H. Cochrane, Esq., of Compton, Quebec, was shipped from Liverpool, Aug. 7, 1869, and comprises seven first-class animals, of which the following is a list :-
"Bright Lady," a roan heifer, calved April , 1868, bred by Mr. Torr, Aylesby Manor, Lincoln. shire; "Weal Bliss," a roan heifer, calved Nur. 19, 1867, also bred by Mr. Turr; "Isabella Sovereign," a roan heifer, calved Feb. 2, 1807, bred by Mr. Barnes, Westland, Muynalty, Ire. land; "Forest Queen," a red heifer, calved Oct. 25,1867 , bred by Mr. Hugh Aylmer, West Dereham Abbey, Stokeferry, Norfolk; "Queen of Diamonds," $a$ red and white heifer, calved Feb. 24, 1867, bred by Mr. J. Lynn, Shoxton, Grantham, Lincolnshire; "General Napicr," a roan bull, calved May 2, 1868, bred by Mr. Torr, Aylesby Manor, Lincolnshire; and "Senator Third," a red and white bull, calved in Januarr 1869, bred by Mr. T. Crisp, Butley Abbey, Surfolk.
These fine animals arrived safely at their destination, and but for the narrow, stupid policy of the Board of Agriculture, would have graced the recent Provincial Show with their presence. Is there in the Dominion of Canada a man of ordinary common-sense and average patriotism, who would not have held up both his hands for the suspension of any rule that stood in the way of such an addition to the display of live stock at the recent Exhibition? However, they are quietly cropping the rich herbage of Hillhurt Farm, and spite of petty jealousies and " red-
tapeism," will be heard from another day. Meantime no official bain is potent enough to prevent our putting these animals on exhibition in these columns, and we have much pleasure in presenting the readers of the Ontario FarxER with a splendid engraving of "General

Napier," and append heroto his pedigree, from which it will be seen that his parentage is of high rank in Short-Horn annals.
"Buel General Napier," roan, calved May 2, 1868, bred by Mr. Torr, Aylesby Manor, Lincolnshire.


Got by Lord Blithe, 22126.
Glossary, dam by Booth Royal, 15673.
Guide Book, gr. d. by Dr. McHale, 15887.
GuidingStar, g. gr. d. by Crown Prince, 10087.
Qleamy, g.g. gr. d. by Fanguard, 10994.
Glitter, g.g.g. gr. d. by Londesboro', 6142.
Glowworm, g.g.g.g. gr. d. by Rannuculus, 2450 .

Goldein Locks,g.g.g.g.g.gr. d. by Remus, 4932. Golden Beam, g.g.g.g.g.g. gr. d. by Prince Comet, $1,342$.
g.g.g.g.g.g.g. gr. d. by Count, 170.
g.g.g.g.g.g.g.g. gr. d. by Constellation, 163.
g.g.g.g.g.g.g.g.g. gr. d. by Young Favouxite, 255.

General Napier's sire, Lord Blithe, is own
brother to the celebratea prize cow, Lady Fragrant, winner for two years in succession as the best cow at the meetings of the Royal Agriculturai Society of England, and at the great Yorkshire Society, 1868-9, besides twenty prizes and cups at various county and local shows. Lurd Blithe's dam and female ancestors, for four generations, were all by pure Booth bulls ; Dr. McHale, 9 nuted prize bull in Ireland, was bred by Mr . Barnes from pure Boot'. blood on each side. Crown Prince begot most of Mr. Booth's prize animals for many yaars; he was only let for one season to Mr Torr, and never used at any other places, except Warlaby and Aylesby. Guiding Star, his daughter, was one of the finest cows ever bred at Aylesby; her portrait will be found in vol. XV. of Coate's Herd Book. Vanguard was hired for six seasons by Mr. Torr, and was bred by Buckingham from the Isabella family. Londesburo', was a son of Mr. Bodth's Tom-boy, and MIr. Botterill's admired cow, Martinmas Maid, by Easthorpe.

## THE LIVE STOCK AT THE LATE PIROVINCIAL EXTIBITION.

This department of the show, though comprising many first-class specimens in the several classes, was not, as a whole, quite up to the mark of some previous exhibitions. There was indeed no particular shortcoming among the horses, which were perhaps represented as well as usual, but the unfortunate ruling out of the valuable stock owned by Mr. M. H. Cochrane, of Montreal, the limited extent to which Mr. Stone exhibited, and the absence of all Mr. Christie's herd from the show ground, could not but have an effect on the cattle classes. The sheep, likowise, were perhaps less numerous than usual, certainly less numerous than on some previous occasions, if we except the Merinoes, which never mustered so largely or so respsetably at a Provincial Show as on this occasion. The flock of Mr. George Miller was, we understand, excluded from exlibition on the same groand as the herd of Mr. Cochrane, and this alone would suffice to make a perceptible gap in the sheep ranks. We have seen a more extensuc cillection of F .gs, especially in the large Barkshire and Yorkshire classes, than were to
be beheld at the late London Exhibition, though the porcine display, so far as it went, must be acknowledged to have been a creditable one. The poultry show was good in quality of birds, and full as to numbers.

## HORSES.

This branch of the exhibition comprised many very deserving animals, and may be said to have been quite up to the average of previous shows. Some beautiful specimens of carriage horses were made to display their truly fine points to crowds of admiring spectators, who seemingly could not be wearied with gazing pt the noble creatures as they coursed round the driving ring. It would be hard to beat the first prize carriage stallion, especially when it is considered that he is onlya three year old colt, and has therefore a careerof improvement before him. A "Royal George" colt, George III., does honour to his paternity. In contrast to this fine animal, but equally fine in his class, was the first prize draught stallion, monstrous in size, but very perfect and symetical in development, and being yet only four years old, will, if he does well, be yet more elephantine ere he has done growing. There is a wise ten. dency among our farmers to increase the bull and weight of their draught horses, and this is an absolute necessity if the plough is to go down, as it ought to do, beam-deep. In the heary draught section, there were no less than fitty: four entries, and many of the animals exhibited are imported from England. Without particulart specification, it may be olsserved that, the agri. cultural horses in general were excellent, espe. cially those fit both for drawing a loaded waggon, or taking a carriage along at a leisurely jog tot -a very useful style of horse for farmers keep. ing but a single team for all purposes. Blowd horses put in but a meagre appearance, then being but fourteen entries in all. We are ur. doubtedly behind hand with the thorough-bred classes, as compared with the other styles id horse-flesh. Road and carriage horses are gent rally well represented, and this was the case at the recent exhibition. The entries were numer ous (upwards of two handred), and some of the animals would be hard to beat anywhere. Tre must not admit mention of some as fine brod mares, colts, and fillies in the several classes, al ever graced any Provincial Show.

## CatTLEE.

The Short-Horms, of course, took the leadi the cattle classes, not merely because they art fashionable, for fashion is for once what it rer seldom is, sensible and reasonable, in putti: this valuable breed into its position of distir), guished honour and preference. It is not ment thot the pure bred Skort-Horm is an intrinsidult fine and choice animal, but that its qualtiesd peculiar excellence are so strongly possessed th: they are imparted in a very hig' degree to $t^{4}$ grades. Proof of this was furnished in the 5 cattle classes at the present exhibition. Thet steer, owned by MIr. S. Armstrong, of Eramar
and the fat cow, owned by Mr. Henlock Young, of Guelph, both high Short-Honn grades, were much and deservedly admired. We refer our readers to the prize list for the leading specimens of Short-Horns. The chief exhibitors in this department were Messrs. J. Miller, of Brougham; J. Snell, of Edmonton; F. W. Stone, of Guelph; G. Wood, Trafalgar; J. S. Thompson, of Whitby; Colonel Taylor, of London; and Major Greig, of Beachville. It is to be regrotted that only two herds competed for the Prince of Wales' prize, and not a few think the judges made a mistake, and gave the priza to the least deserving herd of the two. We report the opinion without ondorsing it. Some excellent specimens of Devon cattle were on the ground, the chief exhibitors being Messrs. Peters and Pincombe, of London; Spencer, of Brooklin; Rudd, of Guelph; Foley and Main, of Bowmanville; and Howe, of Thornbury. The Ayrshires were about as good as usual, which is not bestowing very high praise upon them, fur Canadian breeders have never distinguished themselves very greatly in this direction. The Callumays put in a highly respectable appearance, which would have been enhanced if Mr. Thomas McRae, of Guelph, a prominent breeder of those "black republicans," had not allowed four of his best animals, destined for the Fiair Ground, to be shipped away to Massachusetts just before the exhibition. The purchaser of them is Mr. John Giles, of South Farminghara, the celebratod Jersey breeder. Mr. W. Hood, also of Guelph, had a fine lot of Gallowrays, but did not gain so many prizes as he ought to have done. Among the fat cattle, a pair of splendid Galloमay steers showed the capabilities of this breed for beef-making. Mr. Stone is pretty much alone in his glory with the Herefords, a breed of cattle not at all apprec'ated in this country as it deserves to be. The show of working oxen mas not up to the mark. The first prize pair (Short-Horn grades), though good, might, we fancy, be surpassed in any county in Ontario, if the best were turned out for competition.

## SHEEP.

Some really fine sheep were shown, and without any wish to be invidious, we would single out Mr. John Miller's Cotswold ewes, Mr. F. W. Stone's lambs of the same breed ; also the Southdowns 0 wned by the gentleman last named, and some Leicesters owned by, we don't kiow Who, as especially fine animals. We see symptoms we liave noticed before, of the Leicesters and Cotswolds mixing together, and if our sheepmen don't look out, it will's soon be hard to tell "which from t'other," as it is the tonsorial process aloze distingaishes some Leicesters from the Cotswolds. As we have said; the Merinoes putin a better appearance than ever before at a Provincial Fair, but eyen these improved speci-

pigs.
Better-Yorkshires than those of James Bradie and Son, Belleville:; better Suffolks than those of Mr. Main, of Trafalgar: Better Berkshires
and Essex than those of Mr. Roach, of Hamilton, and Mr. Fisher, of Hyde Park, were seldom if ever shown at a Provincial Exhibition. When you have said that, you havs taken the cream off the pig department, as these gentlemen were the leading exhibitors of really good swine. Has the trichinze disease frightened people from raising pigs? or why is this part of the show so deficient? More empty pens were to be found in the pig quarter than anywhere else. Ham and eggs, bacon and greens, pork and beans, we fancy vill still be wanted, therefore wo trust our farmers will not grow discouraged in pigraising.

## poglitry.

This was a truly interesting and highly creditable part of the show, most of the classes having no representatives but really worthy ones. The buff Cochins must be an exception, and almosit the only exception to this remark. Of course, the London poultrymen carried off the chief honours, and like some of the splendid male birds they showed, won the privilege of crowing on their own dunghill. Messrs. J. Bogue, W. and J. Peters, and J. Lamb, of London; J. S. Earues, St. Thomas ; W. H. Van Ingen, Woodstock ; and G. S. Rykert, St. Catharines, whose melancholy and sudden death threw a shadow over the show, were the chief exhibitors in this department. The judging, done according to the "Standard of Excellence," was, we believe thoroughly impartial, and gave satisfaction to all except to one individual, unfortanately a denizen of London, who roared at the judges in a manner more befitting a lion than a lamb.

## bees.

Of these there was a lively display, both native and Italian, and the bee-men tolled in the diffusion of useful knowiledge, and the sale of patent hives, until their throats were sore. The competition was, however, of the most gentlemanly and honourable description, and the rivals of the day on the show ground were all brothers at night at the Bee-Keeper's Convention. The chief apiarian exhibitors were Messrs. F. H. and H. M. Thomas, of Brooklin ; S. H. Mitchell, of St. Mary's, and D. Reikie, of Wiffria.

## ONTARIO BEE-KEEPERS' CONVENTION.

## FIRST SESSXON:

Pursuant to ñotice previously given, the:Ontario Bee-keepers' Convention met on Tuesday evening, September 21st, at the Sons of Temperance Hall, Xondon. Upon motion Mr. John Cary was called to the chair, and Mr. A. C. Atwood acted as Secretary. The following questions were discussed :-
"Will it pay to feed bees:early in spring with a view to early ewarming:"
"Is there any danger of Canpda being overstocked with bees?" "What is the best method of artificial swarming?"'

In reference to the first question, the almost unanimous opinion was that early swarming might be expedited by artificial feeding, and that in view of the importance of getting early swarms in thir climate, it would pay to feed for that purpose.

On the second subject, it was agreed that, taking the country as a whole, there was no danger whatever of over-stocking, at least for a very long time to come, but that in the vicinage of towns and cities, only a limited number of hives could be kept unless resort was had to special crops for bee forage.

After considerable discussion, the last question was laid over till next evening.

It was moved by the Rev. W. F. Clarke, seconded by Mr. Burgess, that a Committee be appointed to draft Constitution and By-laws for a permanent Bee-keepers' Association.

There was a large and respectable meeting, and after very animised and interesting discussions, the Convention adjourned to meet at the same place on Wednesday evening.

## SECOND SESSTON.

Pursuant to adjournment, the second session of the Ontario Bee-Keepers' Association took place in the Hall of the Sons of Temperance, Richmond Street, London, on Wednesday evening, September 22 nd. The Committee on the Coustitution and By-Laws then reported as fol-lows:-

The Committee appointed to draft a Constitution and By-Lawse, and recommend officers for a permanent Bee-Keepers' Association beg leave to report as follows :-

## constitution.

Art. 1. That this organization be called the "Ontario Bee-Keepers Association."
2. That the object of this Association shall be to promote the interests of scientific and practical bee culture.
3. That gentlemen paying 50 cents yearly shall be considered members of this Associationladies to be admitted to membership free of charge.
4. That the officers of this Association shall consist of President, vice-President, Secretary, Treasurer, and a committee of five, three to form a quorum-who shall De appointed annually.
7. That this Association shall meet. annually at the time and place of the Provincial Fair, or oftener, at the option of the ex-committee.

## BY-LAWS.

The order of procedure at the annual or public meeting of the Association shall be, first, the transaction of business, and then the discussion of questions pertaining to the science and practice of bee-keeping.
2. Any member of the Association shall be entitled to send notice to the secretary of a question or questions for discussion at an approaching annual or other public meeting.
3. Questionspreviously prepared, and of which public notice has been given, shall take prece-
dence of otiner subjects of disoussion at the meetings of the Association.
4. Any person proposing a question shall, if present, be expected to introduce the subject.
5. No person shall be allowed to speak longer than ien minutes at one time on any question.
6. The Association shall have the power to change or add to the Constitution or By-laws at any annual meeting, notice of such change or addition having been given at least 24 hours before hand.

It was then moved and carried, that the above Constitution and By-laws be adopted.

It was then moved, seconded and carried, that the Rev. W. F. Clarke, be president of this Association ; Mr. J. H. Thomas, vice-president; Mr. A. C. Attwood, secretary-treasurer; and Messrs. Mitchell, St. Mary's, Bennett, Cobourg, G. W. Lawrence, Stratford, D. M. Reekie, Wil. frid, and E. M. Thomas, of Brooklin, directors. Eighteen persons then enrolled their names. The discussion of the question was then resumed. After a lengthy and pleasant discussion of the question, what is the best method of artificial swarming? it was moved and canzied that it bs laid upon the table.

The question, has foul brood ever been discovered in Canada 3 was next submitted. As several mombers answered in the affirmative, it was then resolved, that cases of undoubted foul brood having been reported, this Association would strongly urge the total destruction by fre of all stocks and hives affected by this dread scourge of bee-keeping, so as to prevent it spread. The question of the best size of lives for Canada was then discussed at considerable length, when it was moved and carried, Thats hive containing about 200 cubic inches is the best for Canada.

## third session.

Pursuant to adjournment, the Ontario Bee Keepers' Association met on Thursday evening, September 23rd, at 7.30 o'clock, when the min. utes of last meeting were read and approred: Several items of business being disposed of, the question, "Do bees consume less and come out better wintered in a uniform cell or in a rarr temperature ?" was discussed. After a brief discussion it was resolved that bees winter bestins uniform cool temperature. The question, "What kind of plants will honey the best in excessicelf wet weather?" was next considered. After : short discussion it was resolved that in the oping ion of this, Association, the locust, currant, rasp berries, and berry plants in general, sweet clorea. and American bee-plant, are the best plantsfof producing honey in wet weather. The questiog " What is the best method of securing the mas surplus honey afterhaving doubled yourswarms? was taken up. After a spirited discussion it ms resolved that the best method of obtaining sul plus honey is by using large boxes on new hires and taking honey from old hives by the hons extractor. The question, "Is the centrifug], comb-emptying machine as useful as has bex. represented ?" was then considered. After serem replying in the affirmative, it was resolved-Th:
wr regard the Honey Extractor favourably, and recommend its favourable use. The last question brought bufore the Association was--s' Is a plain hive the best for successful bee-keeping in Canada ?" After an exceedingly interesting discussion a resolution was passed with one dissentient, that a movable comb hive, and not a plain hive, is best for successful bee-keeping.
After having enjoyed three very interesting and profitable sessions, with an average of sixty intelligent bee-keepers, thirty five of whont enrolled themselves as members, the meeting adjourned to meet again at the time and place of the next Provincial Fair.

## STOCK SALES.

Mr. Johin Sneli's Sale.
This came off as advertised, Soptember $29 t h$. The attendance was good and the bidding spirited. Of Short-Horns, seven cows and heifers were sold at prices ranging from $\$ 90$ to $\$ 200$; and 8 bulls from $\$ 100$ to $\$ 225$. Hon. George Brown was the purchaser of three animals. The CotsFold rams brought from $\$ 16$ to $\$ 65$ each; and the ewes fram $\$ 9$ to $\$ 16$. The Leicesters brought from $\$ 8$ a-piece for ewe lambs to $\$ 105$ for the highest-priced ram; and the Southdowns about $\$ 11$ each. The sheep were not all sold. The Perkshire hogs brought from $\$ 9$ for a four month's old boar to $\$ 85$ for a sow with nine pigs.

## Me. F. W. Stone's Sate.

Mr. Stone, of Moreton Lodge, Guelph, had a sale of sheep September 30th. The attendance mas not so large as might have been expected, and the fewness of the bidders led to the withdrawal of some of the lots. About 40 Cotswold rams and 20 Cotswold ewes were sold, the rams at prices ranging from $\$ 20$ to $\$ 80$, and the ewes at about $\$ 40$ per pair. Very few Southdowns tras offered. Most of the purchasers were from the other side of the lines.

## Mr. Josepif Kirby's Sale.

This took place, according to notice, at Esquespg, near Milton, October 1st. There was a rood attendance, mostly of neighbouring farfers, but the competition was by no means brisk. Tprards of fifty Leicester and Cotswold sheep fere sold, the rams at from $\$ 16$ to $\$ 46$ each; im lambs $\$ 10$ to $\$ 40$ each; Leicester ewes $\$ 27$ § $\$ 37$ per pair ; ewe lambs $\$ 12$ to $\$ 37$ per pair; jotswold єwe lambs $\$ 13$ to $\$ 3 \approx$ per pair. Two hort-Horn bull calves were sold at $\$ 95$ and $\$ 100$
respectively, and three Short-Horn heifer calves at $\$ 51, \$ 61$, and $\$ 81$ respectively.

## SHORT-HORN CATTLE SALE IN ILLINOIS.

We beg to call attention to an advertisment, which appears in our present issue, of an important sale of Short-Horn Cattle which is to take place at Berlin, Ill., on the 27 th inst. A Chicago correspondent on whose judgment we can rely says, "The Stock to be offered for sale, at Grove Park Farm, is superior."

Poitraits of Prize Animars.-Mr. J. R. Page, the celebrated stock artist, was at the recent Provincial Exhibition, at our instance, taking sketches of prize animals, from which engravings will be made for future numbers of the Ontario Farmer. We had hoped to have received one or two in time for this number, but though we are late in going to press by two or three days, the non-arrival of the engravings compels us to defer their publication. The next and following numbers will be embellished with them.

## (6)

## FRUIT GROWERS' ASSOCIATION.

The annual meeting of the Fruit Growers' Association of Ontario was held in the City Hall, Loudon, on Wedtaesday evening, September 22, Mr. W. H. Mills, President, in the chair.
The Directors' Report was submitted as follows :-

## DIRECTORS' REPJNT.

The Directors .: the Fruit Growers' Association, in presenting their Annual Report, have much pleasure in stating that during the past year the society has held three successful meetings for the exhibition of fruit, and the discussion of questions relating to the varieties best adapted to our climate, and the best soils and mode of culture. The October meeting was held at St. Catharines, at which there was a very large display of grapes and other fruits; the winter meeting was held in the City of Hamilton, and was well attended; and the summer meeting was held at Galt, at which there was a fine display of strawberries, and some of most extraordinary size.

There leas been some increase in the number of members during this year, as will bo seen by the Treasurer's Report, he having received one hundred and seventy-six dollars for fees of mem-
bers this year, ageinst one hundred and fiftyseven dollars from the same source last year. A complete list of the members of tha Association is appended to this report.

The discussions of the several meetings have elicited much valuable information. These discussions have been very fully and carefully preserved, and will be embodied in the printed report which will be given to the members. The report of last year was, by an arrangement with the Commissioner of Agriculture, printed by tho Department of Agriculture and sent out from thence to the members of this Association, thereby securing to them the entire Agricultural Report in addition to our own. Some very considerable number of typographical errors found their way into that Report which very much mar its appearance, and in some degree its userulness, occasioned by the pressure of public printing at the close of the Session. The blemishes, it is believed, can be obviated hereafter.

The Commissioner of Agriculture has very kindly issued a series of questions prepared by your Directors, relating to the different fruits of their culture, and required the different Agricultural and Horticultural Societies to return answers thereto. These replies will be collected and a full report prepared therefrom, which, it is believed, will be of great value, a copy of which, when printed, will be given to every member.

In addition to the prizes offered by the Association, by resolution passed at the meeting of Feb. 4th, 1869, the Directors at a meeting of the Board, held on that day, offered a prize of $\$ 30$ for the best essay on the cultivation of the raspberry, blackberry, strawberry and currant, and a further prize of $\$ 15$ dcllars for the second best essay. The time limited for the reception of these pessays, 11st September, 1869, having passed, and only two essays having been received, your Directors have extended the time to 1st February, 1870, with leave to the writers of the essays received to withdraw them and substitute others if they wish.

At a meeting of Directors held at Galt on the 6 th of July, a prize of twenty-ive dollars was ofiered for the best collection of insects, injurious or beneficial to the various kinds of fruits, provided always that the prize should be awarded only to a really meritorious collection.

At the same time your Directors, feeling that it was highly inportant that this Society should be represented at the meeting of the American Pomological Society, held in Philadelphia on the 15th of this month (September, 1869), appointed Mr. Charles Arnold a delegate to attend the same. This report will be published, and form a part of the annual report.

Your Directors cannot close this report without intimating to members that if they would each take a little pains to call the attention of their neighbours to the work of this Association, and show the importance of sustaining it, the number of its members might easily be doubled in the course of thenext year, and this Society enter upon a course of prosperity and usefulness of incalculable benefit to the country.

The Directors also desire to intimato to the Associntion that if gentlemen lenve their homes and devote their time to the interests of the Association in attendance upon the meetings of the Board of Directors, it is but right that their reasonable and necessary expenses incurred in attendance upon such meetings should be paid by the Association. We believe the state of our finances, and the manifest justice of the case, will fully warrant such an' appropriation of our funds, and we therefore advise that a further bylaw be enacted by the Association authorizing the Treasurer to pay such expenses.

All of which is respecifully submitted.
21st September, 1869.
The Report was adopted.
The Treasurer's Report was next submitted, showing the recejpts for the year to be $\$ 526$, and the expenditure $\$ 31520$. A balance of $\$ 455$ re. mained from the previous year, which leaves $\$ 666$ on hand. The report was adopted.

The President then delivered the following

## ADDRESS.

Gentlearen,-At thelast annual meeting, held in the City of Hamilton, I was unable, through illness, to thank you for the proud position you then honoured me with. This duty, however, was performed by my friend, the Rev. R. Burnet, who always regards with care his absent friends. Through your kindness then I am per. mitted this opportunity, and I may add, the ertreme pleasure of addressing you upon the subject of Horticulture-of all others the dearest to me-because I feel the objects we have in vier, and the pursuit we are engaged in, trying to build up a public taste for fine fruits by persuad. ing all throughout the land to bring within their own reach and culture these healthful and delicious products, is, without exception, one of the most elevated and Christianizing occupations we, as a body, can possibly pursue, inasmuch as it affords the proper lind of food to those who are desirous to learn their Author's mandates in the evolution of matter. Besides, it multiplies our social joys, and ministers to the comfort of the: human race; draws us away from the sordid motives of selfishness, soothes us with benign influence in the hour of sickness, and thus we reach the vale of earthly vanity, and feel, as we-jour ney onward, the silent shadows from the trees we love. By this pursuit also, we learn some of the laws of Creative power and Omnipotent fores displayed in every germ of life. He that enters with his whole heart bent on the culture of fruit and flowers for the inward heppiness and plessure they afford him, gives evidence of ligh moral ains. We may safely confide to the in tegrity and kindness deeply graven in his charl acter. In this way it comes to be acknowledged that an organization of fruit growers is regarde as an association of high rank and to be consider. ed a useful and worthy member thereof is guaranty of purity of purpose It is, therefore a source of great pleasure to me to be able to realize that our pleasant and profitable disciry sions are the means of establishing a taste in this
direction ; and a harmony of sentiment, as mark$e d$ in its character as in the good that must, of necessity result to our country in morals and health.

As it is ono of tho pleasant duties of the President to give an annual adduess on some subject relating to the objects of the Association, I may here premise that it is not the scarcity of subjects from which one may mould a discourse suitable for such an occasion, for they "exist in the heavens above and on the earth beneath," the difficulty arises from an ignorance on my part of how best to select and adjust the material to promote the object in view; at the same time $a$ conviction forces itself that this is not an occasion on which I should weary your attention with any long discourse or dry accumulation of facts to prove such theory as I may advance. I shall, therefore, only offer a fow remarls in a mmbling way, under the head of Arboriculture, by drawing your attention to a few important facts: first, that the planting of native forest trees in belts around cultivated farms, modify the conditions of climate by governing to a great extent the degrees of temperature and rainfall. That our health and length of years, and the sanitary condition of the country, depend on the influences these noble forest trees exert upon them. They stand, if I may so express it, as gigantic capillary ducts, for the daily attraction and repulsion of fluids, set in motion by the force of the sun, which raise these fluids gently from, and again return them to the bosom of the earth, and in this way they are made the instruments in regulating and graduating the perrnauency of rainfall. While inhaling carbonic acid vapours, and condensing them in the shape of woody fibre as so much stored up heat for our future use. They daily accumulate and emit that pure oxigen eloment without which human life could not exist.

These then are some of the good effects we shall secure by making an artificial planting of forest trees, and affording them the necessary protection until they become established. So intimately connected and depondent are we upon the forces of nature which surround us that no great depth of comprehension is required to see that God has made it a matter of necessity that man should study these forces to enable him to secure his health and happiness, which should be the principle aim and end of his sojourn here. To know these laws, enables him to behold and appreciate the unbounded munificence of the "Author." And it necessitates a sequence that those people of the earth who take the higher degrees in this branch of science are the "elect."
SirJohnHerschell says that "thereis evidently something distinct from mere local situation, which determines the element of climate. It is chiefly in man's clearance and allowance of arborescentvegetation, and in the artificial drainage of the soil that his influence on these relations is perceptible." But, after all, nature gives us the finest example on so grand a scale that, our attention is arrested and made to draw the comparicon betmeen the evil effect produced by the
deadly sirocco which swept the barren deserts of Libia, as conclusive with those life-giving winds which sustain millions of animal life through the deep primeval forests. Thus, looking upon the general effects of a desert as death, I am led to conclude that the individual effects which go to make up a general result, must lead toward, or, in the line of such result, otherwise it would never happen. These inferences then lead to the conclusion that a time must bo brought about in this, as in any country, by individual efforts in clearing away the original woods when the same shall beceme so far uninhabitable as to be destructive to the advancement of civilization. But the evil effects produced by this depletion of the woods in the temperate zone, would differ essentially from those of the tropics. They would show themselves in various forms from time to time by endemic scourges.

Statistics kept in England for some years back, conclusively prove that the average of deaths is much greater in sections where the land has been quite stripped of its woods, as compared with those where they have been retained. I am necessitated to mention these facts to show the bearing they have upon every product brought under man's protection, for they are all inter-related. I can well recollect the time when round abont Hamilton, before the great destruction of the forest took place, fine peach trees were grown, but for several years back this fruit too has been neglected, owing to the uncertainty of the crop. This present season, however, has been an exceptional one, having the conditions remored that once produced it in such abundance, so that where this tree's life has been preserved, we see it this season in bearing.

Under the head of Arboriculture, in the Scottish Farmer, for July 21st, 1869, as sensible article appears, on improving the climate of great Britain by the planting of trees. Probably no where else has science been brought to bear on agriculture with so much effect as here ; and it is there coming to be understood that the planting of forest trees must precede ere agriculture and fruit production can succeed.

The Shate laws of Illinois and Iowa provide for tho encouraging of the growth of trees and hedges, and for the protection of fruits. Exemption from taxation to a certain extent is the reward for planting forest trees, either by the acre, or along the highways in cultivated sections of the country. The arguments brought to bear on this subject, in securing these laws, are forcibly set forth in the Scottish Farmer. I cannot do more at this time than drary your attention to this important subject, leaving such evidence as may be brought to bear on it to the search and investigation of those among you who feel interested.
My advice is to plant forest trees and contmue to do so from year to year, without waiting for any action of the Legislature in offering a bonus. We shall indeed have a compensation without this as the work progresses. But to anticipate the reply any inconsiderate person may make to. this advice, by saying that we have more forest
trees than is good for us, which require removal before agricultural pursuits can be carried on, let me answer, I would not have it understood that I ccademn clearing amay the forests, for this is the first step to agriculture and horticuliure. But I would urge each to take a hint from nature, and not fall back un her methods altogether, for is she not the parent of marshes, and in many cases of noxious gasses, which produce fever and other diseases. We should respect nature's laws, but not fullow her in all things. It should be burne in mind that in proportion as the forest is removed, there is a decrease in rain-fall, and streams dry up. To such an extent may this go on, that in course of time it will become a serious question for our descendants to deal with; and this unfortunate state of things may be brought about irrespective of artificial underdrainage, which should never be charged with producing droughts, or the evil effects arising therefrom. I consider it one of the most efficient levers to successful agriculture and fruit-growing-the most extensive can do no harm, taken together, with a proper distribution of trees, the finest results will be accomplished.
By observations recently made in England, two facts have been clearly established, namely, that the general regularity of rain-fall, and local irregularities, are governed by local influences, in respect particularly to tine aroa of surface occupied by trees. Although man may nct be able to create the material of light, heat, and moisture, he can certanly modify, adjust and combine these to serve lis purposes. Now, in this important matter of tree-planting, with which these materials are so intimately related, it behoves us to take warning from the suffering of other countries, and bring into play not only individual effort, but a legislative or national action to counteract the evil of over-clearing, which cannot be remedied in a quarter of a century or more. Nor can it strictly be considered an individual nation's interest. The planting and preservation of trees of one country concerns that of another; for the disturbances in the one must effect the other. Climate concerns the Whole community, and protection from its injurious effects is one of the duties of Government, and is one of the many reciprocal relations each orre to the other. To my mind it seems clear that these natural infuences continually impel to the belief that there must be a unity of interest, and whatever action is taken to keep in harmony with these laws, it will be found with those who comprehend the relations and co-relations of matter and mind.

I may say that artificial planting of forest trees should be secured, progressively, in a certain ratio, compared with the destruction of the forests, for by this means will be kept up those essential conditions of regularity in rain-foll and temperature, without which all human effort torard successful fruit-growing will be umavailing. For it is the reliable permanency in nature's forces which secure to us such rast advantages.

Again let me thank you, gentlemen, on ratiring from the presidentinl chair, for the honour
conferred upon its occupant, and in making this farewell I must say, at the risk of appearing egotistical, that there is pleasure in store for me when thought shall revert to this period of mg life, and with it there will always come a glow of honest pride in having been connected with this Association, and in the belief that my humble ability had rendered some little toward establishing a taste for fruit culture among the people of Ontario.

A cordial vote of thanks was tendered the President for his address, and he was re-nominated by Mr. Saunders for the same office but declined.

The officers for the ensuing year were then elected and the meeting adjourned.

## HAMIITON HORTICULTURAL SOCIETY.

## FALL EXEIBITION.

The reputation of the Horticultural Society Exhibition, in this city, is so great, and their sucesses in the past so numerous and generally known, that the Reporter has a difficult task to do them justice and avoid the danger of over praising them, if that be possible, or on the other hand of disappointing the very rumerous readers who take an interest in these exhibitions. Wednesday's exhibition in the Drill Shed was very much like itspredecessors-in short all the fruits, flowers and vegetables that a fine soil, genis climate, and great care and skill- on the part of our amateur and professional gardeners could produce was exhibited. Commencing at the

## flowers,

There was not, yesterday, as large a dispiay as is usual, but still there was some very fine plants shown. Oî cut flowers there were some handsome Verbenas, Phloxes and Gladiolus; but, on the whole, we were not struck either with the quantity or quality of this department on the table deroted to the professionals. But a most pleasing feature was the very great excellence of the amateur table, which we feel justified in saying at this show has surpassed thei professional brethren; there being not only a laryer collection but, more generally, finer specimens and equal taste in the arrangement of the bouquets and other cut flowers. We must not, however, omic to notice some nine pots of beantiful Cockscombs exhibited by MIr. Wm. Rayner.
frutt.
Here, however, everything that was lacking in the floral department was more than compensated ? for. The long table was laden with a profusion of the finest fruit it has ever been our good for. tune to see collected together. For example, in pears, one gentleman, the Rer. Robert Burnet, ahowed 50 distinct rarieties, and all of superio, excellence, while Messrs. Jchn A. Bruce \& Ca, and Mrs. MicLaren, had collections that rent
very large and also very fine in quality, which in any other exhibition would have been quite gure to have been decorated with a first prize. Adjoining these there were apples, peaches, grapes, \&c., grown in the open air that would haye shamed the most hardened American Emigration Agent from uttering a word against our climate, then we had specimens of the Osage Orange, . We believe the first ever fruited in Canada, shown by Messrs. John A. Bruce \& Co. Plums that seemed bursting with luscious sweetness ; grapes that made one's teeth water, and that although beyond our reach we dared not call sour; and all the other varieties of fruit for which our district are so justly celebrated.
vegetables.
Tro hundred and forty or two hundred and fifty feet of a wide table literally crowded with regetables, must plead our excuse for not attempting a description of this department. Suffice it to say, that there were big potatoes, big cabbages, big cauliflowers, big onions, and big and fine everything that gardens will grow Fith the most careful attention aud highest cultivated knowledge.-Spectator.

## HORTICULTURAL PRODUCTS AT THE ILATE PROVINCLAL FAIR.

We are compelled, very reluctantly, to make buithe briefest and barest mention of this department of the Fair, owing to the crowded state of our columns this issue. The garden products Fere a very conspicuous and attractive feature of the show, especially the vegetables and fruits. The entries of garden vegetables amounted to the large total of seven hundred and fifty-six, and most of them were remarkathly well-grown specinens. Of no department, however, have Te greater reason to be proud, than of the fruit, of which there were five hundred and eightythree entries. While all the classes were good, the pears and grapes were sapecially fine. Proof nas giren, if needed, to the most sceptical, that Canada is indeed a splendid fruit country. Iñ ai all practicable, we will do this department of the Exhibition more justice in our next issue.

## APPLE SAMIPLES.

Mr. Thomas Hooper of Columbus, has our thanks for very fine specimens of the following rarieties of apples:-Harkin's Green, South Ham Redstreali, and Fill Basket. They were grown from grafts imported from England, and seem well adapted to the climate of this conntry.

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## THE HARVEST IN ONTARIO.

We have just passed through a very peculiar season, which will be long remembered by the people of Ontario, and a large portion of our Dominion. The epring was somewhat late, accompanied by a low temperature and frequent rains; conditions that were more or less characteristic of the succeeding summer and autumn. We have no precise meteorological data before us, but as a matter of ordinary observation and remembrance, the moist and cloudy skies, and moderate heat of the season now drawing to a close, must be regarded in several respects as of an exceptional character. Indeed it was a common thing to hear people remark, "how mucn the weather is like that of the old country." In general, crops suffer more frequently in this country from drought than from excessive pet and cold ; and-the improper extent to which the clearing away of the forest is being carried on in the older settled portions of the country, necessarily tends to intensify the aridity of the growing season. The present year, hewever, from esuses which we are unable to explain, has been distinguished by a superabundance of rain and a delightfully cool temperature, and it is an interesting inquiry, what has been the effect of thest meteorological conditions on the general harvest.
It is unorortunately extremely difficult, if not absolutely impracticable, to procure precise information on this subject. The crops havo been later than usual in coming to maturity, and in some districts but little threshing has yet been done, a necessary test in order to draw accurate and reliable conclusions. For the present we must remain content with a ferv statements, founded on the numerous reports that have appeared from time to time in the public press, and on information received from an extensive personal intercourse and correspondence with leading agriculturists in diffgrent sections of the Province. The fow brief remarks which wo have to offer must be looked upon as general and approximative, with no pretensions whatover to minute accuracy, which at present is simply umattainable.

From as careful collection of facts as we have been able to malse, the following statements of the principal cereal crops are probably not far from the truth :-Fall wheat may be regarded as varying from 18 to 30 bushels an acre; spring wheat; 15 to 28 ; oats, 30 to 00 ; barley, 28 to 40 ; and peas, comprising the choice as well as common varieties, from. $16^{\text {' }}$ to 30 bushels per acre. Ryo is but little cultivated, except on the lighter and poorer soils, and will range from about 15 to 25 or 30 bushels per acre. In this statement the minimum in a few places has been further reduced, in the case of wheat especislly, by insect depredation, and mildew or rust; while in others, owing to better farming or superior soils, the maximum has been exceeded. As, for example, in some parts of the north western section of the Province, including portions of Bruce and Grey, Wellington and Simcoe, winter wheat suffered, mosit sererely by rust, in some instances ajmost destroyed, while even spring wheat in some cases fared but little better; both hinds being also affected by the midge. This too was the case to some extent, on much smaller areas, in a few other parts of the Province ; still, as a whole, the growth of wheat will be considerably larger than that of last year. The quality of fall wheat this year will be inferior to that of last, but spring wheat of the present season will prove much superior in quality and immensely greater in quantity. Barley too is much heavier, but in consequence of of the wet it is generallylow in colour, but onlyina few cases was it so much damaged in the harvesting as to injure materially its malting quality. Peas, early somn in rich land, ran too much to haulm, and sometimes rotted when beaten down in contact with the moi . ground; but, on the whole, the crop is beyond an average, and the quality good. Oets are generally a very good crop, the grain being unusually plump and heary. The season has been most unfavourable to Indian comn, which requires a summer and antumnal temperature several degrees higher than we have had this year to bring it to perfecion. Upon dry, warm soils, however, the fine, warm weather at the end of Soptomber and beginning of October has very much improred appearances, and in such situations a tolerable crop, after all, may be gathered. Owing to the
moist character of the season grass has been abundant, and the yield of hay heavy, particularly on new meadows, ranging betwieen $1 \frac{1}{d}$ and 2 tops per acre, the latter figure being exceeded in several instances. The quality is very various, badly injured by wet in some cases, in others but little affected, while a considerable amount has been saved in excellent condition. Live stock will not suffer next winter from any deficiency of this lind of provender; and stras of all kinds is most abunäant. We may notice, in passing, that much of the injury done by showery weather to the hay during ihe process of curing might have been prevented in many cases by the exercise of more attention, incurring some little additional trouble and expense. The curing of hay, owing to our usually bright and warm sunshine, is a pretty rapid and certain process. Unless the crop be excoptionably heary, very little is done after the grass is cut than to rake it into rous and gather it into the barn or rick as speedily as possible. A similar. remark will apply to the grain harvest; in this, as in hay-making, our farmers are generally strangers to the anxiety and systematic care and patience which characterize these operations in the moist and fickle climate of the British Islands. However, our people would unques. tionably promote their own and country's in. terest in seasons like the one just past, by copsing a little closer ihe agricultural practice of the old country. It was a fortunate circumstance that during the grain harvest the temperature was unusually low, or serious damage murt hare resulted from sprouting. As it was both haj and grain were, to somxe extent, put into the barn in a damp or imperfectly cured condition, a circumstance that cannot otherwise than unfavourably injure the quality. We inave heard, indeed, of instances of, hay having fermented to such a degrea as to threaten slow combustion, 3 catastrophe only averted by rospening the mass, and again exposing it to the action of air and solar heat.

Turning from cereals to root crops, potatocs, it may be remarked, are generally productire, in many places to an extent almost unprecedented. The rot, however, on wetland especis!ly, is making rapid inroads, and the quantity of healthy tubers must be scriously diminished.

Cups, pink-eyes, and the older sorts generally $\|$ |appiear to bo affected the most, while the Garnet HChili, e arge size, but somewhat of coarse \|quality, seems to pass through the trying ordeal almost unscathed. The yield of the early rose ||is in most instances marvellously great, fully || justifying the high expectations that had been rraised in this respect; but we learn that in ||danp situations it is seriously affected by the Idisease; and even in dry and warm soils, to our |ipersonal knowledge, it is not entirely free. „Perhaps there was never a season in Canada |t that more forcibly demonstrated the adrantages fof under draining than the one about drawing \|to a close. We have witnessed numerous in\|ftances both of cereal and root crops in which the drained land, all other conditions being ap|iparently equal, showed a superiority in che proI|duce, both as to quantity and quality, over that which was undrained, of at least thirty or forty ||per cent., and in extremo cases considerably \#more. Seeing in matters of this sori, at least, $\|$ is believing, but notwithstanding what is now $\|$ doing in this direction, it can scarcely be said that we have yet reacheà the threshold of this most important means of agricultural improvement. With drainage where required, and a more thorough system of cuitivation, our farm |crops generally might in a few years be doubled, |and their quality vastly improved. The other root crops, turnips, carrots and mangel wurzel |are rery productive, and the growth appears to |bo healthy. Indeed the numerous specimens shown at the Prorincial Exhibition, and what we have subsequently seen at local shows, have never been surpassed, either for size or quality, fand they would occupy a high rank in any of the British exhibitions. It is a reliable criterion fof the steady progress of our agriculture, notrithstanding many ehort comings, that root collure is overy year extending, and as a consequence live stock is both increasing in number and improving in quality.
The yield of fruit has been of a varied character, in some places posiiively good, but in others only middling or decidedly inferior. Of the smaller kinds of fruit the crop was generally above an average, and this nas been the case mith apples in most of the more favoured situations. Pears have done exceedingly well in
many places, and peaches, as an open air crop, have been tolerably abundant, and of better Alavour than was anticipated carly in the season. Open air grapes, freely exposed, will not thoroughly ripen, the average temperaturo has been too lov for the requirements of this delicious fruit. In most years the hardier varieties do exceedingly well for out of door culture, which of lave has been much extended in most of the older settled sections of the Province, and wine of a very fair quality hes been manufactured from cpen eir grapes. With respect to the more useful kinds of fruit, we heard two of our most intelligent horticultmrisits, who attended the great American Pumological Convention at Philadely hia last month, remark that they saw nothing superior at that great national gathering than what was exhibited the following week at our Provincial show in Irondon. It speabs well both for the climate and soil of Ontario, and the intelligence and enterprise of our horticulturists, that the Province llas already attained a high character for producing fruit, which ministers so largely to the health and comfort of mankind.

Wa would just remark in cunclusion, that the harvest, only in the later districts just gathered in, is of a character to call forth feelings of devout gratitude to Him, without whose blessing the husbandman would sow in vain. Prices most probably will rule lower than what we have been accustomed to for tino past few years, but the greatly increased quantiiy will more than compensate for any dimination in value that we are likely to experience; and farmers will, in the long wun, consult their orn interests by bringing freely their produce to market when the demand is firm and healthy.

Notwitisstanding the unusually large number of immigrants that have reached this Provinco during the present year, many farmers have been seriously inconvenienced for want of sufficient help, and wages continue to maintain a high standard. We require a steady influx of farm labourers, and also of female servants, every year; and it is much to be desired that the Gocernment will follow up wish increasing energy this imporiant movement, already so auspiciously commenced. Productive labour is the great source of wealth, and the labourers
who come out to-day will, many of them, in a very few years become employers of labour themselves; and thus it is in a new and advancing country a constant strean of immigration should be kept flowing, and opportunities multiplied for seeady and industrious men, however poor, to rise in the social scale, and make provision for old age and the wants of their families.

TEE DEVONSHIRE PEASANT.

## (From the Globe.)

A good deal of discussion is at present going on in Engiand in reference to the condition of the peasantry. In many quarters that condition is deplorable, especially in the southern and south-western counties. Devonshire, for instance, which in many respects, such as climate, may be spoken of as the garden of the country, has, in this respect, a noticeable, bad pre-eminence. The agricultural laborer in that and some of the adjoining counties is, in general, most unfavorably situated. Sir Charles Trevelyan says, his " ordinary subsistence is not suffi"cient to maintain lim in the health and "streugth required for the efficiency, and there-
"fore, the economy of labour"; it is impossible "for him to make any provision out of his scanty "cearnings for sickness and old age; end all he
" has to look formard to is a life of unintermitted "toil, sluut out from every hupe of auvancement, "s and ending with his being pensioned as a pau"per on the pcor rates." He is made old before his time, and crippled with rheumatibin even before he is old, while throughout life he is in a state of ignorance too passive even to be called contented. Two dollars and a quarter per week without board, is abrit the average he can earn when in employment, and "broken time" is not unknown in "Merrie England." In Northumberland and Cornwali, where the wages for farm labour are highest, they never rise above five dollars :a week without board, and no hope of anything betier. These Counties are the English labourer's paradise, and yet let any one say if there is kefore working men there any such prospect as the average industrious laborer on a farm may have in Canada. We have heard some poor, foolish, spiritless fellows say that they would rather be English labourers than Canadian farmers. Every one to his taste; but there is really no room in the premises for anything but contrast. It would surely then le a kindness to all concerned to promote the emigration of such poor, down-tr idden drudges as the labourers of Deronshire. It is poor economy to have such a class at all. A poorly fed, poorly paid, spiritless labourer will pait in but a poor day's work. It is found so in England and ererywhere else. Yet farmers are so fooligh that they put every obstacle in the way of their labourers being assisted to emigrate for fear wages should rise. Fools that thej are. If emigration went on in

Devon and Dorset and other counties till wages rose to an average of four and five and six dollars a week, all would be better. The farmers would get better work and more of it, while they would have lighter poor rates to pay. The labourer would be more comfortable, and hope would dawn upon him; while education for his children would be possible, and thus the dangerous class would be so far diminished by their having a stake in the country, and something consequently to lose.
The wise and benevolent in England are seeing this, and are planning schemes of emigration on an extensive scale. We wish them all success in their work. They seem to think specially of Australia. We hara not a single word to say against our sister Colonies, and. the outlets they afford to the struggling classes. They are noble lands, and will be magnificent communities by and by. But for those who depend upon the benevolence of others ior the means of emigrating, Canada has special recommendations. Its easiness of access alone is sufficient to turn the scale in its favour, and we have room for thousands of Devonshire labourers, and can promise tnem more than two dollars and a quarter a week, aye, or its double, and, above all, the prospect of, ky and by, cultivating their own land, and in the end dying under their own roof tree, with no fear that their children shdill be beggars, or that the only refuge for their widows shall be the pauper's house, with the pauper's fare and the pauper's treatment. Those accusvomed to farm service are those specially suitod to Ontario, as an agricultural country, and while our agents tell of our resources to the dwellers in crowded cities, let them not forget the many struggling ones in England's rural villages, who know only that they are pinched, but camnot apparently, even dream of how the evil is to be remedied.

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ASSOCLATION OF MECHANICS' INSTItUTES OF ONTARIO.

The annual meeting of the Association of Mechanics' Institutes of Ontario was held in the Mechanics' Institute on Wednesday evening, September 22nd. The President, Dr. Beatty, 1 of Cobourg, in the chair. The following Insti-: tutes were represented by delegates, whose names are appended:-Cobourg, Dr. Beatty; Whitby, Joln Shier ; Galt, James Young, M.P., and David Brown; Gueiph, David McCrea; Bamilton, Robert Roy and Wm. Brown; Woodstock, W. Edwards ; Toronto, J. J. Withrow ; Brant: ford, Wm. Watt; Stratford, W. S. Bucking hem; Strathroy, Rev. Mr. Patterson; Woodstock, P. W. Sawtell.

The following report was then read:
The executive Committee of the Association in presenting their first Annual Report, beg to refer to a few particulars connected with public aid to Mechanics' Institutes in Canada.

During the Session of Parliament for the year 1847, the Toronto Mechanics' Institute, through its City Repreaentatiygs-the late Hon. Henry Sherwood, and W. H. Boulton, Esiq.,-made application for and obtained for itself, and each of its sister Instilutes, an annual grant of $\$ 200$, which was continued up to the year 1859, when all these grants rere withdrawn.
In the year 1857, the late Board of Arts and Manufactures were established, by Act of Parliament ; and in which provision was made for the affiliation therewith of the several Institutes receiving Legislative assistance. On the withdrawal of the grants to the Institutes, their connection with the Board was but little more than nominal. The Board, however, by the publication of its Monthly Journal, its free Library of reference, its annual examination of pupils of Institute Classes, and by any other available means, continued to render all the aid possible to the Institutes.
In January, 1868, it was made known to the Board, that no further grants would be made for its sustenance, but that its Library would be removed to the Parliament Buildings, Toronto, where it would atill remain open to the public for reference. At the close of the last meeting of the Board, the representatives of the several Institutes organized an "Association of Mechanics' Institutes of Ontario," which was subsequently recognized in the Agricultural and Arts Statute, and its functions described in its printed Constitution, and the proceedings of its last Meeting.

Before finally dissolving, the Board of Arts and Manufactures considered the A.ct introduced in the Legislature by the Hon. the Commissioner of Agriculture and Public Works, which, amongst other things, provided to grant aid to the Mechanics' Institutes to the extent of one dollar for every dollar subscribed, up to a maximum of two hundred dollars, to assist in Evening Class instruction; and appointed a Committee to wait upon the Commtesioner, the Hon. John Carling, to represent to him that the aid proposed should also extend to the recognition of the purchase of Technical Works for their Libraries. This was at once acceded to by the Commissioner, and provided in the Statute.
By an amendment of the late Session, these provisions of the bill were still further extended, by recognizing not orly the purchase of Technical Works, but of Works on general Literature, other than fiction. These liberal enactments have imparted new life into some of the previously languishing Institutions, enabling them more successfully to parsue their laudable objects.
The Institutes that availed themselves of the provisions of the Act, and the amounts received by them, for the year 1868, were as follows :-
Chathom ..... $\$ 10000$
Paris ..... 10000
Toronto ..... 20000
Bomantille ..... 14000
Galt ..... 5000
S'reetsiille ..... 8000
Oshawa ..... $\$ 18000$
Hamilton ..... 10000
Peterboro' ..... 20000
Dundas ..... 20000
Whitby ..... 7500
Strathroy ..... 7500
Guelph. ..... 10000
Total .....  81,61000
The claims already made by Institutes underthe Act, for the present year, to this date, are :-$\$ 15000$
Seaforth ..... 20000
Toronto ..... 20000
Schomberg ..... 3010
Meaford ..... 10719
Berlin. ..... 10348
Hamilton ..... 20000
Bowmanville ..... 12500
Galt ..... 10000
Merrickville ..... 6300
Dundas ..... 20000
Brantford ..... 10000
Oshawa ..... 200 on
Newmarkept. ..... 3000
Whitby ..... 15000
Streetsville ..... 19700
Woodstock. ..... 20000
Total. . $\$ 2,35607$
The greater number of these Institutes havecomplied with the requirements of the Act, inremitting to your Treasurer the five per cent. ofthe grants received; and the others will, nodoubt, comply on being reminded of what thelaw requires.

During the past year your Secretary has forwarded to the several Institutes copies of a catalogue of technical books, prepared for their use; also copies of other available catalogues, to assist them in the selection of books; and also informed the Institutes, by circular, that he had made arrangements for the supply of the Industrial Works published by H. O. Baird, of Philadel.phia, at a reduction of $33 \frac{8}{8}$ per cent. off the selling prices; for the Educational Department books at 10 per cent. reduction from its catalogue prices; and for the supply of other English and American. books at 20 per cent. of the usual prices.

Since the organization of your Committee, your Secretary has selected and forwarded to eight Institutes thirty eight invoices of books, a large proportion of which were oni practical and useful subjects, amounting in value:-For the


Your Committee jave made arraugements with the publishers for tie supply of the Ameri-
can Publiohers' Circular for the Institutes, if not less than twelve copies are ordered, at $\$ 2$ per copy, in greenbacks, including American postage; and for the English booksollers at \$ - per copy, including postage ; and would recommend that these works should be obtained and supplied to all Institutes paying their per centage in Legislative grants, at $\$ 1.50$ per annum for both works, thereby furnishing them with three issues per month, of lists of British and American new books published, and in course of publication.

Your Committeo would strongly urge upon the Institutes the necessity of organizing evening class instruction, in branches of study of the most practical use to their operative members; bclieving that such meens of improvement are among the most important of the several objects contemplated by Mechanics' Institutes.

The Secretary will at all times be ready to give information as to the details and success of evening class instruction, in the Institutes in which such has been established.

The Treasurer's statement shows total receipts to date $\$ 133.38$; expenditure, $\$ 120.85$; balance on hand, \$12.53; assets by b lance in hand and fees due by Institutes, $\$ 86.95$; liabilities, $\$ 7$; available assets, \$79.95.

Your Committee recommend that clause 3 of the Constitution be so amended that all Institutes paying fees on their annual Legislative grants, shall be deemed affiliatling Institutes; and that all other Insfitutes affiliating shall pay an annual fee of one dollar.

After some afiscussion on the last clause, the report was adopted. The following were elected as officers for the eusuing year:-President, Dr. Beatty, Cobourg; Vice-President, John Shier, Whitby; Secretary, Wm. Edwards, Toronto. Executive Committee, Wm. Buckingham, Stratford ; J. J. Withrow, Torouto ; David McCrea, Guelph; James Young, M.P., Galt. Mr. Edwards, at the request of a delegate, gave some hints as to the manner of conducting evening classes in Mechanics' Institutes, drawn from his experience while connected with the Toronto Institute. The meeting then adjourned.

THE ARTS' DEPARTMENT AT THE RECENT PROVINCLAE SHOW.

Want of space prohibits the attempt to describe this branch of the recent exhibition in our present issue with any fulness. The manufacturing classes bore testimony to the mechanical skill of our artizans, especially in the lines of carriage-makers' requisites, iron-foundery articles, looms and spindles. The display of sewing machines and musical instruments far exceeded any previous Exhibition. In woollen goods and ladies' work, there was also an excellent display. As, in a sense, manufactured articles, we may mention hercf, as we have not
done so elsewhere, that.cheese, both factory and home-made, butter, maple sugar, honey, beeswax, \&c., were in great profusion, and of excellent quality. In the fine arts, there were specimens enough, such as they were, but many were mere daubs and blotches, though there were not a few of real and great merit.

## MANUFACTORE OF OIL-CLOTH.

The manner of making oil-cloth, or, as the vulgar sometimes term it, oil-skin, was at one period a mystery. The process is now well un- $\|$ derstood, and is equally simple and useful".

Dissolve some good rosin or gum-lice over the fire in drying linseed oil, till the resin is dissulv. ed, and the oil brought to the thickness of a balsam. If this be spread upon canvas, or any other linen cloth, so as fully to dronch and entirely to glaze it over the cloth, if then suffered to dry thoroughly, will be quite impenetrable to wet of every description.

This varnish may either be worked by itself $\|$ or with some colour added to it : as verdigris for $\|$ a green; umber for a hair color; white lead and lamp-black for a gray; indigo and white for a light blue, etc. To give the color, you have only to grind it with the last coat of varnish you lay on. You must be as careful as possible to lay on the varnish equally in all parts.

A better method, however, of preparing oilcloth is first to cover the cloth or canvas with s liquid paste, made with drying oil in the follow ing manner: Take Spanish White or tobaccopipe clay which has been completely cleaned, by washing and sifting it from all impurities, and mix it up with boiled oil, to which a drying quality has been given by "adding a dose of ${ }^{f}$ litharge one fourth the weight of the oil. This mirture, being brought to the consistence of thin paste, is spread over the oloth or canvais by means of an iron spatula equal in length to the breadth of the cloth. When the first coating is dry, a second is applied. The unevennesses oc casioned by the coarseness of the cloth or the unequal application of the paste, are smoothed down with pumice stone reduced to powder, and ruöbed over the cloth with a bit of soft serge or cork dipped in water. When the last coating is dry, the cloth must be well washed in water to clean it; and, after it is dried, a varnish com. posed of gnm-lac dissolved in linseed oil boiled with turpentine, is applied to it, and the process is complete The colour of the vamislied cloth thus produced is yellow; but differrent tints can be given to it in the manner already pointed out

An improved description of this article, intended for figured and printed varished cloths; is obtained by using a finer paste, and cloth of a more delicate texturc.-The Painter, Gilder, and Vamisher's Companion.

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## A TALK WITE THE YOUNG FOLKS

 ABOUT THE MONTH.October is a lovely month. The air is balmy, clear, and fresh. Summer heat has fled. Cool nights make it easy and comfortable to sleep. It is pleasant now to walk abroad. The woods are very beautiful, especially where the maple abounds. Foliage is many-coloured, and all nature is in holiday attire. A sense of rest and quiet seizes you in your rambles, and the hazy atmosphere invites to day-dreams and brown studies. The season of growth and increase is over, and all things are getting ready for the sleep of winter.
The apples are now ripe and must be gathered. Our piccure shews two young apple gatherers busily at work. They. appear to be picking the fruit carefully. If apples are to be kept even for a few days it is not well to bruiso them. Wherever there is a bruise, decay begins. Rough, thoughtless folks are very apt to shake a fruit tree and then pick up.what
has fallen on the ground. This is a wasteful, bad way of doing things. Fruit should be hand-picked, and carefully stored for use. It will not only be nicer when thus attended to, but it will keep much longer.
This is a good fruit country, and every year increases the yield of apples, pears, plums, cherries, and grapes. If people would only plant good kinds and nurse the young trees properly, there might soon be abundance of fruit for everybody. It is an excellent thing for boys and girls to plant eachr a tree of their own. How pleasant to watch its growth, and how nice to eat fruit of your own tree, your very own. If young people were taught to plant trees for themselves, they would be more careful of other people's trees, and they would not be so likely to steal fruit. It is a very bad practice which some boys have, of breaking down young trees. In some places.it is almost impossible to get shade trees growing, because the boys are so mischiepous. If they had trees of their own, they would value them, and know how it feels to have them injured or destroyed.

Stealing fruit is another very bad practice which would not be so common if everybody, old and young, planted and owned trees.
What a valuable fruit the apple is. It is indeed as one has called it the "King of fruits." It is everybody's fruit. It is in season longer than any other fruit. Like the potato among vegetables, it spans the year. We have early Harvests and early Joes that are fit to eat in August, and we have Northern Spys and Russets that will keep till August comes again. How wonderful is the power and wisdom of God as displayed in the growth of these fruits. If a magician were to change water into all manner of fruit-juice-strawberries, cherries, plums, apples and pears-how astonished we should be. But God does this every year. All fruit-juices are mede from water, which passing through the pores of the plant or tree is changed by the power of the Creator from a tasteless fluid, into a luscious juice. Let us adore the wisdom and love of the Great Frather, who insuch wonderful waya, provides for the enjoyment of his creatures. He paints the lily and adorns the rose. He gives the flowers their beauty and the fruits their sweet. From Him cometh every good and perfect gift. Linworthy of his least bestownents, how grateful we should be.
"For mercies, ccuntless as the sands, which daily we receive."


